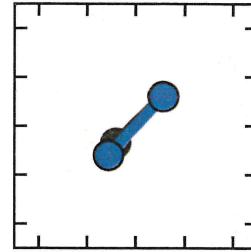




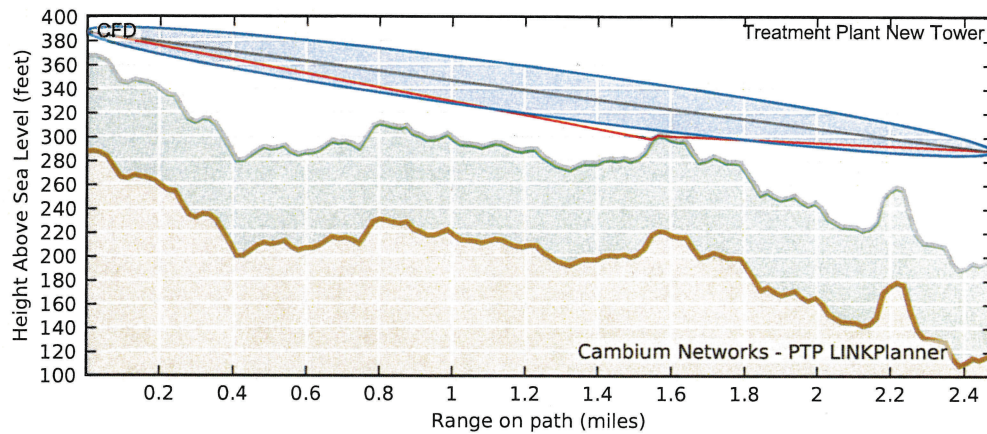
CFD to Treatment Plant New Tower



Equipment: Cambium Networks PTP49600 Connectorized

Radio Waves 2ft High Performance Dual-Polar
Parabolic HPD2-4.7 @ 100 ft

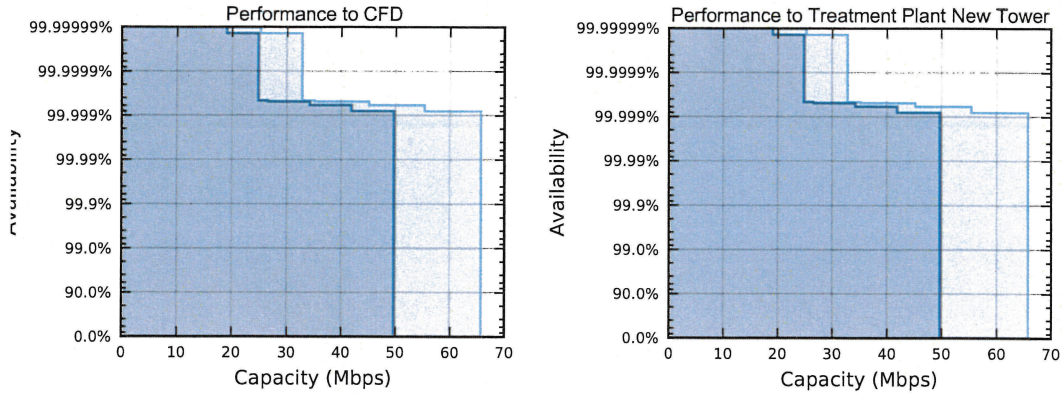
Radio Waves 2ft High Performance Dual-Polar
Parabolic HPD2-4.7 @ 170 ft



	Performance to CFD	Performance to Treatment Plant New Tower
Mean IP	49.8 Mbps	49.8 Mbps
IP Availability	100.0000 % for 1.0 Mbps	100.0000 % for 1.0 Mbps

Link Summary			
Link Length	2.479 mi.	System Gain	164.43 dB
Band	4.9 GHz	System Gain Margin	46.01 dB
Regulation	USA, Canada	Mean Aggregate Data Rate	99.6 Mbps
Modulation	Adaptive	Annual Link Availability	100.0000 %
Bandwidth	10 MHz	Annual Link Unavailability	0 secs/year
Total Path Loss	118.42 dB	Prediction Model	Vigants-Barnett

Performance Charts



High Capacity, assumes there is no load in the other direction
 Symmetrical Capacity, assumes a saturated load in the other direction

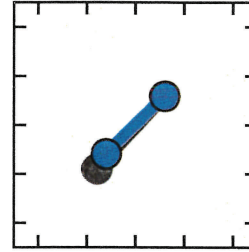
Climatic Factors, Losses and Standards

Terrain Roughness	23.93 feet	Link Type	Line-of-Sight
Climatic Factor	1.0	Excess Path Loss	0.00 dB
C Factor	2.61	Atmospheric Gasses	ITU-R P.676-7, ITU-R P.835-4
Temperature	46.7° F	Diffraction Loss	ITU-R P.526-10
0.01% Rain rate	41.95 mm/hr	Propagation	Vigants-Barnett
Free Space Path Loss	118.38 dB	Rain Rate	ITU-R P.837-5
Gaseous Absorption Loss	0.04 dB	Refractivity Index	ITU-R P.453-9

