

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:

APPLICATION OF HOMELAND TOWERS, LLC AND NEW CINGULAR WIRELESS PCS, LLC d/b/a AT&T FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE, AND OPERATION OF A TELECOMMUNICATIONS FACILITY AT ONE OF TWO SITES IN THE TOWN OF KENT, CONNECTICUT

DOCKET NO. 488

May 15, 2020

APPLICANTS' RESPONSES TO INTERVENOR PLANNED DEVELOPMENT ALLIANCE OF NORTHWEST CONNECTICUT, INC. INTERROGATORIES

- Q1. Please disclose the information contained in AT&T's Site Acquisition Request Form (SARF) for Kent, Connecticut **and** any SARF designed for the Bald Hill/Richards Road area of Kent, Connecticut including the date of issuance.
- A1. *Included in Attachment 1 is a copy of AT&T's SARF for this search ring. As set forth in detail in the Application, this search ring and Proposed Facility is part of AT&T's commitment to provide reliable coverage in the state and to provide FirstNet first responder services.*
- Q2. If the answer to the previous question is that AT&T does not have a SARF for this locale please provide a description of the coverage objective, an estimated antenna height, coordinates of a search area centroid, and an image of a "search ring" in the form of a circle or polygon on a map or aerial photo.
- A2. *See Response A1.*
- Q3. Please state the transmitter characteristics for the nearest existing AT&T sites which would link to the Bald Hill and Richards Rd proposed sites including, but not limited to the site coordinates, antenna heights, equipment models, gains, EIRPs, azimuths, tilts, etc. such that accurate modeling of coverage characteristics may be verified independently.
- A3. *See Application Attachment 1 and the table enclosed in Attachment 2.*
- Q4. Please provide a list of existing AT&T DAS and C-RAN deployments in Connecticut.
- A4. *AT&T does not have any small cells in the area where coverage is needed. The Connecticut Siting Council maintains a database of all wireless sites within the state, including small cell sites.*

- Q5. Have AT&T's engineers modeled existing coverage and proposed coverage from the Bald Hill and Richards Rd sites? If so, please provide the AT&T coverage maps.
- A5. *See Application Attachment 1.*
- Q6. Has AT&T modeled coverage from other prospective sites in Kent? If so, please provide coverage maps for those sites.
- A6. *Coverage plots for Alternate Site AA and Site J in the Site Search Summary were provided in Attachments 11 and 12 of the Applicants' Responses to Set One of the Siting Council's Interrogatories, submitted on April 17, 2020.*
- Q7. Did Homeland Towers, LLC consider small cell solutions for providing coverage in the area around Bald Hill and Richards Road in Kent? If not, why not?
- A7. *As detailed on pages 14-15 of the Applicants' Application Narrative, small cells and other types of transmitting technologies are not viable as an alternative to the need for a replacement macro tower site in this area of Kent to continue providing wireless services to the public. Small cells are best suited for specifically defined areas where capacity is necessary, such as commercial buildings, shopping malls, and tunnels. Closing the coverage gaps and providing reliable wireless services in central Kent requires a tower site that can provide reliable service over a footprint that spaces several square miles. The Applicants submit that there are no equally effective, feasible technological alternatives to a new tower facility for providing reliable personal wireless services in this area of Connecticut.*
- Q8. Did New Cingular Wireless/AT&T consider small cell solutions for providing coverage in the area around Bald Hill and Richards Road in Kent? If not, why not?
- A8. *See Response A7.*
- Q9. Please state how the number of residences within the coverage area was calculated as stated in Table 1 of the Radio Frequency Analysis reports in the Application. For example, since the coverage area is not co-extensive with the Census Block, how were the number of homes within the projected coverage determined?
- A9. *The statistic calculated in the RF Report in Application Attachment 1 is population, not residences. To determine population covered, the U.S. Census Block data is overlaid with the coverage map. Any block completely contained within the coverage is included in the count. Any block completely outside the coverage is excluded. For any partially covered block, the block is split into covered and non-covered portions and the covered population of the block is determined based on the covered area of the block as a percentage of the total area of the block.*
- Q10. Please provide an antenna-height coverage comparison for each proposed tower site with the proposed antenna height plus antenna heights of 80 feet and 110 feet above ground. Provide this in the form of a single map for each site, if practicable, showing the coverage differentials in multicolor overlay format. The applicant should use the same settings used to produce the coverage maps in Attachment 1 of its application.

