

Small Cell Network Node Deployments

**Park and Recreation Board
Briefing
February 14, 2019**

**Robert M. Perez, Interim Director
Department of Public Works
City of Dallas**



Presentation Overview

- Background/History
- Operational Impacts
- Next Steps



Background/History

- What is a Small Cell Network Node?
 - Equipment at fixed locations that enables wireless communication between user equipment and a communications network
 - Small Cells Nodes are used to increase wireless coverage or network capacity
 - Support both 4G and 5G deployments
- Entities currently deploying small cell equipment in Dallas include AT&T, Verizon, Crown Castle, Sprint, Extenet, and T-Mobile

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Background/History

- Texas State Senate Bill (SB) 1004 became effective September 1, 2017
 - Regulated Texas cities on:
 - Fees to providers for access to right of way (ROW)
 - Timelines for review and approval of applications for small cell equipment in ROW
 - Restricted installation of new support poles in ROW adjacent to municipal parks

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Operational Impacts

- As a result of SB 1004, City staff developed a “Small Cell Design Manual” which became effective on September 1, 2017
- Processes to review, install, and invoice for small cell equipment spans multiple departments
 - Developed a core review team to streamline deployment
 - Will include Park Department staff for park-related sites
 - Permitting process inclusive of Oncor

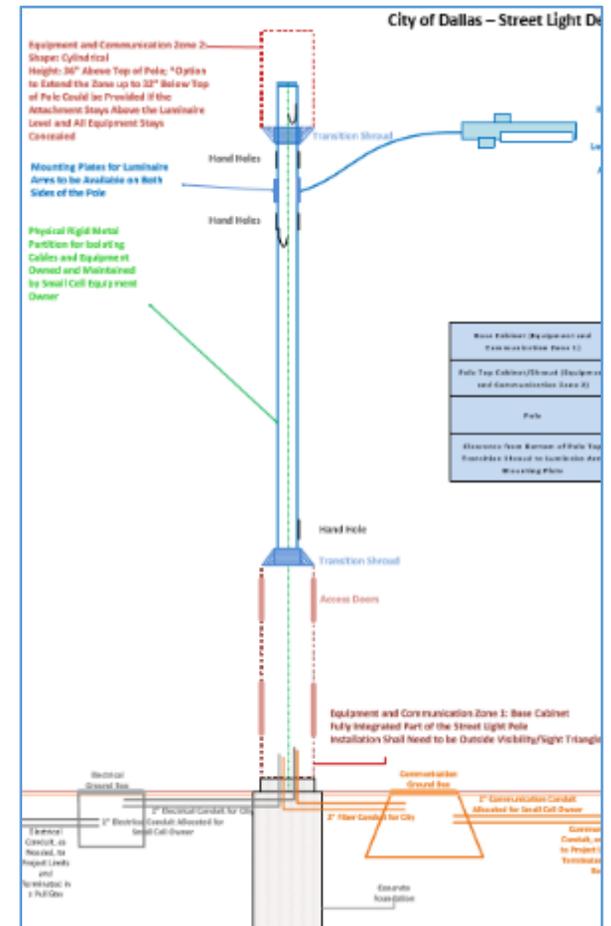
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Operational Impacts

- Majority of approved deployments have been on utility poles
- Challenge with deployment in Historic Districts
- Designed an LED Street Light “Smart Pole”
- Encases all small cell equipment
- Capable of adding cameras