Part Number	Qty	Description
(no part number)	2	Radio Waves 2ft High Performance Dual-Polar Parabolic HPD2-4.7
WB2907	2	LPU End Kit PTP 600 (2 kits required per Link)
WB3176	2	328 ft (100 m) Reel Outdoor Copper Clad CAT5E (Recommended for PTP)
WB3226	1	PTP 49600 (5 MHz) Connectorised - Link Complete
WB3262	1	PTP 49600 Software Key 5 --> 10 MHz Link



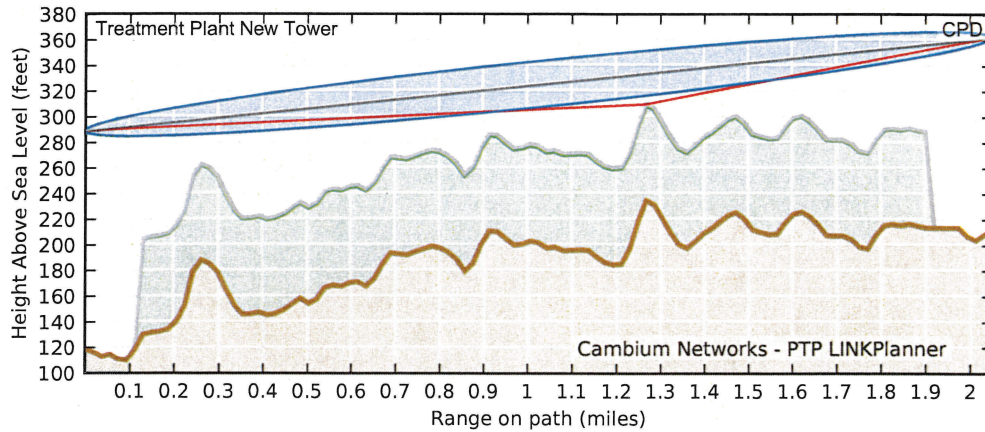
CPD to Treatment Plant New Tower



Equipment: Cambium Networks PTP49600 Connectorized

Radio Waves 2ft High Performance Dual-Polar
Parabolic HPD2-4.7 @ 170 ft

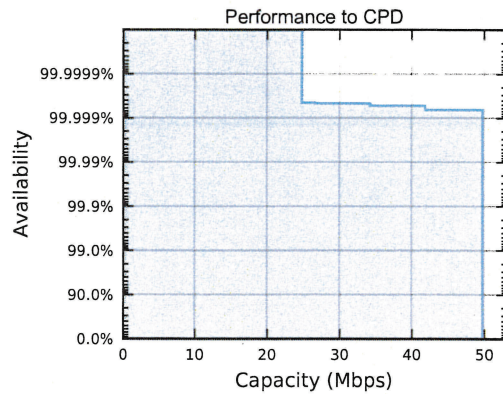
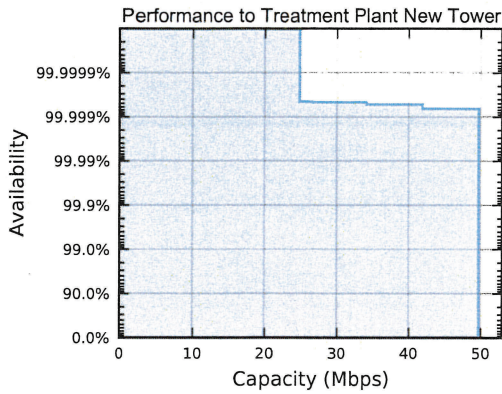
Radio Waves 2ft High Performance Dual-Polar
Parabolic HPD2-4.7 @ 150 ft



	Performance to Treatment Plant New Tower	Performance to CPD
Mean IP	49.8 Mbps	49.8 Mbps
IP Availability	100.0000 % for 1.0 Mbps	100.0000 % for 1.0 Mbps

Link Summary			
Link Length	2.049 mi.	System Gain	162.72 dB
Band	4.9 GHz	System Gain Margin	45.96 dB
Regulation	USA, Canada	Mean Aggregate Data Rate	99.6 Mbps
Modulation	Adaptive	Annual Link Availability	100.0000 %
Bandwidth	10 MHz	Annual Link Unavailability	0 secs/year
Total Path Loss	116.76 dB	Prediction Model	Vigants-Barnett

Performance Charts



Climatic Factors, Losses and Standards

Terrain Roughness	23.20 feet	Link Type	Line-of-Sight
Climatic Factor	1.0	Excess Path Loss	0.00 dB
C Factor	2.71	Atmospheric Gasses	ITU-R P.676-7, ITU-R P.835-4
Temperature	46.7° F	Diffraction Loss	ITU-R P.526-10
0.01% Rain rate	41.95 mm/hr	Propagation	Vigants-Barnett
Free Space Path Loss	116.73 dB	Rain Rate	ITU-R P.837-5
Gaseous Absorption Loss	0.03 dB	Refractivity Index	ITU-R P.453-9

