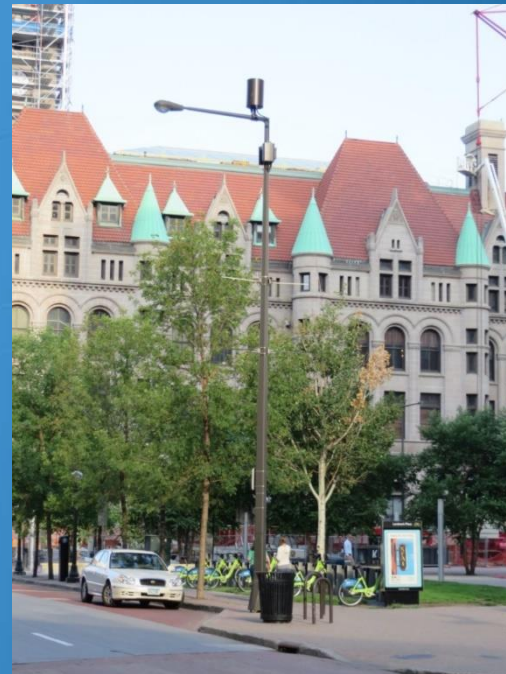


CITY COMMISSION

Article 24-04 Wireless Telecommunication Facility in the Public Right of Way



WiFi



Small Cell

Wireless Telecommunication Facilities in the Public Right-of Way

- Original Ordinance January 2017
- Guidelines were last updated by Resolution September 11, 2017 to accommodate WiFi in the Public Right-of-Way
- Current Ordinance and Guideline updates are needed to comply with an FCC Order dated September 26, 2018
- Effective date of the FCC Order is January 14, 2019

FCC Order Highlights

- State or Local Governments cannot prohibit deployment
- Fee Restrictions
 - Based on actual costs to administer and review the process
 - Must be reasonable to applicant
 - Fair between all competitors

FCC Order Highlights (Cont.)

- Aesthetics
 - Reasonable
 - No more burdensome than other infrastructure deployments
 - Must be published in advance
- Shot Clocks for review of application
 - 60 Days – Colocations on existing poles
 - 90 Days – Small Cell Wireless Facilities on new structures
 - 150 Days – Everything else

Current Fee Schedule (Adopted 2017)

- Application Fee:
 - Phase I
 - \$100 per site
 - Phase 2
 - \$400 (1 – 4 Sites)
 - \$300 (5 – 9 Sites)
 - \$200 (10 – 15 Sites)
- Annual Fee
 - \$1,500 per attachment to City owned Structure
- Master Attachment Agreement Fee
 - \$1,500 at 10 year renewal

Proposed Fee Schedule

- FCC Order presumes reasonable fees
 - Annual Fee: \$270 per site
 - Application fee: \$500 for up to 5 sites with an additional \$100 per site after 5
- Proposed Fees for City of Fargo installations
 - Annual Fee: \$175 per site
 - Minnesota has a State Statute limiting yearly charges of \$175
 - PWPEC is recommending following this fee structure
 - Application Fee: \$500 for up to 5 sites with an additional \$100 per site after 5

Proposed Fee Schedule (cont.)

- Master Attachment Agreement
 - 10 year agreement
 - Recommending to bill applicant legal costs of preparing and processing the agreement
 - This will come back to Commission after final adoption of the Ordinance
- Annual Fee: \$175 per site for new poles in public right of way.
 - This will come back to Commission after final adoption of the Ordinance

Applicant Responsibilities

- Applicant responsible for the following:
 - Upgrading footing and pole if needed to support new devices
 - Installing new LED fixture
 - Providing replacement poles in the event of a knockdown or other damage

Anticipated Installations

- Expecting a slow roll out with 15-25 installations per year per carrier
- Anticipating more requests once the FCC Order is effective
- National presentations advise that full build out could be estimated at 60 small cells per square mile per carrier
 - City is approx. 50 square miles and assume four carriers
 - Potential for 12,000 small cells in Fargo

Questions?