Operational Impacts

- Examples of Smart Pole Pilots



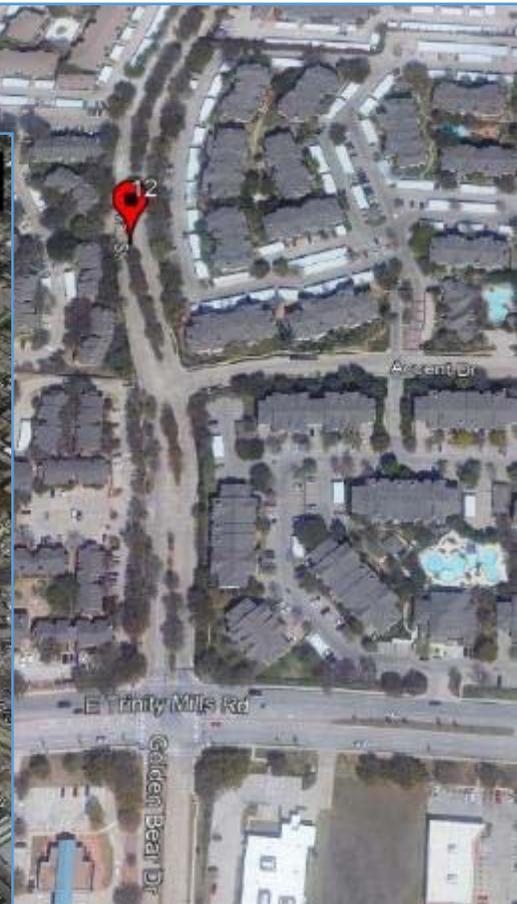
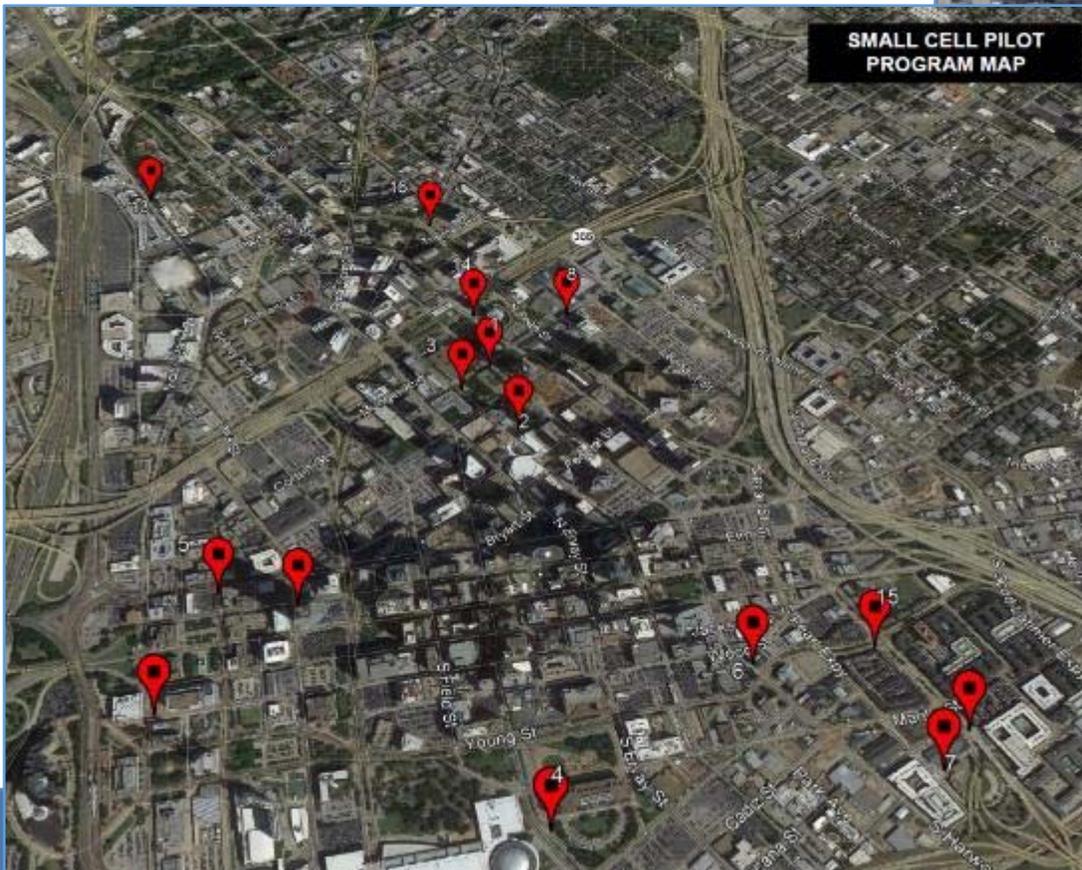
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Operational Impacts