- A10. *Provided in Attachment 3 are antenna height coverage comparisons for each of the proposed tower sites depicting coverage at antenna heights of 80 and 110 feet.*
- Q11. In the Site Search Summary (p.40-46) please submit for each site which was “rejected by AT&T’s engineers” the data upon which the site was rejected.
- A11. *Coverage plots for Alternate Site AA and Site J of the Site Search Summary were provided in Attachments 11 and 12 of the Applicants’ Responses to Set One of the Siting Council’s interrogatories, submitted on April 17, 2020.*
- Q12. Has the Applicant performed any analysis of locating multiple towers just above the tree line to provide coverage for the same area instead of one large monopole which looms over the surrounding scenic and recreational area?
- A12. *No. Siting multiple facilities is inconsistent with the General Assembly’s and the Siting Council’s goal of preventing the unnecessary proliferation of towers in the State of Connecticut as set forth in Connecticut General Statutes (“C.G.S.”) Section 16-50p(b)(2).*
- Q13. Has the applicant performed a minimum height analysis to determine the minimum antenna centerline that it requires to meet its alleged coverage needs?
- A13. *See Response A10.*
- Q14. What studies did you undertake to eliminate alternate technologies from consideration as a solution to the coverage objectives?
- A14. *See Response A8 and Application Section III.C.*
- Q15. Were drive tests (“scan tests”) that would verify the results of the calculated plots conducted? If so, please provide the data sets which were generated by the tests and note whether the data needs to be corrected for variables including, but not limited to, antenna position, gain and line loss.
- A15. *Drive test maps are enclosed in Attachment 4.*
- Q16. Has the applicant performed continuous wave (“CW”) tests from the proposed site or any other site either identified or considered?
- A16. *No.*
- Q17. How many residential parcels (as opposed to acres) will have year-round views of the proposed towers? Seasonal views?
- A17. *Site A (Bald Hill) has approximately 31 residential parcels with potential year-round views and 25 residential parcels with potential seasonal views.*
- Site B (Richards Road) has approximately 63 residential parcels with potential year-round views and 16 residential parcels with potential seasonal views.*

Q18. Your visual impact analysis indicates that a portion of the visibility of the towers will occur over open water. Did you simulate any of the views from open water or in any way determine the impact to the scenic views of visitors and residents using the open water for recreation?

A18. *APT inspected a portion of the north shoreline of South Spectacle Pond at the public boat launch, where no views of either site could be obtained. Remaining areas along South Spectacle Pond are inaccessible to the public. APT also inspected a portion of the western shoreline of North Spectacle Pond at the KenMont-KenWood boat launch; similarly, no views of either site are attainable from this location. Remaining areas along North Spectacle Pond are also inaccessible to the public. As a result, no photo-simulations were prepared.*

APT did perform additional viewshed analyses to estimate where potential views could occur over open water and the extent to which portions of the proposed towers could potentially be visible above the tree-line. Based on these analyses, portions of either tower may be visible anywhere from a few feet to $\pm 75'$ above the tree-line from select areas on the two ponds, depending upon specific viewer locations.

Q19. Is either proposed site capable of establishing an in-vehicle "handoff" with existing AT&T sites? If so, provide coverage maps that demonstrate the necessary overlap with existing coverage.

A19. *See the RF Report included in Application Attachment 1.*

CERTIFICATE OF SERVICE

I hereby certify that on this day the foregoing was sent electronically and one hard copy via mail to the Connecticut Siting Council in accordance with Connecticut Siting Council with electronic copies sent to:

Keith R. Ainsworth, Esq.
Law Offices of Keith R. Ainsworth, Esq.
51 Elm Street, Suite 201
New Haven, CT 06510-2049
keithrainsworth@live.com

Anthony F. DiPentima, Esq.
Michael D. Rybak, Jr., Esq.
Guion, Stevens & Rybak, LLP
93 West Street
P.O. Box 338
Litchfield, CT 06
afd@litchlaw.com
mdrjr@litchlaw.com 759

May 15, 2020



Lucia Chiochio
Cuddy & Feder LLP
445 Hamilton Ave, 14th Floor
White Plains, NY 10601
(914)-761-1300
Attorneys for the Applicants

cc: Manuel Vicente
Raymond Vergati
Brian Leyden
Harry Carey

ATTACHMENT 1

SARF Details

SARF ID	19696	Assigned To	TURFING VENDOR	Issued Date	01/22/2018
SARF Name	SARF-S2693	Status	TV Complete	Last Modified By	Last Modified Date 03/27/2018