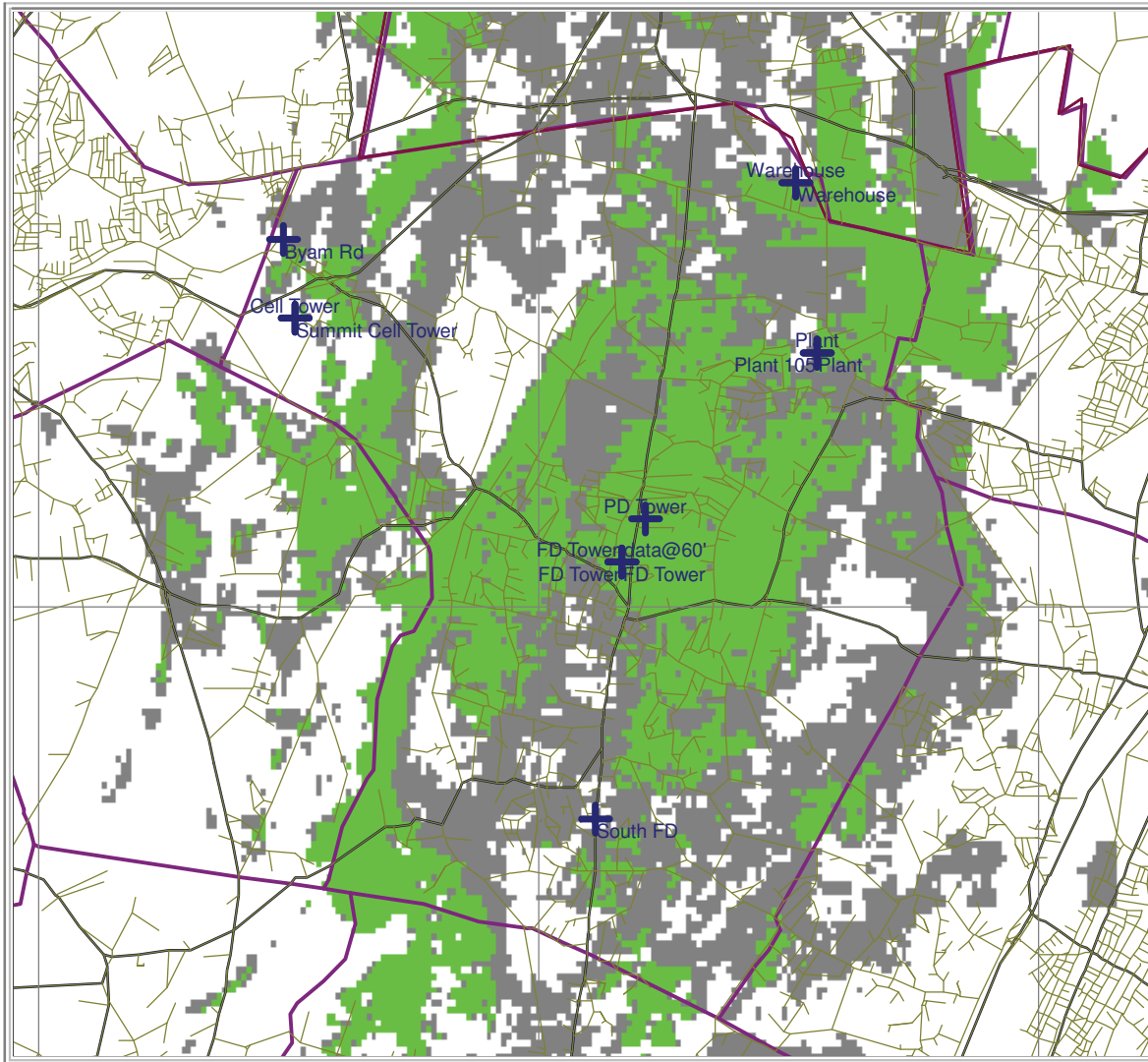
Part Number	Qty	Description
(no part number)	2	Radio Waves 2ft High Performance Dual-Polar Parabolic HPD2-4.7
WB2907	2	LPU End Kit PTP 600 (2 kits required per Link)
WB3176	2	328 ft (100 m) Reel Outdoor Copper Clad CAT5E (Recommended for PTP)
WB3226	1	PTP 49600 (5 MHz) Connectorised - Link Complete
WB3262	1	PTP 49600 Software Key 5 --> 10 MHz Link

Disclaimer

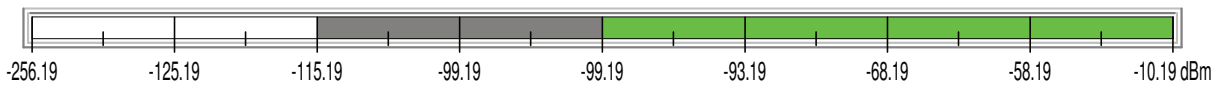
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Police HQ Talk Out to Portable Medium Building PD