Different Providers



Different Providers



Examples of Proposed Small Cell Options in other Cities



EXISTING PHOTOGRAPHIC VIEW
NOT TO SCALE



PROPOSED PHOTOGRAPHIC SIMULATION
NOT TO SCALE

Examples of Proposed Small Cell Options in other Cities



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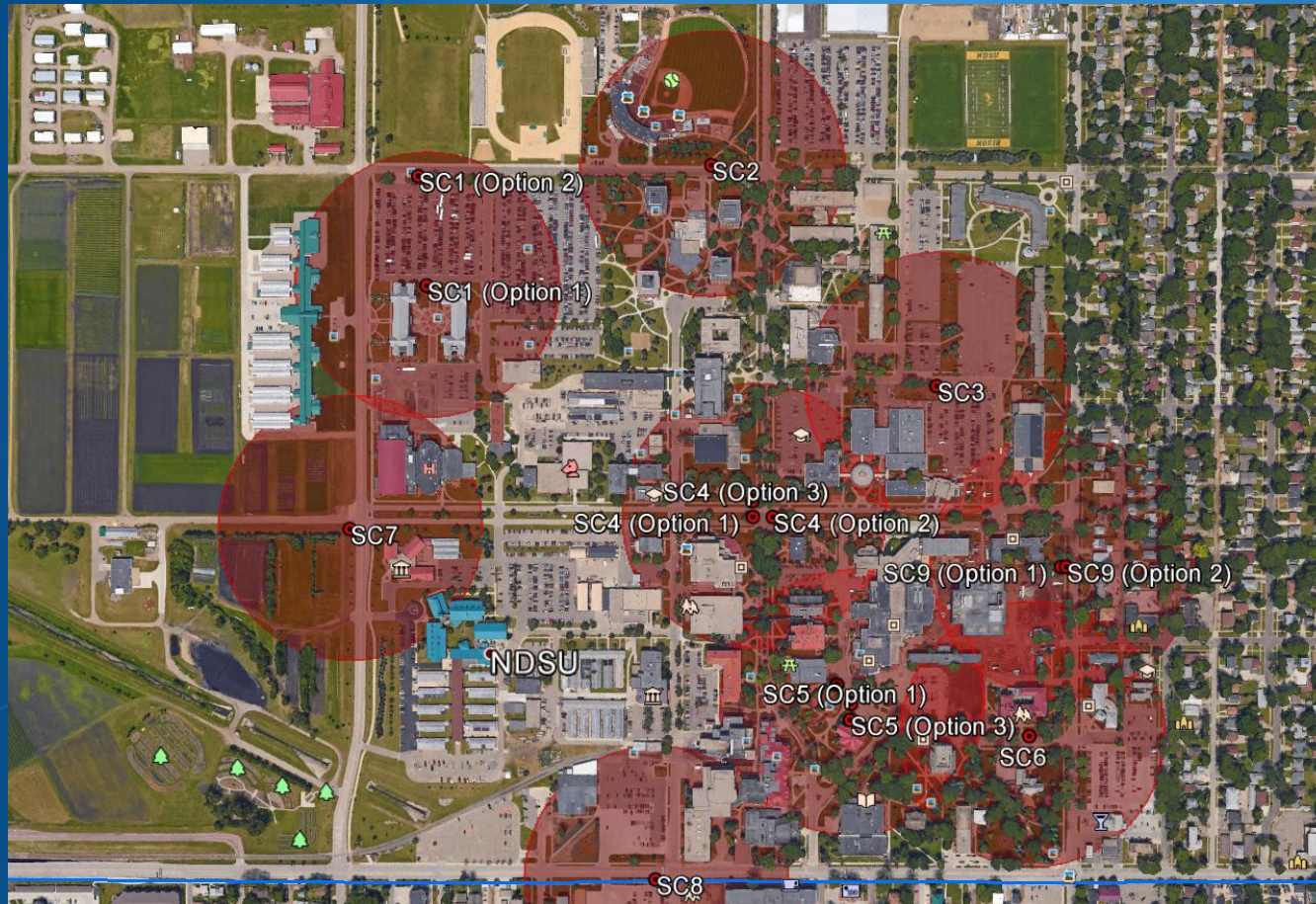