Name (Atoll Sites) S2693

FA Code 10141335 **FA Type** CELL

Search Ring ID S2693 **Search Ring Name**

iPlan Job # NER-RCTB-15-01637 **Solution Type** **Allocation**

Pace # MRCTB028448 **MOD Code** **Oracle Project Number** 2051A0FKFK

Market CONNECTICUT **Market Cluster** NEW ENGLAND **Region** NORTHEAST

Turfing Vendor Company SAI-Comm **Turf Vendor ATTUID** **RF Design Engineer ATTUID** RA9161

Design Engineer ra9161 **Design Manager** **Performance Manager**

Search Ring Information

County Litchfield **City** **Sub-Market**

Polygon Cluster **Site Build Priority** **Select Objective**

Spectrum FNET **Est # of RRHs** **Job Description** MACRO

Latitude (N) **Longitude (W)** **Location Short Description**

Latitude Decimal (N) 41.709601 **Longitude Decimal (W)** -73.430794 **NAD** WGS 84

Required Height Min AGL 170.00 **Required Height Max AGL** **Search Ring Radius** 0.25

Overall Total Height Min AGL **Overall Total Height Max AGL** **Ground Elevation AMSL**

Number of Antennas 0 **Total Sectors** 0 **Estimated Equipment Weight (lbs)**

Azimuths **Rad Center Height (ft AGL)** 0 **Rad Center Tolerance (ft)** 0

Remarks

ATTACHMENT 2

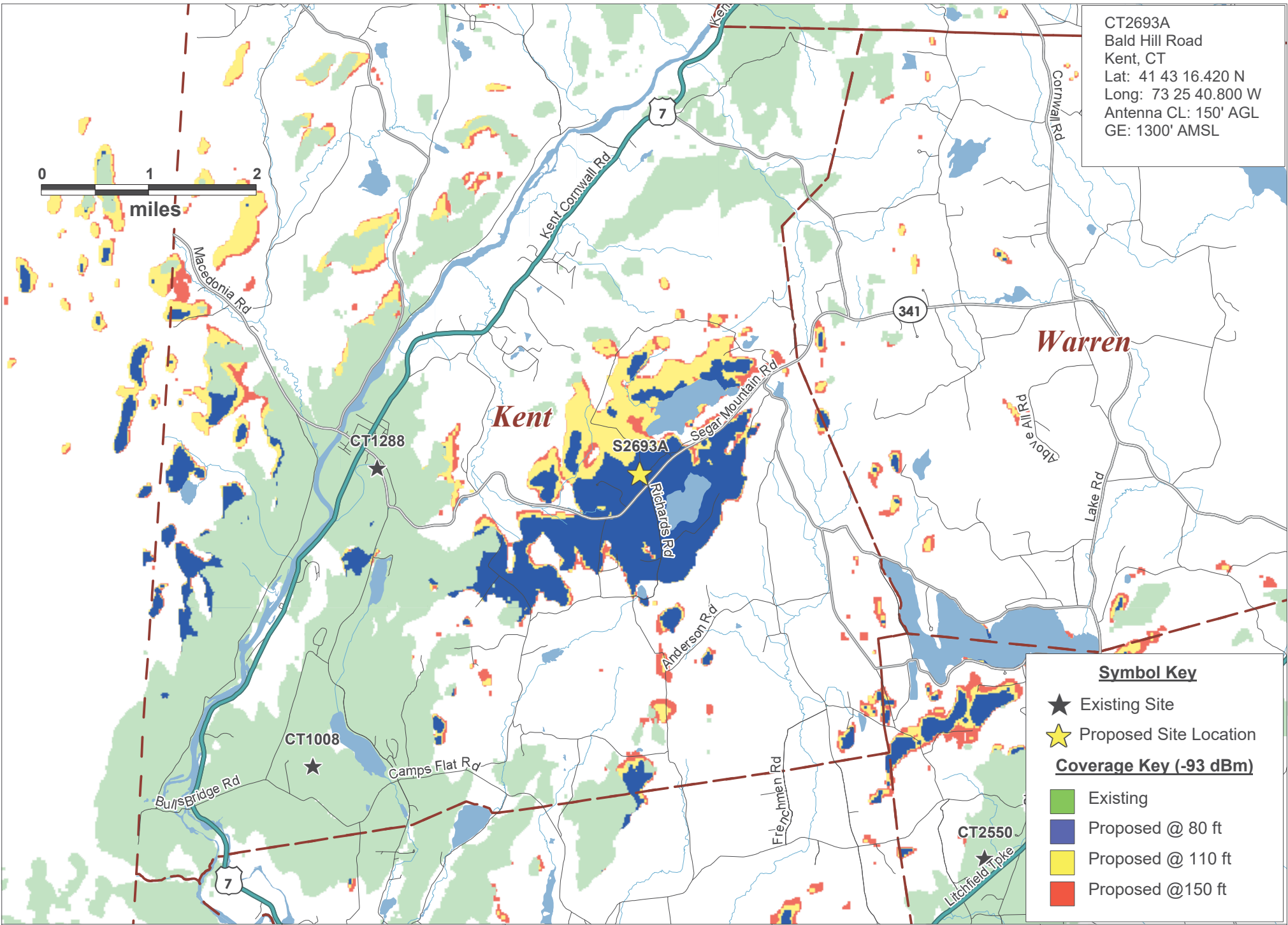
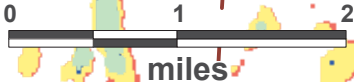
Applicants' Responses to PDA Interrogatories