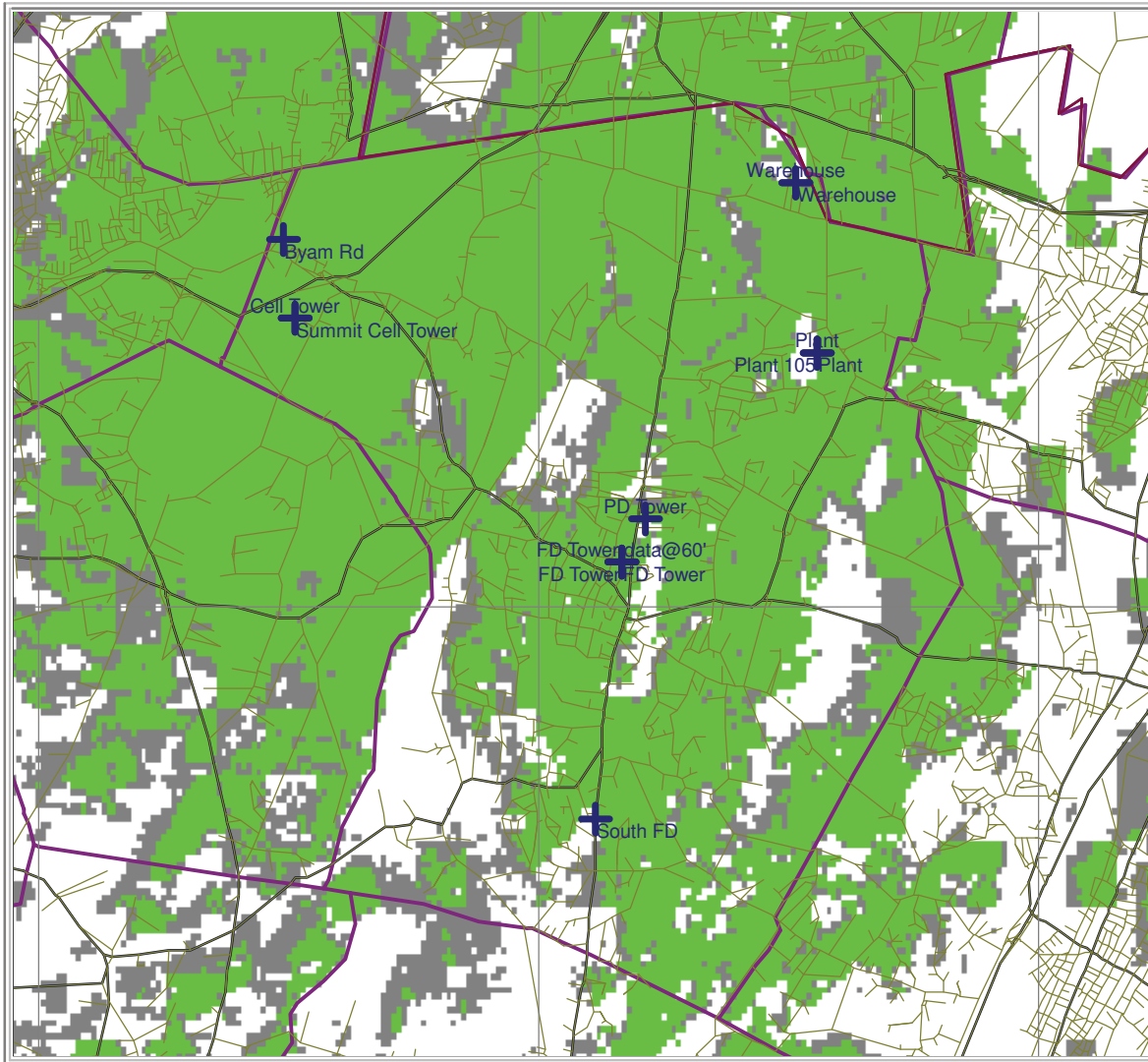


FOR REFERENCE ONLY - This document does not imply coverage or performance guarentees.

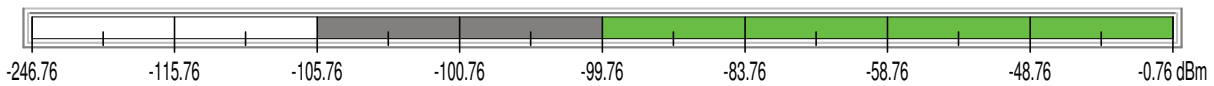








- County Borders
- State Borders
- City Borders
- Highways
- Streets
- Lat/Lon Grid

