


To: Members of Dublin City Council
From: Dana L. McDaniel, City Manager 
Date: June 21, 2018

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Re: Ordinance No. 41-18 (Amended) - Amendments to Chapter 99 of the Dublin Codified Ordinances Addressing Small Cell Facilities and Wireless Support Structures within the Right-of-Way Including Design Guidelines

Summary

At the June 11, 2018 Council meeting, staff presented a summary of Ordinance 41-18 at the first reading. A number of questions were raised by Council and the following summarizes staff responses, including amendments to the ordinance and the design guidelines. In addition, staff received written comments from AT+T, which is resulting in a minor clarification in the ordinance.

Council Questions

- 1. Require evergreen plant material in screening ground-mounted equipment boxes.** This is the intent of the design guidelines and clarification has been included in the design guidelines.
- 2. Can the City limit the number of small cell tower permits that may be issued?** No, state law does not allow municipalities the ability to limit the number of small cell tower right-of-way permits issued, under any circumstances.
- 3. Can the carriers place whatever they want on a tower?** No, the guidelines are very clear in terms of the type, design and quantity of equipment that can be attached to a supporting structure, consistent with state law.
- 4. Does the proposal include requirements for removal, including notice to the City?** Yes, there is a permit type that must be submitted in order to regulate the removal of an installation. Proposed Section 99.26(N), as presented at the first reading, requires that the owner submit a request for consent to remove the small cell facility or wireless support structure when it intends to discontinue use of the facility or structure. Staff will also be adding an acknowledgement on the permit application form by which the owner/owner's rep acknowledges notifying the City when an installation is no longer functional and removing the installation per code.

As an additional response to this question from Council's first reading, the version presented for second reading includes Section 99.26(N)(3) stating that the City reserves

its right to inspect and request information, which the operator shall provide, concerning the continued use of the operator's small cell facilities or wireless support structures. This language is broad enough that the City may choose to make an annual inquiry, or a spot-check to ensure that the right-of-way is not becoming cluttered with decommissioned small cell infrastructure. This provides a backstop to the operator's responsibility to notify the City when it intends to discontinue use.

Can the City manage the number of small cell towers in a given block or location based on the cumulative radio frequency levels? Federal law precludes localities from including radio frequencies as a factor when regulating all wireless communications facilities [47 U.S.C. §332(c)(iv)]. The FCC regulates RF exposure limits. These regulations for transmitters (which includes wireless telecommunications antennas) can be found at 47 C.F.R. §1.1310.

5. **What happens to a cell tower installation on a city pole when that pole is removed?** Under ORC 4939.08, the carrier is responsible for the cost of removing or relocating a small cell tower installation if required due to a health, safety or public welfare requirement.
6. **How can we ensure that these facilities are well-maintained after their installation?** Proposed Section 99.26(J), as presented at the first reading, requires that small cell facilities and wireless support structures be maintained in good condition, order, and repair so that they do not menace or endanger the health, safety, or welfare of any person or property.

To address specifically this question from Council's first reading, the version presented for second reading includes specific provisions giving examples of poor condition (peeling paint, rust, etc.); states that they are subject to property maintenance requirements; and states the process for notice of violation, appeal right, remedy period, and abatement by the City, if necessary, at the operator's cost.

7. **Shouldn't the color of equipment and new poles be determined at the time of permitting?** Color requirements are dictated by existing City standards by district or location of the City in order to ensure consistency among right-of-way infrastructure. The design guidelines can be easily amended in the future if a new standard is established in a given district or location. And during pre-application meetings with staff, the design guidelines, including color, will be addressed with applicants.
8. **Does the City have the ability to regulate the issuance of permits based upon economic need?** No, state law and Federal standards preclude the City from taking an economic and market justification by an applicant into account when issuing a right-of-way permit.
9. **Can the guidelines be amended to remove certain residential side streets as preferred locations in the Historic District?** For the Historic District, the preference is to collocate on existing wood power poles located on Blacksmith and Mill Lanes. The

guidelines have been amended to discourage installation on existing wood power poles at other locations, but state law does not allow the City to prohibit such installations.

10. Are the guidelines enforceable? Yes, the guidelines are enforceable as they are referenced in Chapter 99 as a means of reviewing and approving permits.

In addition to these edits to address specific questions, a small number of edits have been made since first reading to correct typographical errors and improve clarity.

AT+T Letter

On June 8, 2018, an attorney representing AT&T sent a letter to the City's telecommunications counsel at Ice Miller concerning proposed Section 99.26(H), which would govern remediation of interference between a wireless carrier's signal from small cell facilities and local public safety radio services. In this letter, AT&T's representative stressed that AT&T "will work cooperatively to address any interference problems" if they arise, but suggested that the originally proposed language conflicted with FCC regulations.

The FCC regulates the steps that carriers must take to abate unacceptable interference with public safety radio signals, which have an assigned band of wavelengths under FCC regulations. The FCC defines "unacceptable interference." A carrier must respond to notification of interference within 24 hours; the carrier must then complete an interference analysis and initiate corrective action within 48 hours of the initial notification. The procedures have several mitigation options to correct interference issues. However, discontinuing the use of the carrier's facility is an option only after a showing of clear and imminent danger certified by local officials and FCC officials.

The AT&T letter suggested alternative language to resolve the potential conflict they perceived between the original language and the revised Section 99.26(H) presented for second reading. All carriers must comply with the FCC's interference abatement protocols.

Recommendation

Staff recommends adoption of Ordinance 41-18 (Amended), authorizing the amendments to Chapter 99 and the accompanying design guidelines at the second reading/public hearing on June 25, 2018.

RECORD OF ORDINANCES

Ordinance No. 41-18 (Amended) Passed _____, 20____

AN ORDINANCE ADOPTING AMENDMENTS TO CHAPTER 99 OF THE CITY OF DUBLIN CODIFIED ORDINANCES ADDRESSING SMALL CELL FACILITIES AND WIRELESS SUPPORT STRUCTURES WITHIN THE RIGHT-OF-WAY INCLUDING DESIGN GUIDELINES FOR SPECIFICATIONS AND AESTHETIC REQUIREMENTS THAT ALL SMALL CELL FACILITIES AND WIRELESS SUPPORT STRUCTURES MUST MEET PRIOR TO INSTALLATION IN THE CITY OF DUBLIN RIGHT-OF-WAY (CASE 18-011ADMC).

WHEREAS, it is necessary from time to time to amend Dublin’s Codified Ordinances to protect the health, safety and welfare of the citizens of the City of Dublin; and

WHEREAS, municipal leaders and telecommunications industry representatives collaborated on new legislation, Ohio House Bill 478 (“H.B. 478”), concerning how to regulate certain wireless equipment within the rights-of-way of Ohio’s municipalities; and

WHEREAS, the bill passed the Ohio House of Representatives by a 72-12 vote, and the Ohio Senate with a 26-7 vote; and

WHEREAS, the law received public support from municipalities, including Dublin’s City Manager, Dana McDaniel; wireless providers such as AT&T and Verizon; the Central Ohio Mayors and Managers Association (COMMA); the Ohio Municipal League (OML); and CTIA, which represents the U.S. wireless communications industry; and

WHEREAS, the bill was signed by Governor John Kasich on May 2, 2018 and will go into effect on August 1, 2018; and

WHEREAS, a cross-department team has been preparing the code amendment to Chapter 99 and the accompanying design guidelines; and

WHEREAS, the design guidelines are intended to allow sufficient flexibility to respond to and integrate future advances in small cell facilities technology as well as innovations that improve the ability for these facilities to integrate into the surrounding environment; and

WHEREAS, pursuant to proposed Section 99.25, the City Manager is given the authority to promulgate detailed small cell design guidelines; and

WHEREAS, H.B. 478, the proposed code amendments, and the proposed design guidelines do not affect existing regulations of macro-towers for wireless service or any wireless facilities outside of the City’s right-of-way.

NOW, THEREFORE, BE IT ORDAINED by the Council of the City of Dublin, _____ of its elected members concurring, that:

Section 1. Chapter 99 of the Codified Ordinances of the City of Dublin is hereby amended and shall provide as set forth in Exhibit A, attached to this Ordinance.

Section 2. Design Guidelines, as set forth in Exhibit B attached to this Ordinance, are hereby authorized, subject to amendment from time to time by the City Manager as provided by the amendments to Chapter 99 enacted by Section 1 of this Ordinance.

Section 3. The Council hereby finds that this Ordinance was deliberated upon and adopted in open meetings in compliance with the Charter of the City of Dublin and Section 121.22 of the Ohio Revised Code.

Section 4. This ordinance shall be effective on the earliest date permitted by law.

Passed this _____ day of _____, 2018.

Mayor - Presiding Officer

ATTEST:

Clerk of Council

CHAPTER 99: WIRELESS COMMUNICATIONS REGULATIONS

Towers and Wireless Communications Facilities

Section

- 99.01 Purpose and intent
- 99.02 Objectives
- 99.03 Applicability
- 99.04 Definitions
- 99.05 General requirements
- 99.06 Administrative review
- 99.07 Conditional use review
- 99.08 Abandonment of wireless communications facilities
- 99.09 Nonconforming towers or wireless communication facilities
- 99.10 Temporary wireless communications facilities
- 99.11 Architectural review

Small Cell Facilities and Wireless Support Structures within the Right-of-Way

Section

- 99.20 Purpose and intent
 - 99.21 Applicability
 - 99.22 Definitions
 - 99.23 Application required
 - 99.24 Application review timeframes and process
 - 99.25 Small cell design guidelines
 - 99.26 Standard conditions of permit approval
 - 99.27 Safety requirements
 - 99.28 Recovery of costs
 - 99.29 Severability
- 99.99 Penalty

TOWERS AND WIRELESS COMMUNICATIONS FACILITIES

§99.01 PURPOSE AND INTENT.

- (A) The purpose of ~~this chapter~~ §§99.01 through 99.11 is to regulate the placement, construction, and modification of towers and wireless communications facilities to protect the health, safety and welfare of the public, while at the same time not unreasonably interfering with the development of a competitive wireless communications marketplace in the city.
- (B) The city's intent is to encourage wireless communications service providers that seek to further the following city priorities:
- (1) Co-locate on/with other existing towers/structures/facilities or locate on existing structures.
 - (2) Require new towers and other related structures to accommodate multiple users wherever practicable.
 - (3) Locate towers in the least obtrusive locations and manner using present and evolving technology.

- (4) Minimize adverse health, safety, public welfare, and visual impacts through co-location, siting, design, and construction, while upholding the purposes and objectives of this chapter.

§99.02 OBJECTIVES.

The following are the city's objectives regarding wireless communication regulations:

- (A) To comply with the Telecommunications Act of 1996, as amended, including any subsequent rules and/or rule interpretations by appropriate state and federal agencies and/or courts.
- (B) To work proactively with wireless communications providers to ensure rapid and reliable deployment of their services/technologies, while minimizing negative effects on the city.
- (C) To ensure that the location of towers and wireless communications facilities in the city provide appropriate wireless communication coverage consistent with these objectives.
- (D) To allow, under certain conditions, appropriate city-owned property and structures to be used for wireless communications facilities.
- (E) To minimize adverse visual impacts of towers and wireless communications facilities through careful design, siting, landscaping, and innovative camouflaging techniques.
- (F) To promote and encourage shared use/co-location of towers and antenna support structures as a primary option rather than construction of additional single-use towers.
- (G) To ensure towers and wireless communications facilities are soundly and carefully designed, constructed, modified, maintained, and removed when no longer in use.
- (H) To ensure to the maximum extent practicable that towers and wireless communications facilities are compatible with surrounding and nearby land uses.
- (I) To ensure to the maximum extent practicable that proposed towers and wireless communications facilities are placed in locations that are designed to preserve adjacent natural settings and in a manner consistent with existing and planned development patterns.

§99.03 APPLICABILITY.

- (A) All towers, antenna support structures, and wireless communications facilities, any portions of which are located within the city, are subject to ~~this chapter~~ §§99.01 through 99.11, unless such facilities are small cell facilities or wireless support structures located in city right-of-way, in which case §§99.20 through 99.29 of the Code shall apply. Nothing herein supersedes the applicability of Ohio Revised Code §4939 to small cell facilities and wireless support structures in the city right-of-way. Underlying zoning district regulations and other provisions of the Code shall still apply to wireless communication facilities when not superseded by §§99.20 through 99.29 of the Code, or §4939 of the Ohio Revised Code. Any wireless overlay zone shall not apply to small cell facilities and wireless support structures in the right-of-way. In the case of conflict with other provisions of the Code, with the exception of §§99.20 through 99.29 of the Code, the provisions of this §§99.01 through 99.11 shall control. Wireless communications facilities and antenna support structures shall be regulated and permitted pursuant to ~~this chapter~~ §§99.01 through 99.11 and shall not be interpreted, regulated, or permitted as essential services, public utilities, or private utilities.

- (B) Except as provided in this chapter, any approved use of a nonconforming tower or antenna support structure on the effective date of this chapter shall be allowed to continue, even if in conflict with the terms of this chapter, but shall not be expanded, reconstructed, or modified unless in conformance with this chapter, as required in § 99.09.
- (C) Should any provision of this chapter conflict with any other provision of the Code, the strictest provision shall prevail.
- (D) ~~This chapter~~ Sections 99.01 through 99.11 and the various sub-sections and clauses thereof, are hereby declared to be severable. If any part, sentence, paragraph, section, clause, or word is adjudged unconstitutional or invalid for any reason, by any court of competent jurisdiction, the invalidity shall not affect the remaining portions or applications of this chapter which shall be given effect without the invalid portion or application, provided those remaining portions are not determined by the court to be invalid.

§99.04 DEFINITIONS.

(A) *General use of terms.*

- (1) The terms, phrases, words, and their derivations used in ~~this chapter~~ §§99.01 through 99.11 of this chapter shall have the meanings given in this section.
- (2) When consistent with the context, words used in the present tense also include the future tense; words in the plural number include the singular number; and words in the singular number include the plural number.
- (3) All terms used in the definition of any other term shall have their meaning as otherwise defined in this section.
- (4) The words "shall" and "will" are mandatory and "may" is permissive.
- (5) Words not defined shall be given their common and ordinary meaning.

(B) *Defined terms.* The definitions provided in this subsection shall apply for purposes of §§99.01 through 99.11:

ADMINISTRATIVE REVIEW TEAM or **ART.** Members of city staff listed in §99.06 or their designated representatives, and others appointed by the City Manager as deemed necessary.

ALTERNATIVE TOWER STRUCTURE. Includes, but is not limited to man-made trees, clock towers, bell steeples, light poles, power poles, and similar alternative-design mounting structures or other buildings or structures that are intended to camouflage or conceal the presence of antennas, towers, and other wireless communications facilities.

ANTENNA. Any transmitting or receiving device used in communications that radiate or capture electromagnetic waves, digital signals, analog signals, radio frequencies, wireless communications signals, or other communication signals.

ANTENNA SUPPORT STRUCTURE. Any building or structure other than a tower which can be used for the location of wireless communications facilities.

APPLICANT. Any person that applies for administrative review, conditional use review, certificate of zoning plan approval, or other permit or approval according to the requirements of §§99.01 through 99.11 of this chapter.

APPLICATION. The materials and process by which an applicant submits a request as authorized by the property owner and indicates a desire to be granted approval of an antenna, tower, antenna support structure, or any other wireless communications facility under the provisions of §§99.01 through 99.11 of this chapter. An application includes all written documentation, verbal statements, and representations, in whatever form or forum, made by an applicant to the city concerning the request, but shall not include materials submitted as part of a request for non-binding pre-application review.

ARCHITECTURAL REVIEW BOARD or **ARB.** The Architectural Review Board of the city, as created by §153.172 of this Code of Ordinances.

ARCHITECTURAL REVIEW DISTRICT. The Architectural Review District of the city. The term may also be used to refer to Ohio Historic Inventory Properties as provided in §153.170 of this Code of Ordinances, where appropriate.

BACKHAUL NETWORK. The infrastructure that connects a provider's wireless communications facility sites to one or more cellular telephone switching offices, and/or long distance providers, or the public switched telephone network.

BOARD OF ZONING APPEALS or **BZA.** The Board of Zoning Appeals for the city, as created by the Dublin City Charter, Article VII.

CABLE MICROCELL NETWORK or **CMN.** A wireless telecommunications facility characterized by small antennas and equipment cabinets, and typically located on a small diameter monopole; on an existing or replacement street light, power pole, sign, or other suitable structure; or on an existing building.

CELLULAR-ON-WHEELS or **COW.** A temporary mobile wireless communications facility that consists of a wireless antenna tower and associated equipment on a truck, trailer, or other mobile structure designed to be part of a wireless network.

CHIEF BUILDING OFFICIAL. The Chief Building Official of the city.

CITY. The City of Dublin, Ohio.

CITY ENGINEER. The City Engineer of the city.

CODE. The Code of Ordinances of the city.

CO-LOCATION. The use of, or ability to use, a wireless communications facility or support structure by more than one wireless communications provider or more than one wireless antenna array.

CONDITIONAL USE. A use allowed in a zoning district after approval of the Planning and Zoning Commission according to the provisions of §153.236 of this Code of Ordinances.

COUNCIL. The City Council of the city.

DIRECTOR. The Director of Land Use and Long Range Planning of the city, or a designee.

DISTRIBUTED ANTENNA SYSTEM or **DAS.** A network of spatially separated antenna nodes connected to a common source via a transport medium that provides wireless service within a geographic area or structure which also may or may not contain fiber optic transport and/or landline components.

DISTRICT or **ZONING DISTRICT** or **ZONE DISTRICT.** A portion of the city within which certain uses of land and/or buildings are permitted and under the regulations and requirements of Chapter 153 of this Code of Ordinances.

EMERGENCY. A reasonably unforeseen occurrence with a potential to endanger personal safety or health, or cause substantial damage to property, that calls for immediate action, mitigation, or abatement.

ENGINEER. Any engineer currently licensed by the State of Ohio.

EQUIPMENT SHELTER or **EQUIPMENT CABINET.** The structure in which the electronic receiving and relay equipment or other necessary equipment for a wireless communications facility is located.

FAA. The U.S. Federal Aviation Administration, and any legally appointed, designated, or elected agent or successor.

FCC. The U.S. Federal Communications Commission and any legally appointed, designated, or elected agent or successor.

HEIGHT or **ABOVE GROUND LEVEL** or **AGL.** When referring to a tower or other structure, the distance measured from the finished grade at the base of the tower or structure to the highest point on the tower or structure, including the base pad and any antenna, but not including lightning arrest devices.

MONOPOLE. A support structure constructed of a single, self-supporting hollow metal tube securely anchored to a foundation.

MULTI-USE TOWER. A self-supporting lattice, guyed, or monopole structure constructed from grade which supports more than one wireless communications facility.

NONCONFORMING TOWER. Any tower or antenna lawfully existing at the effective date of or amendment to §§99.01 through 99.11 of this chapter which does not currently conform to the requirements of §§99.01 through 99.11 of this chapter.

PERSON. Any individual, firm, partnership, association, corporation, company, or other legal entity, private or public, whether for profit or not-for-profit.

PLANNING AND ZONING COMMISSION or **PZC.** The Planning and Zoning Commission for the city, as created by the City Charter, Article VII.

RECONSTRUCTED TOWER. A tower which is removed in whole or in part and replaced in whole or in part. For the purposes of §§99.01 through 99.11 of this chapter, a reconstructed tower

is a tower for which approvals have been granted in accordance with the provisions of §§99.01 through 99.11 of this chapter. The term and its use shall not apply to nonconforming towers.

RECORD OF DETERMINATION. The official written record of action by the Administrative Review Team.

SMALL CELL FACILITY. A wireless facility that meets both of the following requirements:

- (1) Each antenna is located inside an enclosure of not more than six (6) 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.
- (2) All other wireless equipment associated with the facility is cumulatively not more than twenty-eight (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.

STEALTH. A wireless communications facility designed to appear as another natural or artificial object that exists in the surrounding environment or which is architecturally integrated into a building or other structure, and designed to be minimally obtrusive and to camouflage or conceal the presence of antennas or towers, at the determination of the required reviewing body.

TEMPORARY WIRELESS COMMUNICATIONS FACILITIES. A cellular-on-wheels unit; an antenna on a bucket truck, crane, crank-up tower, tower; or another wireless communications facility required to evaluate a site for a temporary placement of a wireless communications facility as permitted by §§99.01 through 99.11 of this chapter or for providing communications during an emergency, special event, conference, or other situations for limited periods while the use of a permanent wireless communication facility is temporarily interrupted.

TOWER. Any structure designed and constructed primarily for the purpose of supporting one or more antennas for telephone, radio, and similar communication purposes, including self-supporting lattice towers, guyed towers, or monopole towers. The term includes radio and television transmission towers, microwave towers, common-carrier towers, wireless communications towers, alternative tower structures, and the like. The term includes the structure and any necessary supports.

WIRELESS COMMUNICATIONS FACILITIES or WCF. Includes, but shall not be limited to, towers, poles, cables, wires, lines, wave guides, antennas, microwave dishes, small cell facilities and wireless support structures, and/or any other equipment or facilities associated with the transmission or reception of communications as regulated by the FCC (or other unregulated wireless communication facility). The term shall not include:

- (a) Any satellite earth station antenna two meters or less in diameter or diagonal measurement located in a non-residential district. (§153.095(B)(3) and (4) shall be applicable.)
- (b) Any satellite earth station antenna one meter or less in diameter or diagonal measurement that is designed to receive direct broadband satellite service, including direct-to-home

satellite services, or to receive or transmit fixed wireless signals via satellite regardless of zoning category. (§153.095(B) shall be applicable.)

- (c) Any antenna that is one meter or less in diameter or diagonal measurement and is designed to receive video programming service via broadband video services (wireless cable) or to receive or transmit fixed wireless signals other than via satellite.
- (d) Any antenna that is designed to receive local television broadcast signals and does not use a mast higher than 12 feet above the tallest point of the roof of the tallest principal or accessory structure, excluding chimneys, cupolas, or other architectural elements.
- (e) Antennas used by amateur radio operators (§153.096(A) shall be applicable).
- (f) Towers, structures, antennas, or other equipment used for the purposes of operating a public safety voice or data radio network or an outdoor early warning system within the city limits. This includes directional and omnidirectional antenna equipment, as well as microwave and point-to-point equipment.

WIRELESS SUPPORT STRUCTURE. A pole, street light pole, traffic signal pole, a fifteen-foot or taller sign pole, or utility pole capable of supporting small cell facilities, excluding utility poles or other facilities used to supply traction power to public transit systems, including railways, trams, streetcars, and trolleybuses.

§99.05 GENERAL REQUIREMENTS.

- (A) Wireless communications facilities, where permitted, shall be subject to administrative review or conditional use review in the zoning districts specified in Chapter 153 of this Code of Ordinances, contingent upon meeting the requirements of this chapter and Chapter 153, and other applicable ordinances of the city. Certain facilities as specified in this chapter shall be subject to review by the Architectural Review Board in accordance with §99.11. Collocation of small cell facilities in, along, across, upon, and under the city right-of-way, and construction, maintenance, modification, operation, or replacement of wireless support structures in, along, across, upon, and under the city right-of-way, as defined in §99.22, are subject to the requirements of §§99.20 through 99.29 of this chapter and are not otherwise subject to zoning review or approval.
- (B) The following table summarizes the city's zoning districts and approval procedures applicable to the facilities regulated by §§99.01 through 99.11 of this chapter.
 - (1) Administrative review: See §99.06.
 - (2) Conditional use review: See §99.07.
 - (3) Architectural Review Board: See §99.11.

<i>Zoning District (exclusive of small cell facilities and/or wireless support structures in the right-of- way)</i>	<i>Approval Procedures</i>			
	<i>Co-Location¹</i>	<i>New Tower</i>	<i>Alternative Structure²</i>	<i>Temporary Facilities</i>
Rural and Residential	Administrative ⁴	Not Permitted	Conditional Use ⁴	See §99.10
Commercial (except Suburban Office and Institutional and Neighborhood Commercial)	Administrative	Conditional Use	Administrative ³	See §99.10
Suburban Office and Institutional; Neighborhood Commercial	Administrative	Not Permitted	Administrative ³	See §99.10
Limited and General Industrial, Technology Flex	Administrative	Conditional Use	Administrative ³	See §99.10
OLR and Restricted Industrial	Administrative	Not Permitted	Administrative ³	See §99.10
Innovation Zone	Administrative	Conditional Use	Administrative ³	See §99.10
Bridge Street Corridor	Administrative	Conditional Use	Administrative ³	See §99.10
Planned Districts (except Planned Industrial Park)	Administrative	Conditional Use	Administrative or Conditional Use ⁵	See §99.10
Planned Industrial Park	Administrative	Conditional Use	Administrative ³	See §99.10
Architectural Review District	ARB Approval	Not Permitted	ARB Approval	See §99.10

¹Co-location on existing antenna support structures or towers.

²The intent of alternative tower structures is to camouflage the tower/antenna installation.

³If the Director determines that the essential criterion of footnote 2, above, has not been met, the application for administrative review and certificate of zoning plan approval shall be denied. The applicant may submit an application for conditional use review by the Planning and Zoning Commission. (See § 99.07)

⁴Co-location on properties in the Rural District or Residential zoning districts and owned by the City of Dublin, Washington Township, or Dublin City Schools shall be subject to administrative review. (See §99.06)

⁵Applications involving a request to install an alternative structure on a property zoned PUD, Planned Unit Development District allowing residential uses shall be subject to conditional use review. (See §99.07)

(C) *General requirements.* The following requirements shall apply to all wireless communications facilities in any zoning district, with the exception of small cell facilities and wireless support structures in the city right-of-way in accordance with §§99.20 through 99.29. These requirements shall be in addition to the regulations of the specific zoning districts in §99.05(B).

(1) *Application.* The following information must be submitted for all applications required by §§99.01 through 99.11 of this chapter unless deemed unnecessary by the Director. An application is not considered complete until all required materials have been submitted and accepted by the city. If an application is determined to be incomplete, the Director shall promptly notify the applicant of the information necessary to complete the application. The Director or the ART may request additional information if deemed reasonably relevant to the consideration of the application.

(a) Completed application form and application fee.

(b) A scaled and dimensioned site plan (not less than one inch equals 50 feet) clearly indicating the following:

1. Location, type and height of the proposed wireless communications facility;
2. The existing or proposed lease area and parcel boundaries for the site;
3. On-site land uses and zoning, and adjacent land uses and zoning (including land in other municipalities);
4. Adjacent roadways and rights-of-way;
5. Any buildings within 100 feet of the property boundaries;
6. Proposed means of pedestrian and/or vehicular access as applicable to the type of facility;
7. The setback distance between the proposed wireless communications facility, equipment shelters and/or cabinets, and the nearest property line;
8. Elevation drawings of the proposed wireless communications facilities, including material specifications for all associated site improvements; and
9. Any other proposed improvements, including but not limited to structures, grading, tree removals and replacement, topography, parking, and other information necessary to determine compliance with §§99.01 through 99.11 of this chapter.

(c) Legal description and/or property survey of the parent tract and leased parcel (if applicable).

(d) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, the separation distance from other existing and planned wireless communications facilities shall be shown on a map, and shall include latitudinal and longitudinal location coordinates. The applicant shall also identify the type of construction of the existing wireless communications facilities and the owner/operators of the existing facilities, if known.

(e) A landscape plan showing proposed landscape materials and quantities, locations, installation sizes, and other information necessary to determine compliance with the landscape requirements of Chapter 153 of this Code of Ordinances.

- (f) Location and method of screening structures, if any, including height, material, style, and color; and, if applicable, the method of camouflage and illumination. Specification sheets shall be required for all prefabricated site elements.
- (g) A statement of compliance with the applicable requirements of this chapter and all applicable federal, state or local laws, including those of the FCC and FAA.
- (h) Twenty-four hour emergency contact information and contact information for the entities providing the backhaul network for the wireless communications facilities described in the application and other wireless communications sites owned or operated by the applicant in the municipality. Contact information for the tower owner, operator, and emergency contact shall be kept current and on file with the city at all times.
- (i) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, a statement by the applicant and/or a structural analysis sealed by an engineer affirming that the construction of the wireless communications facility will accommodate co-location of additional antennas for future users as applicable.
- (j) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, a statement from an engineer of the ability or inability to use existing towers, other structures, or alternative technology not requiring the use of towers or structures, to provide the services planned for the use of the proposed wireless communications facility.
- (k) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, an inventory of any existing and approved towers, antennas, alternative tower structures, antenna support structures, and existing wireless support structures and small cell facilities that are either within the jurisdiction or within two miles of the border of the city, with latitudinal and longitudinal location coordinates. The city may share this information with other applicants under this chapter or other organizations seeking to locate towers or antennas within the jurisdiction of Dublin or other communities. However, the city is not, by sharing this information, in any way representing or warranting that the sites are available or suitable. The inventory of each tower and antenna shall include:
 - 1. A map showing each location, by address and/or parcel identification number, including straight-line distances between each facility;
 - 2. Facility height and design;
 - 3. Facility owner(s)/operator(s); and
 - 4. Co-location capability of each facility, including alternative tower structures and antenna support structures.

(2) *Application procedures.*

- (a) Applications for all wireless communications facilities, except for applications for the collocation of small cell facility and the construction, maintenance, modification, operation, or replacement of wireless support structures in, along, across, upon, and under the city rights-of-way that are subject to §§99.20 through 99.29 of this chapter, shall be submitted in accordance with §§99.05 through 99.07, as applicable.
- (b) The applicant shall pay a non-refundable fee as established by the city.

- (c) When practicable, application for approval of multiple towers and/or antenna sites by a single owner of towers and antennas shall be submitted as a single application or multiple applications submitted at the same time.
 - (d) *Historic Register/District.* Any application to locate a wireless communications facility on a building or structure that is listed on a federal or state historic register or within the Architectural Review District shall be subject to review by the Architectural Review Board in accordance with § 99.11, in addition to any other required review procedures.
 - (e) *Public property.* Approval by the City Manager or his or her designee shall be required for any applications involving structures to be located on property owned by the city, except for applications for small cell facilities and/ or wireless support structures in the public right-of-way, which are governed by §§99.20 through 99.29.
- (3) *Wireless communications facility support structures.* Towers, antennas, antenna support structures, and all other improvements associated with a wireless communications facility subject to §§99.01 through 99.11 of this chapter shall meet the following requirements:
- (a) *Design.* All wireless communication facility support structures shall have a monopole, unipole, or similar non-lattice single vertical structure design and shall be further designed to accommodate at least two wireless communication arrays of antennas or panels, unless otherwise required by the required reviewing body. The applicant shall submit an affidavit by an engineer licensed in the State of Ohio attesting that these requirements are met.
 - (b) *Color and finish.* Towers, antennas, other wireless communications facility support structures, and supporting electrical and mechanical equipment shall either maintain a non-contrasting gray or similar color or have a galvanized steel finish unless otherwise required by the required reviewing body or any applicable standards of the FAA and/or the Ohio Department of Transportation. Alternative tower structures may maintain another color or finish if determined by the required reviewing body to be necessary to establish a stealth appearance and be aesthetically and architecturally compatible with the surrounding environment.
 - (c) *Compatible design.* The design of buildings and related structures for the wireless communications facility shall use materials, colors, textures, and screening so as to be aesthetically and architecturally compatible with the surrounding environment, as approved by the required reviewing body.
 - (d) *Antenna color.* If an antenna is installed on a structure other than a tower, the antenna and supporting electrical and mechanical equipment must be a neutral color that is identical to, or closely compatible with, the color of the supporting structure so as to make the antenna and related equipment as visually unobtrusive as practicable, as determined by the required reviewing body.
 - (e) *Lighting.* Facilities shall not be artificially lighted, unless required by the FAA or other applicable authority. If lighting is required, the lighting fixtures and installation must cause the least disturbance to views from surrounding properties. Alternative tower structures may be lighted if determined by the required reviewing body to be necessary to establish a stealth appearance and to be aesthetically and architecturally compatible with the surrounding environment.

- (f) *Maximum height.* Wireless communications facilities subject to §§99.01 through 99.11 of this chapter shall meet the following height requirements:
1. In residential zoning districts, up to 80 feet;
 2. In all other zoning districts, up to 120 feet, provided that the facility is designed to be co-locatable for more than one additional carrier. In no case shall a wireless communications facility, including antenna, exceed 120 feet, as measured from grade at the base of the tower, unless the required reviewing body determines that conditions present in the vicinity require a taller structure in order to function.
 3. For wireless communications facilities locating on a structure or building, antenna shall not extend more than 20 feet above the highest point of the main roof deck or supporting structure if the antenna is located on a structure other than a roofed building.
 4. Unless otherwise required herein, alternative tower structures may exceed 120 feet if determined by the required reviewing body to be necessary to establish a stealth or camouflaged appearance that is aesthetically and architecturally compatible with the surrounding environment.
 5. Unless otherwise specified, maximum height exceeding the provisions of division (C)(3)(f)1-4 of this section shall require conditional use review under the provisions of § 99.07.
 6. As an exception to division (C)(3)(f)1-5 of this section, users locating on a city water tank are exempt from the height requirements of this chapter, but facilities shall be no taller than functionally necessary.
- (g) *Co-location.* Unless physically or technically infeasible, all wireless communications facilities shall be constructed or reconstructed to accommodate two or more users.
1. In connection with any application for certificate of zoning plan approval, in order to encourage co-location, an existing tower meeting co-location requirements that is lower than the height permitted above may be reconstructed to meet the maximum heights permitted after receiving approval from the required reviewing body. Additionally, reconstructed towers may be required to be brought into conformance in whole or in part if the existing tower is determined by the Director to be nonconforming.
 2. A wireless communications facility which is being rebuilt to accommodate the location of additional antennas may be relocated on the same site, after receiving approval from the required reviewing body, provided it meets the setback requirements of this chapter.
 3. Co-location requirements may be waived if the required reviewing body determines that the fees, costs, or contractual provisions required by the owner in order to share an existing tower or structure or to adapt an existing tower or structure for sharing are unreasonable. Costs that would exceed new tower development are an example of what may be determined to be unreasonable. Satisfactory and substantial information must be submitted by the applicant demonstrating that the costs are unreasonable.
- (4) *Site requirements.* Wireless communications facilities subject to §§99.01 through 99.11 of this chapter and associated site improvements shall be sited and developed in accordance with the following requirements:

(a) *Setback and siting requirements.*

1. The setback requirements shall be met for all elements of the wireless communications facility, supporting structure, and equipment.
2. A minimum setback of 100 feet from all property lines shall apply to new towers and/or alternative tower structures unless a greater setback for principal structures is required by the zoning district in which the tower is to be located. In determining the required setbacks and lot area, the entire site, including all lots or parcels used for the tower, supporting structures, and equipment, shall be considered, even though the antennas or towers may be located on leased portions within the prescribed lot area.
3. The required reviewing body may permit a reduced setback for alternative tower structures provided that the reduced setback is required for the function or purpose of that structure and not for the purposes of the tower/antenna location.
4. The required reviewing body may permit a reduced setback for all other wireless communications facilities if the location is required for the function of the tower or antenna and no other reasonable alternative location exists. Satisfactory and substantial information must be submitted by the applicant demonstrating that all other locations are unreasonable.
5. Refer to division (C)(5) of this section for regulations pertaining to the siting of equipment associated with wireless communications facilities.

(b) *Screening.* Screening shall comply with applicable requirements of Chapter 153 of this Code of Ordinances. Fencing or other materials used for screening of wireless communications facilities or associated equipment shall be at least one foot higher than the structure(s) it is intended to screen, but shall not exceed 12 feet.

(c) *Landscaping.* Buffer plantings shall be located on the site to screen adjacent properties and the base of the wireless communications facility and associated equipment from adjacent properties and rights-of-way in accordance with the landscape requirements of §§99.01 through 99.11 of this chapter and Chapter 153 of this Code of Ordinances.

(d) *Sign.* One sign shall be posted in a visible location on the tower, alternative tower structure, fence, equipment shelter, or other associated equipment indicating the owner of the facility, and an emergency contact and phone number. The sign shall not exceed two square feet and shall be approved as part of the building permit or certificate of zoning plan approval. All other signs shall comply with the requirements of Chapter 153 of this Code of Ordinances.

(5) *Equipment shelters and cabinets.*

(a) *Design and screening.*

1. Equipment cabinets or structures used in association with antennas shall be designed and/or painted to minimize visual impact.
2. Evergreen plant material shall be used for screening and shall be planted to ensure that the equipment will be screened to its full height within three years of planting.
3. Existing mature tree growth and natural land forms on the site shall be preserved to the maximum extent possible. In some cases, such as towers sited on large, wooded lots, the required reviewing body may determine that natural growth around the property may be a sufficient buffer.

4. At the required reviewing body's determination, alternative screening materials may be used in cases where plant material is not appropriate.
- (b) *Underground equipment shelters.* Underground equipment shelters will be required by the required reviewing body where equipment shelters are located on properties that are readily visible from adjacent streets and lots and where landscape screening is not effective.
 - (c) *Roof- and/or structure-mounted antennas.* The equipment cabinet or structure used in association with antennas shall comply with applicable building codes. Additionally, equipment shall be sited, designed, and/or painted to minimize visual impact and be screened so that it is not visible from ground level.
 - (d) *Utility- or light pole-mounted antennas.* The equipment cabinet or structure used in association with antennas shall be located in accordance with the following:
 - 1. In all zoning districts, the equipment cabinet or structure shall comply with all applicable setbacks required by the zoning district in which it is located.
 - 2. If the proposed antenna mounted on a utility or light pole is located within an existing easement, the applicant shall obtain a separate easement encroachment agreement as required by the City Engineer.
 - (e) *Tower-mounted antennas.* As an exception to division (C)(5)(b) of this section, where the required reviewing body determines that underground equipment shelters are not feasible due to site conditions or other considerations, equipment shelters designed using materials permitted for principal structures within the zoning district shall be provided where applicable. The unmanned equipment structure shall not exceed the maximum height for principal structures and comply with setbacks required by the zoning district in which the shelter is located.
- (6) *Code compliance and permit requirements.*
- (a) *Construction permits.* The installation of any wireless communications facility shall require compliance with all applicable federal, state, and local regulations and the securing of all applicable zoning and building permits and inspections. All towers and associated wireless communications facilities subject to §§99.01 through 99.11 of this chapter require a certificate of zoning plan approval and applicable building permits prior to installation.
 - (b) *State or federal requirements.*
 - 1. All wireless communications facilities shall meet or exceed current standards and regulations of the FAA, the FCC, and any other agency of the state or federal government with the authority to regulate towers and antennas.
 - 2. If state or federal standards and regulations are amended, the owners of the wireless communications facilities governed by §§99.01 through 99.11 of this chapter shall bring any facilities into compliance with the revised standards and regulations within six months of the effective date of the standards and regulations, unless a different compliance schedule is mandated by the regulating agency. Failure to bring wireless communications facilities into compliance with any revised standards and regulations shall constitute grounds for removal at the owner's expense.
 - (c) *Building codes and safety standards.*

1. To ensure the structural integrity of towers, the owner of a tower and/or antenna support structure shall ensure that it is designed, constructed, and maintained in compliance with requirements contained in applicable state or local building codes and the applicable requirements for towers and antenna support structures that are published by the Electronics Industries Association, as amended from time to time.
 2. If, upon inspection, the city concludes that a wireless communications facility fails to comply with any applicable codes and requirements and constitutes a danger to persons or property, after written notice to the owner, the owner shall have not more than 30 days to bring the facility into compliance with those requirements. Failure to bring the facility into compliance within the required time shall be grounds for removal at the owner's expense.
- (d) *License to operate.* Owners and/or operators of wireless communications facilities shall maintain and submit copies of all approved franchises, certifications, licenses, and permits required by law for the design, construction, location, and operation of wireless communications facilities in Dublin. Evidence of renewal or extensions shall be promptly provided to the Director.
- (e) *Certification.* Any information of an engineering nature required by this chapter, whether civil, mechanical, or electrical, shall be certified by a licensed engineer.

§99.06 ADMINISTRATIVE REVIEW.

(A) General provisions.

(1) Administrative Review Team (ART).

- (a) The purpose of the Administrative Review Team is to provide for review and approval authority for certain wireless communications facilities ~~as required by this chapter~~. The Administrative Review Team is responsible for the comprehensive review of each application submitted in accordance with §§99.01 through 99.11 of this chapter, and making recommendations to the Planning and Zoning Commission, Architectural Review Board, or Board of Zoning Appeals where required.
- (b) The Administrative Review Team shall consist of the Director (Chair), City Engineer, Fire Chief, Economic Development Manager, Parks and Open Space Director, Police Chief, and Chief Building Official, or their representatives, and any other members appointed by the City Manager as deemed necessary, either as permanent or temporary members.
- (c) The Administrative Review Team may use the services of other professionals, such as architectural, engineering, and other consultants as they deem necessary, to advise the ART on the application of the provisions of §§99.01 through 99.11 of this chapter.

- (2) An application for administrative review shall be made in accordance with the requirements of § 99.05(C)(1) and (C)(2).

- (3) *Public reviews.* Where public reviews are required by §§99.01 through 99.11 of this chapter, a written notice of the public meeting shall be sent to the applicant, property owner, and owners of parcels of land within 300 feet of the subject parcel(s), as listed on the County Auditor's current tax list, not less than ten days prior to the meeting. The notice shall, at a minimum, indicate the property that is the subject of the request, describe the nature of the request, the time, date, and location of the meeting at which the

application will be considered, and indicate when and where written comments will be received concerning the request.

(4) *Time extensions.*

- (a) Where the provisions of §§99.01 through 99.11 of this chapter require that an action be taken by the city within a stated period of time, that time may be extended with the written consent of both the applicant and the Director prior to expiration of the required time period.
- (b) If the applicant submits a revised application during any required review period, and the Director determines that the revised application differs substantially from the previous application, a new review period shall begin and additional meetings of the required reviewing body may be scheduled if deemed necessary by the Director.

(5) *Duration of approvals.* Approvals of requests for administrative review made in accordance with §§99.01 through 99.11 of this chapter shall be valid for a period of one year. If an initial building permit for the approved facility has not been issued within that one year period, the applicant shall be required to submit a new request for administrative review, as applicable, pursuant to §§99.01 through 99.11 of this chapter before obtaining a building permit.

(6) *Resubmission.* No application for administrative review which has been denied by the required reviewing body shall be resubmitted for a period of one year from the date of the decision, unless permitted by the Director after a demonstration by the applicant of a change of circumstances from the previous application that may reasonably result in a different decision.

(B) *Pre-application review.*

(1) *Purpose and applicability.*

- (a) At the option of the applicant, a pre-application review may be scheduled prior to filing a formal application for administrative review. The pre-application review is not part of the formal application review process or the required review period. The purpose of the pre-application review is to provide non-binding feedback to applicants to assist in expediting the administrative review process. Any materials submitted to the city for the purposes of the pre-application review shall become part of the public record.
- (b) Pre-application reviews do not result in a development decision or permit, and shall not obligate the city or the applicant to take any action on the proposal.

(2) *Pre-application review procedure.*

- (a) A request for a pre-application review shall be made in accordance with the provisions of this division (B). As an exception to the application requirements listed in § 99.05(C)(1), potential applicants may submit conceptual information based on the amount of information known about the project at the time a request for pre-application review is made. The request shall include, at a minimum, ten copies of the following information:

1. A general description of the proposal including a description of conformance to §§99.01 through 99.11 of this chapter;
 2. A site plan generally demonstrating the nature of the proposed wireless communications facility and associated site improvements;
 3. Conceptual facility elevations; and
 4. Any other materials for which the potential applicant would like to receive feedback.
- (b) The city shall notify the applicant in writing at least five days prior to the pre-application review.
- (c) The Administrative Review Team and other applicable departments shall be promptly notified of the Administrative Review Team pre-application review. Prior to the meeting the Director shall distribute the submitted materials to the Administrative Review Team and other applicable city departments for input and recommendations.
- (d) The Administrative Review Team shall review the submitted materials and provide non-binding input and recommendations. The ART shall complete its review of the application not more than 14 days from the date the request was submitted.
- (e) A written summary of comments and suggestions made during the pre-application review shall be provided to the applicant not more than ten days after the pre-application review.

(C) *Administrative review.*

(1) *Purpose and applicability.*

- (a) The purpose of the administrative review is to ensure that wireless communications facilities meet the applicable requirements of §§99.01 through 99.11 of this chapter.
- (b) Administrative review is required for all new wireless facilities, co-locations, and all modifications to existing facilities as required by §99.05(B). Cable microcell networks and distributed antenna systems that do not require the use of towers shall also be subject to administrative review.
- (c) Temporary wireless facilities shall meet all application and approval requirements of §99.10.

(2) *Administrative review considerations.* The Administrative Review Team shall render a decision on an application for administrative review based on the following considerations:

- (a) Antennas locating on an existing building or other antenna support structure other than a tower may be approved as a use accessory to any commercial, industrial, professional, office, institutional, or similar structure, provided:
 1. The antenna is designed to be as unobtrusive as possible;
 2. The antenna does not extend more than 20 feet above the highest point of the main roof deck or supporting structure if the antenna is located on a structure other than a roofed building; and
 3. The antenna complies with the applicable provisions of § 99.05.
- (b) Co-located antennas on existing or reconstructed towers may be approved provided the color and design of the antenna is consistent with the existing tower and is designed to be as unobtrusive as possible.

1. The Administrative Review Team shall approve co-located antennas on a tower in instances where proposed co-location does not substantially change the physical dimensions of the tower and meets the requirements of §§99.01 through 99.11 of this chapter.
 - (c) Alternative tower structures may be approved in accordance with the following:
 1. The required reviewing body may approve the location of an alternative tower structure provided the site meets the purpose, objectives and applicable requirements of §§99.01 through 99.11 of this chapter.
 2. The objective of administrative review for alternative tower structures is to encourage ingenuity and the use of innovative methods to camouflage these facilities. If the application is denied by the Administrative Review Team following a finding that the proposed facilities have not been reasonably disguised or camouflaged, the applicant may file an application for conditional use review in accordance with §99.07.
 - (d) Cable microcell network or distributed antenna systems using multiple low-powered transmitters/receivers attached to existing wireline systems, such as conventional cable or telephone wires, or similar technologies/mechanisms may be approved provided that the use of towers is not required and all other applicable provisions §§99.01 through 99.11 of this chapter have been satisfied.
- (3) *Decisions.*
- (a) Any application required by §§99.01 through 99.11 of this chapter to be reviewed under the provisions of this section shall be approved, approved with conditions, or denied by the Administrative Review Team based on the applicable review standards as provided in §§99.01 through 99.11 of this chapter not more than 28 days from the receipt of a completed application. The Administrative Review Team shall state the reasons for their decisions in the minutes and provide a written record of the decision to the applicant not more than ten days after a recommendation or decision is made, unless otherwise provided in §§99.01 through 99.11 of this chapter.
 - (b) Prior to reaching a decision, if the Administrative Review Team determines that an application does not meet the applicable review standards as provided in §§99.01 through 99.11 of this chapter, but determines that the application could meet those criteria with modifications that could not be reasonably conditioned, the applicant may request that the application be tabled to provide the opportunity to make those modifications. If the request for tabling is granted, a new review period shall begin on the date the applicant submits a complete application with revised materials and shall be subject to the timeframe for rendering a decision as provided in division (C)(3)(a) of this section.
 - (c) Following the approval of an application for administrative review, the applicant may proceed with the process for obtaining a certificate of zoning plan approval and building permit, consistent with the approval as granted. All construction and development under any building permit shall comply with the approval, as applicable.
- (4) *Certificate of zoning plan approval.* A certificate of zoning plan approval issued by the Director verifying compliance with all applicable zoning requirements is required prior to

modification, extension, or alteration of wireless communications facilities that are subject to §§99.01 through 99.11 of this chapter.

(D) *Administrative departures.*

- (1) *Purpose and applicability.* The intent of this division (D) is to provide an administrative process to allow minor deviations from the strict application of requirements of §§99.01 through 99.11 of this chapter caused by unusual site or development conditions or other similar conditions that require reasonable adjustments, but remain consistent with the intent of §§99.01 through 99.11 of this chapter. Examples include, but are not limited to, adjustments to wireless communications facility setbacks, landscaping and screening, or other similar features or elements.
- (2) *Review procedure.*
 - (a) An application for administrative departure may be submitted with an application for administrative review, or at any time after an application has been submitted and before a decision or recommendation by the Administrative Review Team has been made. If an application for administrative departure is made after an application for administrative review has been filed, the Director may require that the time period for administrative review start over on the day the request for an administrative departure is received.
 - (b) An application for an administrative departure may be processed simultaneously with the application for administrative review to which it relates. The Administrative Review Team shall determine whether each requested administrative departure is approved, approved with conditions, or denied.
 - (c) Should the Administrative Review Team find that the request does not meet the criteria for an administrative departure, the applicant may file for a variance in accordance with § 153.231 of this Code of Ordinances, or submit a new application for administrative review.
- (3) *Criteria for administrative departure approval.* The Administrative Review Team shall make its decision on an administrative departure based on the following criteria:
 - (a) The need for the administrative departure is caused by unique site conditions, conditions on surrounding properties, and is not being requested simply to reduce cost or as a matter of general convenience;
 - (b) The administrative departure does not have the effect of authorizing any wireless communications facility type that is not otherwise permitted in that zoning district;
 - (c) The administrative departure does not modify any numerical development standard by more than 10% of the requirement; and
 - (d) The administrative departure, if approved, will ensure that the wireless communications facility is of equal or greater development quality with respect to design, material, and other features than without the administrative departure.

(E) *Appeals.* The determination rendered by the Administrative Review Team may be appealed to the Board of Zoning Appeals within 20 days of the decision by any person aggrieved by the decision. The Appeal shall be filed with the city, specifying the grounds, in conformance with §153.231 of this Code of Ordinances.

- (1) An appeal shall stay all proceedings in furtherance of the action appealed from unless the Director certifies to the Board of Zoning Appeals, after notice of appeal has been filed,

that, by reason of the facts stated in the record of determination, a stay would cause imminent peril to life or property. In this case, the proceedings shall not be stayed other than by a restraining order, which may be granted by a court of record.

- (2) In deciding the appeal, the Board of Zoning Appeals shall determine, in conformance with §153.231(F) of this Code of Ordinances, whether the decision was made using the proper requirements and standards of §§99.01 through 99.11 of this chapter. The decision of the Board of Zoning Appeals is limited to the information that was available to the Administrative Review Team for the initial decision, including any materials included as part of the written record of the decision. Additional testimony is not appropriate.
- (3) If the Board of Zoning Appeals determines that the Administrative Review Team made an improper decision the Board may reverse or affirm, wholly or partly, or may modify the order, requirement, decision or determination appealed from, and may make an order, requirement, decision, or determination as ought to be made, and to that end shall have all the powers of the Administrative Review Team.
- (4) The findings of the Board of Zoning Appeals shall be based on and supported by substantial evidence contained in a Board Order, which shall be forwarded to the applicant within ten days following the final determination.
- (5) The decision of the Board of Zoning Appeals may be further appealed to City Council within ten days of the Board's decision.
- (6) City Council must determine whether to hear the appeal, in its sole discretion by a motion passed by a majority vote, no later than 21 days following the Clerk of City Council's receipt of the written notice of appeal, unless an extended time is agreed upon by the City Manager and the applicant.
- (7) City Council shall decide the appeal no later than 28 days following the date of Council's decision to hear the appeal, unless an extended time is otherwise agreed upon by the City Manager and the applicant. In considering the appeal, City Council may consider any evidence and may affirm, reverse, or otherwise modify the decision of the Board of Zoning Appeals or any other part of the application.

(F) *Concurrent application review.*

- (1) Applications for building permits, electrical permits, other applicable permits, and certificates of zoning plan approval associated with the building permit application process may be submitted with the application for administrative review and may be processed and reviewed concurrently with the administrative review application if desired by the applicant.
- (2) Review of the building permit applications and zoning approvals described in division (F)(1) of this section shall be subject to the statutory timing requirements that apply to building permit application reviews. Accordingly, the applicant should consider the nature and complexity of the request prior to submitting for concurrent review.
- (3) Requests for certificates of zoning plan approval and building permits for wireless facilities cannot be approved for zoning compliance until an affirmative record of determination of the Administrative Review Team and all other zoning approvals are obtained and attached to the appropriate building permit documents.

§99.07 CONDITIONAL USE REVIEW.

- (A) *Applications.* Applications for conditional use review for towers or antennas shall be reviewed by the Planning and Zoning Commission, as required by §99.05, subject to the procedures and requirements of §153.236 of this Code of Ordinances, except as modified in this section.
- (B) *Conditional use review considerations.* In addition to any standards for consideration of applications for conditional use review pursuant to §153.236 of this Code of Ordinances, the Planning and Zoning Commission shall consider the following factors in determining whether the application should be approved:
- (1) Compliance with the requirements of §§99.01 through 99.11 of this chapter;
 - (2) Height of the proposed tower or facility and its proximity to residential structures and residential districts;
 - (3) Nature of the potential for adverse effects on uses on adjacent and nearby properties;
 - (4) Relationship of surrounding topography to the view from nearby properties;
 - (5) Surrounding tree coverage and foliage and the ability to screen the facilities from the view of nearby properties;
 - (6) Design of the tower or facility, with particular regard to design characteristics that have the effect of reducing or eliminating visual obtrusiveness;
 - (7) Proposed ingress and egress for maintenance, safety, and prohibition of nuisances;
 - (8) Availability of suitable existing towers, other structures, or alternative technologies not requiring the use of towers or structures, with regard to the following:
 - (a) New towers shall be approved only when other preferable alternatives are not available. No new tower shall be permitted unless the applicant demonstrates to the reasonable satisfaction of the Commission that no existing tower, structure, or alternative technology is available to fill the communication requirements.
 - (b) An applicant shall submit required information for review by the Planning and Zoning Commission related to the availability of suitable existing towers, other structures, or alternative technology. Evidence submitted to demonstrate that no existing tower, structure, or alternative technology can accommodate the applicant's proposed antenna may consist of any of the following:
 1. No existing towers or other suitable structures are located within the specific geographic limits meeting the applicant's engineering requirements.
 2. Existing towers or structures either do not have sufficient height to meet the applicant's engineering requirements, or have insufficient structural strength to support the applicant's proposed antenna and related equipment.
 3. The applicant's proposed antenna would cause frequency interference with the antenna on the existing towers or structures, or the antenna on the existing towers or structures would cause interference with the applicant's proposed antenna.
 4. The fees, costs, or contractual provisions required by the owner in order to share or to adapt for sharing an existing tower or structure, are unreasonable. Costs that would exceed new tower development is an example of what may be presumed to be unreasonable.
 5. The applicant demonstrates that there are other limiting factors that render existing towers and structures unsuitable.
 6. The applicant demonstrates that an alternative technology that does not require the use of towers or structures, such as a DAS or CMN using multiple low-powered

transmitters/receivers attached to a wireline system, is unsuitable. Costs of alternative technology that exceed new tower or antenna development shall not be presumed to render the technology unsuitable, but may be considered as a factor in the decision.

7. The applicant provides documentation that other tower owners were contacted in writing demonstrating the above considerations.

(C) In granting a conditional use, the Planning and Zoning Commission may impose conditions to the extent necessary to minimize any adverse effect of the proposed tower or antenna support structure on adjoining properties or to meet the review considerations of this section.

(D) The findings and decision of the Planning and Zoning Commission shall be based on and supported by substantial evidence contained in a written record and record of action which shall be forwarded to the applicant within ten days following the decision. The decision of the Planning and Zoning Commission shall be final.

§99.08 ABANDONMENT OF WIRELESS COMMUNICATIONS FACILITIES.

(A) *Abandonment.*

(1) All providers utilizing wireless communications facilities shall notify the city in writing of the location and date that any tower facility located in the city whose use will be discontinued. If the use of the facility is discontinued for 180 days without notice from the owner/operator or the owner of the property, the City Manager may declare the facility to be abandoned (this excludes any dormancy period between construction and the initial use of the facility). The facility's owner/operator and property owner will receive written notice from the city and be instructed to either reactivate the facility's use within 180 days, or dismantle and remove the facility.

(2) If reactivation or dismantling does not occur as described in division (A)(1) above, the city will either remove or cause the facility and associated structures to be removed and assess the costs to the owner/operator and property owner. In the case of a multi-use tower or wireless communications facility, this provision does not become effective until all users cease use of the tower or facility. However, the city may cause the abandoned portions of systems on the multi-use tower or facility to be removed in accordance with this provision.

(B) Before initiating action to remove the facility, the city must provide the owner of the tower or wireless communications facility and the property owner 90 days written notice and an opportunity to be heard before the Board of Zoning Appeals to appeal the decision. After this notice has been provided, or following a determination by the Board of Zoning Appeals that the tower or facility has been abandoned, the city may take whatever action that is lawful to order the removal or demolition of the tower or facility and all appurtenances.

(C) If the removal is appealed, a public hearing will be held before the Board of Zoning Appeals following the 90-day notice required in division (B) of this section. All interested parties shall be allowed an opportunity to be heard at the public hearing.

(D) After a public hearing is requested by the tower or wireless communications facility owner and held pursuant to division (C) of this section, the Board of Zoning Appeals may

recommend that the City Manager order the removal or demolition of the tower. The city may require the tower or facility owner or former owner to pay for all expenses necessary to remove or demolish the tower or facility.

§99.09 NONCONFORMING TOWERS OR WIRELESS COMMUNICATION FACILITIES.

- (A) *Conforming use.* Wireless communication facilities that are constructed in accordance with the provisions of §§99.01 through 99.11 of this chapter shall be deemed conforming uses or structures, regardless of their date of construction. This shall be the case even when new facilities are added to a nonconforming installation, provided that any new facilities meet the requirements of §§99.01 through 99.11 of this chapter.
- (B) *Existing towers.* Towers already in existence shall be allowed to continue their use as they exist as of the date of the adoption or amendment of §§99.01 through 99.11 of this chapter. Routine maintenance (including replacement with a new tower of like construction and height serving the same purpose) shall be permitted. A replacement tower must be constructed within 180 days of removal of the initial facility unless the owner demonstrates that meeting this requirement is not possible due to conditions not reasonably within their control. The Director may permit new construction and/or equipment replacement, other than routine maintenance on an existing tower, provided it complies with the requirements of this chapter and applicable requirements of Chapter 153 of this Code of Ordinances to the extent that existing conditions permit.
- (C) *Damaged or destroyed nonconforming wireless communications facilities.* Notwithstanding this section, nonconforming wireless communications facilities that are damaged or destroyed by actions outside the owner's control may be rebuilt without having to first obtain administrative review or a conditional use approval. Any other permits applicable to construction or reconstruction must be obtained. The type, height, and location of the wireless communications facility shall be the same as the original approved facility and constructed in accordance with currently applicable building codes. Permits for construction shall be obtained within 180 days from the date the facility is damaged or destroyed, and reconstruction shall be started within six months from the time of damage and shall be continued until completed. If no permit for construction is obtained, or if an issued permit expires, the facility shall be deemed abandoned as specified in § 99.08.

§99.10 TEMPORARY WIRELESS COMMUNICATIONS FACILITIES.

- (A) *General.* Temporary wireless communications facilities may be approved as provided for in §§99.01 through 99.11 of this chapter to:
- (1) Allow communications providers to administer limited frequency and modulation testing to evaluate system performance and the need for additional wireless communications facility sites. Any approval shall not exceed 30 days.
 - (2) Allow communications providers to supplement communications coverage when a previously permitted wireless communications facility has become involuntarily non-operational through an accident or force majeure. Any approval shall not exceed 30 days.

- (3) Address a substantial increase in the communications needs of the businesses, residents, and visitors of the city for a limited period of time in circumstances where an emergency has been declared by the city, state or federal government. The approval shall not extend beyond the time of the declared emergency.
- (4) Address a substantial increase in the communications needs of the businesses, residents, and visitors of the city for a limited period of time in circumstances when large conferences or special events are held within the city limits. The approval shall not exceed 14 days.
- (5) Allow providers to maintain uninterrupted wireless communication service through the use of temporary wireless facilities during extended periods of time due to substantial maintenance or capital projects undertaken or caused by the city. The approval shall not exceed the duration agreed to by the city and the affected wireless provider(s).
- (6) Allow providers to maintain uninterrupted wireless communication service resulting from what the Director determines to be unforeseen circumstances and/or needs for temporary alternative wireless communication facilities. The approval shall not exceed the duration agreed to by the city and the affected wireless provider(s).
- (7) The Director may permit one extension equal to the time periods permitted above, provided the extension is requested in writing prior to the expiration of the original approval period. Extensions may be granted provided the Director finds that the extension is reasonably necessary to resolve or accommodate the reasons for the original approval.

(B) *Application and approval.*

- (1) Due to the emergency nature often associated with temporary wireless facilities, authority to locate a temporary wireless communications facility in the city will be subject to the approval of the Director after review by any other members of the Administrative Review Team that the Director deems necessary following receipt of a completed application for a temporary wireless communications facility.
- (2) A temporary wireless communications facility may only be approved by the city for the limited purposes and time periods described in division (A) of this section.
- (3) Except as authorized by the Director during declared emergencies, all approved temporary wireless communications facilities shall:
 - (a) Be limited in height by the requirements of the zoning district in which the site is located. The Director may permit a greater height if the height is required for the function of the temporary wireless communications facility and no other reasonable alternative exists.
 - (b) Be set back a minimum of 100 feet from any adjoining or adjacent property line, as measured from the nearest part of the facility and/or any associated equipment. The Director may permit a lesser setback if the location is required for the function of the temporary wireless communications facility and no other reasonable alternative location exists.
 - (c) Minimize the visual impact of ground equipment to adjoining or adjacent properties.
 - (d) Provide temporary screening as may be required by the Director, such as available natural land formations, plant materials, and natural foliage to effectively screen from view as much of the temporary wireless communications facility as reasonably possible.

- (e) Only commence installation at the approved site 48 hours before actual site use may begin.
 - (f) Be completely removed from the approved site with all site restoration finalized and returned to previously existing conditions within 48 hours following the required termination deadline or extension.
 - (g) Not use an electric, gas, or other type of generator that causes or permits any noise to emanate from it in a manner, intensity, and/or duration to create unreasonable noise or sound audible from a distance of 50 feet, and causes inconvenience and annoyance to persons of ordinary sensibilities.
 - (h) Not be illuminated unless otherwise required by the FCC or the FAA.
 - (i) Be required to comply with the applicable provisions of § 99.05(C)(3) and all applicable federal, state or local laws.
- (4) Applications for the location of a temporary wireless communications facility shall include the following, unless deemed unnecessary by the Director:
- (a) A statement of authorization from the owner of the real property upon which the temporary wireless communications facility is proposed to be located that authorizes the location of the temporary wireless communications facility.
 - (b) A list of all property owners and registered homeowners associations and their addresses within 150 feet of the proposed temporary wireless communications facility site. The city may require the applicant to provide adjacent property owners with a descriptive notice of the proposed temporary wireless communications facility, site plan, and the anticipated dates of operation.
 - (c) A description of the proposed facility and all associated equipment, including structural design, proposed height, color, location, fencing and/or screening, and approximate setback from property lines.
 - (d) Typical elevations or photographs indicating the general appearance of the temporary facility.
 - (e) A site plan or aerial photo generally indicating the location and setbacks of the temporary facility.
 - (f) Any other information that the Director may deem reasonably necessary to adequately evaluate the request.

§99.11 ARCHITECTURAL REVIEW.

- (A) *Applications.* Applications requiring architectural review for wireless communication facilities shall be reviewed by the Architectural Review Board as required by § 99.05 subject to the procedures and requirements of §§ 153.066(F)(6) and 153.173 of this Code of Ordinances as applicable, except as modified in this section.
- (B) *General review considerations.* The Board shall determine whether the request will be appropriate to the preservation of the historic and architectural character of the District or of the historic property pursuant to the criteria specified in this section. Every reasonable effort shall be made to ensure that the use of the property will involve minimal alteration of existing buildings, structures, or sites and its environment.

(C) *Architectural review criteria.* In addition to any standards for consideration of applications to the Architectural Review Board pursuant to §§ 153.066(F)(6) and 153.174 of this Code of Ordinances, the Board shall consider the following factors in determining whether the wireless communications facility application should be approved:

- (1) Compliance with the requirements of §99.05(C);
- (2) Height of the proposed tower and its proximity to residential structures and residential districts within their jurisdiction;
- (3) Nature of uses on adjacent and nearby properties;
- (4) Design of the wireless communications facility, with particular regard to design characteristics that have the effect of eliminating visual obtrusiveness while demonstrating substantial consistency with the historical and architectural character of the area;
- (5) Proposed ingress and egress;
- (6) Ability to screen or eliminate from view all associated equipment and service structures from adjacent properties and public rights-of-way.
- (7) Availability of suitable existing towers, other structures, or alternative technologies not requiring the use of towers or structures. New facilities shall be approved only when other preferable alternatives are not available. No new facilities shall be permitted unless the applicant demonstrates to the reasonable satisfaction of the Architectural Review Board that no existing tower, structure, or alternative technology is reasonably available to fill the communication requirements.
 - (a) An applicant shall submit information to the Architectural Review Board related to the availability of suitable existing towers, other structures, or alternative technology. Evidence submitted to demonstrate that no existing tower, structure or alternative technology can accommodate the applicant's proposed antenna may consist of any of the following:
 1. No existing towers or other suitable structures are located within the specific geographic limits which meet the applicant's engineering requirements.
 2. Existing towers or structures either do not have sufficient height to meet the applicant's engineering requirements, or have insufficient structural strength to support the applicant's proposed antenna and related equipment.
 3. The applicant's proposed antenna would cause frequency interference with the antenna on the existing towers or structures, or the antenna on the existing towers or structures would cause interference with the applicant's proposed antenna.
 4. The fees, costs, or contractual provisions required by the owner in order to share or to adapt for sharing an existing tower or structure are unreasonable. Costs exceeding new tower development are presumed to be unreasonable.
 5. The applicant demonstrates that there are other limiting factors that render existing towers and structures unsuitable.
 6. The applicant demonstrates that an alternative technology that does not require the use of towers or structures, such as a distributed antenna system or cable microcell network using multiple low-powered transmitters/receivers attached to a wireline system, is unsuitable. Costs of alternative technology that exceed new tower or antenna development shall not be presumed to render the technology unsuitable, but may be considered as a factor in the decision.
 7. The applicant provides documentation that other tower owners were contacted in writing demonstrating the above considerations.

- (D) The Architectural Review Board may impose conditions to the extent that it concludes that conditions are necessary to substantially camouflage the proposed structure and/or minimize any adverse effect of the tower on the historical nature of the site and/or adjoining properties, and/or to meet the review considerations of §§99.01 through 99.11 of this chapter.
- (E) The findings and decision of the Architectural Review Board shall be based on and supported by substantial evidence contained in a Board Order which shall be forwarded to the applicant within ten days following the decision. Any applicant aggrieved by a decision of the Board may appeal the decision to the Board of Zoning Appeals in accordance with the provisions of § 153.180 of this Code of Ordinances.

**SMALL CELL FACILITIES AND WIRELESS SUPPORT STRUCTURES WITHIN THE
RIGHT-OF-WAY**

§99.20 PURPOSE AND INTENT

- (A) The purpose of §§99.20 through 99.29 of this chapter is to establish general procedures and standards, consistent with all applicable federal, state, and local laws, for the siting, construction, installation, collocation, modification, operation, and removal of small cell facilities and wireless support structures in the right-of-way.
- (B) The intent of §§99.20 through 99.29 of this chapter is to:
 - (1) Establish basic criteria for applications to locate small cell facilities and wireless support structures in the right-of-way and authorize the City Manager or his or her designee to develop, publish, and from time to time amend applications and other associated materials to provide clear guidance to applicants;
 - (2) Ensure that small cell facilities and wireless support structures are carefully designed, constructed, modified, maintained, and removed when no longer in use in conformance with all applicable health and safety regulations;
 - (3) Preserve the character of the City of Dublin by minimizing the potentially adverse visual impact of small cell facilities and wireless support structures through careful design, siting, landscaping and camouflaging techniques to blend these facilities into their environment to the maximum extent practicable;
 - (4) Enhance the ability of wireless service providers to deploy small cell facilities and wireless support structures in the city quickly, effectively, and efficiently so that residents, businesses, and visitors benefit from ubiquitous and robust wireless service availability;
 - (5) Establish an application process and structure for payment of fees and charges to be uniformly applied to all applicants, operators and owners of small cell facilities and wireless support structures for such facilities;

- (6) Comply with, and not conflict with or preempt, all applicable state and federal laws, including without limitation Section 101(a) and Section 704 of the Telecommunications Act, Pub. L. 104-104, 101 Stats. 56, 70 (Feb. 8, 1996) (codified as 47 U.S.C. §§ 253(a), 332(c)(7)), as may be amended or superseded, and Section 6409(a) of the Middle Class Tax Relief and Job Creation Act, Pub. L. 112-96, 126 Stat. 156 (Feb. 22, 2012) (codified as 47 U.S.C. § 1455(a)), as may be amended or superseded, and all FCC rules and regulations to interpret and implement applicable federal statutes.

§99.21 APPLICABILITY

(A) Subject to the Ohio Revised Code and approval of an application under §§99.20 through 99.29 of this chapter, an operator may collocate a small cell facility and construct, maintain, modify, operate, or replace wireless support structures in, along, across, upon, and under the city right-of-way.

- (1) An operator shall comply with generally applicable standards that are consistent with Chapter 98 and §§99.20 through 99.29 of this chapter and any rules, regulations, and design guidelines adopted by the city for the collocation of a small cell facility and construction, maintenance, modification, operation, or replacement of wireless support structures in, along, across, upon, and under the city right-of-way, unless otherwise prohibited by state or federal law.
- (2) All wireless support structures and small cell facilities shall be constructed and maintained so as not to impede or impair public safety or the legal use of the right-of-way by the city, the traveling public, or other public utilities.

Exclusions.

- (3) Amateur radio facilities. This chapter shall not govern the installation of any amateur radio facility that is owned or operated by a federally licensed amateur radio station operator or is used exclusively for receive-only antennas.
 - (4) Certain over-the-air receiving devices (OTARD). This chapter shall not govern the installation of any OTARD antennas covered under FCC regulations codified in 47 C.F.R. §1.4000 et seq., as may be amended or superseded. OTARD antennas include, without limitation, direct-to-home satellite dish antennas less than one meter in diameter, television antennas and wireless cable antennas.
 - (5) Handsets and user equipment. This chapter shall not govern the use of personal wireless devices (e.g., cell phones) or other consumer-grade mobile user equipment used in the right-of-way.
- (B) The permitting procedures and authorizations set forth herein in §§99.20 through 99.29 shall apply only to small cell facilities and wireless support structures in the right-of-way, and do not authorize the construction and operation of a wireline backhaul facility, which continues to be governed by Chapter 98: Right-of-Way Management of the Code.
- (C) Relationship to other chapters. This chapter shall supersede all conflicting requirements of other titles and chapters of this Code regarding the locating and permitting of small cell facilities and wireless support structures in the right-of-way.

(D) Nothing in this chapter precludes the city from applying its generally applicable health, safety, and welfare regulations when granting consent for a small cell facility or wireless support structure in the city right-of-way.

§99.22 DEFINITIONS

(A) General use of terms.

- (1) The terms, phrases, words, and their derivations used in §§99.20 through 99.29 shall have the meanings given in this section.
- (2) When consistent with the context, words used in the present tense also include the future tense; words in the plural number include the singular number; and words in the singular number include the plural number.
- (3) All terms used in the definition of any other term shall have their meaning as otherwise defined in this section.
- (4) The words "shall" and "will" are mandatory and "may" is permissive.
- (5) Words not defined shall be given their common and ordinary meaning.

(B) Defined terms.

ABANDONED. Any small cell facilities or wireless support structures that are unused for a period of three hundred sixty-five days without the operator otherwise notifying the city and receiving the city's approval.

AFFILIATE. When used in relation to any person, means another person who owns or controls, is owned or controlled by, or is under common ownership or control with, such person.

AGENT. A person that provides the city written authorization to work on behalf of a public utility.

ANTENNA. Communications equipment that transmits or receives radio frequency signals in the provision of wireless service.

APPLICANT. Any person that submits an application to the city to site, install, construct, collocate, modify, and/or operate a small cell facility or wireless support structure in the right-of-way according to the requirements of §§99.20 through 99.29 of this chapter.

CABLE OPERATOR. Any person or group of persons:

- (1) who provides cable service over a cable system and directly or through one or more affiliates owns a significant interest in such cable system, or
- (2) who otherwise controls or is responsible for, through any arrangement, the management and operation of such a cable system;

CABLE SERVICE.

- (1) The one-way transmission to subscribers of (i) video programming, or (ii) other programming service; and
- (2) Subscriber interaction, if any, which is required for the selection of such video programming or other programming service.

CABLE FRANCHISE. An initial authorization, or renewal thereof (including a renewal of an authorization which has been granted subject to 47 U.S.C. 522 Section 546), issued by a franchising authority, whether such authorization is designated as a franchise, permit, license, resolution, contract, certificate, agreement, or otherwise, which authorizes the construction or operation of a cable system.

