STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:
APPLICATION BY BARRETT OUTDOOR COMMUNICATIONS FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION MAINTENANCE AND OPERATION OF A WIRELESS TELECOMMUNICATIONS FACILITY AT 200 EAST MAIN STREET, REAR, STRATFORD, CONNECTICUT

DOCKET NO. 511

September 23, 2022

RESPONSES OF DISH WIRELESS, LLC ("DISH") TO CONNECTICUT SITING COUNCIL PRE-HEARING INTERROGATORIES

General

Q1. Provide information on DISH's proposed antennas and ground equipment, including the proposed height at which antennas would be mounted.

A1. DISH's proposed facility includes the installation of 9 antennas on an antenna sector frame mount along with related equipment (including 18 remote radio units) at the centerline height of 91' above grade level (AGL) on the proposed monopole. DISH's ground equipment will include two unmanned equipment cabinets within the 10'x15' lease area that DISH will maintain upon the elevated equipment platform.

Q2. What is the estimated cost of DISH's equipment, including installation?

A2. DISH's cost for this co-location is estimated to be $120,000, inclusive of labor ($50,000) and equipment ($70,000).

Q3. How would the cost of DISH's installation/co-location at the proposed site be recovered?

A3. Similar to other market participants that provide facilities-based wireless telecommunications services, DISH anticipates recovering its installation/co-location costs through its fees charged to customers to access DISH's wireless network.

Site Search

Q4. When did DISH commence a site search for the proposed service area? Identify the approximate center and radius of the site search area.

A4. DISH performed its site search for the proposed service area on October 22, 2021. The radius of the site search area was 0.5 miles with the center of the search ring identified as Latitude 41.2041, Longitude -73.1133.

Q5. What other alternatives did DISH examine besides the proposed site? Identify the alternative locations and the reasons for their rejection.

A5. Given that this location meets DISH's coverage objectives, DISH did not examine any other alternative sites aside from the existing billboard facility owned by Barrett Outdoor Communications, Inc. which is proposed to be replaced by the tower facility that is the subject of this application.

Coverage/ Capacity

Q6. What are the signal strengths for in-vehicle coverage and in-building coverage for which DISH designs its system?

A6.

	Mid Band	**Low Band**
In Building Coverage	-20 to -105.3 dBm	-20 to -96.12 dBm
In Vehicle Coverage	-105.30 to -110.30 dBm	-96.12 to -101.12 dBm

Q7. How will the proposed site improve upon DISH's existing wireless service in the area? Include data on roadways (in miles) and the size of the coverage area footprint.

A7. The proposed facility will improve upon DISH's wireless service by enhancing highway coverage continuity on I-95. This site will provide coverage of approximately 3.32 miles and 3.36 miles in Mid band & Low band, respectively, on I-95. The Mid Band & Low Band coverage areas are approximately 12.06 square miles and 12.27 square miles, respectively. The proposed facility will also assist DISH's efforts in complying with its federal mandate to provide coverage to at least 70% of the U.S. population no later than June 14, 2023.[1]

Q8. What wireless frequencies does DISH intend to deploy at the site? Provide a propagation model that shows existing DISH service in the area and a propagation model that shows existing and proposed DISH service (include frequency and signal strength data).

A8. DISH intends to deploy its 2180-2200 MHz, 1995-2020 MHz, 632-652 MHz frequencies. Please see RF Propagation Plots included as ***Attachment 1****.*

Q9. Would the site provide capacity relief at adjacent DISH facilities? If yes, identify the facilities and the frequencies and sectors at or near exhaustion that would benefit from capacity relief.

A9. DISH's proposed facility is not designed with the goal of providing capacity relief at adjacent DISH facilities. DISH's objective is to meet its federal obligation to deploy its wireless service to at least 70% of the U.S. population no later than June 14, 2023.

Q10. What is the lowest height at which DISH's antennas could achieve its wireless service objectives from the proposed facility?

A10. The lowest height at which DISH's antennas could achieve its wireless service objectives is 91' AGL.

[1] *United States et al. v. Deutsche Telekom AG, T-Mobile US, Inc., SoftBank Group Corp., Sprint Corp., and DISH Network Corp.*, Stipulation and Order, No. 1:19-cv-02232 (D.D.C.) (filed July 26, 2019) ("*DOJ Stipulation and Order*").