Summit Road Talk Out to Portable Medium Building FD

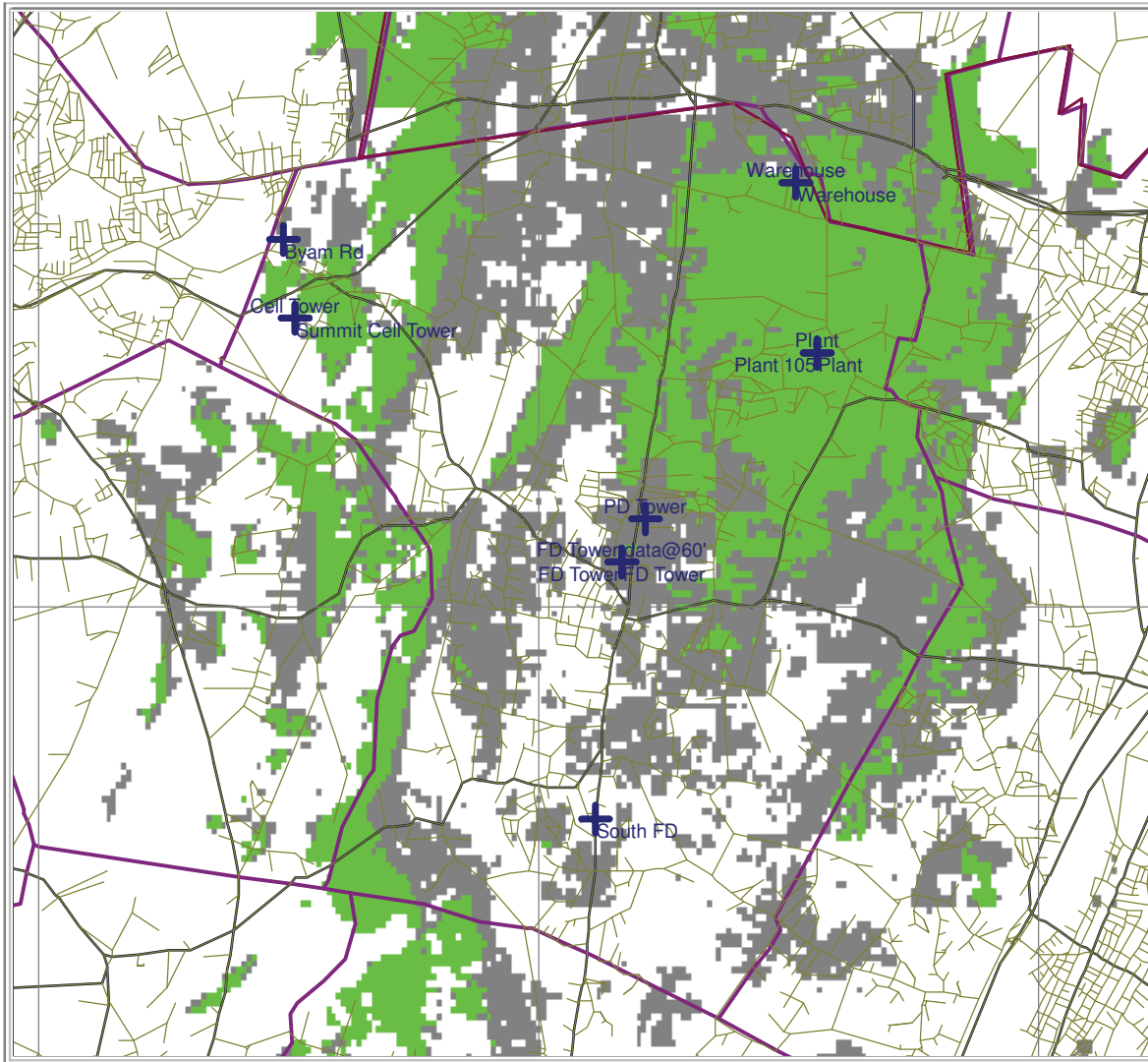


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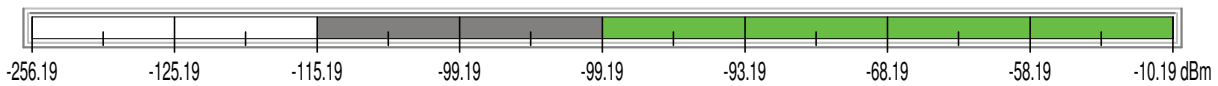


- | | | | |
|--|---|--|--|
|  County Borders |  State Borders |  City Borders |  Highways |
|  Streets |  Lat/Lon Grid | | |