CLEAR ZONE. The unobstructed, traversable area provided beyond the edge of the through traveled way for the recovery of errant vehicles. The clear zone includes shoulders, bike lanes, and auxiliary lanes, except those auxiliary lanes that function like through lanes. As defined in the ODOT Location and Design Manual, Volume 1, Section 600—Roadside Design.

COLLOCATION or COLLOCATE. To install, mount, maintain, modify, operate, or replace wireless small cell facilities on a wireless support structure.

DECORATIVE POLE. A pole, arch, or structure other than a street light pole placed in the public way specifically designed and placed for aesthetic purposes and on which no appurtenances or attachments have been placed except for any of the following:

- (1) Electric lighting;
- (2) Specially designed informational or directional signage;
- (3) Temporary holiday or special event attachments.

DESIGN GUIDELINES. Means those detailed design guidelines, specifications and examples promulgated by the City Manager for the design and installation of small cell facilities and wireless support structures, which are effective insofar as they do not conflict with federal and state law, rule and regulations.

ELIGIBLE FACILITIES REQUEST. Means the same as defined by the FCC in 47 U.S.C. 1455 (a)(2), as may be amended, which defines that term as any request for modification of an existing support structure that does not substantially change the physical dimensions of such support structure, involving:

- (1) Collocation of new small cell facilities;
- (2) Removal of small cell facilities; or
- (3) Replacement of small cell facilities.

FRANCHISE AUTHORITY. See **CABLE FRANCHISE**.

FCC. The U.S. Federal Communications Commission and any legally appointed, designated, or elected agent or successor.

HISTORIC DISTRICT. A building, property, or site, or group of buildings, properties, or sites that are either of the following:

- (1) Listed in the national register of historic places or formally determined eligible for listing by the keeper of the national register, the individual who has been delegated the authority by the federal agency to list properties and determine their eligibility for the national register, in accordance with section VI.D.1.a.i-v of the nationwide programmatic agreement codified at 47 C.F.R. part 1, Appendix C;
- (2) A registered historic district as defined in section 149.311 of the Revised Code.

Generally, the portion of the Architectural Review District referred to as Historic Dublin, and as defined by §153.170.

MICRO WIRELESS FACILITY. A small cell facility that is not more than twenty-four inches in length, fifteen inches in width, and twelve inches in height and that does not have an exterior antenna more than eleven inches in length suspended on cable strung between wireless support structures.

OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES or OMUTCD. The uniform system of traffic control devices promulgated by the Ohio Department of Transportation.

OCCUPY OR USE. With respect to the right-of-way, to place a tangible thing in the right-of-way for any purpose, including, but not limited to, constructing, repairing, positioning, maintaining, or operating lines, poles, pipes, conduits, ducts, equipment, or other structures, appurtenances, or facilities necessary for the delivery of public utility services or any services provided by a cable operator.

OPERATOR. A wireless service provider, cable operator, or a video service provider that operates a small cell facility and provides wireless service. For the purpose of §§99.20 through 99.29, “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(20), and services that are fixed in nature or use unlicensed spectrum.

PERSON. Any natural person, corporation, or partnership and also includes any governmental entity.

PUBLIC UTILITY or UTILITY. A facilities-based provider of wireless service to one or more end users in this state, or any company described in section 4905.03 of the Ohio Revised Code and as further defined in section 4905.02 of the Ohio Revised Code, including but not limited to the following types of companies: telephone, electric light, gas, natural gas, pipe-lines, water-works, and sewage disposal systems.

RIGHT-OF-WAY. The surface of and the space above and below the paved or unpaved portions of any public street, public road, public highway, public freeway, public lane, public path, public bikepath, public way, public alley, public court, public sidewalk, public boulevard, public parkway, public drive and any other land dedicated or otherwise designated for the same now or hereafter held by the city “Right-of-way” shall not include private easements or public property, except to the extent the use or occupation of public property is specifically granted in a right-of-way permit or by administrative regulation.

RIGHT OF WAY PERMIT, GENERAL. A permit issued by the City, subject to Chapter 98, to persons who desire and are granted authority to utilize rights-of-way generally.

RIGHT OF WAY PERMIT, SMALL CELL. Means a permit issued by the City for the collocation, construction, maintenance, operation, or replacement of small cell facility(ies) and/or wireless support structures in, along, across, upon and under the right-of-way.

SMALL CELL FACILITY. A wireless facility that meets both of the following requirements:

- (1) 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.
- (2) All other wireless equipment associated with the facility is cumulatively not more than twenty-eight 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.

SUBSTANTIAL CHANGE: Has the same meaning as described in 47 C.F.R. §1.40001(b)(7).

TOLLING or TOLL PERIOD. The pausing or delaying of the running of a required time period.

UTILITY POLE. 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.

VIDEO SERVICE PROVIDER. A person granted a video service authorization under sections 1332.21 to 1332.34 of the Ohio Revised Code.

WIRELESS FACILITY.

- (1) Equipment at a fixed location that enables wireless communications between user equipment and a communications network, including all of the following:
 - (a) Equipment associated with wireless communications;
 - (b) Radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supplies, and comparable equipment, regardless of technological configuration.
- (2) The term includes small cell facilities.
- (3) The term does not include any of the following:
 - (a) The structure or improvements on, under, or within which the equipment is collocated;
 - (b) Coaxial or fiber-optic cable that is between wireless support structures or utility poles or that is otherwise not immediately adjacent to or directly associated with a particular antenna.

WIRELESS SERVICE. Any services using licensed or unlicensed wireless spectrum, whether at a fixed location or mobile, provided to the public using wireless facilities.

WIRELESS SERVICE PROVIDER. A person who provides wireless service as defined herein.

WIRELESS SUPPORT STRUCTURE. A pole, street light pole, traffic signal pole, a fifteen-foot or taller sign pole, or utility pole capable of supporting small cell facilities, excluding utility poles or other facilities used to supply traction power to public transit systems, including railways, trams, streetcars, and trolleybuses.

WIRELINE BACKHAUL FACILITY. A facility used for the transport of communications service or any other electronic communications by coaxial, fiber-optic cable, or any other wire.

§99.23 APPLICATION REQUIRED

- (A) *General Requirements.* The following requirements shall apply to all small cell facilities and wireless support structures proposed within the right-of-way.
 - (1) No person shall occupy or use the right-of-way except in accordance with law.
 - (2) In occupying or using the right-of-way, no person shall unreasonably compromise the public health, safety, and welfare.

- (3) No person shall occupy or use the right-of-way without first obtaining, under this chapter, Chapter 98, or section 1332.24 or 4939.031 of the Ohio Revised Code, any requisite consent of the city. Before placing small cell facilities or wireless support structures in the right-of-way, an operator must apply for and receive a general right-of-way permit under sections 98.03 and 98.04(C). If the operator's sole activities in the right-of-way will consist solely of collocating small cell facilities, constructing, modifying, or replacing new wireless support structures and associated small cell facilities, removing such facilities, or eligible facilities requests, then the operator shall not be required to pay the annual fee for general right-of-way permittees provided in section 98.07. This provision shall not be construed to waive application fees or any other construction or work permit necessary for work in the City.

(B) *Pre-Application Conference.*

- (1) *Purpose.* Applicants are strongly encouraged to contact the city and request a pre-application conference. This meeting will provide an opportunity for early coordination regarding proposed small cell facilities and wireless support structure locations and design, and the application submittal and review process, in order to avoid any potential delays in the processing of an application and deployment of small cell facilities and wireless support structures in the city.
- (2) *Appointment Required.* An appointment is required for all pre-application conferences. Applicants must contact the designated city staff member as noted on the application form, who will provide applicants an appointment with all applicable city representatives in a timely manner.

(C) *Application Required.* In accordance with federal and state law and the city code, an operator may apply to the city to collocate a small cell facility on an existing wireless support structure and to construct, maintain, modify, operate, or replace wireless support structures in, along, across, upon, and under the city rights-of-way. Anyone seeking to collocate a small cell facility on an existing wireless support structure and/ or to construct, maintain, modify, operate, or replace wireless support structures in, along, across, upon, and under the city rights-of-way shall first duly file a written application with the city, in accordance with the requirements in this section and additional requirements set forth in the Design Guidelines as modified from time to time by the City Manager.

(D) *Required Application Materials.* Unless otherwise required by state or federal law, all applicants shall submit to the city materials and information associated with each application as outlined in the Design Guidelines in order for the application to be considered complete.

§99.24 APPLICATION REVIEW TIMEFRAMES AND PROCESS

(A) *Permit Application Review Timeframes.*

- (1) *Collocation of Small Cell Facilities on Existing Wireless Support Structures.* The city shall grant or deny its consent for requests to collocate, or to replace or modify a small cell facility on, or associated with, an existing wireless support structure not later than ninety days after the date of filing by an entity of a completed application.
- (2) *New Wireless Support Structures and Associated Small Cell Facilities.* The city shall grant or deny its consent for requests to construct, modify, or replace a wireless support structure associated with a small cell facility within the right-of-way not later than one hundred twenty days after the date of filing by an entity of a completed application.

(3) *Wireless Support Structure and/or Small Cell Facilities Removal.* The city shall grant or deny its consent for requests to remove wireless support structures associated with small cell facilities from the right-of-way typical to the review timeframes for the General Right-of-Way Permit required for this activity.

(4) *Eligible Facilities Request.* The city shall approve Eligible Facilities Requests in accordance with Ohio Revised Code Chapter 4939, 47 C.F.R. §1.40001, and §§99.20 through 99.29 herein not later than sixty days after the date of filing by an entity of a submitted application.

(B) *Failure to grant or deny within prescribed timeframes.* If the city fails to approve or deny a request for consent under this section or a request for a relevant work permit within the timeframes required under §99.24(A), provided the time period is not tolled under §99.24(D) or extended with the written consent of the applicant and the Director, the request shall be deemed granted upon the requesting entity providing notice to the city that the time period for acting on the request has lapsed.

(C) *Application denials.*

(1) The city shall not unreasonably withhold or deny consent for small cell facilities and wireless support structures within the right-of-way.

(2) If a request for consent is denied, the city shall provide in writing its reasons for denying the request, supported by substantial, competent evidence, and such information as the applicant may reasonably request to obtain consent. The denial of consent shall not unreasonably discriminate against the entity requesting the consent.

(3) Except in the case of a public utility subject to the jurisdiction and recognized on the rolls of the public utilities commission or of a cable operator possessing a valid franchise awarded pursuant to the "Cable Communications Policy Act of 1984," 98 Stat. 2779, 47 U.S.C.A. 541, the city, for good cause shown, may withhold, deny, or delay its consent to any person based upon the person's failure to possess the financial, technical, and managerial resources necessary to protect the public health, safety, and welfare.

(D) *Tolling of required timeframes.*

(1) The time periods required in §99.24(A) may be tolled only:

(a) By mutual agreement between the entity requesting consent and the city;

(b) In cases where the city determines that the application is incomplete; or

(c) If the number of requests for consent for small cell facilities or wireless support structures received is likely to result in difficulty processing applications within the time limits set forth in §99.24(A) due to the lack of resources of the city, then the city may toll the time limits as follows:

1. The time period may be tolled for up to twenty-one days for the first fifteen small cell facility or wireless support structure requests received by the city above the thresholds provided in the Table below within any consecutive thirty-day period:

Population of city at time Small Cell Facility or Wireless Support Structure Applications are received:	Number of Applications:
30,000 persons or less	15 applications or more
30,001 to 40,000 persons	20 applications or more
40,001 to 50,000 persons	25 applications or more
50,001 to 60,000 persons	30 applications or more
60,001 to 100,000 persons	60 applications or more

2. Further, for every additional fifteen requests that the city receives above the thresholds provided in the Table above the city may toll the time period for those requests for up to fifteen days in addition to the time period provided in division (1)(c)(1) of this section.
 3. In no instance shall the city toll the time period for any small cell facility or wireless support structure request by more than ninety consecutive days. Upon request, the city shall provide an operator written notice of the time limit for a small cell facility or wireless support structure request.
- (2) To toll the time period for incompleteness, the city shall provide written notice to the person requesting consent not later than thirty days after receiving the request, clearly and specifically delineating all missing documents or information. The missing documents or information shall be reasonably related to determining whether the request meets the requirements of applicable federal and state law. Any notice of incompleteness requiring other information or documentation, including information of the type described in section 4939.0313 of the Ohio Revised Code or documentation intended to illustrate the need for the request or to justify the business decision for the request, in accordance with state and federal law, does not toll the time period for incompleteness.
- (3) The time period for granting or denying consent resumes when the entity makes a supplemental submission in response to the city's notice of incompleteness.
- (4) If a supplemental submission is inadequate, the city shall notify the entity not later than ten days after receiving the supplemental submission that the supplemental submission did not provide the information identified in the original notice that delineated missing documents or information. The time period may be tolled in the case of second or subsequent notices under the procedures identified in divisions (1) to (3) of this section. Second or subsequent notices of incompleteness may not specify missing documents or information that was not delineated in the original notice of incompleteness.

(E) *Consolidated application for multiple small cell facilities and/or wireless support structures.*

- (1) Applicants seeking to construct, modify, collocate, or replace more than one small cell facility or more than one wireless support structure may file, at the applicant's discretion, a consolidated application for up to 30 small cell facility requests or up to 30 wireless support structure requests in a single application and receive a single permit for the construction, modification, collocation, or replacement of the small cell facilities or wireless support structures subject to the following:
 - (a) This single application may be filed for multiple small cell facilities or multiple wireless support structures only if they are of substantially the same type.

- (b) The city may separately address small cell facility collocations or wireless support structures for which incomplete information has been received or which are denied.
- (2) In the case of a consolidated application, the fees provided for in section 4939.0316 of the Ohio Revised Code and §99.23 may be cumulative. However, the city, at its discretion may opt to reduce such fees in order to encourage consolidated application submittals.
- (3) In the case of a consolidated application, each small cell facility or wireless support structure proposed to be constructed, modified, collocated on, or replaced shall constitute a separate request for consent for purposes of tolling the response deadline as authorized under section 4939.036 of the Ohio Revised Code and §99.24(D)(1) herein. A request by a single operator for a new or replacement wireless support structure and associated small cell facility constitutes one request.

(F) *Timeframe for completion of permit.*

- (1) Collocations of small cell facilities on existing wireless support structures and the construction of new wireless support structures and/or associated small cell facilities for which permits have been granted shall be completed by the operator or its agent within one hundred eighty days after issuance of the permit, unless:
 - (a) The city and the operator agree to extend this period; or
 - (b) A delay is caused by make-ready work for a city-owned wireless support structure or decorative pole or by the lack of commercial power or backhaul availability at the site, provided that:
 - 1. The operator has made a timely request within sixty days after the issuance of the permit for commercial power or backhaul services; and
 - 2. The additional time to complete installation does not exceed three hundred sixty days after issuance of the permit.
- (2) If divisions (1)(a) and (b) of this section cannot be met, the permit shall be void unless the city grants an extension in writing to the operator.

(G) *Small Cell Facility and Wireless Support Structure activities not requiring consent.*

- (1) City consent shall not be required for either of the following activities conducted in the right-of-way:
 - (a) Routine maintenance of wireless facilities;
 - (b) The replacement of wireless facilities with wireless facilities that are consistent with the city's current design requirements and guidelines and that are either:
 - 1. Substantially similar to the existing wireless facilities; or

2. The same size or smaller than the existing wireless facilities.
- (2) The city may require a General Right-of-Way Permit for any activity described in division (1) of this section and for any activity for which consent is authorized herein and in accordance with state and federal law.

§99.25 DESIGN GUIDELINES

- (A) The City Manager shall promulgate detailed Design Guidelines with objective, technically feasible criteria applied in a non-discriminatory manner that reasonably match the aesthetics and character of the immediate area regarding all of the following, which the city shall consider in reviewing an application:
 - (1) The location of any ground-mounted small cell facilities;
 - (2) The location of a small cell facility on a wireless support structure;
 - (3) The appearance and concealment of small cell facilities, including those relating to materials used for arranging, screening, and landscaping;
 - (4) The design and appearance of a wireless support structure.
- (B) The Design Guidelines shall provide examples of small cell facilities preferences including visual depictions.
- (C) The provisions in this section shall not limit or prohibit the City Manager's discretion to promulgate and make publicly available other information, materials or requirements in addition to, and separate from, Design Guidelines so long as the information, materials, or requirements do not conflict with state or federal law.
- (D) The City Manager shall have authority to update or supplement the Design Guidelines to address relevant changes in law, technology, or administrative processes. In the event of any conflict between the Design Guidelines and the standards articulated in §§99.20 through 99.29 of this chapter of the City of Dublin Code of Ordinances, the language of §§99.20 through 99.29 shall take precedence over the language of the Design Guidelines.

§99.26 STANDARD CONDITIONS OF PERMIT APPROVAL

- (A) *Standard conditions of approval.* Permission to site small cell facilities and wireless support structures in the right-of-way shall be conditioned on compliance with the standard conditions of approval provided in this §99.26. The City Manager or his or her designee may add or modify conditions of approval as necessary or appropriate to protect and promote the public health, safety, and welfare.
- (B) *Small Cell Facility Permit duration.* The city's approval term of an attachment to a wireless support structure shall be for a period of not less than ten years, with presumption of renewal for successive five-year terms, subject to terms providing for early termination or nonrenewal for cause or by mutual agreement and unless otherwise agreed to by both the operator and the city, except for generally applied permitting to safeguard the public health, safety, and welfare. An operator may remove its small cell facilities at any time subject to applicable permit requirements and may stop paying annual charges or fees under §99.26(N).

(C) *Compliance with all applicable laws.*

- (1) Permittee shall at all times maintain compliance with all applicable federal, state and local laws, regulations, ordinances, or other rules.
- (2) If state or federal standards and regulations are amended, the owners of the small cell facilities and/or wireless support structures governed by this chapter shall bring any facilities and/or structures into compliance with the revised standards and regulations within six months of the effective date of the standards and regulations, unless a different compliance schedule is mandated by the regulating agency. Failure to bring small cell facilities and/or wireless support structures into compliance with any revised standards and regulations shall constitute grounds for removal at the owner's expense.

(D) *Inspections; emergencies.* The city or its designee may inspect small cell facilities and wireless support structures in the right-of-way upon reasonable notice to the permittee. The permittee shall cooperate with all inspections. The city reserves the right to support, repair, disable, or remove any elements of the facility in emergencies or when the facility threatens imminent harm to persons or property.

(E) *Relocation or adjustment as requested by city.* If requested by the city, in order to accomplish construction and maintenance activities directly related to improvements for the health, safety, and welfare of the public, an operator shall relocate or adjust its facilities within the right-of-way at no cost to the city, as long as such request similarly binds all users in or on such public way. Such relocation or adjustment shall be completed in accordance with law.

(F) *Contact information for responsible parties.* Permittee shall at all times maintain accurate contact information for all parties responsible for the facility, which shall include a phone number, street mailing address, and email address for at least one natural person. All such contact information for responsible parties shall be provided to the Department of Public Works.

(G) *Indemnification.* Any operator who owns or operates small cell facilities or wireless support structures in the right-of-way shall indemnify, protect, defend, and hold the city and its elected officials, officers, employees, agents, and volunteers harmless against any and all claims, lawsuits, judgments, costs, liens, losses, expenses, fees to include reasonable attorney fees and costs of defense, proceedings, actions, demands, causes of action, liability and suits of any kind and nature, including personal or bodily injury or death, property damage or other harm for which recovery of damages is sought, to the extent that it is caused by the negligence of the operator who owns or operates small cell facilities and wireless service in the right-of-way, any agent, officer, director, representative, employee, affiliate, or subcontractor of the operator, or their respective officers, agents, employees, directors, or representatives while installing, repairing, or maintaining facilities in the right-of-way.

(H) *Interference with public safety radio services.* In occupying or using the right-of-way, no person shall unreasonably compromise the public health, safety, and welfare. Permittees shall comply with the applicable provisions of 47 CFR §§ 22.970-973 and 47 CFR §§ 90.672-675 respectively, which define unacceptable interference, state the obligations of licensees to abate unacceptable interference, provide interference resolution procedures, and set forth a discretionary information exchange between public safety licensees and other licensees.

(I) *Adverse physical impacts on adjacent properties.* Permittee shall undertake all reasonable efforts to avoid undue adverse physical impacts to adjacent properties and/or uses that may arise from the

construction, operation, maintenance, modification, or removal of the small cell facility and/or wireless support structure.

- (J) *Good condition required.* Small cell facilities and wireless support structures shall at all times be kept and maintained in good condition, order, and repair by qualified maintenance and construction personnel, so that the same shall not menace or endanger the health, safety or welfare of any person or property. Examples of poor condition include, but are not limited to: peeling, flaking, or blistered paint; rust or other visible deterioration of materials; or failure to maintain required landscape screening. All small cell facilities and wireless support structures shall be subject to generally applicable property maintenance requirements and to visual inspection by code enforcement officers. Notices of violation shall be served as provided in the Property Maintenance Code. The notice shall provide that the operator has 20 days from date of service of the notice to appeal the notice or remedy it. If that time expires without appeal or remedy to the satisfaction of the City, the City may remedy the violation and charge the costs of said remedy to the operator.
- (K) *Graffiti abatement.* Permittee shall remove any graffiti on the small cell facility at permittee's sole expense.
- (L) *RF exposure compliance.* All facilities must comply with all standards and regulations of the FCC and any other state or federal government agency with the authority to regulate RF exposure standards.
- (M) *Relocation for public improvement projects.* Permittee shall remove and relocate the permitted small cell facility and/or wireless support structure at permittee's sole expense to accommodate construction of a public improvement project by the City.
- (N) *Removal of small cell facilities if use discontinued or abandoned.*
 - (1) In the event that the use of a small cell facility and/or wireless support structure is discontinued, the owner or operator of the small cell facility and/ or wireless support structure shall submit a request for consent to remove the wireless support structure or small cell facility, as provided in section 99.24(A)(3), which shall serve as the notice required by §98.12 to the city of its intent to discontinue use and the date when the use shall be discontinued. If the small cell facility and/or wireless support structure is not removed within 365 days of discontinued use, the small cell facility and/ or wireless support structure shall be considered abandoned and the city may remove it at the owner's expense.
 - (2) Small cell facilities and wireless support structures determined by the city to be abandoned without notice from the owner may be removed by the city at the owner's expense to ensure the public health, safety, and welfare.
 - (3) The City reserves the right to inspect and to request information from the operator, which the operator shall provide following such request, as to the continued use of the operator's small cell facility(ies) or wireless support structure(s) within the right-of-way.

§99.27 SAFETY REQUIREMENTS

- (A) *Prevention of failures and accidents.* Any person who owns a small cell facility and/or wireless support structure sited in the right-of-way shall at all times employ ordinary and reasonable care and

install and maintain in use industry standard technology for preventing failures and accidents which are likely to cause damage, injury, or nuisance to the public.

- (B) *Compliance with fire safety and FCC regulations.* Small cell facilities, wires, cables, fixtures, and other equipment shall be installed and maintained in substantial compliance with the requirements of the National Electric Code, all FCC, state, and local regulations, and in such manner that will not interfere with the use of other property.
- (C) *Surety bond or equivalent financial tool for cost of removal.* All owners must procure and provide to the city a bond, or must provide proof of an equivalent financial mechanism, to ensure compliance with all provisions of §§99.20 through 99.29. The bond or equivalent financial method must specifically cover the cost of removal of unused or abandoned small cell facilities and/ or wireless support structures or damage to city property caused by an operator or its agent of each small cell facility and/ or wireless support structure in case the city has to remove or pay for its removal. Two acceptable alternatives to a bond include a funds set-aside and a letter of credit.

§99.28 RECOVERY OF COSTS

- (A) *Application processing fee.* For processing an application for consent, the city may charge a fee for each small cell facility and wireless support structure requested as prescribed under section 4939.0316 of the Ohio Revised Code and as listed on the associated application forms which shall be made available by the Department of Public Works. The city may adjust this fee ten per cent every five years, rounded to the nearest five dollars.
- (B) *Annual collocation fee.* For reimbursement for operator's attachment of small cell facilities to wireless support structures owned or operated by the city and located in the right-of-way, the city may charge an annual fee as prescribed in 4939.022 of the Ohio Revised Code and as listed on associated application forms which shall be made available by the Department of Public Works. The city may adjust this fee ten per cent every five years, rounded to the nearest five dollars.
- (C) *Tax liabilities and assessments not applicable.* Placement of small cell facilities in the right-of-way or attachment of small cell facilities to a wireless support structure and any fees associated therewith shall not subject the city to any state or local tax liabilities or assessments.

§99.29 SEVERABILITY

The provisions of §§99.20 through 99.29 of this chapter are severable. If any provision or subsection, or the application of any provision or subsection to any person or circumstances is held invalid, the remaining provisions, subsection, and applications of such ordinance to other persons or circumstances shall not be made invalid as well. It is declared to be the intent of this section that the remaining provisions would have been adopted had such invalid provisions not been included in this chapter when originally adopted by Council.

§99.99 PENALTY

- (A) In addition to any other penalties set forth in this chapter, any person or permittee violating any section in this chapter shall be guilty of a minor misdemeanor. Each day the violation continues shall be deemed a separate offense.

- (B) Nothing herein shall prevent the city from taking any other lawful action, including civil actions at law or equity, including temporary restraining orders, preliminary injunctions and permanent injunctions, as is necessary to prevent or remedy any violations.

CHAPTER 99: WIRELESS COMMUNICATIONS REGULATIONS

Towers and Wireless Communications Facilities

Section

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- 99.02 Objectives
- 99.03 Applicability
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Small Cell Facilities and Wireless Support Structures within the Right-of-Way

Section

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TOWERS AND WIRELESS COMMUNICATIONS FACILITIES

§99.01 PURPOSE AND INTENT.

- (A) The purpose of ~~this chapter~~ §§99.01 through 99.11 is to regulate the placement, construction, and modification of towers and wireless communications facilities to protect the health, safety and welfare of the public, while at the same time not unreasonably interfering with the development of a competitive wireless communications marketplace in the city.

- (B) The city's intent is to encourage wireless communications service providers that seek to further the following city priorities:
 - (1) Co-locate on/with other existing towers/structures/facilities or locate on existing structures.
 - (2) Require new towers and other related structures to accommodate multiple users wherever practicable.
 - (3) Locate towers in the least obtrusive locations and manner using present and evolving technology.

- (4) Minimize adverse health, safety, public welfare, and visual impacts through co-location, siting, design, and construction, while upholding the purposes and objectives of this chapter.

§99.02 OBJECTIVES.

The following are the city's objectives regarding wireless communication regulations:

- (A) To comply with the Telecommunications Act of 1996, as amended, including any subsequent rules and/or rule interpretations by appropriate state and federal agencies and/or courts.
- (B) To work proactively with wireless communications providers to ensure rapid and reliable deployment of their services/technologies, while minimizing negative effects on the city.
- (C) To ensure that the location of towers and wireless communications facilities in the city provide appropriate wireless communication coverage consistent with these objectives.
- (D) To allow, under certain conditions, appropriate city-owned property and structures to be used for wireless communications facilities.
- (E) To minimize adverse visual impacts of towers and wireless communications facilities through careful design, siting, landscaping, and innovative camouflaging techniques.
- (F) To promote and encourage shared use/co-location of towers and antenna support structures as a primary option rather than construction of additional single-use towers.
- (G) To ensure towers and wireless communications facilities are soundly and carefully designed, constructed, modified, maintained, and removed when no longer in use.
- (H) To ensure to the maximum extent practicable that towers and wireless communications facilities are compatible with surrounding and nearby land uses.
- (I) To ensure to the maximum extent practicable that proposed towers and wireless communications facilities are placed in locations that are designed to preserve adjacent natural settings and in a manner consistent with existing and planned development patterns.

§99.03 APPLICABILITY.

- (A) All towers, antenna support structures, and wireless communications facilities, any portions of which are located within the city, are subject to ~~this chapter §§99.01 through 99.11, unless such facilities are small cell facilities or wireless support structures located in city right-of-way, in which case §§99.20 through 99.29 of the Code shall apply. Nothing herein supersedes the applicability of Ohio Revised Code §4939 to small cell facilities and wireless support structures in the city right-of-way. Underlying zoning district regulations and other provisions of the Code shall still apply to wireless communication facilities when not superseded by §§99.20 through 99.29 of the Code, or §4939 of the Ohio Revised Code. Any wireless overlay zone shall not apply to small cell facilities and wireless support structures in the right-of-way. In the case of conflict with other provisions of the Code, with the exception of §§99.20 through 99.29 of the Code, the provisions of this §§99.01 through 99.11 shall control.~~ Wireless communications facilities and antenna support structures shall be regulated and permitted pursuant to ~~this chapter §§99.01 through 99.11~~ and shall not be interpreted, regulated, or permitted as essential services, public utilities, or private utilities.

- (B) Except as provided in this chapter, any approved use of a nonconforming tower or antenna support structure on the effective date of this chapter shall be allowed to continue, even if in conflict with the terms of this chapter, but shall not be expanded, reconstructed, or modified unless in conformance with this chapter, as required in § 99.09.
- (C) Should any provision of this chapter conflict with any other provision of the Code, the strictest provision shall prevail.
- (D) ~~This chapter Sections 99.01 through 99.11~~ and the various sub-sections and clauses thereof, are hereby declared to be severable. If any part, sentence, paragraph, section, clause, or word is adjudged unconstitutional or invalid for any reason, by any court of competent jurisdiction, the invalidity shall not affect the remaining portions or applications of this chapter which shall be given effect without the invalid portion or application, provided those remaining portions are not determined by the court to be invalid.

§99.04 DEFINITIONS.

(A) *General use of terms.*

- (1) The terms, phrases, words, and their derivations used in ~~this chapter §§99.01 through 99.11~~ of this chapter shall have the meanings given in this section.
- (2) When consistent with the context, words used in the present tense also include the future tense; words in the plural number include the singular number; and words in the singular number include the plural number.
- (3) All terms used in the definition of any other term shall have their meaning as otherwise defined in this section.
- (4) The words "shall" and "will" are mandatory and "may" is permissive.
- (5) Words not defined shall be given their common and ordinary meaning.

(B) *Defined terms.* The definitions provided in this subsection shall apply for purposes of §§99.01 through 99.11:

ADMINISTRATIVE REVIEW TEAM or ART. Members of city staff listed in §99.06 or their designated representatives, and others appointed by the City Manager as deemed necessary.

ALTERNATIVE TOWER STRUCTURE. Includes, but is not limited to man-made trees, clock towers, bell steeples, light poles, power poles, and similar alternative-design mounting structures or other buildings or structures that are intended to camouflage or conceal the presence of antennas, towers, and other wireless communications facilities.

ANTENNA. Any transmitting or receiving device used in communications that radiate or capture electromagnetic waves, digital signals, analog signals, radio frequencies, wireless communications signals, or other communication signals.

ANTENNA SUPPORT STRUCTURE. Any building or structure other than a tower which can be used for the location of wireless communications facilities.

APPLICANT. Any person that applies for administrative review, conditional use review, certificate of zoning plan approval, or other permit or approval according to the requirements of §§99.01 through 99.11 of this chapter.

APPLICATION. The materials and process by which an applicant submits a request as authorized by the property owner and indicates a desire to be granted approval of an antenna, tower, antenna support structure, or any other wireless communications facility under the provisions of §§99.01 through 99.11 of this chapter. An application includes all written documentation, verbal statements, and representations, in whatever form or forum, made by an applicant to the city concerning the request, but shall not include materials submitted as part of a request for non-binding pre-application review.

ARCHITECTURAL REVIEW BOARD or **ARB.** The Architectural Review Board of the city, as created by §153.172 of this Code of Ordinances.

ARCHITECTURAL REVIEW DISTRICT. The Architectural Review District of the city. The term may also be used to refer to Ohio Historic Inventory Properties as provided in §153.170 of this Code of Ordinances, where appropriate.

BACKHAUL NETWORK. The infrastructure that connects a provider's wireless communications facility sites to one or more cellular telephone switching offices, and/or long distance providers, or the public switched telephone network.

BOARD OF ZONING APPEALS or **BZA.** The Board of Zoning Appeals for the city, as created by the Dublin City Charter, Article VII.

CABLE MICROCELL NETWORK or **CMN.** A wireless telecommunications facility characterized by small antennas and equipment cabinets, and typically located on a small diameter monopole; on an existing or replacement street light, power pole, sign, or other suitable structure; or on an existing building.

CELLULAR-ON-WHEELS or **COW.** A temporary mobile wireless communications facility that consists of a wireless antenna tower and associated equipment on a truck, trailer, or other mobile structure designed to be part of a wireless network.

CHIEF BUILDING OFFICIAL. The Chief Building Official of the city.

CITY. The City of Dublin, Ohio.

CITY ENGINEER. The City Engineer of the city.

CODE. The Code of Ordinances of the city.

CO-LOCATION. The use of, or ability to use, a wireless communications facility or support structure by more than one wireless communications provider or more than one wireless antenna array.

CONDITIONAL USE. A use allowed in a zoning district after approval of the Planning and Zoning Commission according to the provisions of §153.236 of this Code of Ordinances.

COUNCIL. The City Council of the city.

DIRECTOR. The Director of Land Use and Long Range Planning of the city, or a designee.

DISTRIBUTED ANTENNA SYSTEM or DAS. A network of spatially separated antenna nodes connected to a common source via a transport medium that provides wireless service within a geographic area or structure which also may or may not contain fiber optic transport and/or landline components.

DISTRICT or ZONING DISTRICT or ZONE DISTRICT. A portion of the city within which certain uses of land and/or buildings are permitted and under the regulations and requirements of Chapter 153 of this Code of Ordinances.

EMERGENCY. A reasonably unforeseen occurrence with a potential to endanger personal safety or health, or cause substantial damage to property, that calls for immediate action, mitigation, or abatement.

ENGINEER. Any engineer currently licensed by the State of Ohio.

EQUIPMENT SHELTER or EQUIPMENT CABINET. The structure in which the electronic receiving and relay equipment or other necessary equipment for a wireless communications facility is located.

FAA. The U.S. Federal Aviation Administration, and any legally appointed, designated, or elected agent or successor.

FCC. The U.S. Federal Communications Commission and any legally appointed, designated, or elected agent or successor.

HEIGHT or ABOVE GROUND LEVEL or AGL. When referring to a tower or other structure, the distance measured from the finished grade at the base of the tower or structure to the highest point on the tower or structure, including the base pad and any antenna, but not including lightning arrest devices.

MONOPOLE. A support structure constructed of a single, self-supporting hollow metal tube securely anchored to a foundation.

MULTI-USE TOWER. A self-supporting lattice, guyed, or monopole structure constructed from grade which supports more than one wireless communications facility.

NONCONFORMING TOWER. Any tower or antenna lawfully existing at the effective date of or amendment to [§§99.01 through 99.11 of](#) this chapter which does not currently conform to the requirements of [§§99.01 through 99.11 of](#) this chapter.

PERSON. Any individual, firm, partnership, association, corporation, company, or other legal entity, private or public, whether for profit or not-for-profit.

PLANNING AND ZONING COMMISSION or **PZC**. The Planning and Zoning Commission for the city, as created by the City Charter, Article VII.

RECONSTRUCTED TOWER. A tower which is removed in whole or in part and replaced in whole or in part. For the purposes of §§99.01 through 99.11 of this chapter, a reconstructed tower is a tower for which approvals have been granted in accordance with the provisions of §§99.01 through 99.11 of this chapter. The term and its use shall not apply to nonconforming towers.

RECORD OF DETERMINATION. The official written record of action by the Administrative Review Team.

SMALL CELL FACILITY. A wireless facility that meets both of the following requirements:

- (1) Each antenna is located inside an enclosure of not more than six (6) 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.
- (2) All other wireless equipment associated with the facility is cumulatively not more than twenty-eight (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.

STEALTH. A wireless communications facility designed to appear as another natural or artificial object that exists in the surrounding environment or which is architecturally integrated into a building or other structure, and designed to be minimally obtrusive and to camouflage or conceal the presence of antennas or towers, at the determination of the required reviewing body.

TEMPORARY WIRELESS COMMUNICATIONS FACILITIES. A cellular-on-wheels unit; an antenna on a bucket truck, crane, crank-up tower, tower; or another wireless communications facility required to evaluate a site for a temporary placement of a wireless communications facility as permitted by §§99.01 through 99.11 of this chapter or for providing communications during an emergency, special event, conference, or other situations for limited periods while the use of a permanent wireless communication facility is temporarily interrupted.

TOWER. Any structure designed and constructed primarily for the purpose of supporting one or more antennas for telephone, radio, and similar communication purposes, including self-supporting lattice towers, guyed towers, or monopole towers. The term includes radio and television transmission towers, microwave towers, common-carrier towers, wireless communications towers, alternative tower structures, and the like. The term includes the structure and any necessary supports.

WIRELESS COMMUNICATIONS FACILITIES or **WCF**. Includes, but shall not be limited to, towers, poles, cables, wires, lines, wave guides, antennas, microwave dishes, small cell facilities and wireless support structures, and/or any other equipment or facilities associated with the transmission or reception of communications as regulated by the FCC (or other unregulated wireless communication facility). The term shall not include:

- (a) Any satellite earth station antenna two meters or less in diameter or diagonal measurement located in a non-residential district. (§153.095(B)(3) and (4) shall be applicable.)
- (b) Any satellite earth station antenna one meter or less in diameter or diagonal measurement that is designed to receive direct broadband satellite service, including direct-to-home satellite services, or to receive or transmit fixed wireless signals via satellite regardless of zoning category. (§153.095(B) shall be applicable.)
- (c) Any antenna that is one meter or less in diameter or diagonal measurement and is designed to receive video programming service via broadband video services (wireless cable) or to receive or transmit fixed wireless signals other than via satellite.
- (d) Any antenna that is designed to receive local television broadcast signals and does not use a mast higher than 12 feet above the tallest point of the roof of the tallest principal or accessory structure, excluding chimneys, cupolas, or other architectural elements.
- (e) Antennas used by amateur radio operators (§153.096(A) shall be applicable).
- (f) Towers, structures, antennas, or other equipment used for the purposes of operating a public safety voice or data radio network or an outdoor early warning system within the city limits. This includes directional and omnidirectional antenna equipment, as well as microwave and point-to-point equipment.

WIRELESS SUPPORT STRUCTURE. A pole, street light pole, traffic signal pole, a fifteen-foot or taller sign pole, or utility pole capable of supporting small cell facilities, excluding utility poles or other facilities used to supply traction power to public transit systems, including railways, trams, streetcars, and trolleybuses.

§99.05 GENERAL REQUIREMENTS.

- (A) Wireless communications facilities, where permitted, shall be subject to administrative review or conditional use review in the zoning districts specified in Chapter 153 of this Code of Ordinances, contingent upon meeting the requirements of this chapter and Chapter 153, and other applicable ordinances of the city. Certain facilities as specified in this chapter shall be subject to review by the Architectural Review Board in accordance with §99.11.
Collocation of small cell facilities in, along, across, upon, and under the city right-of-way, and construction, maintenance, modification, operation, or replacement of wireless support structures in, along, across, upon, and under the city right-of-way, as defined in §99.22, are subject to the requirements of §§99.20 through 99.29 of this chapter and are not otherwise subject to zoning review or approval.
- (B) The following table summarizes the city's zoning districts and approval procedures applicable to the facilities regulated by §§99.01 through 99.11 of this chapter.
 - (1) Administrative review: See §99.06.

(2) Conditional use review: See §99.07.

(3) Architectural Review Board: See §99.11.

<i>Zoning District (exclusive of small cell facilities and/or wireless support structures in the right-of- way)</i>	<i>Approval Procedures</i>			
	<i>Co-Location¹</i>	<i>New Tower</i>	<i>Alternative Structure²</i>	<i>Temporary Facilities</i>
Rural and Residential	Administrative ⁴	Not Permitted	Conditional Use ⁴	See §99.10
Commercial (except Suburban Office and Institutional and Neighborhood Commercial)	Administrative	Conditional Use	Administrative ³	See §99.10
Suburban Office and Institutional; Neighborhood Commercial	Administrative	Not Permitted	Administrative ³	See §99.10
Limited and General Industrial, Technology Flex	Administrative	Conditional Use	Administrative ³	See §99.10
OLR and Restricted Industrial	Administrative	Not Permitted	Administrative ³	See §99.10
Innovation Zone	Administrative	Conditional Use	Administrative ³	See §99.10
Bridge Street Corridor	Administrative	Conditional Use	Administrative ³	See §99.10
Planned Districts (except Planned Industrial Park)	Administrative	Conditional Use	Administrative or Conditional Use ⁵	See §99.10
Planned Industrial Park	Administrative	Conditional Use	Administrative ³	See §99.10
Architectural Review District	ARB Approval	Not Permitted	ARB Approval	See §99.10

¹Co-location on existing antenna support structures or towers.

²The intent of alternative tower structures is to camouflage the tower/antenna installation.

³If the Director determines that the essential criterion of footnote 2, above, has not been met, the application for administrative review and certificate of zoning plan approval shall be denied. The

applicant may submit an application for conditional use review by the Planning and Zoning Commission. (See § 99.07)

⁴Co-location on properties in the Rural District or Residential zoning districts and owned by the City of Dublin, Washington Township, or Dublin City Schools shall be subject to administrative review. (See §99.06)

⁵Applications involving a request to install an alternative structure on a property zoned PUD, Planned Unit Development District allowing residential uses shall be subject to conditional use review. (See §99.07)

(C) *General requirements.* The following requirements shall apply to all wireless communications facilities in any zoning district, with the exception of small cell facilities and wireless support structures in the city right-of-way in accordance with §§99.20 through 99.29. These requirements shall be in addition to the regulations of the specific zoning districts in §99.05(B).

(1) *Application.* The following information must be submitted for all applications required by §§99.01 through 99.11 of this chapter unless deemed unnecessary by the Director. An application is not considered complete until all required materials have been submitted and accepted by the city. If an application is determined to be incomplete, the Director shall promptly notify the applicant of the information necessary to complete the application. The Director or the ART may request additional information if deemed reasonably relevant to the consideration of the application.

(a) Completed application form and application fee.

(b) A scaled and dimensioned site plan (not less than one inch equals 50 feet) clearly indicating the following:

1. Location, type and height of the proposed wireless communications facility;
2. The existing or proposed lease area and parcel boundaries for the site;
3. On-site land uses and zoning, and adjacent land uses and zoning (including land in other municipalities);
4. Adjacent roadways and rights-of-way;
5. Any buildings within 100 feet of the property boundaries;
6. Proposed means of pedestrian and/or vehicular access as applicable to the type of facility;
7. The setback distance between the proposed wireless communications facility, equipment shelters and/or cabinets, and the nearest property line;
8. Elevation drawings of the proposed wireless communications facilities, including material specifications for all associated site improvements; and
9. Any other proposed improvements, including but not limited to structures, grading, tree removals and replacement, topography, parking, and other information necessary to determine compliance with §§99.01 through 99.11 of this chapter.

(c) Legal description and/or property survey of the parent tract and leased parcel (if applicable).

(d) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, the separation distance from other existing and planned wireless communications facilities shall be shown on a map, and shall include

latitudinal and longitudinal location coordinates. The applicant shall also identify the type of construction of the existing wireless communications facilities and the owner/operators of the existing facilities, if known.

- (e) A landscape plan showing proposed landscape materials and quantities, locations, installation sizes, and other information necessary to determine compliance with the landscape requirements of Chapter 153 of this Code of Ordinances.
- (f) Location and method of screening structures, if any, including height, material, style, and color; and, if applicable, the method of camouflage and illumination. Specification sheets shall be required for all prefabricated site elements.
- (g) A statement of compliance with the applicable requirements of this chapter and all applicable federal, state or local laws, including those of the FCC and FAA.
- (h) Twenty-four hour emergency contact information and contact information for the entities providing the backhaul network for the wireless communications facilities described in the application and other wireless communications sites owned or operated by the applicant in the municipality. Contact information for the tower owner, operator, and emergency contact shall be kept current and on file with the city at all times.
- (i) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, a statement by the applicant and/or a structural analysis sealed by an engineer affirming that the construction of the wireless communications facility will accommodate co-location of additional antennas for future users as applicable.
- (j) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, a statement from an engineer of the ability or inability to use existing towers, other structures, or alternative technology not requiring the use of towers or structures, to provide the services planned for the use of the proposed wireless communications facility.
- (k) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, an inventory of any existing and approved towers, antennas, alternative tower structures, antenna support structures, and existing wireless support structures and small cell facilities that are either within the jurisdiction or within two miles of the border of the city, with latitudinal and longitudinal location coordinates. The city may share this information with other applicants under this chapter or other organizations seeking to locate towers or antennas within the jurisdiction of Dublin or other communities. However, the city is not, by sharing this information, in any way representing or warranting that the sites are available or suitable. The inventory of each tower and antenna shall include:
 - 1. A map showing each location, by address and/or parcel identification number, including straight-line distances between each facility;
 - 2. Facility height and design;
 - 3. Facility owner(s)/operator(s); and
 - 4. Co-location capability of each facility, including alternative tower structures and antenna support structures.

(2) *Application procedures.*

- (a) Applications for all wireless communications facilities, except for applications for the collocation of small cell facility and the construction, maintenance, modification, operation, or replacement of wireless support structures in, along, across, upon, and under the city rights-of-way that are subject to §§99.20 through 99.29 of this chapter, shall be submitted in accordance with §§99.05 through 99.07, as applicable.
 - (b) The applicant shall pay a non-refundable fee as established by the city.
 - (c) When practicable, application for approval of multiple towers and/or antenna sites by a single owner of towers and antennas shall be submitted as a single application or multiple applications submitted at the same time.
 - (d) *Historic Register/District.* Any application to locate a wireless communications facility on a building or structure that is listed on a federal or state historic register or within the Architectural Review District shall be subject to review by the Architectural Review Board in accordance with § 99.11, in addition to any other required review procedures.
 - (e) *Public property.* Approval by the City Manager or his or her designee shall be required for any applications involving structures to be located on property owned by the city, except for applications for small cell facilities and/ or wireless support structures in the public right-of-way, which are governed by §§99.20 through 99.29.
- (3) *Wireless communications facility support structures.* Towers, antennas, antenna support structures, and all other improvements associated with a wireless communications facility subject to §§99.01 through 99.11 of this chapter shall meet the following requirements:
- (a) *Design.* All wireless communication facility support structures shall have a monopole, unipole, or similar non-lattice single vertical structure design and shall be further designed to accommodate at least two wireless communication arrays of antennas or panels, unless otherwise required by the required reviewing body. The applicant shall submit an affidavit by an engineer licensed in the State of Ohio attesting that these requirements are met.
 - (b) *Color and finish.* Towers, antennas, other wireless communications facility support structures, and supporting electrical and mechanical equipment shall either maintain a non-contrasting gray or similar color or have a galvanized steel finish unless otherwise required by the required reviewing body or any applicable standards of the FAA and/or the Ohio Department of Transportation. Alternative tower structures may maintain another color or finish if determined by the required reviewing body to be necessary to establish a stealth appearance and be aesthetically and architecturally compatible with the surrounding environment.
 - (c) *Compatible design.* The design of buildings and related structures for the wireless communications facility shall use materials, colors, textures, and screening so as to be aesthetically and architecturally compatible with the surrounding environment, as approved by the required reviewing body.
 - (d) *Antenna color.* If an antenna is installed on a structure other than a tower, the antenna and supporting electrical and mechanical equipment must be a neutral color that is identical to, or closely compatible with, the color of the supporting structure so as to make the antenna and related equipment as visually unobtrusive as practicable, as determined by the required reviewing body.

- (e) *Lighting.* Facilities shall not be artificially lighted, unless required by the FAA or other applicable authority. If lighting is required, the lighting fixtures and installation must cause the least disturbance to views from surrounding properties. Alternative tower structures may be lighted if determined by the required reviewing body to be necessary to establish a stealth appearance and to be aesthetically and architecturally compatible with the surrounding environment.
- (f) *Maximum height.* Wireless communications facilities subject to §§99.01 through 99.11 of this chapter shall meet the following height requirements:
1. In residential zoning districts, up to 80 feet;
 2. In all other zoning districts, up to 120 feet, provided that the facility is designed to be co-locatable for more than one additional carrier. In no case shall a wireless communications facility, including antenna, exceed 120 feet, as measured from grade at the base of the tower, unless the required reviewing body determines that conditions present in the vicinity require a taller structure in order to function.
 3. For wireless communications facilities locating on a structure or building, antenna shall not extend more than 20 feet above the highest point of the main roof deck or supporting structure if the antenna is located on a structure other than a roofed building.
 4. Unless otherwise required herein, alternative tower structures may exceed 120 feet if determined by the required reviewing body to be necessary to establish a stealth or camouflaged appearance that is aesthetically and architecturally compatible with the surrounding environment.
 5. Unless otherwise specified, maximum height exceeding the provisions of division (C)(3)(f)l-4 of this section shall require conditional use review under the provisions of § 99.07.
 6. As an exception to division (C)(3)(f)l-5 of this section, users locating on a city water tank are exempt from the height requirements of this chapter, but facilities shall be no taller than functionally necessary.
- (g) *Co-location.* Unless physically or technically infeasible, all wireless communications facilities shall be constructed or reconstructed to accommodate two or more users.
1. In connection with any application for certificate of zoning plan approval, in order to encourage co-location, an existing tower meeting co-location requirements that is lower than the height permitted above may be reconstructed to meet the maximum heights permitted after receiving approval from the required reviewing body. Additionally, reconstructed towers may be required to be brought into conformance in whole or in part if the existing tower is determined by the Director to be nonconforming.
 2. A wireless communications facility which is being rebuilt to accommodate the location of additional antennas may be relocated on the same site, after receiving approval from the required reviewing body, provided it meets the setback requirements of this chapter.
 3. Co-location requirements may be waived if the required reviewing body determines that the fees, costs, or contractual provisions required by the owner in order to share an existing tower or structure or to adapt an existing tower or structure for sharing are unreasonable. Costs that would exceed new tower

development are an example of what may be determined to be unreasonable. Satisfactory and substantial information must be submitted by the applicant demonstrating that the costs are unreasonable.

- (4) *Site requirements.* Wireless communications facilities subject to §§99.01 through 99.11 of this chapter and associated site improvements shall be sited and developed in accordance with the following requirements:
- (a) *Setback and siting requirements.*
1. The setback requirements shall be met for all elements of the wireless communications facility, supporting structure, and equipment.
 2. A minimum setback of 100 feet from all property lines shall apply to new towers and/or alternative tower structures unless a greater setback for principal structures is required by the zoning district in which the tower is to be located. In determining the required setbacks and lot area, the entire site, including all lots or parcels used for the tower, supporting structures, and equipment, shall be considered, even though the antennas or towers may be located on leased portions within the prescribed lot area.
 3. The required reviewing body may permit a reduced setback for alternative tower structures provided that the reduced setback is required for the function or purpose of that structure and not for the purposes of the tower/antenna location.
 4. The required reviewing body may permit a reduced setback for all other wireless communications facilities if the location is required for the function of the tower or antenna and no other reasonable alternative location exists. Satisfactory and substantial information must be submitted by the applicant demonstrating that all other locations are unreasonable.
 5. Refer to division (C)(5) of this section for regulations pertaining to the siting of equipment associated with wireless communications facilities.
- (b) *Screening.* Screening shall comply with applicable requirements of Chapter 153 of this Code of Ordinances. Fencing or other materials used for screening of wireless communications facilities or associated equipment shall be at least one foot higher than the structure(s) it is intended to screen, but shall not exceed 12 feet.
- (c) *Landscaping.* Buffer plantings shall be located on the site to screen adjacent properties and the base of the wireless communications facility and associated equipment from adjacent properties and rights-of-way in accordance with the landscape requirements of §§99.01 through 99.11 of this chapter and Chapter 153 of this Code of Ordinances.
- (d) *Sign.* One sign shall be posted in a visible location on the tower, alternative tower structure, fence, equipment shelter, or other associated equipment indicating the owner of the facility, and an emergency contact and phone number. The sign shall not exceed two square feet and shall be approved as part of the building permit or certificate of zoning plan approval. All other signs shall comply with the requirements of Chapter 153 of this Code of Ordinances.
- (5) *Equipment shelters and cabinets.*
- (a) *Design and screening.*

1. Equipment cabinets or structures used in association with antennas shall be designed and/or painted to minimize visual impact.
 2. Evergreen plant material shall be used for screening and shall be planted to ensure that the equipment will be screened to its full height within three years of planting.
 3. Existing mature tree growth and natural land forms on the site shall be preserved to the maximum extent possible. In some cases, such as towers sited on large, wooded lots, the required reviewing body may determine that natural growth around the property may be a sufficient buffer.
 4. At the required reviewing body's determination, alternative screening materials may be used in cases where plant material is not appropriate.
- (b) *Underground equipment shelters.* Underground equipment shelters will be required by the required reviewing body where equipment shelters are located on properties that are readily visible from adjacent streets and lots and where landscape screening is not effective.
- (c) *Roof- and/or structure-mounted antennas.* The equipment cabinet or structure used in association with antennas shall comply with applicable building codes. Additionally, equipment shall be sited, designed, and/or painted to minimize visual impact and be screened so that it is not visible from ground level.
- (d) *Utility- or light pole-mounted antennas.* The equipment cabinet or structure used in association with antennas shall be located in accordance with the following:
1. In all zoning districts, the equipment cabinet or structure shall comply with all applicable setbacks required by the zoning district in which it is located.
 2. If the proposed antenna mounted on a utility or light pole is located within an existing easement, the applicant shall obtain a separate easement encroachment agreement as required by the City Engineer.
- (e) *Tower-mounted antennas.* As an exception to division (C)(5)(b) of this section, where the required reviewing body determines that underground equipment shelters are not feasible due to site conditions or other considerations, equipment shelters designed using materials permitted for principal structures within the zoning district shall be provided where applicable. The unmanned equipment structure shall not exceed the maximum height for principal structures and comply with setbacks required by the zoning district in which the shelter is located.
- (6) *Code compliance and permit requirements.*
- (a) *Construction permits.* The installation of any wireless communications facility shall require compliance with all applicable federal, state, and local regulations and the securing of all applicable zoning and building permits and inspections. All towers and associated wireless communications facilities subject to §§99.01 through 99.11 of this chapter require a certificate of zoning plan approval and applicable building permits prior to installation.
- (b) *State or federal requirements.*
1. All wireless communications facilities shall meet or exceed current standards and regulations of the FAA, the FCC, and any other agency of the state or federal government with the authority to regulate towers and antennas.

2. If state or federal standards and regulations are amended, the owners of the wireless communications facilities governed by §§99.01 through 99.11 of this chapter shall bring any facilities into compliance with the revised standards and regulations within six months of the effective date of the standards and regulations, unless a different compliance schedule is mandated by the regulating agency. Failure to bring wireless communications facilities into compliance with any revised standards and regulations shall constitute grounds for removal at the owner's expense.
- (c) *Building codes and safety standards.*
1. To ensure the structural integrity of towers, the owner of a tower and/or antenna support structure shall ensure that it is designed, constructed, and maintained in compliance with requirements contained in applicable state or local building codes and the applicable requirements for towers and antenna support structures that are published by the Electronics Industries Association, as amended from time to time.
 2. If, upon inspection, the city concludes that a wireless communications facility fails to comply with any applicable codes and requirements and constitutes a danger to persons or property, after written notice to the owner, the owner shall have not more than 30 days to bring the facility into compliance with those requirements. Failure to bring the facility into compliance within the required time shall be grounds for removal at the owner's expense.
- (d) *License to operate.* Owners and/or operators of wireless communications facilities shall maintain and submit copies of all approved franchises, certifications, licenses, and permits required by law for the design, construction, location, and operation of wireless communications facilities in Dublin. Evidence of renewal or extensions shall be promptly provided to the Director.
- (e) *Certification.* Any information of an engineering nature required by this chapter, whether civil, mechanical, or electrical, shall be certified by a licensed engineer.

§99.06 ADMINISTRATIVE REVIEW.

(A) General provisions.

(1) Administrative Review Team (ART).

- (a) The purpose of the Administrative Review Team is to provide for review and approval authority for certain wireless communications facilities ~~as required by this chapter~~. The Administrative Review Team is responsible for the comprehensive review of each application submitted in accordance with §§99.01 through 99.11 of this chapter, and making recommendations to the Planning and Zoning Commission, Architectural Review Board, or Board of Zoning Appeals where required.
- (b) The Administrative Review Team shall consist of the Director (Chair), City Engineer, Fire Chief, Economic Development Manager, Parks and Open Space Director, Police Chief, and Chief Building Official, or their representatives, and any other members appointed by the City Manager as deemed necessary, either as permanent or temporary members.
- (c) The Administrative Review Team may use the services of other professionals, such as architectural, engineering, and other consultants as they deem necessary, to advise the ART on the application of the provisions of §§99.01 through 99.11 of this chapter.

- (2) An application for administrative review shall be made in accordance with the requirements of § 99.05(C)(1) and (C)(2).
 - (3) *Public reviews.* Where public reviews are required by §§99.01 through 99.11 of this chapter, a written notice of the public meeting shall be sent to the applicant, property owner, and owners of parcels of land within 300 feet of the subject parcel(s), as listed on the County Auditor's current tax list, not less than ten days prior to the meeting. The notice shall, at a minimum, indicate the property that is the subject of the request, describe the nature of the request, the time, date, and location of the meeting at which the application will be considered, and indicate when and where written comments will be received concerning the request.
 - (4) *Time extensions.*
 - (a) Where the provisions of §§99.01 through 99.11 of this chapter require that an action be taken by the city within a stated period of time, that time may be extended with the written consent of both the applicant and the Director prior to expiration of the required time period.
 - (b) If the applicant submits a revised application during any required review period, and the Director determines that the revised application differs substantially from the previous application, a new review period shall begin and additional meetings of the required reviewing body may be scheduled if deemed necessary by the Director.
 - (5) *Duration of approvals.* Approvals of requests for administrative review made in accordance with §§99.01 through 99.11 of this chapter shall be valid for a period of one year. If an initial building permit for the approved facility has not been issued within that one year period, the applicant shall be required to submit a new request for administrative review, as applicable, pursuant to §§99.01 through 99.11 of this chapter before obtaining a building permit.
 - (6) *Resubmission.* No application for administrative review which has been denied by the required reviewing body shall be resubmitted for a period of one year from the date of the decision, unless permitted by the Director after a demonstration by the applicant of a change of circumstances from the previous application that may reasonably result in a different decision.
- (B) *Pre-application review.*
- (1) *Purpose and applicability.*
 - (a) At the option of the applicant, a pre-application review may be scheduled prior to filing a formal application for administrative review. The pre-application review is not part of the formal application review process or the required review period. The purpose of the pre-application review is to provide non-binding feedback to applicants to assist in expediting the administrative review process. Any materials submitted to

the city for the purposes of the pre-application review shall become part of the public record.

- (b) Pre-application reviews do not result in a development decision or permit, and shall not obligate the city or the applicant to take any action on the proposal.

(2) *Pre-application review procedure.*

- (a) A request for a pre-application review shall be made in accordance with the provisions of this division (B). As an exception to the application requirements listed in § 99.05(C)(1), potential applicants may submit conceptual information based on the amount of information known about the project at the time a request for pre-application review is made. The request shall include, at a minimum, ten copies of the following information:
 - 1. A general description of the proposal including a description of conformance to §§99.01 through 99.11 of this chapter;
 - 2. A site plan generally demonstrating the nature of the proposed wireless communications facility and associated site improvements;
 - 3. Conceptual facility elevations; and
 - 4. Any other materials for which the potential applicant would like to receive feedback.
- (b) The city shall notify the applicant in writing at least five days prior to the pre-application review.
- (c) The Administrative Review Team and other applicable departments shall be promptly notified of the Administrative Review Team pre-application review. Prior to the meeting the Director shall distribute the submitted materials to the Administrative Review Team and other applicable city departments for input and recommendations.
- (d) The Administrative Review Team shall review the submitted materials and provide non-binding input and recommendations. The ART shall complete its review of the application not more than 14 days from the date the request was submitted.
- (e) A written summary of comments and suggestions made during the pre-application review shall be provided to the applicant not more than ten days after the pre-application review.

(C) *Administrative review.*

(1) *Purpose and applicability.*

- (a) The purpose of the administrative review is to ensure that wireless communications facilities meet the applicable requirements of §§99.01 through 99.11 of this chapter.
- (b) Administrative review is required for all new wireless facilities, co-locations, and all modifications to existing facilities as required by §99.05(B). Cable microcell networks and distributed antenna systems that do not require the use of towers shall also be subject to administrative review.
- (c) Temporary wireless facilities shall meet all application and approval requirements of §99.10.

- (2) *Administrative review considerations.* The Administrative Review Team shall render a decision on an application for administrative review based on the following considerations:
- (a) Antennas locating on an existing building or other antenna support structure other than a tower may be approved as a use accessory to any commercial, industrial, professional, office, institutional, or similar structure, provided:
 - 1. The antenna is designed to be as unobtrusive as possible;
 - 2. The antenna does not extend more than 20 feet above the highest point of the main roof deck or supporting structure if the antenna is located on a structure other than a roofed building; and
 - 3. The antenna complies with the applicable provisions of § 99.05.
 - (b) Co-located antennas on existing or reconstructed towers may be approved provided the color and design of the antenna is consistent with the existing tower and is designed to be as unobtrusive as possible.
 - 1. The Administrative Review Team shall approve co-located antennas on a tower in instances where proposed co-location does not substantially change the physical dimensions of the tower and meets the requirements of §§99.01 through 99.11 of this chapter.
 - (c) Alternative tower structures may be approved in accordance with the following:
 - 1. The required reviewing body may approve the location of an alternative tower structure provided the site meets the purpose, objectives and applicable requirements of §§99.01 through 99.11 of this chapter.
 - 2. The objective of administrative review for alternative tower structures is to encourage ingenuity and the use of innovative methods to camouflage these facilities. If the application is denied by the Administrative Review Team following a finding that the proposed facilities have not been reasonably disguised or camouflaged, the applicant may file an application for conditional use review in accordance with §99.07.
 - (d) Cable microcell network or distributed antenna systems using multiple low-powered transmitters/receivers attached to existing wireline systems, such as conventional cable or telephone wires, or similar technologies/mechanisms may be approved provided that the use of towers is not required and all other applicable provisions §§99.01 through 99.11 of this chapter have been satisfied.
- (3) *Decisions.*
- (a) Any application required by §§99.01 through 99.11 of this chapter to be reviewed under the provisions of this section shall be approved, approved with conditions, or denied by the Administrative Review Team based on the applicable review standards as provided in §§99.01 through 99.11 of this chapter not more than 28 days from the receipt of a completed application. The Administrative Review Team shall state the reasons for their decisions in the minutes and provide a written record of the decision to the applicant not more than ten days after a recommendation or decision is made, unless otherwise provided in §§99.01 through 99.11 of this chapter.
 - (b) Prior to reaching a decision, if the Administrative Review Team determines that an application does not meet the applicable review standards as provided in §§99.01

through 99.11 of this chapter, but determines that the application could meet those criteria with modifications that could not be reasonably conditioned, the applicant may request that the application be tabled to provide the opportunity to make those modifications. If the request for tabling is granted, a new review period shall begin on the date the applicant submits a complete application with revised materials and shall be subject to the timeframe for rendering a decision as provided in division (C)(3)(a) of this section.

- (c) Following the approval of an application for administrative review, the applicant may proceed with the process for obtaining a certificate of zoning plan approval and building permit, consistent with the approval as granted. All construction and development under any building permit shall comply with the approval, as applicable.

- (4) *Certificate of zoning plan approval.* A certificate of zoning plan approval issued by the Director verifying compliance with all applicable zoning requirements is required prior to modification, extension, or alteration of wireless communications facilities that are subject to §§99.01 through 99.11 of this chapter.

(D) *Administrative departures.*

- (1) *Purpose and applicability.* The intent of this division (D) is to provide an administrative process to allow minor deviations from the strict application of requirements of §§99.01 through 99.11 of this chapter caused by unusual site or development conditions or other similar conditions that require reasonable adjustments, but remain consistent with the intent of §§99.01 through 99.11 of this chapter. Examples include, but are not limited to, adjustments to wireless communications facility setbacks, landscaping and screening, or other similar features or elements.
- (2) *Review procedure.*
- (a) An application for administrative departure may be submitted with an application for administrative review, or at any time after an application has been submitted and before a decision or recommendation by the Administrative Review Team has been made. If an application for administrative departure is made after an application for administrative review has been filed, the Director may require that the time period for administrative review start over on the day the request for an administrative departure is received.
- (b) An application for an administrative departure may be processed simultaneously with the application for administrative review to which it relates. The Administrative Review Team shall determine whether each requested administrative departure is approved, approved with conditions, or denied.
- (c) Should the Administrative Review Team find that the request does not meet the criteria for an administrative departure, the applicant may file for a variance in accordance with § 153.231 of this Code of Ordinances, or submit a new application for administrative review.
- (3) *Criteria for administrative departure approval.* The Administrative Review Team shall make its decision on an administrative departure based on the following criteria:

- (a) The need for the administrative departure is caused by unique site conditions, conditions on surrounding properties, and is not being requested simply to reduce cost or as a matter of general convenience;
 - (b) The administrative departure does not have the effect of authorizing any wireless communications facility type that is not otherwise permitted in that zoning district;
 - (c) The administrative departure does not modify any numerical development standard by more than 10% of the requirement; and
 - (d) The administrative departure, if approved, will ensure that the wireless communications facility is of equal or greater development quality with respect to design, material, and other features than without the administrative departure.
- (E) *Appeals*. The determination rendered by the Administrative Review Team may be appealed to the Board of Zoning Appeals within 20 days of the decision by any person aggrieved by the decision. The Appeal shall be filed with the city, specifying the grounds, in conformance with §153.231 of this Code of Ordinances.
- (1) An appeal shall stay all proceedings in furtherance of the action appealed from unless the Director certifies to the Board of Zoning Appeals, after notice of appeal has been filed, that, by reason of the facts stated in the record of determination, a stay would cause imminent peril to life or property. In this case, the proceedings shall not be stayed other than by a restraining order, which may be granted by a court of record.
 - (2) In deciding the appeal, the Board of Zoning Appeals shall determine, in conformance with §153.231(F) of this Code of Ordinances, whether the decision was made using the proper requirements and standards of §§99.01 through 99.11 of this chapter. The decision of the Board of Zoning Appeals is limited to the information that was available to the Administrative Review Team for the initial decision, including any materials included as part of the written record of the decision. Additional testimony is not appropriate.
 - (3) If the Board of Zoning Appeals determines that the Administrative Review Team made an improper decision the Board may reverse or affirm, wholly or partly, or may modify the order, requirement, decision or determination appealed from, and may make an order, requirement, decision, or determination as ought to be made, and to that end shall have all the powers of the Administrative Review Team.
 - (4) The findings of the Board of Zoning Appeals shall be based on and supported by substantial evidence contained in a Board Order, which shall be forwarded to the applicant within ten days following the final determination.
 - (5) The decision of the Board of Zoning Appeals may be further appealed to City Council within ten days of the Board's decision.
 - (6) City Council must determine whether to hear the appeal, in its sole discretion by a motion passed by a majority vote, no later than 21 days following the Clerk of City Council's receipt of the written notice of appeal, unless an extended time is agreed upon by the City Manager and the applicant.
 - (7) City Council shall decide the appeal no later than 28 days following the date of Council's decision to hear the appeal, unless an extended time is otherwise agreed upon by the City Manager and the applicant. In considering the appeal, City Council may consider any evidence and may affirm, reverse, or otherwise modify the decision of the Board of Zoning Appeals or any other part of the application.

(F) *Concurrent application review.*

- (1) Applications for building permits, electrical permits, other applicable permits, and certificates of zoning plan approval associated with the building permit application process may be submitted with the application for administrative review and may be processed and reviewed concurrently with the administrative review application if desired by the applicant.
- (2) Review of the building permit applications and zoning approvals described in division (F)(1) of this section shall be subject to the statutory timing requirements that apply to building permit application reviews. Accordingly, the applicant should consider the nature and complexity of the request prior to submitting for concurrent review.
- (3) Requests for certificates of zoning plan approval and building permits for wireless facilities cannot be approved for zoning compliance until an affirmative record of determination of the Administrative Review Team and all other zoning approvals are obtained and attached to the appropriate building permit documents.

§99.07 CONDITIONAL USE REVIEW.

(A) *Applications.* Applications for conditional use review for towers or antennas shall be reviewed by the Planning and Zoning Commission, as required by §99.05, subject to the procedures and requirements of §153.236 of this Code of Ordinances, except as modified in this section.

(B) *Conditional use review considerations.* In addition to any standards for consideration of applications for conditional use review pursuant to §153.236 of this Code of Ordinances, the Planning and Zoning Commission shall consider the following factors in determining whether the application should be approved:

- (1) Compliance with the requirements of ~~§§99.01 through 99.11~~ of this chapter;
- (2) Height of the proposed tower or facility and its proximity to residential structures and residential districts;
- (3) Nature of the potential for adverse effects on uses on adjacent and nearby properties;
- (4) Relationship of surrounding topography to the view from nearby properties;
- (5) Surrounding tree coverage and foliage and the ability to screen the facilities from the view of nearby properties;
- (6) Design of the tower or facility, with particular regard to design characteristics that have the effect of reducing or eliminating visual obtrusiveness;
- (7) Proposed ingress and egress for maintenance, safety, and prohibition of nuisances;
- (8) Availability of suitable existing towers, other structures, or alternative technologies not requiring the use of towers or structures, with regard to the following:
 - (a) New towers shall be approved only when other preferable alternatives are not available. No new tower shall be permitted unless the applicant demonstrates to the reasonable satisfaction of the Commission that no existing tower, structure, or alternative technology is available to fill the communication requirements.
 - (b) An applicant shall submit required information for review by the Planning and Zoning Commission related to the availability of suitable existing towers, other structures, or alternative technology. Evidence submitted to demonstrate that no existing tower,

structure, or alternative technology can accommodate the applicant's proposed antenna may consist of any of the following:

1. No existing towers or other suitable structures are located within the specific geographic limits meeting the applicant's engineering requirements.
2. Existing towers or structures either do not have sufficient height to meet the applicant's engineering requirements, or have insufficient structural strength to support the applicant's proposed antenna and related equipment.
3. The applicant's proposed antenna would cause frequency interference with the antenna on the existing towers or structures, or the antenna on the existing towers or structures would cause interference with the applicant's proposed antenna.
4. The fees, costs, or contractual provisions required by the owner in order to share or to adapt for sharing an existing tower or structure, are unreasonable. Costs that would exceed new tower development is an example of what may be presumed to be unreasonable.
5. The applicant demonstrates that there are other limiting factors that render existing towers and structures unsuitable.
6. The applicant demonstrates that an alternative technology that does not require the use of towers or structures, such as a DAS or CMN using multiple low-powered transmitters/receivers attached to a wireline system, is unsuitable. Costs of alternative technology that exceed new tower or antenna development shall not be presumed to render the technology unsuitable, but may be considered as a factor in the decision.
7. The applicant provides documentation that other tower owners were contacted in writing demonstrating the above considerations.

(C) In granting a conditional use, the Planning and Zoning Commission may impose conditions to the extent necessary to minimize any adverse effect of the proposed tower or antenna support structure on adjoining properties or to meet the review considerations of this section.

(D) The findings and decision of the Planning and Zoning Commission shall be based on and supported by substantial evidence contained in a written record and record of action which shall be forwarded to the applicant within ten days following the decision. The decision of the Planning and Zoning Commission shall be final.

§99.08 ABANDONMENT OF WIRELESS COMMUNICATIONS FACILITIES.

(A) *Abandonment.*

- (1) All providers utilizing wireless communications facilities shall notify the city in writing of the location and date that any tower facility located in the city whose use will be discontinued. If the use of the facility is discontinued for 180 days without notice from the owner/operator or the owner of the property, the City Manager may declare the facility to be abandoned (this excludes any dormancy period between construction and the initial use of the facility). The facility's owner/operator and property owner will receive written notice from the city and be instructed to either reactivate the facility's use within 180 days, or dismantle and remove the facility.

- (2) If reactivation or dismantling does not occur as described in division (A)(1) above, the city will either remove or cause the facility and associated structures to be removed and assess the costs to the owner/operator and property owner. In the case of a multi-use tower or wireless communications facility, this provision does not become effective until all users cease use of the tower or facility. However, the city may cause the abandoned portions of systems on the multi-use tower or facility to be removed in accordance with this provision.
- (B) Before initiating action to remove the facility, the city must provide the owner of the tower or wireless communications facility and the property owner 90 days written notice and an opportunity to be heard before the Board of Zoning Appeals to appeal the decision. After this notice has been provided, or following a determination by the Board of Zoning Appeals that the tower or facility has been abandoned, the city may take whatever action that is lawful to order the removal or demolition of the tower or facility and all appurtenances.
- (C) If the removal is appealed, a public hearing will be held before the Board of Zoning Appeals following the 90-day notice required in division (B) of this section. All interested parties shall be allowed an opportunity to be heard at the public hearing.
- (D) After a public hearing is requested by the tower or wireless communications facility owner and held pursuant to division (C) of this section, the Board of Zoning Appeals may recommend that the City Manager order the removal or demolition of the tower. The city may require the tower or facility owner or former owner to pay for all expenses necessary to remove or demolish the tower or facility.