Attachment 2

Site Name	Address	City/State	Location		Antenna Height (ft AGL)	Ground Elevation (feet)	Antenna ID	Antenna	RSRP ERP (dBm)	Azimuth (TN)	Mechanical Tilt
			Latitude	Longitude							
CT1008	136 Bulls Bridge Road	South Kent	41.6816	-73.4866	180	781	1	AM-X-CD-16-65-00T-RET_725MHz_02DT	31.0	23	0
CT1008	136 Bulls Bridge Road	South Kent	41.6816	-73.4866	180	781	2	AM-X-CD-16-65-00T-RET_725MHz_07DT	31.0	143	0
CT1008	136 Bulls Bridge Road	South Kent	41.6816	-73.4866	180	781	3	AM-X-CD-14-65-00T-RET_725MHz_09DT	31.0	263	0
CT1157	70 Herb Road	Sharon	41.7913	-73.4257	92	1083	1	AM-X-CD-16-65-00T-RET_725MHz_02DT	31.0	30	0
CT1157	70 Herb Road	Sharon	41.7913	-73.4257	92	1083	2	AM-X-CD-16-65-00T-RET_725MHz_02DT	31.0	150	0
CT1157	70 Herb Road	Sharon	41.7913	-73.4257	92	1083	3	80010764_716MHz_06DT	31.3	270	0
CT1288	38 Maple Street	Kent	41.7219	-73.4750	140	387	1	AM-X-CD-16-65-00T-RET_725MHz_05DT	31.0	30	0
CT1288	38 Maple Street	Kent	41.7219	-73.4750	140	387	2	80010764_716MHz_06DT	31.3	150	0
CT1288	38 Maple Street	Kent	41.7219	-73.4750	140	387	3	AM-X-CD-14-65-00T-RET_725MHz_02DT	31.0	270	0
CT2550	6 Mountain Road	Washington	41.6691	-73.3653	167	705	1	AM-X-CD-17-65-00T-RET_725MHz_02DT	31.0	40	0
CT2550	6 Mountain Road	Washington	41.6691	-73.3653	167	705	2	80010764_716MHz_00DT	31.3	150	0
CT2550	6 Mountain Road	Washington	41.6691	-73.3653	167	705	3	80010764_716MHz_06DT	31.3	280	0

ATTACHMENT 3

CT2693A
 Bald Hill Road
 Kent, CT
 Lat: 41 43 16.420 N
 Long: 73 25 40.800 W
 Antenna CL: 150' AGL
 GE: 1300' AMSL