Backup power

Q11. Is an emergency backup power source (i.e. battery backup or a generator) proposed for the site? If yes, provide detail, backup power source and anticipated run time under full load conditions based on its battery or fuel tank capacity. If not, would a temporary generator be brought to the site?

A11. Yes, battery back-up equipment will be installed inside DISH's equipment cabinet and will provide a total run time of 4 hours. DISH's facility will also be equipped with a power protective cabinet which incorporates plugs to connect a mobile back-up power generator which can be deployed in the event of a longer outage.

Q12. What is the estimated run time of the proposed backup power source before it would require refueling/recharging?

A12. DISH's battery back-up will provide at least 4 hours of back-up power before recharging is required.

Q13. Would a battery backup (if applicable) be used by DISH to provide uninterrupted power? How long could the battery backup alone supply power to the facility?

A13. Yes, battery back-up equipment will be installed inside DISH's equipment cabinet and will provide a run time of at least 4 hours.

Q14. Would the backup generator be managed to comply with Regulations of Connecticut State Agencies Section 22a-174-3b?

A14. No back-up generator is proposed by DISH aside from the battery back-up which does not generate any air emissions. In the event that DISH deploys a mobile back-up generator to the site during an extended outage, it will be managed to comply with Section 22a-174-3b of the Regulations of Connecticut State Agencies.

Public Safety

Q15. Pursuant to CGS §16-50p(a)(3)(G), identify the safety standards and/or codes by which equipment, machinery or technology that would be used or operated at the proposed facility by DISH.

A15. DISH's facility will be built and maintained in accordance with the following standards:

- *2015 International Building Code with the 2018 Connecticut Building Code Supplement.*
- *2017 National Electric Code (NFPA 70).*
- *2015 International Mechanical Code.*
- *2018 Connecticut State Fire Prevention Code.*
- *2018 Connecticut State Fire Safety Code (NPF A 101).*
- *ANSI/TIA-222-G-2 "Structural Standard for Antenna Supporting Structures and Antennas".*

- *ANSI/TIA-222-H Addendum #1 "Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures".*
- *Occupational Safety and Health Administration (OSHA).*

Q16. Would DISH's equipment support text-to-911 service? Is additional equipment required for this purpose?

A16. Yes, DISH's proposed installation is capable of supporting this feature without additional equipment.

Q17. Would DISH's antennas comply with federal E911 requirements?

A17. Yes.

Q18. Would DISH's installation comply with the intent of the Warning, Alert and Response Network Act of 2006?

A18. Yes.

CERTIFICATE OF SERVICE

I hereby certify that on this day the foregoing was sent electronically and one (1) original and fifteen (15) hard copies were sent overnight mail to the Connecticut Siting Council and sent electronically to the parties on the service list as noted below.

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September 23, 2022

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cc: DISH Wireless, LLC

ATTACHMENT 1

NJJER02041B [Stratford, CT]

Coverage objective: Coverage continuity on I-95 and outdoor coverage to Stratford, CT.

