

### LAND USE PRE-APPLICATION CONFERENCE

### Thursday, February 1, 2018

### City Hall 22500 Salamo Road

#### Willamette Conference Room

1:30 pm Proposed collocation of small cell antennas located on utility and/or light poles within the City right-of-way. Applicant proposes approximately 12-20 node locations within West Linn.

Applicant: Verizon Wireless/Tilson Technology, Sue Leslie

Subject Property Address: City Right-of-Way

Neighborhood Assn: All

#### **Planner: Jennifer Arnold**

Project #: PA-18-03





#### **PRE-APPLICATION CONFERENCE**

	THIS SECTION FOR STAFF	COMPLETION
Conference Date:	TIME: /: 30	PROJECT #: PA-18-03
STAFF CONTACT: Span fer	Amold	FEE: 350

Pre-application conferences occur on the first and third Thursdays of each month. In order to be scheduled for a conference, this form including property owner's signature, the pre-application fee, and accompanying materials must be submitted at least 14 days in advance of the conference date. Twenty-four hour notice is required to reschedule.

Address of Subject Property (or map/tax lot): City's Right of Way

Brief Description of Proposal: Verizon Wireless is proposing collocation of small cell antennas located on utility and/or light poles within the city's Right of Way. Verizon is proposing approximately 12-20 node locations within the city of West Linn.

Applicant's Name:	Verizon Wireless-C/O Tilson Technology Inc. Attn: Sue Leslie		
Mailing Address:	520 SW 6 <sup>th</sup> Ave Suite	1250 Portland, OR	97204
Phone No:	( <b>503</b> )936-5933	Email Address:	eleslie@tilsontech.com

Please attach additional materials relating to your proposal including a site plan on paper  $\underline{up}$  to 11 x 17 inches in size depicting the following items:

- > North arrow
- ➢ Scale
- Property dimensions
- Streets abutting the property
- Conceptual layout, design and/or building elevations
- Access to and from the site, if applicable
- Location of existing trees, highly recommend a tree survey
- Location of creeks and/or wetlands, highly recommend a wetland delineation
- Location of existing utilities (water, sewer, etc.)
- Easements (access, utility, all others)

Please list any questions or issues that you may have for city staff regarding your proposal: We would like to verify that a Franchise agreement is necessary to occupy the city's Right of Way.

By my signature below, I grant city staff <u>right of entry</u> onto the subject property in order to prepare for the pre-application conference.

Property owner's signature

Date

# Verizon Small Cell Program



January, 2018

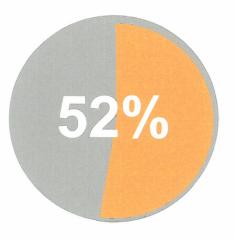


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Why the Need?

From 2010 – 2016: Mobile data use 135 times





52%+ American Households Wireless-only

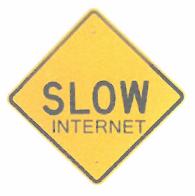
Average American Household: 13 Connected Devices