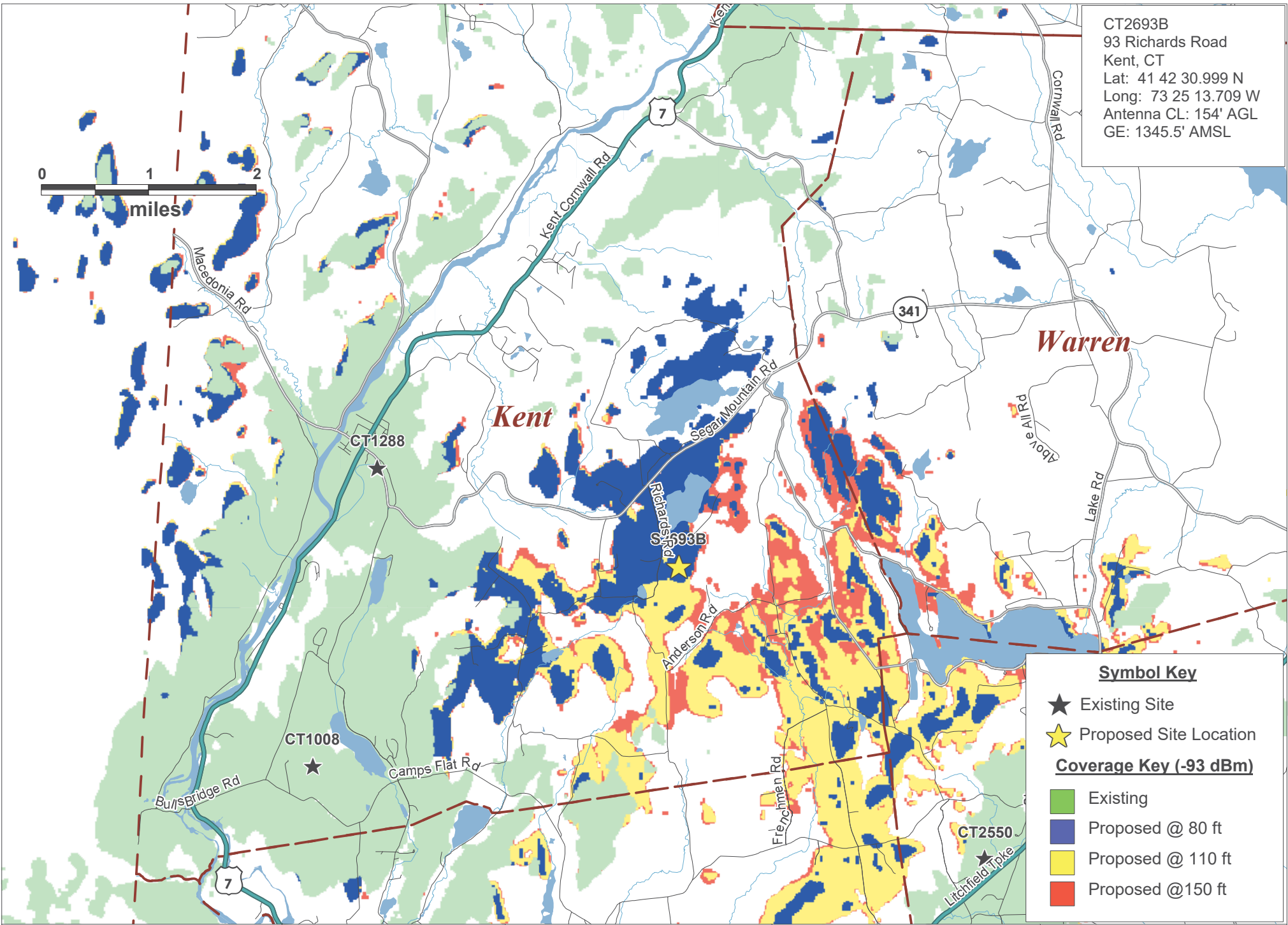
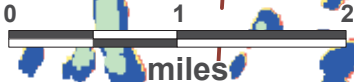
Symbol Key

- ★ Existing Site
- ★ Proposed Site Location

Coverage Key (-93 dBm)

- Existing
- Proposed @ 80 ft
- Proposed @ 110 ft
- Proposed @ 150 ft

CT2693B
 93 Richards Road
 Kent, CT
 Lat: 41 42 30.999 N
 Long: 73 25 13.709 W
 Antenna CL: 154' AGL
 GE: 1345.5' AMSL



Symbol Key

- ★ Existing Site
- ★ Proposed Site Location

Coverage Key (-93 dBm)