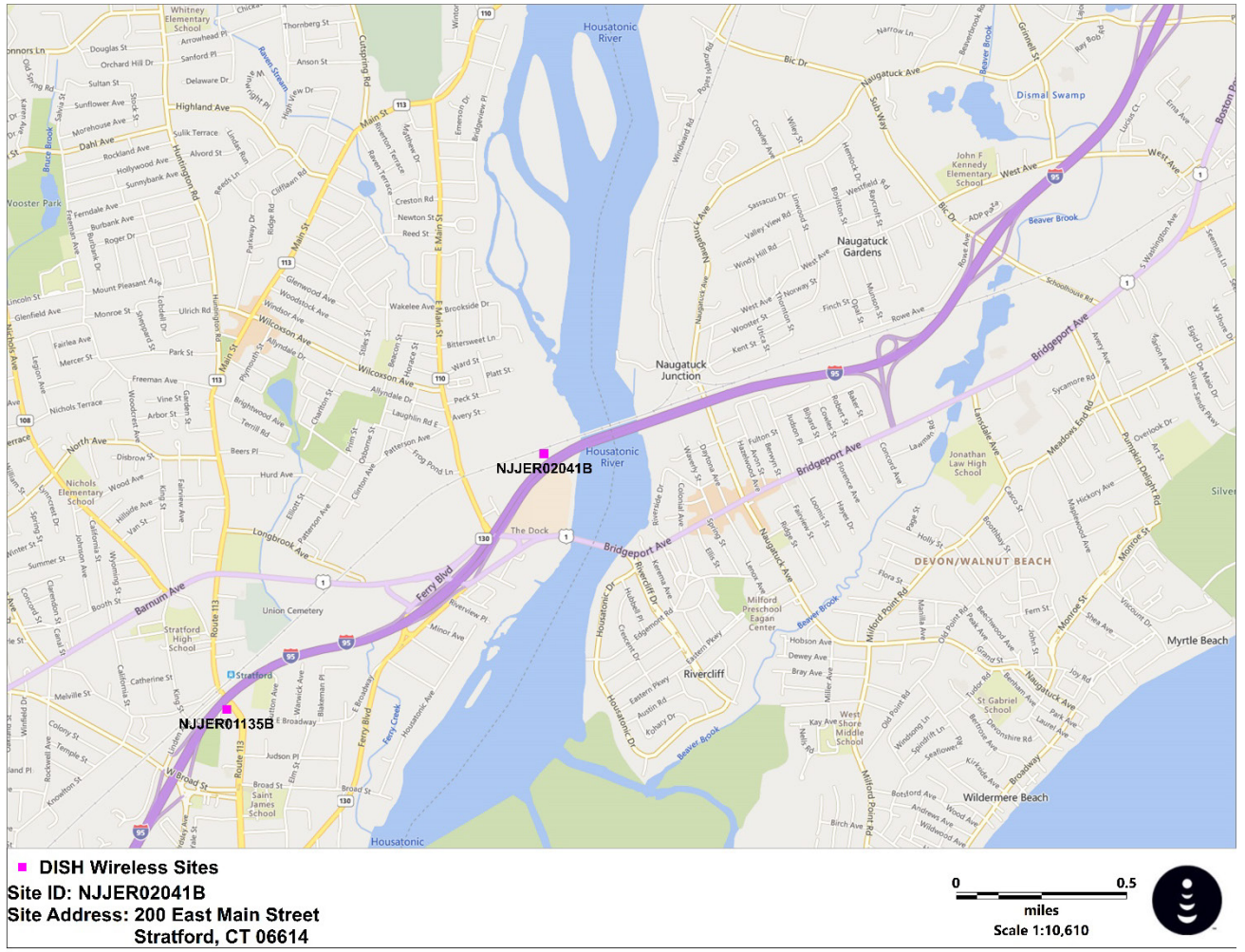
Site details:

- ❑ Build type: Co-locate on the existing Monopole
- ❑ Address: 200 East Main Street, Stratford, CT 06614
- ❑ GPS Coordinates: 41.204138, -73.113333
- ❑ Rad Center: 91 ft

FCC licenses:

- ❑ ParkerB.com Wireless L.L.C. (600 MHz)
- ❑ Manifest Wireless L.L.C. (700 MHz)
- ❑ American H Block Wireless L.L.C. (H Block)
- ❑ Gamma Acquisition L.L.C. and DBSD Corporation (AWS-4)