PROPOSED PHOTOGRAPHIC SIMULATION
NOT TO SCALE

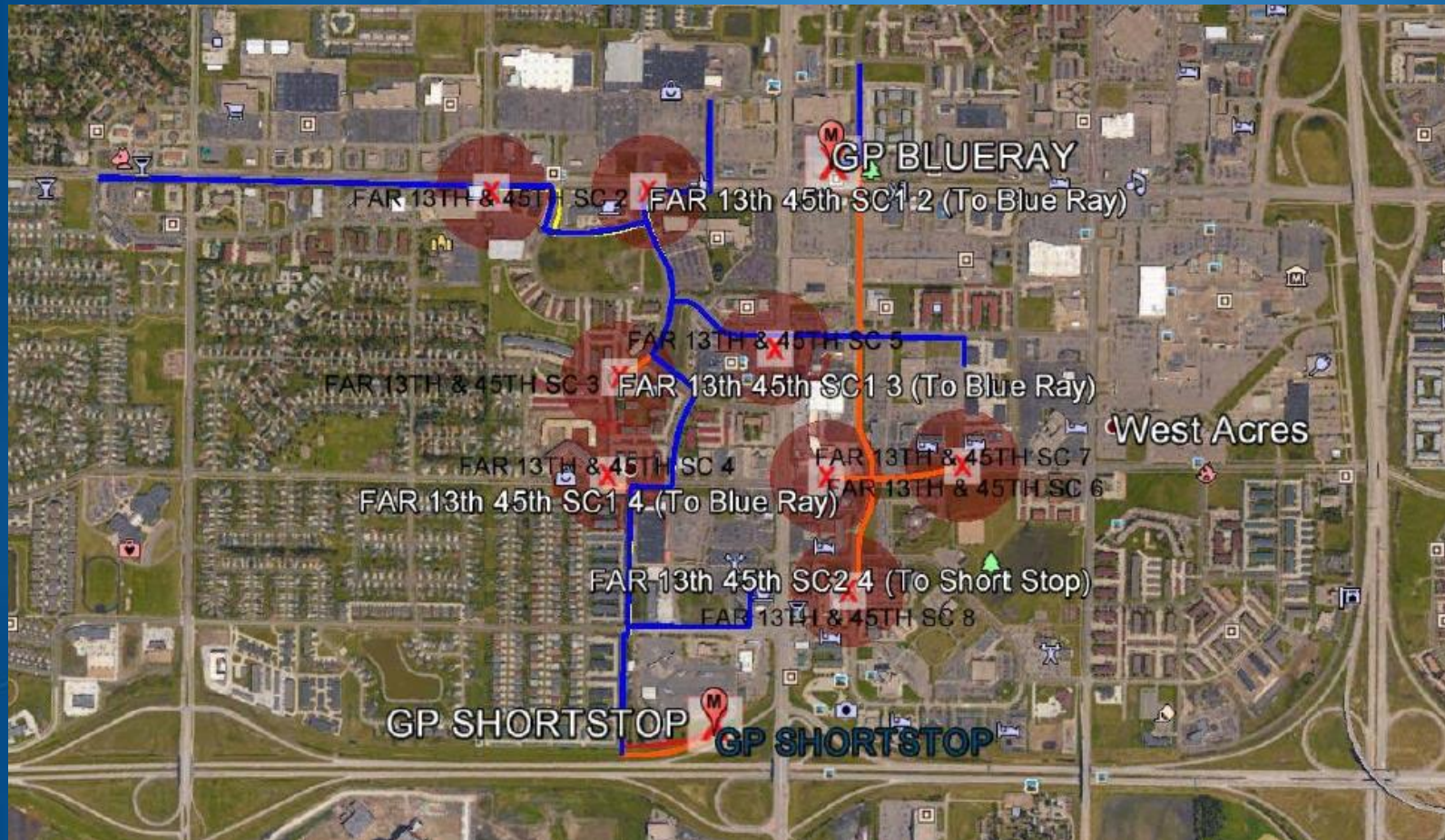
Example of Proposed Small Cell in ROW not attached to existing pole.