§99.09 NONCONFORMING TOWERS OR WIRELESS COMMUNICATION FACILITIES.

- (A) *Conforming use.* Wireless communication facilities that are constructed in accordance with the provisions of §§99.01 through 99.11 of this chapter shall be deemed conforming uses or structures, regardless of their date of construction. This shall be the case even when new facilities are added to a nonconforming installation, provided that any new facilities meet the requirements of §§99.01 through 99.11 of this chapter.
- (B) *Existing towers.* Towers already in existence shall be allowed to continue their use as they exist as of the date of the adoption or amendment of §§99.01 through 99.11 of this chapter. Routine maintenance (including replacement with a new tower of like construction and height serving the same purpose) shall be permitted. A replacement tower must be constructed within 180 days of removal of the initial facility unless the owner demonstrates that meeting this requirement is not possible due to conditions not reasonably within their control. The Director may permit new construction and/or equipment replacement, other than routine maintenance on an existing tower, provided it complies with the requirements of this chapter and applicable requirements of Chapter 153 of this Code of Ordinances to the extent that existing conditions permit.
- (C) *Damaged or destroyed nonconforming wireless communications facilities.* Notwithstanding this section, nonconforming wireless communications facilities that are damaged or

destroyed by actions outside the owner's control may be rebuilt without having to first obtain administrative review or a conditional use approval. Any other permits applicable to construction or reconstruction must be obtained. The type, height, and location of the wireless communications facility shall be the same as the original approved facility and constructed in accordance with currently applicable building codes. Permits for construction shall be obtained within 180 days from the date the facility is damaged or destroyed, and reconstruction shall be started within six months from the time of damage and shall be continued until completed. If no permit for construction is obtained, or if an issued permit expires, the facility shall be deemed abandoned as specified in § 99.08.

§99.10 TEMPORARY WIRELESS COMMUNICATIONS FACILITIES.

(A) *General.* Temporary wireless communications facilities may be approved as provided for in §§99.01 through 99.11 of this chapter to:

- (1) Allow communications providers to administer limited frequency and modulation testing to evaluate system performance and the need for additional wireless communications facility sites. Any approval shall not exceed 30 days.
- (2) Allow communications providers to supplement communications coverage when a previously permitted wireless communications facility has become involuntarily non-operational through an accident or force majeure. Any approval shall not exceed 30 days.
- (3) Address a substantial increase in the communications needs of the businesses, residents, and visitors of the city for a limited period of time in circumstances where an emergency has been declared by the city, state or federal government. The approval shall not extend beyond the time of the declared emergency.
- (4) Address a substantial increase in the communications needs of the businesses, residents, and visitors of the city for a limited period of time in circumstances when large conferences or special events are held within the city limits. The approval shall not exceed 14 days.
- (5) Allow providers to maintain uninterrupted wireless communication service through the use of temporary wireless facilities during extended periods of time due to substantial maintenance or capital projects undertaken or caused by the city. The approval shall not exceed the duration agreed to by the city and the affected wireless provider(s).
- (6) Allow providers to maintain uninterrupted wireless communication service resulting from what the Director determines to be unforeseen circumstances and/or needs for temporary alternative wireless communication facilities. The approval shall not exceed the duration agreed to by the city and the affected wireless provider(s).
- (7) The Director may permit one extension equal to the time periods permitted above, provided the extension is requested in writing prior to the expiration of the original approval period. Extensions may be granted provided the Director finds that the extension is reasonably necessary to resolve or accommodate the reasons for the original approval.

(B) *Application and approval.*

- (1) Due to the emergency nature often associated with temporary wireless facilities, authority to locate a temporary wireless communications facility in the city will be subject to the approval of the Director after review by any other members of the Administrative Review

- Team that the Director deems necessary following receipt of a completed application for a temporary wireless communications facility.
- (2) A temporary wireless communications facility may only be approved by the city for the limited purposes and time periods described in division (A) of this section.
 - (3) Except as authorized by the Director during declared emergencies, all approved temporary wireless communications facilities shall:
 - (a) Be limited in height by the requirements of the zoning district in which the site is located. The Director may permit a greater height if the height is required for the function of the temporary wireless communications facility and no other reasonable alternative exists.
 - (b) Be set back a minimum of 100 feet from any adjoining or adjacent property line, as measured from the nearest part of the facility and/or any associated equipment. The Director may permit a lesser setback if the location is required for the function of the temporary wireless communications facility and no other reasonable alternative location exists.
 - (c) Minimize the visual impact of ground equipment to adjoining or adjacent properties.
 - (d) Provide temporary screening as may be required by the Director, such as available natural land formations, plant materials, and natural foliage to effectively screen from view as much of the temporary wireless communications facility as reasonably possible.
 - (e) Only commence installation at the approved site 48 hours before actual site use may begin.
 - (f) Be completely removed from the approved site with all site restoration finalized and returned to previously existing conditions within 48 hours following the required termination deadline or extension.
 - (g) Not use an electric, gas, or other type of generator that causes or permits any noise to emanate from it in a manner, intensity, and/or duration to create unreasonable noise or sound audible from a distance of 50 feet, and causes inconvenience and annoyance to persons of ordinary sensibilities.
 - (h) Not be illuminated unless otherwise required by the FCC or the FAA.
 - (i) Be required to comply with the applicable provisions of § 99.05(C)(3) and all applicable federal, state or local laws.
 - (4) Applications for the location of a temporary wireless communications facility shall include the following, unless deemed unnecessary by the Director:
 - (a) A statement of authorization from the owner of the real property upon which the temporary wireless communications facility is proposed to be located that authorizes the location of the temporary wireless communications facility.
 - (b) A list of all property owners and registered homeowners associations and their addresses within 150 feet of the proposed temporary wireless communications facility site. The city may require the applicant to provide adjacent property owners with a descriptive notice of the proposed temporary wireless communications facility, site plan, and the anticipated dates of operation.

- (c) A description of the proposed facility and all associated equipment, including structural design, proposed height, color, location, fencing and/or screening, and approximate setback from property lines.
- (d) Typical elevations or photographs indicating the general appearance of the temporary facility.
- (e) A site plan or aerial photo generally indicating the location and setbacks of the temporary facility.
- (f) Any other information that the Director may deem reasonably necessary to adequately evaluate the request.

§99.11 ARCHITECTURAL REVIEW.

- (A) *Applications.* Applications requiring architectural review for wireless communication facilities shall be reviewed by the Architectural Review Board as required by § 99.05 subject to the procedures and requirements of §§ 153.066(F)(6) and 153.173 of this Code of Ordinances as applicable, except as modified in this section.
- (B) *General review considerations.* The Board shall determine whether the request will be appropriate to the preservation of the historic and architectural character of the District or of the historic property pursuant to the criteria specified in this section. Every reasonable effort shall be made to ensure that the use of the property will involve minimal alteration of existing buildings, structures, or sites and its environment.
- (C) *Architectural review criteria.* In addition to any standards for consideration of applications to the Architectural Review Board pursuant to §§ 153.066(F)(6) and 153.174 of this Code of Ordinances, the Board shall consider the following factors in determining whether the wireless communications facility application should be approved:
 - (1) Compliance with the requirements of §99.05(C);
 - (2) Height of the proposed tower and its proximity to residential structures and residential districts within their jurisdiction;
 - (3) Nature of uses on adjacent and nearby properties;
 - (4) Design of the wireless communications facility, with particular regard to design characteristics that have the effect of eliminating visual obtrusiveness while demonstrating substantial consistency with the historical and architectural character of the area;
 - (5) Proposed ingress and egress;
 - (6) Ability to screen or eliminate from view all associated equipment and service structures from adjacent properties and public rights-of-way.
 - (7) Availability of suitable existing towers, other structures, or alternative technologies not requiring the use of towers or structures. New facilities shall be approved only when other preferable alternatives are not available. No new facilities shall be permitted unless the applicant demonstrates to the reasonable satisfaction of the Architectural Review Board that no existing tower, structure, or alternative technology is reasonably available to fill the communication requirements.
 - (a) An applicant shall submit information to the Architectural Review Board related to the availability of suitable existing towers, other structures, or alternative technology. Evidence submitted to demonstrate that no existing tower, structure or alternative

technology can accommodate the applicant's proposed antenna may consist of any of the following:

1. No existing towers or other suitable structures are located within the specific geographic limits which meet the applicant's engineering requirements.
2. Existing towers or structures either do not have sufficient height to meet the applicant's engineering requirements, or have insufficient structural strength to support the applicant's proposed antenna and related equipment.
3. The applicant's proposed antenna would cause frequency interference with the antenna on the existing towers or structures, or the antenna on the existing towers or structures would cause interference with the applicant's proposed antenna.
4. The fees, costs, or contractual provisions required by the owner in order to share or to adapt for sharing an existing tower or structure are unreasonable. Costs exceeding new tower development are presumed to be unreasonable.
5. The applicant demonstrates that there are other limiting factors that render existing towers and structures unsuitable.
6. The applicant demonstrates that an alternative technology that does not require the use of towers or structures, such as a distributed antenna system or cable microcell network using multiple low-powered transmitters/receivers attached to a wireline system, is unsuitable. Costs of alternative technology that exceed new tower or antenna development shall not be presumed to render the technology unsuitable, but may be considered as a factor in the decision.
7. The applicant provides documentation that other tower owners were contacted in writing demonstrating the above considerations.

(D) The Architectural Review Board may impose conditions to the extent that it concludes that conditions are necessary to substantially camouflage the proposed structure and/or minimize any adverse effect of the tower on the historical nature of the site and/or adjoining properties, and/or to meet the review considerations of §§99.01 through 99.11 of this chapter.

(E) The findings and decision of the Architectural Review Board shall be based on and supported by substantial evidence contained in a Board Order which shall be forwarded to the applicant within ten days following the decision. Any applicant aggrieved by a decision of the Board may appeal the decision to the Board of Zoning Appeals in accordance with the provisions of § 153.180 of this Code of Ordinances.

SMALL CELL FACILITIES AND WIRELESS SUPPORT STRUCTURES WITHIN THE RIGHT-OF-WAY

§99.20 PURPOSE AND INTENT

(A) The purpose of §§99.20 through 99.29 of this chapter is to establish general procedures and standards, consistent with all applicable federal, state, and local laws, for the siting, construction, installation, collocation, modification, operation, and removal of small cell facilities and wireless support structures in the right-of-way.

(B) The intent of §§99.20 through 99.29 of this chapter is to:

- (1) Establish basic criteria for applications to locate small cell facilities and wireless support structures in the right-of-way and authorize the City Manager or his or her designee to develop, publish, and from time to time amend applications and other associated materials to provide clear guidance to applicants;
- (2) Ensure that small cell facilities and wireless support structures are carefully designed, constructed, modified, maintained, and removed when no longer in use in conformance with all applicable health and safety regulations;
- (3) Preserve the character of the City of Dublin by minimizing the potentially adverse visual impact of small cell facilities and wireless support structures through careful design, siting, landscaping and camouflaging techniques to blend these facilities into their environment to the maximum extent practicable;
- (4) Enhance the ability of wireless service providers to deploy small cell facilities and wireless support structures in the city quickly, effectively, and efficiently so that residents, businesses, and visitors benefit from ubiquitous and robust wireless service availability;
- (5) Establish an application process and structure for payment of fees and charges to be uniformly applied to all applicants, operators and owners of small cell facilities and wireless support structures for such facilities;
- (6) Comply with, and not conflict with or preempt, all applicable state and federal laws, including without limitation Section 101(a) and Section 704 of the Telecommunications Act, Pub. L. 104-104, 101 Stats. 56, 70 (Feb. 8, 1996) (codified as 47 U.S.C. §§ 253(a), 332(c)(7)), as may be amended or superseded, and Section 6409(a) of the Middle Class Tax Relief and Job Creation Act, Pub. L. 112-96, 126 Stat. 156 (Feb. 22, 2012) (codified as 47 U.S.C. § 1455(a)), as may be amended or superseded, and all FCC rules and regulations to interpret and implement applicable federal statutes.

§99.21 APPLICABILITY

- (A) Subject to the Ohio Revised Code and approval of an application under §§99.20 through 99.29 of this chapter, an operator may collocate a small cell facility and construct, maintain, modify, operate, or replace wireless support structures in, along, across, upon, and under the city right-of-way.
- (1) An operator shall comply with generally applicable standards that are consistent with Chapter 98 and §§99.20 through 99.29 of this chapter and any rules, regulations, and design guidelines adopted by the city for the collocation of a small cell facility and construction, maintenance, modification, operation, or replacement of wireless support structures in, along, across, upon, and under the city right-of-way, unless otherwise prohibited by state or federal law.
 - (2) All wireless support structures and small cell facilities shall be constructed and maintained so as not to impede or impair public safety or the legal use of the right-of-way by the city, the traveling public, or other public utilities.

Exclusions.

- (3) Amateur radio facilities. This chapter shall not govern the installation of any amateur radio facility that is owned or operated by a federally licensed amateur radio station operator or is used exclusively for receive-only antennas.
- (4) Certain over-the-air receiving devices (OTARD). This chapter shall not govern the installation of any OTARD antennas covered under FCC regulations codified in 47 C.F.R. §§1.4000 et seq., as may be amended or superseded. OTARD antennas include, without limitation, direct-to-home satellite dish antennas less than one meter in diameter, television antennas and wireless cable antennas.
- (5) Handsets and user equipment. This chapter shall not govern the use of personal wireless devices (e.g., cell phones) or other consumer-grade mobile user equipment used in the right-of-way.
- (B) The permitting procedures and authorizations set forth herein in §§99.20 through 99.29 shall apply only to small cell facilities and wireless support structures in the right-of-way, and do not authorize the construction and operation of a wireline backhaul facility, which continues to be governed by Chapter 98: Right-of-Way Management of the Code.
- (C) Relationship to other chapters. This chapter shall supersede all conflicting requirements of other titles and chapters of this Code regarding the locating and permitting of small cell facilities and wireless support structures in the right-of-way.
- (D) Nothing in this chapter precludes the city from applying its generally applicable health, safety, and welfare regulations when granting consent for a small cell facility or wireless support structure in the city right-of-way.

§99.22 DEFINITIONS

(A) General use of terms.

- (1) The terms, phrases, words, and their derivations used in §§99.20 through 99.29 shall have the meanings given in this section.
- (2) When consistent with the context, words used in the present tense also include the future tense; words in the plural number include the singular number; and words in the singular number include the plural number.
- (3) All terms used in the definition of any other term shall have their meaning as otherwise defined in this section.
- (4) The words "shall" and "will" are mandatory and "may" is permissive.
- (5) Words not defined shall be given their common and ordinary meaning.

(B) Defined terms.

ABANDONED. Any small cell facilities or wireless support structures that are unused for a period of three hundred sixty-five days without the operator otherwise notifying the city and receiving the city's approval.

AFFILIATE. When used in relation to any person, means another person who owns or controls, is owned or controlled by, or is under common ownership or control with, such person.

AGENT. A person that provides the city written authorization to work on behalf of a public utility.

ANTENNA. Communications equipment that transmits or receives radio frequency signals in the provision of wireless service.

APPLICANT. Any person that submits an application to the city to site, install, construct, collocate, modify, and/or operate a small cell facility or wireless support structure in the right-of-way according to the requirements of §§99.20 through 99.29 of this chapter.

CABLE OPERATOR. Any person or group of persons:

- (1) who provides cable service over a cable system and directly or through one or more affiliates owns a significant interest in such cable system, or
- (2) who otherwise controls or is responsible for, through any arrangement, the management and operation of such a cable system;

CABLE SERVICE.

- (1) The one-way transmission to subscribers of (i) video programming, or (ii) other programming service; and
- (2) Subscriber interaction, if any, which is required for the selection of such video programming or other programming service.

CABLE FRANCHISE. An initial authorization, or renewal thereof (including a renewal of an authorization which has been granted subject to 47 U.S.C. 522 Section 546), issued by a franchising authority, whether such authorization is designated as a franchise, permit, license, resolution, contract, certificate, agreement, or otherwise, which authorizes the construction or operation of a cable system.

CLEAR ZONE. The unobstructed, traversable area provided beyond the edge of the through traveled way for the recovery of errant vehicles. The clear zone includes shoulders, bike lanes, and auxiliary lanes, except those auxiliary lanes that function like through lanes. As defined in the ODOT Location and Design Manual, Volume 1, Section 600—Roadside Design.

COLLOCATION or COLLOCATE. To install, mount, maintain, modify, operate, or replace wireless small cell facilities on a wireless support structure.

DECORATIVE POLE. A pole, arch, or structure other than a street light pole placed in the public way specifically designed and placed for aesthetic purposes and on which no appurtenances or attachments have been placed except for any of the following:

- (1) Electric lighting;
- (2) Specially designed informational or directional signage;
- (3) Temporary holiday or special event attachments.

DESIGN GUIDELINES. Means those detailed design guidelines, specifications and examples promulgated by the City Manager for the design and installation of small cell facilities and wireless

support structures, which are effective insofar as they do not conflict with federal and state law, rule and regulations.

ELIGIBLE FACILITIES REQUEST. Means the same as defined by the FCC in 47 U.S.C. 1455 (a)(2), as may be amended, which defines that term as any request for modification of an existing support structure that does not substantially change the physical dimensions of such support structure, involving:

- (1) Collocation of new small cell facilities;
- (2) Removal of small cell facilities; or
- (3) Replacement of small cell facilities.

FRANCHISE AUTHORITY. See **CABLE FRANCHISE.**

FCC. The U.S. Federal Communications Commission and any legally appointed, designated, or elected agent or successor.

HISTORIC DISTRICT. A building, property, or site, or group of buildings, properties, or sites that are either of the following:

- (1) Listed in the national register of historic places or formally determined eligible for listing by the keeper of the national register, the individual who has been delegated the authority by the federal agency to list properties and determine their eligibility for the national register, in accordance with section VI.D.1.a.i-v of the nationwide programmatic agreement codified at 47 C.F.R. part 1, Appendix C;
- (2) A registered historic district as defined in section 149.311 of the Revised Code.

Generally, the portion of the Architectural Review District referred to as Historic Dublin, and as defined by §153.170.

MICRO WIRELESS FACILITY. A small cell facility that is not more than twenty-four inches in length, fifteen inches in width, and twelve inches in height and that does not have an exterior antenna more than eleven inches in length suspended on cable strung between wireless support structures.

OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES or OMUTCD. The uniform system of traffic control devices promulgated by the Ohio Department of Transportation.

OCCUPY OR USE. With respect to the right-of-way, to place a tangible thing in the right-of-way for any purpose, including, but not limited to, constructing, repairing, positioning, maintaining, or operating lines, poles, pipes, conduits, ducts, equipment, or other structures, appurtenances, or facilities necessary for the delivery of public utility services or any services provided by a cable operator.

OPERATOR. A wireless service provider, cable operator, or a video service provider that operates a small cell facility and provides wireless service. For the purpose of §§99.20 through 99.29, “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(20), and services that are fixed in nature or use unlicensed spectrum.

PERSON. Any natural person, corporation, or partnership and also includes any governmental entity.

PUBLIC UTILITY or UTILITY. A facilities-based provider of wireless service to one or more end users in this state, or any company described in section 4905.03 of the Ohio Revised Code and as further defined in section 4905.02 of the Ohio Revised Code, including but not limited to the following types of

companies; telephone, electric light, gas, natural gas, pipe-lines, water-works, and sewage disposal systems.

RIGHT-OF-WAY. The surface of and the space above and below the paved or unpaved portions of any public street, public road, public highway, public freeway, public lane, public path, public bikepath, public way, public alley, public court, public sidewalk, public boulevard, public parkway, public drive and any other land dedicated or otherwise designated for the same now or hereafter held by the city “Right-of-way” shall not include private easements or public property, except to the extent the use or occupation of public property is specifically granted in a right-of-way permit or by administrative regulation.

RIGHT OF WAY PERMIT, GENERAL. A permit issued by the City, subject to Chapter 98, to persons who desire and are granted authority to utilize rights-of-way generally.

RIGHT OF WAY PERMIT, SMALL CELL. Means a permit issued by the City for the collocation, construction, maintenance, operation, or replacement of small cell facility(ies) and/or wireless support structures in, along, across, upon and under the right-of-way.

SMALL CELL FACILITY. A wireless facility that meets both of the following requirements:

(1) 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.

(2) All other wireless equipment associated with the facility is cumulatively not more than twenty-eight 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.

SUBSTANTIAL CHANGE: Has the same meaning as described in 47 C.F.R. §1.40001(b)(7).

TOLLING or TOLL PERIOD. The pausing or delaying of the running of a required time period.

UTILITY POLE. 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.

VIDEO SERVICE PROVIDER. A person granted a video service authorization under sections 1332.21 to 1332.34 of the Ohio Revised Code.

WIRELESS FACILITY.

(1) Equipment at a fixed location that enables wireless communications between user equipment and a communications network, including all of the following:

(a) Equipment associated with wireless communications;

(b) Radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supplies, and comparable equipment, regardless of technological configuration.

(2) The term includes small cell facilities.

- (3) The term does not include any of the following:
- (a) The structure or improvements on, under, or within which the equipment is collocated;
 - (b) Coaxial or fiber-optic cable that is between wireless support structures or utility poles or that is otherwise not immediately adjacent to or directly associated with a particular antenna.

WIRELESS SERVICE. Any services using licensed or unlicensed wireless spectrum, whether at a fixed location or mobile, provided to the public using wireless facilities.

WIRELESS SERVICE PROVIDER. A person who provides wireless service as defined herein.

WIRELESS SUPPORT STRUCTURE. A pole, street light pole, traffic signal pole, a fifteen-foot or taller sign pole, or utility pole capable of supporting small cell facilities, excluding utility poles or other facilities used to supply traction power to public transit systems, including railways, trams, streetcars, and trolleybuses.

WIRELINE BACKHAUL FACILITY. A facility used for the transport of communications service or any other electronic communications by coaxial, fiber-optic cable, or any other wire.

§99.23 APPLICATION REQUIRED

(A) General Requirements. The following requirements shall apply to all small cell facilities and wireless support structures proposed within the right-of-way.

- (1) No person shall occupy or use the right-of-way except in accordance with law.
- (2) In occupying or using the right-of-way, no person shall unreasonably compromise the public health, safety, and welfare.
- (3) No person shall occupy or use the right-of-way without first obtaining, under this chapter, Chapter 98, or section 1332.24 or 4939.031 of the Ohio Revised Code, any requisite consent of the city. Before placing small cell facilities or wireless support structures in the right-of-way, an operator must apply for and receive a general right-of-way permit under sections 98.03 and 98.04(C). If the operator's sole activities in the right-of-way will consist solely of collocating small cell facilities, constructing, modifying, or replacing new wireless support structures and associated small cell facilities, removing such facilities, or eligible facilities requests, then the operator shall not be required to pay the annual fee for general right-of-way permittees provided in section 98.07. This provision shall not be construed to waive application fees or any other construction or work permit necessary for work in the City.

(B) Pre-Application Conference.

- (1) Purpose. Applicants are strongly encouraged to contact the city and request a pre-application conference. This meeting will provide an opportunity for early coordination regarding proposed small cell facilities and wireless support structure locations and design, and the application submittal and review process, in order to avoid any potential delays in the processing of an application and deployment of small cell facilities and wireless support structures in the city.

- (2) *Appointment Required.* An appointment is required for all pre-application conferences. Applicants must contact the designated city staff member as noted on the application form, who will provide applicants an appointment with all applicable city representatives in a timely manner.
- (C) *Application Required.* In accordance with federal and state law and the city code, an operator may apply to the city to collocate a small cell facility on an existing wireless support structure and to construct, maintain, modify, operate, or replace wireless support structures in, along, across, upon, and under the city rights-of-way. Anyone seeking to collocate a small cell facility on an existing wireless support structure and/ or to construct, maintain, modify, operate, or replace wireless support structures in, along, across, upon, and under the city rights-of-way shall first duly file a written application with the city, in accordance with the requirements in this section and additional requirements set forth in the Design Guidelines as modified from time to time by the City Manager.
- (D) *Required Application Materials.* Unless otherwise required by state or federal law, all applicants shall submit to the city materials and information associated with each application as outlined in the Design Guidelines in order for the application to be considered complete.

§99.24 APPLICATION REVIEW TIMEFRAMES AND PROCESS

(A) *Permit Application Review Timeframes.*

- (1) *Collocation of Small Cell Facilities on Existing Wireless Support Structures.* The city shall grant or deny its consent for requests to collocate, or to replace or modify a small cell facility on, or associated with, an existing wireless support structure not later than ninety days after the date of filing by an entity of a completed application.
- (2) *New Wireless Support Structures and Associated Small Cell Facilities.* The city shall grant or deny its consent for requests to construct, modify, or replace a wireless support structure associated with a small cell facility within the right-of-way not later than one hundred twenty days after the date of filing by an entity of a completed application.
- (3) *Wireless Support Structure and/or Small Cell Facilities Removal.* The city shall grant or deny its consent for requests to remove wireless support structures associated with small cell facilities from the right-of-way typical to the review timeframes for the General Right-of-Way Permit required for this activity.
- (4) *Eligible Facilities Request.* The city shall approve Eligible Facilities Requests in accordance with Ohio Revised Code Chapter 4939, 47 C.F.R. §1.40001, and §§99.20 through 99.29 herein not later than sixty days after the date of filing by an entity of a submitted application.
- (B) *Failure to grant or deny within prescribed timeframes.* If the city fails to approve or deny a request for consent under this section or a request for a relevant work permit within the timeframes required under §99.24(A), provided the time period is not tolled under §99.24(D) or extended with the written consent of the applicant and the Director, the request shall be deemed granted upon the requesting entity providing notice to the city that the time period for acting on the request has lapsed.
- (C) *Application denials.*

- (1) The city shall not unreasonably withhold or deny consent for small cell facilities and wireless support structures within the right-of-way.
- (2) If a request for consent is denied, the city shall provide in writing its reasons for denying the request, supported by substantial, competent evidence, and such information as the applicant may reasonably request to obtain consent. The denial of consent shall not unreasonably discriminate against the entity requesting the consent.
- (3) Except in the case of a public utility subject to the jurisdiction and recognized on the rolls of the public utilities commission or of a cable operator possessing a valid franchise awarded pursuant to the "Cable Communications Policy Act of 1984," 98 Stat. 2779, 47 U.S.C.A. 541, the city, for good cause shown, may withhold, deny, or delay its consent to any person based upon the person's failure to possess the financial, technical, and managerial resources necessary to protect the public health, safety, and welfare.

(D) Tolling of required timeframes.

- (1) The time periods required in §99.24(A) may be tolled only:
 - (a) By mutual agreement between the entity requesting consent and the city;
 - (b) In cases where the city determines that the application is incomplete; or
 - (c) If the number of requests for consent for small cell facilities or wireless support structures received is likely to result in difficulty processing applications within the time limits set forth in §99.24(A) due to the lack of resources of the city, then the city may toll the time limits as follows:
 1. The time period may be tolled for up to twenty-one days for the first fifteen small cell facility or wireless support structure requests received by the city above the thresholds provided in the Table below within any consecutive thirty-day period:

<u>Population of city at time Small Cell Facility or Wireless Support Structure Applications are received:</u>	<u>Number of Applications:</u>
<u>30,000 persons or less</u>	<u>15 applications or more</u>
<u>30,001 to 40,000 persons</u>	<u>20 applications or more</u>
<u>40,001 to 50,000 persons</u>	<u>25 applications or more</u>
<u>50,001 to 60,000 persons</u>	<u>30 applications or more</u>
<u>60,001 to 100,000 persons</u>	<u>60 applications or more</u>

2. Further, for every additional fifteen requests that the city receives above the thresholds provided in the Table above the city may toll the time period for those requests for up to fifteen days in addition to the time period provided in division (1)(c)(1) of this section.
3. In no instance shall the city toll the time period for any small cell facility or wireless support structure request by more than ninety consecutive days. Upon request, the city shall provide an operator written notice of the time limit for a small cell facility or wireless support structure request.

- (2) To toll the time period for incompleteness, the city shall provide written notice to the person requesting consent not later than thirty days after receiving the request, clearly and specifically delineating all missing documents or information. The missing documents or information shall be reasonably related to determining whether the request meets the requirements of applicable federal and state law. Any notice of incompleteness requiring other information or documentation, including information of the type described in section 4939.0313 of the Ohio Revised Code or documentation intended to illustrate the need for the request or to justify the business decision for the request, in accordance with state and federal law, does not toll the time period for incompleteness.
- (3) The time period for granting or denying consent resumes when the entity makes a supplemental submission in response to the city's notice of incompleteness.
- (4) If a supplemental submission is inadequate, the city shall notify the entity not later than ten days after receiving the supplemental submission that the supplemental submission did not provide the information identified in the original notice that delineated missing documents or information. The time period may be tolled in the case of second or subsequent notices under the procedures identified in divisions (1) to (3) of this section. Second or subsequent notices of incompleteness may not specify missing documents or information that was not delineated in the original notice of incompleteness.
- (E) Consolidated application for multiple small cell facilities and/or wireless support structures.
- (1) Applicants seeking to construct, modify, collocate, or replace more than one small cell facility or more than one wireless support structure may file, at the applicant's discretion, a consolidated application for up to 30 small cell facility requests or up to 30 wireless support structure requests in a single application and receive a single permit for the construction, modification, collocation, or replacement of the small cell facilities or wireless support structures subject to the following:
- (a) This single application may be filed for multiple small cell facilities or multiple wireless support structures only if they are of substantially the same type.
- (b) The city may separately address small cell facility collocations or wireless support structures for which incomplete information has been received or which are denied.
- (2) In the case of a consolidated application, the fees provided for in section 4939.0316 of the Ohio Revised Code and §99.23 may be cumulative. However, the city, at its discretion may opt to reduce such fees in order to encourage consolidated application submittals.
- (3) In the case of a consolidated application, each small cell facility or wireless support structure proposed to be constructed, modified, collocated on, or replaced shall constitute a separate request for consent for purposes of tolling the response deadline as authorized under section 4939.036 of the Ohio Revised Code and §99.24(D)(1) herein. A request by a single operator for a new or replacement wireless support structure and associated small cell facility constitutes one request.
- (F) Timeframe for completion of permit.

- (1) Collocations of small cell facilities on existing wireless support structures and the construction of new wireless support structures and/or associated small cell facilities for which permits have been granted shall be completed by the operator or its agent within one hundred eighty days after issuance of the permit, unless:
- (a) The city and the operator agree to extend this period; or
 - (b) A delay is caused by make-ready work for a city-owned wireless support structure or decorative pole or by the lack of commercial power or backhaul availability at the site, provided that:
 - 1. The operator has made a timely request within sixty days after the issuance of the permit for commercial power or backhaul services; and
 - 2. The additional time to complete installation does not exceed three hundred sixty days after issuance of the permit.
- (2) If divisions (1)(a) and (b) of this section cannot be met, the permit shall be void unless the city grants an extension in writing to the operator.

(G) *Small Cell Facility and Wireless Support Structure activities not requiring consent.*

- (1) City consent shall not be required for either of the following activities conducted in the right-of-way:
- (a) Routine maintenance of wireless facilities;
 - (b) The replacement of wireless facilities with wireless facilities that are consistent with the city's current design requirements and guidelines and that are either:
 - 1. Substantially similar to the existing wireless facilities; or
 - 2. The same size or smaller than the existing wireless facilities.
- (2) The city may require a General Right-of-Way Permit for any activity described in division (1) of this section and for any activity for which consent is authorized herein and in accordance with state and federal law.

§99.25 DESIGN GUIDELINES

- (A) The City Manager shall promulgate detailed Design Guidelines with objective, technically feasible criteria applied in a non-discriminatory manner that reasonably match the aesthetics and character of the immediate area regarding all of the following, which the city shall consider in reviewing an application:
- (1) The location of any ground-mounted small cell facilities;
 - (2) The location of a small cell facility on a wireless support structure;

- (3) The appearance and concealment of small cell facilities, including those relating to materials used for arranging, screening, and landscaping;
- (4) The design and appearance of a wireless support structure.
- (B) The Design Guidelines shall provide examples of small cell facilities preferences including visual depictions.
- (C) The provisions in this section shall not limit or prohibit the City Manager's discretion to promulgate and make publicly available other information, materials or requirements in addition to, and separate from, Design Guidelines so long as the information, materials, or requirements do not conflict with state or federal law.
- (D) The City Manager shall have authority to update or supplement the Design Guidelines to address relevant changes in law, technology, or administrative processes. In the event of any conflict between the Design Guidelines and the standards articulated in §§99.20 through 99.29 of this chapter of the City of Dublin Code of Ordinances, the language of §§99.20 through 99.29 shall take precedence over the language of the Design Guidelines.

§99.26 STANDARD CONDITIONS OF PERMIT APPROVAL

- (A) Standard conditions of approval. Permission to site small cell facilities and wireless support structures in the right-of-way shall be conditioned on compliance with the standard conditions of approval provided in this §99.26. The City Manager or his or her designee may add or modify conditions of approval as necessary or appropriate to protect and promote the public health, safety, and welfare.
- (B) Small Cell Facility Permit duration. The city's approval term of an attachment to a wireless support structure shall be for a period of not less than ten years, with presumption of renewal for successive five-year terms, subject to terms providing for early termination or nonrenewal for cause or by mutual agreement and unless otherwise agreed to by both the operator and the city, except for generally applied permitting to safeguard the public health, safety, and welfare. An operator may remove its small cell facilities at any time subject to applicable permit requirements and may stop paying annual charges or fees under §99.26(N).
- (C) Compliance with all applicable laws.
- (1) Permittee shall at all times maintain compliance with all applicable federal, state and local laws, regulations, ordinances, or other rules.
- (2) If state or federal standards and regulations are amended, the owners of the small cell facilities and/or wireless support structures governed by this chapter shall bring any facilities and/or structures into compliance with the revised standards and regulations within six months of the effective date of the standards and regulations, unless a different compliance schedule is mandated by the regulating agency. Failure to bring small cell facilities and/or wireless support structures into compliance with any revised standards and regulations shall constitute grounds for removal at the owner's expense.

- (D) Inspections; emergencies. The city or its designee may inspect small cell facilities and wireless support structures in the right-of-way upon reasonable notice to the permittee. The permittee shall cooperate with all inspections. The city reserves the right to support, repair, disable, or remove any elements of the facility in emergencies or when the facility threatens imminent harm to persons or property.
- (E) Relocation or adjustment as requested by city. If requested by the city, in order to accomplish construction and maintenance activities directly related to improvements for the health, safety, and welfare of the public, an operator shall relocate or adjust its facilities within the right-of-way at no cost to the city, as long as such request similarly binds all users in or on such public way. Such relocation or adjustment shall be completed in accordance with law.
- (F) Contact information for responsible parties. Permittee shall at all times maintain accurate contact information for all parties responsible for the facility, which shall include a phone number, street mailing address, and email address for at least one natural person. All such contact information for responsible parties shall be provided to the Department of Public Works.
- (G) Indemnification. Any operator who owns or operates small cell facilities or wireless support structures in the right-of-way shall indemnify, protect, defend, and hold the city and its elected officials, officers, employees, agents, and volunteers harmless against any and all claims, lawsuits, judgments, costs, liens, losses, expenses, fees to include reasonable attorney fees and costs of defense, proceedings, actions, demands, causes of action, liability and suits of any kind and nature, including personal or bodily injury or death, property damage or other harm for which recovery of damages is sought, to the extent that it is caused by the negligence of the operator who owns or operates small cell facilities and wireless service in the right-of-way, any agent, officer, director, representative, employee, affiliate, or subcontractor of the operator, or their respective officers, agents, employees, directors, or representatives while installing, repairing, or maintaining facilities in the right-of-way.
- (H) Interference with public safety radio services. In occupying or using the right-of-way, no person shall unreasonably compromise the public health, safety, and welfare. Permittees shall comply with the applicable provisions of 47 CFR §§ 22.970-973 and 47 CFR §§ 90.672-675 respectively, which define unacceptable interference, state the obligations of licensees to abate unacceptable interference, provide interference resolution procedures, and set forth a discretionary information exchange between public safety licensees and other licensees.
- (I) Adverse physical impacts on adjacent properties. Permittee shall undertake all reasonable efforts to avoid undue adverse physical impacts to adjacent properties and/or uses that may arise from the construction, operation, maintenance, modification, or removal of the small cell facility and/or wireless support structure.
- (J) Good condition required. Small cell facilities and wireless support structures shall at all times be kept and maintained in good condition, order, and repair by qualified maintenance and construction personnel, so that the same shall not menace or endanger the health, safety or welfare of any person or property. Examples of poor condition include, but are not limited to: peeling, flaking, or blistered paint; rust or other visible deterioration of materials; or failure to maintain required landscape screening. All small cell facilities and wireless support structures shall be subject to generally applicable property maintenance requirements and to visual inspection by code enforcement officers. Notices of violation shall be served as provided in the Property Maintenance Code. The notice shall provide that the operator has 20 days from date of service of the notice to appeal the notice or remedy

it. If that time expires without appeal or remedy to the satisfaction of the City, the City may remedy the violation and charge the costs of said remedy to the operator.

- (K) *Graffiti abatement.* Permittee shall remove any graffiti on the small cell facility at permittee's sole expense.
- (L) *RF exposure compliance.* All facilities must comply with all standards and regulations of the FCC and any other state or federal government agency with the authority to regulate RF exposure standards.
- (M) *Relocation for public improvement projects.* Permittee shall remove and relocate the permitted small cell facility and/or wireless support structure at permittee's sole expense to accommodate construction of a public improvement project by the City.
- (N) *Removal of small cell facilities if use discontinued or abandoned.*
- (1) In the event that the use of a small cell facility and/or wireless support structure is discontinued, the owner or operator of the small cell facility and/ or wireless support structure shall submit a request for consent to remove the wireless support structure or small cell facility, as provided in section 99.24(A)(3), which shall serve as the notice required by §98.12 to the city of its intent to discontinue use and the date when the use shall be discontinued. If the small cell facility and/or wireless support structure is not removed within 365 days of discontinued use, the small cell facility and/ or wireless support structure shall be considered abandoned and the city may remove it at the owner's expense.
 - (2) Small cell facilities and wireless support structures determined by the city to be abandoned without notice from the owner may be removed by the city at the owner's expense to ensure the public health, safety, and welfare.
 - (3) The City reserves the right to inspect and to request information from the operator, which the operator shall provide following such request, as to the continued use of the operator's small cell facility(ies) or wireless support structure(s) within the right-of-way.

§99.27 SAFETY REQUIREMENTS

- (A) *Prevention of failures and accidents.* Any person who owns a small cell facility and/or wireless support structure sited in the right-of-way shall at all times employ ordinary and reasonable care and install and maintain in use industry standard technology for preventing failures and accidents which are likely to cause damage, injury, or nuisance to the public.
- (B) *Compliance with fire safety and FCC regulations.* Small cell facilities, wires, cables, fixtures, and other equipment shall be installed and maintained in substantial compliance with the requirements of the National Electric Code, all FCC, state, and local regulations, and in such manner that will not interfere with the use of other property.
- (C) *Surety bond or equivalent financial tool for cost of removal.* All owners must procure and provide to the city a bond, or must provide proof of an equivalent financial mechanism, to ensure compliance with all provisions of §§99.20 through 99.29. The bond or equivalent financial method must specifically cover the cost of removal of unused or abandoned small cell facilities and/ or wireless

support structures or damage to city property caused by an operator or its agent of each small cell facility and/ or wireless support structure in case the city has to remove or pay for its removal. Two acceptable alternatives to a bond include a funds set-aside and a letter of credit.

§99.28 RECOVERY OF COSTS

- (A) *Application processing fee.* For processing an application for consent, the city may charge a fee for each small cell facility and wireless support structure requested as prescribed under section 4939.0316 of the Ohio Revised Code and as listed on the associated application forms which shall be made available by the Department of Public Works. The city may adjust this fee ten per cent every five years, rounded to the nearest five dollars.
- (B) *Annual collocation fee.* For reimbursement for operator's attachment of small cell facilities to wireless support structures owned or operated by the city and located in the right-of-way, the city may charge an annual fee as prescribed in 4939.022 of the Ohio Revised Code and as listed on associated application forms which shall be made available by the Department of Public Works. The city may adjust this fee ten per cent every five years, rounded to the nearest five dollars.
- (C) *Tax liabilities and assessments not applicable.* Placement of small cell facilities in the right-of-way or attachment of small cell facilities to a wireless support structure and any fees associated therewith shall not subject the city to any state or local tax liabilities or assessments.

§99.29 SEVERABILITY

The provisions of §§99.20 through 99.29 of this chapter are severable. If any provision or subsection, or the application of any provision or subsection to any person or circumstances is held invalid, the remaining provisions, subsection, and applications of such ordinance to other persons or circumstances shall not be made invalid as well. It is declared to be the intent of this section that the remaining provisions would have been adopted had such invalid provisions not been included in this chapter when originally adopted by Council.

§99.99 PENALTY

- (A) In addition to any other penalties set forth in this chapter, any person or permittee violating any section in this chapter shall be guilty of a minor misdemeanor. Each day the violation continues shall be deemed a separate offense.
- (B) Nothing herein shall prevent the city from taking any other lawful action, including civil actions at law or equity, including temporary restraining orders, preliminary injunctions and permanent injunctions, as is necessary to prevent or remedy any violations.



Design Guidelines for Small Cell Facilities and Wireless Support Structures within the Right-of-Way

June 15, 2018

Department of Public Works--Engineering
Department of Development--Planning



EVERYTHING GROWS HERE.

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1. BACKGROUND AND PURPOSE



1. BACKGROUND AND PURPOSE

1.1 Background

[Ohio House Bill 478 \(“HB 478”\)](#) modifies a previously adopted law regarding wireless service and the placement of small cell facilities in city rights-of-way. It was passed on April 11, 2018, signed by the governor on May 2, 2018 and is effective as of August 1, 2018. The law is intended to promote the rapid deployment of small cell facility infrastructure within the right-of-way by ensuring that municipalities grant or deny consent to install, operate, modify, or replace wireless facilities in a timely manner. The law recognizes the authority of a municipality to manage access to, and occupancy of, rights-of-ways to the extent necessary with regard to matters of local concern. This includes the protection of the integrity of [residential and](#) historic areas and ensures that the use of the rights-of-way in such districts is technologically and aesthetically appropriate.

Chapter 99 of the City of Dublin Codified Ordinances has been modified to account for the provisions of HB 478 for the regulation of small cell facilities and wireless support structures within city rights-of-way.

1.2 Purpose

In addition to the requirements of Chapter 99, these Design Guidelines for Small Cell Facilities and Wireless Support Structures ([“Design Guidelines”](#)) provide guidance to wireless communications carriers on the aesthetic requirements and specifications that all small cell facilities and wireless support structures must meet prior to installation in the City of Dublin right-of-way. Although small cell facilities installed outside the right-of-way are not bound by these guidelines, they [Design Guidelines](#) may inform [these such](#) installations.

The objective of the Design Guidelines is to strike a balance between preserving the character of the City of Dublin through careful design, siting, landscaping and camouflaging techniques to blend these facilities into their environment, while enhancing the ability of wireless communications carriers to deploy small cell facilities and wireless support structures in the city quickly, effectively, and efficiently so that residents, businesses, and visitors benefit from ubiquitous and robust wireless service availability.

The Design Guidelines are intended to allow sufficient flexibility to respond to and integrate future advances in small cell facilities technology as well as innovations that improve the ability for these facilities to integrate into the surrounding environment. Due to the rapid advances in wireless technology, the Design Guidelines will be evaluated periodically to ensure that the provisions respond and adapt accordingly to these evolving technologies.

These guidelines apply to requests to locate small cell facilities [and wireless support structures](#) in the right-of-way and are administered by the City of Dublin Right-of-Way Permit Group within the Department of Public Works/Engineering with support from Planning within the Department of Development. The group can be contacted at 614-410-4740.



2. TYPES OF APPLICATION REQUESTS



2. TYPES OF APPLICATION REQUESTS

Requests to locate small cell facilities and wireless support structures within the right-of-way generally involve either the collocation of small cell facilities in association with existing wireless support structures, or the installation of a new wireless support structure and associated small cell facilities. In addition to these main categories, applications are required for the removal of small cell facilities and wireless support structures as well as eligible facilities requests for modification of an existing tower or base station within the right-of-way.

2.1 Collocation on Existing Wireless Support Structure and Associated Small Cell Facilities (Type 1 Request)

A request for collocation on an existing wireless support structure (Type 1 Request) involves installing or ‘collocating’ small cell facilities on an existing structure, such as a light pole, or utility pole. Type 1 Requests are administered through the Small Cell Right-of-Way Permit review process following approval of a General Right-of-Way Permit. The General Right-of-Way Permit must be renewed every 5 years.

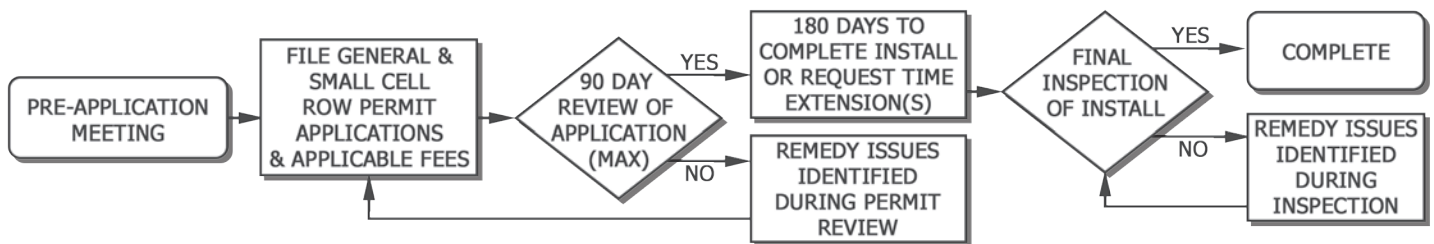


Figure 2A--Type 1 Application Request Process

2.2 New Wireless Support Structure and Associated Small Cell Facilities (Type 2 Request)

A request for a new wireless support structure and small cell facility (Type 2 Request) involves an operator installing a wireless support structure and associated small cell facility or facilities. Type 2 Requests are administered through the Small Cell Right-of-Way Permit review process following approval of a General Right-of-Way Permit. The General Right-of-Way Permit must be renewed every 5 years..

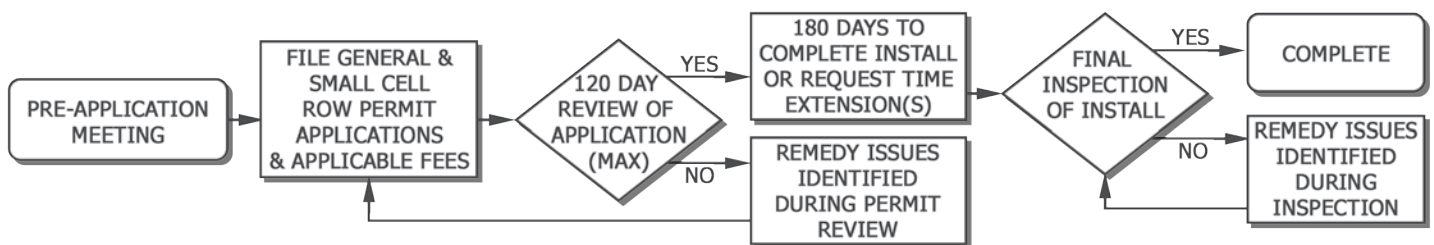


Figure 2B--Type 2 Application Request Process

2.3 Removal of Wireless Support Structure and/or Associated Small Cell Facilities (Type 3 Request)

Requests to permanently remove privately owned wireless support structures from the right-of-way are administered through the Small Cell Right of Way Permit review process.



2. TYPES OF APPLICATION REQUESTS

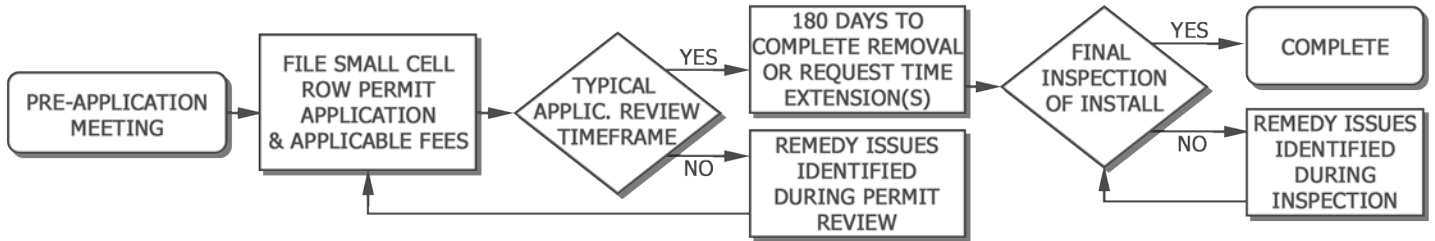


Figure 2C--Type 3 Application Request Process

2.4 Eligible Facilities Request (Type 4 Request)

An eligible facilities request (Type 4 Request) is a request to modify an existing tower or base station within the right-of-way constructed for the sole or primary purpose of supporting antennas and other associated facilities for wireless communications services, such that the modification does not substantially change the physical dimensions of such tower or base station when collocating new equipment, removing transmission equipment, or replacing transmission equipment.

Under federal law, a substantial modification to a tower or base station within the right-of-way is defined, in part, as follows:

- (1) It increases the height of the structure by more than 10% or more than ten feet, whichever is greater;
 - (a) Changes in height should be measured from the original support structure in cases where deployments are or will be separated horizontally, such as on buildings' rooftops; in other circumstances, changes in height should be measured from the dimensions of the wireless support structure, inclusive of originally approved appurtenances and any modifications that were approved prior to the passage of the Spectrum Act.
- (2) It involves adding an appurtenance to the body of the wireless support structure that would protrude from the edge of the structure by more than six feet;
- (3) It involves installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets; or, for wireless support structures in the public rights-of-way, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than 10% larger in height or overall volume than any other ground cabinets associated with the structure; and/or
- (4) It entails any excavation or deployment outside the current site.

Type 4 Requests are administered through the Small Cell Right-of-Way Permit review process. If during the staff review, it is determined that substantial modifications are proposed, the applicant will be informed that a Type 1 Application Request will be required.

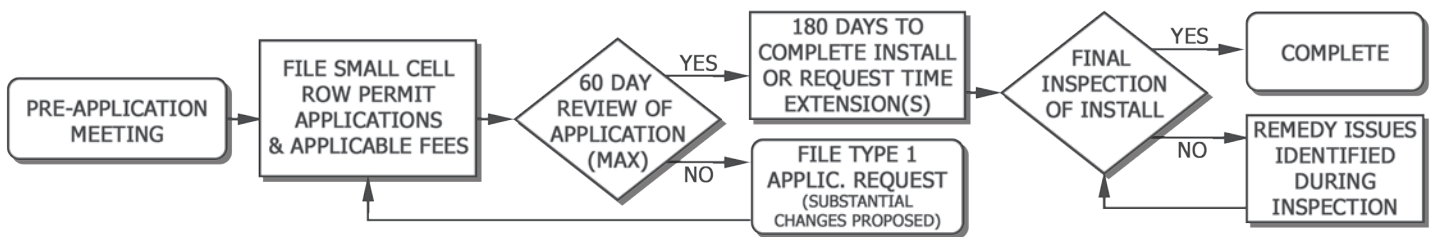


Figure 2D--Eligible Facilities Request Process



3. REQUIRED APPLICATION MATERIALS



3. REQUIRED APPLICATION MATERIALS

Unless otherwise required by state or federal law, or unless mutually agreed upon as part of the Pre-Application Meeting, all applicants shall submit to the city the following materials and information associated with each application type in order for the application to be considered complete:

3.1 Required Application Materials for Installation of Small Cell Facilities and/or Wireless Support Structures.

3.1.1 Completed Permit Application Form(s) and Fee(s) as applicable

[The permit application forms are available through the Department of Public Works, with all associated application fees noted on the application forms.](#)

3.1.2 Site Plan

At a scale not smaller than one inch equals twenty feet with dimensions, clearly indicating the following:

- Proposed location within the right-of-way including nearest cross street intersection(s);
- For parcels within 150 feet of the proposed small cell facility location, parcel identification number and property ownership as currently listed by Franklin, Delaware and Union County auditors, as applicable;
- All existing conditions within 150 feet of the proposed location, including but not limited to, buildings, utilities within the right-of-way and associated above grade structures, location of electric service and fiber optic cable, all other underground and overhead utilities, wireless support structures (both with and without small cell facilities attached), ground-mounted small cell facilities, sidewalks/shared-use paths, back of adjacent curb/edge of pavement, driveways, street trees, and protected trees as defined in §153.141 of the City of Dublin Code of Ordinances;
- Dimensions shall be provided from the proposed wireless support structure and/or small cell facility to existing wireless support structures and equipment, utility structures, back of curb/edges of pavement including driveways, sidewalks and shared-use paths;
- Dimensions shall be provided between proposed wireless support structures and any associated ground-mounted equipment.

3.1.3 Inventory of Existing Small Cell Facilities and Wireless Support Structures

Please provide an inventory of any existing and approved wireless support structures with collocated small cell facilities that are either within the jurisdiction or within one-half mile of the border of the city, with latitudinal and longitudinal location coordinates.

The city may share this information with other applicants seeking to locate small cell facilities and/or wireless support structures within the City of Dublin. However, the city is not, by sharing this information, in any way representing or warranting that the sites are available or suitable. The inventory of each small cell facility and wireless support structure shall include:

- A map showing each location, by address and/or parcel identification number, including straight-line distances between each facility;
- Facility height and design; and
- Facility owner(s)/operator(s)

3.1.4 Wireless Support Structure Details

Plans, elevations, profiles and sections at a scale not smaller than one inch equals five feet, depicting existing



wireless support structures for collocation requests and proposed new wireless support structures, as applicable and clearly indicating the following:

- Height from established grade at the base of the wireless support structure to the highest point of the wireless support structure and the height to the highest point of proposed antenna or antenna enclosures, as applicable (overall height).
- Height from established grade at the base of the wireless support structure to the lowest point of all proposed small cell equipment to be installed on the wireless support structure.
- Outside diameter of upper poles, and for tapered poles the outside diameter as measured at the widest and narrowest points of the pole.

3.1.5 Small Cell Facilities Details

Plans, elevations, profiles and sections at a scale not smaller than one inch equals five feet, depicting existing small cell facilities and/or proposed small cell facilities clearly indicating the following, as applicable:

- Height, width, depth and volume in cubic feet of all proposed antenna and exposed elements and/or proposed antenna shrouds.
- Height, width, depth and volume of all other wireless equipment associated with the facility, with all 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 clearly labeled.
- The distance from the outer edge of small cell facility cabinet parallel to the outer edge of the wireless support structure for small cell facilities to be installed on a wireless support structure.
- Method of installation/connection to pole or ground, as applicable.
- Color specifications for all small cell facilities and wireless support structures and associated exposed equipment, cabinets and concealment elements.
- Electrical plans and wiring diagrams
- Footing and foundation drawings and structural analysis sealed and signed by a professional engineer in the state of Ohio.

3.1.6 Manufacturer's Specification Sheets.

- Provide the most recent specification sheets from manufacturers for all small cell facility equipment and wireless support structures proposed, including but not limited to poles, equipment cabinets, shrouds, or concealment devices, antennas, meters, radios, switches, telecommunications demarcation boxes, and grounding equipment.

3.1.7 Landscape Plans.

- Where ground-mounted small cell equipment cabinets are proposed, provide landscape plans at a scale not smaller than one inch equals ten feet, including planting details and a plant schedule indicating proposed plant species, quantities, spacing, and height/size at installation.

3.2 Required Application Materials for Wireless Support Structure and/or Small Cell Facilities Removal.

For applications involving the removal of small cell facilities and/or wireless support structures, the following materials and information shall be provided:



3. REQUIRED APPLICATION MATERIALS

3.2.1 Small Cell Right-of-Way Permit application and fee as specified

[The permit application forms are available through the Department of Public Works, with all associated application fees noted on the application forms.](#)

3.2.2 Site Plan

At a scale not smaller than one inch equals twenty feet with dimensions, clearly indicating the following:

- Existing small cell facilities and/or wireless support structure locations within the right-of-way including nearest cross street intersection(s);
- For adjacent parcel(s) perpendicular to the proposed small cell facility/wireless support structure location, property ownership, including current ownership;
- All existing conditions within 50 feet of the existing small cell facilities locations to be removed, including but not limited to, buildings, utilities within the right-of-way and associated above grade structures, location of electric service and fiber optic cable, all other underground and overhead utilities, small cell structures and facilities, sidewalks/shared-use paths, back of adjacent curb/edge of pavement, driveways, street trees and plant material.

3.2.3 Remediation Plans

Site and/or structure remediation details at a scale not smaller than one inch equals five feet in accordance with the requirements of Section 4.4, and clearly indicating the following:

- Proposed remediation plan for modifications made to city-owned wireless support structures and other areas of the right-of-way associated with collocation of small cell wireless facilities and ground-mounted equipment after the removal of these facilities.
- Proposed restoration of electric and fiber optic connections after removal of small cell facilities, as applicable.



4. GENERAL DESIGN GUIDELINES



4. GENERAL DESIGN GUIDELINES

4.1 Collocations on Existing Wireless Support Structures (Type 1 Requests)

4.1.1 Collocations Encouraged

- Except as otherwise provided in the Context Specific Guidelines [herein](#), the collocation of wireless facilities on existing support structures (that are engineered to accommodate such facilities) is strongly encouraged.

4.1.2 Maximum Permitted Height

- Antennas, small cell facilities and any associated concealment materials shall not increase the overall height of the existing wireless support structure by more than five (5) feet.

4.1.3 Use of Existing Privately Owned Utility Poles

There are a number of existing private utility poles located within the right-of-way throughout the city. These support structures are not owned by the City of Dublin, but may be eligible for collocations of small cell facilities pending permission of the legal owner of the structures.

- Documentation Required
 - Documentation of owner's permission to collocate small cell facilities must be included with the Type 1 Request in the form of a letter or other correspondence/documentation.
- Antenna Mounting Requirements
 - Where possible, antenna shall be installed consistent with the requirements of 4.3.1. Where existing conditions preclude this mounting location, antennas shall be fully enclosed within a shroud attached as near as possible to the top of the wooden pole and on the side of the pole opposite the direction of vehicular traffic along the same side of the right-of-way.
- Wiring, Cables and Conduit Requirements
 - All wiring and cables shall be firmly secured to the support structure and enclosed within a separate rigid external conduit attached directly to the pole or offset not more than four (4) inches by mounting brackets. Conduit color shall be gray to match the required small cell facilities and enclosure color.
 - Spools and/or coils of excess fiber optic or cables or any other wires shall not be stored on the pole except completely within the approved enclosures or cabinets.
- Color
 - All small cell facilities, cabinets, shrouds, conduit, and mounting hardware proposed in conjunction with installation on an existing wooden pole shall be gray Federal Standard #26492 powder coated finish or as [otherwise](#) approved by the City Engineer.

4.1.4 Structural Capacity of Existing Support Structures

- The city will not authorize any attachments to city-owned infrastructure that negatively impacts the structural integrity of the associated infrastructure.
- The city may condition approval of the collocation on replacement or modification of the wireless support structure at the operator's cost if the city determines that replacement or modification is necessary for compliance with city standards.



- A replacement or modification of the wireless support structure shall conform to all applicable design guidelines and city specifications for the type of structure being replaced.
- The city may retain ownership of a replacement wireless support structure.

4.1.5 Right to Reserve Space

- The city may reserve space for future public safety or transportation uses in the right-of-way or on a wireless support structure in a documented and approved plan in place at the time an application is filed.
 - A reservation of space shall not preclude placement of a pole or collocation of a small cell facility.
 - If replacement of the wireless support structure is necessary to accommodate the collocation of the small cell facility and the future use, the operator shall pay for and install the replacement of the wireless support structure, which must accommodate the future use.

4.2 New Wireless Support Structures and Small Cell Facilities (Type 2 Requests)

4.2.1 Maximum Permitted Height

- The maximum permitted height for private wireless support structures, antennas and associated small cell facilities shall not exceed forty (40) feet in height above established grade as measured at the base of the wireless support structure, except as provided below.
- The maximum permitted height for private wireless support structures, antennas and associated small cell facilities shall not exceed thirty-five (35) feet in height in areas meeting the following criteria:
 - The area is within 300 feet of the proposed site for a new wireless support structure in the same or connecting rights-of-way, and there are no existing wireless support structures or utility poles greater than 30 feet in height above ground level;
 - The maximum permitted height for building construction in the underlying zoning district is thirty-five (35) feet in height above ground level or less.

4.2.2 Minimum Spacing Requirements

- Minimum spacing between proposed and existing privately owned wireless support structures
 - The minimum horizontal distance between a new wireless support structure and associated small cell facilities and any other existing, or permitted but unconstructed, wireless support structures and small cell facilities on the same side of the right-of-way at the time a complete application is filed with the city, irrespective of the owners/operators, shall be not less than 300 linear feet, as measured parallel to the right-of-way, unless an alternate spacing requirement is provided in the Context Specific Design Guidelines.
- Spacing between proposed wireless support structures and existing publicly owned wireless support structures
 - New wireless support structures shall be located midway between the immediately adjacent existing publicly-owned wireless support structures on either side of the proposed wireless support structure to the maximum extent possible.
- Multiple requests in violation of spacing requirements
 - If multiple requests are received to install two or more wireless support structures that would violate the applicable spacing requirements, or to collocate two or more small cell facilities on the same wireless support structure, notwithstanding division (I) of section 4939.0313 of the Revised Code, the city may resolve conflicting requests through whatever reasonable and nondiscriminatory manner it deems appropriate.



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- City proposed alternative location for wireless support structures.
The city may propose an alternate location to any proposed location of a new wireless support structure, subject to the following:
 - The alternate location is within one hundred (100) feet of the proposed location; or
 - The alternate location is within a distance that is equivalent to the width of the right-of-way in which the new wireless support structure is proposed, whichever is greater; and
 - The operator shall use the alternate location if it has the right to do so on reasonable terms and conditions and the alternate location does not impose technical limits or additional costs.

- Waiver to city directed alternate wireless support structure location or undergrounding requirements
Small cell operators may seek a waiver of the undergrounding or alternative location requirements for the placement of a new wireless support structure if the operator is unable to achieve its service objective using a small cell facility under the following circumstances:
 - From a location in the right-of-way where the prohibition does not apply;
 - In a utility easement within the right-of-way 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.

4.2.3 Required Setbacks

- Preferred Alignment
 - The centerline of new support structures shall be installed in alignment with existing poles where present, or with street trees along the same side of the right-of-way, unless otherwise required in the Context Specific Design Guidelines.

- Minimum Distance from Travelway
 - Equipment shall be placed so as not to impede or impair public safety or the legal use of the right-of-way by the traveling public, and in no case shall any portion of new support structure be located less than two feet from the travel way, edge line, face of curb, sidewalk, bike lane, or shared-use path.

- Minimum Distance from Existing Objects in the Right-of-Way
 - New wireless support structures shall be located a minimum of twelve (12) feet from any permanent object or existing lawful encroachment in the right-of-way to allow for access.

- Minimum Distance from Intersections and Driveway Aprons
 - Wireless support structures shall be located a minimum of twelve (12) feet from driveway aprons.
 - Wireless support structures shall be located outside of intersection sight distance triangles, whenever possible. Please refer to Intersection Sight Distance Policy:

<http://dublinohiousa.gov/engineering/engineering-permits-drawings-and-policies>

- Minimum Distance from Street Trees and Protected Trees in the Vicinity.
 - Wireless support structures shall be sited outside of the critical root zone of existing street trees and any existing protected trees having a six (6) inch or greater diameter at breast height (DBH) located in the immediate vicinity, including protected trees on private property as defined in the City of Dublin Tree Preservation Code:

<http://forestry.ohiodnr.gov/portals/forestry/pdfs/urban/dublinpreserv.pdf>



- Encroachments Prohibited
 - No portion of a wireless support structure or small cell facility cabinet or enclosure may encroach at grade or within the airspace beyond the right-of-way or over the travelway.

4.2.4 Wireless Support Structure Design Specifications

- Pole Specifications
 - All new wireless support structures shall be constructed of solid hot-dipped galvanized steel, be round in shape with a smooth pole shaft.
 - Wireless support structures incorporating pole mounted small cell facilities shall be tapered in diameter from the base to the top, with a maximum diameter of 12 inches at the base and a maximum diameter of 8 inches at the top.
 - Wireless support structures incorporating small cell facilities in an equipment cabinet within a transformer base may utilize poles tapered in diameter or poles having a consistent outside diameter.
 - All poles shall be scaled to 0.5 to 0.75 times the maximum width of the cabinet, with a ten (10) inch minimum outer pole diameter at the widest portion of tapered poles.
- Transformer Base
 - All new wireless support structures shall include a one-piece cast aluminum alloy transformer base in a breakaway design, consistent with specifications of City of Dublin Standard Drawing SL-02 or as designed by a professional engineer licensed and registered in the State of Ohio, and subject to the City Engineer's review and approval.
- Foundation
 - All new wireless support structures must be supported with a reinforced concrete foundation designed, stamped, sealed and signed by a professional engineer licensed and registered in the State of Ohio, and subject to the City Engineer's review and approval.
 - Anchor bolts must be constructed from high strength steel per City of Dublin Standard Drawing SL-04 and in a length and diameter determined, stamped, sealed and signed by a professional engineer licensed and registered in the State of Ohio, and subject to the City Engineer's review and approval.
 - All anchor bolts must be concealed from public view, with an appropriate pole boot or cover powder coated to match the pole color.
- Color
 - To ensure consistency among right-of-way infrastructure, color for all wireless support structures and bases shall be as prescribed in the Context Specific Design Guidelines, or as otherwise approved by the City Engineer.

4.3 Small Cell Facilities (All Request Types)

4.3.1 Antennas

- Maximum Size
 - Each antenna shall be located entirely within a shroud enclosure of not more than six (6) cubic feet in volume.
 - The diameter of the antenna or antenna enclosure should not exceed the diameter of the top of the wireless support structure pole, and to the maximum extent practical, should appear as a seamless vertical extension of the pole.
 - In no case shall the maximum diameter of the shroud be wider than one and one half times the diameter of the top of the pole.



4. GENERAL DESIGN GUIDELINES

- Where maximum shroud diameter exceeds diameter of the top of the pole, the shroud shall be tapered to meet the top of the pole.
- Mounting Location
 - Unless otherwise required by the Context Specific Design Guidelines, all antenna shall be mounted to the top of the wireless support structure pole, aligned with the centerline of the structure.
- Design Specifications
 - Shape. Antennas shall be generally cylindrical in shape.
 - Enclosure. Antenna shall be completely housed within a cylindrical shroud that is capable of accepting paint to match the wireless support structure.
 - Color. To ensure consistency among right-of-way infrastructure, color for all antennas and shrouds shall match the color of the wireless support structure as prescribed in the Context Specific Design Guidelines, or as otherwise approved by the City Engineer.

4.3.2 Associated Small Cell Facilities and Equipment

- Maximum Size
 - Exclusive of the antenna, all wireless equipment associated with the small cell facility shall not cumulatively exceed twenty-eight (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.
- Encroachments Prohibited
 - No portion of a wireless support structure or small cell facility cabinet or enclosure may encroach at grade or within the airspace beyond the right-of-way or over the travelway.
- Screening and Installation Location. All small cell facilities, associated equipment and cabling shall be completely concealed from view within an enclosure, and may be installed in the following locations:
 - Within an equipment enclosure mounted to the wireless support structure;
 - Within an equipment cabinet integrated within the transformer base of a new wireless support structure; or
 - Within a ground-mounted cabinet physically independent from the wireless support structure.
- Color
 - To ensure consistency among right-of-way infrastructure, color for all small cell facilities and enclosures/ cabinets attached to wireless support structures, integrated within the transformer base, or ground-mounted cabinets shall match the color of the associated wireless support structure as prescribed in the Context Specific Design Guidelines, or as otherwise approved by the City Engineer.

4.3.3 Small Cell Facilities Mounted to Wireless Support Structures

- Minimum Mounting Height
 - All small cell facilities mounted to wireless support structures shall provide a minimum clearance of 10 feet above established grade.
- Maximum Permitted Protrusion of Enclosure from Wireless Support Structure Pole
 - Small cell equipment enclosures shall not protrude more than eighteen (18) inches beyond the face of the pole to the outermost portion of the enclosure.
 - Small cell equipment enclosures should be installed as flush to the wireless support structure pole as practical. In no case shall an enclosure be installed more than four inches from the wireless support structure



pole.

- Required Enclosure Mounting Location
 - All small cell facilities and equipment enclosures shall be mounted on the side of the pole opposite the direction of vehicular traffic of the adjacent roadway. Enclosures shall extend perpendicular from the pole and parallel to the right-of-way.
- Required Arrangement of Multiple Small Cell Facility Cabinets
 - All pole-mounted equipment must be installed as flush to the pole as possible. Where multiple enclosures are proposed on a wireless support structure pole, the enclosures shall be grouped as closely together as possible on the same side of the pole.
- Design Specifications
 - Size. Small cell equipment enclosures should be the smallest size practicable to house the necessary small cell facilities and equipment.
 - Small cell equipment enclosures shall be cylindrical or rectangular in shape, and should generally be no wider than the maximum outside diameter of the pole to which it is attached, to the maximum extent possible.
 - Attachment. The shroud enclosure shall be securely strapped to the wireless support structure pole using stainless steel banding straps. Through-bolting or use of lag bolts on publicly owned wireless support structures is prohibited. New wireless support structures may utilize mounting brackets in accordance with the maximum horizontal offset requirements. Care should be taken to integrate the mounting hardware into the enclosure design.
 - Concealment of Gap. Metal flaps or “wings” shall extend from the enclosure to the pole to conceal any gap between the enclosures and the pole. The design of the flaps shall be integrated with the design of the enclosure.
 - Owner Identification. A four (4) inch by six (6) inch (maximum) plate with the carrier’s name, location, identifying information, and emergency telephone number shall be permanently fixed to the enclosure on the side of the cabinet opposite the direction of vehicular traffic of the adjacent roadway.

4.3.4 Small Cell Facilities Cabinets Integrated within a Wireless Support Structure Transformer Base

- Transformer Base/Cabinet Size
 - Equipment cabinets integrated into the support structure transformer base shall have a maximum width or diameter of twenty-four (24) inches, and a maximum height of five (5) feet.
 - The top of the cabinet shall have no flat horizontal area greater than two (2) inches as measured outward from the pole to the edge of the cabinet to prevent objects from being placed on top the equipment cabinet.
- Siting Requirements
 - Small cell facilities cabinets within transformer bases and associated wireless support structures are prohibited to be located within sight visibility triangles. Please refer to Intersection Sight Distance Policy:

<http://dublinohiousa.gov/engineering/engineering-permits-drawings-and-policies>

- Design Specifications
 - Shape. Transformer Base/Cabinet shape shall either be tapered with a trapezoidal or truncated cone section or cylindrical in shape.
 - Transition to Pole. A decorative transition or base cover shall be installed over the equipment cabinet upper bolts to match the equipment cabinet size and color.
 - Owner Identification. A four (4) inch by six (6) inch (maximum) plate with the carrier’s name, location, identifying information, and emergency telephone number shall be permanently fixed to the cabinet on the side



4. GENERAL DESIGN GUIDELINES

of the cabinet opposite the direction of vehicular traffic of the adjacent roadway.

- Attachment to Foundation. Transformer base/cabinet shall feature a breakaway design in the event of collisions.

4.3.5 Ground-Mounted Small Cell Facilities

■ Siting Requirements

- So as not to impede or impair public safety or the legal use of the right-of-way by the traveling public, in no case shall a ground-mounted small cell facility cabinet be located closer than two feet from the travel-way, edge line, face of curb, sidewalk, bike lane, or shared-use path as measured to the nearest part of the wireless support structure.
- Ground-mounted small cell facility cabinets shall be located a minimum of twelve (12) feet from any permanent object or existing lawful encroachment in the right-of-way to allow for access.
- Ground-mounted small cell facility cabinets shall not be sited in conflict with required intersection sight distance triangles. Please refer to Intersection Sight Distance Policy:

<http://dublinohiousa.gov/engineering/engineering-permits-drawings-and-policies>

- Ground-mounted small cell facility cabinet locations shall be located a minimum of twelve (12) feet from driveway aprons as measured parallel to the right-of-way.

■ Design Specifications

- Attachment to Foundation/Slab: Cabinets must be secured to a concrete foundation or slab with a breakaway design in the event of collisions.
- Owner Identification. A four (4) inch by six (6) inch (maximum) plate with the Carrier's name, location, identifying information, and emergency telephone number shall be permanently fixed to the cabinet.