- Existing
- Proposed @ 80 ft
- Proposed @ 110 ft
- Proposed @ 150 ft

700 MHz LTE
 Height Analysis @ -93 dBm

Kent

93 Richards Road
 Kent, CT

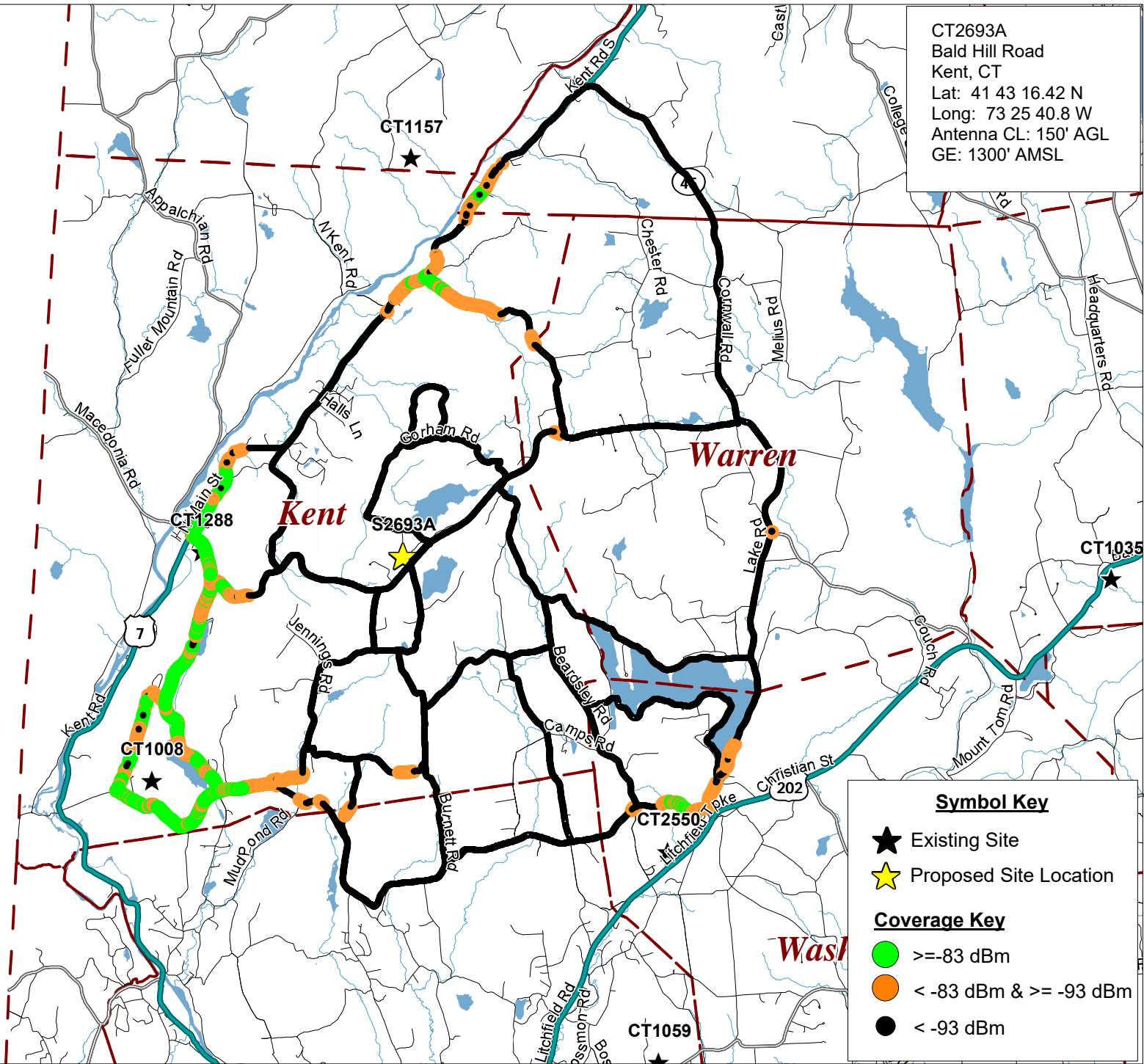
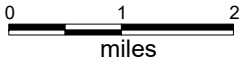


PREPARED ON
 DATE: 05/13/2020

REV
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ATTACHMENT 4

CT2693A
 Bald Hill Road
 Kent, CT
 Lat: 41 43 16.42 N
 Long: 73 25 40.8 W
 Antenna CL: 150' AGL
 GE: 1300' AMSL