# What is The Impact of Insufficient Capacity?

**Slow Data Speeds** 





Increased Video Buffering Times

> Disruption to Video Calls





Dropped or Incomplete Calls

> Connection Problems





240/6.34 44 5-1 23

# Why Deploy Small Cell? Gaps in Coverage

### **Terrain Challenges**



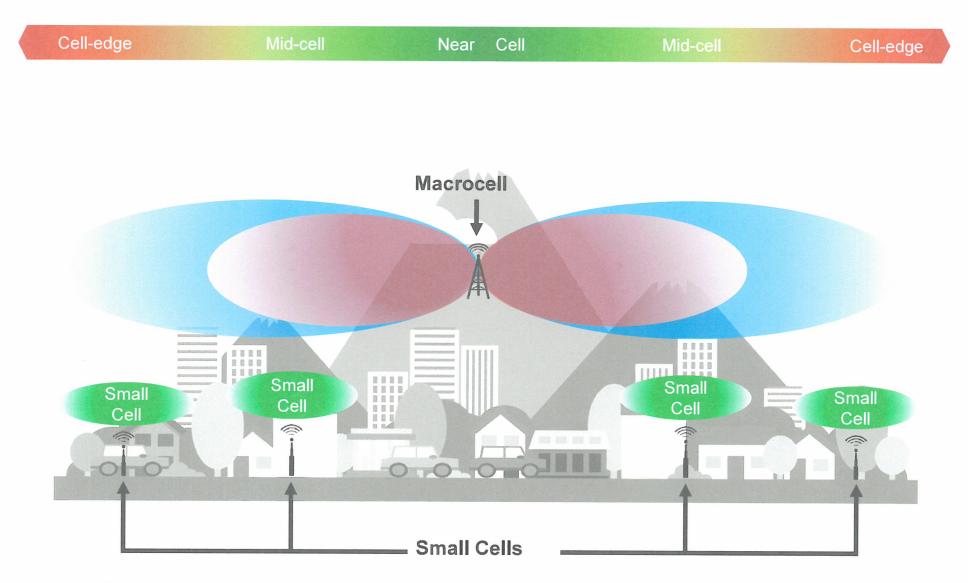
## **Tall Buildings**

## Large Residential Areas





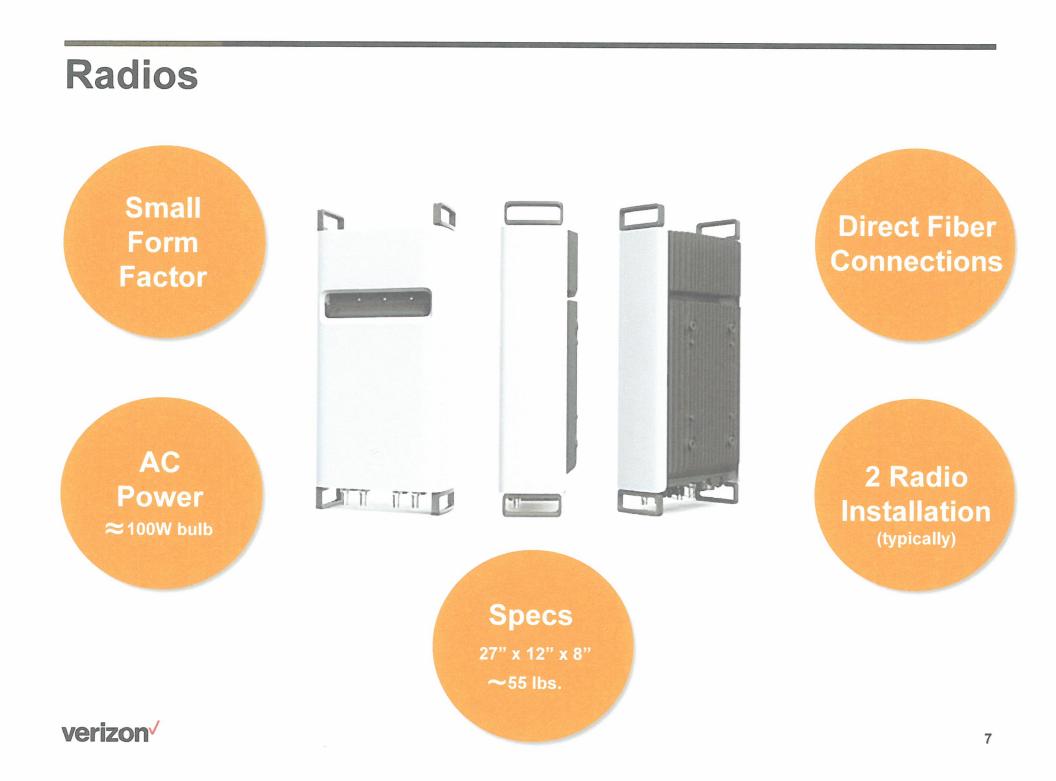
# What is a Small Cell?

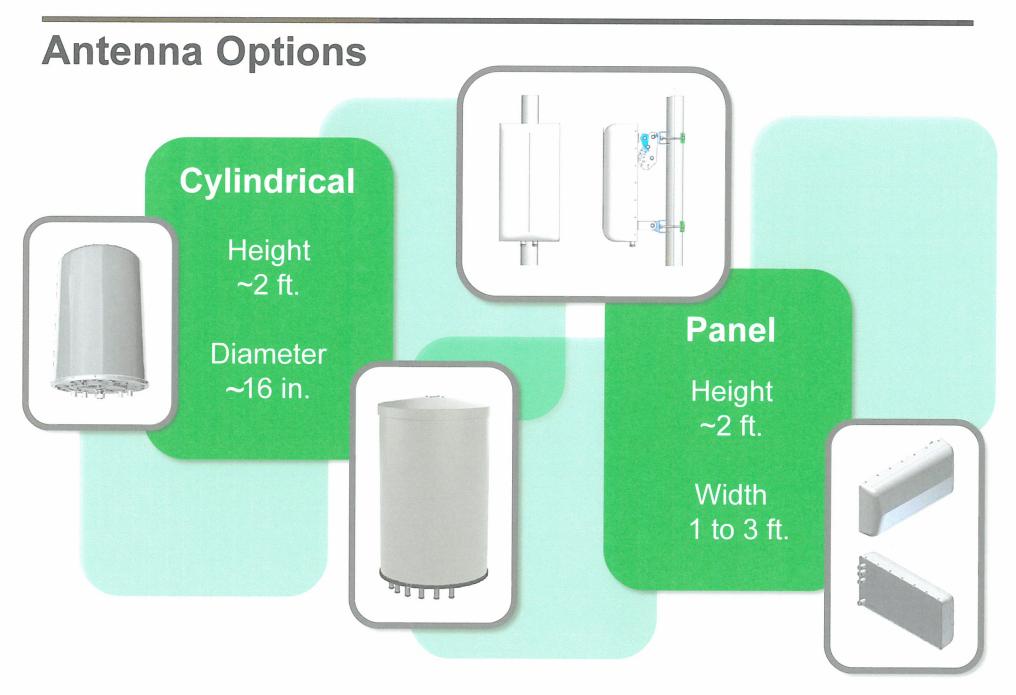


verizon<sup>/</sup>

# **Small Cell Components** Antennas **Fiber & Coax** Conduit **Dark Fiber** (leased from 3<sup>rd</sup> party) Power Conduit **Radios & Fiber Termination Box** Power **Disconnect**