■ Additional Landscape Screening

- Screening of small cell facility cabinets with ~~a variety of evergreen~~ plant material ~~may be is~~ required, ~~consistent with the landscape character based on the characteristics~~ of the surrounding area.
- All ~~proposed ground mounted equipment cabinets landscaping proposed within the right-of-way~~ shall be reviewed for ~~determination of applicability of the landscape screening requirement based on the surrounding context, and where required, for~~ appropriateness of the proposed planting plan and plant specifications by the City of Dublin Landscape Architect, Department of Parks and Recreation.

4.3.6 Power Supply and Fiber Optic Connections (All Request Types)

■ Independent Power and Communication Sources Required

- Small cell facilities located on city-owned wireless support structures may not use the same power or communication source providing power and/or communication for the existing facility original to the purposes of the support structure. The independent power source must be contained within a separate conduit inside the support structure. The applicant shall coordinate, establish, maintain and pay for all power and communication connections with private utilities.

■ Utility Undergrounding Required

- Where an Underground Utility District is present, all service lines from the power source to the small cell facilities and wireless support structure shall be located underground.

■ Wiring, Cables and Conduit Requirements

- All wiring and cables must be housed within the steel support structure or pole and extended vertically with-



- in a flexible conduit.
- Spools and/or coils of excess fiber optic or coaxial cables or any other wires shall not be stored on the pole except completely within the approved enclosures or cabinets.
- Exposed wires, cables, connections and external conduit are prohibited, except as specified in the Context Specific Design Guidelines based on the characteristics of the wireless support structure.
- Underground conduit shall meet the specifications of City of Dublin Standard Drawing SL-05.

4.3.7 Other Small Cell Facilities Prohibitions

- Lighting
 - Lighting associated with small cell facilities is prohibited. Any internal lights associated with electronic equipment shall be shielded from public view.
- Signage
 - Signage is prohibited on all small cell facilities and wireless support structures, including stickers, logos, text, and other non-essential graphics and information other than the owner identification unless required by FCC.
- Prohibited Wireless Facilities
 - Microwave, macro towers, and other wireless backhaul facilities are not permitted within the right-of-way.

4.4 Removal of Small Cell Facilities and Wireless Support Structures (Type 3 Requests)

4.4.1 Remediation of City-Owned Support Structures

- All City-owned support structures must be returned to an equal or better state, upon removal of small cell facilities. All mounting hardware and equipment must be removed from the site. All holes left in the pole must be neatly sealed from any moisture intrusion and painted to match the pole.

4.4.2 Remediation of Sites

- Applicant shall restore all areas of the right-of-way impacted by the small cell facilities and/or wireless support structure installation and/or removal to equal or better condition.



5. CONTEXT SPECIFIC DESIGN GUIDELINES



5. CONTEXT SPECIFIC DESIGN GUIDELINES

The design and character of the right-of-way in the City of Dublin is defined by a variety of interconnected factors—the most prevalent are the functional classification of the roadway within the right-of-way and the predominant land uses along the right-of-way. These variables influence the amount of space available in the right-of-way outside of the travel lanes for elements such as sidewalks and shared-use paths, street trees, street lights and utility infrastructure, as well as the aesthetic qualities of these elements.

The unique environmental aesthetics of each area, as well as the characteristics of the right-of-way itself must be taken into consideration in the deployment of small cell facilities and wireless support structures. These facilities must blend seamlessly into the surrounding context to the maximum extent possible.

For the purposes of outlining context specific small cell facilities and wireless support structures design guidelines, five districts have been defined based on the unique existing and desired character of the rights-of-way within these areas. These districts are:

- Historic Dublin
- The Bridge Street District
- Residential Districts
- The West Innovation District
- Other Business Neighborhoods and Commercial Districts.

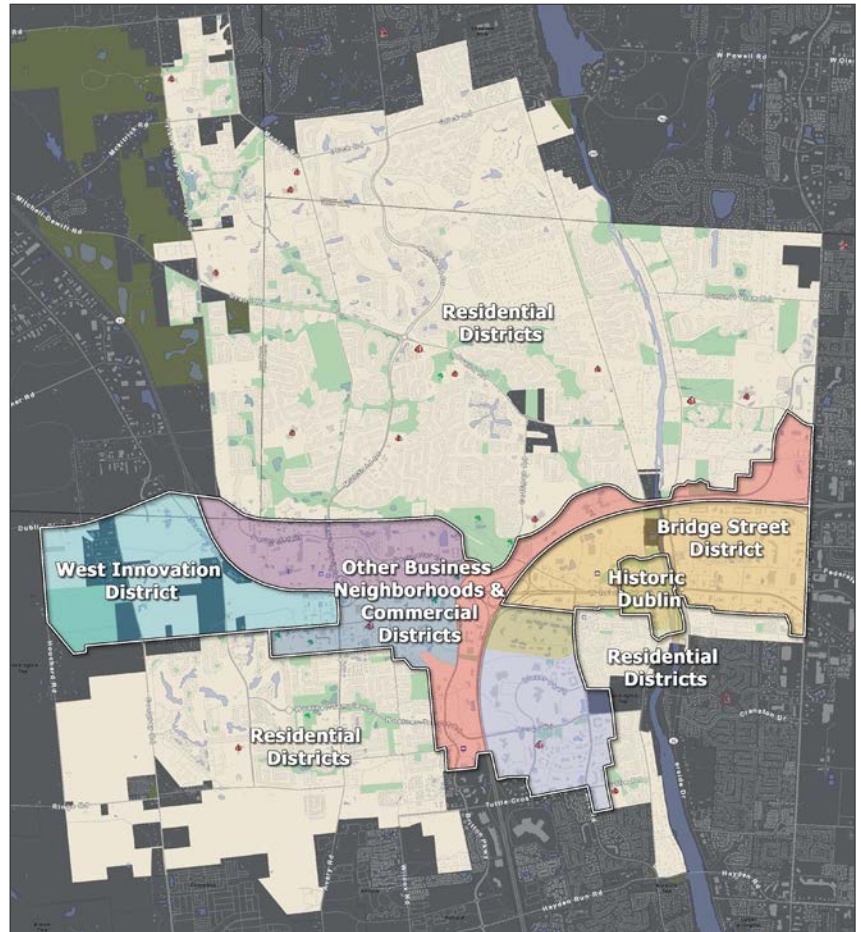


Figure 5A--Context Specific Design Guidelines Districts



The boundaries of each district are depicted in Figure 5A—Context Specific Design Guidelines Districts. In addition to the General Design Guidelines described in Chapter 4, the following Context Specific Guidelines must be met. Where conflicts exist between the guidelines, the Context Specific Guideline shall prevail over the General Design Guideline.



5. CONTEXT SPECIFIC DESIGN GUIDELINES

5.1 Historic Dublin

5.1.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Side Streets, Lanes and Alleys - Preferred
 - Historic Dublin is characterized by a pattern of small blocks accessed by a number of narrow streets and lanes that function as service streets or alleys at the rear of the lots and where a variety of existing above grade infrastructure is present.
 - Preferred rights-of-way for siting of small cell facilities and wireless support structures include Blacksmith Lane, Mill Lane, Darby Street, Wing Hill, Spring Hill, Eberly Hill, Pinneyhill Lane, and John Wright Lane, except for segments of these streets which extend to the east of South and North Blacksmith Lane. These The preferred streets are highlighted in yellow in Figure 5.1A.

- Bridge Street, High Street, Riverview Street and Franklin Street Corridors – Discouraged
 - These corridors are highlighted in orange in Figure 5.1A, and are character defining elements of Historic Dublin. These streets are the ‘front doors’ to businesses and residences and possess a strong pedestrian environment that should be free of visual clutter along the streetscapes to the maximum extent possible.
 - Existing pedestrian-scale decorative street lights and poles fixtures cannot accommodate new installations and are not suitable for replacement.

- Bridge Street and High Street Intersection - Strongly Discouraged
 - The intersection of Bridge Street and High Street is the historic core of the City of Dublin. As such, the aesthetic character of these streets through Historic Dublin has been carefully designed and regulated to maintain the high quality image of Historic Dublin.
 - The area available within the right-of-way for infrastructure is very limited, and where street lights and other vertical infrastructure is present, it is designed at an appropriate scale and aesthetic quality fitting to this unique area.
 - The Bridge and High Street inter-



Figure 5.1A--Historic Dublin Boundary and Small Cell Facilities Siting Preferences Map



section boundary is defined as the right-of-way of these streets bound by Franklin Street to the west, North and South Riverview to the east, North Street to the North and Waterford Drive to the south, as highlighted in red in Figure 5.1A.

5.1.2 Installation Type Preferences

- Type 1 Requests Preferred
 - The most preferred installation type in Historic Dublin is a collocation of an antenna and associated small cell facilities on an existing privately owned utility pole within the service street rights-of-way listed in Section 5.1.1. An example of this type of wireless support structure and an illustration of a Type 1 collocation to this existing support structure is depicted in Figure 5.1B.
 - The second most preferred installation type in Historic Dublin is a collocation of an antenna on an existing privately owned utility pole with small cell facilities enclosed in a ground-mounted cabinet within the service street rights-of-way listed in Section 5.1.1.
 - Existing decorative light poles in Historic Dublin as depicted in Figure 5.1C are ineligible for Type 1 collocations of small cell facilities due to the design aesthetics, height and structural capacity of these fixtures. Any modifications to the existing decorative street lights and poles will be inconsistent with the design of the existing fixtures.
- Type 2 Requests Strongly Discouraged
 - The least preferred installation type in the Historic District is a new wireless support structure with small cell facilities within the highly visible 'front door' rights-of-way of Historic Dublin, including but not limited to High Street, Bridge Street, North and South Riverview Street, and Franklin Street.
 - Type 2 Requests for replacement of existing pedestrian-scaled decorative light poles, bases, or luminaires to accommodate small cell facilities will not be permitted as any replacement will be inconsistent with the design of the existing fixtures.



Figure 5.1B--Illustrative Type 1 Collocation Request on Existing Private Wooden Utility Pole (at right)



Figure 5.1C--Decorative Pedestrian-Scale Street Lights in Historic Dublin

5.1.3 Type 1 Installation Details and Specifications

- Use of Existing Decorative Pedestrian-Scale Street Lights
 - Not permitted.
- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3

5. CONTEXT SPECIFIC DESIGN GUIDELINES

5.1.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited in alignment with other existing poles on the same side of the right-of-way, and aligned as close as practicable with adjacent side property lines, or with shared wall locations in adjacent multi-tenant structures.
 - In no case shall a wireless support structure be sited directly in front of an adjacent building entrance or storefront.
 - Special care should be taken to avoid siting wireless support structures in conflict with business signs.
- Wireless Support Structure Height
 - New wireless support structures and antennas should be no taller than functionally necessary, and coordinate with the height of existing poles in the same right-of-way to the maximum extent practicable. In no case shall the overall height exceed the height requirements of Section 4.2.1.
- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the decorative light poles in the Historic District—black powder coated finish (Federal Standard #27038), or as otherwise approved by the City Engineer.

5.1.5 Ground-mounted Small Cell Equipment Details and Specifications

- Maximum Permitted Height of Ground-mounted Equipment Cabinets
 - The maximum permitted height for ground-mounted equipment cabinets shall not exceed three (3) feet as measured from established grade at the foundation/pad.
- Siting of Ground-mounted Small Cell Equipment Cabinets
 - Ground-mounted equipment cabinets are not permitted within the tree lawn/pedestrian furnishing zone of any right-of-way in Historic Dublin.
- Color
 - Color for all ground-mounted equipment cabinets shall be gray Federal Standard #26492 powder coated finish or as otherwise approved by the City Engineer.
- Additional Landscape Screening
 - Landscape screening of ground mounted equipment cabinets shall be as required under Section 4.3.5.



5.2 Bridge Street District (excluding Historic Dublin, please refer to Section 5.1)

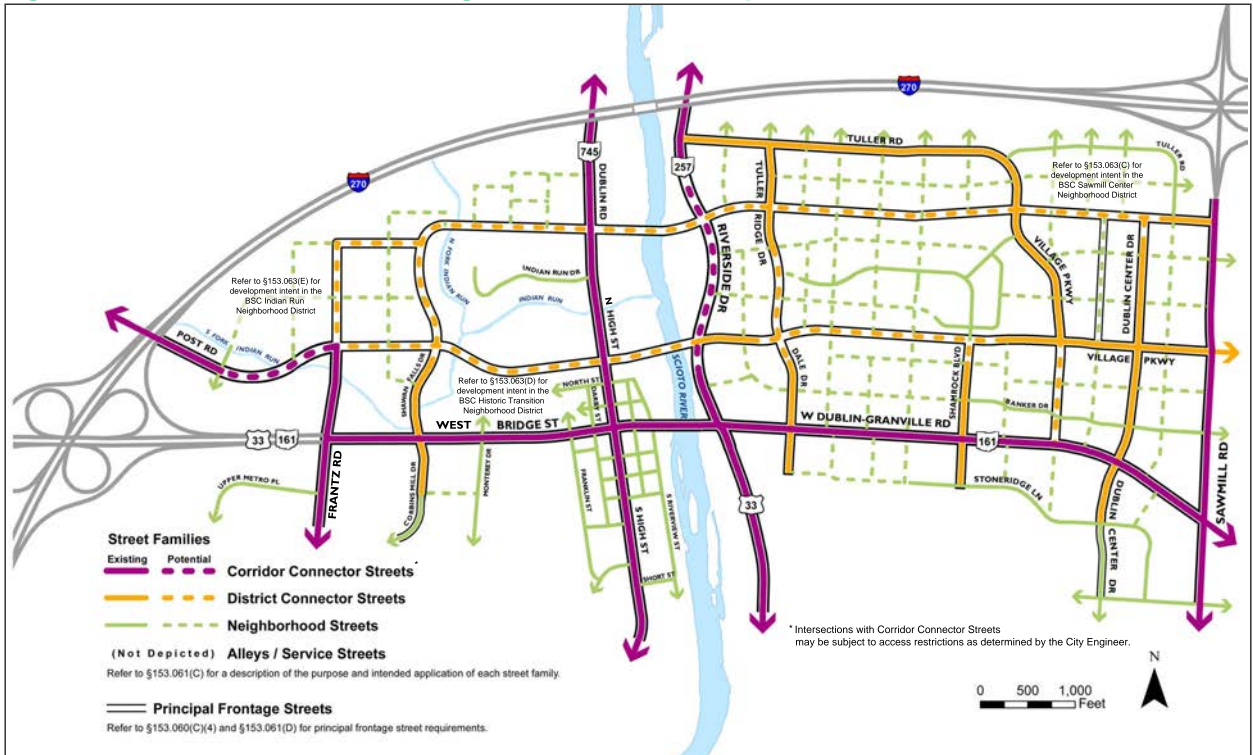


Figure 5.2A--Bridge Street District Street Network Map

5.2.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Corridor Connector and District Connector Streets - Preferred
 - In the mixed-use context of the Bridge Street District, Corridor Connector and District Connector rights-of-way are typically of a greater width than Neighborhood Streets, and have greater potential to accommodate small cell facilities and wireless support structures. Corridor Connector and District Connector Streets are designated in purple and orange respectively in Figure 5.2A
 - The rights-of-way of these street types generally include existing street lights and other infrastructure.

5.2.2 Installation Type Preferences--New BSD Streetscapes

- Type 2 Requests Preferred
 - The most preferred installation type in newly constructed streetscapes with the Bridge Street District are new, free-standing wireless support structures with small cell facilities enclosed in an equipment cabinet integrated within the transformer base or within a pole mounted enclosure. An illustration of a new wireless support structure with equipment integrated within the base is depicted in Figure 5.2B.
- Type 1 Requests Discouraged
 - In newly constructed BSD streetscapes where space is available at the edge of the right-of-way adjacent to open space, the incorporation of new wireless support structures and small cell facilities and/or collocations to existing wireless support structures may be possible, but shall not be permitted within parks, greenways or other designated open space types approved under §153.064 of the Bridge Street District Code. Figure 5.2C illustrates this type of installation.

5. CONTEXT SPECIFIC DESIGN GUIDELINES

- The least preferred installation type in the Bridge Street District are collocations on existing post top street lights, due to the design aesthetics and structural capacity of these fixtures. Any modifications to the existing decorative street lights and poles will be inconsistent with the design of the existing fixtures.
- Ground-mounted Small Cell Facilities Cabinets—~~New Streetscapes~~.
 - Ground-mounted small cell facilities cabinets are strongly discouraged from placement in newly created streetscapes within the Bridge Street District. These streetscapes are highly pedestrian oriented with predominantly hardscaped rights-of-way, and no ground mounted utility enclosures within the pedestrian zone or planting/site furnishing zone of the streetscape. The addition of small cell facilities cabinets within these landscape beds will be detrimental to the desired streetscape aesthetic of the Bridge Street District and are strongly discouraged.



Figure 5.2B--Illustration of Type 2 New Wireless Support Structure Request with Small Cell Equipment within Transformer Base (at right)

5.2.3 Installation Type Preferences - Existing BSD Streetscapes

- Type 1 Requests Preferred
 - The most preferred installation type in existing/unimproved streets and streetscapes that are not associated with a new Bridge Street street type are antenna collocations on existing street light poles or privately owned utility poles and small cell facilities within cabinets attached to the pole or in ground-mounted cabinets within the right-of-way.
- Type 2 Requests Discouraged
 - Based on the fairly wide availability of collocation options to city light poles and private utility poles in the existing streetscapes of the Bridge Street District, the least preferred installation type are new wireless support structures with small cell facilities.



Figure 5.2C--Illustration of Type 1 Collocation with Ground-mounted Small Cell Equipment along Open Space within the Right-of-Way.



5.2.4 Type 1 Installation Details and Specifications

- ~~Use of~~ Post Top Street Lights - New Streetscapes
 - Existing city-owned street lights with luminaires centered on the top of the pole are not engineered to support wireless facilities. Request for collocations to these street lights will not be permitted. An example of this street light is depicted in Figure 5.2D.
- ~~Use of~~ Bracket Arm and Standard Street Lights--New and Existing Streetscapes
 - Refer to General Design Guidelines.
 - Color of all small cell facilities shrouds, enclosures and cabinets shall match color of existing bracket arm street light poles--powder coated black to meet Federal Standard #595-B and conform to Color #27038 or as otherwise approved by the City Engineer.
- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3.



Figure 5.2D--Decorative Post Top Street Light in the Bridge Street District

5.2.5 Type 2 Installations Details and Specifications - New and Existing Streetscapes

- Siting of New Wireless Support Structures
 - Wireless support structures should only be sited within the planting/site furnishing zone of the right-of-way, and in no case shall these elements be sited in conflict with minimum clear pedestrian realm width requirements.
 - New wireless support structures should be sited as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way, or with shared wall locations in adjacent multi-tenant structures.
 - In no case shall a wireless support structure be sited directly in front of an adjacent building entrance or storefront.
 - Special care should be taken to avoid siting wireless support structures in conflict with building signs.
- Color
 - Color for new wireless support structures, antenna shrouds, pole and ground mounted equipment, and equipment cabinets within a transformer base shall be powder coated black to meet Federal Standard #595-B and conform to Color #27038 or as otherwise approved by the City Engineer.

5.2.6 Ground-mounted Small Cell Equipment Details and Specifications - New and Existing Streetscapes

- Maximum Permitted Height of Ground-mounted Equipment Cabinets
 - The maximum permitted height for ground-mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad.
- Siting of Ground-mounted Small Cell Equipment Cabinets
 - Ground mounted equipment cabinets may only be sited within areas of the right-of-way where required set-backs from the travelway and sidewalks and multi-use paths can be met as outlined in Section 4.3.5.
 - Ground-mounted equipment cabinets will not be supported within the planting zone/street furnishing zones of new Bridge Street District streetscapes, as described in Section 5.2.1.
 - Ground-mounted equipment cabinets may be supported within new Bridge Street District streetscapes which provide sufficient open space within the right-of-way as described in Section 5.2.2 and illustrated in Figure

5. CONTEXT SPECIFIC DESIGN GUIDELINES

~~5.2C. will not be supported.~~

- Color
 - Color for all ground-mounted equipment cabinets shall gray Federal Standard #26492 powder coated finish or as otherwise approved by the City Engineer.
- Additional Landscape Screening
 - Landscape screening of ground-mounted equipment cabinets shall be as required under Section 4.3.5.



5.3 Residential Districts (as outlined in Figure 5A)

5.3.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Arterial and Collector Streets - Preferred
 - Arterial and Collector Streets are the preferred location for small cell facilities and wireless support structures, except in locations adjacent to residences which front onto Arterial or Collector streets. To the maximum extent possible, proposed small cell facilities and wireless support structures should only be sited in areas of these rights-of-way where residences do not face the right-of-way or are accessed from Arterial or Collector Street rights-of-way.
- Local Streets - Strongly Discouraged
 - Street lights and other potential support structures are typically not present within the rights-of-way of local residential streets. The addition of small cell facilities and wireless support structures in front of residences would be detrimental to the aesthetic character of the neighborhood, particularly in areas where no other similar infrastructure exists within the rights-of-way.

<http://dublinohiousa.gov/developer-tools/thoroughfare-plan>

5.3.2 Installation Type Preferences

- Type 1 Requests Preferred
 - The most preferred installation type in residential districts are collocations of an antenna and associated small cell facilities on existing street light poles or privately owned utility poles within the right-of-way.
 - The second most preferred installation type in residential districts is a collocation of an antenna on existing street light poles or existing privately owned utility pole with small cell facilities enclosed in a ground mounted cabinet within the right-of-way.
- Type 2 Requests Strongly Discouraged
 - The least preferred installation type in residential districts are new wireless support structures with small cell facilities.

5.3.3 Type 1 Installation Details and Specifications

- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3

5.3.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way, or with shared wall locations in adjacent multi-tenant structures such as townhomes or condominiums.

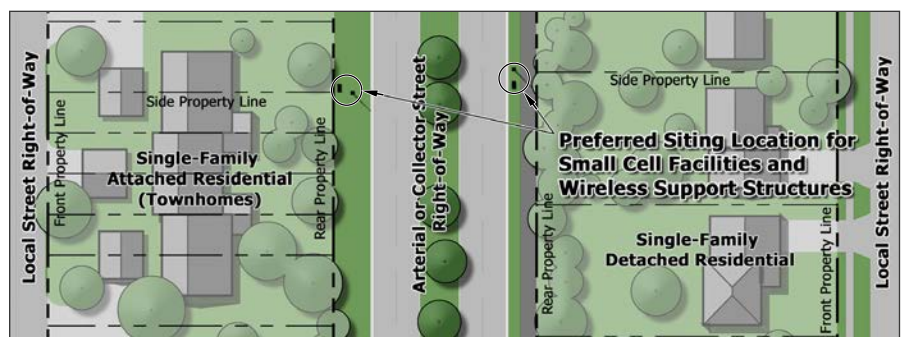


Figure 5.3A--Preferred Siting Location Diagram for Small Cell Facilities in Residential Areas



5. CONTEXT SPECIFIC DESIGN GUIDELINES

- In no case shall a new wireless support structure be sited in conflict with neighborhood identification signs and entry features.
- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35%, or as otherwise approved by the City Engineer.

5.3.5 Ground-mounted Small Cell Equipment Details and Specifications

- Maximum Permitted Height of Ground-mounted Equipment Cabinets
 - The maximum permitted height for ground-mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad to the top of the cabinet.
- Siting of Ground-mounted Small Cell Equipment Cabinets
 - Ground-mounted equipment cabinets may only be sited within tree lawns where required setbacks from the travelway and sidewalks and multi-use paths can be met.
- Color
 - Color for all ground-mounted equipment cabinets shall match the existing or proposed wireless support structures powder coated Federal Standard #595-C, Color 20040, or as otherwise approved by the City Engineer.
- Additional Landscape Screening
 - Landscape screening of ground-mounted equipment cabinets shall be as required under Section 4.3.5.



5.4 West Innovation District

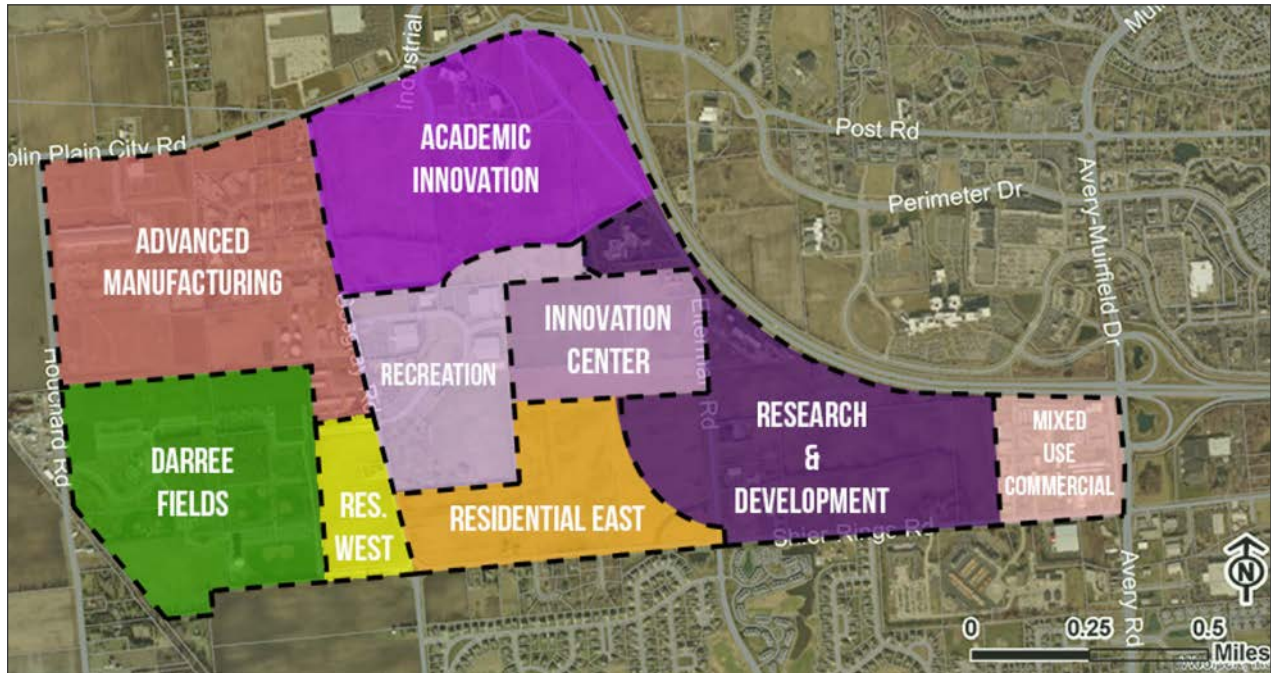


Figure 5.4A--West Innovation District Sub-District Plan

5.4.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Arterial and Collector Streets - Preferred
 - The West Innovation District is predominantly served directly by existing and planned Arterial and Collector Streets. These rights-of-way are the preferred location for small cell facilities and wireless support structures. While there are a limited number of Local Streets in these areas that are also supported for locations for small cell facilities and wireless support structures, Arterial and Collector Street rights-of-way widths generally afford more space in which to site these elements.

<http://dublinohiousa.gov/developer-tools/thoroughfare-plan>

5.4.2 Installation Type Preferences

- Type 2 Requests Preferred
 - The most preferred installation type in the West Innovation District are new, free-standing wireless support structures with small cell facilities enclosed either in an equipment cabinet integrated within the transformer base or within ground-mounted equipment cabinets. As the West Innovation District builds out over time and new thoroughfares are constructed, new wireless support structure locations should be planned and are preferred over retrofitted collocations on existing wireless support structures.
- Location Preference for Ground-mounted Small Cell Facility Cabinets
 - The most preferred siting locations for ground-mounted small cell facilities cabinets in the West Innovation District are the rights-of-way in the following Sub Districts based on the proposed land uses, development patterns, and naturalized streetscape planting design: Advanced Manufacturing, Recreation, Residential West and East.



5. CONTEXT SPECIFIC DESIGN GUIDELINES

- The least preferred siting locations are the rights-of-way within the Academic Innovation, Innovation Center, Research & Development, and Mixed-Use Commercial Sub Districts, as these areas propose more urbanized development patterns with pedestrian-oriented 'main street' streetscapes with less available space for ground-mounted cabinets. Small cell facilities should be enclosed within cabinets integrated with the transformer base to the maximum extent possible in these locations.

5.4.3 Type 1 Installation Details and Specifications

- Use of Standard Street Light Poles
 - Refer to General Design Guidelines.
 - Color of all small cell facilities shrouds, enclosures and cabinets shall match the color of existing standard street light poles--Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35% as approved by the City Engineer.
- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3.

5.4.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited midway between existing wireless support structures on either side, and as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way.
- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35%, or as otherwise approved by the City Engineer.

5.4.5 Ground-mounted Small Cell Equipment Details and Specifications

- Maximum Permitted Height of Ground-mounted Equipment Cabinets
 - The maximum permitted height for ground-mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad to the top of the cabinet.
- Siting of Ground-mounted Small Cell Equipment Cabinets
 - Ground mounted equipment cabinets may only be sited within areas of the right-of-way where required setbacks from the travelway and sidewalks and multi-use paths can be met.
- Color
 - Color for all ground-mounted equipment cabinets shall be gray Federal Standard #26492 powder coated finish or as otherwise approved by the City Engineer.
- Additional Landscape Screening
 - ~~Landscape screening of ground-mounted equipment cabinets shall be as required under Section 4.3.5.- Where space permits, equipment cabinets should either be incorporated into existing planting beds, or include a variety of evergreen and deciduous plant material at the foundation to screen the cabinets from view.-~~
 - ~~All proposed ground-mounted equipment cabinets shall be reviewed for determination of applicability of the~~



~~landscape screening requirement based on the surrounding context, and where required, for appropriateness of the proposed planting plan and materials by the City of Dublin Landscape Architect, Department of Parks and Recreation.~~

5.5 Other Business Neighborhoods/Commercially Zoned Districts

5.5.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Arterial and Collector Streets - Preferred
 - Business Neighborhoods and commercially zoned districts are predominantly served directly by Arterial and Collector Streets. These rights-of-way are the preferred location for small cell facilities and wireless support structures. While there are a limited number of Local Streets in these areas that are also supported for locations for small cell facilities and wireless support structures, Arterial and Collector Street rights-of-way widths generally afford more space in which to site these elements.

<http://dublinohiousa.gov/developer-tools/thoroughfare-plan>

5.5.2 Installation Type Preferences

- Type 1 Requests Preferred
 - The most preferred installation type in commercially zoned districts are collocations of an antenna and associated small cell facilities on existing street light poles or privately owned utility poles within the right-of-way.
 - The second most preferred installation type in commercially zoned districts is a collocation of an antenna on existing street light poles or existing privately owned utility pole with small cell facilities enclosed in a ground-mounted cabinet within the right-of-way. Figure 5.5A illustrates an example of this type of installation.

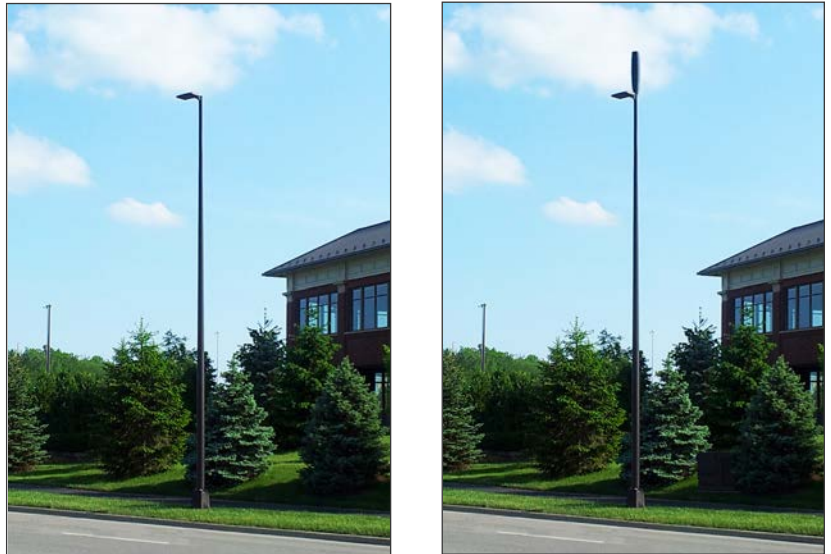


Figure 5.5A--Illustration of Collocation on Existing Standard Light Pole with Ground-mounted Facilities Cabinet Integrated into Existing Landscaping

- Type 2 Requests Discouraged
 - Based on the fairly wide availability of collocation options to city light poles throughout these areas, the least preferred installation type in commercially zoned districts are new wireless support structures with small cell facilities.

5.5.3 Type 1 Installation Details and Specifications

- Use of Standard Street Light Poles
 - Refer to General Design Guidelines
- Color
 - Color for antenna shrouds and pole mounted equipment enclosures shall match the color of the existing

street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35%, or as otherwise approved by the City Engineer.

- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3

5.5.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way.
- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35%, or as otherwise approved by the City Engineer.

5.5.5 Ground-mounted Small Cell Equipment Details and Specifications

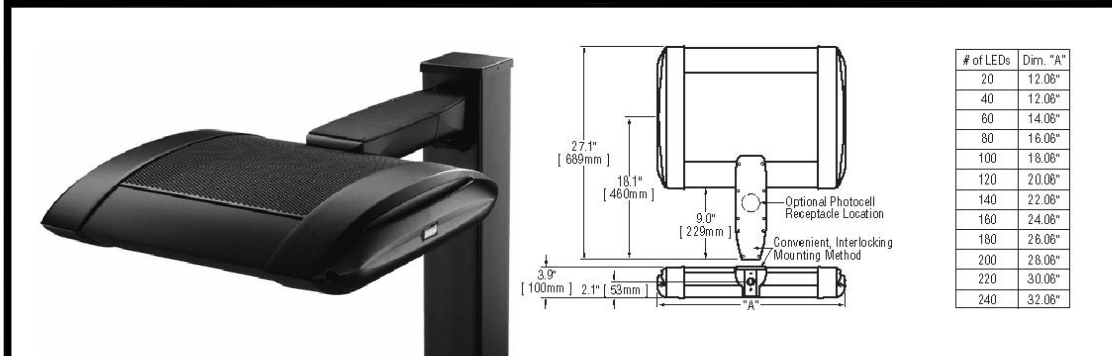
- Maximum Permitted Height of Ground-mounted Equipment Cabinets
 - The maximum permitted height for ground-mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad.
- Siting of Ground-mounted Small Cell Equipment Cabinets
 - Ground-mounted equipment cabinets may only be sited within areas of the right-of-way where required setbacks from the travelway and sidewalks and multi-use paths can be met.
- Color
 - Color for all ground mounted equipment cabinets shall be gray Federal Standard #26492 powder coated finish or as otherwise approved by the City Engineer.
- Additional Landscape Screening
 - ~~Landscape screening of ground-mounted equipment cabinets shall be as required under Section 4.3.5. Where space permits, equipment cabinets should either be incorporated into existing planting beds, or include a variety of evergreen and deciduous plant material at the foundation to screen the cabinets from view.~~
 - ~~All proposed ground-mounted equipment cabinets shall be reviewed for determination of applicability of the landscape screening requirement based on the surrounding context, and where required, for appropriateness of the proposed planting plan and materials by the City of Dublin Landscape Architect, Department of Parks and Recreation.~~



6. STANDARD DRAWINGS AND SPECIFICATIONS



6.1 Cree LED Luminaire--SL-01



LIGHTING DESIGN CRITERIA

MIN = 0.4 fc
 AVG/MIN RATIO = 3:1
 MAX/MIN RATIO = 6:1
 CROSSWALK AREA = 1.1-1.3 fc

GENERAL DESCRIPTION - LIGHT EMITTING DIODE (LED), TYPE II, III, IV OR V CUTOFF (AS SPECIFIED ON THE CONSTRUCTION DRAWINGS), ONE-PIECE EXTRUDED ARM. OPERATING VOLTAGE SHALL BE ** VOLTS, SINGLE PHASE.

** VOLTAGE REQUIREMENTS ARE TO BE SPECIFIED ON PLANS.

DISTRIBUTION - IES NEMA TYPE II, III, IV OR V CUTOFF.

APPROVED MANUFACTURER

- Cree LED: ARE-EDG-2M-DA-##-D-**-BZ-525-40K
- Cree LED: ARE-EDG-3M-DA-##-D-**-BZ-525-40K
- Cree LED: ARE-EDG-4M-DA-##-D-**-BZ-525-40K
- Cree LED: ARE-EDG-5M-DA-##-D-**-BZ-525-40K

NUMBER OF LED's TO BE SPECIFIED ON PLANS.

** VOLTAGE REQUIREMENTS ARE TO BE SPECIFIED ON PLANS.

CABLE - PROVIDE #10 XHHW, STRANDED COPPER 600V, 90 DEGREES CELSIUS CONDUCTORS. WIRE TO LUMINAIRE. SECURE TO LUMINAIRE ARM WITH CABLE GRIP PROVIDED WITH LUMINAIRE. PROVIDE ADEQUATE LENGTH TO EXTEND MIN. 2 FEET OUT OF HAND HOLE.

EXECUTION - ALL LUMINAIRES SHALL BE PLUMB AND LEVEL. ALL LAMPS SHALL BE OPERATIONAL PRIOR TO INSPECTION. ALL SURFACES SHALL BE CLEANED OF DIRT, DEBRIS, ETC. FREE OF SCRATCHES, DENTS, ETC.

METHOD OF MEASUREMENT - SEE ODOT SPECIFICATIONS SECTION 625.

BASIS OF PAYMENT - SEE ODOT SPECIFICATIONS SECTION 625.

Date: 5/1/2014



STANDARD DRAWING

LUMINAIRE

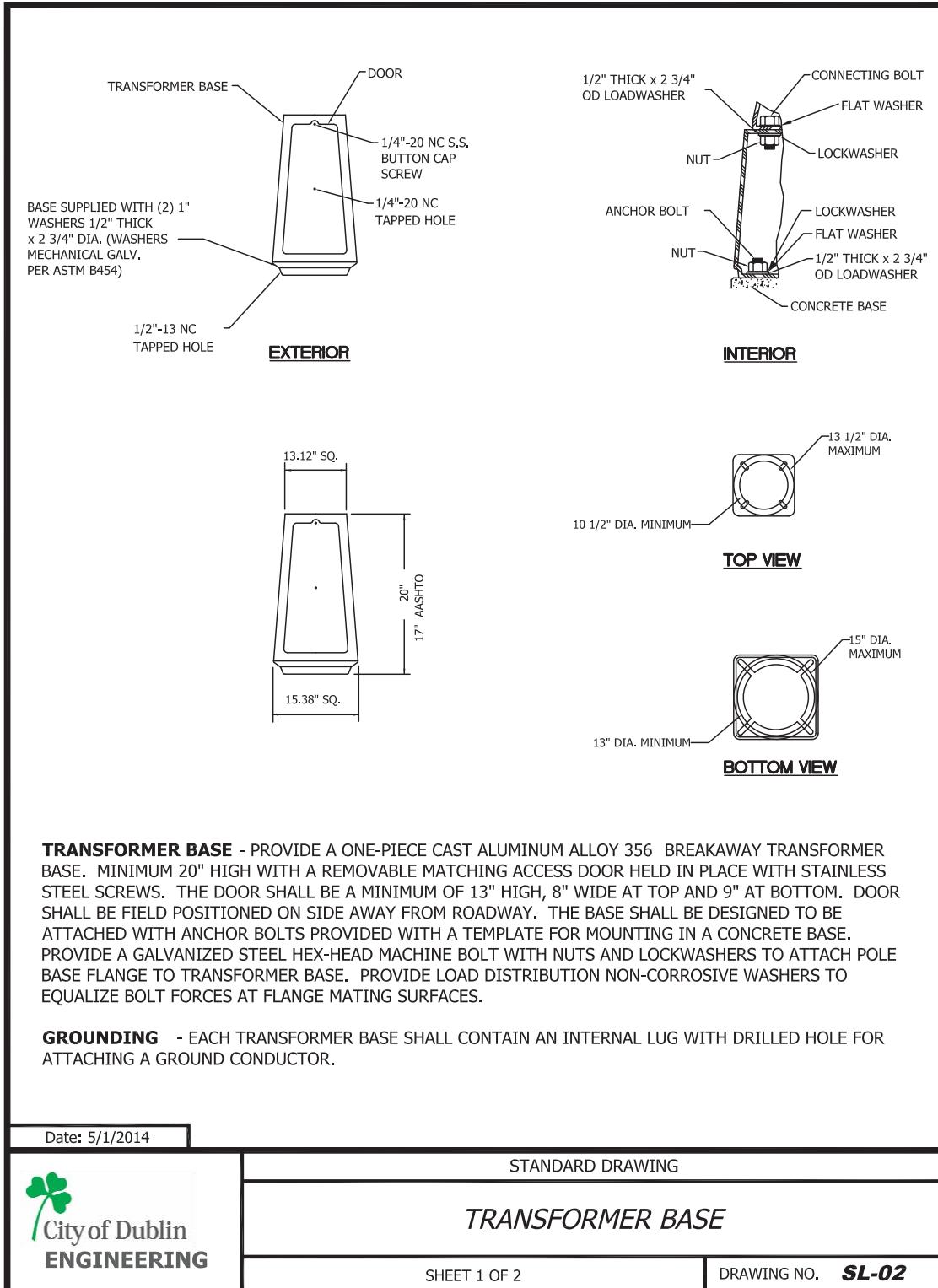
SHEET 1 OF 1

DRAWING NO. **SL-01**

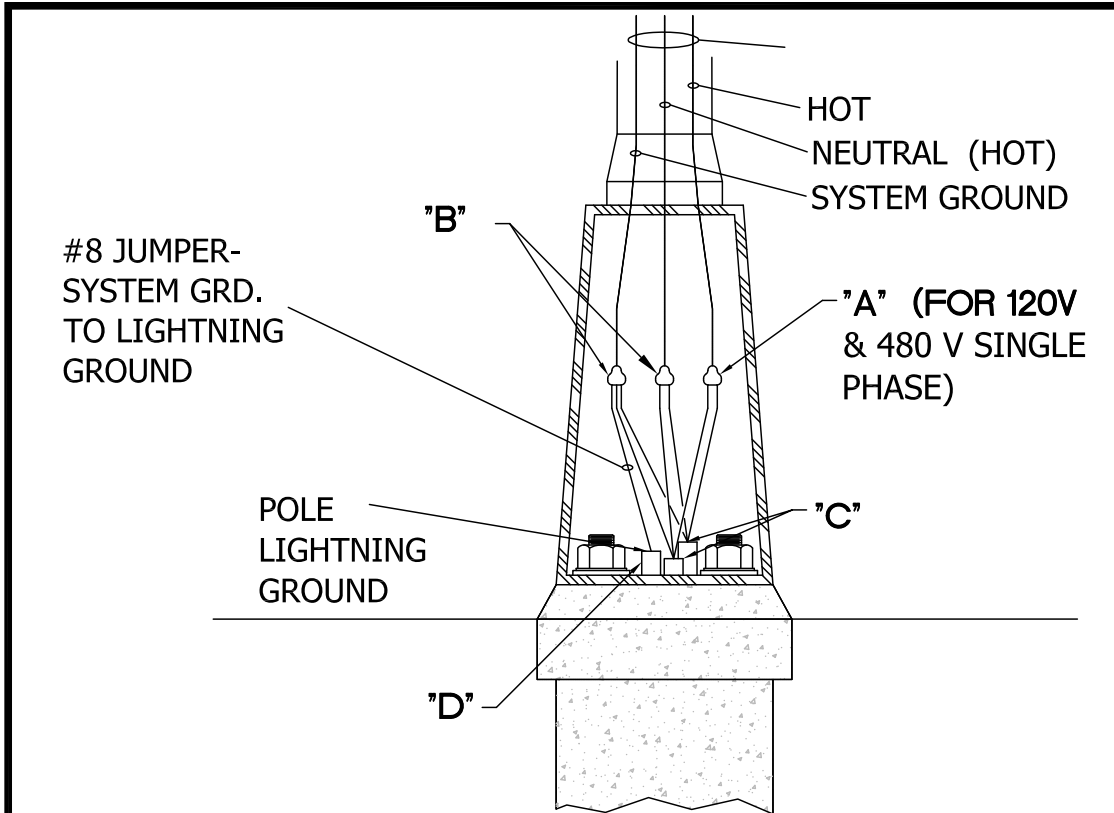


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6.2 Transformer Base--SL-02 (1 of 2)



6.3 Transformer Base--SL-02 (2 of 2)




CONNECTIONS

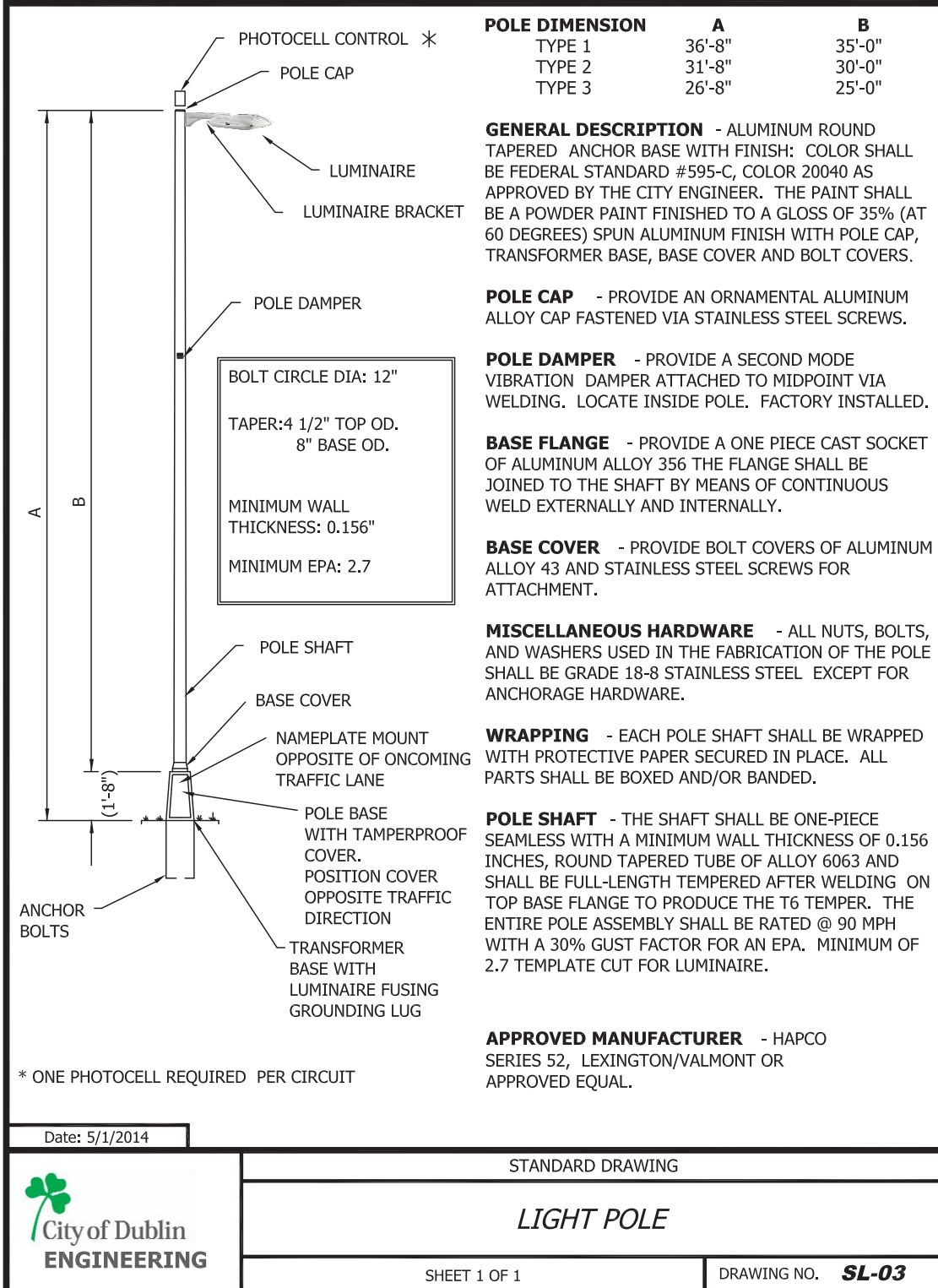
- "A" FUSED - INLINE Y CONNECTOR KIT TYPE II WITH WATERPROOF BOOTS AND BREAKAWAY RECEPTACLE. FUSE AT 5 AMPS, ELASTIMOLD STYLE 82 SERIES OR HOMAC FY SERIES, BUSS KTK-R FUSE. (SINGLE PHASE =1, DOUBLE PHASE = 2 PER POLE)
- "B" UNFUSED-INLINE 7 CONNECTOR KIT TYPE III WITH WATERPROOF BOOTS AND BREAKAWAY RECEPTACLE, ELASTIMOLD 83 SERIES OR HOMAC DY SERIES. (SINGLE PHASE =2, DOUBLE PHASE = 1 PER POLE)
- "C" PROVIDE MOLDED PLASTIC OR RUBBER CAPPING DEVICE THAT ONLY PERMITS WIRE PASS THROUGH WHILE PREVENTING DIRT, WATER, ETC. ENTRY.
- "D" POLE LIGHTNING GROUND LUG UNINSULATED COPPER COMPRESSION TERMINAL UL LISTED FOR 600V. SIZE FOR WIRE SPECIFIED. DRILL, TAP, AND BOLT TO TRANSFORMER BASE BURNDY YA SERIES. BOND SYSTEM GROUND TO LIGHTNING ROD GROUND.

PROVIDE 2' SLACK IN ALL WIRING TO BRING CONNECTORS AND FUSE HOLDERS OUT THRU HANDHOLE.

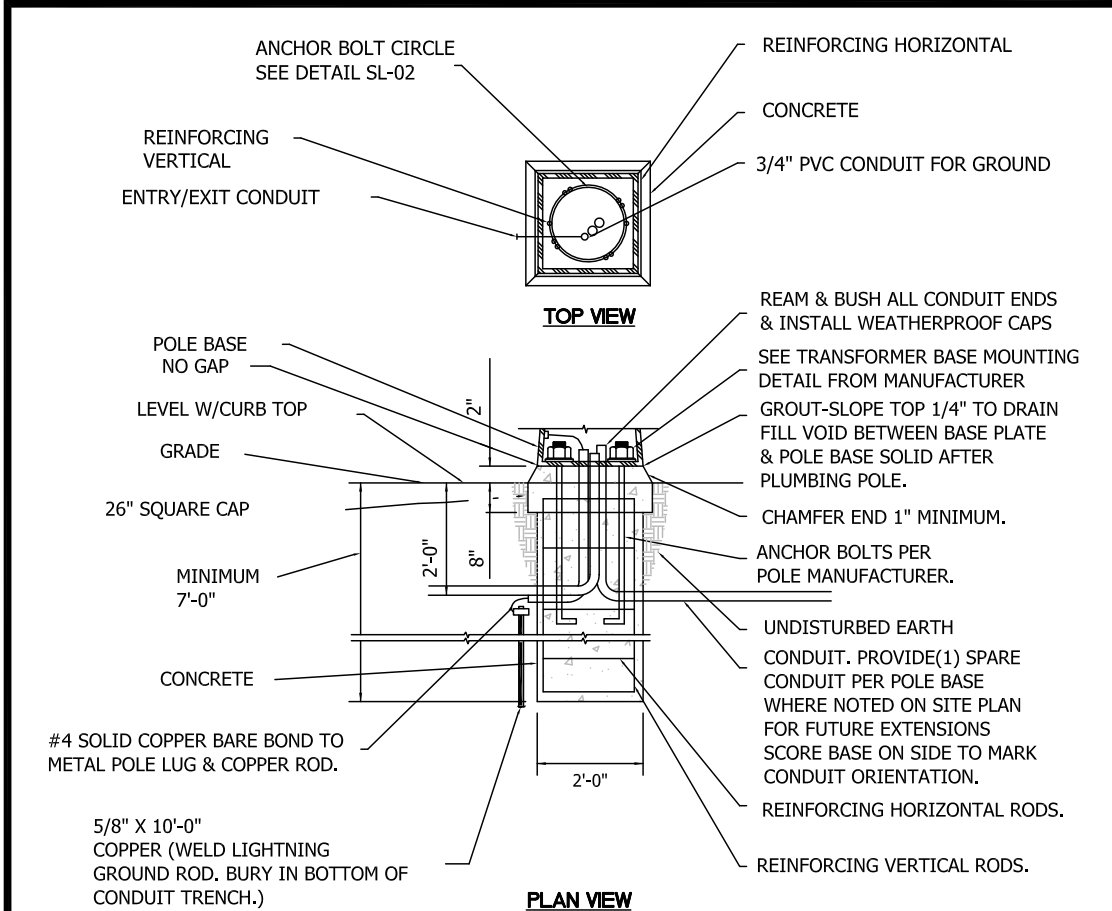
Date: 5/1/2014

	STANDARD DRAWING	
	<i>TRANSFORMER BASE</i>	
	SHEET 2 OF 2	DRAWING NO. SL-02

6.4 Light Pole--SL-03



6.5 Pole Foundation--SL-04 (1 of 2)



CONCRETE - CLASS C, 4000 PSI, 5-7% AIR ENTRAINED. FILL ALL EXPOSED SURFACE VOIDS. CHAMFER ALL EDGES, SLOPE TOP 1/4" WITH GROUT TO DRAIN WATER (FILL VOID BETWEEN BASE PLATE & POLE BASE SOLID, AFTER PLUMBING POLE), ADJUST SO TRANSFORMER BASE HAS NO GAP TO GROUTED SURFACE. HOT OR COLD WEATHER - FOLLOW ODOT CONSTRUCTION & MATERIAL SPECIFICATIONS SECTION 625.

CONCRETE FINISH - REMOVE ALL FORM MARKS, HAND RUB EXPOSED TOP AND SIDES WITH CARBIDE STONE.

REINFORCING - ASTM A-615 GRADE 60, TYPE S DEFORMED BILLET: #6 VERTICALS, (6 TOTAL), #4 HORIZONTALS 12" O.C., CIRCULAR FORMED. WIRE TIE ALL CONNECTIONS, MAINTAIN 3" MINIMUM CONCRETE COVER.

GROUNDING - PROVIDE 5/8" X 10'-0" COPPER WELD ONE-PIECE GROUND ROD. DRIVE A MINIMUM OF 2'-0" BELOW GRADE. RUN #4 AWG SOLID COPPER GROUNDING ELECTRODE CONDUCTOR IN 3/4" PVC CONDUIT FROM ROD TO ENCLOSURE GROUND BAR. "CAD" WELD WIRE CONNECTION AT ROD.

Date: 5/1/2014

STANDARD DRAWING



POLE FOUNDATION

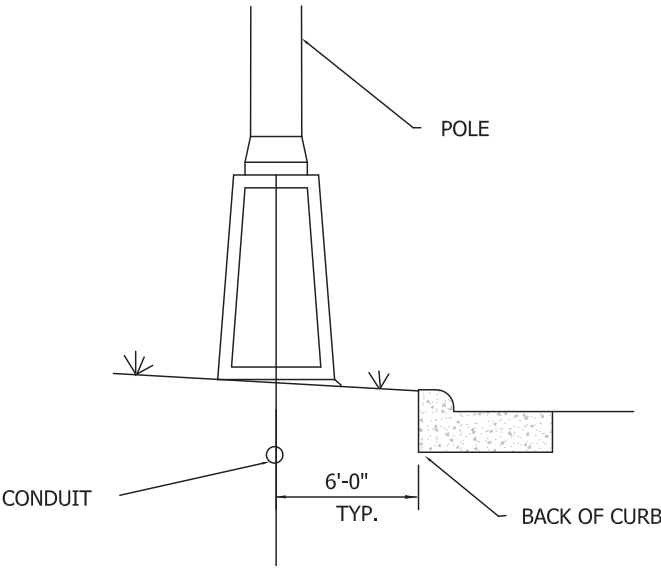

SHEET 1 OF 2

DRAWING NO. **SL-04**

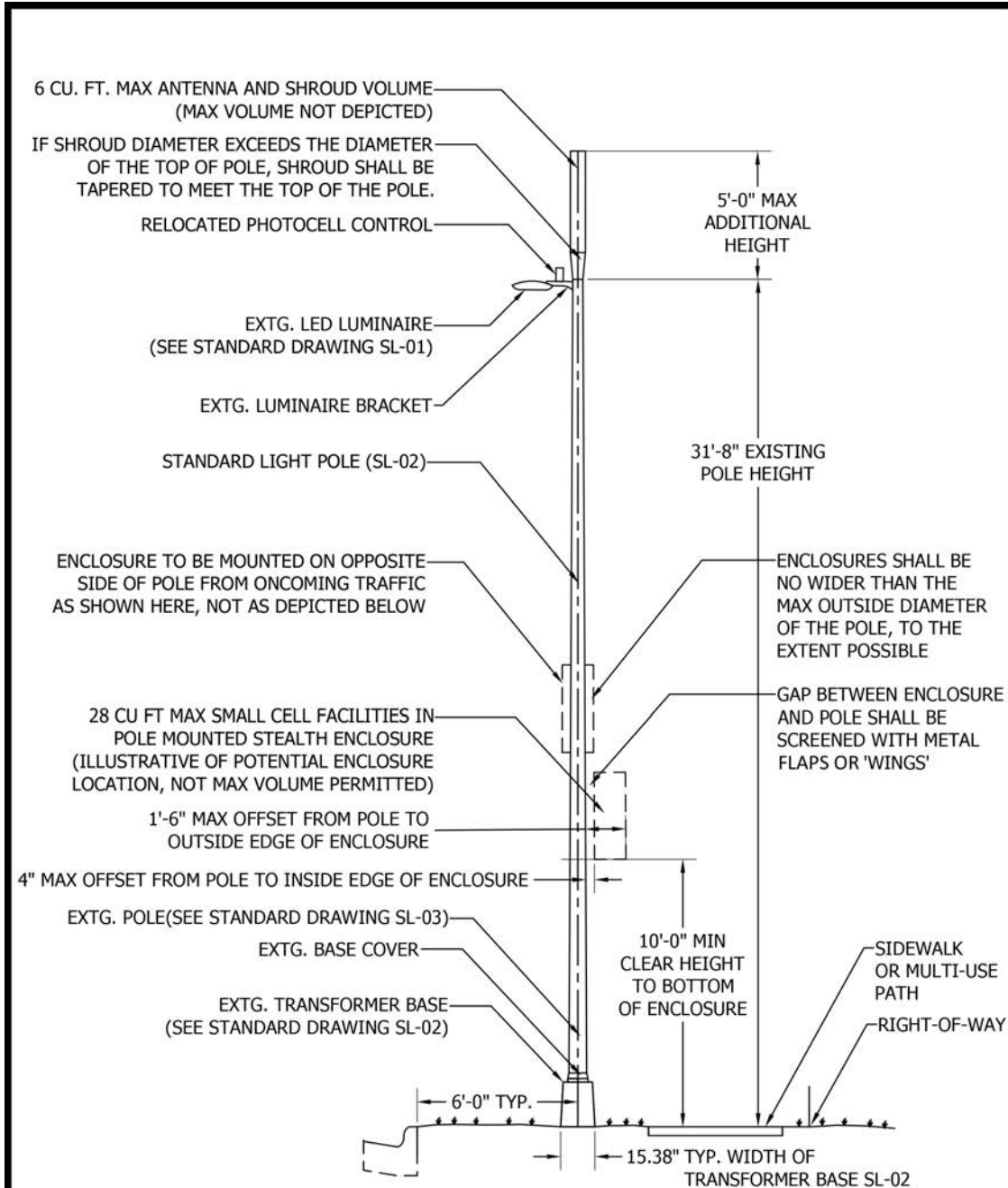


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6.6 Pole Foundation--SL-04 (2 of 2)

<p>LUMINAIRE FUSING - REFER TO TRANSFORMER BASE DETAIL SL-02</p> <p>GROUNDING LEG - REFER TO TRANSFORMER BASE DETAIL SL-02</p> <p>ANCHORAGE - PROVIDE A SET OF FOUR-50,000 PSI-MIN YIELD STEEL STRENGTH ANCHOR BOLTS, THREADED, HOT-DIPPED GALVANIZED AT THE THREADED END FOR AT LEAST 10". THE BOLTS SHALL INCLUDE A 4" MINIMUM RIGHT ANGLE HOOK AT THE UNTHREADED END. PROVIDE GALVANIZED NUT, LOCKWASHERS AND FLATWASHERS FOR EACH BOLT.</p> <p>GROUT - 10,000 PSI, HIGH STRENGTH, NON-SHRINK, NON-METALLIC, COMPLY WITH CRD-C-621, PROVIDE SAND COAT FINISH (PROVIDE SONNOGROUT OR APPROVED EQUAL).</p> <p>WEATHERPROOFING - PROVIDE PENETRATING SURFACE APPLIED, 1 COAT CONCRETE WATERPROOFING AGENT. MATERIAL SHALL BE CLEAR PENETRATING, WATER BASED, ALKYALKOXYLSILANE AND CONTAIN A MINIMUM OF 40% BY WEIGHT SOLIDS AND BE APPLIED PER MANUFACTURER'S DIRECTIONS. COVERAGE SHALL BE 150 SQ. FEET PER GALLON (PROVIDE HYDROZO ENVIROSEAL 40 OR APPROVED EQUAL). APPLY 1 COAT TO ALL CONCRETE EXPOSED SURFACES ABOVE GRADE.</p> <p>FIELD CONDITIONS - CONSULT ENGINEER FOR ABNORMAL SOIL CONDITIONS SILTS AND CLAY WITH WATER LIMITS GREATER THAN 50%, HIGH ORGANIC SOILS, SHALLOW BEDROCK, ETC.</p> <p>CONDUIT - SHALL BE HEAVY WALL 2" OR 3/4" PER GRAPHIC. RIGID NON-METALLIC SCHEDULE 40 PVC FOR USE ABOVE & BELOW GROUND OR CONCRETE ENCASED. RATED FOR 90 DEGREES CELSIUS CONDUCTORS AND USE IN DIRECT SUNLIGHT. MATERIAL SHALL BE UL LISTED AND COMPLY WITH NEMA TC2-1978 AND F.S. #WC-1094A. PROVIDE IN 10 FOOT SECTIONS. SEAL ALL JOINTS WATERTIGHT. GLUE JOINTS WITH PVC CEMENT. BUSH ALL ENDS. ALL BENDS SHALL USE LONG RADIUS PREFORMED ELBOWS. EXTEND CONDUIT TO MINIMUM 2'-0" BELOW GRADE. LOCATION TO BE COORDINATED WITH LANDSCAPING AND UTILITIES.</p> <p>IF UNIT TYPE DUCT CABLE IS UTILIZED IN TRENCHES IN LIEU OF PVC CONDUIT, AT POLE FOUNDATIONS RETAIN THE PVC CONDUIT SPECIFIED ABOVE IT SHALL FUNCTION AS A SLEEVE FOR THE DUCT CABLE. OVERSIZE PVC CONDUIT EITHER 2 1/2" OR 3" AS REQUIRED BASED ON DUCT CABLE OUTSIDE DIAMETER.</p> <p>CONDUIT CAPS - TERMINAL POINTS OF ALL CONDUIT AND DUCT CABLE SHALL BE SEALED PROMPTLY AFTER INSTALLATION BY MEANS OF A MOLDED PLASTIC OR RUBBER CAPPING DEVICE THAT ONLY PERMITS WIRE PASS THROUGH.</p>	 <p style="text-align: center;">TYPICAL FOUNDATION LOCATION</p>
Date: 5/1/2014	STANDARD DRAWING
	POLE FOUNDATION
SHEET 2 OF 2	DRAWING NO. SL-04

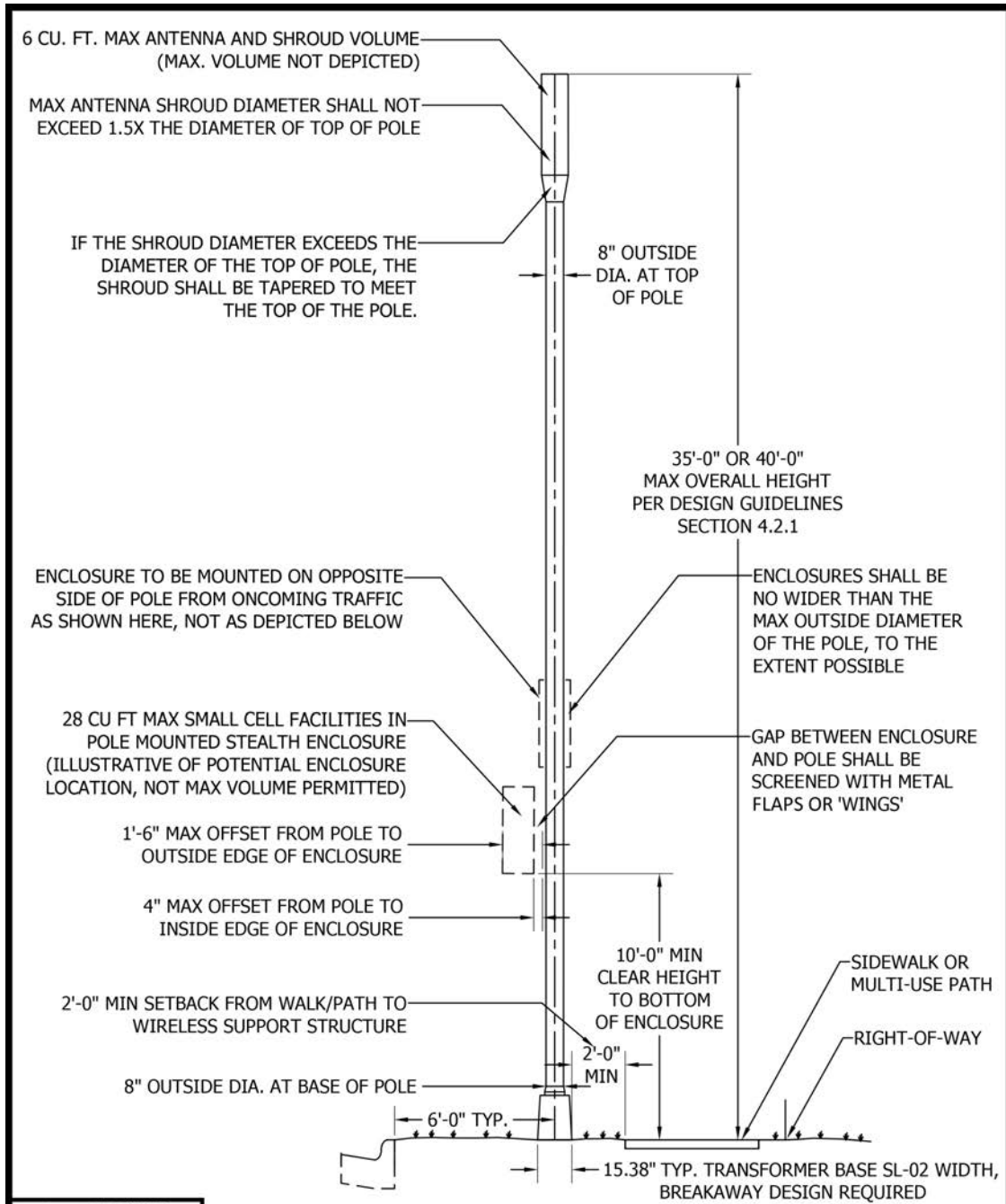
6.7 Collocation with Pole Mounted Small Cell Facilities Enclosure--SC-1A/SL-0



Date: 5/15/2018

	STANDARD DRAWING	
	<i>COLLOCATION OF SMALL CELL FACILITIES ON STANDARD LIGHT POLE SL-03</i>	
	SHEET 1 OF 1	DRAWING NO. SC-1A/SL-03

6.8 New Wireless Support Structure w/ Pole Mounted Facility Enclosure--SC-2A



Date: 5/15/2018

STANDARD DRAWING



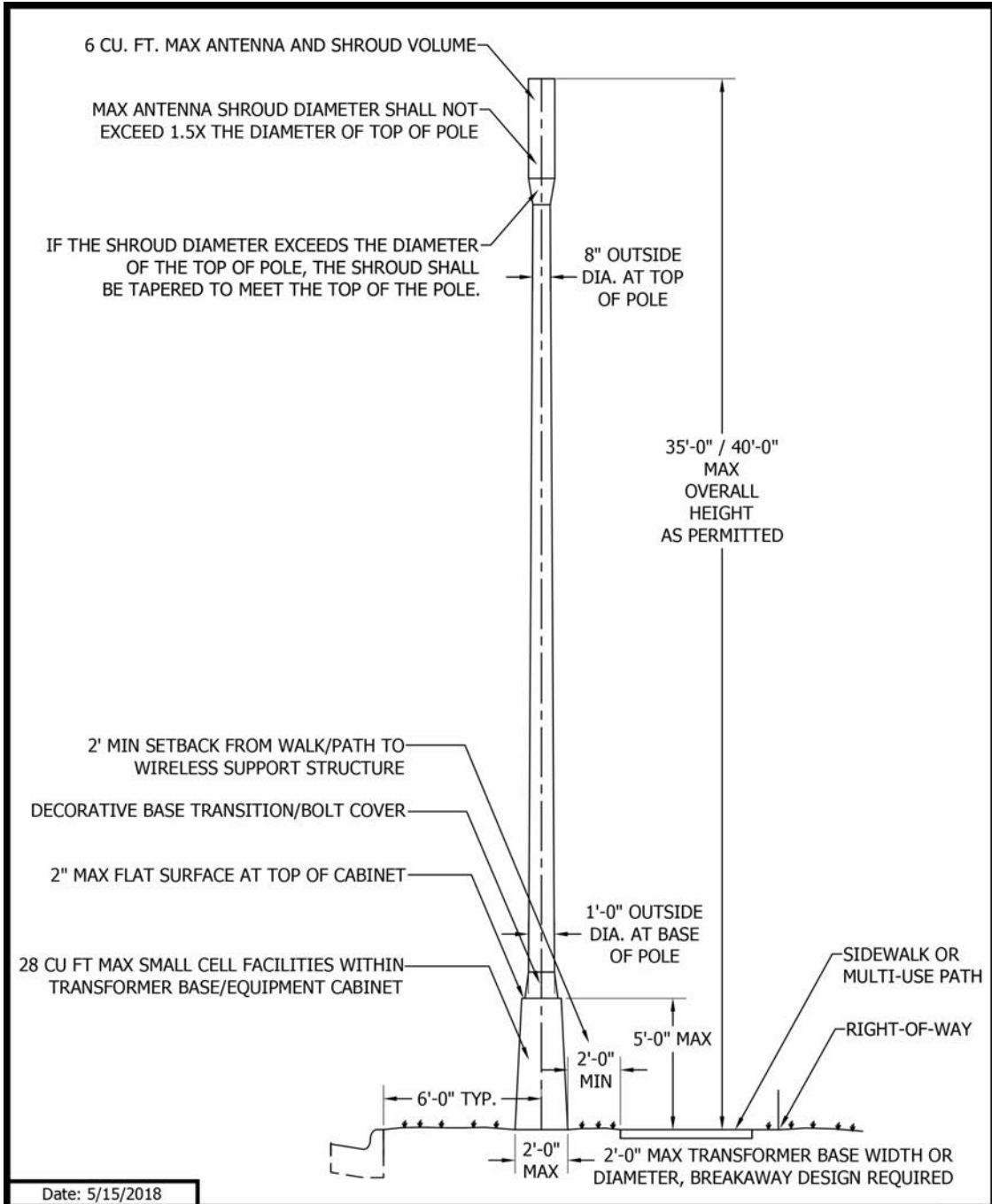
NEW WIRELESS SUPPORT STRUCTURE WITH SMALL CELL FACILITIES WITHIN POLE MOUNTED ENCLOSURE


SHEET 1 OF 1

DRAWING NO. **SC-2A**



6.9 New Wireless Support Structure w/ Facilities in Transformer Base--SC-2C



	STANDARD DRAWING	
	<i>NEW WIRELESS SUPPORT STRUCTURE WITH SMALL CELL FACILITIES WITHIN TRANSFORMER BASE</i>	
	SHEET 1 OF 1	DRAWING NO. SC-2C



Design Guidelines for Small Cell Facilities and Wireless Support Structures within the Right-of-Way

June 15, 2018

Department of Public Works--Engineering
Department of Development--Planning



EVERYTHING GROWS HERE.

DEVELOPED BY:



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1. BACKGROUND AND PURPOSE



1. BACKGROUND AND PURPOSE

1.1 Background

Ohio House Bill 478 ("HB 478") modifies a previously adopted law regarding wireless service and the placement of small cell facilities in city rights-of-way. It was passed on April 11, 2018, signed by the governor on May 2, 2018 and is effective as of August 1, 2018. The law is intended to promote the rapid deployment of small cell facility infrastructure within the right-of-way by ensuring that municipalities grant or deny consent to install, operate, modify, or replace wireless facilities in a timely manner. The law recognizes the authority of a municipality to manage access to, and occupancy of, rights-of-ways to the extent necessary with regard to matters of local concern. This includes the protection of the integrity of historic areas and ensures that the use of the rights-of-way in such districts is technologically and aesthetically appropriate.