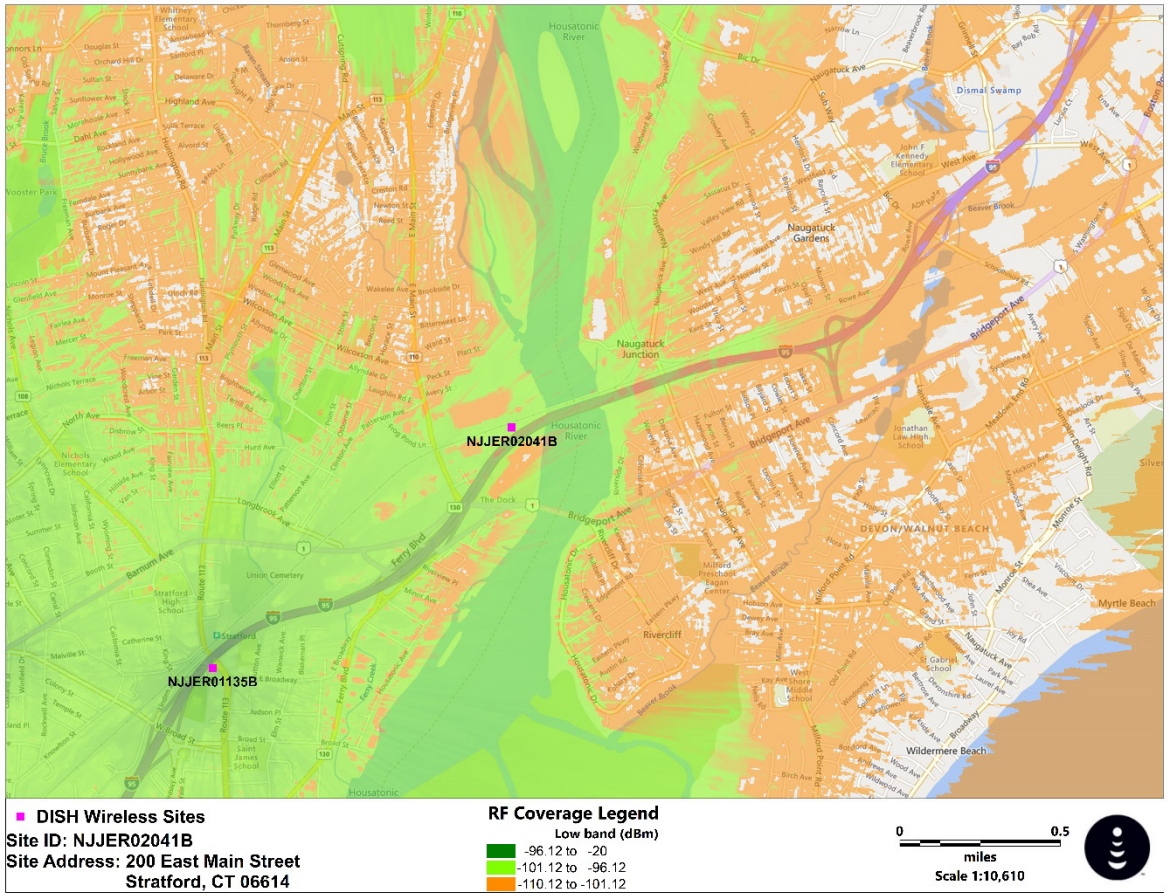
[DISH Network Corporation subsidiaries that hold the relevant FCC licenses]