Treatment Plant Talk Out to Portable Medium Building (105') PD

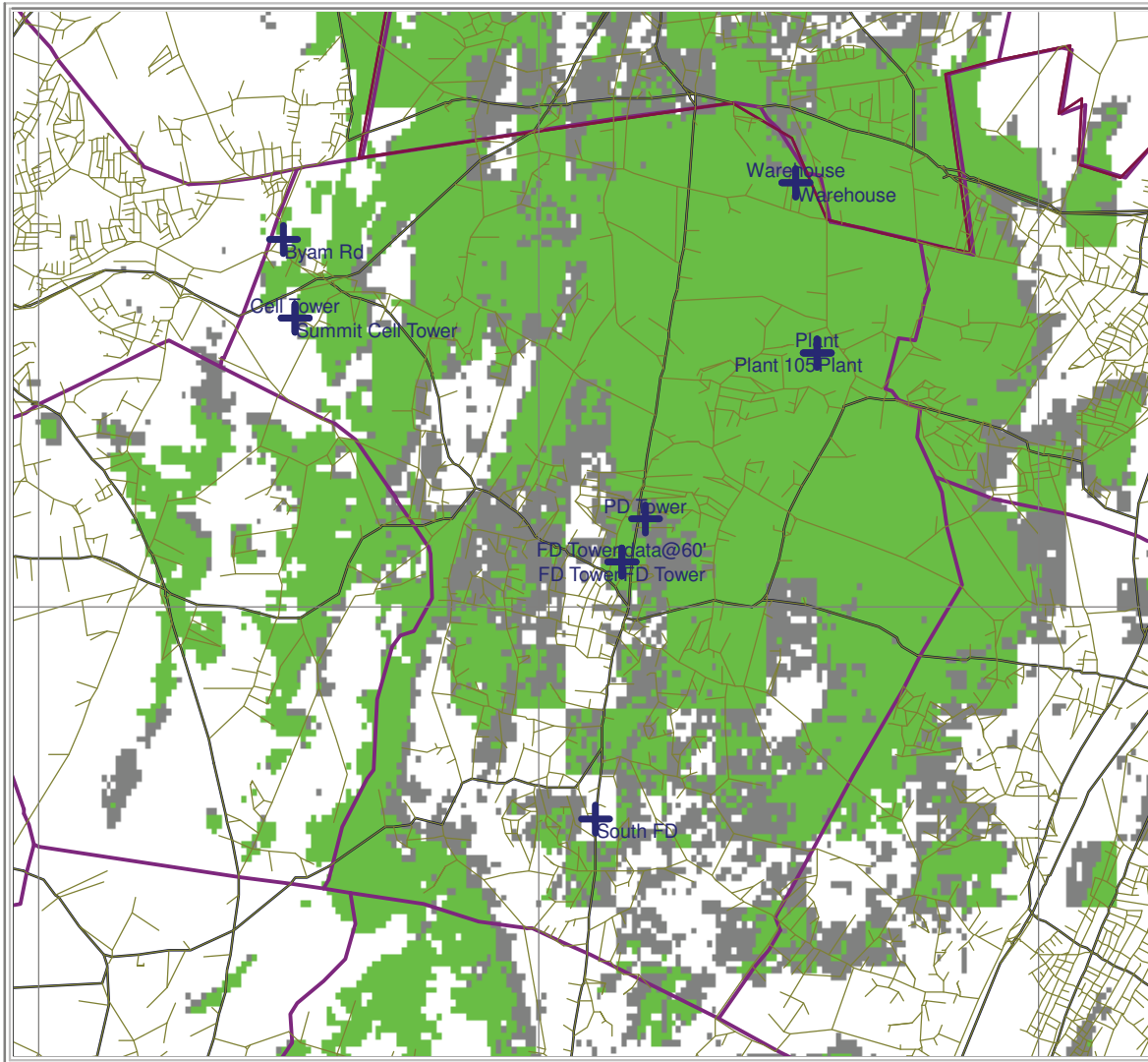


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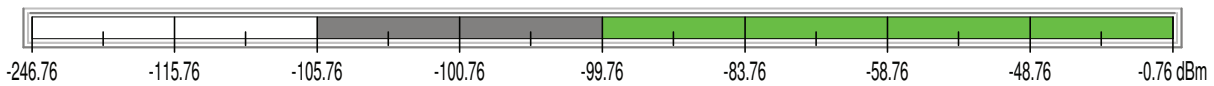


- | | | | |
|----------------|---------------|--------------|----------|
| County Borders | State Borders | City Borders | Highways |
| Streets | Lat/Lon Grid | | |