Symbol Key

- ★ Existing Site
- ★ Proposed Site Location

Coverage Key

- ≥ -83 dBm
- < -83 dBm & ≥ -93 dBm
- < -93 dBm

Existing 700 MHz LTE Coverage

Kent

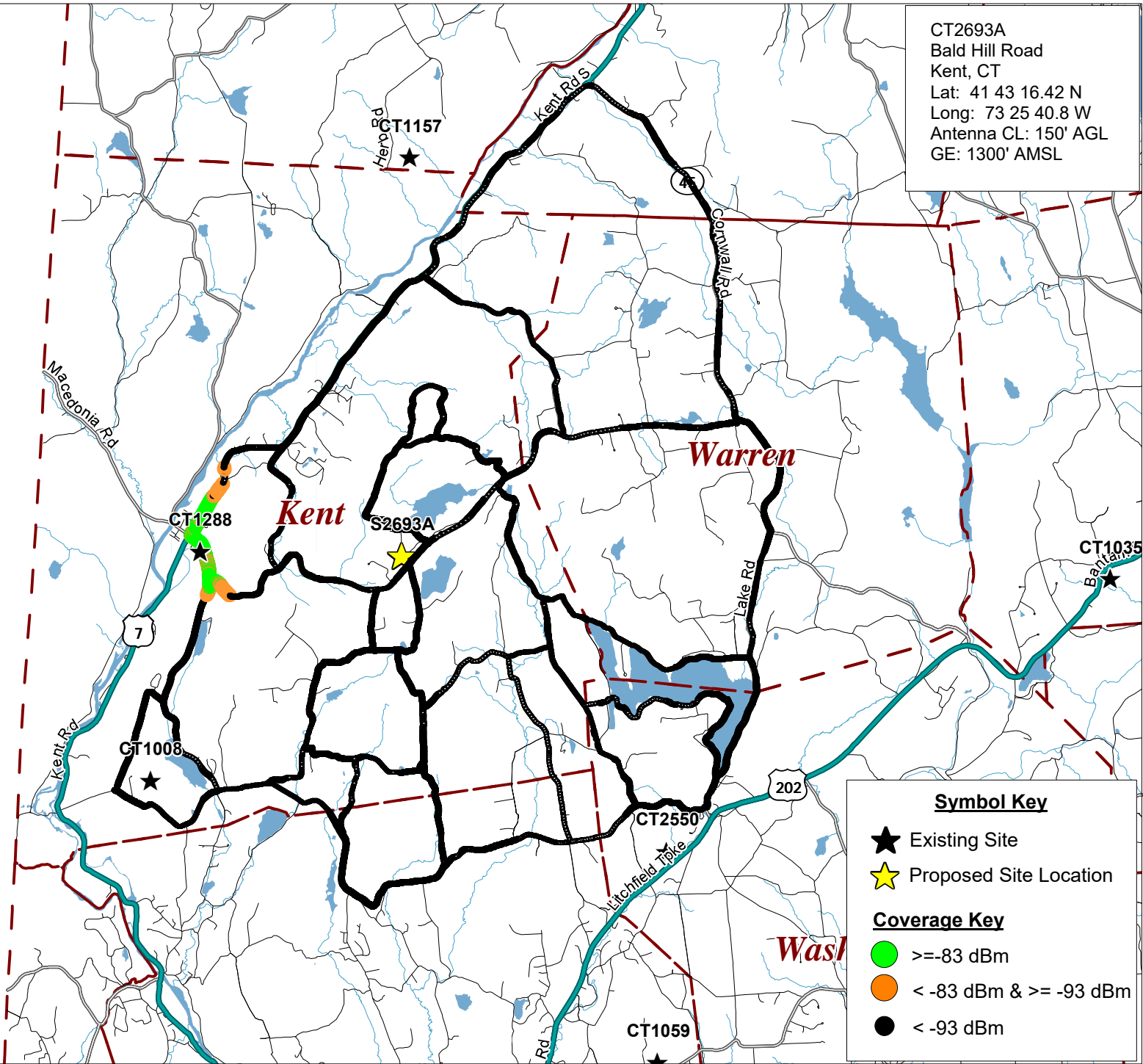
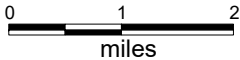
Bald Hill Road
 Kent, CT



PREPARED ON
 DATE: 02/19/2020

REV 0

CT2693A
 Bald Hill Road
 Kent, CT
 Lat: 41 43 16.42 N
 Long: 73 25 40.8 W
 Antenna CL: 150' AGL
 GE: 1300' AMSL



Symbol Key

- ★ Existing Site
- ★ Proposed Site Location

Coverage Key

- ≥ -83 dBm
- < -83 dBm & ≥ -93 dBm
- < -93 dBm

Existing 1900 MHz LTE Coverage (Ch 650)