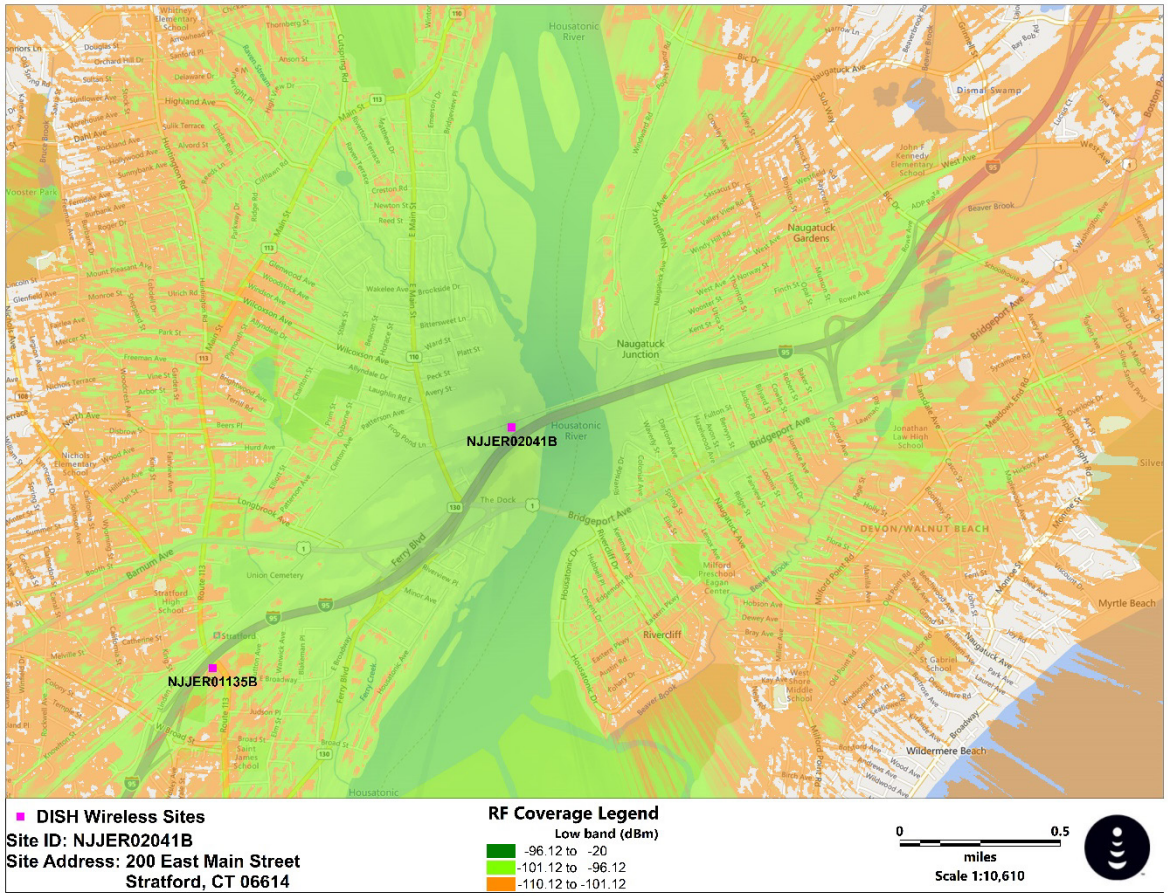
Low Band Plots

ParkerB.com Wireless L.L.C. (600 MHz)