Treatment Plant Talk Out to Portable Medium Building (105') FD

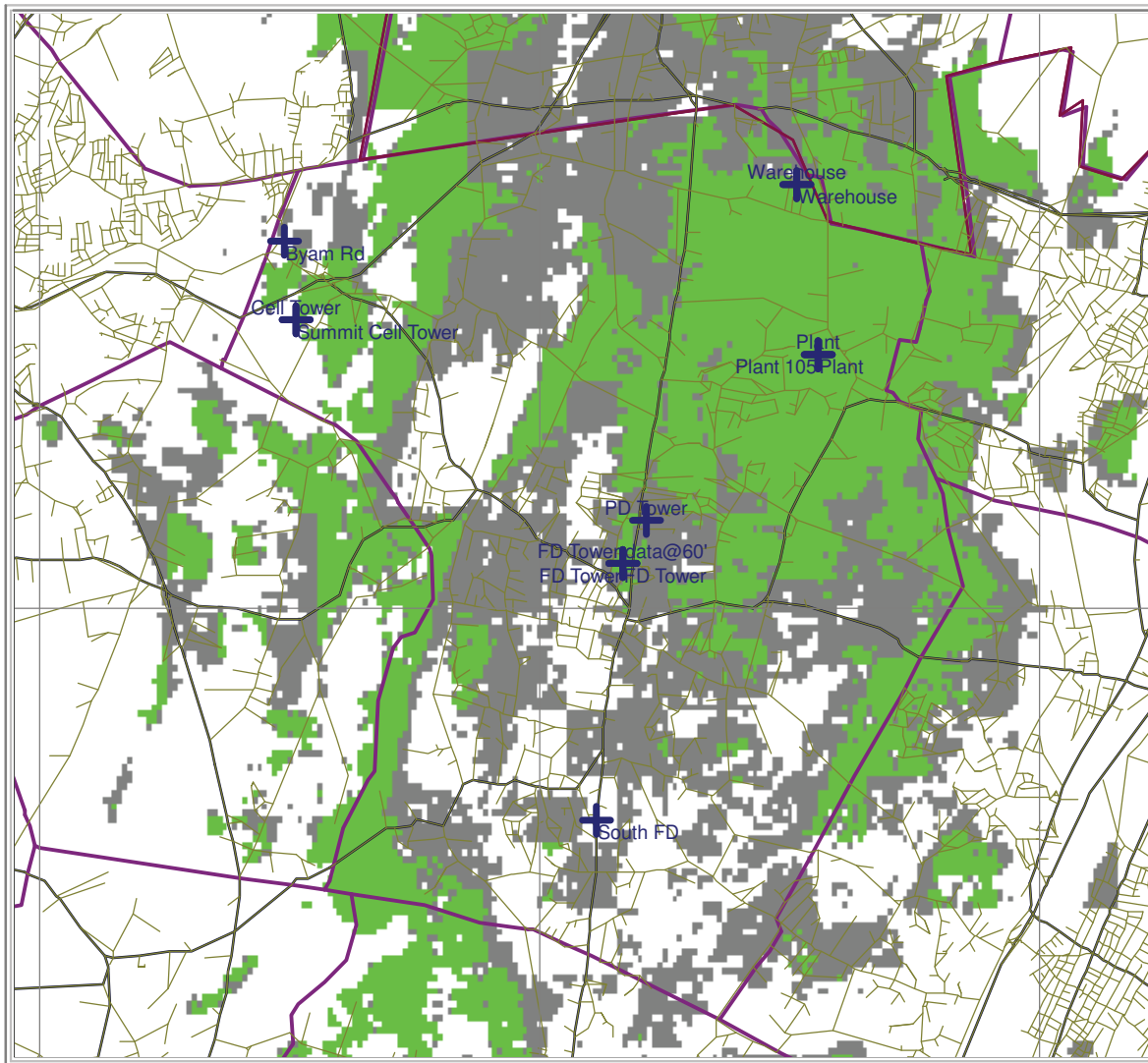


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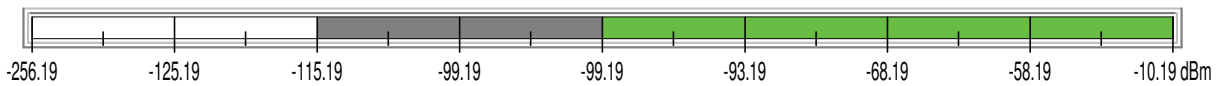


- County Borders
- State Borders
- City Borders
- Highways
- Streets
- Lat/Lon Grid