Chapter 99 of the City of Dublin Codified Ordinances has been modified to account for the provisions of HB 478 for the regulation of small cell facilities and wireless support structures within city rights-of-way.

1.2 Purpose

In addition to the requirements of Chapter 99, these Design Guidelines for Small Cell Facilities and Wireless Support Structures ("Design Guidelines") provide guidance to wireless communications carriers on the aesthetic requirements and specifications that all small cell facilities and wireless support structures must meet prior to installation in the City of Dublin right-of-way. Although small cell facilities installed outside the right-of-way are not bound by these guidelines, they Design Guidelines may inform such installations.

The objective of the Design Guidelines is to strike a balance between preserving the character of the City of Dublin through careful design, siting, landscaping and camouflaging techniques to blend these facilities into their environment, while enhancing the ability of wireless communications carriers to deploy small cell facilities and wireless support structures in the city quickly, effectively, and efficiently so that residents, businesses, and visitors benefit from ubiquitous and robust wireless service availability.

The Design Guidelines are intended to allow sufficient flexibility to respond to and integrate future advances in small cell facilities technology as well as innovations that improve the ability for these facilities to integrate into the surrounding environment. Due to the rapid advances in wireless technology, the Design Guidelines will be evaluated periodically to ensure that the provisions respond and adapt accordingly to these evolving technologies.

These guidelines apply to requests to locate small cell facilities and wireless support structures in the right-of-way and are administered by the City of Dublin Right-of-Way Permit Group within the Department of Public Works/Engineering with support from Planning within the Department of Development. The group can be contacted at 614-410-4740.



2. TYPES OF APPLICATION REQUESTS



2. TYPES OF APPLICATION REQUESTS

Requests to locate small cell facilities and wireless support structures within the right-of-way generally involve either the collocation of small cell facilities in association with existing wireless support structures, or the installation of a new wireless support structure and associated small cell facilities. In addition to these main categories, applications are required for the removal of small cell facilities and wireless support structures as well as eligible facilities requests for modification of an existing tower or base station within the right-of-way.

2.1 Collocation on Existing Wireless Support Structure and Associated Small Cell Facilities (Type 1 Request)

A request for collocation on an existing wireless support structure (Type 1 Request) involves installing or ‘collocating’ small cell facilities on an existing structure, such as a light pole, or utility pole. Type 1 Requests are administered through the Small Cell Right-of-Way Permit review process following approval of a General Right-of-Way Permit. The General Right-of-Way Permit must be renewed every 5 years.

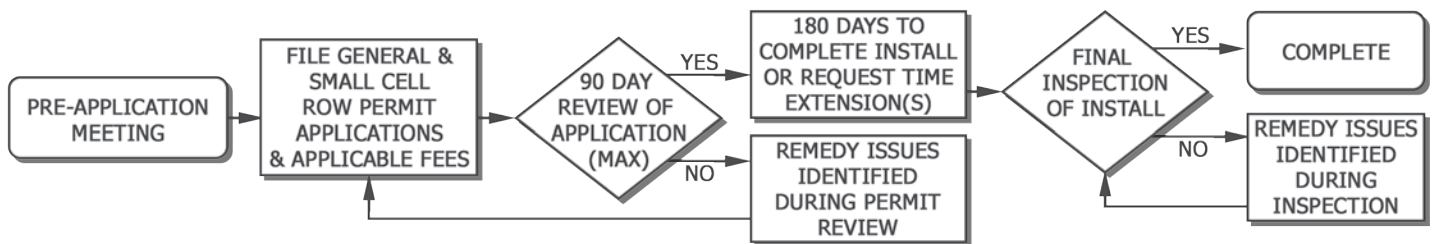


Figure 2A--Type 1 Application Request Process

2.2 New Wireless Support Structure and Associated Small Cell Facilities (Type 2 Request)

A request for a new wireless support structure and small cell facility (Type 2 Request) involves an operator installing a wireless support structure and associated small cell facility or facilities. Type 2 Requests are administered through the Small Cell Right-of-Way Permit review process following approval of a General Right-of-Way Permit. The General Right-of-Way Permit must be renewed every 5 years..

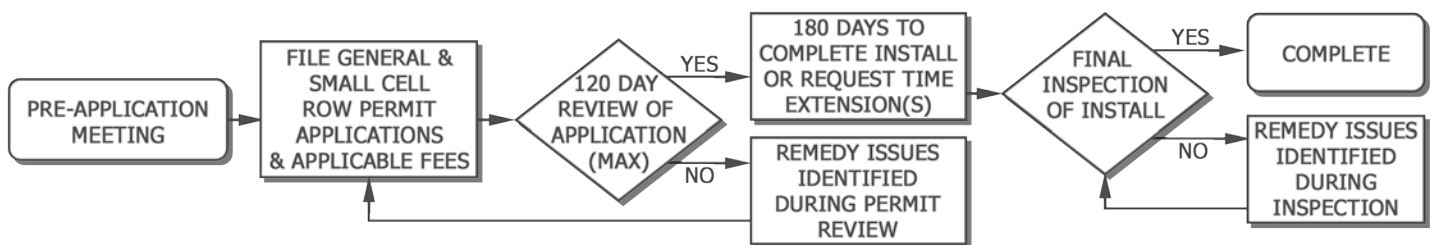


Figure 2B--Type 2 Application Request Process

2.3 Removal of Wireless Support Structure and/or Associated Small Cell Facilities (Type 3 Request)

Requests to permanently remove privately owned wireless support structures from the right-of-way are administered through the Small Cell Right of Way Permit review process.



2. TYPES OF APPLICATION REQUESTS

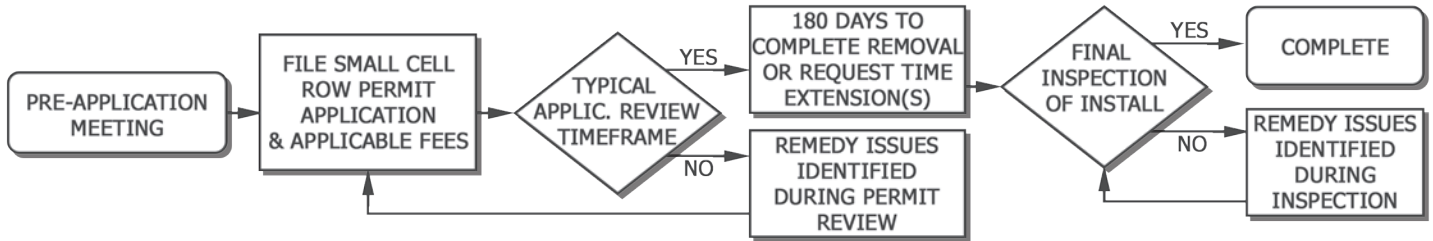


Figure 2C--Type 3 Application Request Process

2.4 Eligible Facilities Request (Type 4 Request)

An eligible facilities request (Type 4 Request) is a request to modify an existing tower or base station within the right-of-way constructed for the sole or primary purpose of supporting antennas and other associated facilities for wireless communications services, such that the modification does not substantially change the physical dimensions of such tower or base station when collocating new equipment, removing transmission equipment, or replacing transmission equipment.

Under federal law, a substantial modification to a tower or base station within the right-of-way is defined, in part, as follows:

- (1) It increases the height of the structure by more than 10% or more than ten feet, whichever is greater;
 - (a) Changes in height should be measured from the original support structure in cases where deployments are or will be separated horizontally, such as on buildings' rooftops; in other circumstances, changes in height should be measured from the dimensions of the wireless support structure, inclusive of originally approved appurtenances and any modifications that were approved prior to the passage of the Spectrum Act.
- (2) It involves adding an appurtenance to the body of the wireless support structure that would protrude from the edge of the structure by more than six feet;
- (3) It involves installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets; or, for wireless support structures in the public rights-of-way, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than 10% larger in height or overall volume than any other ground cabinets associated with the structure; and/or
- (4) It entails any excavation or deployment outside the current site.

Type 4 Requests are administered through the Small Cell Right-of-Way Permit review process. If during the staff review, it is determined that substantial modifications are proposed, the applicant will be informed that a Type 1 Application Request will be required.

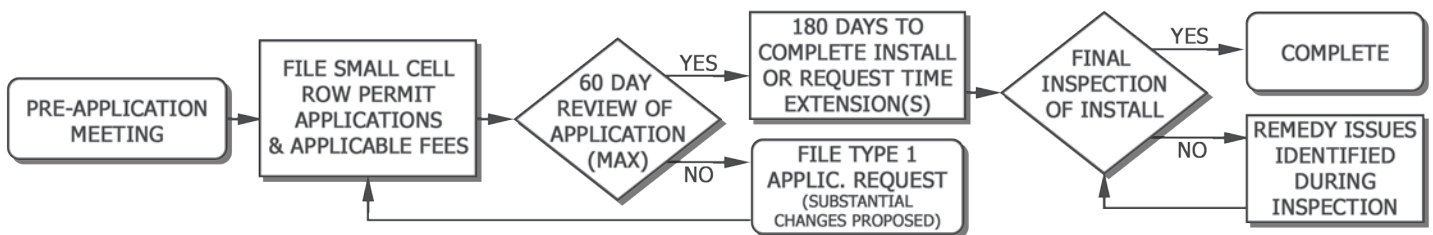


Figure 2D--Eligible Facilities Request Process

3. REQUIRED APPLICATION MATERIALS



3. REQUIRED APPLICATION MATERIALS

Unless otherwise required by state or federal law, or unless mutually agreed upon as part of the Pre-Application Meeting, all applicants shall submit to the city the following materials and information associated with each application type in order for the application to be considered complete:

3.1 Required Application Materials for Installation of Small Cell Facilities and/or Wireless Support Structures.

3.1.1 Completed Permit Application Form(s) and Fee(s) as applicable

The permit application forms are available through the Department of Public Works, with all associated application fees noted on the application forms.

3.1.2 Site Plan

At a scale not smaller than one inch equals twenty feet with dimensions, clearly indicating the following:

- Proposed location within the right-of-way including nearest cross street intersection(s);
- For parcels within 150 feet of the proposed small cell facility location, parcel identification number and property ownership as currently listed by Franklin, Delaware and Union County auditors, as applicable;
- All existing conditions within 150 feet of the proposed location, including but not limited to, buildings, utilities within the right-of-way and associated above grade structures, location of electric service and fiber optic cable, all other underground and overhead utilities, wireless support structures (both with and without small cell facilities attached), ground-mounted small cell facilities, sidewalks/shared-use paths, back of adjacent curb/edge of pavement, driveways, street trees, and protected trees as defined in §153.141 of the City of Dublin Code of Ordinances;
- Dimensions shall be provided from the proposed wireless support structure and/or small cell facility to existing wireless support structures and equipment, utility structures, back of curb/edges of pavement including driveways, sidewalks and shared-use paths;
- Dimensions shall be provided between proposed wireless support structures and any associated ground-mounted equipment.

3.1.3 Inventory of Existing Small Cell Facilities and Wireless Support Structures

Provide an inventory of any existing and approved wireless support structures with collocated small cell facilities that are either within the jurisdiction or within one-half mile of the border of the city, with latitudinal and longitudinal location coordinates.

The city may share this information with other applicants seeking to locate small cell facilities and/or wireless support structures within the City of Dublin. However, the city is not, by sharing this information, in any way representing or warranting that the sites are available or suitable. The inventory of each small cell facility and wireless support structure shall include:

- A map showing each location, by address and/or parcel identification number, including straight-line distances between each facility;
- Facility height and design; and
- Facility owner(s)/operator(s)

3.1.4 Wireless Support Structure Details

Plans, elevations, profiles and sections at a scale not smaller than one inch equals five feet, depicting existing



wireless support structures for collocation requests and proposed new wireless support structures, as applicable and clearly indicating the following:

- Height from established grade at the base of the wireless support structure to the highest point of the wireless support structure and the height to the highest point of proposed antenna or antenna enclosures, as applicable (overall height).
- Height from established grade at the base of the wireless support structure to the lowest point of all proposed small cell equipment to be installed on the wireless support structure.
- Outside diameter of upper poles, and for tapered poles the outside diameter as measured at the widest and narrowest points of the pole.

3.1.5 Small Cell Facilities Details

Plans, elevations, profiles and sections at a scale not smaller than one inch equals five feet, depicting existing small cell facilities and/or proposed small cell facilities clearly indicating the following, as applicable:

- Height, width, depth and volume in cubic feet of all proposed antenna and exposed elements and/or proposed antenna shrouds.
- Height, width, depth and volume of all other wireless equipment associated with the facility, with all 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 clearly labeled.
- The distance from the outer edge of small cell facility cabinet parallel to the outer edge of the wireless support structure for small cell facilities to be installed on a wireless support structure.
- Method of installation/connection to pole or ground, as applicable.
- Color specifications for all small cell facilities and wireless support structures and associated exposed equipment, cabinets and concealment elements.
- Electrical plans and wiring diagrams
- Footing and foundation drawings and structural analysis sealed and signed by a professional engineer in the state of Ohio.

3.1.6 Manufacturer's Specification Sheets.

- Provide the most recent specification sheets from manufacturers for all small cell facility equipment and wireless support structures proposed, including but not limited to poles, equipment cabinets, shrouds, or concealment devices, antennas, meters, radios, switches, telecommunications demarcation boxes, and grounding equipment.

3.1.7 Landscape Plans.

- Where ground-mounted small cell equipment cabinets are proposed, provide landscape plans at a scale not smaller than one inch equals ten feet, including planting details and a plant schedule indicating proposed plant species, quantities, spacing, and height/size at installation.

3.2 Required Application Materials for Wireless Support Structure and/or Small Cell Facilities Removal.

For applications involving the removal of small cell facilities and/or wireless support structures, the following materials and information shall be provided:



3. REQUIRED APPLICATION MATERIALS

3.2.1 Small Cell Right-of-Way Permit application and fee as specified

The permit application forms are available through the Department of Public Works, with all associated application fees noted on the application forms.

3.2.2 Site Plan

At a scale not smaller than one inch equals twenty feet with dimensions, clearly indicating the following:

- Existing small cell facilities and/or wireless support structure locations within the right-of-way including nearest cross street intersection(s);
- For adjacent parcel(s) perpendicular to the proposed small cell facility/wireless support structure location, property ownership, including current ownership;
- All existing conditions within 50 feet of the existing small cell facilities locations to be removed, including but not limited to, buildings, utilities within the right-of-way and associated above grade structures, location of electric service and fiber optic cable, all other underground and overhead utilities, small cell structures and facilities, sidewalks/shared-use paths, back of adjacent curb/edge of pavement, driveways, street trees and plant material.

3.2.3 Remediation Plans

Site and/or structure remediation details at a scale not smaller than one inch equals five feet in accordance with the requirements of Section 4.4, and clearly indicating the following:

- Proposed remediation plan for modifications made to city-owned wireless support structures and other areas of the right-of-way associated with collocation of small cell wireless facilities and ground-mounted equipment after the removal of these facilities.
- Proposed restoration of electric and fiber optic connections after removal of small cell facilities, as applicable.



4. GENERAL DESIGN GUIDELINES



4. GENERAL DESIGN GUIDELINES

4.1 Collocations on Existing Wireless Support Structures (Type 1 Requests)

4.1.1 Collocations Encouraged

- Except as otherwise provided in the Context Specific Guidelines herein, the collocation of wireless facilities on existing support structures (that are engineered to accommodate such facilities) is strongly encouraged.

4.1.2 Maximum Permitted Height

- Antennas, small cell facilities and any associated concealment materials shall not increase the overall height of the existing wireless support structure by more than five (5) feet.

4.1.3 Use of Existing Privately Owned Utility Poles

There are a number of existing private utility poles located within the right-of-way throughout the city. These support structures are not owned by the City of Dublin, but may be eligible for collocations of small cell facilities pending permission of the legal owner of the structures.

- Documentation Required
 - Documentation of owner's permission to collocate small cell facilities must be included with the Type 1 Request in the form of a letter or other correspondence/documentation.
- Antenna Mounting Requirements
 - Where possible, antenna shall be installed consistent with the requirements of 4.3.1. Where existing conditions preclude this mounting location, antennas shall be fully enclosed within a shroud attached as near as possible to the top of the wooden pole and on the side of the pole opposite the direction of vehicular traffic along the same side of the right-of-way.
- Wiring, Cables and Conduit Requirements
 - All wiring and cables shall be firmly secured to the support structure and enclosed within a separate rigid external conduit attached directly to the pole or offset not more than four (4) inches by mounting brackets. Conduit color shall be gray to match the required small cell facilities and enclosure color.
 - Spools and/or coils of excess fiber optic or cables or any other wires shall not be stored on the pole except completely within the approved enclosures or cabinets.
- Color
 - All small cell facilities, cabinets, shrouds, conduit, and mounting hardware proposed in conjunction with installation on an existing wooden pole shall be gray Federal Standard #26492 powder coated finish or as otherwise approved by the City Engineer.

4.1.4 Structural Capacity of Existing Support Structures

- The city will not authorize any attachments to city-owned infrastructure that negatively impacts the structural integrity of the associated infrastructure.
- The city may condition approval of the collocation on replacement or modification of the wireless support structure at the operator's cost if the city determines that replacement or modification is necessary for compliance with city standards.



- A replacement or modification of the wireless support structure shall conform to all applicable design guidelines and city specifications for the type of structure being replaced.
- The city may retain ownership of a replacement wireless support structure.

4.1.5 Right to Reserve Space

- The city may reserve space for future public safety or transportation uses in the right-of-way or on a wireless support structure in a documented and approved plan in place at the time an application is filed.
 - A reservation of space shall not preclude placement of a pole or collocation of a small cell facility.
 - If replacement of the wireless support structure is necessary to accommodate the collocation of the small cell facility and the future use, the operator shall pay for and install the replacement of the wireless support structure, which must accommodate the future use.

4.2 New Wireless Support Structures and Small Cell Facilities (Type 2 Requests)

4.2.1 Maximum Permitted Height

- The maximum permitted height for private wireless support structures, antennas and associated small cell facilities shall not exceed forty (40) feet in height above established grade as measured at the base of the wireless support structure, except as provided below.
- The maximum permitted height for private wireless support structures, antennas and associated small cell facilities shall not exceed thirty-five (35) feet in height in areas meeting the following criteria:
 - The area is within 300 feet of the proposed site for a new wireless support structure in the same or connecting rights-of-way, and there are no existing wireless support structures or utility poles greater than 30 feet in height above ground level;
 - The maximum permitted height for building construction in the underlying zoning district is thirty-five (35) feet in height above ground level or less.

4.2.2 Minimum Spacing Requirements

- Minimum spacing between proposed and existing privately owned wireless support structures
 - The minimum horizontal distance between a new wireless support structure and associated small cell facilities and any other existing, or permitted but unconstructed, wireless support structures and small cell facilities on the same side of the right-of-way at the time a complete application is filed with the city, irrespective of the owners/operators, shall be not less than 300 linear feet, as measured parallel to the right-of-way, unless an alternate spacing requirement is provided in the Context Specific Design Guidelines.
- Spacing between proposed wireless support structures and existing publicly owned wireless support structures
 - New wireless support structures shall be located midway between the immediately adjacent existing publicly-owned wireless support structures on either side of the proposed wireless support structure to the maximum extent possible.
- Multiple requests in violation of spacing requirements
 - If multiple requests are received to install two or more wireless support structures that would violate the applicable spacing requirements, or to collocate two or more small cell facilities on the same wireless support structure, notwithstanding division (I) of section 4939.0313 of the Revised Code, the city may resolve conflicting requests through whatever reasonable and nondiscriminatory manner it deems appropriate.



4. GENERAL DESIGN GUIDELINES

- City proposed alternative location for wireless support structures.
The city may propose an alternate location to any proposed location of a new wireless support structure, subject to the following:
 - The alternate location is within one hundred (100) feet of the proposed location; or
 - The alternate location is within a distance that is equivalent to the width of the right-of-way in which the new wireless support structure is proposed, whichever is greater; and
 - The operator shall use the alternate location if it has the right to do so on reasonable terms and conditions and the alternate location does not impose technical limits or additional costs.
- Waiver to city directed alternate wireless support structure location or undergrounding requirements
Small cell operators may seek a waiver of the undergrounding or alternative location requirements for the placement of a new wireless support structure if the operator is unable to achieve its service objective using a small cell facility under the following circumstances:
 - From a location in the right-of-way where the prohibition does not apply;
 - In a utility easement within the right-of-way 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.

4.2.3 Required Setbacks

- Preferred Alignment
 - The centerline of new support structures shall be installed in alignment with existing poles where present, or with street trees along the same side of the right-of-way, unless otherwise required in the Context Specific Design Guidelines.
- Minimum Distance from Travelway
 - Equipment shall be placed so as not to impede or impair public safety or the legal use of the right-of-way by the traveling public, and in no case shall any portion of new support structure be located less than two feet from the travel way, edge line, face of curb, sidewalk, bike lane, or shared-use path.
- Minimum Distance from Existing Objects in the Right-of-Way
 - New wireless support structures shall be located a minimum of twelve (12) feet from any permanent object or existing lawful encroachment in the right-of-way to allow for access.
- Minimum Distance from Intersections and Driveway Aprons
 - Wireless support structures shall be located a minimum of twelve (12) feet from driveway aprons.
 - Wireless support structures shall be located outside of intersection sight distance triangles, whenever possible. Please refer to Intersection Sight Distance Policy:

<http://dublinohiousa.gov/engineering/engineering-permits-drawings-and-policies>

- Minimum Distance from Street Trees and Protected Trees in the Vicinity.
 - Wireless support structures shall be sited outside of the critical root zone of existing street trees and any existing protected trees having a six (6) inch or greater diameter at breast height (DBH) located in the immediate vicinity, including protected trees on private property as defined in the City of Dublin Tree Preservation Code:

<http://forestry.ohiodnr.gov/portals/forestry/pdfs/urban/dublinpreserv.pdf>



- Encroachments Prohibited
 - No portion of a wireless support structure or small cell facility cabinet or enclosure may encroach at grade or within the airspace beyond the right-of-way or over the travelway.

4.2.4 Wireless Support Structure Design Specifications

- Pole Specifications
 - All new wireless support structures shall be constructed of solid hot-dipped galvanized steel, be round in shape with a smooth pole shaft.
 - Wireless support structures incorporating pole mounted small cell facilities shall be tapered in diameter from the base to the top, with a maximum diameter of 12 inches at the base and a maximum diameter of 8 inches at the top.
 - Wireless support structures incorporating small cell facilities in an equipment cabinet within a transformer base may utilize poles tapered in diameter or poles having a consistent outside diameter.
 - All poles shall be scaled to 0.5 to 0.75 times the maximum width of the cabinet, with a ten (10) inch minimum outer pole diameter at the widest portion of tapered poles.
- Transformer Base
 - All new wireless support structures shall include a one-piece cast aluminum alloy transformer base in a breakaway design, consistent with specifications of City of Dublin Standard Drawing SL-02 or as designed by a professional engineer licensed and registered in the State of Ohio, and subject to the City Engineer's review and approval.
- Foundation
 - All new wireless support structures must be supported with a reinforced concrete foundation designed, stamped, sealed and signed by a professional engineer licensed and registered in the State of Ohio, and subject to the City Engineer's review and approval.
 - Anchor bolts must be constructed from high strength steel per City of Dublin Standard Drawing SL-04 and in a length and diameter determined, stamped, sealed and signed by a professional engineer licensed and registered in the State of Ohio, and subject to the City Engineer's review and approval.
 - All anchor bolts must be concealed from public view, with an appropriate pole boot or cover powder coated to match the pole color.
- Color
 - To ensure consistency among right-of-way infrastructure, color for all wireless support structures and bases shall be as prescribed in the Context Specific Design Guidelines, or as otherwise approved by the City Engineer.

4.3 Small Cell Facilities (All Request Types)

4.3.1 Antennas

- Maximum Size
 - Each antenna shall be located entirely within a shroud enclosure of not more than six (6) cubic feet in volume.
 - The diameter of the antenna or antenna enclosure should not exceed the diameter of the top of the wireless support structure pole, and to the maximum extent practical, should appear as a seamless vertical extension of the pole.
 - In no case shall the maximum diameter of the shroud be wider than one and one half times the diameter of the top of the pole.



4. GENERAL DESIGN GUIDELINES

- Where maximum shroud diameter exceeds diameter of the top of the pole, the shroud shall be tapered to meet the top of the pole.
- **Mounting Location**
 - Unless otherwise required by the Context Specific Design Guidelines, all antenna shall be mounted to the top of the wireless support structure pole, aligned with the centerline of the structure.
- **Design Specifications**
 - Shape. Antennas shall be generally cylindrical in shape.
 - Enclosure. Antenna shall be completely housed within a cylindrical shroud that is capable of accepting paint to match the wireless support structure.
 - Color. To ensure consistency among right-of-way infrastructure, color for all antennas and shrouds shall match the color of the wireless support structure as prescribed in the Context Specific Design Guidelines, or as otherwise approved by the City Engineer.

4.3.2 Associated Small Cell Facilities and Equipment

- **Maximum Size**
 - Exclusive of the antenna, all wireless equipment associated with the small cell facility shall not cumulatively exceed twenty-eight (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.
- **Encroachments Prohibited**
 - No portion of a wireless support structure or small cell facility cabinet or enclosure may encroach at grade or within the airspace beyond the right-of-way or over the travelway.
- **Screening and Installation Location.** All small cell facilities, associated equipment and cabling shall be completely concealed from view within an enclosure, and may be installed in the following locations:
 - Within an equipment enclosure mounted to the wireless support structure;
 - Within an equipment cabinet integrated within the transformer base of a new wireless support structure; or
 - Within a ground-mounted cabinet physically independent from the wireless support structure.
- **Color**
 - To ensure consistency among right-of-way infrastructure, color for all small cell facilities and enclosures/ cabinets attached to wireless support structures, integrated within the transformer base, or ground-mounted cabinets shall match the color of the associated wireless support structure as prescribed in the Context Specific Design Guidelines, or as otherwise approved by the City Engineer.

4.3.3 Small Cell Facilities Mounted to Wireless Support Structures

- **Minimum Mounting Height**
 - All small cell facilities mounted to wireless support structures shall provide a minimum clearance of 10 feet above established grade.
- **Maximum Permitted Protrusion of Enclosure from Wireless Support Structure Pole**
 - Small cell equipment enclosures shall not protrude more than eighteen (18) inches beyond the face of the pole to the outermost portion of the enclosure.
 - Small cell equipment enclosures should be installed as flush to the wireless support structure pole as practical. In no case shall an enclosure be installed more than four inches from the wireless support structure



pole.

- Required Enclosure Mounting Location
 - All small cell facilities and equipment enclosures shall be mounted on the side of the pole opposite the direction of vehicular traffic of the adjacent roadway. Enclosures shall extend perpendicular from the pole and parallel to the right-of-way.
- Required Arrangement of Multiple Small Cell Facility Cabinets
 - All pole-mounted equipment must be installed as flush to the pole as possible. Where multiple enclosures are proposed on a wireless support structure pole, the enclosures shall be grouped as closely together as possible on the same side of the pole.
- Design Specifications
 - Size. Small cell equipment enclosures should be the smallest size practicable to house the necessary small cell facilities and equipment.
 - Small cell equipment enclosures shall be cylindrical or rectangular in shape, and should generally be no wider than the maximum outside diameter of the pole to which it is attached, to the maximum extent possible.
 - Attachment. The shroud enclosure shall be securely strapped to the wireless support structure pole using stainless steel banding straps. Through-bolting or use of lag bolts on publicly owned wireless support structures is prohibited. New wireless support structures may utilize mounting brackets in accordance with the maximum horizontal offset requirements. Care should be taken to integrate the mounting hardware into the enclosure design.
 - Concealment of Gap. Metal flaps or “wings” shall extend from the enclosure to the pole to conceal any gap between the enclosures and the pole. The design of the flaps shall be integrated with the design of the enclosure.
 - Owner Identification. A four (4) inch by six (6) inch (maximum) plate with the carrier’s name, location, identifying information, and emergency telephone number shall be permanently fixed to the enclosure on the side of the cabinet opposite the direction of vehicular traffic of the adjacent roadway.

4.3.4 Small Cell Facilities Cabinets Integrated within a Wireless Support Structure Transformer Base

- Transformer Base/Cabinet Size
 - Equipment cabinets integrated into the support structure transformer base shall have a maximum width or diameter of twenty-four (24) inches, and a maximum height of five (5) feet.
 - The top of the cabinet shall have no flat horizontal area greater than two (2) inches as measured outward from the pole to the edge of the cabinet to prevent objects from being placed on top the equipment cabinet.
- Siting Requirements
 - Small cell facilities cabinets within transformer bases and associated wireless support structures are prohibited to be located within sight visibility triangles. Please refer to Intersection Sight Distance Policy:

<http://dublinohiousa.gov/engineering/engineering-permits-drawings-and-policies>

- Design Specifications
 - Shape. Transformer Base/Cabinet shape shall either be tapered with a trapezoidal or truncated cone section or cylindrical in shape.
 - Transition to Pole. A decorative transition or base cover shall be installed over the equipment cabinet upper bolts to match the equipment cabinet size and color.
 - Owner Identification. A four (4) inch by six (6) inch (maximum) plate with the carrier’s name, location, identifying information, and emergency telephone number shall be permanently fixed to the cabinet on the side



4. GENERAL DESIGN GUIDELINES

of the cabinet opposite the direction of vehicular traffic of the adjacent roadway.

- Attachment to Foundation. Transformer base/cabinet shall feature a breakaway design in the event of collisions.

4.3.5 Ground-Mounted Small Cell Facilities

■ Siting Requirements

- So as not to impede or impair public safety or the legal use of the right-of-way by the traveling public, in no case shall a ground-mounted small cell facility cabinet be located closer than two feet from the travel-way, edge line, face of curb, sidewalk, bike lane, or shared-use path as measured to the nearest part of the wireless support structure.
- Ground-mounted small cell facility cabinets shall be located a minimum of twelve (12) feet from any permanent object or existing lawful encroachment in the right-of-way to allow for access.
- Ground-mounted small cell facility cabinets shall not be sited in conflict with required intersection sight distance triangles. Please refer to Intersection Sight Distance Policy:

<http://dublinohiousa.gov/engineering/engineering-permits-drawings-and-policies>

- Ground-mounted small cell facility cabinet locations shall be located a minimum of twelve (12) feet from driveway aprons as measured parallel to the right-of-way.

■ Design Specifications

- Attachment to Foundation/Slab: Cabinets must be secured to a concrete foundation or slab with a breakaway design in the event of collisions.
- Owner Identification. A four (4) inch by six (6) inch (maximum) plate with the Carrier's name, location, identifying information, and emergency telephone number shall be permanently fixed to the cabinet.

■ Additional Landscape Screening

- Screening of small cell facility cabinets with evergreen plant material is required, consistent with the landscape character of the surrounding area.
- All landscaping proposed within the right-of-way shall be reviewed for appropriateness of the proposed planting plan and plant specifications by the City of Dublin Landscape Architect, Department of Parks and Recreation.

4.3.6 Power Supply and Fiber Optic Connections (All Request Types)

■ Independent Power and Communication Sources Required

- Small cell facilities located on city-owned wireless support structures may not use the same power or communication source providing power and/or communication for the existing facility original to the purposes of the support structure. The independent power source must be contained within a separate conduit inside the support structure. The applicant shall coordinate, establish, maintain and pay for all power and communication connections with private utilities.

■ Utility Undergrounding Required

- Where an Underground Utility District is present, all service lines from the power source to the small cell facilities and wireless support structure shall be located underground.

■ Wiring, Cables and Conduit Requirements

- All wiring and cables must be housed within the steel support structure or pole and extended vertically within a flexible conduit.



- Spools and/or coils of excess fiber optic or coaxial cables or any other wires shall not be stored on the pole except completely within the approved enclosures or cabinets.
- Exposed wires, cables, connections and external conduit are prohibited, except as specified in the Context Specific Design Guidelines based on the characteristics of the wireless support structure.
- Underground conduit shall meet the specifications of City of Dublin Standard Drawing SL-05.

4.3.7 Other Small Cell Facilities Prohibitions

- Lighting
 - Lighting associated with small cell facilities is prohibited. Any internal lights associated with electronic equipment shall be shielded from public view.
- Signage
 - Signage is prohibited on all small cell facilities and wireless support structures, including stickers, logos, text, and other non-essential graphics and information other than the owner identification unless required by FCC.
- Prohibited Wireless Facilities
 - Microwave, macro towers, and other wireless backhaul facilities are not permitted within the right-of-way.

4.4 Removal of Small Cell Facilities and Wireless Support Structures (Type 3 Requests)

4.4.1 Remediation of City-Owned Support Structures

- All City-owned support structures must be returned to an equal or better state, upon removal of small cell facilities. All mounting hardware and equipment must be removed from the site. All holes left in the pole must be neatly sealed from any moisture intrusion and painted to match the pole.

4.4.2 Remediation of Sites

- Applicant shall restore all areas of the right-of-way impacted by the small cell facilities and/or wireless support structure installation and/or removal to equal or better condition.

5. CONTEXT SPECIFIC DESIGN GUIDELINES



5. CONTEXT SPECIFIC DESIGN GUIDELINES

The design and character of the right-of-way in the City of Dublin is defined by a variety of interconnected factors—the most prevalent are the functional classification of the roadway within the right-of-way and the predominant land uses along the right-of-way. These variables influence the amount of space available in the right-of-way outside of the travel lanes for elements such as sidewalks and shared-use paths, street trees, street lights and utility infrastructure, as well as the aesthetic qualities of these elements.

The unique environmental aesthetics of each area, as well as the characteristics of the right-of-way itself must be taken into consideration in the deployment of small cell facilities and wireless support structures. These facilities must blend seamlessly into the surrounding context to the maximum extent possible.

For the purposes of outlining context specific small cell facilities and wireless support structures design guidelines, five districts have been defined based on the unique existing and desired character of the rights-of-way within these areas. These districts are:

- Historic Dublin
- The Bridge Street District
- Residential Districts
- The West Innovation District
- Other Business Neighborhoods and Commercial Districts.

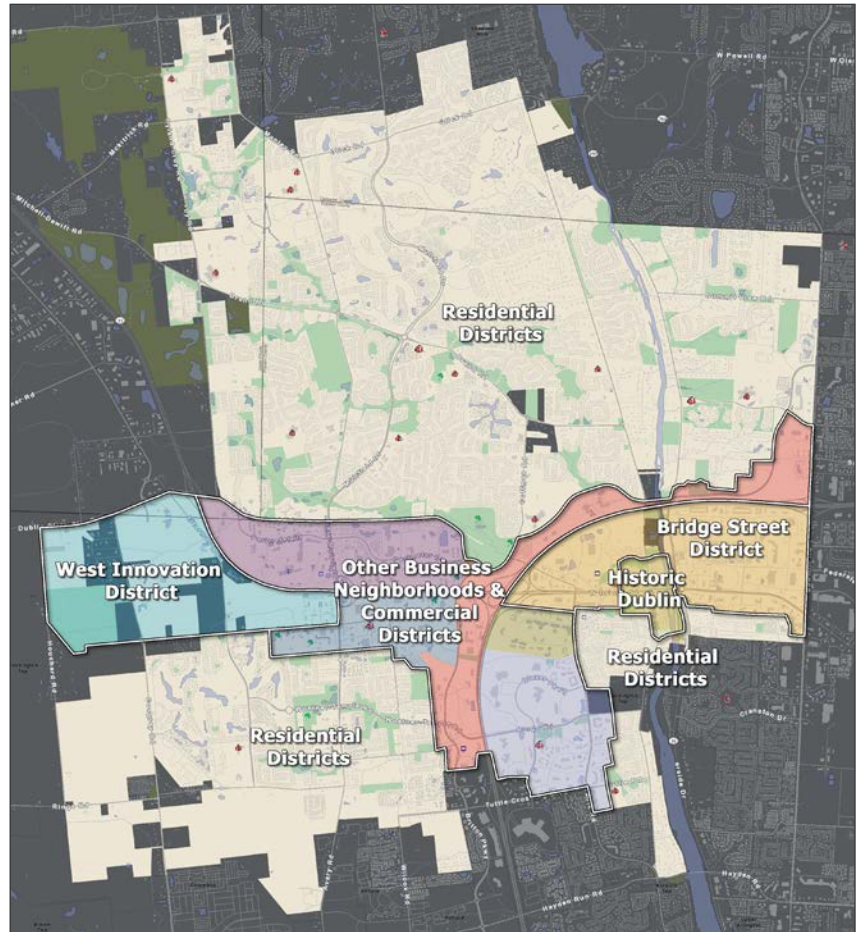


Figure 5A--Context Specific Design Guidelines Districts



The boundaries of each district are depicted in Figure 5A—Context Specific Design Guidelines Districts. In addition to the General Design Guidelines described in Chapter 4, the following Context Specific Guidelines must be met. Where conflicts exist, the Context Specific Guideline shall prevail over the General Design Guideline.



5. CONTEXT SPECIFIC DESIGN GUIDELINES

5.1 Historic Dublin

5.1.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Side Streets, Lanes and Alleys - Preferred
 - Historic Dublin is characterized by a pattern of small blocks accessed by a number of narrow streets and lanes that function as service streets or alleys at the rear of the lots and where a variety of existing above grade infrastructure is present.
 - Preferred rights-of-way for siting of small cell facilities and wireless support structures include Blacksmith Lane, Mill Lane, Darby Street, Wing Hill, Spring Hill, Eberly Hill, Pinneyhill Lane, and John Wright Lane, except for segments of these streets which extend to the east of South and North Blacksmith Lane. The preferred streets are highlighted in yellow in Figure 5.1A.

- Bridge Street, High Street, Riverview Street and Franklin Street Corridors – Discouraged
 - These corridors are highlighted in orange in Figure 5.1A, and are character defining elements of Historic Dublin. These streets are the ‘front doors’ to businesses and residences and possess a strong pedestrian environment that should be free of visual clutter along the streetscapes to the maximum extent possible.
 - Existing pedestrian-scale decorative street lights and poles fixtures cannot accommodate new installations and are not suitable for replacement.

- Bridge Street and High Street Intersection - Strongly Discouraged
 - The intersection of Bridge Street and High Street is the historic core of the City of Dublin. As such, the aesthetic character of these streets through Historic Dublin has been carefully designed and regulated to maintain the high quality image of Historic Dublin.
 - The area available within the right-of-way for infrastructure is very limited, and where street lights and other vertical infrastructure is present, it is designed at an appropriate scale and aesthetic quality fitting to this unique area.
 - The Bridge and High Street inter-



Figure 5.1A--Historic Dublin Boundary and Small Cell Facilities Siting Preferences Map



section boundary is defined as the right-of-way of these streets bound by Franklin Street to the west, North and South Riverview to the east, North Street to the North and Waterford Drive to the south, as highlighted in red in Figure 5.1A.

5.1.2 Installation Type Preferences

- Type 1 Requests Preferred
 - The most preferred installation type in Historic Dublin is a collocation of an antenna and associated small cell facilities on an existing privately owned utility pole within the service street rights-of-way listed in Section 5.1.1. An example of this type of wireless support structure and an illustration of a Type 1 collocation to this existing support structure is depicted in Figure 5.1B.
 - The second most preferred installation type in Historic Dublin is a collocation of an antenna on an existing privately owned utility pole with small cell facilities enclosed in a ground-mounted cabinet within the service street rights-of-way listed in Section 5.1.1.
 - Existing decorative light poles in Historic Dublin as depicted in Figure 5.1C are ineligible for Type 1 collocations of small cell facilities due to the design aesthetics, height and structural capacity of these fixtures. Any modifications to the existing decorative street lights and poles will be inconsistent with the design of the existing fixtures.
- Type 2 Requests Strongly Discouraged
 - The least preferred installation type in the Historic District is a new wireless support structure with small cell facilities within the highly visible 'front door' rights-of-way of Historic Dublin, including but not limited to High Street, Bridge Street, North and South Riverview Street, and Franklin Street.
 - Type 2 Requests for replacement of existing pedestrian-scaled decorative light poles, bases, or luminaires to accommodate small cell facilities will not be permitted as any replacement will be inconsistent with the design of the existing fixtures.



Figure 5.1B--Illustrative Type 1 Collocation Request on Existing Private Wooden Utility Pole (at right)



Figure 5.1C--Decorative Pedestrian-Scale Street Lights in Historic Dublin

5.1.3 Type 1 Installation Details and Specifications

- Use of Existing Decorative Pedestrian-Scale Street Lights
 - Not permitted.
- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3

5. CONTEXT SPECIFIC DESIGN GUIDELINES

5.1.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited in alignment with other existing poles on the same side of the right-of-way, and aligned as close as practicable with adjacent side property lines, or with shared wall locations in adjacent multi-tenant structures.
 - In no case shall a wireless support structure be sited directly in front of an adjacent building entrance or storefront.
 - Special care should be taken to avoid siting wireless support structures in conflict with business signs.
- Wireless Support Structure Height
 - New wireless support structures and antennas should be no taller than functionally necessary, and coordinate with the height of existing poles in the same right-of-way to the maximum extent practicable. In no case shall the overall height exceed the height requirements of Section 4.2.1.
- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the decorative light poles in the Historic District—black powder coated finish (Federal Standard #27038), or as otherwise approved by the City Engineer.

5.1.5 Ground-mounted Small Cell Equipment Details and Specifications

- Maximum Permitted Height of Ground-mounted Equipment Cabinets
 - The maximum permitted height for ground-mounted equipment cabinets shall not exceed three (3) feet as measured from established grade at the foundation/pad.
- Siting of Ground-mounted Small Cell Equipment Cabinets
 - Ground-mounted equipment cabinets are not permitted within the tree lawn/pedestrian furnishing zone of any right-of-way in Historic Dublin.
- Color
 - Color for all ground-mounted equipment cabinets shall be gray Federal Standard #26492 powder coated finish or as otherwise approved by the City Engineer.
- Additional Landscape Screening
 - Landscape screening of ground mounted equipment cabinets shall be as required under Section 4.3.5.



5.2 Bridge Street District (excluding Historic Dublin, please refer to Section 5.1)



Figure 5.2A--Bridge Street District Street Network Map

5.2.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Corridor Connector and District Connector Streets - Preferred
 - In the mixed-use context of the Bridge Street District, Corridor Connector and District Connector rights-of-way are typically of a greater width than Neighborhood Streets, and have greater potential to accommodate small cell facilities and wireless support structures. Corridor Connector and District Connector Streets are designated in purple and orange respectively in Figure 5.2A
 - The rights-of-way of these street types generally include existing street lights and other infrastructure.

5.2.2 Installation Type Preferences - New BSD Streetscapes

- Type 2 Requests Preferred
 - The most preferred installation type in newly constructed streetscapes within the Bridge Street District are new, free-standing wireless support structures with small cell facilities enclosed in an equipment cabinet integrated within the transformer base or within a pole mounted enclosure. An illustration of a new wireless support structure with equipment integrated within the base is depicted in Figure 5.2B.
- Type 1 Requests Discouraged
 - In newly constructed BSD streetscapes where space is available at the edge of the right-of-way adjacent to open space, the incorporation of new wireless support structures and small cell facilities and/or collocations to existing wireless support structures may be possible, but shall not be permitted within parks, greenways or other designated open space types approved under §153.064 of the Bridge Street District Code. Figure 5.2C illustrates this type of installation.

5. CONTEXT SPECIFIC DESIGN GUIDELINES

- The least preferred installation type in the Bridge Street District are collocations on existing post top street lights, due to the design aesthetics and structural capacity of these fixtures. Any modifications to the existing decorative street lights and poles will be inconsistent with the design of the existing fixtures.
- Ground-mounted Small Cell Facilities Cabinets
 - Ground-mounted small cell facilities cabinets are strongly discouraged from placement in newly created streetscapes within the Bridge Street District. These streetscapes are highly pedestrian oriented with predominantly hardscaped rights-of-way, and no ground mounted utility enclosures within the pedestrian zone or planting/site furnishing zone of the streetscape. The addition of small cell facilities cabinets within these landscape beds will be detrimental to the desired streetscape aesthetic of the Bridge Street District and are strongly discouraged.



Figure 5.2B--Illustration of Type 2 New Wireless Support Structure Request with Small Cell Equipment within Transformer Base (at right)

5.2.3 Installation Type Preferences - Existing BSD Streetscapes

- Type 1 Requests Preferred
 - The most preferred installation type in existing/unimproved streets and streetscapes that are not associated with a new Bridge Street street type are antenna collocations on existing street light poles or privately owned utility poles and small cell facilities within cabinets attached to the pole or in ground-mounted cabinets within the right-of-way.
- Type 2 Requests Discouraged
 - Based on the fairly wide availability of collocation options to city light poles and private utility poles in the existing streetscapes of the Bridge Street District, the least preferred installation type are new wireless support structures with small cell facilities.



Figure 5.2C--Illustration of Type 1 Collocation with Ground-mounted Small Cell Equipment along Open Space within the Right-of-Way.

5.2.4 Type 1 Installation Details and Specifications

- Post Top Street Lights - New Streetscapes
 - Existing city-owned street lights with luminaires centered on the top of the pole are not engineered to support wireless facilities. Request for collocations to these street lights will not be permitted. An example of this street light is depicted in Figure 5.2D.
- Bracket Arm and Standard Street Lights - New and Existing Streetscapes
 - Refer to General Design Guidelines.
 - Color of all small cell facilities shrouds, enclosures and cabinets shall match color of existing bracket arm street light poles--powder coated black to meet Federal Standard #595-B and conform to Color #27038 or as otherwise approved by the City Engineer.
- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3.



Figure 5.2D--Decorative Post Top Street Light in the Bridge Street District

5.2.5 Type 2 Installations Details and Specifications - New and Existing Streetscapes

- Siting of New Wireless Support Structures
 - Wireless support structures should only be sited within the planting/site furnishing zone of the right-of-way, and in no case shall these elements be sited in conflict with minimum clear pedestrian realm width requirements.
 - New wireless support structures should be sited as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way, or with shared wall locations in adjacent multi-tenant structures.
 - In no case shall a wireless support structure be sited directly in front of an adjacent building entrance or storefront.
 - Special care should be taken to avoid siting wireless support structures in conflict with building signs.
- Color
 - Color for new wireless support structures, antenna shrouds, pole and ground mounted equipment, and equipment cabinets within a transformer base shall be powder coated black to meet Federal Standard #595-B and conform to Color #27038 or as otherwise approved by the City Engineer.

5.2.6 Ground-mounted Small Cell Equipment Details and Specifications - New and Existing Streetscapes

- Maximum Permitted Height of Ground-mounted Equipment Cabinets
 - The maximum permitted height for ground-mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad.
- Siting of Ground-mounted Small Cell Equipment Cabinets
 - Ground mounted equipment cabinets may only be sited within areas of the right-of-way where required setbacks from the travelway and sidewalks and multi-use paths can be met as outlined in Section 4.3.5.
 - Ground-mounted equipment cabinets will not be supported within the planting zone/street furnishing zones of new Bridge Street District streetscapes, as described in Section 5.2.1.
 - Ground-mounted equipment cabinets may be supported within new Bridge Street District streetscapes which provide sufficient open space within the right-of-way as described in Section 5.2.2 and illustrated in Figure 5.2C.

5. CONTEXT SPECIFIC DESIGN GUIDELINES

- Color
 - Color for all ground-mounted equipment cabinets shall gray Federal Standard #26492 powder coated finish or as otherwise approved by the City Engineer.
- Additional Landscape Screening
 - Landscape screening of ground-mounted equipment cabinets shall be as required under Section 4.3.5.



5.3 Residential Districts (as outlined in Figure 5A)

5.3.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Arterial and Collector Streets - Preferred
 - Arterial and Collector Streets are the preferred location for small cell facilities and wireless support structures, except in locations adjacent to residences which front onto Arterial or Collector streets. To the maximum extent possible, proposed small cell facilities and wireless support structures should only be sited in areas of these rights-of-way where residences do not face the right-of-way or are accessed from Arterial or Collector Street rights-of-way.
- Local Streets - Strongly Discouraged
 - Street lights and other potential support structures are typically not present within the rights-of-way of local residential streets. The addition of small cell facilities and wireless support structures in front of residences would be detrimental to the aesthetic character of the neighborhood, particularly in areas where no other similar infrastructure exists within the rights-of-way.

<http://dublinohiousa.gov/developer-tools/thoroughfare-plan>

5.3.2 Installation Type Preferences

- Type 1 Requests Preferred
 - The most preferred installation type in residential districts are collocations of an antenna and associated small cell facilities on existing street light poles or privately owned utility poles within the right-of-way.
 - The second most preferred installation type in residential districts is a collocation of an antenna on existing street light poles or existing privately owned utility pole with small cell facilities enclosed in a ground mounted cabinet within the right-of-way.
- Type 2 Requests Strongly Discouraged
 - The least preferred installation type in residential districts are new wireless support structures with small cell facilities.

5.3.3 Type 1 Installation Details and Specifications

- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3

5.3.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way, or with shared wall locations in adjacent multi-tenant structures such as townhomes or condominiums.

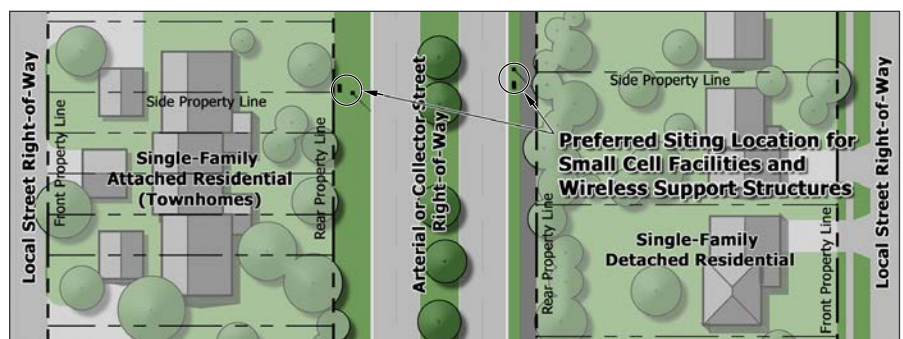


Figure 5.3A--Preferred Siting Location Diagram for Small Cell Facilities in Residential Areas



5. CONTEXT SPECIFIC DESIGN GUIDELINES

- In no case shall a new wireless support structure be sited in conflict with neighborhood identification signs and entry features.
- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35%, or as otherwise approved by the City Engineer.

5.3.5 Ground-mounted Small Cell Equipment Details and Specifications

- Maximum Permitted Height of Ground-mounted Equipment Cabinets
 - The maximum permitted height for ground-mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad to the top of the cabinet.
- Siting of Ground-mounted Small Cell Equipment Cabinets
 - Ground-mounted equipment cabinets may only be sited within tree lawns where required setbacks from the travelway and sidewalks and multi-use paths can be met.
- Color
 - Color for all ground-mounted equipment cabinets shall match the existing or proposed wireless support structures powder coated Federal Standard #595-C, Color 20040, or as otherwise approved by the City Engineer.
- Additional Landscape Screening
 - Landscape screening of ground-mounted equipment cabinets shall be as required under Section 4.3.5.



5.4 West Innovation District

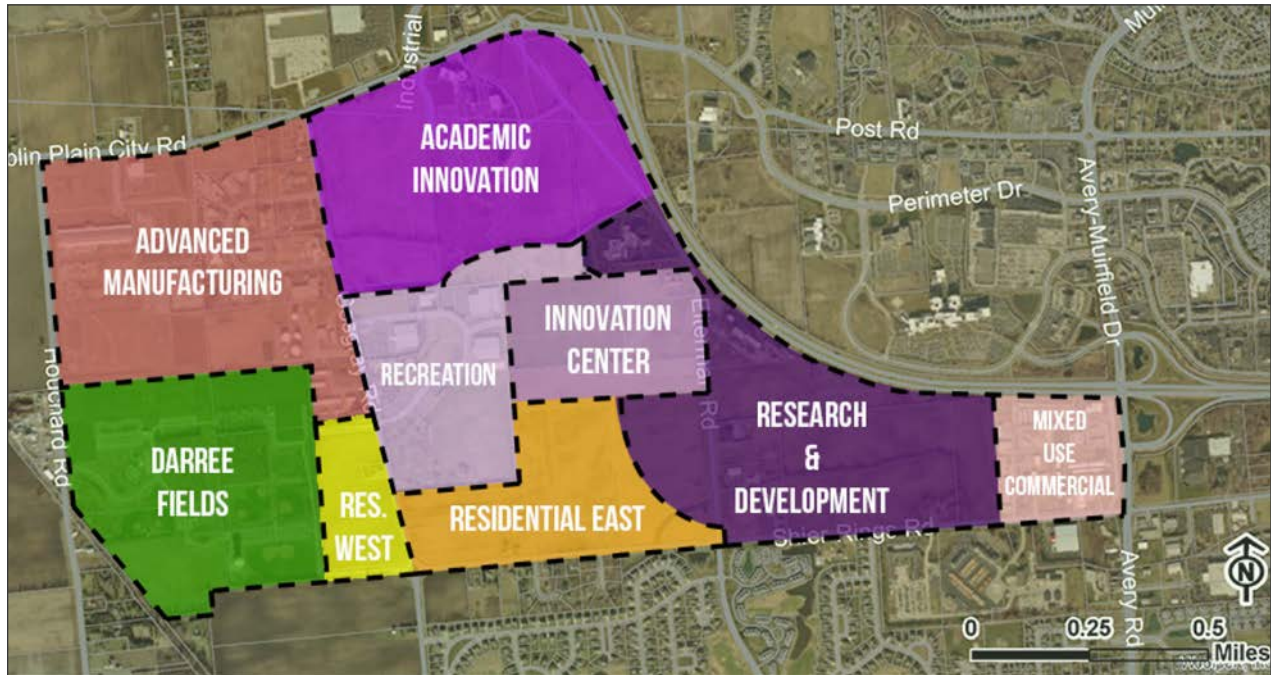


Figure 5.4A--West Innovation District Sub-District Plan

5.4.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Arterial and Collector Streets - Preferred
 - The West Innovation District is predominantly served directly by existing and planned Arterial and Collector Streets. These rights-of-way are the preferred location for small cell facilities and wireless support structures. While there are a limited number of Local Streets in these areas that are also supported for locations for small cell facilities and wireless support structures, Arterial and Collector Street rights-of-way widths generally afford more space in which to site these elements.

<http://dublinohiousa.gov/developer-tools/thoroughfare-plan>

5.4.2 Installation Type Preferences

- Type 2 Requests Preferred
 - The most preferred installation type in the West Innovation District are new, free-standing wireless support structures with small cell facilities enclosed either in an equipment cabinet integrated within the transformer base or within ground-mounted equipment cabinets. As the West Innovation District builds out over time and new thoroughfares are constructed, new wireless support structure locations should be planned and are preferred over retrofitted collocations on existing wireless support structures.
- Location Preference for Ground-mounted Small Cell Facility Cabinets
 - The most preferred siting locations for ground-mounted small cell facilities cabinets in the West Innovation District are the rights-of-way in the following Sub Districts based on the proposed land uses, development patterns, and naturalized streetscape planting design: Advanced Manufacturing, Recreation, Residential West and East.



5. CONTEXT SPECIFIC DESIGN GUIDELINES

- The least preferred siting locations are the rights-of-way within the Academic Innovation, Innovation Center, Research & Development, and Mixed-Use Commercial Sub Districts, as these areas propose more urbanized development patterns with pedestrian-oriented 'main street' streetscapes with less available space for ground-mounted cabinets. Small cell facilities should be enclosed within cabinets integrated with the transformer base to the maximum extent possible in these locations.

5.4.3 Type 1 Installation Details and Specifications

- Use of Standard Street Light Poles
 - Refer to General Design Guidelines.
 - Color of all small cell facilities shrouds, enclosures and cabinets shall match the color of existing standard street light poles--Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35% as approved by the City Engineer.
- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3.

5.4.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited midway between existing wireless support structures on either side, and as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way.
- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35%, or as otherwise approved by the City Engineer.

5.4.5 Ground-mounted Small Cell Equipment Details and Specifications

- Maximum Permitted Height of Ground-mounted Equipment Cabinets
 - The maximum permitted height for ground-mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad to the top of the cabinet.
- Siting of Ground-mounted Small Cell Equipment Cabinets
 - Ground mounted equipment cabinets may only be sited within areas of the right-of-way where required setbacks from the travelway and sidewalks and multi-use paths can be met.
- Color
 - Color for all ground-mounted equipment cabinets shall be gray Federal Standard #26492 powder coated finish or as otherwise approved by the City Engineer.
- Additional Landscape Screening
 - Landscape screening of ground-mounted equipment cabinets shall be as required under Section 4.3.5.



5.5 Other Business Neighborhoods/Commercially Zoned Districts

5.5.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Arterial and Collector Streets - Preferred
 - Business Neighborhoods and commercially zoned districts are predominantly served directly by Arterial and Collector Streets. These rights-of-way are the preferred location for small cell facilities and wireless support structures. While there are a limited number of Local Streets in these areas that are also supported for locations for small cell facilities and wireless support structures, Arterial and Collector Street rights-of-way widths generally afford more space in which to site these elements.

<http://dublinohiousa.gov/developer-tools/thoroughfare-plan>

5.5.2 Installation Type Preferences

- Type 1 Requests Preferred
 - The most preferred installation type in commercially zoned districts are collocations of an antenna and associated small cell facilities on existing street light poles or privately owned utility poles within the right-of-way.
 - The second most preferred installation type in commercially zoned districts is a collocation of an antenna on existing street light poles or existing privately owned utility pole with small cell facilities enclosed in a ground-mounted cabinet within the right-of-way. Figure 5.5A illustrates an example of this type of installation.
- Type 2 Requests Discouraged
 - Based on the fairly wide availability of collocation options to city light poles throughout these areas, the least preferred installation type in commercially zoned districts are new wireless support structures with small cell facilities.

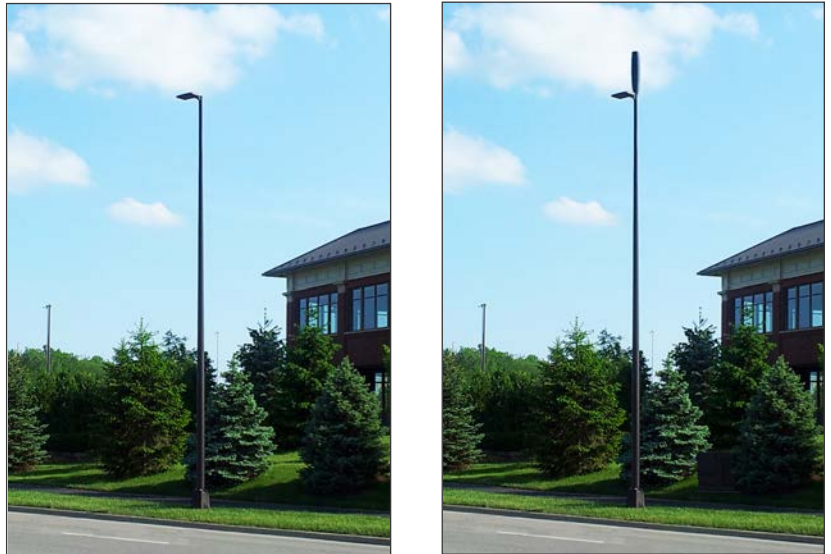


Figure 5.5A--Illustration of Collocation on Existing Standard Light Pole with Ground-mounted Facilities Cabinet Integrated into Existing Landscaping

5.5.3 Type 1 Installation Details and Specifications

- Use of Standard Street Light Poles
 - Refer to General Design Guidelines
- Color
 - Color for antenna shrouds and pole mounted equipment enclosures shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35%, or as otherwise approved by the City Engineer.
- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3

5. CONTEXT SPECIFIC DESIGN GUIDELINES

5.5.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way.
- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35%, or as otherwise approved by the City Engineer.

5.5.5 Ground-mounted Small Cell Equipment Details and Specifications

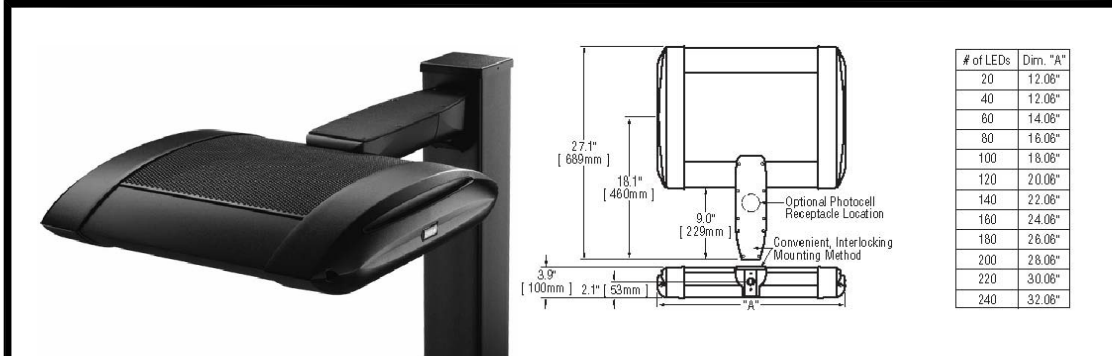
- Maximum Permitted Height of Ground-mounted Equipment Cabinets
 - The maximum permitted height for ground-mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad.
- Siting of Ground-mounted Small Cell Equipment Cabinets
 - Ground-mounted equipment cabinets may only be sited within areas of the right-of-way where required setbacks from the travelway and sidewalks and multi-use paths can be met.
- Color
 - Color for all ground mounted equipment cabinets shall be gray Federal Standard #26492 powder coated finish or as otherwise approved by the City Engineer.
- Additional Landscape Screening
 - Landscape screening of ground-mounted equipment cabinets shall be as required under Section 4.3.5.



6. STANDARD DRAWINGS AND SPECIFICATIONS



6.1 Cree LED Luminaire--SL-01



LIGHTING DESIGN CRITERIA

MIN = 0.4 fc
 AVG/MIN RATIO = 3:1
 MAX/MIN RATIO = 6:1
 CROSSWALK AREA = 1.1-1.3 fc

GENERAL DESCRIPTION - LIGHT EMITTING DIODE (LED), TYPE II, III, IV OR V CUTOFF (AS SPECIFIED ON THE CONSTRUCTION DRAWINGS), ONE-PIECE EXTRUDED ARM. OPERATING VOLTAGE SHALL BE ** VOLTS, SINGLE PHASE.

** VOLTAGE REQUIREMENTS ARE TO BE SPECIFIED ON PLANS.

DISTRIBUTION - IES NEMA TYPE II, III, IV OR V CUTOFF.

APPROVED MANUFACTURER

- Cree LED: ARE-EDG-2M-DA-##-D-**-BZ-525-40K
- Cree LED: ARE-EDG-3M-DA-##-D-**-BZ-525-40K
- Cree LED: ARE-EDG-4M-DA-##-D-**-BZ-525-40K
- Cree LED: ARE-EDG-5M-DA-##-D-**-BZ-525-40K

NUMBER OF LED's TO BE SPECIFIED ON PLANS.

** VOLTAGE REQUIREMENTS ARE TO BE SPECIFIED ON PLANS.

CABLE - PROVIDE #10 XHHW, STRANDED COPPER 600V, 90 DEGREES CELSIUS CONDUCTORS. WIRE TO LUMINAIRE. SECURE TO LUMINAIRE ARM WITH CABLE GRIP PROVIDED WITH LUMINAIRE. PROVIDE ADEQUATE LENGTH TO EXTEND MIN. 2 FEET OUT OF HAND HOLE.

EXECUTION - ALL LUMINAIRES SHALL BE PLUMB AND LEVEL. ALL LAMPS SHALL BE OPERATIONAL PRIOR TO INSPECTION. ALL SURFACES SHALL BE CLEANED OF DIRT, DEBRIS, ETC. FREE OF SCRATCHES, DENTS, ETC.

METHOD OF MEASUREMENT - SEE ODOT SPECIFICATIONS SECTION 625.

BASIS OF PAYMENT - SEE ODOT SPECIFICATIONS SECTION 625.

Date: 5/1/2014



STANDARD DRAWING

LUMINAIRE

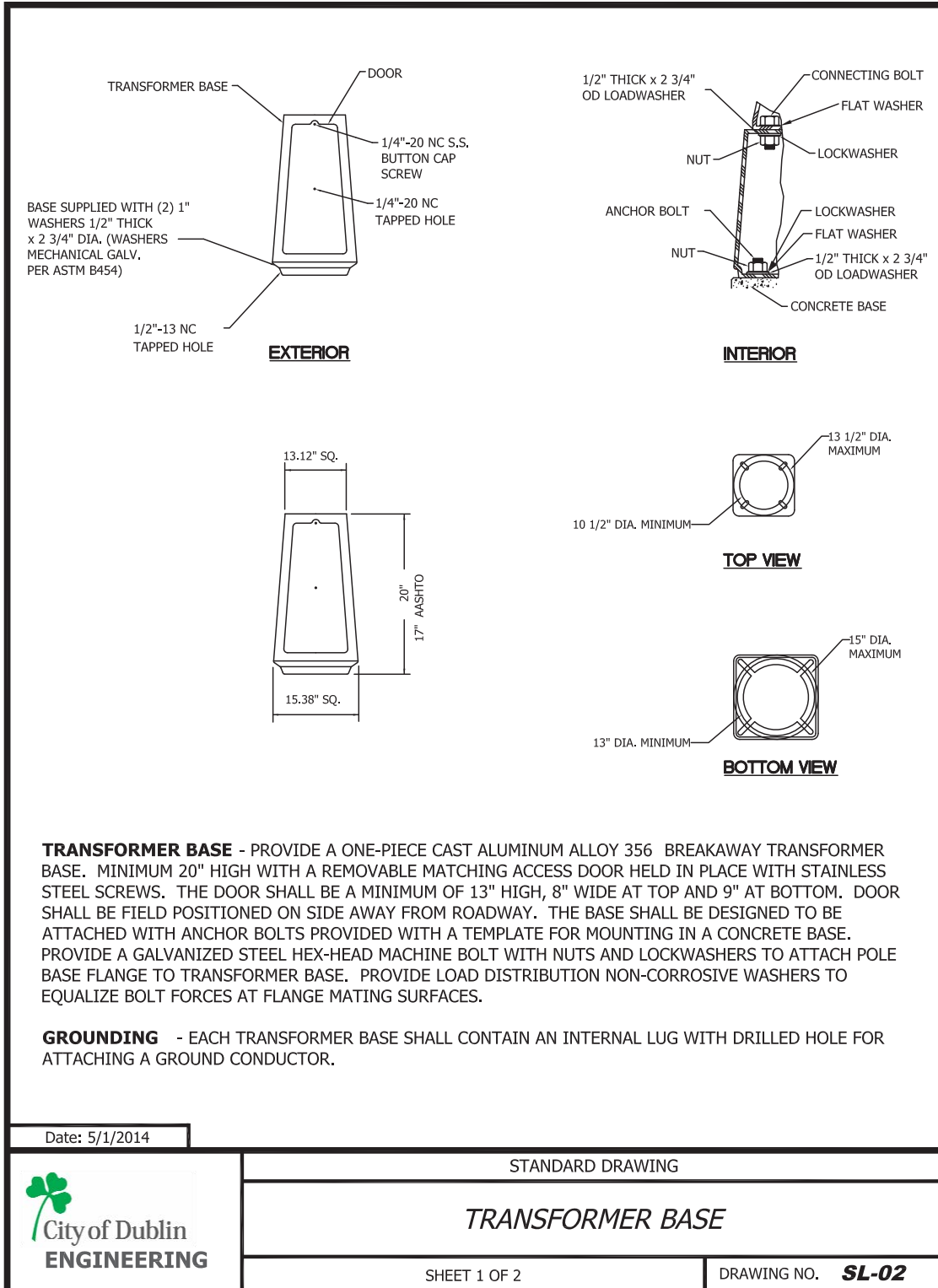
SHEET 1 OF 1

DRAWING NO. **SL-01**

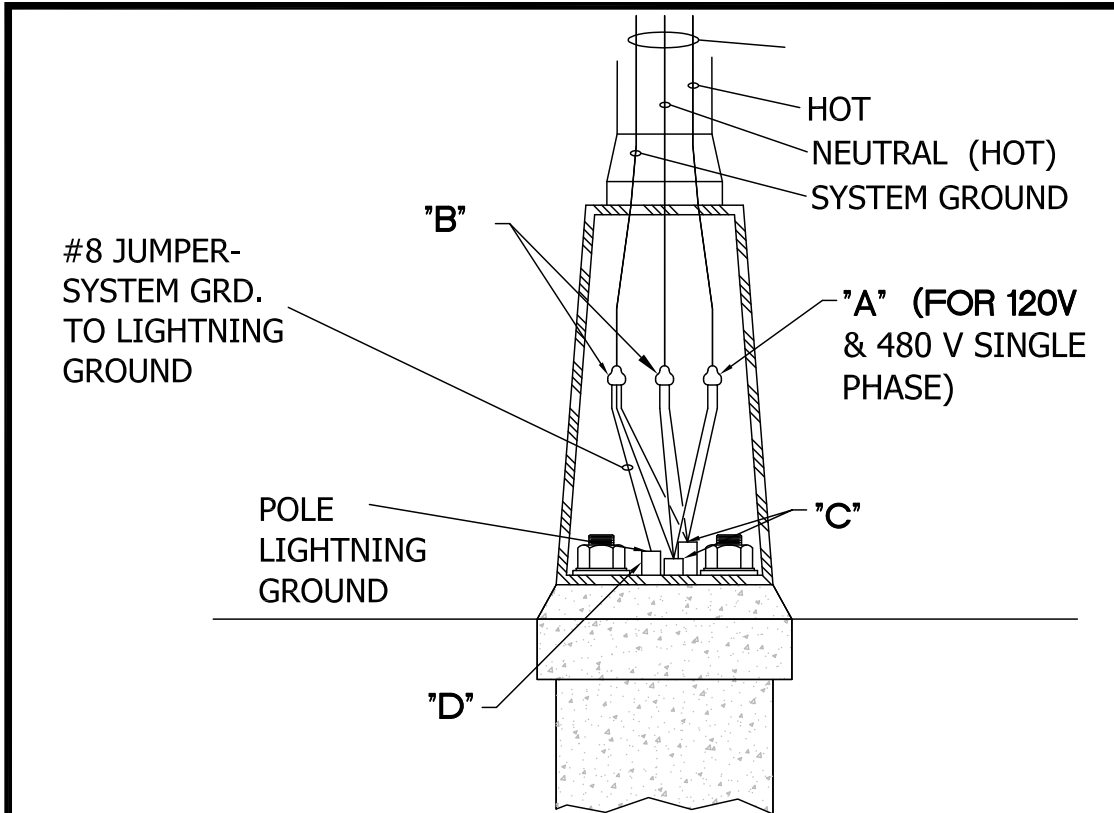


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6.2 Transformer Base--SL-02 (1 of 2)



6.3 Transformer Base--SL-02 (2 of 2)




CONNECTIONS

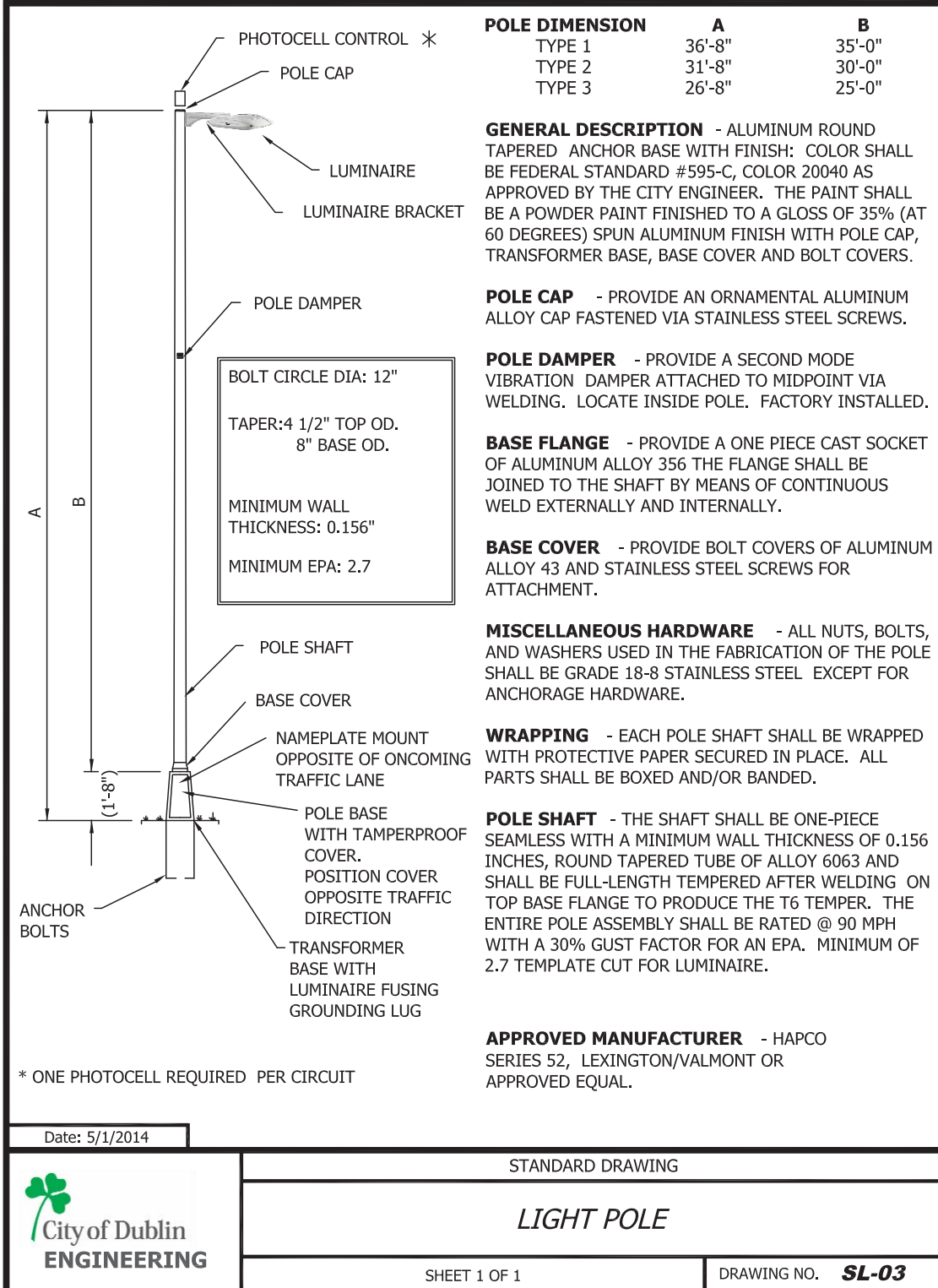
- "A" FUSED - INLINE Y CONNECTOR KIT TYPE II WITH WATERPROOF BOOTS AND BREAKAWAY RECEPTACLE. FUSE AT 5 AMPS, ELASTIMOLD STYLE 82 SERIES OR HOMAC FY SERIES, BUSS KTK-R FUSE. (SINGLE PHASE =1, DOUBLE PHASE = 2 PER POLE)
- "B" UNFUSED-INLINE 7 CONNECTOR KIT TYPE III WITH WATERPROOF BOOTS AND BREAKAWAY RECEPTACLE, ELASTIMOLD 83 SERIES OR HOMAC DY SERIES. (SINGLE PHASE =2, DOUBLE PHASE = 1 PER POLE)
- "C" PROVIDE MOLDED PLASTIC OR RUBBER CAPPING DEVICE THAT ONLY PERMITS WIRE PASS THROUGH WHILE PREVENTING DIRT, WATER, ETC. ENTRY.
- "D" POLE LIGHTNING GROUND LUG UNINSULATED COPPER COMPRESSION TERMINAL UL LISTED FOR 600V. SIZE FOR WIRE SPECIFIED. DRILL, TAP, AND BOLT TO TRANSFORMER BASE BURNDY YA SERIES. BOND SYSTEM GROUND TO LIGHTNING ROD GROUND.