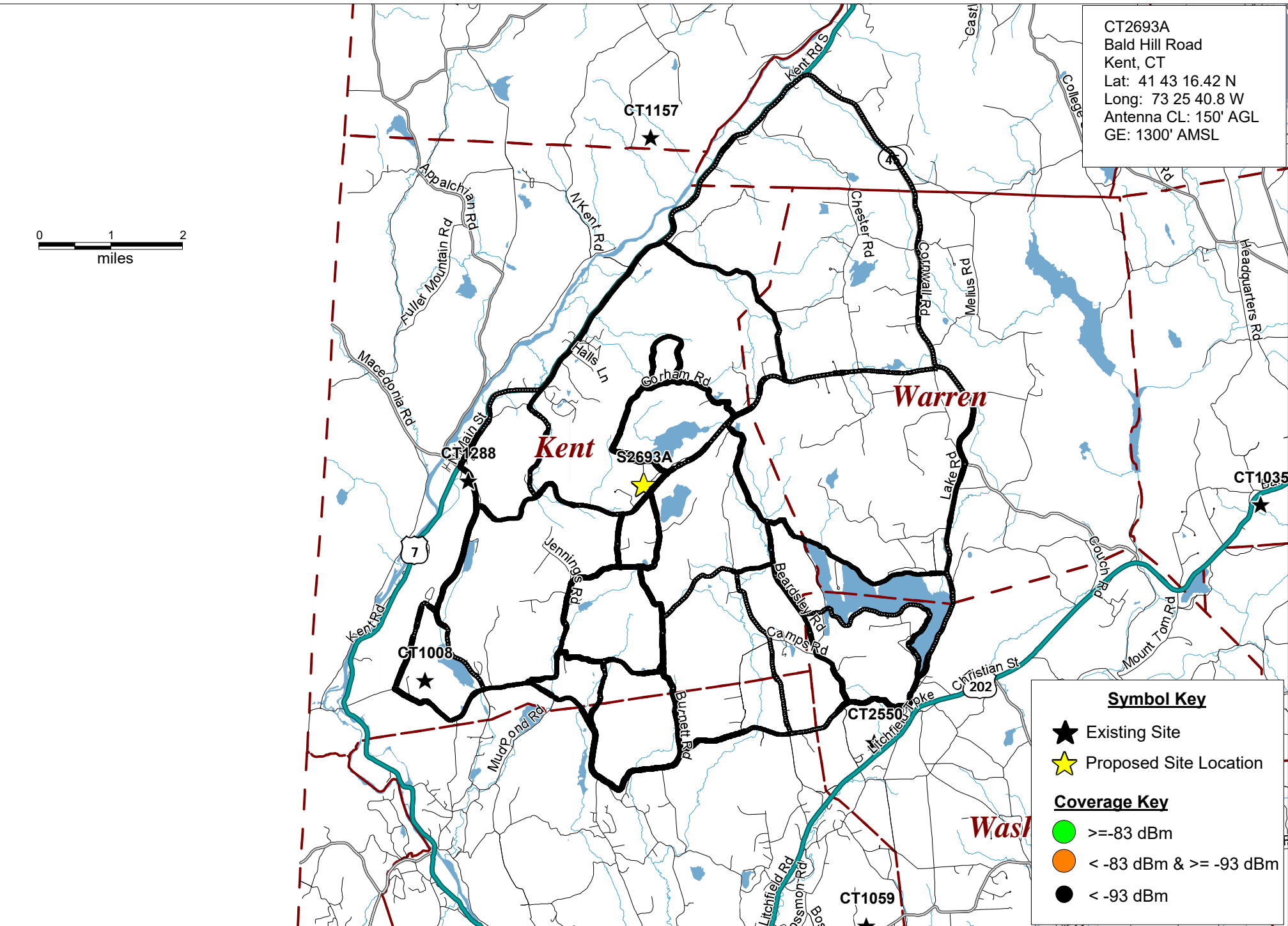
Kent

Bald Hill Road
 Kent, CT

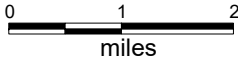


PREPARED ON
 DATE: 02/19/2020

REV 0



CT2693A
 Bald Hill Road
 Kent, CT
 Lat: 41 43 16.42 N
 Long: 73 25 40.8 W
 Antenna CL: 150' AGL
 GE: 1300' AMSL



Symbol Key

- ★ Existing Site
- ★ Proposed Site Location

Coverage Key

- ≥ -83 dBm
- < -83 dBm & ≥ -93 dBm
- < -93 dBm

Existing 1900 MHz LTE Coverage (Ch 975)

Kent

Bald Hill Road
 Kent, CT



PREPARED ON	
DATE: 02/19/2020	REV 0