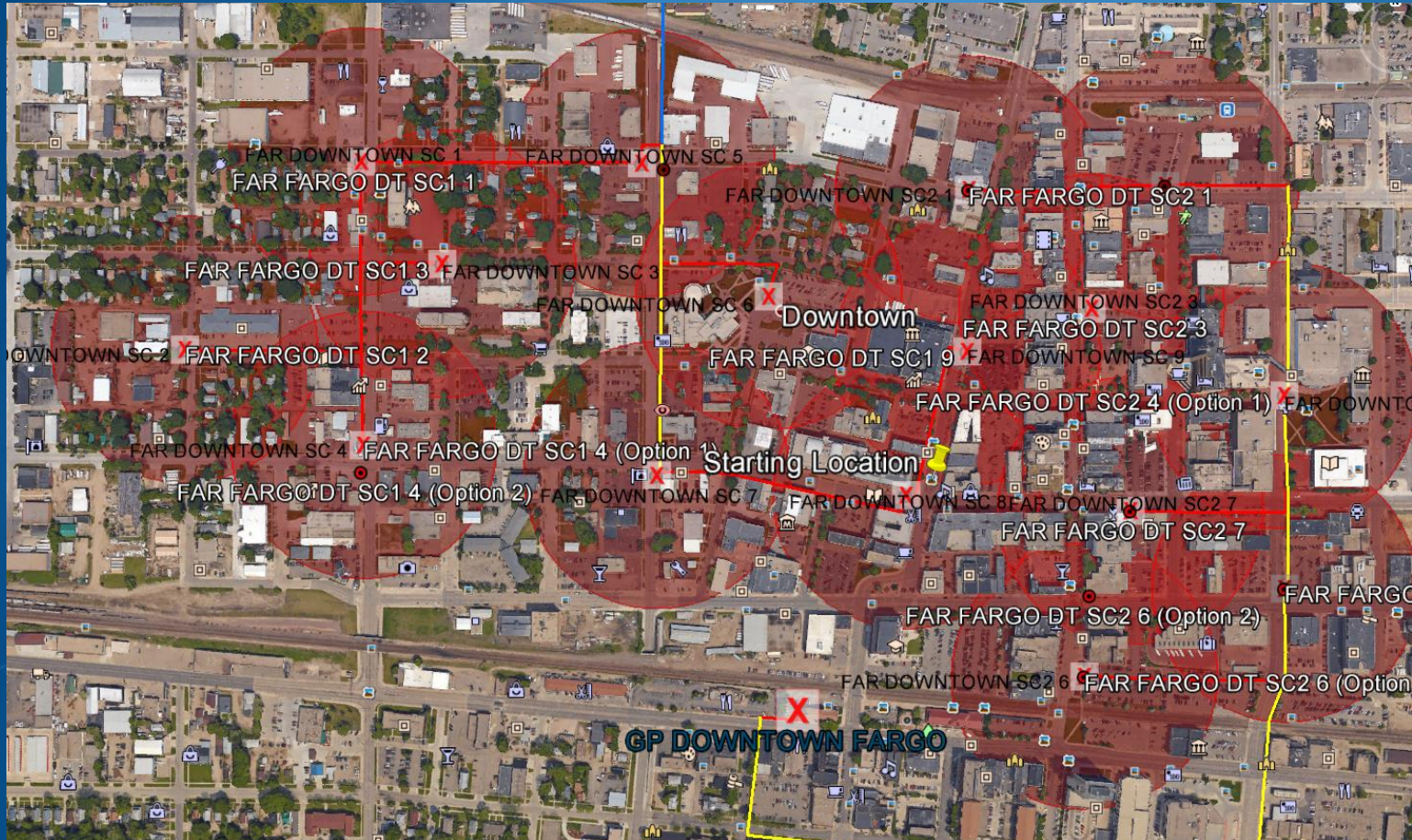
NDSU Locations



13th Avenue South and 45th Street Locations

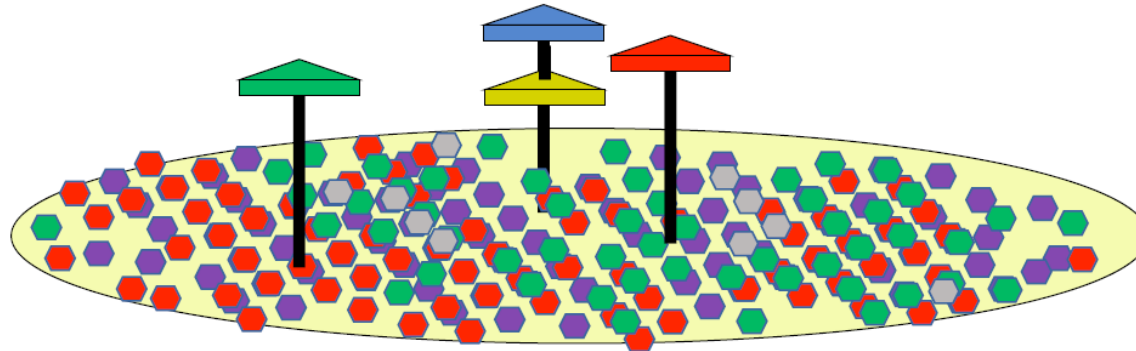


Downtown Locations





Why so many?



- **Estimated:** 60-ish small cell per sq. mile per carrier in the next 5-ish years, plus ~8 mi new fiber in each sq. mile
 - **Example:** 12 sq mi city:
60 small cells per square mile x 4 national carriers x 12 = ~2,880 small cells plus ~96 miles of new fiber
- **Why:** Reduce latency, increase capacity, limit coverage, bathroom coverage, fixed wireless
- **Macro Cells:** Many will remain to provide 'umbrella' coverage