Treatment Plant Talk Out to Portable Medium Building (170') PD

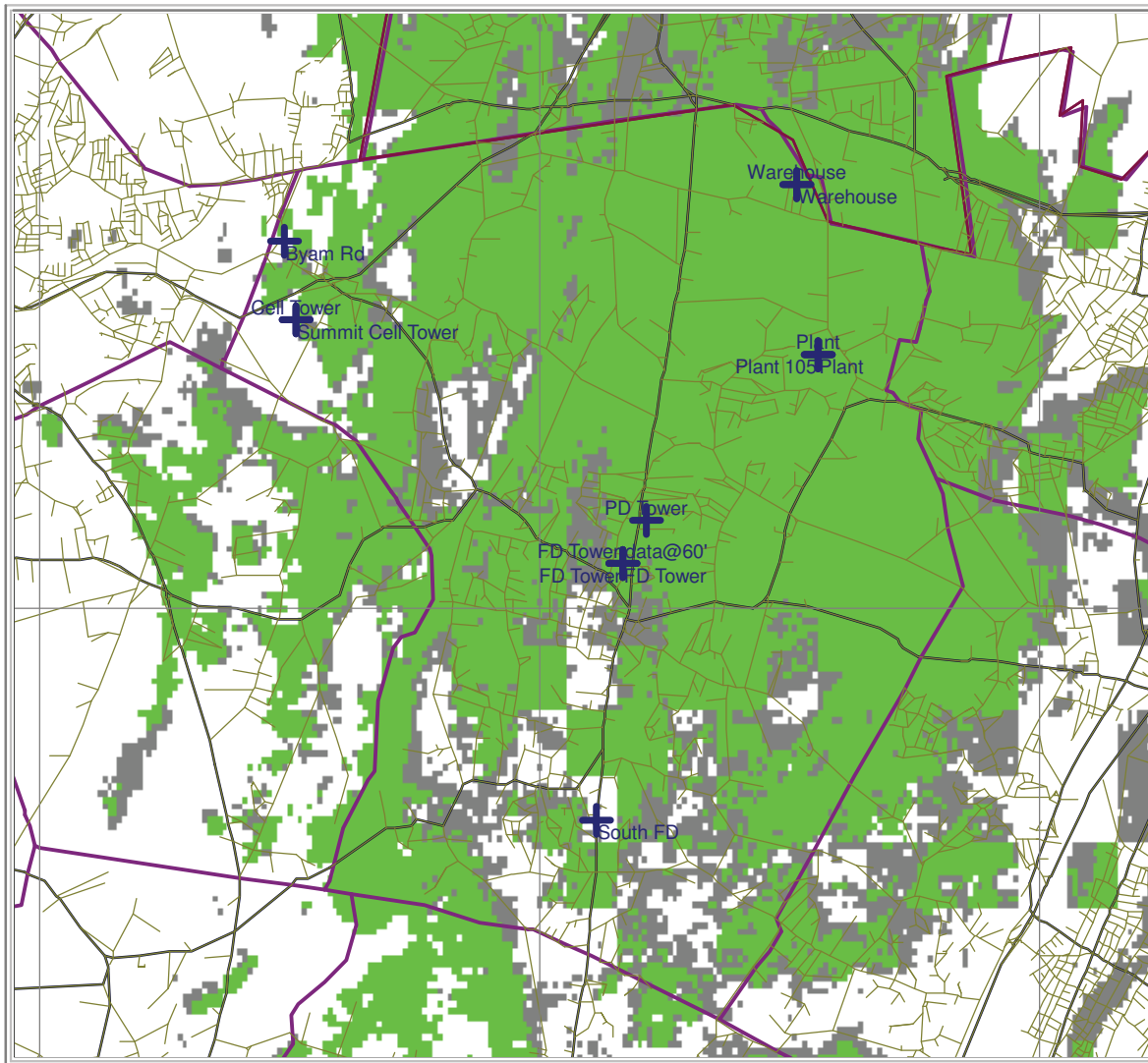


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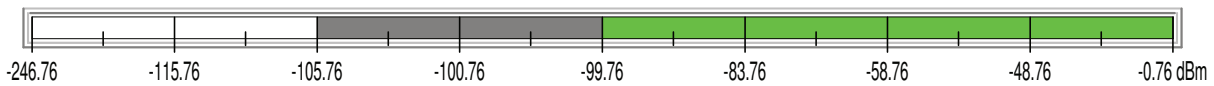


- | | | | |
|----------------|---------------|--------------|----------|
| County Borders | State Borders | City Borders | Highways |
| Streets | Lat/Lon Grid | | |

Treatment Plant Talk Out to Portable Medium Building (170') FD



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- County Borders
- State Borders
- City Borders
- Highways
- Streets
- Lat/Lon Grid

ATTACHMENT 3

Site Search Summary

In general, the wireless industry develops “site search areas” to initiate a site selection process in areas where new wireless infrastructure is required to provide reliable wireless services to the public. A site search area is a general geographic location where the installation of a new wireless facility would address identified coverage and/or capacity constraints within wireless networks. Site search areas are also developed with an overall understanding of local terrain, tree canopies and other local morphologies and development patterns. Further consideration is given by wireless network operators on how any new wireless infrastructure will integrate into a wireless network based on the unique aspects of cellular design that include consumer mobility and the reuse of frequencies licensed by the FCC throughout the network’s architecture.

In any site search area, tower companies and wireless carriers seek to avoid the unnecessary proliferation of towers in accordance with Connecticut Policy, while at the same time ensuring the quality of service provided by any proposed site to users of wireless networks. Once a site search area is identified, real estate professionals will review the area with particular attention to any tall structures above the tree line which may exist in the site search area (e.g. water tanks, above ground transmission lines, church steeples). In the absence of any viable existing structures, parcels located within the site search area will be evaluated for the potential to construct and operate a new tower facility. In order to be viable, a tower site candidate must be capable of providing adequate coverage in wireless networks. In addition, all viable candidates must have a willing landowner with whom commercially reasonable lease terms may be negotiated.

As part of a site search process, the wireless industry will typically review patterns of local development and local zoning to identify any community preferences articulated by regulation. Often, the wireless industry will also consult informally with municipal officials prior entering into a lease with a given property in the site search area in order to identify any other general