PROVIDE 2' SLACK IN ALL WIRING TO BRING CONNECTORS AND FUSE HOLDERS OUT THRU HANDHOLE.

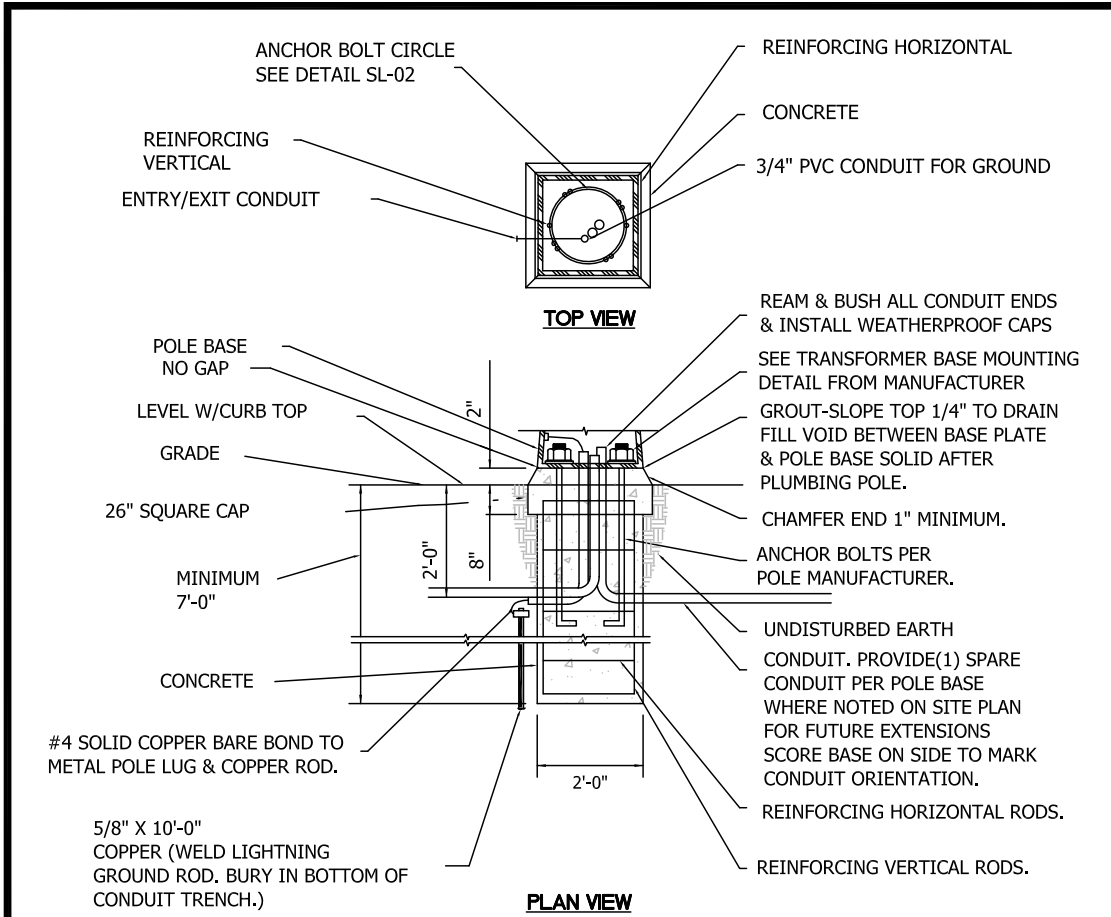
Date: 5/1/2014

	STANDARD DRAWING	
	TRANSFORMER BASE	
	SHEET 2 OF 2	DRAWING NO. SL-02

6.4 Light Pole--SL-03



6.5 Pole Foundation--SL-04 (1 of 2)



CONCRETE - CLASS C, 4000 PSI, 5-7% AIR ENTRAINED. FILL ALL EXPOSED SURFACE VOIDS. CHAMFER ALL EDGES, SLOPE TOP 1/4" WITH GROUT TO DRAIN WATER (FILL VOID BETWEEN BASE PLATE & POLE BASE SOLID, AFTER PLUMBING POLE), ADJUST SO TRANSFORMER BASE HAS NO GAP TO GROUTED SURFACE. HOT OR COLD WEATHER - FOLLOW ODOT CONSTRUCTION & MATERIAL SPECIFICATIONS SECTION 625.

CONCRETE FINISH - REMOVE ALL FORM MARKS, HAND RUB EXPOSED TOP AND SIDES WITH CARBIDE STONE.

REINFORCING - ASTM A-615 GRADE 60, TYPE S DEFORMED BILLET: #6 VERTICALS, (6 TOTAL), #4 HORIZONTALS 12" O.C., CIRCULAR FORMED. WIRE TIE ALL CONNECTIONS, MAINTAIN 3" MINIMUM CONCRETE COVER.

GROUNDING - PROVIDE 5/8" X 10'-0" COPPER WELD ONE-PIECE GROUND ROD. DRIVE A MINIMUM OF 2'-0" BELOW GRADE. RUN #4 AWG SOLID COPPER GROUNDING ELECTRODE CONDUCTOR IN 3/4" PVC CONDUIT FROM ROD TO ENCLOSURE GROUND BAR. "CAD" WELD WIRE CONNECTION AT ROD.

Date: 5/1/2014

STANDARD DRAWING

POLE FOUNDATION

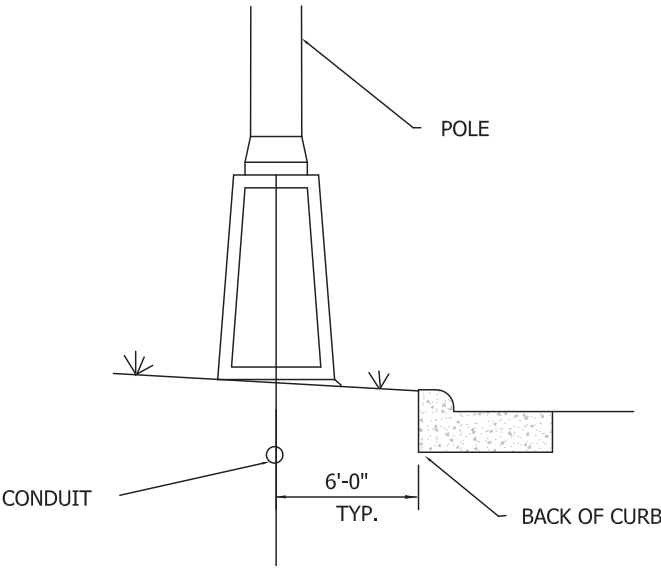

SHEET 1 OF 2

DRAWING NO. **SL-04**

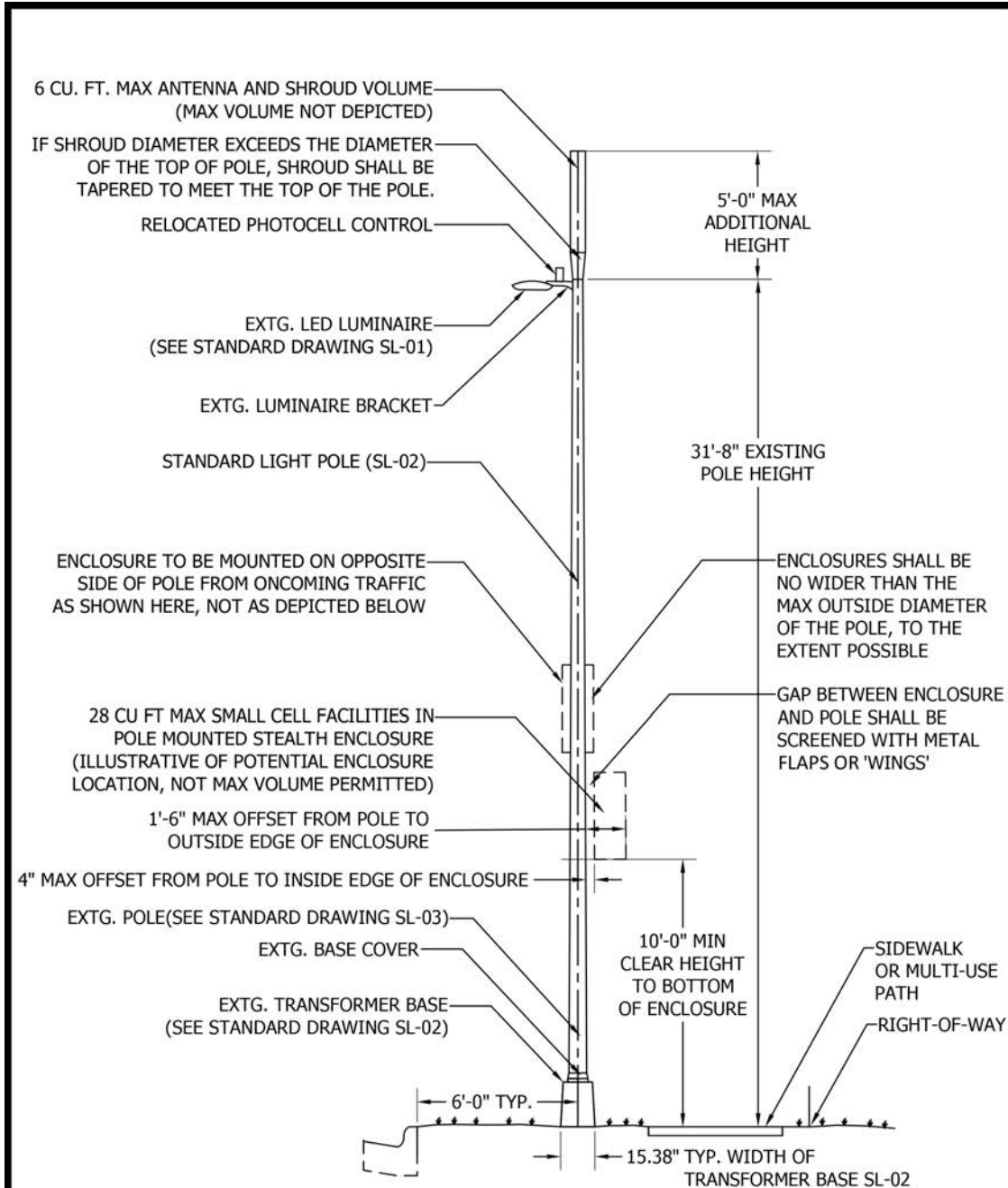


EVERYTHING GROWS HERE.

6.6 Pole Foundation--SL-04 (2 of 2)

<p>LUMINAIRE FUSING - REFER TO TRANSFORMER BASE DETAIL SL-02</p> <p>GROUNDING LEG - REFER TO TRANSFORMER BASE DETAIL SL-02</p> <p>ANCHORAGE - PROVIDE A SET OF FOUR-50,000 PSI-MIN YIELD STEEL STRENGTH ANCHOR BOLTS, THREADED, HOT-DIPPED GALVANIZED AT THE THREADED END FOR AT LEAST 10". THE BOLTS SHALL INCLUDE A 4" MINIMUM RIGHT ANGLE HOOK AT THE UNTHREADED END. PROVIDE GALVANIZED NUT, LOCKWASHERS AND FLATWASHERS FOR EACH BOLT.</p> <p>GROUT - 10,000 PSI, HIGH STRENGTH, NON-SHRINK, NON-METALLIC, COMPLY WITH CRD-C-621, PROVIDE SAND COAT FINISH (PROVIDE SONNOGROUT OR APPROVED EQUAL).</p> <p>WEATHERPROOFING - PROVIDE PENETRATING SURFACE APPLIED, 1 COAT CONCRETE WATERPROOFING AGENT. MATERIAL SHALL BE CLEAR PENETRATING, WATER BASED, ALKYALKOXYLSILANE AND CONTAIN A MINIMUM OF 40% BY WEIGHT SOLIDS AND BE APPLIED PER MANUFACTURER'S DIRECTIONS. COVERAGE SHALL BE 150 SQ. FEET PER GALLON (PROVIDE HYDROZO ENVIROSEAL 40 OR APPROVED EQUAL). APPLY 1 COAT TO ALL CONCRETE EXPOSED SURFACES ABOVE GRADE.</p> <p>FIELD CONDITIONS - CONSULT ENGINEER FOR ABNORMAL SOIL CONDITIONS SILTS AND CLAY WITH WATER LIMITS GREATER THAN 50%, HIGH ORGANIC SOILS, SHALLOW BEDROCK, ETC.</p> <p>CONDUIT - SHALL BE HEAVY WALL 2" OR 3/4" PER GRAPHIC. RIGID NON-METALLIC SCHEDULE 40 PVC FOR USE ABOVE & BELOW GROUND OR CONCRETE ENCASED. RATED FOR 90 DEGREES CELSIUS CONDUCTORS AND USE IN DIRECT SUNLIGHT. MATERIAL SHALL BE UL LISTED AND COMPLY WITH NEMA TC2-1978 AND F.S. #WC-1094A. PROVIDE IN 10 FOOT SECTIONS. SEAL ALL JOINTS WATERTIGHT. GLUE JOINTS WITH PVC CEMENT. BUSH ALL ENDS. ALL BENDS SHALL USE LONG RADIUS PREFORMED ELBOWS. EXTEND CONDUIT TO MINIMUM 2'-0" BELOW GRADE. LOCATION TO BE COORDINATED WITH LANDSCAPING AND UTILITIES.</p> <p>IF UNIT TYPE DUCT CABLE IS UTILIZED IN TRENCHES IN LIEU OF PVC CONDUIT, AT POLE FOUNDATIONS RETAIN THE PVC CONDUIT SPECIFIED ABOVE IT SHALL FUNCTION AS A SLEEVE FOR THE DUCT CABLE. OVERSIZE PVC CONDUIT EITHER 2 1/2" OR 3" AS REQUIRED BASED ON DUCT CABLE OUTSIDE DIAMETER.</p> <p>CONDUIT CAPS - TERMINAL POINTS OF ALL CONDUIT AND DUCT CABLE SHALL BE SEALED PROMPTLY AFTER INSTALLATION BY MEANS OF A MOLDED PLASTIC OR RUBBER CAPPING DEVICE THAT ONLY PERMITS WIRE PASS THROUGH.</p>	 <p style="text-align: center;">TYPICAL FOUNDATION LOCATION</p>
Date: 5/1/2014	STANDARD DRAWING
	POLE FOUNDATION
SHEET 2 OF 2	DRAWING NO. SL-04

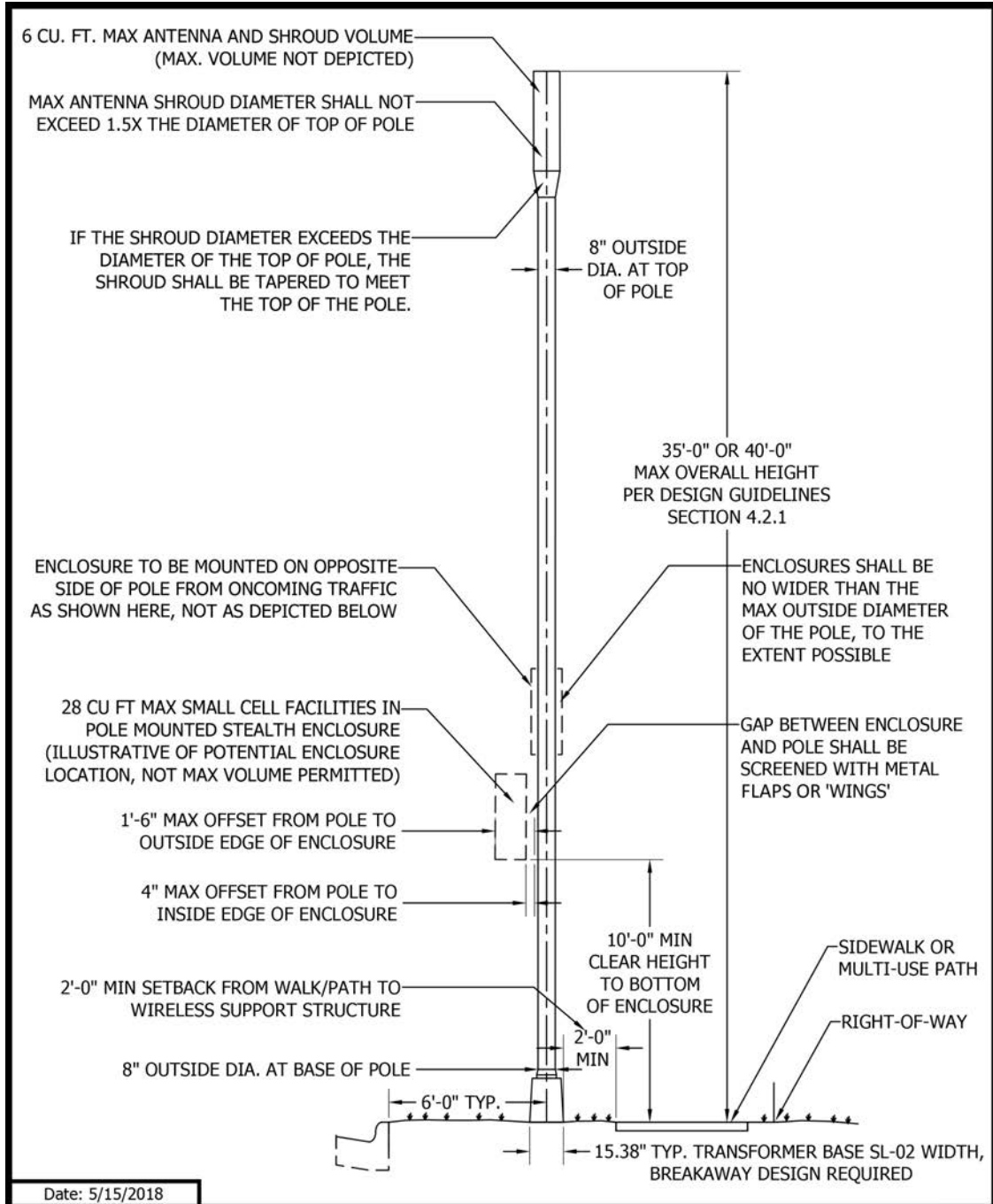
6.7 Collocation with Pole Mounted Small Cell Facilities Enclosure--SC-1A/SL-0




Date: 5/15/2018	
STANDARD DRAWING	
<i>COLLOCATION OF SMALL CELL FACILITIES ON STANDARD LIGHT POLE SL-03</i>	
SHEET 1 OF 1	DRAWING NO. SC-1A/SL-03

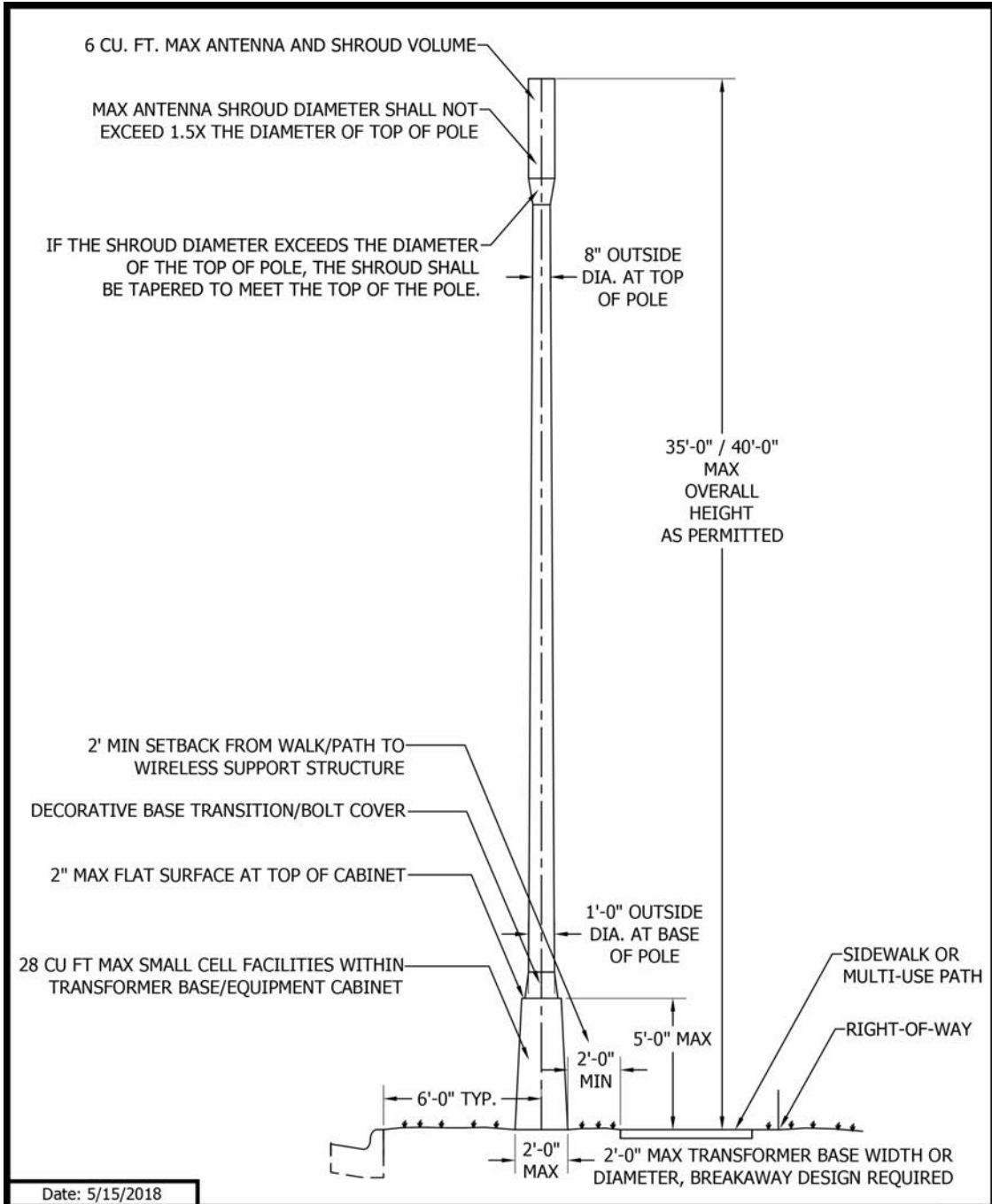



6.8 New Wireless Support Structure w/ Pole Mounted Facility Enclosure--SC-2A



	STANDARD DRAWING	
	<i>NEW WIRELESS SUPPORT STRUCTURE WITH SMALL CELL FACILITIES WITHIN POLE MOUNTED ENCLOSURE</i>	
	SHEET 1 OF 1	DRAWING NO. SC-2A

6.9 New Wireless Support Structure w/ Facilities in Transformer Base--SC-2C



	STANDARD DRAWING	
	<i>NEW WIRELESS SUPPORT STRUCTURE WITH SMALL CELL FACILITIES WITHIN TRANSFORMER BASE</i>	
	SHEET 1 OF 1	DRAWING NO. SC-2C




City of Dublin

Office of the City Manager

5200 Emerald Parkway • Dublin, OH 43017-1090
Phone: 614.410.4400 • Fax: 614.410.4490

Memo

To: Members of Dublin City Council
From: Dana L. McDaniel, City Manager 
Date: June 7, 2018
Initiated Jennifer D. Readler, Law Director
By: Vincent A. Papsidero, FAICP, Planning Director
Claudia D. Husak, AICP, Senior Planner
Re: Ordinance No. 41-18 - Amendments to Chapter 99 of the Dublin Codified Ordinances Addressing Small Cell Facilities and Wireless Support Structures within the Right-of-Way Including Design Guidelines

Summary

In December 2016 the Ohio legislature enacted a law that would allow companies to build technology infrastructure in public rights-of-way with minimal opportunity for local governments to consent to or regulate the build-out. In response, approximately ninety cities sued the state in five separate lawsuits. Fifty cities sued in Franklin County and the City of Dublin was among the fourteen Central Ohio plaintiffs. The law was overturned in June 2017, before officially going into effect, after a Franklin County Common Pleas Court judge ruled in favor of the cities and said that the law violated the state's "single-subject" rule as it was included in a bill that addressed varying topics, including puppy mills. The cities received favorable verdicts in three of the other four decisions, with the Summit County ruling being appealed.

The municipalities, with significant leadership from the City of Dublin, reached a compromise with members of the telecommunications industry regarding how to regulate certain wireless equipment within the rights-of-way of Ohio's communities. Municipal leaders and telecommunications industry representatives collaborated on new legislation, Ohio House Bill 478 ("H.B. 478"), which amended Ohio Revised Code section 4939. H.B. 478 was sponsored by Representative Sarah LaTourette, R-Chesterland, and Representative Ryan Smith, R-Bidwell. After approximately three months of hearings, the bill passed the Ohio House of Representatives by a 72-12 vote, and the Ohio Senate with at 26-7 vote. The law received public support from municipalities, including Dublin's City Manager, Dana McDaniel; wireless providers such as AT&T and Verizon; the Central Ohio Mayors and Managers Association (COMMA); the Ohio Municipal League (OML); and CTIA, which represents the U.S. wireless communications industry. The bill was signed by Governor John Kasich on May 2, 2018 and will go into effect on August 1, 2018. Ordinance 41-18 must be adopted and in effect as of this August 1, 2018 deadline in order to impose the proposed Dublin requirements on new applications.

Ohio Revised Code section 4939 as amended gives municipalities the ability to regulate the placement and appearance of small cell technology equipment – such as antennas, boxes and wires – that telecommunications companies seek to attach to traffic lights, utility poles, street

signs, and other public infrastructure in order to provide connectivity for cellphones and other wireless devices. In addition, the law regulates the construction of new signal towers ("wireless support structures") that are significantly smaller than macro towers. The law also prescribes the timeframes in which municipalities must vet requests by telecommunications companies to place equipment within city rights-of-way and the fees.

The new language ultimately provides more predictability and speed to the industry, while also protecting the character of Ohio's cities. As a result of the compromises outlined above, Council has very little discretion to vary from the requirements of the newly amended Ohio Revised Code section 4939.

A cross-department team has been preparing the code amendment and design guidelines, working with Ice Miller. The participants are Planning, Engineering and the Law Director. Assisting the team is Landplan Studios. The team has met with Verizon Ohio representatives and has conducted additional outreach to the other three carriers (AT+T, Sprint and T-Mobile). Additionally, a webpage on the City's website was created in March and the draft of this legislation has been posted for public review.

The draft ordinance to address small-cell facilities and wireless support structures in the right-of-way, and the small cell design guidelines, do not affect the City's existing regulations of macro-towers or any wireless facilities outside of the public right-of-way. The amendments to Sections 99.01 through 99.11 are only to ensure internal consistency and correct cross-references with the addition of proposed Sections 99.20 through 99.29 pertaining to small-cell facilities and wireless support structures in the right-of-way.

The Code amendment and the design guidelines document are summarized below:

Code Amendment - Chapter 99 Wireless Communications Regulations, Section 99.20-99.29 Small Cell Facilities and Wireless Support Structures within the Right-of-Way

This proposed code amendment to Chapter 99 establishes the permitting process for installation of small cell facilities on existing city infrastructure (e.g. traffic signals and light poles), as well as new poles owned and maintained by a carrier, and the removal of those facilities. These provisions are consistent with the recently adopted state law. Implementation occurs via the City's right-of-way permit process administered by the Department of Public Works. Review of requests for new poles will be assisted by the Division of Planning in support of DPW. Among the topics addressed are applicability, new definitions, application requirements, review timeframes and process, cross reference to design guidelines, standard conditions of permit approval, safety requirements, fees, severability and penalty.

Every application to locate small cell facilities in the right-of-way must be classified as one of the following types:

- 1. Co-location of small cell facilities on existing wireless support structures** (City must grant or deny request within **90 days** after the filing of an application)

- 2. New wireless support structure and associated small cell facilities** (City must grant or deny request within **120 days** after the filing of the application)
- 3. Wireless support structure and/or small cell facilities removal** (same timelines as for Non-Residential Right-of-Way Permit)
- 4. Eligible facilities request** – this involves the co-location or modification of small cell facilities on an existing tower built for the sole or primary purpose of supporting wireless facilities and does not substantially change the physical dimensions of the existing wireless support structure or site, as defined by federal law and regulation (City must grant request within **60 days** after the filing of the application per federal rule; the City may only deny this request if it determines that the request is not truly an “eligible facilities request”).

Design Guidelines

Pursuant to proposed Section 99.25, the City Manager is given the authority to promulgate detailed small cell design guidelines, which the City shall consider in reviewing an application. The guidelines are an administrative document that provides the quantitative and qualitative standards required for issuance of a permit by DPW. These guidelines are consistent with the recently adopted state law. Again, implementation occurs via the right-of-way permit administered by DPW. The guidelines describe the administrative process, provide general design guidelines per each type of application, provide context specific guidelines by geography (city-wide, Historic District and Bridge Street District) with the ability to add future districts as necessary (e.g. West Innovation District), and standard drawings and specifications.

The design guidelines are intended to allow sufficient flexibility to respond to and integrate future advances in small cell facilities technology as well as innovations that improve the ability for these facilities to integrate into the surrounding environment. Due to the rapid advances in wireless technology, the design guidelines will be evaluated periodically to ensure that the provisions respond and adapt accordingly to these evolving technologies.

Recommendation

Staff recommends adoption of Ordinance 41-18, authorizing the amendments to Chapter 99 and the accompanying design guidelines at the second reading/public hearing on June 25, 2018.

RECORD OF ORDINANCES

Ordinance No. 41-18 Passed _____, 20____

AN ORDINANCE ADOPTING AMENDMENTS TO CHAPTER 99 OF THE CITY OF DUBLIN CODIFIED ORDINANCES ADDRESSING SMALL CELL FACILITIES AND WIRELESS SUPPORT STRUCTURES WITHIN THE RIGHT-OF-WAY INCLUDING DESIGN GUIDELINES FOR SPECIFICATIONS AND AESTHETIC REQUIREMENTS THAT ALL SMALL CELL FACILITIES AND WIRELESS SUPPORT STRUCTURES MUST MEET PRIOR TO INSTALLATION IN THE CITY OF DUBLIN RIGHT- OF-WAY (CASE 18-011ADMC).

WHEREAS, it is necessary from time to time to amend Dublin’s Codified Ordinances to protect the health, safety and welfare of the citizens of the City of Dublin; and

WHEREAS, municipal leaders and telecommunications industry representatives collaborated on new legislation, Ohio House Bill 478 (“H.B. 478”), concerning how to regulate certain wireless equipment within the rights-of-way of Ohio’s municipalities; and

WHEREAS, the bill passed the Ohio House of Representatives by a 72-12 vote, and the Ohio Senate with a 26-7 vote; and

WHEREAS, the law received public support from municipalities, including Dublin’s City Manager, Dana McDaniel; wireless providers such as AT&T and Verizon; the Central Ohio Mayors and Managers Association (COMMA); the Ohio Municipal League (OML); and CTIA, which represents the U.S. wireless communications industry; and

WHEREAS, the bill was signed by Governor John Kasich on May 2, 2018 and will go into effect on August 1, 2018; and

WHEREAS, a cross-department team has been preparing the code amendment to Chapter 99 and the accompanying design guidelines; and

WHEREAS, the design guidelines are intended to allow sufficient flexibility to respond to and integrate future advances in small cell facilities technology as well as innovations that improve the ability for these facilities to integrate into the surrounding environment; and

WHEREAS, pursuant to proposed Section 99.25, the City Manager is given the authority to promulgate detailed small cell design guidelines; and

WHEREAS, H.B. 478, the proposed code amendments, and the proposed design guidelines do not affect existing regulations of macro-towers for wireless service or any wireless facilities outside of the City’s right-of-way.

NOW, THEREFORE, BE IT ORDAINED by the Council of the City of Dublin, _____ of its elected members concurring, that:

Section 1. Chapter 99 of the Codified Ordinances of the City of Dublin is hereby amended and shall provide as set forth in Exhibit A, attached to this Ordinance.

Section 2. Design Guidelines, as set forth in Exhibit B attached to this Ordinance, are hereby authorized, subject to amendment from time to time by the City Manager as provided by the amendments to Chapter 99 enacted by Section 1 of this Ordinance.

Section 3. The Council hereby finds that this Ordinance was deliberated upon and adopted in open meetings in compliance with the Charter of the City of Dublin and Section 121.22 of the Ohio Revised Code.

Section 4. This ordinance shall be effective on the earliest date permitted by law.

Passed this _____ day of _____, 2018.

Mayor - Presiding Officer

ATTEST:

Clerk of Council

CHAPTER 99: WIRELESS COMMUNICATIONS REGULATIONS

Towers and Wireless Communications Facilities

Section

- 99.01 Purpose and intent
- 99.02 Objectives
- 99.03 Applicability
- 99.04 Definitions
- 99.05 General requirements
- 99.06 Administrative review
- 99.07 Conditional use review
- 99.08 Abandonment of wireless communications facilities
- 99.09 Nonconforming towers or wireless communication facilities
- 99.10 Temporary wireless communications facilities
- 99.11 Architectural review

Small Cell Facilities and Wireless Support Structures within the Right-of-Way

Section

- 99.20 Purpose and intent
 - 99.21 Applicability
 - 99.22 Definitions
 - 99.23 Application required
 - 99.24 Application review timeframes and process
 - 99.25 Small cell design guidelines
 - 99.26 Standard conditions of permit approval
 - 99.27 Safety requirements
 - 99.28 Recovery of costs
 - 99.29 Severability
- 99.99 Penalty

TOWERS AND WIRELESS COMMUNICATIONS FACILITIES

§99.01 PURPOSE AND INTENT.

- (A) The purpose of ~~this chapter~~ **§§99.01 through 99.11** is to regulate the placement, construction, and modification of towers and wireless communications facilities to protect the health, safety and welfare of the public, while at the same time not unreasonably interfering with the development of a competitive wireless communications marketplace in the city.
- (B) The city's intent is to encourage wireless communications service providers that seek to further the following city priorities:
- (1) Co-locate on/with other existing towers/structures/facilities or locate on existing structures.
 - (2) Require new towers and other related structures to accommodate multiple users wherever practicable.
 - (3) Locate towers in the least obtrusive locations and manner using present and evolving technology.

- (4) Minimize adverse health, safety, public welfare, and visual impacts through co-location, siting, design, and construction, while upholding the purposes and objectives of this chapter.

§99.02 OBJECTIVES.

The following are the city's objectives regarding wireless communication regulations:

- (A) To comply with the Telecommunications Act of 1996, as amended, including any subsequent rules and/or rule interpretations by appropriate state and federal agencies and/or courts.
- (B) To work proactively with wireless communications providers to ensure rapid and reliable deployment of their services/technologies, while minimizing negative effects on the city.
- (C) To ensure that the location of towers and wireless communications facilities in the city provide appropriate wireless communication coverage consistent with these objectives.
- (D) To allow, under certain conditions, appropriate city-owned property and structures to be used for wireless communications facilities.
- (E) To minimize adverse visual impacts of towers and wireless communications facilities through careful design, siting, landscaping, and innovative camouflaging techniques.
- (F) To promote and encourage shared use/co-location of towers and antenna support structures as a primary option rather than construction of additional single-use towers.
- (G) To ensure towers and wireless communications facilities are soundly and carefully designed, constructed, modified, maintained, and removed when no longer in use.
- (H) To ensure to the maximum extent practicable that towers and wireless communications facilities are compatible with surrounding and nearby land uses.
- (I) To ensure to the maximum extent practicable that proposed towers and wireless communications facilities are placed in locations that are designed to preserve adjacent natural settings and in a manner consistent with existing and planned development patterns.

§99.03 APPLICABILITY.

- (A) All towers, antenna support structures, and wireless communications facilities, any portions of which are located within the city, are subject to ~~this chapter §§99.01 through 99.11~~, unless such facilities are small cell facilities or wireless support structures located in city right-of-way, in which case §§99.20 through 99.29 of the Code shall apply. Nothing herein supersedes the applicability of Ohio Revised Code §4939 to small cell facilities and wireless support structures in the city right-of-way. Underlying zoning district regulations and other provisions of the Code shall still apply to wireless communication facilities when not superseded by regulations within with §§99.20 through 99.29 of the Code, or §4939 of the Ohio Revised Code. Any wireless overlay zone shall not apply to small cell facilities and wireless support structures in the right-of-way. In the case of conflict with other provisions of the Code, with the exception of §§99.20 through 99.29 of the Code, the provisions of this §§99.01 through 99.11 shall control. Wireless communications facilities and antenna support structures shall be regulated and permitted pursuant to ~~this chapter §§99.01 through 99.11~~ and shall not be interpreted, regulated, or permitted as essential services, public utilities, or private utilities.

- (B) Except as provided in this chapter, any approved use of a nonconforming tower or antenna support structure on the effective date of this chapter shall be allowed to continue, even if in conflict with the terms of this chapter, but shall not be expanded, reconstructed, or modified unless in conformance with this chapter, as required in § 99.09.
- (C) Should any provision of this chapter conflict with any other provision of the Code, the strictest provision shall prevail.
- (D) ~~This chapter Sections 99.01 through 99.11~~ and the various sub-sections and clauses thereof, are hereby declared to be severable. If any part, sentence, paragraph, section, clause, or word is adjudged unconstitutional or invalid for any reason, by any court of competent jurisdiction, the invalidity shall not affect the remaining portions or applications of this chapter which shall be given effect without the invalid portion or application, provided those remaining portions are not determined by the court to be invalid.

§99.04 DEFINITIONS.

(A) General use of terms.

- (1) The terms, phrases, words, and their derivations used in ~~this chapter §§99.01 through 99.11~~ of this chapter shall have the meanings given in this section.
- (2) When consistent with the context, words used in the present tense also include the future tense; words in the plural number include the singular number; and words in the singular number include the plural number.
- (3) All terms used in the definition of any other term shall have their meaning as otherwise defined in this section.
- (4) The words "shall" and "will" are mandatory and "may" is permissive.
- (5) Words not defined shall be given their common and ordinary meaning.

(B) Defined terms. The definitions provided in this subsection shall apply for purposes of §§99.01 through 99.11:

ADMINISTRATIVE REVIEW TEAM or **ART**. Members of city staff listed in §99.06 or their designated representatives, and others appointed by the City Manager as deemed necessary.

ALTERNATIVE TOWER STRUCTURE. Includes, but is not limited to man-made trees, clock towers, bell steeples, light poles, power poles, and similar alternative-design mounting structures or other buildings or structures that are intended to camouflage or conceal the presence of antennas, towers, and other wireless communications facilities.

ANTENNA. Any transmitting or receiving device used in communications that radiate or capture electromagnetic waves, digital signals, analog signals, radio frequencies, wireless communications signals, or other communication signals.

ANTENNA SUPPORT STRUCTURE. Any building or structure other than a tower which can be used for the location of wireless communications facilities.

APPLICANT. Any person that applies for administrative review, conditional use review, certificate of zoning plan approval, or other permit or approval according to the requirements of §§99.01 through 99.11 of this chapter.

APPLICATION. The materials and process by which an applicant submits a request as authorized by the property owner and indicates a desire to be granted approval of an antenna, tower, antenna support structure, or any other wireless communications facility under the provisions of §§99.01 through 99.11 of this chapter. An application includes all written documentation, verbal statements, and representations, in whatever form or forum, made by an applicant to the city concerning the request, but shall not include materials submitted as part of a request for non-binding pre-application review.

ARCHITECTURAL REVIEW BOARD or ARB. The Architectural Review Board of the city, as created by § 153.172 of this Code of Ordinances.

ARCHITECTURAL REVIEW DISTRICT. The Architectural Review District of the city. The term may also be used to refer to Ohio Historic Inventory Properties as provided in §153.170 of this Code of Ordinances, where appropriate.

BACKHAUL NETWORK. ~~The infrastructure that connects a provider's wireless communications facility sites to one or more cellular telephone switching offices, and/or long distance providers, or the public switched telephone network.~~

BOARD OF ZONING APPEALS or BZA. The Board of Zoning Appeals for the city, as created by the Dublin City Charter, Article VII.

CABLE MICROCELL NETWORK or CMN. A wireless telecommunications facility characterized by small antennas and equipment cabinets, and typically located on a small diameter monopole; on an existing or replacement street light, power pole, sign, or other suitable structure; or on an existing building.

CELLULAR-ON-WHEELS or COW. A temporary mobile wireless communications facility that consists of a wireless antenna tower and associated equipment on a truck, trailer, or other mobile structure designed to be part of a wireless network.

CHIEF BUILDING OFFICIAL. The Chief Building Official of the city.

CITY. The City of Dublin, Ohio.

CITY ENGINEER. The City Engineer of the city.

CODE. The Code of Ordinances of the city.

CO-LOCATION. The use of, or ability to use, a wireless communications facility or support structure by more than one wireless communications provider or more than one wireless antenna array.

CONDITIONAL USE. A use allowed in a zoning district after approval of the Planning and Zoning Commission according to the provisions of §153.236 of this Code of Ordinances.

COUNCIL. The City Council of the city.

DIRECTOR. The Director of Land Use and Long Range Planning of the city, or a designee.

DISTRIBUTED ANTENNA SYSTEM or **DAS.** A network of spatially separated antenna nodes connected to a common source via a transport medium that provides wireless service within a geographic area or structure which also may or may not contain fiber optic transport and/or landline components.

DISTRICT or **ZONING DISTRICT** or **ZONE DISTRICT.** A portion of the city within which certain uses of land and/or buildings are permitted and under the regulations and requirements of Chapter 153 of this Code of Ordinances.

EMERGENCY. A reasonably unforeseen occurrence with a potential to endanger personal safety or health, or cause substantial damage to property, that calls for immediate action, mitigation, or abatement.

ENGINEER. Any engineer currently licensed by the State of Ohio.

EQUIPMENT SHELTER or **EQUIPMENT CABINET.** The structure in which the electronic receiving and relay equipment or other necessary equipment for a wireless communications facility is located.

FAA. The U.S. Federal Aviation Administration, and any legally appointed, designated, or elected agent or successor.

FCC. The U.S. Federal Communications Commission and any legally appointed, designated, or elected agent or successor.

HEIGHT or **ABOVE GROUND LEVEL** or **AGL.** When referring to a tower or other structure, the distance measured from the finished grade at the base of the tower or structure to the highest point on the tower or structure, including the base pad and any antenna, but not including lightning arrest devices.

MONOPOLE. A support structure constructed of a single, self-supporting hollow metal tube securely anchored to a foundation.

MULTI-USE TOWER. A self-supporting lattice, guyed, or monopole structure constructed from grade which supports more than one wireless communications facility.

NONCONFORMING TOWER. Any tower or antenna lawfully existing at the effective date of or amendment to §§99.01 through 99.11 of this chapter which does not currently conform to the requirements of §§99.01 through 99.11 of this chapter.

PERSON. Any individual, firm, partnership, association, corporation, company, or other legal entity, private or public, whether for profit or not-for-profit.

PLANNING AND ZONING COMMISSION or **PZC.** The Planning and Zoning Commission for the city, as created by the City Charter, Article VII.

RECONSTRUCTED TOWER. A tower which is removed in whole or in part and replaced in whole or in part. For the purposes of §§99.01 through 99.11 of this chapter, a reconstructed tower

is a tower for which approvals have been granted in accordance with the provisions of §§99.01 through 99.11 of this chapter. The term and its use shall not apply to nonconforming towers.

RECORD OF DETERMINATION. The official written record of action by the Administrative Review Team.

SMALL CELL FACILITY. A wireless facility that meets both of the following requirements:

- (1) Each antenna is located inside an enclosure of not more than six (6) 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.
- (2) All other wireless equipment associated with the facility is cumulatively not more than twenty-eight (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.

STEALTH. A wireless communications facility designed to appear as another natural or artificial object that exists in the surrounding environment or which is architecturally integrated into a building or other structure, and designed to be minimally obtrusive and to camouflage or conceal the presence of antennas or towers, at the determination of the required reviewing body.

TEMPORARY WIRELESS COMMUNICATIONS FACILITIES. A cellular-on-wheels unit; an antenna on a bucket truck, crane, crank-up tower, tower; or another wireless communications facility required to evaluate a site for a temporary placement of a wireless communications facility as permitted by §§99.01 through 99.11 of this chapter or for providing communications during an emergency, special event, conference, or other situations for limited periods while the use of a permanent wireless communication facility is temporarily interrupted.

TOWER. Any structure designed and constructed primarily for the purpose of supporting one or more antennas for telephone, radio, and similar communication purposes, including self-supporting lattice towers, guyed towers, or monopole towers. The term includes radio and television transmission towers, microwave towers, common-carrier towers, wireless communications towers, alternative tower structures, and the like. The term includes the structure and any necessary supports.

WIRELESS COMMUNICATIONS FACILITIES or WCF. Includes, but shall not be limited to, towers, poles, cables, wires, lines, wave guides, antennas, microwave dishes, small cell facilities and wireless support structures, and/or any other equipment or facilities associated with the transmission or reception of communications as regulated by the FCC (or other unregulated wireless communication facility). The term shall not include:

- (a) Any satellite earth station antenna two meters or less in diameter or diagonal measurement located in a non-residential district. (§153.095(B)(3) and (4) shall be applicable.)
- (b) Any satellite earth station antenna one meter or less in diameter or diagonal measurement that is designed to receive direct broadband satellite service, including direct-to-home

satellite services, or to receive or transmit fixed wireless signals via satellite regardless of zoning category. (§153.095(B) shall be applicable.)

- (c) Any antenna that is one meter or less in diameter or diagonal measurement and is designed to receive video programming service via broadband video services (wireless cable) or to receive or transmit fixed wireless signals other than via satellite.
- (d) Any antenna that is designed to receive local television broadcast signals and does not use a mast higher than 12 feet above the tallest point of the roof of the tallest principal or accessory structure, excluding chimneys, cupolas, or other architectural elements.
- (e) Antennas used by amateur radio operators (§153.096(A) shall be applicable).
- (f) Towers, structures, antennas, or other equipment used for the purposes of operating a public safety voice or data radio network or an outdoor early warning system within the city limits. This includes directional and omnidirectional antenna equipment, as well as microwave and point-to-point equipment.

WIRELESS SUPPORT STRUCTURE. A pole, street light pole, traffic signal pole, a fifteen-foot or taller sign pole, or utility pole capable of supporting small cell facilities, excluding utility poles or other facilities used to supply traction power to public transit systems, including railways, trams, streetcars, and trolleybuses.

WIRELINE BACKHAUL NETWORK. A facility used for the transport of communications service or any other electronic communications by coaxial, fiber-optic cable, or any other wire.

§99.05 GENERAL REQUIREMENTS.

(A) Wireless communications facilities, where permitted, shall be subject to administrative review or conditional use review in the zoning districts specified in Chapter 153 of this Code of Ordinances, contingent upon meeting the requirements of this chapter and Chapter 153, and other applicable ordinances of the city. Certain facilities as specified in this chapter shall be subject to review by the Architectural Review Board in accordance with §99.11.

Collocation of small cell facilities in, along, across, upon, and under the city right-of-way, and construction, maintenance, modification, operation, or replacement of wireless support structures in, along, across, upon, and under the city right-of-way, as defined in §99.22, are subject to the requirements of §§99.20 through 99.29 of this chapter and are not otherwise subject to zoning review or approval.

(B) The following table summarizes the city's zoning districts and approval procedures applicable to the facilities regulated by **§§99.01 through 99.11** of this chapter.

- (1) Administrative review: See §99.06.
- (2) Conditional use review: See §99.07.
- (3) Architectural Review Board: See §99.11.

<i>Zoning District (exclusive of small cell facilities and/or wireless support structures in the right-of- way)</i>	<i>Approval Procedures</i>			
	<i>Co-Location¹</i>	<i>New Tower</i>	<i>Alternative Structure²</i>	<i>Temporary Facilities</i>
Rural and Residential	Administrative ⁴	Not Permitted	Conditional Use ⁴	See §99.10
Commercial (except Suburban Office and Institutional and Neighborhood Commercial)	Administrative	Conditional Use	Administrative ³	See §99.10
Suburban Office and Institutional; Neighborhood Commercial	Administrative	Not Permitted	Administrative ³	See §99.10
Limited and General Industrial, Technology Flex	Administrative	Conditional Use	Administrative ³	See §99.10
OLR and Restricted Industrial	Administrative	Not Permitted	Administrative ³	See §99.10
Innovation Zone	Administrative	Conditional Use	Administrative ³	See §99.10
Bridge Street Corridor	Administrative	Conditional Use	Administrative ³	See §99.10
Planned Districts (except Planned Industrial Park)	Administrative	Conditional Use	Administrative or Conditional Use ⁵	See §99.10
Planned Industrial Park	Administrative	Conditional Use	Administrative ³	See §99.10
Architectural Review District	ARB Approval	Not Permitted	ARB Approval	See §99.10

¹Co-location on existing antenna support structures or towers.

²The intent of alternative tower structures is to camouflage the tower/antenna installation.

³If the Director determines that the essential criterion of footnote 2, above, has not been met, the application for administrative review and certificate of zoning plan approval shall be denied. The applicant may submit an application for conditional use review by the Planning and Zoning Commission. (See § 99.07)

⁴Co-location on properties in the Rural District or Residential zoning districts and owned by the City of Dublin, Washington Township, or Dublin City Schools shall be subject to administrative review. (See §99.06)

⁵Applications involving a request to install an alternative structure on a property zoned PUD, Planned Unit Development District allowing residential uses shall be subject to conditional use review. (See §99.07)

(C) *General requirements.* The following requirements shall apply to all wireless communications facilities in any zoning district, with the exception of small cell facilities and wireless support structures in the city right-of-way in accordance with §§99.20 through 99.29. These requirements shall be in addition to the regulations of the specific zoning districts in §99.05(B).

(1) *Application.* The following information must be submitted for all applications required by §§99.01 through 99.11 of this chapter unless deemed unnecessary by the Director. An application is not considered complete until all required materials have been submitted and accepted by the city. If an application is determined to be incomplete, the Director shall promptly notify the applicant of the information necessary to complete the application. The Director or the ART may request additional information if deemed reasonably relevant to the consideration of the application.

(a) Completed application form and application fee.

(b) A scaled and dimensioned site plan (not less than one inch equals 50 feet) clearly indicating the following:

1. Location, type and height of the proposed wireless communications facility;
2. The existing or proposed lease area and parcel boundaries for the site;
3. On-site land uses and zoning, and adjacent land uses and zoning (including land in other municipalities);
4. Adjacent roadways and rights-of-way;
5. Any buildings within 100 feet of the property boundaries;
6. Proposed means of pedestrian and/or vehicular access as applicable to the type of facility;
7. The setback distance between the proposed wireless communications facility, equipment shelters and/or cabinets, and the nearest property line;
8. Elevation drawings of the proposed wireless communications facilities, including material specifications for all associated site improvements; and
9. Any other proposed improvements, including but not limited to structures, grading, tree removals and replacement, topography, parking, and other information necessary to determine compliance with §§99.01 through 99.11 of this chapter.

(c) Legal description and/or property survey of the parent tract and leased parcel (if applicable).

(d) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, the separation distance from other existing and planned wireless communications facilities shall be shown on a map, and shall include latitudinal and longitudinal location coordinates. The applicant shall also identify the type of construction of the existing wireless communications facilities and the owner/operators of the existing facilities, if known.

(e) A landscape plan showing proposed landscape materials and quantities, locations, installation sizes, and other information necessary to determine compliance with the landscape requirements of Chapter 153 of this Code of Ordinances.

- (f) Location and method of screening structures, if any, including height, material, style, and color; and, if applicable, the method of camouflage and illumination. Specification sheets shall be required for all prefabricated site elements.
- (g) A statement of compliance with the applicable requirements of this chapter and all applicable federal, state or local laws, including those of the FCC and FAA.
- (h) Twenty-four hour emergency contact information and contact information for the entities providing the backhaul network for the wireless communications facilities described in the application and other wireless communications sites owned or operated by the applicant in the municipality. Contact information for the tower owner, operator, and emergency contact shall be kept current and on file with the city at all times.
- (i) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, a statement by the applicant and/or a structural analysis sealed by an engineer affirming that the construction of the wireless communications facility will accommodate co-location of additional antennas for future users as applicable.
- (j) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, a statement from an engineer of the ability or inability to use existing towers, other structures, or alternative technology not requiring the use of towers or structures, to provide the services planned for the use of the proposed wireless communications facility.
- (k) For all new towers and/or new alternative tower structures, or as otherwise required by the required reviewing body, an inventory of any existing and approved towers, antennas, alternative tower structures, antenna support structures, and existing wireless support structures and small cell facilities that are either within the jurisdiction or within two miles of the border of the city, with latitudinal and longitudinal location coordinates. The city may share this information with other applicants under this chapter or other organizations seeking to locate towers or antennas within the jurisdiction of Dublin or other communities. However, the city is not, by sharing this information, in any way representing or warranting that the sites are available or suitable. The inventory of each tower and antenna shall include:
 1. A map showing each location, by address and/or parcel identification number, including straight-line distances between each facility;
 2. Facility height and design;
 3. Facility owner(s)/operator(s); and
 4. Co-location capability of each facility, including alternative tower structures and antenna support structures.

(2) *Application procedures.*

- (a) Applications for all wireless communications facilities, except for applications for the collocation of small cell facility and the construction, maintenance, modification, operation, or replacement of wireless support structures in, along, across, upon, and under the city rights-of-way that are subject to §§99.20 through 99.29 of this chapter, shall be submitted in accordance with §§99.05 through 99.07, as applicable.
- (b) The applicant shall pay a non-refundable fee as established by the city.

- (c) When practicable, application for approval of multiple towers and/or antenna sites by a single owner of towers and antennas shall be submitted as a single application or multiple applications submitted at the same time.
 - (d) *Historic Register/District.* Any application to locate a wireless communications facility on a building or structure that is listed on a federal or state historic register or within the Architectural Review District shall be subject to review by the Architectural Review Board in accordance with § 99.11, in addition to any other required review procedures.
 - (e) *Public property.* Approval by the City Manager or his or her designee shall be required for any applications involving structures to be located on property owned by the city, except for applications for small cell facilities and/ or wireless support structures in the public right-of-way, which are governed by §§99.20 through 99.29.
- (3) *Wireless communications facility support structures.* Towers, antennas, antenna support structures, and all other improvements associated with a wireless communications facility subject to §§99.01 through 99.11 of this chapter shall meet the following requirements:
- (a) *Design.* All wireless communication facility support structures shall have a monopole, unipole, or similar non-lattice single vertical structure design and shall be further designed to accommodate at least two wireless communication arrays of antennas or panels, unless otherwise required by the required reviewing body. The applicant shall submit an affidavit by an engineer licensed in the State of Ohio attesting that these requirements are met.
 - (b) *Color and finish.* Towers, antennas, other wireless communications facility support structures, and supporting electrical and mechanical equipment shall either maintain a non-contrasting gray or similar color or have a galvanized steel finish unless otherwise required by the required reviewing body or any applicable standards of the FAA and/or the Ohio Department of Transportation. Alternative tower structures may maintain another color or finish if determined by the required reviewing body to be necessary to establish a stealth appearance and be aesthetically and architecturally compatible with the surrounding environment.
 - (c) *Compatible design.* The design of buildings and related structures for the wireless communications facility shall use materials, colors, textures, and screening so as to be aesthetically and architecturally compatible with the surrounding environment, as approved by the required reviewing body.
 - (d) *Antenna color.* If an antenna is installed on a structure other than a tower, the antenna and supporting electrical and mechanical equipment must be a neutral color that is identical to, or closely compatible with, the color of the supporting structure so as to make the antenna and related equipment as visually unobtrusive as practicable, as determined by the required reviewing body.
 - (e) *Lighting.* Facilities shall not be artificially lighted, unless required by the FAA or other applicable authority. If lighting is required, the lighting fixtures and installation must cause the least disturbance to views from surrounding properties. Alternative tower structures may be lighted if determined by the required reviewing body to be necessary to establish a stealth appearance and to be aesthetically and architecturally compatible with the surrounding environment.

- (f) *Maximum height.* Wireless communications facilities subject to §§99.01 through 99.11 of this chapter shall meet the following height requirements:
1. In residential zoning districts, up to 80 feet;
 2. In all other zoning districts, up to 120 feet, provided that the facility is designed to be co-locatable for more than one additional carrier. In no case shall a wireless communications facility, including antenna, exceed 120 feet, as measured from grade at the base of the tower, unless the required reviewing body determines that conditions present in the vicinity require a taller structure in order to function.
 3. For wireless communications facilities locating on a structure or building, antenna shall not extend more than 20 feet above the highest point of the main roof deck or supporting structure if the antenna is located on a structure other than a roofed building.
 4. Unless otherwise required herein, alternative tower structures may exceed 120 feet if determined by the required reviewing body to be necessary to establish a stealth or camouflaged appearance that is aesthetically and architecturally compatible with the surrounding environment.
 5. Unless otherwise specified, maximum height exceeding the provisions of division (C)(3)(f)1-4 of this section shall require conditional use review under the provisions of § 99.07.
 6. As an exception to division (C)(3)(f)1-5 of this section, users locating on a city water tank are exempt from the height requirements of this chapter, but facilities shall be no taller than functionally necessary.
- (g) *Co-location.* Unless physically or technically infeasible, all wireless communications facilities shall be constructed or reconstructed to accommodate two or more users.
1. In connection with any application for certificate of zoning plan approval, in order to encourage co-location, an existing tower meeting co-location requirements that is lower than the height permitted above may be reconstructed to meet the maximum heights permitted after receiving approval from the required reviewing body. Additionally, reconstructed towers may be required to be brought into conformance in whole or in part if the existing tower is determined by the Director to be nonconforming.
 2. A wireless communications facility which is being rebuilt to accommodate the location of additional antennas may be relocated on the same site, after receiving approval from the required reviewing body, provided it meets the setback requirements of this chapter.
 3. Co-location requirements may be waived if the required reviewing body determines that the fees, costs, or contractual provisions required by the owner in order to share an existing tower or structure or to adapt an existing tower or structure for sharing are unreasonable. Costs that would exceed new tower development are an example of what may be determined to be unreasonable. Satisfactory and substantial information must be submitted by the applicant demonstrating that the costs are unreasonable.
- (4) *Site requirements.* Wireless communications facilities subject to §§99.01 through 99.11 of this chapter and associated site improvements shall be sited and developed in accordance with the following requirements:

(a) *Setback and siting requirements.*

1. The setback requirements shall be met for all elements of the wireless communications facility, supporting structure, and equipment.
2. A minimum setback of 100 feet from all property lines shall apply to new towers and/or alternative tower structures unless a greater setback for principal structures is required by the zoning district in which the tower is to be located. In determining the required setbacks and lot area, the entire site, including all lots or parcels used for the tower, supporting structures, and equipment, shall be considered, even though the antennas or towers may be located on leased portions within the prescribed lot area.
3. The required reviewing body may permit a reduced setback for alternative tower structures provided that the reduced setback is required for the function or purpose of that structure and not for the purposes of the tower/antenna location.
4. The required reviewing body may permit a reduced setback for all other wireless communications facilities if the location is required for the function of the tower or antenna and no other reasonable alternative location exists. Satisfactory and substantial information must be submitted by the applicant demonstrating that all other locations are unreasonable.
5. Refer to division (C)(5) of this section for regulations pertaining to the siting of equipment associated with wireless communications facilities.

(b) *Screening.* Screening shall comply with applicable requirements of Chapter 153 of this Code of Ordinances. Fencing or other materials used for screening of wireless communications facilities or associated equipment shall be at least one foot higher than the structure(s) it is intended to screen, but shall not exceed 12 feet.

(c) *Landscaping.* Buffer plantings shall be located on the site to screen adjacent properties and the base of the wireless communications facility and associated equipment from adjacent properties and rights-of-way in accordance with the landscape requirements of §§99.01 through 99.11 of this chapter and Chapter 153 of this Code of Ordinances.

(d) *Sign.* One sign shall be posted in a visible location on the tower, alternative tower structure, fence, equipment shelter, or other associated equipment indicating the owner of the facility, and an emergency contact and phone number. The sign shall not exceed two square feet and shall be approved as part of the building permit or certificate of zoning plan approval. All other signs shall comply with the requirements of Chapter 153 of this Code of Ordinances.

(5) *Equipment shelters and cabinets.*

(a) *Design and screening.*

1. Equipment cabinets or structures used in association with antennas shall be designed and/or painted to minimize visual impact.
2. Evergreen plant material shall be used for screening and shall be planted to ensure that the equipment will be screened to its full height within three years of planting.
3. Existing mature tree growth and natural land forms on the site shall be preserved to the maximum extent possible. In some cases, such as towers sited on large, wooded lots, the required reviewing body may determine that natural growth around the property may be a sufficient buffer.

4. At the required reviewing body's determination, alternative screening materials may be used in cases where plant material is not appropriate.
- (b) *Underground equipment shelters.* Underground equipment shelters will be required by the required reviewing body where equipment shelters are located on properties that are readily visible from adjacent streets and lots and where landscape screening is not effective.
- (c) *Roof- and/or structure-mounted antennas.* The equipment cabinet or structure used in association with antennas shall comply with applicable building codes. Additionally, equipment shall be sited, designed, and/or painted to minimize visual impact and be screened so that it is not visible from ground level.
- (d) *Utility- or light pole-mounted antennas.* The equipment cabinet or structure used in association with antennas shall be located in accordance with the following:
1. In all zoning districts, the equipment cabinet or structure shall comply with all applicable setbacks required by the zoning district in which it is located.
 2. If the proposed antenna mounted on a utility or light pole is located within an existing easement, the applicant shall obtain a separate easement encroachment agreement as required by the City Engineer.
- (e) *Tower-mounted antennas.* As an exception to division (C)(5)(b) of this section, where the required reviewing body determines that underground equipment shelters are not feasible due to site conditions or other considerations, equipment shelters designed using materials permitted for principal structures within the zoning district shall be provided where applicable. The unmanned equipment structure shall not exceed the maximum height for principal structures and comply with setbacks required by the zoning district in which the shelter is located.
- (6) *Code compliance and permit requirements.*
- (a) *Construction permits.* The installation of any wireless communications facility shall require compliance with all applicable federal, state, and local regulations and the securing of all applicable zoning and building permits and inspections. All towers and associated wireless communications facilities subject to §§99.01 through 99.11 of this chapter require a certificate of zoning plan approval and applicable building permits prior to installation.
- (b) *State or federal requirements.*
1. All wireless communications facilities shall meet or exceed current standards and regulations of the FAA, the FCC, and any other agency of the state or federal government with the authority to regulate towers and antennas.
 2. If state or federal standards and regulations are amended, the owners of the wireless communications facilities governed by §§99.01 through 99.11 of this chapter shall bring any facilities into compliance with the revised standards and regulations within six months of the effective date of the standards and regulations, unless a different compliance schedule is mandated by the regulating agency. Failure to bring wireless communications facilities into compliance with any revised standards and regulations shall constitute grounds for removal at the owner's expense.
- (c) *Building codes and safety standards.*

1. To ensure the structural integrity of towers, the owner of a tower and/or antenna support structure shall ensure that it is designed, constructed, and maintained in compliance with requirements contained in applicable state or local building codes and the applicable requirements for towers and antenna support structures that are published by the Electronics Industries Association, as amended from time to time.
 2. If, upon inspection, the city concludes that a wireless communications facility fails to comply with any applicable codes and requirements and constitutes a danger to persons or property, after written notice to the owner, the owner shall have not more than 30 days to bring the facility into compliance with those requirements. Failure to bring the facility into compliance within the required time shall be grounds for removal at the owner's expense.
- (d) *License to operate.* Owners and/or operators of wireless communications facilities shall maintain and submit copies of all approved franchises, certifications, licenses, and permits required by law for the design, construction, location, and operation of wireless communications facilities in Dublin. Evidence of renewal or extensions shall be promptly provided to the Director.
- (e) *Certification.* Any information of an engineering nature required by this chapter, whether civil, mechanical, or electrical, shall be certified by a licensed engineer.

§99.06 ADMINISTRATIVE REVIEW.

(A) General provisions.

(1) Administrative Review Team (ART).

- (a) The purpose of the Administrative Review Team is to provide for review and approval authority for certain wireless communications facilities **as required by this chapter**. The Administrative Review Team is responsible for the comprehensive review of each application **submitted in accordance with §§99.01 through 99.11 of this chapter**, and making recommendations to the Planning and Zoning Commission, Architectural Review Board, or Board of Zoning Appeals where required.
- (b) The Administrative Review Team shall consist of the Director (Chair), City Engineer, Fire Chief, Economic Development Manager, Parks and Open Space Director, Police Chief, and Chief Building Official, or their representatives, and any other members appointed by the City Manager as deemed necessary, either as permanent or temporary members.
- (c) The Administrative Review Team may use the services of other professionals, such as architectural, engineering, and other consultants as they deem necessary, to advise the ART on the application of the provisions of **§§99.01 through 99.11 of** this chapter.

(2) An application for administrative review shall be made in accordance with the requirements of § 99.05(C)(1) and (C)(2).

(3) *Public reviews.* Where public reviews are required by **§§99.01 through 99.11 of** this chapter, a written notice of the public meeting shall be sent to the applicant, property owner, and owners of parcels of land within 300 feet of the subject parcel(s), as listed on the County Auditor's current tax list, not less than ten days prior to the meeting. The notice shall, at a minimum, indicate the property that is the subject of the request, describe the nature of the request, the time, date, and location of the meeting at which the

application will be considered, and indicate when and where written comments will be received concerning the request.

(4) *Time extensions.*

- (a) Where the provisions of §§99.01 through 99.11 of this chapter require that an action be taken by the city within a stated period of time, that time may be extended with the written consent of both the applicant and the Director prior to expiration of the required time period.
- (b) If the applicant submits a revised application during any required review period, and the Director determines that the revised application differs substantially from the previous application, a new review period shall begin and additional meetings of the required reviewing body may be scheduled if deemed necessary by the Director.

(5) *Duration of approvals.* Approvals of requests for administrative review made in accordance with §§99.01 through 99.11 of this chapter shall be valid for a period of one year. If an initial building permit for the approved facility has not been issued within that one year period, the applicant shall be required to submit a new request for administrative review, as applicable, pursuant to §§99.01 through 99.11 of this chapter before obtaining a building permit.

(6) *Resubmission.* No application for administrative review which has been denied by the required reviewing body shall be resubmitted for a period of one year from the date of the decision, unless permitted by the Director after a demonstration by the applicant of a change of circumstances from the previous application that may reasonably result in a different decision.

(B) *Pre-application review.*

(1) *Purpose and applicability.*

- (a) At the option of the applicant, a pre-application review may be scheduled prior to filing a formal application for administrative review. The pre-application review is not part of the formal application review process or the required review period. The purpose of the pre-application review is to provide non-binding feedback to applicants to assist in expediting the administrative review process. Any materials submitted to the city for the purposes of the pre-application review shall become part of the public record.
- (b) Pre-application reviews do not result in a development decision or permit, and shall not obligate the city or the applicant to take any action on the proposal.

(2) *Pre-application review procedure.*

- (a) A request for a pre-application review shall be made in accordance with the provisions of this division (B). As an exception to the application requirements listed in § 99.05(C)(1), potential applicants may submit conceptual information based on the amount of information known about the project at the time a request for pre-application review is made. The request shall include, at a minimum, ten copies of the following information:

1. A general description of the proposal including a description of conformance to §§99.01 through 99.11 of this chapter;
 2. A site plan generally demonstrating the nature of the proposed wireless communications facility and associated site improvements;
 3. Conceptual facility elevations; and
 4. Any other materials for which the potential applicant would like to receive feedback.
- (b) The city shall notify the applicant in writing at least five days prior to the pre-application review.
- (c) The Administrative Review Team and other applicable departments shall be promptly notified of the Administrative Review Team pre-application review. Prior to the meeting the Director shall distribute the submitted materials to the Administrative Review Team and other applicable city departments for input and recommendations.
- (d) The Administrative Review Team shall review the submitted materials and provide non-binding input and recommendations. The ART shall complete its review of the application not more than 14 days from the date the request was submitted.
- (e) A written summary of comments and suggestions made during the pre-application review shall be provided to the applicant not more than ten days after the pre-application review.

(C) *Administrative review.*

(1) *Purpose and applicability.*

- (a) The purpose of the administrative review is to ensure that wireless communications facilities meet the applicable requirements of §§99.01 through 99.11 of this chapter.
- (b) Administrative review is required for all new wireless facilities, co-locations, and all modifications to existing facilities as required by §99.05(B). Cable microcell networks and distributed antenna systems that do not require the use of towers shall also be subject to administrative review.
- (c) Temporary wireless facilities shall meet all application and approval requirements of §99.10.

(2) *Administrative review considerations.* The Administrative Review Team shall render a decision on an application for administrative review based on the following considerations:

- (a) Antennas locating on an existing building or other antenna support structure other than a tower may be approved as a use accessory to any commercial, industrial, professional, office, institutional, or similar structure, provided:
 1. The antenna is designed to be as unobtrusive as possible;
 2. The antenna does not extend more than 20 feet above the highest point of the main roof deck or supporting structure if the antenna is located on a structure other than a roofed building; and
 3. The antenna complies with the applicable provisions of § 99.05.
- (b) Co-located antennas on existing or reconstructed towers may be approved provided the color and design of the antenna is consistent with the existing tower and is designed to be as unobtrusive as possible.

