



ORD 0522

ENGINEERING DESIGN MANUAL

SECTION 11: WIRELESS FACILITIES





Pflugerville

Chapter 284: Design Manual
Section 284.108





OUTLINE TOPICS: NETWORK NODES

- Texas Legislature Senate Bill 1004
- Texas Local Government Code (TLGC) Chapter 284
- City's Engineering Design Manual Ordinance 0522



Credit: ABJ: 15 Aug 2018



Senate Bill 1004

- Approved by Texas Legislature Effective
- September 1, 2017
-
- Established Chapter 284: Deployment of
- Network Nodes in Public Right-of-Way
-
- Regulations for City Requirements in
- Right-of-Way



Senate Bill 1004

- Regulate placement of new “Small Cell Wireless Infrastructure
- “Small Cell Nodes” or “Network Nodes” allow Access to 5G technology, for faster data
- Supports Cellphones usage in large crowds
- Increased Capacity needed for Smart Phones



TLGC Chapter 284

- Promote adoption and encourage competition by reducing barriers to enter Right-of-Way
- Empower wireless network providers to “density” network
- Provide an efficient method to add capacity
- Update regulations to account for new technology
- Establish uniform framework for Right-of-Way access
- Allow for reasonable municipal oversight and fees



TLGC Chapter 284

- Restricts Cities' ability to regulate placement and design of wireless network facilities in ROW
- Opens City poles, street lights traffic signals, and signs for the placement of wireless facilities
- Dictates timeline for review and consideration of permits
- Limits fees and rental rates that Cities may charge
- Requires that Cities not discriminate against wireless network providers in Right-of-Way



TLGC Chapter 284

City Requirements for Ch. 284 Implementation

- Prepare Right of Way Ordinance Updates ✓
- Established a Design Manual
- Pole Attachment Agreement (Optional) pending
- Application Forms ✓



TLGC Chapter 284

Design Manual Requirements Section 284.108

- Provide for Installation and Construction of Network Nodes and New Node Support Poles in Public Right-of-Way
- Industry Standard Pole Load Analysis required by Provider
- Placement for Network Node equipment maximum 8 feet
- Network Provider must comply with Design Manual



TLGC Chapter 284

City Goals in response to Ch. 284

- Protect safety, health and public welfare
- Limit the impact of wireless telecommunications infrastructure where the City has invested in the aesthetics of the area
- Adopt an Ordinance to regulate wireless infrastructure in the public Right-of-Way
- Continue to improve the process for efficiency of all involved



City Ordinance 0522

City Response to Implement Ch. 284

Staff is proposing Ordinance 0522:

- Update Engineering Design Manual to include New Section 11 to include Network Nodes in Public Right-of-Way
- Add Design Standard Details to complement Section 11 of the Engineering Design Manual



City Ordinance 0522

City Right-of Way Management Regulation

- Provides for Location Standards to minimize the construction of poles in the Right-of-Way
- Provides Operational Standards related to avoid signal interference with other licensed communications and existing facilities
- Provide Design Standards for antennae heights and camouflage techniques, equipment and environment



City Ordinance 0521

City Engineering Design Manual Regulation



- ★ Permitting Process and Submittal Documents
- ★ Design and Installation Standard
- ★ Establish Abandonment, Relocation and Removal
- ★ Considers Master Transportation Plan and
- ★ 5-YR Capital Improvements Plan



**City staff requests approval of the
Second Reading of the Ordinance
0522 of Pflugerville related to the
Engineering Design Manual**