- Locations of Smart Pole Pilots



Operational Impacts

- Residential Smart Pole Pilots
(photo simulation)



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Next Steps

- Gauge the Park Board's desire for smart poles/small cells in park's ROW
- Work with the Parks and Recreation Department to explore "smart pole" designs in Parks ROW
 - Safety benefits include lighting, increased cellular/data coverage, and potential addition of cameras
- Take feedback from this and future Park Board meetings to guide meetings with small cell providers

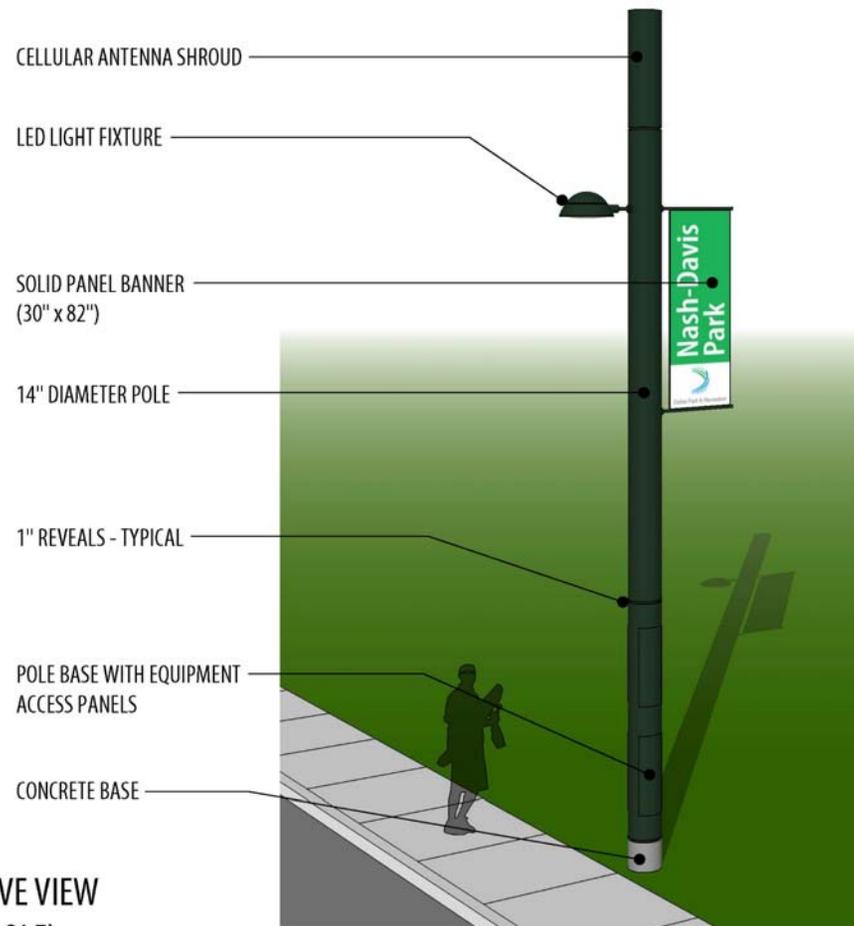
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Next Steps

- Template for smart pole/small cell in Dallas park



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Operational Impacts

- As of November 30, 2018, COD approved 551 applications for small cell sites

Applicant	Applications Received	Applications Approved	Applications Under Review	Applications Incomplete	Applications Denied
AT&T Mobility	354	253	24	75	2
Crown Castle NG LLC	70	40	28	2	0
ExteNet Systems, Inc	135	114	3	18	0
Mobilitie, LLC	129	100	0	29	0
T-Mobile	2	1	0	1	0
Verizon Wireless	88	43	25	20	0
Grand Total	778	551	80	145	2