1. The Administrative Review Team shall approve co-located antennas on a tower in instances where proposed co-location does not substantially change the physical dimensions of the tower and meets the requirements of §§99.01 through 99.11 of this chapter.
- (c) Alternative tower structures may be approved in accordance with the following:
1. The required reviewing body may approve the location of an alternative tower structure provided the site meets the purpose, objectives and applicable requirements of §§99.01 through 99.11 of this chapter.
 2. The objective of administrative review for alternative tower structures is to encourage ingenuity and the use of innovative methods to camouflage these facilities. If the application is denied by the Administrative Review Team following a finding that the proposed facilities have not been reasonably disguised or camouflaged, the applicant may file an application for conditional use review in accordance with §99.07.
- (d) Cable microcell network or distributed antenna systems using multiple low-powered transmitters/receivers attached to existing wireline systems, such as conventional cable or telephone wires, or similar technologies/mechanisms may be approved provided that the use of towers is not required and all other applicable provisions §§99.01 through 99.11 of this chapter have been satisfied.
- (3) *Decisions.*
- (a) Any application required by §§99.01 through 99.11 of this chapter to be reviewed under the provisions of this section shall be approved, approved with conditions, or denied by the Administrative Review Team based on the applicable review standards as provided in §§99.01 through 99.11 of this chapter not more than 28 days from the receipt of a completed application. The Administrative Review Team shall state the reasons for their decisions in the minutes and provide a written record of the decision to the applicant not more than ten days after a recommendation or decision is made, unless otherwise provided in §§99.01 through 99.11 of this chapter.
 - (b) Prior to reaching a decision, if the Administrative Review Team determines that an application does not meet the applicable review standards as provided in §§99.01 through 99.11 of this chapter, but determines that the application could meet those criteria with modifications that could not be reasonably conditioned, the applicant may request that the application be tabled to provide the opportunity to make those modifications. If the request for tabling is granted, a new review period shall begin on the date the applicant submits a complete application with revised materials and shall be subject to the timeframe for rendering a decision as provided in division (C)(3)(a) of this section.
 - (c) Following the approval of an application for administrative review, the applicant may proceed with the process for obtaining a certificate of zoning plan approval and building permit, consistent with the approval as granted. All construction and development under any building permit shall comply with the approval, as applicable.
- (4) *Certificate of zoning plan approval.* A certificate of zoning plan approval issued by the Director verifying compliance with all applicable zoning requirements is required prior to

modification, extension, or alteration of wireless communications facilities **that are subject to §§99.01 through 99.11 of this chapter.**

(D) *Administrative departures.*

- (1) *Purpose and applicability.* The intent of this division (D) is to provide an administrative process to allow minor deviations from the strict application of requirements of **§§99.01 through 99.11 of** this chapter caused by unusual site or development conditions or other similar conditions that require reasonable adjustments, but remain consistent with the intent of **§§99.01 through 99.11 of** this chapter. Examples include, but are not limited to, adjustments to wireless communications facility setbacks, landscaping and screening, or other similar features or elements.
- (2) *Review procedure.*
 - (a) An application for administrative departure may be submitted with an application for administrative review, or at any time after an application has been submitted and before a decision or recommendation by the Administrative Review Team has been made. If an application for administrative departure is made after an application for administrative review has been filed, the Director may require that the time period for administrative review start over on the day the request for an administrative departure is received.
 - (b) An application for an administrative departure may be processed simultaneously with the application for administrative review to which it relates. The Administrative Review Team shall determine whether each requested administrative departure is approved, approved with conditions, or denied.
 - (c) Should the Administrative Review Team find that the request does not meet the criteria for an administrative departure, the applicant may file for a variance in accordance with § 153.231 of this Code of Ordinances, or submit a new application for administrative review.
- (3) *Criteria for administrative departure approval.* The Administrative Review Team shall make its decision on an administrative departure based on the following criteria:
 - (a) The need for the administrative departure is caused by unique site conditions, conditions on surrounding properties, and is not being requested simply to reduce cost or as a matter of general convenience;
 - (b) The administrative departure does not have the effect of authorizing any wireless communications facility type that is not otherwise permitted in that zoning district;
 - (c) The administrative departure does not modify any numerical development standard by more than 10% of the requirement; and
 - (d) The administrative departure, if approved, will ensure that the wireless communications facility is of equal or greater development quality with respect to design, material, and other features than without the administrative departure.

(E) *Appeals.* The determination rendered by the Administrative Review Team may be appealed to the Board of Zoning Appeals within 20 days of the decision by any person aggrieved by the decision. The Appeal shall be filed with the city, specifying the grounds, in conformance with §153.231 of this Code of Ordinances.

- (1) An appeal shall stay all proceedings in furtherance of the action appealed from unless the Director certifies to the Board of Zoning Appeals, after notice of appeal has been filed,

that, by reason of the facts stated in the record of determination, a stay would cause imminent peril to life or property. In this case, the proceedings shall not be stayed other than by a restraining order, which may be granted by a court of record.

- (2) In deciding the appeal, the Board of Zoning Appeals shall determine, in conformance with §153.231(F) of this Code of Ordinances, whether the decision was made using the proper requirements and standards of §§99.01 through 99.11 of this chapter. The decision of the Board of Zoning Appeals is limited to the information that was available to the Administrative Review Team for the initial decision, including any materials included as part of the written record of the decision. Additional testimony is not appropriate.
- (3) If the Board of Zoning Appeals determines that the Administrative Review Team made an improper decision the Board may reverse or affirm, wholly or partly, or may modify the order, requirement, decision or determination appealed from, and may make an order, requirement, decision, or determination as ought to be made, and to that end shall have all the powers of the Administrative Review Team.
- (4) The findings of the Board of Zoning Appeals shall be based on and supported by substantial evidence contained in a Board Order, which shall be forwarded to the applicant within ten days following the final determination.
- (5) The decision of the Board of Zoning Appeals may be further appealed to City Council within ten days of the Board's decision.
- (6) City Council must determine whether to hear the appeal, in its sole discretion by a motion passed by a majority vote, no later than 21 days following the Clerk of City Council's receipt of the written notice of appeal, unless an extended time is agreed upon by the City Manager and the applicant.
- (7) City Council shall decide the appeal no later than 28 days following the date of Council's decision to hear the appeal, unless an extended time is otherwise agreed upon by the City Manager and the applicant. In considering the appeal, City Council may consider any evidence and may affirm, reverse, or otherwise modify the decision of the Board of Zoning Appeals or any other part of the application.

(F) *Concurrent application review.*

- (1) Applications for building permits, electrical permits, other applicable permits, and certificates of zoning plan approval associated with the building permit application process may be submitted with the application for administrative review and may be processed and reviewed concurrently with the administrative review application if desired by the applicant.
- (2) Review of the building permit applications and zoning approvals described in division (F)(1) of this section shall be subject to the statutory timing requirements that apply to building permit application reviews. Accordingly, the applicant should consider the nature and complexity of the request prior to submitting for concurrent review.
- (3) Requests for certificates of zoning plan approval and building permits for wireless facilities cannot be approved for zoning compliance until an affirmative record of determination of the Administrative Review Team and all other zoning approvals are obtained and attached to the appropriate building permit documents.

§99.07 CONDITIONAL USE REVIEW.

- (A) *Applications.* Applications for conditional use review for towers or antennas shall be reviewed by the Planning and Zoning Commission, as required by §99.05, subject to the procedures and requirements of §153.236 of this Code of Ordinances, except as modified in this section.
- (B) *Conditional use review considerations.* In addition to any standards for consideration of applications for conditional use review pursuant to §153.236 of this Code of Ordinances, the Planning and Zoning Commission shall consider the following factors in determining whether the application should be approved:
- (1) Compliance with the requirements of §§99.01 through 99.11 of this chapter;
 - (2) Height of the proposed tower or facility and its proximity to residential structures and residential districts;
 - (3) Nature of the potential for adverse effects on uses on adjacent and nearby properties;
 - (4) Relationship of surrounding topography to the view from nearby properties;
 - (5) Surrounding tree coverage and foliage and the ability to screen the facilities from the view of nearby properties;
 - (6) Design of the tower or facility, with particular regard to design characteristics that have the effect of reducing or eliminating visual obtrusiveness;
 - (7) Proposed ingress and egress for maintenance, safety, and prohibition of nuisances;
 - (8) Availability of suitable existing towers, other structures, or alternative technologies not requiring the use of towers or structures, with regard to the following:
 - (a) New towers shall be approved only when other preferable alternatives are not available. No new tower shall be permitted unless the applicant demonstrates to the reasonable satisfaction of the Commission that no existing tower, structure, or alternative technology is available to fill the communication requirements.
 - (b) An applicant shall submit required information for review by the Planning and Zoning Commission related to the availability of suitable existing towers, other structures, or alternative technology. Evidence submitted to demonstrate that no existing tower, structure, or alternative technology can accommodate the applicant's proposed antenna may consist of any of the following:
 1. No existing towers or other suitable structures are located within the specific geographic limits meeting the applicant's engineering requirements.
 2. Existing towers or structures either do not have sufficient height to meet the applicant's engineering requirements, or have insufficient structural strength to support the applicant's proposed antenna and related equipment.
 3. The applicant's proposed antenna would cause frequency interference with the antenna on the existing towers or structures, or the antenna on the existing towers or structures would cause interference with the applicant's proposed antenna.
 4. The fees, costs, or contractual provisions required by the owner in order to share or to adapt for sharing an existing tower or structure, are unreasonable. Costs that would exceed new tower development is an example of what may be presumed to be unreasonable.
 5. The applicant demonstrates that there are other limiting factors that render existing towers and structures unsuitable.
 6. The applicant demonstrates that an alternative technology that does not require the use of towers or structures, such as a DAS or CMN using multiple low-powered

transmitters/receivers attached to a wireline system, is unsuitable. Costs of alternative technology that exceed new tower or antenna development shall not be presumed to render the technology unsuitable, but may be considered as a factor in the decision.

7. The applicant provides documentation that other tower owners were contacted in writing demonstrating the above considerations.

(C) In granting a conditional use, the Planning and Zoning Commission may impose conditions to the extent necessary to minimize any adverse effect of the proposed tower or antenna support structure on adjoining properties or to meet the review considerations of this section.

(D) The findings and decision of the Planning and Zoning Commission shall be based on and supported by substantial evidence contained in a written record and record of action which shall be forwarded to the applicant within ten days following the decision. The decision of the Planning and Zoning Commission shall be final.

§99.08 ABANDONMENT OF WIRELESS COMMUNICATIONS FACILITIES.

(A) *Abandonment.*

(1) All providers utilizing wireless communications facilities shall notify the city in writing of the location and date that any tower facility located in the city whose use will be discontinued. If the use of the facility is discontinued for 180 days without notice from the owner/operator or the owner of the property, the City Manager may declare the facility to be abandoned (this excludes any dormancy period between construction and the initial use of the facility). The facility's owner/operator and property owner will receive written notice from the city and be instructed to either reactivate the facility's use within 180 days, or dismantle and remove the facility.

(2) If reactivation or dismantling does not occur as described in division (A)(1) above, the city will either remove or cause the facility and associated structures to be removed and assess the costs to the owner/operator and property owner. In the case of a multi-use tower or wireless communications facility, this provision does not become effective until all users cease use of the tower or facility. However, the city may cause the abandoned portions of systems on the multi-use tower or facility to be removed in accordance with this provision.

(B) Before initiating action to remove the facility, the city must provide the owner of the tower or wireless communications facility and the property owner 90 days written notice and an opportunity to be heard before the Board of Zoning Appeals to appeal the decision. After this notice has been provided, or following a determination by the Board of Zoning Appeals that the tower or facility has been abandoned, the city may take whatever action that is lawful to order the removal or demolition of the tower or facility and all appurtenances.

(C) If the removal is appealed, a public hearing will be held before the Board of Zoning Appeals following the 90-day notice required in division (B) of this section. All interested parties shall be allowed an opportunity to be heard at the public hearing.

(D) After a public hearing is requested by the tower or wireless communications facility owner and held pursuant to division (C) of this section, the Board of Zoning Appeals may

recommend that the City Manager order the removal or demolition of the tower. The city may require the tower or facility owner or former owner to pay for all expenses necessary to remove or demolish the tower or facility.

§99.09 NONCONFORMING TOWERS OR WIRELESS COMMUNICATION FACILITIES.

- (A) *Conforming use.* Wireless communication facilities that are constructed in accordance with the provisions of §§99.01 through 99.11 of this chapter shall be deemed conforming uses or structures, regardless of their date of construction. This shall be the case even when new facilities are added to a nonconforming installation, provided that any new facilities meet the requirements of §§99.01 through 99.11 of this chapter.
- (B) *Existing towers.* Towers already in existence shall be allowed to continue their use as they exist as of the date of the adoption or amendment of §§99.01 through 99.11 of this chapter. Routine maintenance (including replacement with a new tower of like construction and height serving the same purpose) shall be permitted. A replacement tower must be constructed within 180 days of removal of the initial facility unless the owner demonstrates that meeting this requirement is not possible due to conditions not reasonably within their control. The Director may permit new construction and/or equipment replacement, other than routine maintenance on an existing tower, provided it complies with the requirements of this chapter and applicable requirements of Chapter 153 of this Code of Ordinances to the extent that existing conditions permit.
- (C) *Damaged or destroyed nonconforming wireless communications facilities.* Notwithstanding this section, nonconforming wireless communications facilities that are damaged or destroyed by actions outside the owner's control may be rebuilt without having to first obtain administrative review or a conditional use approval. Any other permits applicable to construction or reconstruction must be obtained. The type, height, and location of the wireless communications facility shall be the same as the original approved facility and constructed in accordance with currently applicable building codes. Permits for construction shall be obtained within 180 days from the date the facility is damaged or destroyed, and reconstruction shall be started within six months from the time of damage and shall be continued until completed. If no permit for construction is obtained, or if an issued permit expires, the facility shall be deemed abandoned as specified in § 99.08.

§99.10 TEMPORARY WIRELESS COMMUNICATIONS FACILITIES.

- (A) *General.* Temporary wireless communications facilities may be approved as provided for in §§99.01 through 99.11 of this chapter to:
- (1) Allow communications providers to administer limited frequency and modulation testing to evaluate system performance and the need for additional wireless communications facility sites. Any approval shall not exceed 30 days.
 - (2) Allow communications providers to supplement communications coverage when a previously permitted wireless communications facility has become involuntarily non-operational through an accident or force majeure. Any approval shall not exceed 30 days.

- (3) Address a substantial increase in the communications needs of the businesses, residents, and visitors of the city for a limited period of time in circumstances where an emergency has been declared by the city, state or federal government. The approval shall not extend beyond the time of the declared emergency.
- (4) Address a substantial increase in the communications needs of the businesses, residents, and visitors of the city for a limited period of time in circumstances when large conferences or special events are held within the city limits. The approval shall not exceed 14 days.
- (5) Allow providers to maintain uninterrupted wireless communication service through the use of temporary wireless facilities during extended periods of time due to substantial maintenance or capital projects undertaken or caused by the city. The approval shall not exceed the duration agreed to by the city and the affected wireless provider(s).
- (6) Allow providers to maintain uninterrupted wireless communication service resulting from what the Director determines to be unforeseen circumstances and/or needs for temporary alternative wireless communication facilities. The approval shall not exceed the duration agreed to by the city and the affected wireless provider(s).
- (7) The Director may permit one extension equal to the time periods permitted above, provided the extension is requested in writing prior to the expiration of the original approval period. Extensions may be granted provided the Director finds that the extension is reasonably necessary to resolve or accommodate the reasons for the original approval.

(B) *Application and approval.*

- (1) Due to the emergency nature often associated with temporary wireless facilities, authority to locate a temporary wireless communications facility in the city will be subject to the approval of the Director after review by any other members of the Administrative Review Team that the Director deems necessary following receipt of a completed application for a temporary wireless communications facility.
- (2) A temporary wireless communications facility may only be approved by the city for the limited purposes and time periods described in division (A) of this section.
- (3) Except as authorized by the Director during declared emergencies, all approved temporary wireless communications facilities shall:
 - (a) Be limited in height by the requirements of the zoning district in which the site is located. The Director may permit a greater height if the height is required for the function of the temporary wireless communications facility and no other reasonable alternative exists.
 - (b) Be set back a minimum of 100 feet from any adjoining or adjacent property line, as measured from the nearest part of the facility and/or any associated equipment. The Director may permit a lesser setback if the location is required for the function of the temporary wireless communications facility and no other reasonable alternative location exists.
 - (c) Minimize the visual impact of ground equipment to adjoining or adjacent properties.
 - (d) Provide temporary screening as may be required by the Director, such as available natural land formations, plant materials, and natural foliage to effectively screen from view as much of the temporary wireless communications facility as reasonably possible.

- (e) Only commence installation at the approved site 48 hours before actual site use may begin.
 - (f) Be completely removed from the approved site with all site restoration finalized and returned to previously existing conditions within 48 hours following the required termination deadline or extension.
 - (g) Not use an electric, gas, or other type of generator that causes or permits any noise to emanate from it in a manner, intensity, and/or duration to create unreasonable noise or sound audible from a distance of 50 feet, and causes inconvenience and annoyance to persons of ordinary sensibilities.
 - (h) Not be illuminated unless otherwise required by the FCC or the FAA.
 - (i) Be required to comply with the applicable provisions of § 99.05(C)(3) and all applicable federal, state or local laws.
- (4) Applications for the location of a temporary wireless communications facility shall include the following, unless deemed unnecessary by the Director:
- (a) A statement of authorization from the owner of the real property upon which the temporary wireless communications facility is proposed to be located that authorizes the location of the temporary wireless communications facility.
 - (b) A list of all property owners and registered homeowners associations and their addresses within 150 feet of the proposed temporary wireless communications facility site. The city may require the applicant to provide adjacent property owners with a descriptive notice of the proposed temporary wireless communications facility, site plan, and the anticipated dates of operation.
 - (c) A description of the proposed facility and all associated equipment, including structural design, proposed height, color, location, fencing and/or screening, and approximate setback from property lines.
 - (d) Typical elevations or photographs indicating the general appearance of the temporary facility.
 - (e) A site plan or aerial photo generally indicating the location and setbacks of the temporary facility.
 - (f) Any other information that the Director may deem reasonably necessary to adequately evaluate the request.

§99.11 ARCHITECTURAL REVIEW.

- (A) *Applications.* Applications requiring architectural review for wireless communication facilities shall be reviewed by the Architectural Review Board as required by § 99.05 subject to the procedures and requirements of §§ 153.066(F)(6) and 153.173 of this Code of Ordinances as applicable, except as modified in this section.
- (B) *General review considerations.* The Board shall determine whether the request will be appropriate to the preservation of the historic and architectural character of the District or of the historic property pursuant to the criteria specified in this section. Every reasonable effort shall be made to ensure that the use of the property will involve minimal alteration of existing buildings, structures, or sites and its environment.

(C) *Architectural review criteria.* In addition to any standards for consideration of applications to the Architectural Review Board pursuant to §§ 153.066(F)(6) and 153.174 of this Code of Ordinances, the Board shall consider the following factors in determining whether the wireless communications facility application should be approved:

- (1) Compliance with the requirements of §99.05(C);
- (2) Height of the proposed tower and its proximity to residential structures and residential districts within their jurisdiction;
- (3) Nature of uses on adjacent and nearby properties;
- (4) Design of the wireless communications facility, with particular regard to design characteristics that have the effect of eliminating visual obtrusiveness while demonstrating substantial consistency with the historical and architectural character of the area;
- (5) Proposed ingress and egress;
- (6) Ability to screen or eliminate from view all associated equipment and service structures from adjacent properties and public rights-of-way.
- (7) Availability of suitable existing towers, other structures, or alternative technologies not requiring the use of towers or structures. New facilities shall be approved only when other preferable alternatives are not available. No new facilities shall be permitted unless the applicant demonstrates to the reasonable satisfaction of the Architectural Review Board that no existing tower, structure, or alternative technology is reasonably available to fill the communication requirements.
 - (a) An applicant shall submit information to the Architectural Review Board related to the availability of suitable existing towers, other structures, or alternative technology. Evidence submitted to demonstrate that no existing tower, structure or alternative technology can accommodate the applicant's proposed antenna may consist of any of the following:
 1. No existing towers or other suitable structures are located within the specific geographic limits which meet the applicant's engineering requirements.
 2. Existing towers or structures either do not have sufficient height to meet the applicant's engineering requirements, or have insufficient structural strength to support the applicant's proposed antenna and related equipment.
 3. The applicant's proposed antenna would cause frequency interference with the antenna on the existing towers or structures, or the antenna on the existing towers or structures would cause interference with the applicant's proposed antenna.
 4. The fees, costs, or contractual provisions required by the owner in order to share or to adapt for sharing an existing tower or structure are unreasonable. Costs exceeding new tower development are presumed to be unreasonable.
 5. The applicant demonstrates that there are other limiting factors that render existing towers and structures unsuitable.
 6. The applicant demonstrates that an alternative technology that does not require the use of towers or structures, such as a distributed antenna system or cable microcell network using multiple low-powered transmitters/receivers attached to a wireline system, is unsuitable. Costs of alternative technology that exceed new tower or antenna development shall not be presumed to render the technology unsuitable, but may be considered as a factor in the decision.
 7. The applicant provides documentation that other tower owners were contacted in writing demonstrating the above considerations.

- (D) The Architectural Review Board may impose conditions to the extent that it concludes that conditions are necessary to substantially camouflage the proposed structure and/or minimize any adverse effect of the tower on the historical nature of the site and/or adjoining properties, and/or to meet the review considerations of §§99.01 through 99.11 of this chapter.
- (E) The findings and decision of the Architectural Review Board shall be based on and supported by substantial evidence contained in a Board Order which shall be forwarded to the applicant within ten days following the decision. Any applicant aggrieved by a decision of the Board may appeal the decision to the Board of Zoning Appeals in accordance with the provisions of § 153.180 of this Code of Ordinances.

**SMALL CELL FACILITIES AND WIRELESS SUPPORT STRUCTURES WITHIN THE
RIGHT-OF-WAY*****

§99.20 PURPOSE AND INTENT

- (A) The purpose of §§99.20 through 99.29 of this chapter is to establish general procedures and standards, consistent with all applicable federal, state, and local laws, for the siting, construction, installation, collocation, modification, operation, and removal of small cell facilities and wireless support structures in the right-of-way.
- (B) The intent of §§99.20 through 99.29 of this chapter is to:
- (1) Establish basic criteria for applications to locate small cell facilities and wireless support structures in the right-of-way and authorize the City Manager or his or her designee to develop, publish, and from time to time amend applications and other associated materials to provide clear guidance to applicants;
 - (2) Ensure that small cell facilities and wireless support structures are carefully designed, constructed, modified, maintained, and removed when no longer in use in conformance with all applicable health and safety regulations;
 - (3) Preserve the character of the City of Dublin by minimizing the potentially adverse visual impact of small cell facilities and wireless support structures through careful design, siting, landscaping and camouflaging techniques to blend these facilities into their environment to the maximum extent practicable;
 - (4) Enhance the ability of wireless service providers to deploy small cell facilities and wireless support structures in the city quickly, effectively, and efficiently so that residents, businesses, and visitors benefit from ubiquitous and robust wireless service availability;
 - (5) Establish an application process and structure for payment of fees and charges to be uniformly applied to all applicants, operators and owners of small cell facilities and wireless support structures for such facilities;

*Note: All language of proposed Sections 99.20 through 99.29 would be new Code language. Therefore, to assist readability, none of it is underlined or highlighted.

- (6) Comply with, and not conflict with or preempt, all applicable state and federal laws, including without limitation Section 101(a) and Section 704 of the Telecommunications Act, Pub. L. 104-104, 101 Stats. 56, 70 (Feb. 8, 1996) (codified as 47 U.S.C. §§ 253(a), 332(c)(7)), as may be amended or superseded, and Section 6409(a) of the Middle Class Tax Relief and Job Creation Act, Pub. L. 112-96, 126 Stat. 156 (Feb. 22, 2012) (codified as 47 U.S.C. § 1455(a)), as may be amended or superseded, and all FCC rules and regulations to interpret and implement applicable federal statutes.

§99.21 APPLICABILITY

(A) Subject to the Ohio Revised Code and approval of an application under §§99.20 through 99.29 of this chapter, an operator may collocate a small cell facility and construct, maintain, modify, operate, or replace wireless support structures in, along, across, upon, and under the city right-of-way.

- (1) An operator shall comply with generally applicable standards that are consistent with Chapter 98 and §§99.20 through 99.29 of this chapter and any rules, regulations, and design guidelines adopted by the city for the collocation of a small cell facility and construction, maintenance, modification, operation, or replacement of wireless support structures in, along, across, upon, and under the city right-of-way, unless otherwise prohibited by state or federal law..
- (2) All wireless support structures and small cell facilities shall be constructed and maintained so as not to impede or impair public safety or the legal use of the right-of-way by the city, the traveling public, or other public utilities.

Exclusions.

- (3) Amateur radio facilities. This chapter shall not govern the installation of any amateur radio facility that is owned or operated by a federally licensed amateur radio station operator or is used exclusively for receive-only antennas.
 - (4) Certain over-the-air receiving devices (OTARD). This chapter shall not govern the installation of any OTARD antennas covered under FCC regulations codified in 47 C.F.R. §1.4000 et seq., as may be amended or superseded. OTARD antennas include, without limitation, direct-to-home satellite dish antennas less than one meter in diameter, television antennas and wireless cable antennas.
 - (5) Handsets and user equipment. This chapter shall not govern the use of personal wireless devices (e.g., cell phones) or other consumer-grade mobile user equipment used in the right-of-way.
- (B) The permitting procedures and authorizations set forth herein in §§99.20 through 99.29 shall apply only to small cell facilities and wireless support structures in the right-of-way, and do not authorize the construction and operation of a wireline backhaul facility, which continues to be governed by Chapter 98: Right-of-Way Management of the Code.
- (C) Relationship to other chapters. This chapter shall supersede all conflicting requirements of other titles and chapters of this Code regarding the locating and permitting of small cell facilities and wireless support structures in the right-of-way.

(D) Nothing in this chapter precludes the city from applying its generally applicable health, safety, and welfare regulations when granting consent for a small cell facility or wireless support structure in the city right-of-way.

§99.22 DEFINITIONS

(A) General use of terms.

- (1) The terms, phrases, words, and their derivations used in §§99.20 through 99.29 shall have the meanings given in this section.
- (2) When consistent with the context, words used in the present tense also include the future tense; words in the plural number include the singular number; and words in the singular number include the plural number.
- (3) All terms used in the definition of any other term shall have their meaning as otherwise defined in this section.
- (4) The words "shall" and "will" are mandatory and "may" is permissive.
- (5) Words not defined shall be given their common and ordinary meaning.

(B) Defined terms.

ABANDONED. Any small cell facilities or wireless support structures that are unused for a period of three hundred sixty-five days without the operator otherwise notifying the city and receiving the city's approval.

AFFILIATE. When used in relation to any person, means another person who owns or controls, is owned or controlled by, or is under common ownership or control with, such person.

AGENT. A person that provides the city written authorization to work on behalf of a public utility.

ANTENNA. Communications equipment that transmits or receives radio frequency signals in the provision of wireless service.

APPLICANT. Any person that submits an application to the city to site, install, construct, collocate, modify, and/or operate a small cell facility or wireless support structure in the right-of-way according to the requirements of §§99.20 through 99.29 of this chapter.

CABLE OPERATOR. Any person or group of persons:

- (1) who provides cable service over a cable system and directly or through one or more affiliates owns a significant interest in such cable system, or
- (2) who otherwise controls or is responsible for, through any arrangement, the management and operation of such a cable system;

CABLE SERVICE.

- (1) The one-way transmission to subscribers of (i) video programming, or (ii) other programming service; and
- (2) Subscriber interaction, if any, which is required for the selection of such video programming or other programming service.

CABLE FRANCHISE. An initial authorization, or renewal thereof (including a renewal of an authorization which has been granted subject to 47 U.S.C. 522 Section 546), issued by a franchising authority, whether such authorization is designated as a franchise, permit, license, resolution, contract, certificate, agreement, or otherwise, which authorizes the construction or operation of a cable system.

CLEAR ZONE. The unobstructed, traversable area provided beyond the edge of the through traveled way for the recovery of errant vehicles. The clear zone includes shoulders, bike lanes, and auxiliary lanes, except those auxiliary lanes that function like through lanes. As defined in the ODOT Location and Design Manual, Volume 1, Section 600—Roadside Design.

COLLOCATION or COLLOCATE. To install, mount, maintain, modify, operate, or replace wireless small cell facilities on a wireless support structure.

DECORATIVE POLE. A pole, arch, or structure other than a street light pole placed in the public way specifically designed and placed for aesthetic purposes and on which no appurtenances or attachments have been placed except for any of the following:

- (1) Electric lighting;
- (2) Specially designed informational or directional signage;
- (3) Temporary holiday or special event attachments.

DESIGN GUIDELINES. Means those detailed design guidelines, specifications and examples promulgated by the City Manager for the design and installation of small cell facilities and wireless support structures, which are effective insofar as they do not conflict with federal and state law, rule and regulations.

ELIGIBLE FACILITIES REQUEST. Means the same as defined by the FCC in 47 U.S.C. 1455 (a)(2), as may be amended, which defines that term as any request for modification of an existing support structure that does not substantially change the physical dimensions of such support structure, involving:

- (1) Collocation of new small cell facilities;
- (2) Removal of small cell facilities; or
- (3) Replacement of small cell facilities.

FRANCHISE AUTHORITY. See **CABLE FRANCHISE.**

FCC. The U.S. Federal Communications Commission and any legally appointed, designated, or elected agent or successor.

HISTORIC DISTRICT. A building, property, or site, or group of buildings, properties, or sites that are either of the following:

- (1) Listed in the national register of historic places or formally determined eligible for listing by the keeper of the national register, the individual who has been delegated the authority by the federal agency to list properties and determine their eligibility for the national register, in accordance with section VI.D.1.a.i-v of the nationwide programmatic agreement codified at 47 C.F.R. part 1, Appendix C;
- (2) A registered historic district as defined in section 149.311 of the Revised Code.

Generally, the portion of the Architectural Review District referred to as Historic Dublin, and as defined by §153.170.

MICRO WIRELESS FACILITY. A small cell facility that is not more than twenty-four inches in length, fifteen inches in width, and twelve inches in height and that does not have an exterior antenna more than eleven inches in length suspended on cable strung between wireless support structures.

OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES or OMUTCD. The uniform system of traffic control devices promulgated by the Ohio Department of Transportation.

OCCUPY OR USE. With respect to the right-of-way, to place a tangible thing in the right-of-way for any purpose, including, but not limited to, constructing, repairing, positioning, maintaining, or operating lines, poles, pipes, conduits, ducts, equipment, or other structures, appurtenances, or facilities necessary for the delivery of public utility services or any services provided by a cable operator.

OPERATOR. A wireless service provider, cable operator, or a video service provider that operates a small cell facility and provides wireless service. For the purpose of §§99.20 through 99.29, “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(20), and services that are fixed in nature or use unlicensed spectrum.

PERSON. Any natural person, corporation, or partnership and also includes any governmental entity.

PUBLIC UTILITY or UTILITY. A facilities-based provider of wireless service to one or more end users in this state, or any company described in section 4905.03 of the Ohio Revised Code and as further defined in section 4905.02 of the Ohio Revised Code, including but not limited to the following types of companies: telephone, electric light, gas, natural gas, pipe-lines, water-works, and sewage disposal systems.

RIGHT-OF-WAY. The surface of and the space above and below the paved or unpaved portions of any public street, public road, public highway, public freeway, public lane, public path, public bikepath, public way, public alley, public court, public sidewalk, public boulevard, public parkway, public drive and any other land dedicated or otherwise designated for the same now or hereafter held by the city which shall, within its proper use and meaning in the sole opinion of the City Manager, entitle a permittee, in accordance with the terms hereof and of any right-of-way permit, to the use thereof for the purpose of installing or operating any poles, wires, cables, transformers, conductors, ducts, lines, mains, conduits, vaults, manholes, amplifiers, appliances, attachments or other property or facilities as may be ordinarily necessary and pertinent to the provision of utility, cable television, communications or other services as set forth in any service agreement or any right-of-way permit. **RIGHT-OF-WAY** shall not include private easements or public property, except to the extent the use or occupation of public property is specifically granted in a right-of-way permit or by administrative regulation.

RIGHT OF WAY PERMIT, GENERAL. A permit issued by the City as required by Chapter 98 of the Code that must be obtained in order to perform any work in, on, above, within, over, below, under, or through any part of the public right-of-way, including, but not limited to, the act or process of digging, boring, tunneling, trenching, excavating, obstructing, or installing, as well as the act of opening and cutting into the surface of any paved, improved, or unimproved surface that is part of the right-of-way.

RIGHT OF WAY PERMIT, SMALL CELL. Means a permit issued by the City under the Special Right-of-Way Permit provisions of §98.03(B)(2) for the collocation, construction, maintenance, operation, or replacement of small cell facility(ies) and/or wireless support structures in, along, across, upon and under the right-of-way.

SMALL CELL FACILITY. A wireless facility that meets both of the following requirements:

- (3) 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.
- (4) All other wireless equipment associated with the facility is cumulatively not more than twenty-eight 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.

SUBSTANTIAL CHANGE: Has the same meaning as described in 47 C.F.R. §1.40001(b)(7), a modification substantially changes the physical dimensions of an eligible support structure if it meets any of the following criteria:

- (1) For towers in the public rights-of-way and base stations, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than 10% larger in height or overall volume than any other ground cabinets associated with the structure;
- (2) It entails any excavation or deployment outside the current site;
- (3) It would defeat the concealment elements of the eligible support structure; or
- (4) It does not comply with conditions associated with the siting approval of the construction or modification of the eligible support structure or base station equipment, provided however that this limitation does not apply to any modification that is non-compliant only in a manner that would not exceed the thresholds identified in 47 C.F.R. § 1.40001(b)(7)(i) through (iv).

TOLLING or TOLL PERIOD. The pausing or delaying of the running of a required time period.

UTILITY POLE. 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.

VIDEO SERVICE PROVIDER. A person granted a video service authorization under sections 1332.21 to 1332.34 of the Ohio Revised Code.

WIRELESS FACILITY.

- (1) Equipment at a fixed location that enables wireless communications between user equipment and a communications network, including all of the following:
 - (a) Equipment associated with wireless communications;
 - (b) Radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supplies, and comparable equipment, regardless of technological configuration.
- (2) The term includes small cell facilities.
- (3) The term does not include any of the following:
 - (a) The structure or improvements on, under, or within which the equipment is collocated;

- (b) Coaxial or fiber-optic cable that is between wireless support structures or utility poles or that is otherwise not immediately adjacent to or directly associated with a particular antenna.

WIRELESS SERVICE. Any services using licensed or unlicensed wireless spectrum, whether at a fixed location or mobile, provided to the public using wireless facilities.

WIRELESS SERVICE PROVIDER. A person who provides wireless service as defined herein.

WIRELESS SUPPORT STRUCTURE. A pole, street light pole, traffic signal pole, a fifteen-foot or taller sign pole, or utility pole capable of supporting small cell facilities, excluding utility poles or other facilities used to supply traction power to public transit systems, including railways, trams, streetcars, and trolleybuses.

WIRELINE BACKHAUL FACILITY. A facility used for the transport of communications service or any other electronic communications by coaxial, fiber-optic cable, or any other wire.

§99.23 APPLICATION REQUIRED

(A) *General Requirements.* The following requirements shall apply to all small cell facilities and wireless support structures proposed within the right-of-way.

- (1) No person shall occupy or use the right-of-way except in accordance with law.
- (2) In occupying or using the right-of-way, no person shall unreasonably compromise the public health, safety, and welfare.
- (3) No person shall occupy or use the right-of-way without first obtaining, under this chapter, Chapter 98, or section 1332.24 or 4939.031 of the Ohio Revised Code, any requisite consent of the city. Before placing small cell facilities or wireless support structures in the right-of-way, an operator must apply for and receive a general right-of-way permit under sections 98.03 and 98.04(C). If the operator's sole activities in the right-of-way will consist solely of collocating small cell facilities, constructing, modifying, or replacing new wireless support structures and associated small cell facilities, removing such facilities, or eligible facilities requests, then the operator shall not be required to pay the annual fee for general right-of-way permittees provided in section 98.07. This provision shall not be construed to waive application fees or any other construction or work permit necessary for work in the City.

(B) *Pre-Application Conference.*

- (1) *Purpose.* Applicants are strongly encouraged to contact the city and request a pre-application conference. This meeting will provide an opportunity for early coordination regarding proposed small cell facilities and wireless support structure locations, design, and the application submittal, and the approval process in order to avoid any potential delays in the processing of an application and deployment of small cell facilities and wireless support structures in the city.
- (2) *Appointment Required.* An appointment is required for all pre-application conferences. Applicants must contact the designated city staff member as noted on the application form, who will provide applicants an appointment with all applicable city representatives in a timely manner.

- (C) *Application Required.* In accordance with federal and state law and the city code, an operator may apply to the city to collocate a small cell facility on an existing wireless support structure and to construct, maintain, modify, operate, or replace wireless support structures in, along, across, upon, and under the city rights-of-way. Anyone seeking to collocate a small cell facility on an existing wireless support structure and/ or to construct, maintain, modify, operate, or replace wireless support structures in, along, across, upon, and under the city rights-of-way shall first duly file a written application with the city, in accordance with the requirements in this section and additional requirements set forth in the Design Guidelines as modified from time to time by the City Manager.
- (D) *Required Application Materials.* Unless otherwise required by state or federal law, all applicants shall submit to the city materials and information associated with each application as outlined in the Design Guidelines in order for the application to be considered complete.

§99.24 APPLICATION REVIEW TIMEFRAMES AND PROCESS

(A) *Permit Application Review Timeframes.*

- (1) *Collocation of Small Cell Facilities on Existing Wireless Support Structures.* The city shall grant or deny its consent for requests to collocate, or to replace or modify a small cell facility on, or associated with, an existing wireless support structure not later than ninety days after the date of filing by an entity of a completed application.
- (2) *New Wireless Support Structures and Associated Small Cell Facilities.* The city shall grant or deny its consent for requests to construct, modify, or replace a wireless support structure associated with a small cell facility within the right-of-way not later than one hundred twenty days after the date of filing by an entity of a completed application.
- (3) *Wireless Support Structure and/or Small Cell Facilities Removal.* The city shall grant or deny its consent for requests to remove wireless support structures associated with small cell facilities from the right-of-way typical to the review timeframes for the General Right-of-Way Permit required for this activity.
- (4) *Eligible Facilities Request.* The city shall approve Eligible Facilities Requests in accordance with Ohio Revised Code Chapter 4939, 47 C.F.R. §1.40001, and §§99.20 through 99.29 herein not later than sixty days after the date of filing by an entity of a submitted application.

(B) *Failure to grant or deny within prescribed timeframes.* If the city fails to approve or deny a request for consent under this section or a request for a relevant work permit within the timeframes required under §99.24(A), provided the time period is not tolled under §99.24(D) or extended with the written consent of the applicant and the Director, the request shall be deemed granted upon the requesting entity providing notice to the city that the time period for acting on the request has lapsed.

(C) *Application denials.*

- (1) The city shall not unreasonably withhold or deny consent for small cell facilities and wireless support structures within the right-of-way.
- (2) If a request for consent is denied, the city shall provide in writing its reasons for denying the request, supported by substantial, competent evidence, and such information as the applicant may

reasonably request to obtain consent. The denial of consent shall not unreasonably discriminate against the entity requesting the consent.

- (3) Except in the case of a public utility subject to the jurisdiction and recognized on the rolls of the public utilities commission or of a cable operator possessing a valid franchise awarded pursuant to the "Cable Communications Policy Act of 1984," 98 Stat. 2779, 47 U.S.C.A. 541, the city, for good cause shown, may withhold, deny, or delay its consent to any person based upon the person's failure to possess the financial, technical, and managerial resources necessary to protect the public health, safety, and welfare.

(D) *Tolling of required timeframes.*

- (1) The time periods required in §99.24(A) may be tolled only:

- (a) By mutual agreement between the entity requesting consent and the city;
- (b) In cases where the city determines that the application is incomplete; or
- (c) If the number of requests for consent for small cell facilities or wireless support structures received is likely to result in difficulty processing applications within the time limits set forth in §99.24(A) due to the lack of resources of the city, then the city may toll the time limits as follows:

- 1. The time period may be tolled for up to twenty-one days for the first fifteen small cell facility or wireless support structure requests received by the city above the thresholds provided in the Table below within any consecutive thirty-day period:

Population of city at time Small Cell Facility or Wireless Support Structure Applications are received:	Number of Applications:
30,000 persons or less	15 applications or more
30,001 to 40,000 persons	20 applications or more
40,001 to 50,000 persons	25 applications or more
50,001 to 60,000 persons	30 applications or more
60,001 to 100,000 persons	60 applications or more

- 2. Further, for every additional fifteen requests that the city receives above the thresholds provided in the Table above the city may toll the time period for those requests for up to fifteen days in addition to the time period provided in division (1)(c)(1) of this section.
- 3. In no instance shall the city toll the time period for any small cell facility or wireless support structure request by more than ninety consecutive days. Upon request, the city shall provide an operator written notice of the time limit for a small cell facility or wireless support structure request.

- (2) To toll the time period for incompleteness, the city shall provide written notice to the person requesting consent not later than thirty days after receiving the request, clearly and specifically delineating all missing documents or information. The missing documents or information shall be reasonably related to determining whether the request meets the requirements of applicable federal and state law. Any notice of incompleteness requiring other information or

documentation, including information of the type described in section 4939.0313 of the Ohio Revised Code or documentation intended to illustrate the need for the request or to justify the business decision for the request, in accordance with state and federal law, does not toll the time period for incompleteness.

- (3) The time period for granting or denying consent resumes when the entity makes a supplemental submission in response to the city's notice of incompleteness.
- (4) If a supplemental submission is inadequate, the city shall notify the entity not later than ten days after receiving the supplemental submission that the supplemental submission did not provide the information identified in the original notice that delineated missing documents or information. The time period may be tolled in the case of second or subsequent notices under the procedures identified in divisions (1) to (3) of this section. Second or subsequent notices of incompleteness may not specify missing documents or information that was not delineated in the original notice of incompleteness.

(E) *Consolidated application for multiple small cell facilities and/or wireless support structures.*

- (1) Applicants seeking to construct, modify, collocate, or replace more than one small cell facility or more than one wireless support structure may file, at the applicant's discretion, a consolidated application for up to 30 small cell facility requests or up to 30 wireless support structure requests in a single application and receive a single permit for the construction, modification, collocation, or replacement of the small cell facilities or wireless support structures subject to the following:
 - (a) This single application may be filed for multiple small cell facilities or multiple wireless support structures only if they are of substantially the same type.
 - (b) The city may separately address small cell facility collocations or wireless support structures for which incomplete information has been received or which are denied.
- (2) In the case of a consolidated application, the fees provided for in section 4939.0316 of the Ohio Revised Code and §99.23 may be cumulative. However, the city, at its discretion may opt to reduce such fees in order to encourage consolidated application submittals.
- (3) In the case of a consolidated application, each small cell facility or wireless support structure proposed to be constructed, modified, collocated on, or replaced shall constitute a separate request for consent for purposes of tolling the response deadline as authorized under section 4939.036 of the Ohio Revised Code. A request by a single operator for a new or replacement support structure and associated small cell facility constitutes one request.

(F) *Timeframe for completion of permit.*

- (1) Permits granted for collocations of small cell facilities on existing wireless support structures, new wireless support structures and/or associated small cell facilities shall be completed by the operator or its agent within one hundred eighty days after issuance of the permit, unless:
 - (a) The city and the operator agree to extend this period; or

- (b) A delay is caused by make-ready work for a city-owned wireless support structure or decorative pole or by the lack of commercial power or backhaul availability at the site, provided that:
 - 1. The operator has made a timely request within sixty days after the issuance of the permit for commercial power or backhaul services; and
 - 2. The additional time to complete installation does not exceed three hundred sixty days after issuance of the permit.

(2) If divisions (1)(a) and (b) of this section cannot be met, the permit shall be void unless the city grants an extension in writing to the operator.

(G) Small Cell Facility and Wireless Support Structure activities not requiring consent.

- (1) City consent shall not be required for either of the following activities conducted in the right-of-way:
 - (a) Routine maintenance of wireless facilities;
 - (b) The replacement of wireless facilities with wireless facilities that are consistent with the city's current design requirements and guidelines and that are either:
 - 1. Substantially similar to the existing wireless facilities; or
 - 2. The same size or smaller than the existing wireless facilities.
- (2) The city may require a General Right-of-Way Permit for any activity described in division (1) of this section and for any activity for which consent is authorized herein and in accordance with state and federal law.

§99.25 DESIGN GUIDELINES

- (A) The City Manager shall promulgate detailed Design Guidelines with objective, technically feasible criteria applied in a non-discriminatory manner that reasonably match the aesthetics and character of the immediate area regarding all of the following, which the city shall consider in reviewing an application:
 - (1) The location of any ground-mounted small cell facilities;
 - (2) The location of a small cell facility on a wireless support structure;
 - (3) The appearance and concealment of small cell facilities, including those relating to materials used for arranging, screening, and landscaping;
 - (4) The design and appearance of a wireless support structure.
- (B) The Design Guidelines shall provide examples of small cell facilities preferences including visual depictions.

- (C) The provisions in this section shall not limit or prohibit the City Manager’s discretion to promulgate and make publicly available other information, materials or requirements in addition to, and separate from, Design Guidelines so long as the information, materials, or requirements do not conflict with state or federal law.
- (D) The City Manager shall have authority to update or supplement the Design Guidelines to address relevant changes in law, technology, or administrative processes. In the event of any conflict between the Design Guidelines and the standards articulated in §§99.20 through 99.29 of this chapter of the City of Dublin Code of Ordinances, the language of §§99.20 through 99.29 shall take precedence over the language of the Design Guidelines.

§99.26 STANDARD CONDITIONS OF PERMIT APPROVAL

- (A) *Standard conditions of approval.* Permission to site small cell facilities and wireless support structures in the right-of-way shall be conditioned on compliance with the standard conditions of approval provided in this §99.26. The City Manager or his or her designee may add or modify conditions of approval as necessary or appropriate to protect and promote the public health, safety, and welfare.
- (B) *Small Cell Facility Permit duration.* The city’s approval term of an attachment to a wireless support structure shall be for a period of not less than ten years, with presumption of renewal for successive five-year terms, subject to terms providing for early termination or nonrenewal for cause or by mutual agreement and unless otherwise agreed to by both the operator and the city, except for generally applied permitting to safeguard the public health, safety, and welfare. An operator may remove its small cell facilities at any time subject to applicable permit requirements and may stop paying annual charges or fees under §99.26(N).
- (C) *Compliance with all applicable laws.*
 - (1) Permittee shall at all times maintain compliance with all applicable federal, state and local laws, regulations, ordinances, or other rules.
 - (2) If state or federal standards and regulations are amended, the owners of the small cell facilities and/or wireless support structures governed by this chapter shall bring any facilities and/or structures into compliance with the revised standards and regulations within six months of the effective date of the standards and regulations, unless a different compliance schedule is mandated by the regulating agency. Failure to bring small cell facilities and/or wireless support structures into compliance with any revised standards and regulations shall constitute grounds for removal at the owner's expense.
- (D) *Inspections; emergencies.* The city or its designee may inspect small cell facilities and wireless support structures in the right-of-way upon reasonable notice to the permittee. The permittee shall cooperate with all inspections. The city reserves the right to support, repair, disable, or remove any elements of the facility in emergencies or when the facility threatens imminent harm to persons or property.
- (E) *Relocation or adjustment as requested by city.* If requested by the city, in order to accomplish construction and maintenance activities directly related to improvements for the health, safety, and welfare of the public, an operator shall relocate or adjust its facilities within the right-of-way at no

cost to the city, as long as such request similarly binds all users in or on such public way. Such relocation or adjustment shall be completed in accordance with law.

- (F) *Contact information for responsible parties.* Permittee shall at all times maintain accurate contact information for all parties responsible for the facility, which shall include a phone number, street mailing address, and email address for at least one natural person. All such contact information for responsible parties shall be provided to the Department of Public Works.
- (G) *Indemnification.* Any operator who owns or operates small cell facilities or wireless support structures in the right-of-way shall indemnify, protect, defend, and hold the city and its elected officials, officers, employees, agents, and volunteers harmless against any and all claims, lawsuits, judgments, costs, liens, losses, expenses, fees to include reasonable attorney fees and costs of defense, proceedings, actions, demands, causes of action, liability and suits of any kind and nature, including personal or bodily injury or death, property damage or other harm for which recovery of damages is sought, to the extent that it is caused by the negligence of the operator who owns or operates small cell facilities and wireless service in the right-of-way, any agent, officer, director, representative, employee, affiliate, or subcontractor of the operator, or their respective officers, agents, employees, directors, or representatives while installing, repairing, or maintaining facilities in the right-of-way.
- (H) *Interference with public safety radio services.* In the event that the city has reason to believe that permittee's radio communications operations are causing interference with the city's public safety radio communications operations, then the permittee shall, at its cost, immediately cooperate with the city to either rule out permittee as the interference source or eliminate the interference. Cooperation with the city may include, but shall not be limited to, temporarily switching the small cell facilities on and off for testing.
- (I) *Adverse physical impacts on adjacent properties.* Permittee shall undertake all reasonable efforts to avoid undue adverse physical impacts to adjacent properties and/or uses that may arise from the construction, operation, maintenance, modification, or removal of the small cell facility and/or wireless support structure.
- (J) *Good condition required.* Small cell facilities and support structures shall at all times be kept and maintained in good condition, order, and repair by qualified maintenance and construction personnel, so that the same shall not menace or endanger the health, safety or welfare of any person or property.
- (K) *Graffiti abatement.* Permittee shall remove any graffiti on the small cell facility at permittee's sole expense.
- (L) *RF exposure compliance.* All facilities must comply with all standards and regulations of the FCC and any other state or federal government agency with the authority to regulate RF exposure standards.
- (M) *Relocation for public improvement projects.* Permittee shall remove and relocate the permitted small cell facility and/or wireless support structure at permittee's sole expense to accommodate construction of a public improvement project by the City.
- (N) *Removal of small cell facilities if use discontinued or abandoned.*
 - (1) In the event that the use of a small cell facility and/or wireless support structure is discontinued, the owner or operator of the small cell facility and/or wireless support structure shall submit a request for consent to remove the wireless support structure or small cell facility, as provided in

section 99.24(A)(3), which shall serve as the notice required by §98.12 to the city of its intent to discontinue use and the date when the use shall be discontinued. If the small cell facility and/or wireless support structure is not removed within 365 days of discontinued use, the small cell facility and/ or wireless support structure shall be considered abandoned and the city may remove it at the owner's expense.

- (2) Small cell facilities and wireless support structures determined by the city to be abandoned without notice from the owner may be removed by the city at the owner's expense to ensure the public health, safety, and welfare.

§99.27 SAFETY REQUIREMENTS

- (A) *Prevention of failures and accidents.* Any person who owns a small cell facility and/or wireless support structure sited in the right-of-way shall at all times employ ordinary and reasonable care and install and maintain in use industry standard technology for preventing failures and accidents which are likely to cause damage, injury, or nuisance to the public.
- (B) *Compliance with fire safety and FCC regulations.* Small cell facilities, wires, cables, fixtures, and other equipment shall be installed and maintained in substantial compliance with the requirements of the National Electric Code, all FCC, state, and local regulations, and in such manner that will not interfere with the use of other property.
- (C) *Surety bond or equivalent financial tool for cost of removal.* All owners must procure and provide to the city a bond, or must provide proof of an equivalent financial mechanism, to ensure compliance with all provisions of §§99.20 through 99.29. The bond or equivalent financial method must specifically cover the cost of removal of unused or abandoned small cell facilities and/ or wireless support structures or damage to city property caused by an operator or its agent of each small cell facility and/ or wireless support structure which the owner installs in the right-of-way in case the city has to remove or pay for its removal. Two acceptable alternatives to a bond include a funds set-aside and a letter of credit.

§99.28 RECOVERY OF COSTS

- (A) *Application processing fee.* For processing an application for consent, the city may charge a fee for each small cell facility and wireless support structure requested as prescribed under section 4939.0316 of the Ohio Revised Code and as listed on the associated application forms which shall be made available by the Department of Public Works. The city may adjust this fee ten per cent every five years, rounded to the nearest five dollars.
- (B) *Annual collocation fee.* For reimbursement for operator's attachment of small cell facilities to wireless support structures owned or operated by the city and located in the right-of-way, the city may charge an annual fee as prescribed in 4939.022 of the Ohio Revised Code and as listed on associated application forms which shall be made available by the Department of Public Works. The city may adjust this fee ten per cent every five years, rounded to the nearest five dollars.
- (C) *Tax liabilities and assessments not applicable.* Placement of small cell facilities in the right-of-way or attachment of small cell facilities to a wireless support structure and any fees associated therewith shall not subject the city to any state or local tax liabilities or assessments.

§99.29 SEVERABILITY

The provisions of §§99.20 through 99.29 of this chapter are severable. If any provision or subsection, or the application of any provision or subsection to any person or circumstances is held invalid, the remaining provisions, subsection, and applications of such ordinance to other persons or circumstances shall not be made invalid as well. It is declared to be the intent of this section that the remaining provisions would have been adopted had such invalid provisions not been included in this chapter when originally adopted by Council.

§99.99 PENALTY

- (A) In addition to any other penalties set forth in this chapter, any person or permittee violating any section in this chapter shall be guilty of a minor misdemeanor. Each day the violation continues shall be deemed a separate offense.
- (B) Nothing herein shall prevent the city from taking any other lawful action, including civil actions at law or equity, including temporary restraining orders, preliminary injunctions and permanent injunctions, as is necessary to prevent or remedy any violations.



Design Guidelines for Small Cell Facilities and Wireless Support Structures within the Right-of-Way

June 1, 2018

Department of Public Works--Engineering
Department of Development--Planning



EVERYTHING GROWS HERE.

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1. BACKGROUND AND PURPOSE



1. BACKGROUND AND PURPOSE

1.1 Background

House Bill 478 modifies a previously adopted law regarding wireless service and the placement of small cell facilities in city rights-of-way. It was passed on April 11, 2018, signed by the governor on May 2, 2018 and is effective as of August 1, 2018. The law is intended to promote the rapid deployment of small cell facility infrastructure within the right-of-way by ensuring that municipalities grant or deny consent to install, operate, modify, or replace wireless facilities in a timely manner. The law recognizes the authority of a municipality to manage access to, and occupancy of, rights-of-ways to the extent necessary with regard to matters of local concern. This includes the protection of the integrity of residential and historic areas and ensures that the use of the rights-of-way in such districts is technologically and aesthetically appropriate.

Chapter 99 of the City of Dublin Codified Ordinances has been modified to account for the provisions of HB 478 for the regulation of small cell facilities and wireless support structures within city rights-of-way.

1.2 Purpose

In addition to the requirements of Chapter 99, these Design Guidelines for Small Cell Facilities and Wireless Support Structures provide guidance to wireless communications carriers on the aesthetic requirements and specifications that all small cell facilities and wireless support structures must meet prior to installation in the City of Dublin right-of-way. Although small cell facilities installed outside the right-of-way are not bound by these guidelines, they may inform these installations.

The objective of the Design Guidelines is to strike a balance between preserving the character of the City of Dublin through careful design, siting, landscaping and camouflaging techniques to blend these facilities into their environment, while enhancing the ability of wireless communications carriers to deploy small cell facilities and wireless support structures in the city quickly, effectively, and efficiently so that residents, businesses, and visitors benefit from ubiquitous and robust wireless service availability.

The Design Guidelines are intended to allow sufficient flexibility to respond to and integrate future advances in small cell facilities technology as well as innovations that improve the ability for these facilities to integrate into the surrounding environment. Due to the rapid advances in wireless technology, the Design Guidelines will be evaluated periodically to ensure that the provisions respond and adapt accordingly to these evolving technologies.

These guidelines apply to requests to locate small cell facilities in the right-of-way and are administered by the City of Dublin Right-of-Way Permit Group within the Department of Public Works/Engineering with support from Planning within the Department of Development. The group can be contacted at 614-410-4740.



2. TYPES OF APPLICATION REQUESTS



2. TYPES OF APPLICATION REQUESTS

Requests to locate small cell facilities and wireless support structures within the right-of-way generally involve either the collocation of small cell facilities in association with existing wireless support structures, or the installation of a new wireless support structure and associated small cell facilities. In addition to these main categories, applications are required for the removal of small cell facilities and wireless support structures as well as Eligible Facilities Requests for modification of an existing tower or base station within the right-of-way.

2.1 Collocation on Existing Wireless Support Structure and Associated Small Cell Facilities (Type 1 Request)

A request for Collocation on an Existing Wireless Support Structure (Type 1 Request) involves installing or ‘collocating’ small cell facilities on an existing wireless support structure, such as a light pole, or utility pole. Type 1 Requests are administered through the Small Cell Right-of-Way Permit review process following approval of a General Right-of-Way Permit. The General Right-of-Way Permit must be renewed every 5 years.

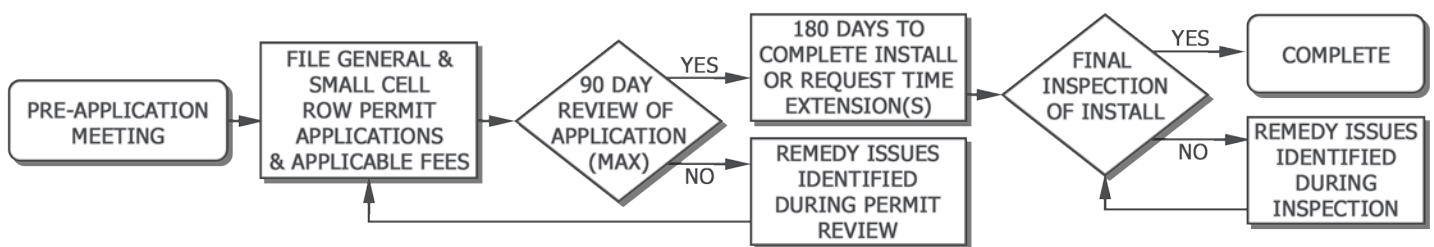


Figure 2A--Type 1 Application Request Process

2.2 New Wireless Support Structure and Associated Small Cell Facilities (Type 2 Request)

A request for a new wireless support structure and small cell facility (Type 2 Request) involves an operator installing a wireless support structure and associated small cell facility or facilities. Type 2 Requests are administered through the Small Cell Right-of-Way Permit review process following approval of a General Right-of-Way Permit. The General Right-of-Way Permit must be renewed every 5 years.

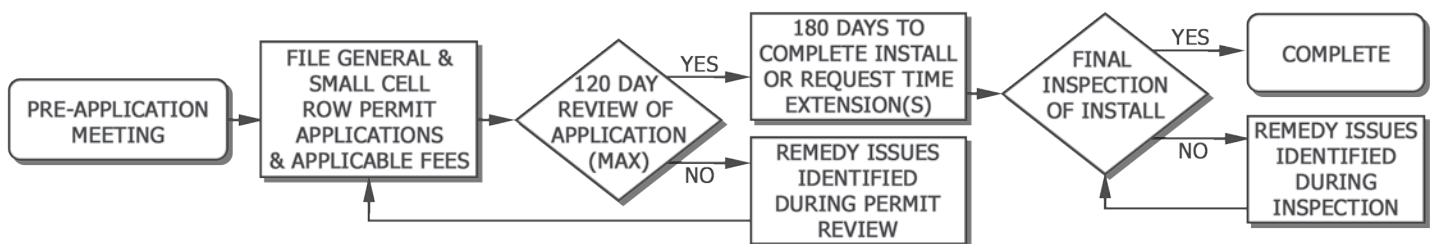


Figure 2B--Type 2 Application Request Process

2.3 Removal of Wireless Support Structure and/or Associated Small Cell Facilities (Type 3 Request)

Requests to permanently remove privately-owned wireless support structures from the right-of-way are adminis-

2. TYPES OF APPLICATION REQUESTS

tered through the Small Cell Right of Way Permit review process.

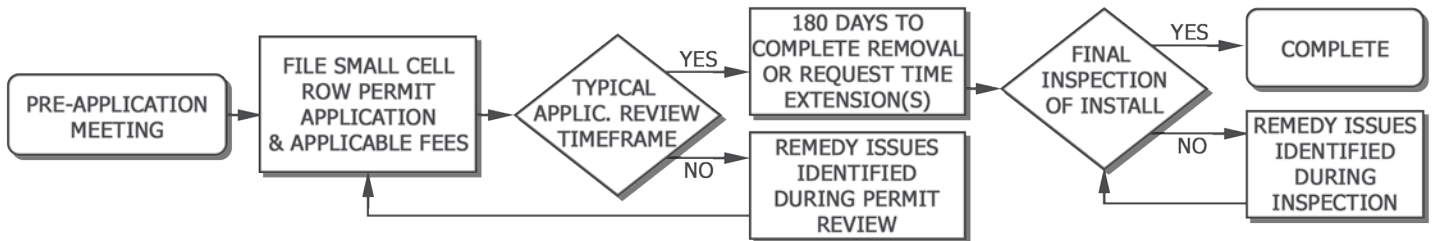


Figure 2C--Type 3 Application Request Process

2.4 Eligible Facilities Request (Type 4 Request)

An Eligible Facilities Request (Type 4 Request) is a request to modify an existing tower or base station within the right-of-way constructed for the sole or primary purpose of supporting antennas and other associated facilities for wireless communications services, such that the modification does not substantially change the physical dimensions of such tower or base station when collocating new equipment, removing transmission equipment, or replacing transmission equipment.

A substantial modification to a tower or base station within the right-of-way is defined as follows:

- (1) It increases the height of the structure by more than 10% or more than ten feet, whichever is greater;
 - (a) Changes in height should be measured from the original support structure in cases where deployments are or will be separated horizontally, such as on buildings' rooftops; in other circumstances, changes in height should be measured from the dimensions of the wireless support structure, inclusive of originally approved appurtenances and any modifications that were approved prior to the passage of the Spectrum Act.
- (2) It involves adding an appurtenance to the body of the wireless support structure that would protrude from the edge of the structure by more than six feet;
- (3) It involves installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets; or, for wireless support structures in the public rights-of-way, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than 10% larger in height or overall volume than any other ground cabinets associated with the structure; and/or
- (4) It entails any excavation or deployment outside the current site.

Type 4 Requests are administered through the Small Cell Right-of-Way Permit review process. If during the staff review, it is determined that substantial modifications are proposed, the applicant will be informed that a Type 1 Application Request will be required.

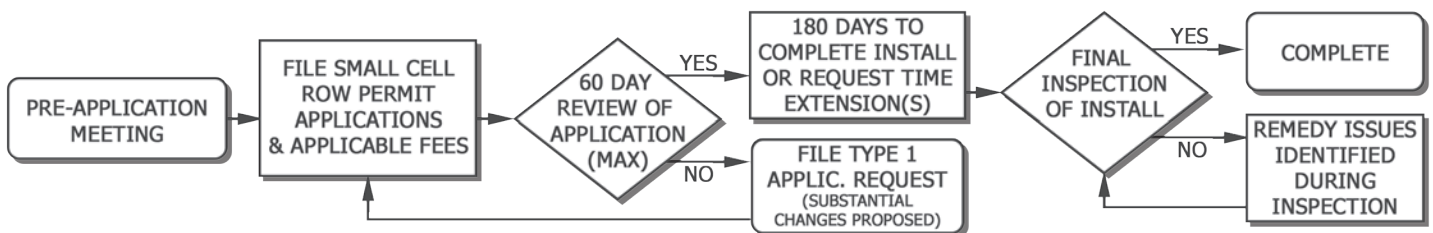


Figure 2D--Eligible Facilities Request Process

3. REQUIRED APPLICATION MATERIALS



3. REQUIRED APPLICATION MATERIALS

Unless otherwise required by state or federal law, or unless mutually agreed upon as part of the Pre-Application Meeting, all applicants shall submit to the city the following materials and information associated with each application type in order for the application to be considered complete:

3.1 Required Application Materials for Installation of Small Cell Facilities and/or Wireless Support Structures.

3.1.1 Completed Permit Application Form(s) and Fee(s) as applicable.

3.1.2 Site Plan.

At a scale not smaller than one inch equals twenty feet with dimensions, clearly indicating the following:

- Proposed location within the right-of-way including nearest cross street intersection(s);
- For parcels within 150 feet of the proposed small cell facility location, parcel identification number and property ownership as currently listed by Franklin, Delaware and Union County auditors, as applicable;
- All existing conditions within 150 feet of the proposed location, including but not limited to, buildings, utilities within the right-of-way and associated above grade structures, location of electric service and fiber optic cable, all other underground and overhead utilities, wireless support structures (both with and without small cell facilities attached), ground mounted small cell facilities, sidewalks/shared-use paths, back of adjacent curb/edge of pavement, driveways, street trees, and protected trees as defined in §153.141 of the City of Dublin Code of Ordinances.
- Dimensions shall be provided from the proposed wireless support structure and/or small cell facility to existing wireless support structures and equipment, utility structures, back of curb/edges of pavement including driveways, sidewalks and shared-use paths.
- Dimensions shall be provided between proposed wireless support structures and any associated ground mounted equipment.

3.1.3 Inventory of Existing Small Cell Facilities and Wireless Support Structures

Please provide an inventory of any existing and approved wireless support structures with collocated small and small cell facilities that are either within the jurisdiction or within one-half mile of the border of the city, with latitudinal and longitudinal location coordinates.

The city may share this information with other applicants seeking to locate small cell facilities and/or wireless support structures within the City of Dublin. However, the city is not, by sharing this information, in any way representing or warranting that the sites are available or suitable. The inventory of each small cell facility and wireless support structure shall include:

- A map showing each location, by address and/or parcel identification number, including straight-line distances between each facility;
- Facility height and design; and
- Facility owner(s)/operator(s)

3.1.4 Wireless Support Structure Details.

Plans, elevations, profiles and sections at a scale not smaller than one inch equals five feet, depicting existing wireless support structures for collocation requests and proposed new wireless support structures, as applicable

and clearly indicating the following:

- Height from established grade at the base of the wireless support structure to the highest point of the wireless support structure and the height to the highest point of proposed antenna or antenna enclosures, as applicable (overall height).
- Height from established grade at the base of the wireless support structure to the lowest point of all proposed small cell equipment to be installed on the wireless support structure.
- Outside diameter of upper poles, and for tapered poles the outside diameter as measured at the widest and narrowest points of the pole.

3.1.5 Small Cell Facilities Details.

Plans, elevations, profiles and sections at a scale not smaller than one inch equals five feet, depicting existing small cell facilities and/or proposed small cell facilities clearly indicating the following, as applicable:

- Height, width, depth and volume in cubic feet of all proposed antenna and exposed elements and/or proposed antenna shrouds.
- Height, width, depth and volume of all other wireless equipment associated with the facility, with all 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 clearly labeled.
- The distance from the outer edge of small cell facility cabinet parallel to the outer edge of the wireless support structure for small cell facilities to be installed on a wireless support structure.
- Method of installation/connection to pole or ground, as applicable.
- Color specifications for all small cell facilities and wireless support structures and associated exposed equipment, cabinets and concealment elements.
- Electrical plans and wiring diagrams
- Footing and foundation drawings and structural analysis sealed and signed by a professional engineer in the state of Ohio.

3.1.6 Manufacturer's Specification Sheets.

- Provide the most recent specification sheets from manufacturers for all small cell facility equipment and wireless support structures proposed, including but not limited to poles, equipment cabinets, shrouds, or concealment devices, antennas, meters, radios, switches, telecommunications demarcation boxes, and grounding equipment.

3.1.7 Landscape Plans.

- Where ground mounted small cell equipment cabinets are proposed, provide landscape plans at a scale not smaller than one inch equals ten feet, including planting details and a plant schedule indicating proposed plant species, quantities, spacing, and height/size at installation.

3.2 Required Application Materials for Wireless Support Structure and/or Small Cell Facilities Removal.

For applications involving the removal of small cell facilities and/or wireless support structures, the following materials and information shall be provided:

3.2.1 Small Cell Right-of-Way Permit application and fee as specified.



3. REQUIRED APPLICATION MATERIALS

3.2.2 Site Plan.

At a scale not smaller than one inch equals twenty feet with dimensions, clearly indicating the following:

- Existing small cell facilities and/or wireless support structure location within the right-of-way including nearest cross street intersection(s);
- For adjacent parcel(s) perpendicular to the proposed small cell facility/wireless support structure location, property ownership, including current ownership;
- All existing conditions within 50 feet of the existing small cell facilities locations to be removed, including but not limited to, buildings, utilities within the right-of-way and associated above grade structures, location of electric service and fiber optic cable, all other underground and overhead utilities, small cell structures and facilities, sidewalks/shared-use paths, back of adjacent curb/edge of pavement, driveways, street trees and plant material.

3.2.3 Remediation Plans.

Site and/or structure remediation details at a scale not smaller than one inch equals five feet in accordance with the requirements of Section 4.4, and clearly indicating the following:

- Proposed remediation plan for modifications made to city-owned wireless support structures and other areas of the right-of-way associated with collocation of small cell wireless facilities and ground mounted equipment after the removal of these facilities.
- Proposed restoration of electric and fiber optic connections after removal of small cell facilities, as applicable.



4. GENERAL DESIGN GUIDELINES



4. GENERAL DESIGN GUIDELINES

4.1 Collocations on Existing Wireless Support Structures (Type 1 Requests)

4.1.1 Collocations Encouraged.

- Except as otherwise provided in the Context Specific Guidelines, the collocation of wireless facilities on existing support structures (that are engineered to accommodate such facilities) is strongly encouraged.

4.1.2 Maximum Permitted Height.

- Antennas, small cell facilities and any associated concealment materials shall not increase the overall height of the existing wireless support structure by more than five (5) feet.

4.1.3 Use of Existing Privately Owned Utility Poles

There are a number of existing private utility poles located within the right-of-way throughout the city. These support structures are not owned by the City of Dublin, but may be eligible for collocations of small cell facilities pending permission of the legal owner of the structures.

- Documentation Required
 - Documentation of owner's permission to collocate small cell facilities must be included with the Type 1 Request in the form of a letter or other correspondence/documentation.
- Antenna Mounting Requirements
 - Where possible, antenna shall be installed consistent with the requirements of 4.3.1. Where existing conditions preclude this mounting location, antennas shall be fully enclosed within a shroud attached as near as possible to the top of the wooden pole and on the side of the pole opposite the direction of vehicular traffic along the same side of the right-of-way.
- Wiring, Cables and Conduit Requirements
 - All wiring and cables shall be firmly secured to the support structure and enclosed within a separate rigid external conduit attached directly to the pole or offset not more than four (4) inches by mounting brackets. Conduit color shall be gray to match the required small cell facilities and enclosure color.
 - Spools and/or coils of excess fiber optic or cables or any other wires shall not be stored on the pole except completely within the approved enclosures or cabinets.
- Color
 - All small cell facilities, cabinets, shrouds, conduit, and mounting hardware proposed in conjunction with installation on an existing wooden pole shall be grey Federal Standard #26492 powder coated finish or as approved by the City Engineer.

4.1.4 Structural Capacity of Existing Support Structures.

- The city will not authorize any attachments to city-owned infrastructure that negatively impacts the structural integrity of the associated infrastructure.
- The city may condition approval of the collocation on replacement or modification of the wireless support structure at the operator's cost if the city determines that replacement or modification is necessary for compliance with city standards.



- A replacement or modification of the wireless support structure shall conform to all applicable design guidelines and city specifications for the type of structure being replaced.
- The city may retain ownership of a replacement wireless support structure.

4.1.5 Right to Reserve Space

- The city may reserve space for future public safety or transportation uses in the right-of-way or on a wireless support structure in a documented and approved plan in place at the time an application is filed.
 - A reservation of space shall not preclude placement of a pole or collocation of a small cell facility.
 - If replacement of the wireless support structure is necessary to accommodate the collocation of the small cell facility and the future use, the operator shall pay for and install the replacement of the wireless support structure, which must accommodate the future use.

4.2 New Wireless Support Structures and Small Cell Facilities (Type 2 Requests)

4.2.1 Maximum Permitted Height.

- The maximum permitted height for private wireless support structures, antennas and associated small cell facilities shall not exceed forty (40) feet in height above established grade as measured at the base of the wireless support structure, except as provided below.
- The maximum permitted height for private wireless support structures, antennas and associated small cell facilities shall not exceed thirty-five (35) feet in height in areas meeting the following criteria:
 - The area is within 300 feet of the proposed site for a new wireless support structure in the same or connecting rights-of way, and there are no existing wireless support structures or utility poles greater than 30 feet in height above ground level;
 - The maximum permitted height for building construction in the underlying zoning district is thirty-five (35) feet in height above ground level or less.

4.2.2 Minimum Spacing Requirements

- Minimum spacing between proposed and existing privately-owned wireless support structures.
 - The minimum horizontal distance between a new wireless support structure and associated small cell facilities and any other existing, or permitted but unconstructed, wireless support structures and small cell facilities on the same side of the right-of-way at the time a complete application is filed with the city, irrespective of the owners/operators, shall be not less than 300 linear feet, as measured parallel to the right-of-way, unless an alternate spacing requirement is provided in the Context Specific Design Guidelines.
- Spacing between proposed wireless support structures and existing publicly-owned wireless support structures.
 - New wireless support structures shall be located midway between the immediately adjacent existing publicly-owned wireless support structures on either side of the proposed wireless support structure to the maximum extent possible.
- Multiple requests in violation of spacing requirements.
 - If multiple requests are received to install two or more wireless support structures that would violate the applicable spacing requirements, or to collocate two or more small cell facilities on the same wireless support structure, notwithstanding division (I) of section 4939.0313 of the Revised Code, the city may resolve conflicting requests through whatever reasonable and nondiscriminatory manner it deems appropriate.