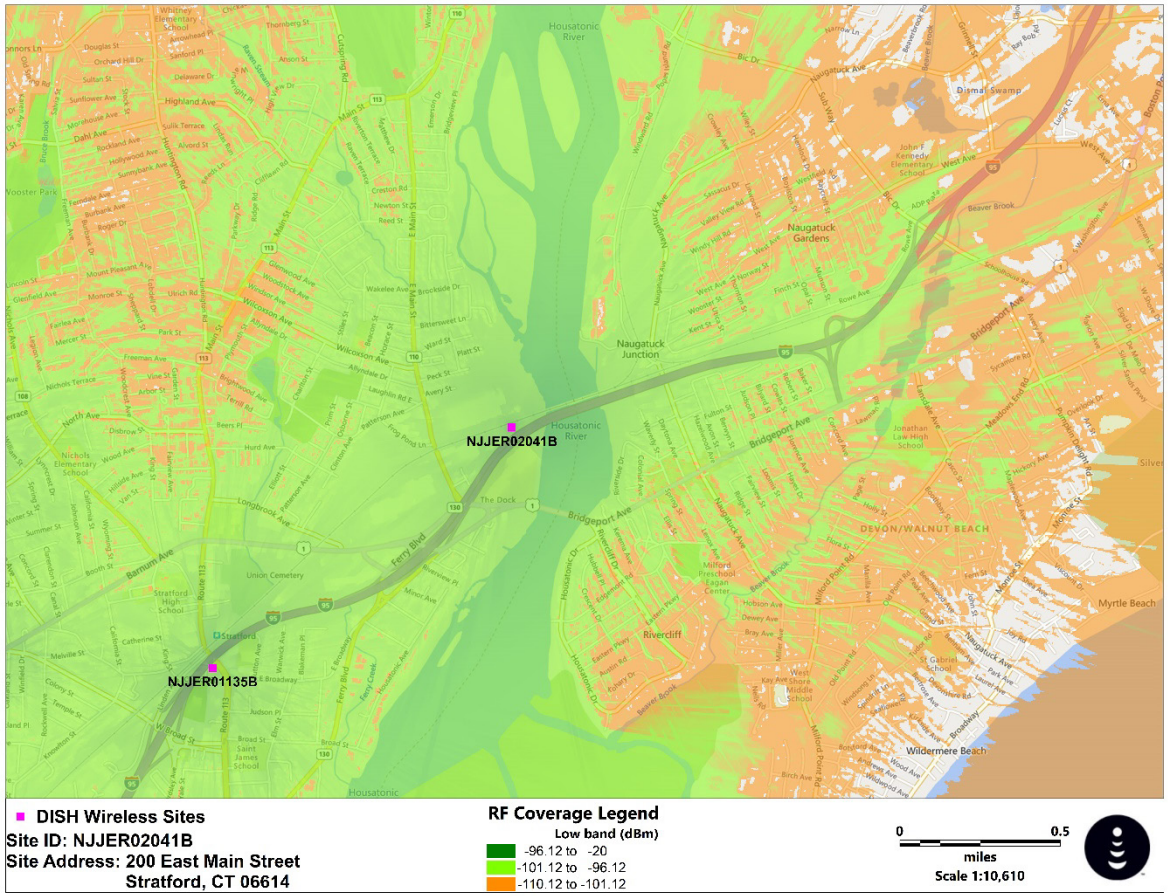
Propagation Maps: Before



Propagation Maps: Standalone



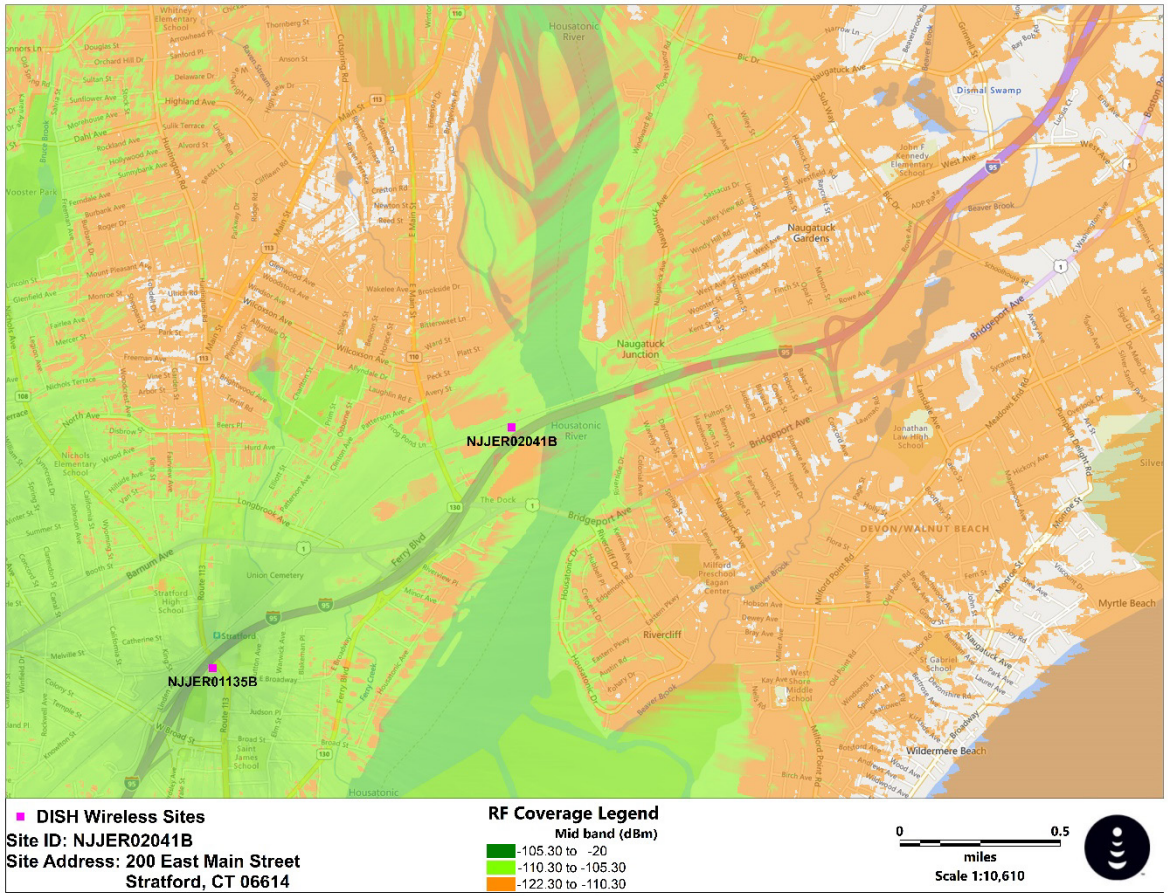
Propagation Maps: After



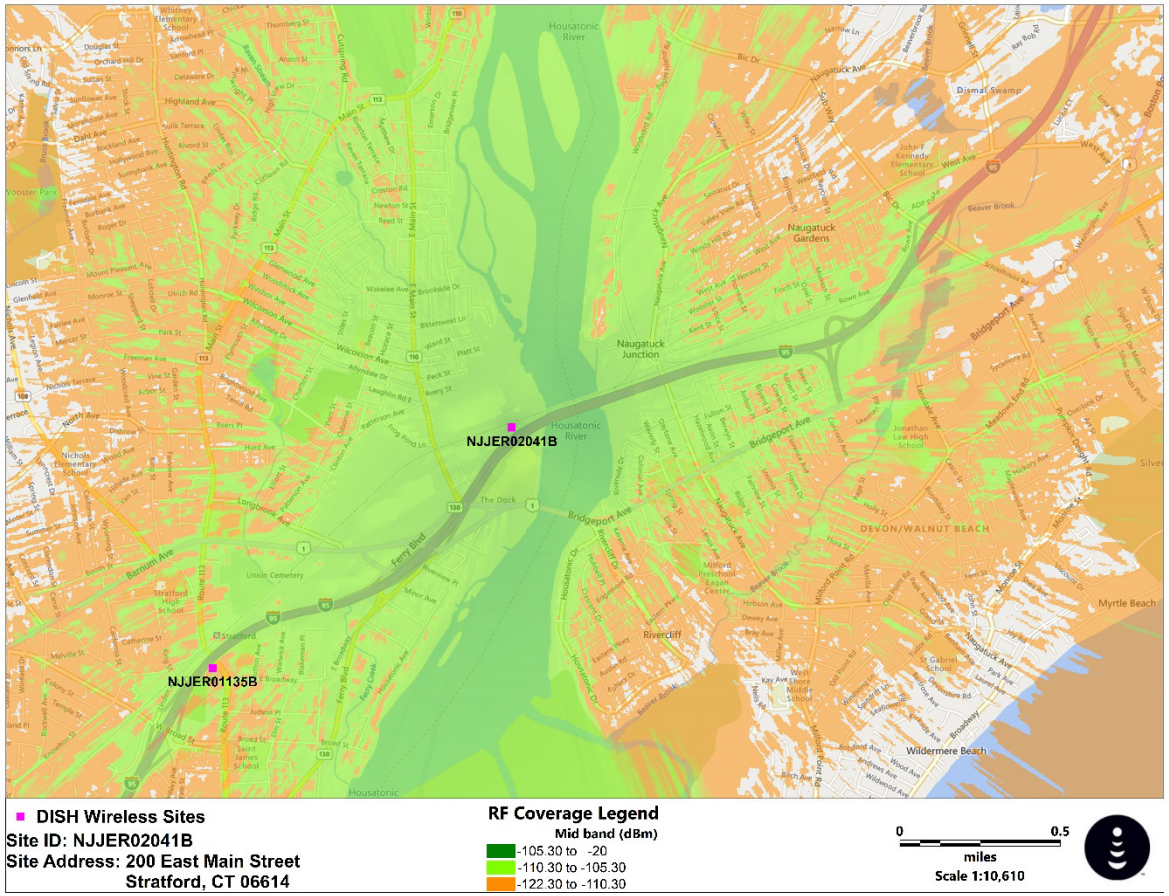
Mid Band Plots

American H Block Wireless L.L.C. (H Block)
Gamma Acquisition L.L.C. and DBSD Corporation (AWS-4)

Propagation Maps: Before



Propagation Maps: Standalone



Propagation Maps: After