### **verizon**<sup>/</sup>







# **Design Options: Utility Poles**



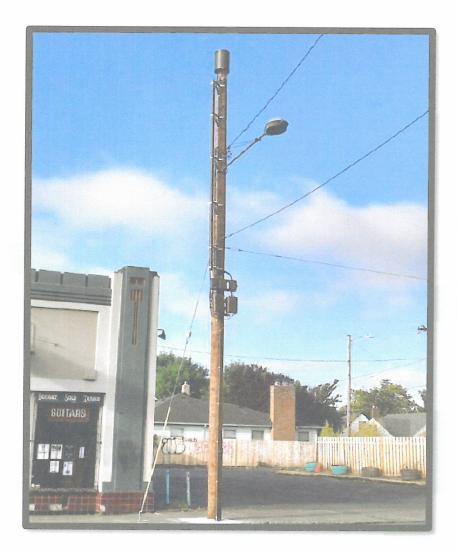
Seattle, WA (Greenlake)

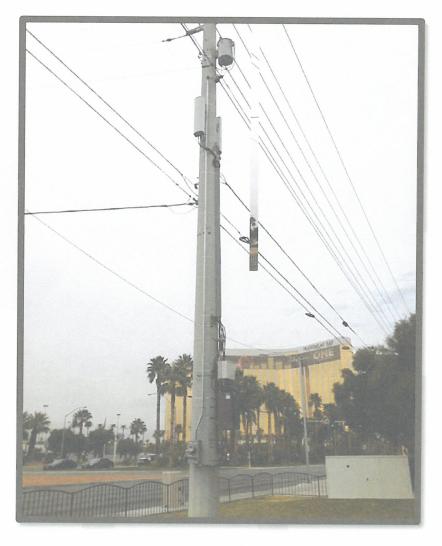


Seattle, WA (Greenlake)

### verizon ⁄

# **Design Options: Utility Poles**





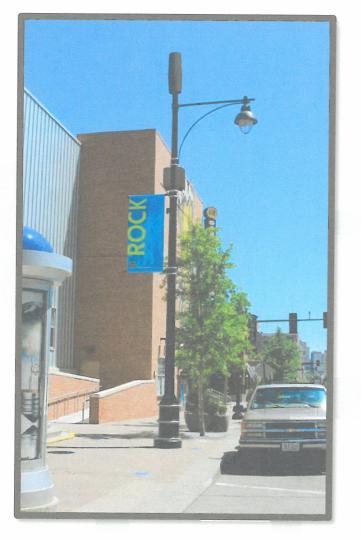
Las Vegas, NV

Portland, OR

verizon /

# **Design Options: Street Lights**





Minneapolis, MN

Kansas City, KS



### **Design Options: Pole Replacement - Base Mount**



Denver, CO



Equipment Inside of Pole Base

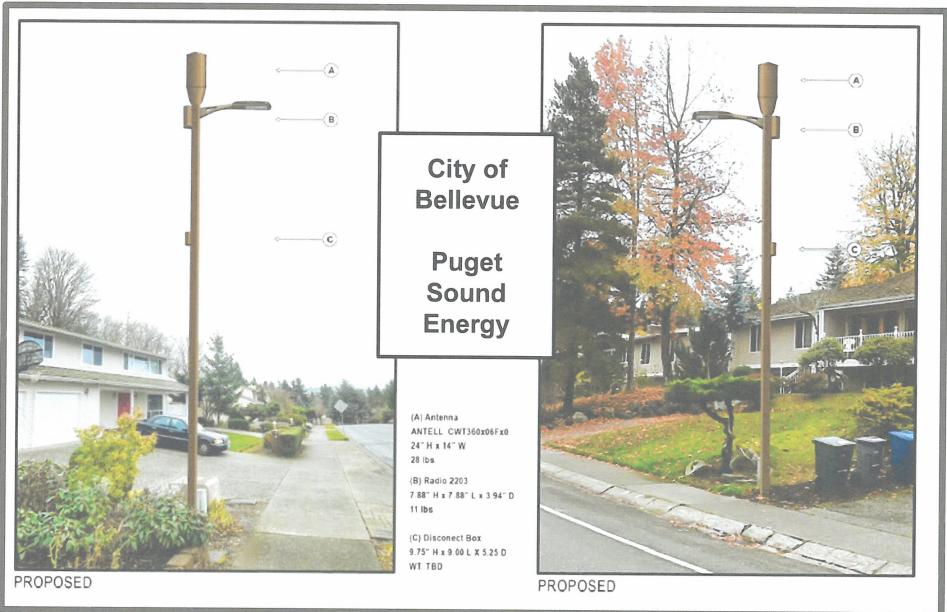


# **Proposed Light Standards**



### **verizon**<sup>√</sup>

# **Proposed Light Standards**



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# Thank you.

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