4. GENERAL DESIGN GUIDELINES

- City proposed alternative location for wireless support structures.
The city may propose an alternate location to any proposed location of a new wireless support structure, subject to the following:
 - That the alternate location is within one hundred (100) feet of the proposed location or within a distance that is equivalent to the width of the right-of-way in which the new wireless support structure is proposed, whichever is greater; and
 - The operator shall use the alternate location if it has the right to do so on reasonable terms and conditions and the alternate location does not impose technical limits or additional costs.
- Waiver to city directed alternate wireless support structure location or undergrounding requirements
Small cell operators may seek a waiver of the undergrounding or alternative location requirements for the placement of a new wireless support structure if the operator is unable to achieve its service objective using a small cell facility under the following circumstances:
 - From a location in the right-of-way where the prohibition does not apply;
 - In a utility easement within the right-of-way 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.

4.2.3 Required Setbacks

- Preferred Alignment
 - The centerline of new support structures shall be installed in alignment with existing poles where present, or with street trees along the same side of the right-of-way, unless otherwise required in the Context Specific Design Guidelines.
- Minimum Distance from Travelway
 - Equipment shall be placed so as not to impede or impair public safety or the legal use of the right-of-way by the traveling public, and in no case shall any portion of new support structure be located less than two feet from the travel way, edge line, face of curb, sidewalk, bike lane, or shared-use path.
- Minimum Distance from Existing Objects in the Right-of-Way
 - New wireless support structures shall be located a minimum of twelve (12) feet from any permanent object or existing lawful encroachment in the right-of-way to allow for access.
- Minimum Distance from Intersections and Driveway Aprons
 - Wireless support structures shall be located a minimum of twelve (12) feet from driveway aprons.
 - Wireless support structures shall be located outside of intersection sight distance triangles, whenever possible. Please refer to Intersection Sight Distance Policy:

<http://dublinohiousa.gov/engineering/engineering-permits-drawings-and-policies>

- Minimum Distance from Street Trees and Protected Trees in the Vicinity.
 - Wireless support structures shall be sited outside of the critical root zone of existing street trees and any existing protected trees having a six (6) inch or greater diameter at breast height (DBH) located in the immediate vicinity, including protected trees on private property as defined in the City of Dublin Tree Preservation Code:

<http://forestry.ohiodnr.gov/portals/forestry/pdfs/urban/dublinpreserv.pdf>



- Encroachments Prohibited
 - No portion of a wireless support structure or small cell facility cabinet or enclosure may encroach at grade or within the airspace beyond the right-of-way or over the travelway.

4.2.4 Wireless Support Structure Design Specifications

- Pole Specifications
 - All new wireless support structures shall be constructed of solid hot-dipped galvanized steel, be round in shape with a smooth pole shaft.
 - Wireless support structures incorporating pole mounted small cell facilities shall be tapered in diameter from the base to the top, with a maximum diameter of 12 inches at the base and a maximum diameter of 8 inches at the top.
 - Wireless support structures incorporating small cell facilities in an equipment cabinet within a transformer base may utilize poles tapered in diameter or poles having a consistent outside diameter.
 - All poles shall be scaled to 0.5 to 0.75 times the maximum width of the cabinet, with a ten (10) inch minimum outer pole diameter at the widest portion of tapered poles.
- Transformer Base
 - All new wireless support structures shall include a one-piece cast aluminum alloy transformer base in a breakaway design, consistent with specifications of City of Dublin Standard Drawing SL-02 or as designed by a professional engineer licensed and registered in the State of Ohio, and subject to the City Engineer's review and approval.
- Foundation
 - All new wireless support structures must be supported with a reinforced concrete foundation designed, stamped, sealed and signed by a professional engineer licensed and registered in the State of Ohio, and subject to the City Engineer's review and approval.
 - Anchor bolts must be constructed from high strength steel per City of Dublin Standard Drawing SL-04 and in a length and diameter determined, stamped, sealed and signed by a professional engineer licensed and registered in the State of Ohio, and subject to the City Engineer's review and approval.
 - All anchor bolts must be concealed from public view, with an appropriate pole boot or cover powder coated to match the pole color.
- Color
 - Color for all wireless support structures and bases shall be as prescribed in the Context Specific Design Guidelines.

4.3 Small Cell Facilities (All Request Types)

4.3.1 Antennas

- Maximum Size
 - Each antenna shall be located entirely within a shroud enclosure of not more than six (6) cubic feet in volume.
 - The diameter of the antenna or antenna enclosure should not exceed the diameter of the top of the wireless support structure pole, and to the maximum extent practical, should appear as a seamless vertical extension of the pole.
 - In no case shall the maximum diameter of the shroud be wider than one and one half times the diameter of the top of the pole.
 - Where maximum shroud diameter exceeds diameter of the top of the pole, the shroud shall be tapered to

4. GENERAL DESIGN GUIDELINES

meet the top of the pole.

- Mounting Location
 - Unless otherwise required by the Context Specific Design Guidelines, all antenna shall be mounted to the top of the wireless support structure pole, aligned with the centerline of the structure.
- Design Specifications
 - Shape. Antennas shall be generally cylindrical in shape.
 - Enclosure. Antenna shall be completely housed within a cylindrical shroud that is capable of accepting paint to match the wireless support structure.
 - Color. Color for all antennas and shrouds shall match the color of the wireless support structure as prescribed in the Context Specific Design Guidelines.

4.3.2 Associated Small Cell Facilities and Equipment.

- Maximum Size
 - Exclusive of the antenna, all wireless equipment associated with the small cell facility shall not cumulatively exceed twenty-eight (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.
- Encroachments Prohibited
 - No portion of a wireless support structure or small cell facility cabinet or enclosure may encroach at grade or within the airspace beyond the right-of-way or over the travelway.
- Screening and Installation Location. All small cell facilities, associated equipment and cabling shall be completely concealed from view within an enclosure, and may be installed in the following locations:
 - Within an equipment enclosure mounted to the wireless support structure;
 - Within an equipment cabinet integrated within the transformer base of a new wireless support structure; or
 - Within a ground-mounted cabinet physically independent from the wireless support structure.
- Color
 - Color for all small cell facilities and enclosures/cabinets attached to wireless support structures or integrated within the transformer base shall match the color of the associated wireless support structure as prescribed in the Context Specific Design Guidelines.
 - Color for all ground-mounted small cell facilities and cabinets shall be as prescribed in the Context Specific Design Guidelines.

4.3.3 Small Cell Facilities Mounted to Wireless Support Structures

- Minimum Mounting Height
 - All small cell facilities mounted to wireless support structures shall provide a minimum clearance of 10 feet above established grade.
- Maximum Permitted Protrusion of Enclosure from Wireless Support Structure Pole
 - Small cell equipment enclosures shall not protrude more than eighteen (18) inches beyond the face of the pole to the outermost portion of the enclosure.
 - Small cell equipment enclosures should be installed as flush to the wireless support structure pole as practical. In no case shall an enclosure be installed more than four inches from the wireless support structure pole.



- Required Enclosure Mounting Location.
 - All small cell facilities and equipment enclosures shall be mounted on the side of the pole opposite the direction of vehicular traffic of the adjacent roadway. Enclosures shall extend perpendicular from the pole and parallel to the right-of-way.
- Required Arrangement of Multiple Small Cell Facility Cabinets
 - All pole-mounted equipment must be installed as flush to the pole as possible. Where multiple enclosures are proposed on a wireless support structure pole, the enclosures shall be grouped as closely together as possible on the same side of the pole.
- Design Specifications
 - Size. Small cell equipment enclosures should be the smallest size practicable to house the necessary small cell facilities and equipment.
 - Small cell equipment enclosures shall be cylindrical or rectangular in shape, and should generally be no wider than the maximum outside diameter of the pole to which it is attached, to the maximum extent possible.
 - Attachment. The shroud enclosure shall be securely strapped to the wireless support structure pole using stainless steel banding straps. Through-bolting or use of lag bolts on publicly-owned wireless support structures is prohibited. New wireless support structures may utilize mounting brackets in accordance with the maximum horizontal offset requirements. Care should be taken to integrate the mounting hardware into the enclosure design.
 - Concealment of Gap. Metal flaps or “wings” shall extend from the enclosure to the pole to conceal any gap between the enclosures and the pole. The design of the flaps shall be integrated with the design of the enclosure.
 - Owner Identification. A four (4) inch by six (6) inch (maximum) plate with the Carrier’s name, location, identifying information, and emergency telephone number shall be permanently fixed to the enclosure on the side of the cabinet opposite the direction of vehicular traffic of the adjacent roadway.

4.3.4 Small Cell Facilities Cabinets Integrated within a Wireless Support Structure Transformer Base

- Transformer Base/Cabinet Size.
 - Equipment cabinets integrated into the support structure transformer base shall have a maximum width or diameter of twenty-four (24) inches, and a maximum height of five (5) feet.
 - The top of the cabinet shall have no flat horizontal area greater than two (2) inches as measured outward from the pole to the edge of the cabinet to prevent objects from being placed on top the equipment cabinet.
- Siting Requirements
 - Small cell facilities cabinets within transformer bases and associated wireless support structures are prohibited to be located within sight visibility triangles. Please refer to Intersection Sight Distance Policy:

<http://dublinohiousa.gov/engineering/engineering-permits-drawings-and-policies>

- Design Specifications.
 - Shape. Transformer Base/Cabinet shape shall either be tapered with a trapezoidal or truncated cone section or cylindrical in shape.
 - Transition to Pole. A decorative transition or base cover shall be installed over the equipment cabinet upper bolts to match the equipment cabinet size and color.
 - Owner Identification. A four (4) inch by six (6) inch (maximum) plate with the Carrier’s name, location, identifying information, and emergency telephone number shall be permanently fixed to the cabinet on the side of the cabinet opposite the direction of vehicular traffic of the adjacent roadway.



4. GENERAL DESIGN GUIDELINES

- Attachment to Foundation. Transformer base/cabinet shall feature a breakaway design in the event of collisions.

4.3.5 Ground-Mounted Small Cell Facilities

■ Siting Requirements

- So as not to impede or impair public safety or the legal use of the right-of-way by the traveling public, in no case shall a ground mounted small cell facility cabinet be located closer than two feet from the travel-way, edge line, face of curb, sidewalk, bike lane, or shared-use path as measured to the nearest part of the wireless support structure.
- Ground-mounted small cell facility cabinets shall be located a minimum of twelve (12) feet from any permanent object or existing lawful encroachment in the right-of-way to allow for access.
- Ground-mounted small cell facility cabinets shall not be sited in conflict with required intersection sight distance triangles. Please refer to Intersection Sight Distance Policy:

<http://dublinohiousa.gov/engineering/engineering-permits-drawings-and-policies>

- Ground-mounted small cell facility cabinet locations shall be located a minimum of twelve (12) feet from driveway aprons as measured parallel to the right-of-way.

■ Design Specifications

- Attachment to Foundation/Slab: Cabinets must be secured to a concrete foundation or slab with a breakaway design in the event of collisions.
- Owner Identification. A four (4) inch by six (6) inch (maximum) plate with the Carrier's name, location, identifying information, and emergency telephone number shall be permanently fixed to the cabinet.

■ Additional Landscape Screening

- Screening of small cell facility cabinets with a variety of plant material may be required based on the characteristics of the surrounding area.
- All proposed ground mounted equipment cabinets shall be reviewed for determination of applicability of the landscape screening requirement based on the surrounding context, and where required, for appropriateness of the proposed planting plan and plant specifications by the City of Dublin Landscape Architect, Department of Parks and Recreation.

4.3.6 Power Supply and Fiber Optic Connections (All Request Types)

■ Independent Power and Communication Sources Required

- Small cell facilities located on city-owned wireless support structures may not use the same power or communication source providing power and/or communication for the existing facility original to the purposes of the support structure. The independent power source must be contained within a separate conduit inside the support structure. The applicant shall coordinate, establish, maintain and pay for all power and communication connections with private utilities.

■ Utility Undergrounding Required

- Where an Underground Utility District is present, all service lines from the power source to the small cell facilities and wireless support structure shall be located underground.

■ Wiring, Cables and Conduit Requirements

- All wiring and cables must be housed within the steel support structure or pole and extended vertically within a flexible conduit.



- Spools and/or coils of excess fiber optic or coaxial cables or any other wires shall not be stored on the pole except completely within the approved enclosures or cabinets.
- Exposed wires, cables, connections and external conduit are prohibited, except as specified in the Context Specific Design Guidelines based on the characteristics of the wireless support structure.
- Underground conduit shall meet the specifications of City of Dublin Standard Drawing SL-05.

4.3.7 Other Small Cell Facilities Prohibitions.

- Lighting
 - Lighting associated with small cell facilities is prohibited. Any internal lights associated with electronic equipment shall be shielded from public view.
- Signage
 - Signage is prohibited on all small cell facilities and wireless support structures, including stickers, logos, text, and other non-essential graphics and information other than the owner identification unless required by FCC.
- Prohibited Wireless Facilities
 - Microwave, macro towers, and other wireless backhaul facilities are not permitted within the right-of-way.

4.4 Removal of Small Cell Facilities and Wireless Support Structures (Type 3 Requests)

4.4.1 Remediation of City-Owned Support Structures

- All City-owned support structures must be returned to an equal or better state, upon removal of small cell facilities. All mounting hardware and equipment must be removed from the site. All holes left in the pole must be neatly sealed from any moisture intrusion and painted to match the pole.

4.4.2 Remediation of Sites

- Applicant shall restore all areas of the right-of-way impacted by the small cell facilities and/or wireless support structure installation and/or removal to equal or better condition.

5. CONTEXT SPECIFIC DESIGN GUIDELINES



5. CONTEXT SPECIFIC DESIGN GUIDELINES

The design and character of the right-of-way in the City of Dublin is defined by a variety of interconnected factors—the most prevalent are the functional classification of the roadway within the right-of-way and the predominant land uses along the right-of-way. These variables influence the amount of space available in the right-of-way outside of the travel lanes for elements such as sidewalks and shared-use paths, street trees, street lights and utility infrastructure, as well as the aesthetic qualities of these elements.

The unique environmental aesthetics of each area, as well as the characteristics of the right-of-way itself must be taken into consideration in the deployment of small cell facilities and wireless support structures. These facilities must blend seamlessly into the surrounding context to the maximum extent possible.

For the purposes of outlining context specific small cell facilities and wireless support structures design guidelines, five districts have been defined based on the unique existing and desired character of the rights-of-way within these areas. These districts are:

- Historic Dublin
- The Bridge Street District
- Residential Districts
- The West Innovation District
- Other Business Neighborhoods and Commercial Districts.

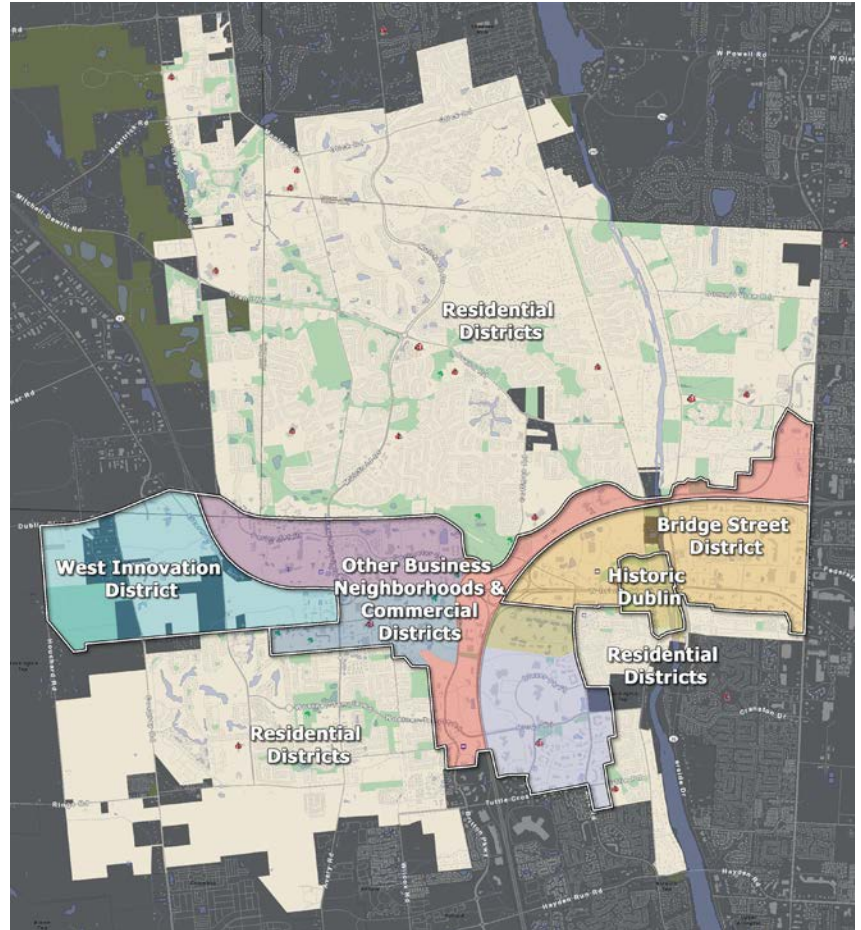
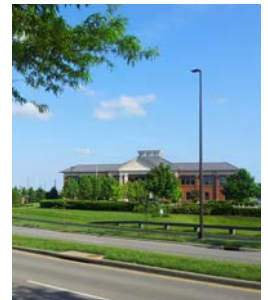


Figure 5A--Context Specific Design Guidelines Districts

The boundaries of each district are depicted in Figure 5A—City of Dublin Context Specific Design Guidelines Districts. In addition to the General Design Guidelines described in Chapter 4, the following Context Specific Guidelines must be met. Where conflicts exist between the guidelines, the Context Specific Guideline shall prevail.



5. CONTEXT SPECIFIC DESIGN GUIDELINES

5.1 Historic Dublin

5.1.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Side Streets, Lanes and Alleys - Preferred
 - Historic Dublin is characterized by a pattern of small blocks accessed by a number of narrow streets and lanes that function as service streets or alleys at the rear of the lots and where a variety of existing above grade infrastructure is present.
 - Preferred rights-of-way for siting of small cell facilities and wireless support structures include Blacksmith Lane, Mill Lane, Darby Street, Wing Hill, Spring Hill, Eberly Hill, Pinneyhill Lane, and John Wright Lane. These streets are highlighted in yellow in Figure 5.1A.

- Bridge Street, High Street, Riverview Street and Franklin Street Corridors – Discouraged
 - These corridors are highlighted in orange in Figure 5.1A, and are character defining elements of Historic Dublin. These streets are the ‘front doors’ to businesses and residences and possess a strong pedestrian environment that should be free of visual clutter along the street-scapes to the maximum extent possible.
 - Existing pedestrian-scale decorative street lights and poles fixtures cannot accommodate new installations and are not suitable for replacement.

- Bridge Street and High Street Intersection - Strongly Discouraged
 - The intersection of Bridge Street and High Street is the historic core of the City of Dublin. As such, the aesthetic character of these streets through Historic Dublin has been carefully designed and regulated to maintain the high quality image of Historic Dublin.
 - The area available within the right-of-way for infrastructure is very limited, and where street lights and other vertical infrastructure is present, it is designed at an appropriate scale and aesthetic quality fitting to this unique area.
 - The Bridge and High Street intersection boundary is defined as the right-of-way of these streets bound by Franklin Street to the west, North and South Riverview

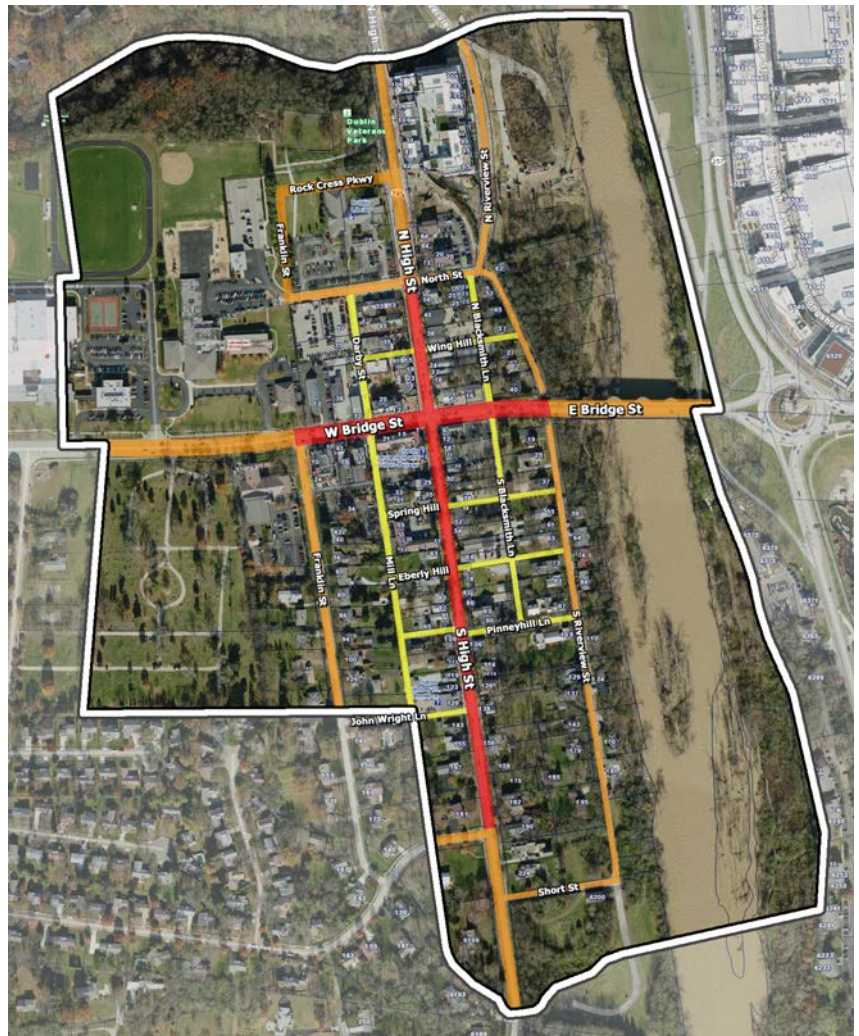


Figure 5.1A--Historic Dublin Boundary and Small Cell Facilities Siting Preferences Map

to the east, North Street to the North and Waterford Drive to the south, as highlighted in red in Figure 5.1A.

5.1.2 Installation Type Preferences

- Type 1 Requests Preferred
 - The most preferred installation type in Historic Dublin is a collocation of an antenna and associated small cell facilities on an existing privately owned utility pole within the service street rights-of-way listed in Section 5.1.1. An example of this type of wireless support structure and an illustration of a Type 1 collocation to this existing support structure is depicted in Figure 5.1B.
 - The second most preferred installation type in Historic Dublin is a collocation of an antenna on an existing privately owned utility pole with small cell facilities enclosed in a ground mounted cabinet within the service street rights-of-way listed in Section 5.1.1.
 - Existing decorative light poles in Historic Dublin as depicted in Figure 5.1C are ineligible for Type 1 collocations of small cell facilities due to the design aesthetics, height and structural capacity of these fixtures. Any modifications to the existing decorative street lights and poles will be inconsistent with the design of the existing fixtures.
- Type 2 Requests Strongly Discouraged
 - The least preferred installation type in the Historic District is a new wireless support structure with small cell facilities within the highly visible 'front door' rights-of-way of Historic Dublin, including but not limited to High Street, Bridge Street, North and South Riverview Street, and Franklin Street.
 - Type 2 Requests for replacement of existing pedestrian-scaled decorative light poles, bases, or luminaires to accommodate small cell facilities will not be permitted as any replacement will be inconsistent with the design of the existing fixtures.



Figure 5.1B--Illustrative Type 1 Collocation Request on Existing Private Wooden Utility Pole (at right)



Figure 5.1C--Decorative Pedestrian-Scale Street Lights in Historic Dublin

5.1.3 Type 1 Installation Details and Specifications

- Use of Existing Decorative Pedestrian-Scale Street Lights.
 - Not permitted.
- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3

5. CONTEXT SPECIFIC DESIGN GUIDELINES

5.1.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited in alignment with other existing poles on the same side of the right-of-way, and aligned as close as practicable with adjacent side property lines, or with shared wall locations in adjacent multi-tenant structures.
 - In no case shall a wireless support structure be sited directly in front of an adjacent building entrance or storefront.
 - Special care should be taken to avoid siting wireless support structures in conflict with business signs.

- Wireless Support Structure Height
 - New wireless support structures and antennas should be no taller than functionally necessary, and coordinate with the height of existing poles in the same right-of-way to the maximum extent practicable. In no case shall the overall height exceed the height requirements of Section 4.2.1.

- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the decorative light poles in the Historic District—black powder coated finish (Federal Standard #27038) as approved by the City Engineer.

5.1.5 Ground Mounted Small Cell Equipment Details and Specifications

- Maximum Permitted Height of Ground Mounted Equipment Cabinets
 - The maximum permitted height for ground mounted equipment cabinets shall not exceed three (3) feet as measured from established grade at the foundation/pad.

- Siting of Ground Mounted Small Cell Equipment Cabinets
 - Ground mounted equipment cabinets are not permitted within the tree lawn/pedestrian furnishing zone of any right-of-way in Historic Dublin.

- Color
 - Color for all ground mounted equipment cabinets shall be grey Federal Standard #26492 powder coated finish or as approved by the City Engineer.

5.2 Bridge Street District (excluding Historic Dublin, please refer to Section 5.1)



Figure 5.2A--Bridge Street District Street Network Map

5.2.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Corridor Connector and District Connector Streets - Preferred
 - In the mixed-use context of the Bridge Street District, Corridor Connector and District Connector rights-of-way are typically of a greater width than Neighborhood Streets, and have greater potential to accommodate small cell facilities and wireless support structures. Corridor Connector and District Connector Streets are designated in purple and orange respectively in Figure 5.2A
 - The rights-of-way of these street types generally include existing street lights and other infrastructure.

5.2.2 Installation Type Preferences

- Type 2 Requests Preferred
 - The most preferred installation type in the Bridge Street District are new, free-standing wireless support structures with small cell facilities enclosed in an equipment cabinet integrated within the transformer base or within a pole mounted enclosure. An illustration of a new wireless support structure with equipment integrated within the base is depicted in Figure 5.2B.
- Type 1 Requests Discouraged
 - Where space is available at the edge



Figure 5.2B--Illustration of Type 2 New Wireless Support Structure Request with Small Cell Equipment within Transformer Base (at right)

5. CONTEXT SPECIFIC DESIGN GUIDELINES

of the right-of-way adjacent to open space, the incorporation of new wireless support structures and small cell facilities and/or collocations to existing wireless support structures may be possible, but shall not be permitted within parks, greenways or other designated open space types approved under §153.064 of the Bridge Street District Code. Figure 5.2C illustrates this type of installation.

- The least preferred installation type in the Bridge Street District are collocations on existing post top street lights, due to the design aesthetics and structural capacity of these fixtures. Any modifications to the existing decorative street lights and poles will be inconsistent with the design of the existing fixtures.
- Ground-Mounted Small Cell Facilities Cabinets—New Streetscapes.
 - Ground mounted small cell facilities cabinets are strongly discouraged from placement in newly created streetscapes within the Bridge Street District. These streetscapes are highly pedestrian oriented with predominantly hardscaped rights-of-way, and no ground mounted utility enclosures within the pedestrian zone or planting/site furnishing zone of the streetscape. The addition of small cell facilities cabinets within these landscape beds will be detrimental to the desired streetscape aesthetic of the Bridge Street District and are strongly discouraged.

5.2.3 Type 1 Installation Details and Specifications

- Use of Post Top Street Lights
 - Existing city-owned street lights with luminaires centered on the top of the pole are not engineered to support wireless facilities. Request for collocations to these street lights will not be permitted. An example of this street light is depicted in Figure 5.2D.
- Use of Bracket Arm Street Lights
 - Refer to General Design Guidelines.
 - Color of all small cell facilities shrouds, enclosures and cabinets shall match color of existing bracket arm street light poles--powder coated black to meet Federal Standard #595-B and conform to Color #27038 as approved by the City Engineer.
- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3.

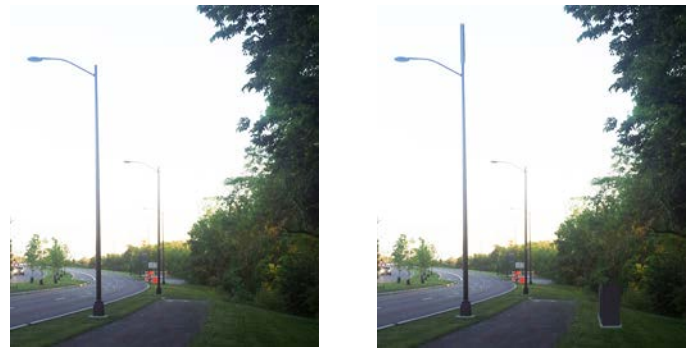


Figure 5.2C--Illustration of Type 1 Collocation Request with Ground Mounted Small Cell Equipment along Open Space within the Right-of-Way.

5.2.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - Wireless support structures should only be sited within the planting/site furnishing zone of the right-of-way, and in no case shall these elements be sited in conflict with minimum clear pedestrian realm width requirements.
 - New wireless support structures should be sited as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way, or with shared wall locations in adjacent multi-tenant structures.
 - In no case shall a wireless support structure be sited directly in front of an adjacent building entrance or storefront.
 - Special care should be taken to avoid siting wireless support structures in



Figure 5.2E--Decorative Post Top Street Lights in the Bridge Street District

conflict with building signs.

- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall be powder coated black to meet Federal Standard #595-B and conform to Color #27038 as approved by the City Engineer.

5.2.5 Ground Mounted Small Cell Equipment Details and Specifications

- Maximum Permitted Height of Ground Mounted Equipment Cabinets
 - The maximum permitted height for ground mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad.
- Siting of Ground Mounted Small Cell Equipment Cabinets
 - Ground mounted equipment cabinets may only be sited within areas of the right-of-way where required setbacks from the travelway and sidewalks and multi-use paths can be met as outlined in Section 4.3.5.
 - Ground mounted equipment cabinets within new Bridge Street District streetscapes will not be supported.
- Color
 - Color for all ground mounted equipment cabinets shall grey Federal Standard #26492 powder coated finish or as approved by the City Engineer.



5. CONTEXT SPECIFIC DESIGN GUIDELINES

5.3 Residential Districts (as outlined in Figure 5A)

5.3.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Arterial and Collector Streets - Preferred
 - Arterial and Collector Streets are the preferred location for small cell facilities and wireless support structures, except in locations adjacent to residences which front onto Arterial or Collector streets. To the maximum extent possible, proposed small cell facilities and wireless support structures should only be sited in areas of these rights-of-way where residences do not face the right-of-way or are accessed from Arterial or Collector Street rights-of-way.
- Local Streets - Strongly Discouraged
 - Street lights and other potential support structures are typically not present within the rights-of-way of local residential streets. The addition of small cell facilities and wireless support structures in front of residences would be detrimental to the aesthetic character of the neighborhood, particularly in areas where no other similar infrastructure exists within the rights-of-way.

<http://dublinohiousa.gov/developer-tools/thoroughfare-plan>

5.3.2 Installation Type Preferences

- Type 1 Requests Preferred
 - The most preferred installation type in residential districts are collocations of an antenna and associated small cell facilities on existing street light poles or privately owned utility poles within the right-of-way.
 - The second most preferred installation type in residential districts is a collocation of an antenna on existing street light poles or existing privately owned utility pole with small cell facilities enclosed in a ground mounted cabinet within the right-of-way.
- Type 2 Requests Strongly Discouraged
 - The least preferred installation type in residential districts are new wireless support structures with small cell facilities.

5.3.3 Type 1 Installation Details and Specifications

- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3

5.3.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way, or with shared wall locations in adjacent multi-tenant structures such as townhomes or condominiums.
 - In no case shall a new wireless support structure be

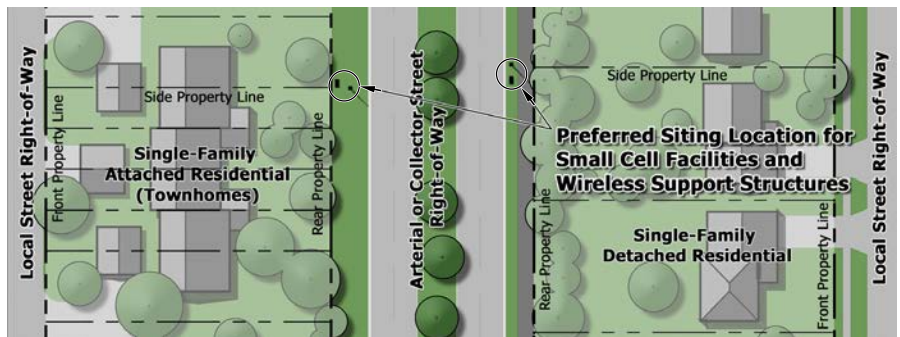


Figure 5.3A--Preferred Siting Location Diagram for Small Cell Facilities in Residential Areas

sited in conflict with neighborhood identification signs and entry features.

- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35% as approved by the City Engineer.

5.3.5 Ground Mounted Small Cell Equipment Details and Specifications

- Maximum Permitted Height of Ground Mounted Equipment Cabinets
 - The maximum permitted height for ground mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad to the top of the cabinet.
- Siting of Ground Mounted Small Cell Equipment Cabinets
 - Ground mounted equipment cabinets may only be sited within tree lawns where required setbacks from the travelway and sidewalks and multi-use paths can be met.
- Color
 - Color for all ground mounted equipment cabinets shall match the existing or proposed wireless support structures— powder coated Federal Standard #595-C, Color 20040 as approved by the City Engineer.



5. CONTEXT SPECIFIC DESIGN GUIDELINES

5.4 West Innovation District

5.4.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Arterial and Collector Streets - Preferred
 - The West Innovation District is predominantly served directly by existing and planned Arterial and Collector Streets. These rights-of-way are the preferred location for small cell facilities and wireless support structures. While there are a limited number of Local Streets in these areas that are also supported for locations for small cell facilities and wireless support structures, Arterial and Collector Street rights-of-way widths generally afford more space in which to site these elements.

<http://dublinohiousa.gov/developer-tools/thoroughfare-plan>

5.4.2 Installation Type Preferences

- Type 2 Requests Preferred
 - The most preferred installation type in the West Innovation District are new, free-standing wireless support structures with small cell facilities enclosed either in an equipment cabinet integrated within the transformer base or within ground mounted equipment cabinets. As the West Innovation District builds out over time and new thoroughfares are constructed, new wireless support structure locations should be planned and are preferred over retrofitted collocations on existing wireless support structures.

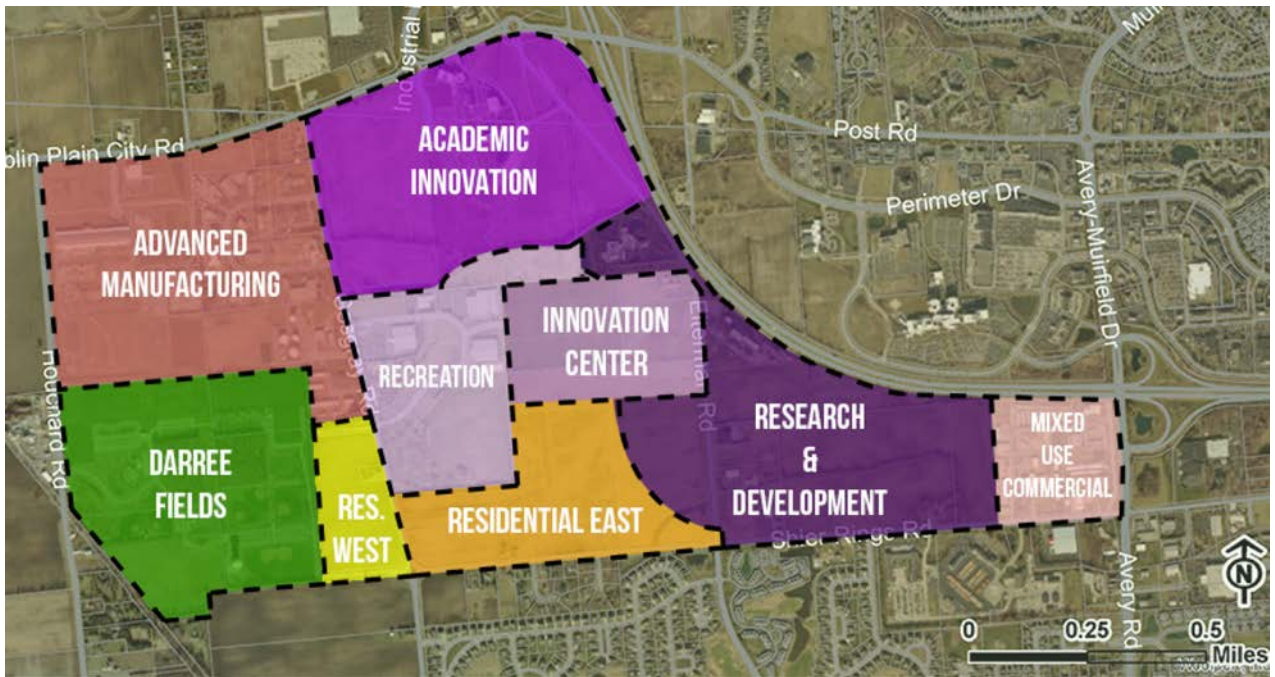


Figure 5.4A--West Innovation District Sub-District Plan

- Location Preference for Ground Mounted Small Cell Facility Cabinets
 - The most preferred siting locations for ground mounted small cell facilities cabinets in the West Innovation District are the rights-of-way in the following Sub Districts based on the proposed land uses, development patterns, and naturalized streetscape planting design: Advanced Manufacturing, Recreation, Residential West and East.

- The least preferred siting locations are the rights-of-way within the Academic Innovation, Innovation Center, Research & Development, and Mixed-Use Commercial Sub Districts, as these areas propose more urbanized development patterns with pedestrian-oriented 'main street' streetscapes with less available space for ground mounted cabinets. Small cell facilities should be enclosed within cabinets integrated with the transformer base to the maximum extent possible in these locations.

5.4.3 Type 1 Installation Details and Specifications

- Use of Standard Street Light Poles
 - Refer to General Design Guidelines.
 - Color of all small cell facilities shrouds, enclosures and cabinets shall match the color of existing standard street light poles--Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35% as approved by the City Engineer.
- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3.

5.4.4 Type 2 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited midway between existing wireless support structures on either side, and as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way.
- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35% as approved by the City Engineer.

5.4.5 Ground Mounted Small Cell Equipment Details and Specifications

- Maximum Permitted Height of Ground Mounted Equipment Cabinets
 - The maximum permitted height for ground mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad to the top of the cabinet.
- Siting of Ground Mounted Small Cell Equipment Cabinets
 - Ground mounted equipment cabinets may only be sited within areas of the right-of-way where required setbacks from the travelway and sidewalks and multi-use paths can be met.
- Color
 - Color for all ground mounted equipment cabinets shall be grey Federal Standard #26492 powder coated finish or as approved by the City Engineer.
- Additional Landscape Screening
 - Where space permits, equipment cabinets should either be incorporated into existing planting beds, or include a variety of evergreen and deciduous plant material at the foundation to screen the cabinets from view.
 - All proposed ground mounted equipment cabinets shall be reviewed for determination of applicability of the landscape screening requirement based on the surrounding context, and where required, for appropriateness of the proposed planting plan and materials by the City of Dublin Landscape Architect, Department of Parks and Recreation.

5. CONTEXT SPECIFIC DESIGN GUIDELINES

5.5 Other Business Neighborhoods/Commercially Zoned Districts

5.5.1 Thoroughfare Preferences for Installation of Small Cell Facilities and Wireless Support Structures

- Arterial and Collector Streets - Preferred
 - Business Neighborhoods and commercially zoned districts are predominantly served directly by Arterial and Collector Streets. These rights-of-way are the preferred location for small cell facilities and wireless support structures. While there are a limited number of Local Streets in these areas that are also supported for locations for small cell facilities and wireless support structures, Arterial and Collector Street rights-of-way widths generally afford more space in which to site these elements.

<http://dublinohiousa.gov/developer-tools/thoroughfare-plan>

5.5.2 Installation Type Preferences

- Type 1 Requests Preferred
 - The most preferred installation type in commercially zoned districts are collocations of an antenna and associated small cell facilities on existing street light poles or privately owned utility poles within the right-of-way.
 - The second most preferred installation type in commercially zoned districts is a collocation of an antenna on existing street light poles or existing privately owned utility pole with small cell facilities enclosed in a ground mounted cabinet within the right-of-way. Figure 5.5A illustrates an example of this type of installation.
- Type 2 Requests Discouraged
 - Based on the fairly wide availability of collocation options to city light poles throughout these areas, the least preferred installation type in commercially zoned districts are new wireless support structures with small cell facilities.



Figure 5.5A--Illustration of Collocation on Existing Standard Light Pole with Ground Mounted Facilities Cabinet Integrated into Existing Landscaping

5.5.3 Type 1 Installation Details and Specifications

- Use of Standard Street Light Poles
 - Refer to General Design Guidelines
- Color
 - Color for antenna shrouds and pole mounted equipment enclosures shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35% as approved by the City Engineer.

- Use of Privately Owned Utility Poles
 - Refer to General Design Guidelines Section 4.1.3

5.5.4 Type 3 Installations Details and Specifications

- Siting of New Wireless Support Structures
 - New wireless support structures should be sited as close as practicable in alignment with adjacent side or rear property lines perpendicular to the right-of-way.
- Color
 - Color for new wireless support structures, antenna shrouds, pole mounted equipment, and equipment cabinets within a transformer base shall match the color of the existing street light poles in the area—Federal Standard #595-C, Color 20040 powder coated finish to a gloss of 35% as approved by the City Engineer.


5.5.5 Ground Mounted Small Cell Equipment Details and Specifications

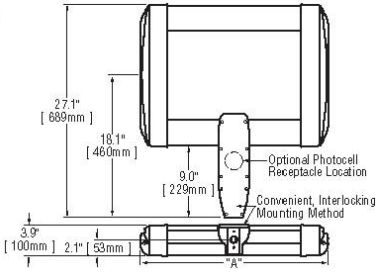
- Maximum Permitted Height of Ground Mounted Equipment Cabinets
 - The maximum permitted height for ground mounted equipment cabinets shall not exceed four (4) feet as measured from established grade at the foundation/pad.
- Siting of Ground Mounted Small Cell Equipment Cabinets
 - Ground mounted equipment cabinets may only be sited within areas of the right-of-way where required setbacks from the travelway and sidewalks and multi-use paths can be met.
- Color
 - Color for all ground mounted equipment cabinets shall be grey Federal Standard #26492 powder coated finish or as approved by the City Engineer.
- Additional Landscape Screening
 - Where space permits, equipment cabinets should either be incorporated into existing planting beds, or include a variety of evergreen and deciduous plant material at the foundation to screen the cabinets from view.
 - All proposed ground mounted equipment cabinets shall be reviewed for determination of applicability of the landscape screening requirement based on the surrounding context, and where required, for appropriateness of the proposed planting plan and materials by the City of Dublin Landscape Architect, Department of Parks and Recreation.

6. STANDARD DRAWINGS AND SPECIFICATIONS



6.1 Cree LED Luminaire--SL-01





# of LEDs	Dim. "A"
20	12.06"
40	12.06"
60	14.06"
80	16.06"
100	18.06"
120	20.06"
140	22.06"
160	24.06"
180	26.06"
200	28.06"
220	30.06"
240	32.06"

LIGHTING DESIGN CRITERIA
 MIN = 0.4 fc
 AVG/MIN RATIO = 3:1
 MAX/MIN RATIO = 6:1
 CROSSWALK AREA = 1.1-1.3 fc

GENERAL DESCRIPTION - LIGHT EMITTING DIODE (LED), TYPE II, III, IV OR V CUTOFF (AS SPECIFIED ON THE CONSTRUCTION DRAWINGS), ONE-PIECE EXTRUDED ARM. OPERATING VOLTAGE SHALL BE ** VOLTS, SINGLE PHASE.

** VOLTAGE REQUIREMENTS ARE TO BE SPECIFIED ON PLANS.

DISTRIBUTION - IES NEMA TYPE II, III, IV OR V CUTOFF.

APPROVED MANUFACTURER

- Cree LED: ARE-EDG-2M-DA-##-D-**-BZ-525-40K
- Cree LED: ARE-EDG-3M-DA-##-D-**-BZ-525-40K
- Cree LED: ARE-EDG-4M-DA-##-D-**-BZ-525-40K
- Cree LED: ARE-EDG-5M-DA-##-D-**-BZ-525-40K

NUMBER OF LED's TO BE SPECIFIED ON PLANS.
 ** VOLTAGE REQUIREMENTS ARE TO BE SPECIFIED ON PLANS.


CABLE - PROVIDE #10 XHHW, STRANDED COPPER 600V, 90 DEGREES CELSIUS CONDUCTORS. WIRE TO LUMINAIRE. SECURE TO LUMINAIRE ARM WITH CABLE GRIP PROVIDED WITH LUMINAIRE. PROVIDE ADEQUATE LENGTH TO EXTEND MIN. 2 FEET OUT OF HAND HOLE.

EXECUTION - ALL LUMINAIRES SHALL BE PLUMB AND LEVEL. ALL LAMPS SHALL BE OPERATIONAL PRIOR TO INSPECTION. ALL SURFACES SHALL BE CLEANED OF DIRT, DEBRIS, ETC. FREE OF SCRATCHES, DENTS, ETC.

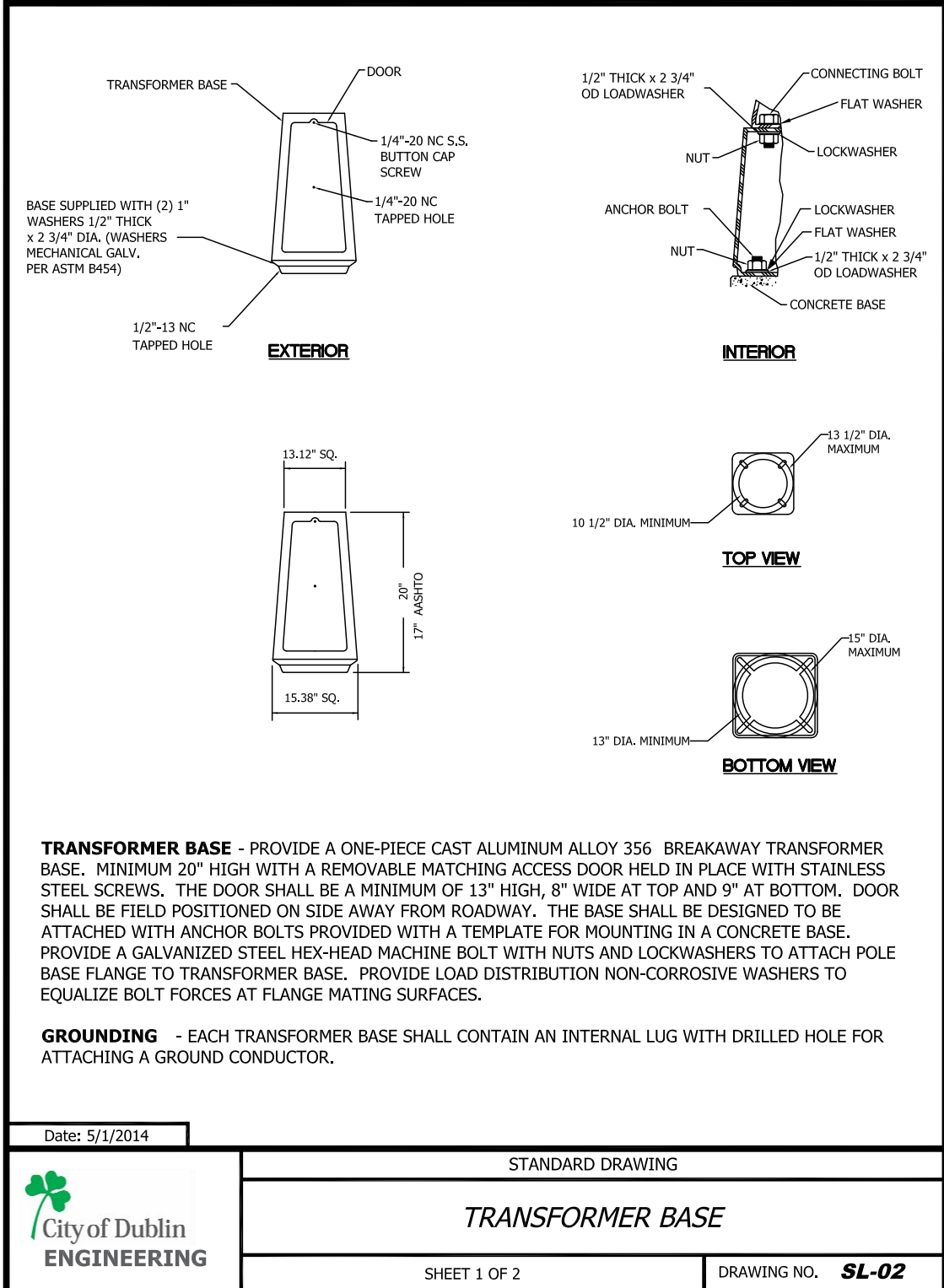
METHOD OF MEASUREMENT - SEE ODOT SPECIFICATIONS SECTION 625.

BASIS OF PAYMENT - SEE ODOT SPECIFICATIONS SECTION 625.

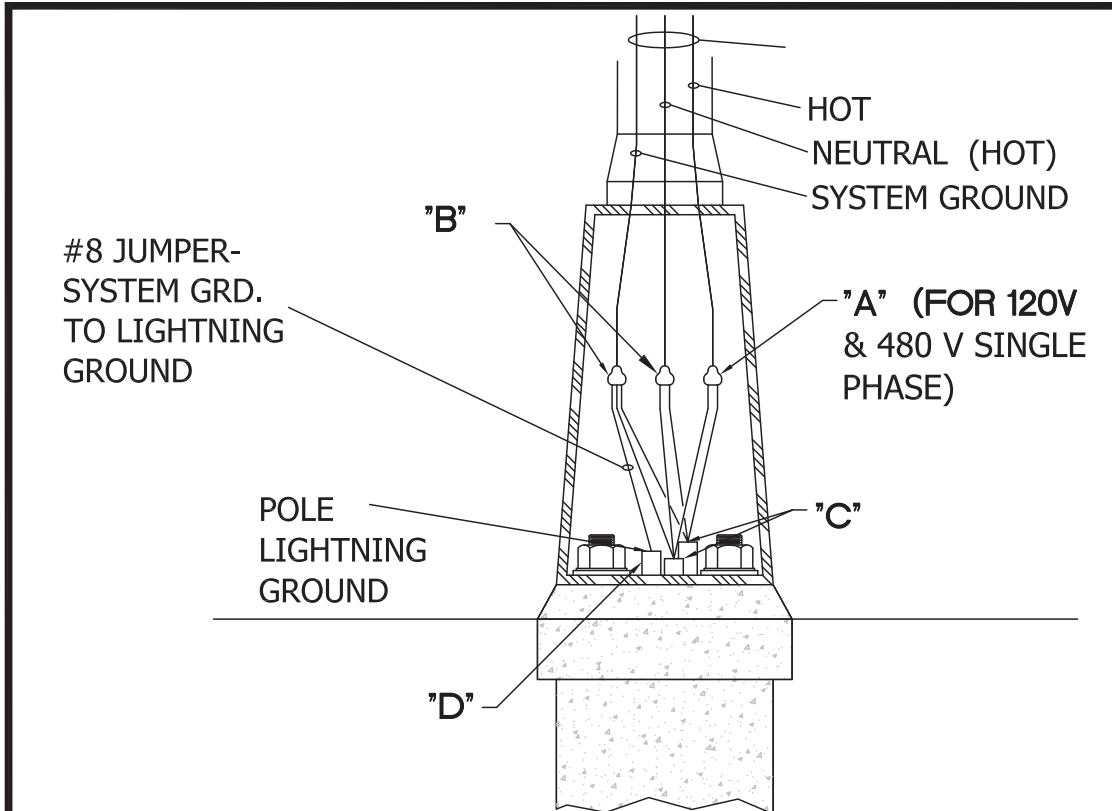
Date: 5/1/2014

	STANDARD DRAWING
<i>LUMINAIRE</i>	
SHEET 1 OF 1	DRAWING NO. SL-01

6.2 Transformer Base--SL-02 (1 of 2)



6.3 Transformer Base--SL-02 (2 of 2)



CONNECTIONS

- "A" FUSED - INLINE Y CONNECTOR KIT TYPE II WITH WATERPROOF BOOTS AND BREAKAWAY RECEPTACLE. FUSE AT 5 AMPS, ELASTIMOLD STYLE 82 SERIES OR HOMAC FY SERIES, BUSS KTK-R FUSE. (SINGLE PHASE =1, DOUBLE PHASE = 2 PER POLE)
- "B" UNFUSED-INLINE 7 CONNECTOR KIT TYPE III WITH WATERPROOF BOOTS AND BREAKAWAY RECEPTACLE, ELASTIMOLD 83 SERIES OR HOMAC DY SERIES. (SINGLE PHASE =2, DOUBLE PHASE = 1 PER POLE)
- "C" PROVIDE MOLDED PLASTIC OR RUBBER CAPPING DEVICE THAT ONLY PERMITS WIRE PASS THROUGH WHILE PREVENTING DIRT, WATER, ETC. ENTRY.
- "D" POLE LIGHTNING GROUND LUG UNINSULATED COPPER COMPRESSION TERMINAL UL LISTED FOR 600V. SIZE FOR WIRE SPECIFIED. DRILL, TAP, AND BOLT TO TRANSFORMER BASE BURNDY YA SERIES. BOND SYSTEM GROUND TO LIGHTNING ROD GROUND.

PROVIDE 2' SLACK IN ALL WIRING TO BRING CONNECTORS AND FUSE HOLDERS OUT THRU HANDHOLE.

Date: 5/1/2014

6.4 Light Pole--SL-03

POLE DIMENSION	A	B
TYPE 1	36'-8"	35'-0"
TYPE 2	31'-8"	30'-0"
TYPE 3	26'-8"	25'-0"

GENERAL DESCRIPTION - ALUMINUM ROUND TAPERED ANCHOR BASE WITH FINISH: COLOR SHALL BE FEDERAL STANDARD #595-C, COLOR 20040 AS APPROVED BY THE CITY ENGINEER. THE PAINT SHALL BE A POWDER PAINT FINISHED TO A GLOSS OF 35% (AT 60 DEGREES) SPUN ALUMINUM FINISH WITH POLE CAP, TRANSFORMER BASE, BASE COVER AND BOLT COVERS.

POLE CAP - PROVIDE AN ORNAMENTAL ALUMINUM ALLOY CAP FASTENED VIA STAINLESS STEEL SCREWS.

POLE DAMPER - PROVIDE A SECOND MODE VIBRATION DAMPER ATTACHED TO MIDPOINT VIA WELDING. LOCATE INSIDE POLE. FACTORY INSTALLED.

BASE FLANGE - PROVIDE A ONE PIECE CAST SOCKET OF ALUMINUM ALLOY 356 THE FLANGE SHALL BE JOINED TO THE SHAFT BY MEANS OF CONTINUOUS WELD EXTERNALLY AND INTERNALLY.

BASE COVER - PROVIDE BOLT COVERS OF ALUMINUM ALLOY 43 AND STAINLESS STEEL SCREWS FOR ATTACHMENT.

MISCELLANEOUS HARDWARE - ALL NUTS, BOLTS, AND WASHERS USED IN THE FABRICATION OF THE POLE SHALL BE GRADE 18-8 STAINLESS STEEL EXCEPT FOR ANCHORAGE HARDWARE.

WRAPPING - EACH POLE SHAFT SHALL BE WRAPPED WITH PROTECTIVE PAPER SECURED IN PLACE. ALL PARTS SHALL BE BOXED AND/OR BANDED.

POLE SHAFT - THE SHAFT SHALL BE ONE-PIECE SEAMLESS WITH A MINIMUM WALL THICKNESS OF 0.156 INCHES, ROUND TAPERED TUBE OF ALLOY 6063 AND SHALL BE FULL-LENGTH TEMPERED AFTER WELDING ON TOP BASE FLANGE TO PRODUCE THE T6 TEMPER. THE ENTIRE POLE ASSEMBLY SHALL BE RATED @ 90 MPH WITH A 30% GUST FACTOR FOR AN EPA. MINIMUM OF 2.7 TEMPLATE CUT FOR LUMINAIRE.

APPROVED MANUFACTURER - HAPCO SERIES 52, LEXINGTON/VALMONT OR APPROVED EQUAL.

BOLT CIRCLE DIA: 12"

TAPER: 4 1/2" TOP OD.
8" BASE OD.

MINIMUM WALL THICKNESS: 0.156"

MINIMUM EPA: 2.7

* ONE PHOTOCELL REQUIRED PER CIRCUIT

Date: 5/1/2014

STANDARD DRAWING

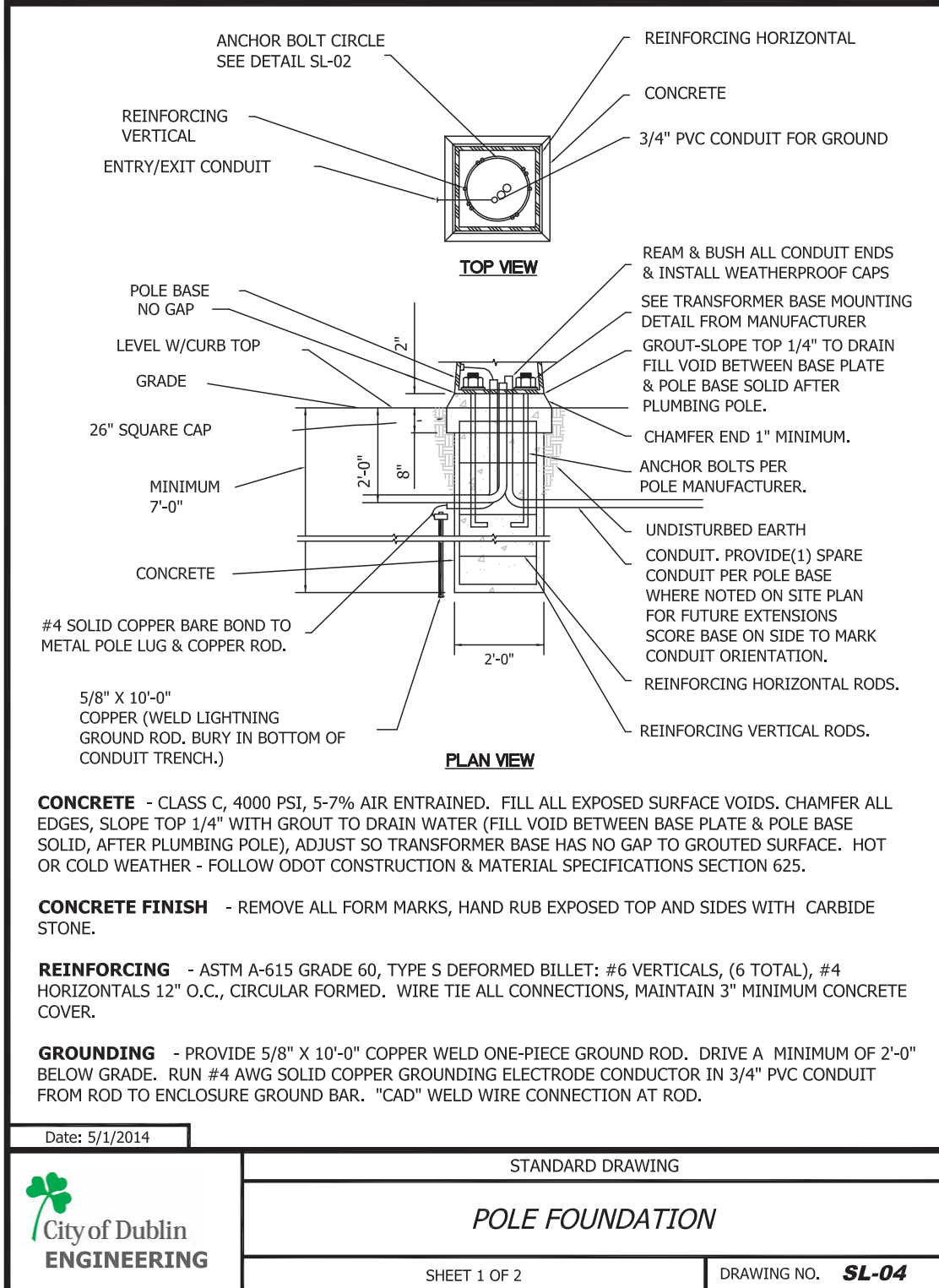
LIGHT POLE

SHEET 1 OF 1

DRAWING NO. **SL-03**



6.5 Pole Foundation--SL-04 (1 of 2)



6.6 Pole Foundation--SL-04 (2 of 2)

LUMINAIRE FUSING - REFER TO TRANSFORMER BASE DETAIL SL-02

GROUNDING LEG - REFER TO TRANSFORMER BASE DETAIL SL-02

ANCHORAGE - PROVIDE A SET OF FOUR-50,000 PSI-MIN YIELD STEEL STRENGTH ANCHOR BOLTS, THREADED, HOT-DIPPED GALVANIZED AT THE THREADED END FOR AT LEAST 10". THE BOLTS SHALL INCLUDE A 4" MINIMUM RIGHT ANGLE HOOK AT THE UNTHREADED END. PROVIDE GALVANIZED NUT, LOCKWASHERS AND FLATWASHERS FOR EACH BOLT.

GROUT - 10,000 PSI, HIGH STRENGTH, NON-SHRINK, NON-METALLIC, COMPLY WITH CRD-C-621, PROVIDE SAND COAT FINISH (PROVIDE SONNOGROUT OR APPROVED EQUAL).

WEATHERPROOFING - PROVIDE PENETRATING SURFACE APPLIED, 1 COAT CONCRETE WATERPROOFING AGENT. MATERIAL SHALL BE CLEAR PENETRATING, WATER BASED, ALKYALKOXYSILANE AND CONTAIN A MINIMUM OF 40% BY WEIGHT SOLIDS AND BE APPLIED PER MANUFACTURER'S DIRECTIONS. COVERAGE SHALL BE 150 SQ. FEET PER GALLON (PROVIDE HYDROZO ENVIROSEAL 40 OR APPROVED EQUAL). APPLY 1 COAT TO ALL CONCRETE EXPOSED SURFACES ABOVE GRADE.

FIELD CONDITIONS - CONSULT ENGINEER FOR ABNORMAL SOIL CONDITIONS SILTS AND CLAY WITH WATER LIMITS GREATER THAN 50%, HIGH ORGANIC SOILS, SHALLOW BEDROCK, ETC.

CONDUIT - SHALL BE HEAVY WALL 2" OR 3/4" PER GRAPHIC. RIGID NON-METALLIC SCHEDULE 40 PVC FOR USE ABOVE & BELOW GROUND OR CONCRETE ENCASED. RATED FOR 90 DEGREES CELSIUS CONDUCTORS AND USE IN DIRECT SUNLIGHT. MATERIAL SHALL BE UL LISTED AND COMPLY WITH NEMA TC2-1978 AND F.S. #WC-1094A. PROVIDE IN 10 FOOT SECTIONS. SEAL ALL JOINTS WATERTIGHT. GLUE JOINTS WITH PVC CEMENT. BUSH ALL ENDS. ALL BENDS SHALL USE LONG RADIUS PREFORMED ELBOWS. EXTEND CONDUIT TO MINIMUM 2'-0" BELOW GRADE. LOCATION TO BE COORDINATED WITH LANDSCAPING AND UTILITIES.

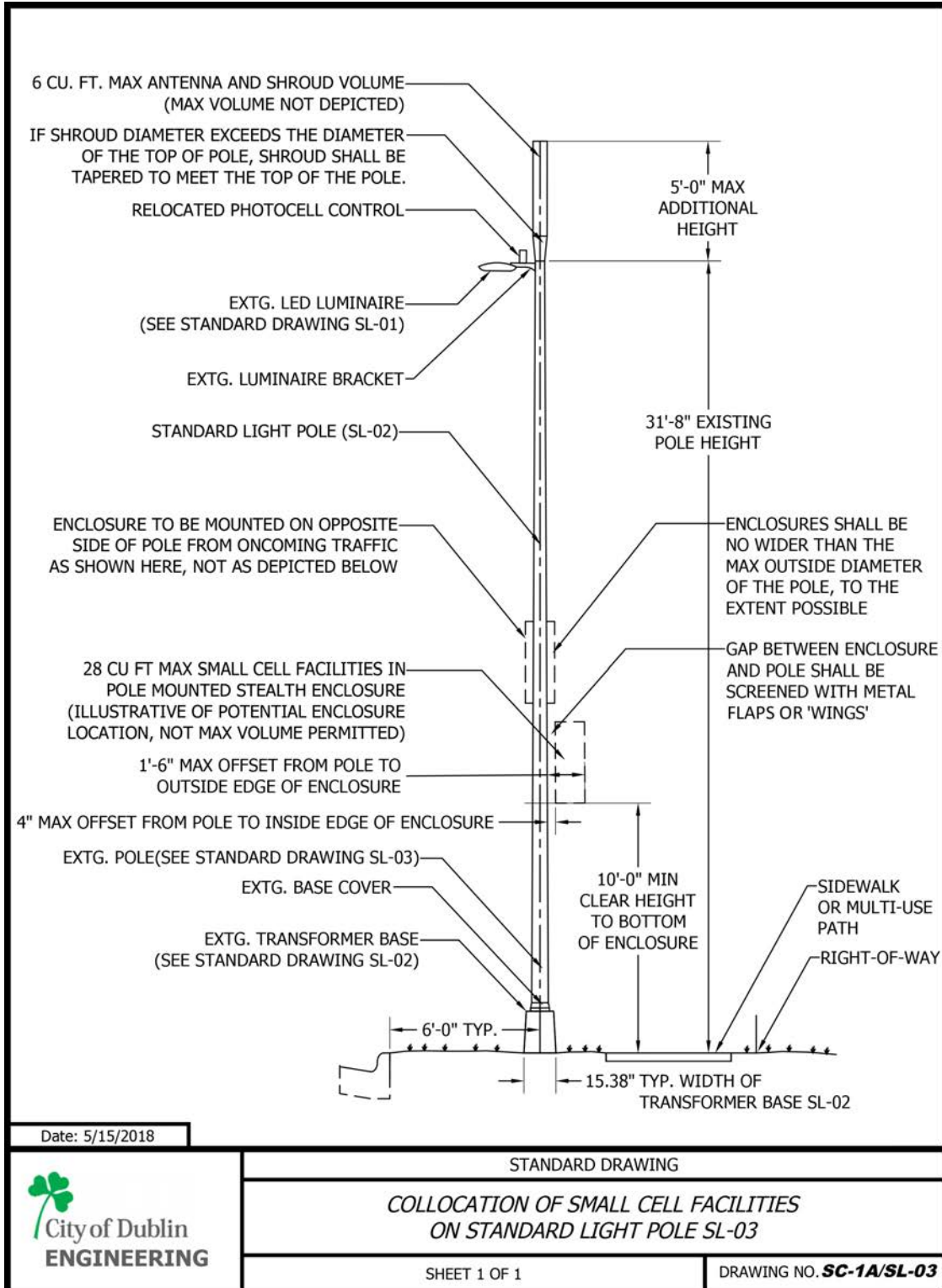
IF UNIT TYPE DUCT CABLE IS UTILIZED IN TRENCHES IN LIEU OF PVC CONDUIT, AT POLE FOUNDATIONS RETAIN THE PVC CONDUIT SPECIFIED ABOVE IT SHALL FUNCTION AS A SLEEVE FOR THE DUCT CABLE. OVERSIZE PVC CONDUIT EITHER 2 1/2" OR 3" AS REQUIRED BASED ON DUCT CABLE OUTSIDE DIAMETER.

CONDUIT CAPS - TERMINAL POINTS OF ALL CONDUIT AND DUCT CABLE SHALL BE SEALED PROMPTLY AFTER INSTALLATION BY MEANS OF A MOLDED PLASTIC OR RUBBER CAPPING DEVICE THAT ONLY PERMITS WIRE PASS THROUGH.

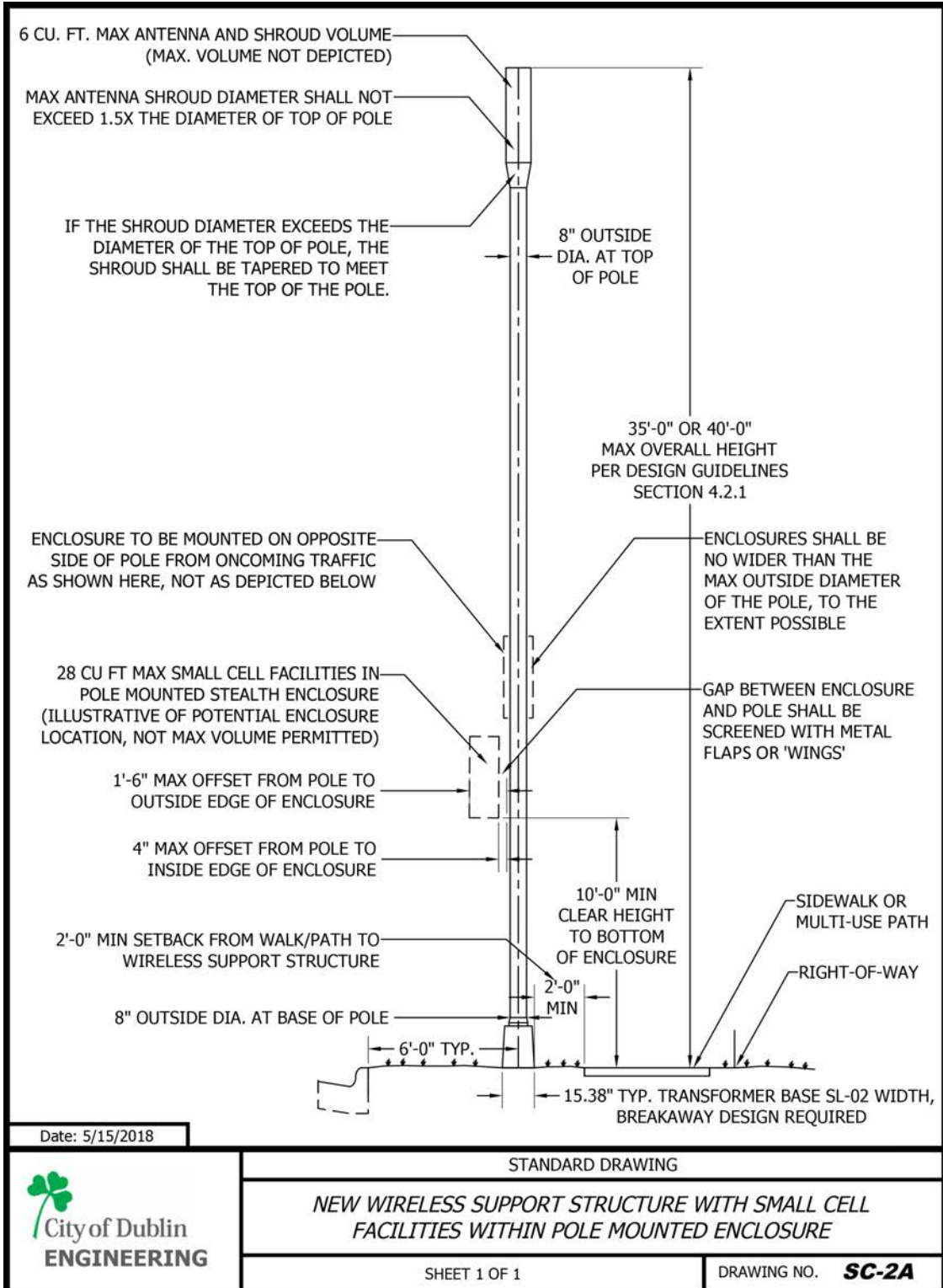
TYPICAL FOUNDATION LOCATION

Date: 5/1/2014	STANDARD DRAWING
POLE FOUNDATION	
SHEET 2 OF 2	DRAWING NO. SL-04

6.7 Collocation with Pole Mounted Small Cell Facilities Enclosure--SC-1A/SL-0



6.8 New Wireless Support Structure w/ Pole Mounted Facility Enclosure--SC-2A



6.9 New Wireless Support Structure w/ Facilities in Transformer Base--SC-2C

