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February 16, 2010

TO: Parties and Intervenors

FROM: S. Derek Phelps, Executive Director

RE: **DOCKET NO. 386** - T-Mobile Northeast LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 123 Pine Orchard Road, Branford, Connecticut.

As stated at the hearing in Branford on December 15, 2009, after the Council issues its draft findings of fact, parties and intervenors may identify errors or inconsistencies between the Council's draft findings of fact and the record; however, no new information, evidence, argument, or reply briefs will be considered by the Council.

Parties and Intervenors may file written comments with the Connecticut Siting Council on the Draft Findings of Fact issued on this docket by February 23, 2010.

SDP/RDM/laf

Enclosure

DOCKET NO. 386 – T-Mobile Northeast LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 123 Pine Orchard Road, Branford, Connecticut.

Connecticut
Siting
Council

January 28, 2010

DRAFT Findings of Fact

Introduction

1. T-Mobile Northeast LLC (T-Mobile), in accordance with the provisions of Connecticut General Statutes (CGS) §§ 16-50g through 16-50aa, applied to the Connecticut Siting Council (Council) on September 14, 2009 for the construction, operation, and maintenance of a 125-foot wireless telecommunications facility located at 123 Pine Orchard Road, Branford, Connecticut. (T-Mobile 1, p. 1)
2. T-Mobile is a Delaware corporation with an office in Bloomfield, Connecticut. T-Mobile is licensed by the Federal Communications Commission (FCC) to construct and operate a personal wireless service system in Connecticut. (T-Mobile 1, p. 2)
3. The party in this proceeding is the applicant. An intervenor is New Cingular Wireless PCS LLC (AT&T). (Transcript 1 – 12/15/09, 3:00 p.m. [Tr. 1], p. 6)
4. The purpose of the proposed facility is to provide wireless service for T-Mobile and AT&T to the Pine Orchard Road area of Branford, including the Amtrak rail corridor. (T-Mobile 1, p. 5, Tab H; Tr. 1, pp. 98-99; Tr. 2, pp. 71-73, 89-90)
5. Pursuant to CGS § 16-50m, the Council, after giving due notice thereof, held a public hearing on December 15, 2009, beginning at 3:00 p.m. and continuing at 7:00 p.m. at the Branford Community House, 46 Church Street, Branford, Connecticut. (Tr. 1, p. 3; Transcript 2 – 12/15/09, 7:10 p.m. [Tr. 2], p. 2)
6. The Council and its staff conducted an inspection of the proposed site on December 15, 2009, beginning at 2:00 p.m. The applicant flew a four-foot diameter balloon at the site from 12:00 p.m. to 4:30 p.m. to simulate the height of the proposed tower. The balloon was flown at its intended height of 125 feet above ground level (agl) during the field review. (T-Mobile 6)
7. Notice of the application was sent to all abutting property owners by certified mail. All notices were claimed. Public notice of the application was published in the New Haven Register on August 6 and August 8, 2009. (T-Mobile 1, Tab F, Tab G; T-Mobile 2, Q. 1)
8. T-Mobile installed a four-foot by six-foot sign at the entrance to the property on November 16, 2009. The sign presented information regarding the project and public hearing. (T-Mobile 3a)
9. Pursuant to CGS § 16-50l(b), T-Mobile provided notice to all federal, state and local officials and agencies listed therein. (T-Mobile 1, Tab I)

State Agency Comment

10. Pursuant to General Statutes § 16-50j(h), on October 15, 2009 and December 16, 2009, the following State agencies were solicited to submit written comments regarding the proposed facility: Department of Environmental Protection (DEP), Department of Public Health (DPH), Council on Environmental Quality (CEQ), Department of Public Utility Control (DPUC), Office of Policy and Management (OPM), Department of Economic and Community Development (DECD), the Department of Transportation (DOT) and the Department of Agriculture (DOAg). (Record)
11. The Council received a written no comment response from the DPH Drinking Water Section on October 19, 2009 and the DOT Bureau of Engineering and Highway Operations on December 2, 2009. (Record)
12. No response was received from the DOAg, DEP, CEQ, DPUC, OPM, or DECD. (Record)

Municipal Consultation

13. T-Mobile submitted a technical report to Anthony DaRos, the First Selectman of the Town of Branford, on May 28, 2009. T-Mobile met with First Selectman DaRos on June 16, 2009. The Town did not schedule a town hearing on the application. (T-Mobile 1, pp. 17-18)
14. T-Mobile offered the town lease-free space on the tower for municipal service antennas. The town did not respond to this offer. (T-Mobile 1, p. 8; Tr. 1, p. 62)

Public Need for Service

15. In 1996, the United States Congress recognized a nationwide need for high quality wireless telecommunications services, including cellular telephone service. Through the Federal Telecommunications Act of 1996, Congress seeks to promote competition, encourage technical innovations, and foster lower prices for telecommunications services. (Council Administrative Notice Item No. 7)
16. In issuing cellular licenses, the Federal government has preempted the determination of public need for cellular service by the states, and has established design standards to ensure technical integrity and nationwide compatibility among all systems. T-Mobile is licensed by the FCC to provide wireless service to New Haven County. (Council Administrative Notice Item No. 7; T-Mobile 1, p. 7)
17. The Telecommunications Act of 1996 prohibits local and state entities from discriminating among providers of functionally equivalent services. (Council Administrative Notice Item No. 7)
18. The Telecommunications Act of 1996, a Federal law passed by the United States Congress, prohibits any state or local entity from regulating telecommunications towers on the basis of the environmental effects of radio frequency emissions to the extent that such towers and equipment comply with FCC's regulations concerning such emissions. This Act also blocks the Council from prohibiting or acting with the effect of prohibiting the provision of personal wireless service. (Council Administrative Notice Item No. 7)
19. In an effort to ensure the benefits of wireless technologies to all Americans, Congress enacted the Wireless Communications and Public Safety Act of 1999. The purpose of this legislation was to promote public safety through the deployment of a seamless, nationwide emergency communications infrastructure that includes wireless communications services. (T-Mobile 1, p. 6)

20. The site would provide enhanced 911 services to the proposed service area. (T-Mobile 1, p. 6)
21. The proposed facility would be an integral component of T-Mobile's and AT&T's wireless network in New Haven County. Presently, T-Mobile and AT&T both have degraded service in the Pine Orchard Road/Route 146 area of Branford. (T-Mobile 1, p. 5; AT&T 1; AT&T 2, Q. 1)

Site Selection

22. T-Mobile established a search ring for the proposed service area in July of 2008. The ring was centered in the Pine Orchard Road-Knollwood Drive area and extended outward for a half mile. Other areas were considered outside of the ring in an attempt to find the best possible location to provide service. T-Mobile sought to install a facility as close to the Amtrak rail line as possible to meet customer needs. (T-Mobile 3 a, Q. 6; Tr. 1, pp. 26-30, 95)
23. The search included identification of potential structures that could be used for telecommunications purposes and the examination of area properties to identify potential telecommunications sites. (T-Mobile 1, Tab J; T-Mobile 3a, Q. 5)
24. The nearest T-Mobile facility to the proposed site is a 90-foot smokestack facility located at 50 Maple Street in Branford, approximately 1.2 miles to the west. Coverage from this site or other nearby sites does not extend to the proposed service area. (T-Mobile 1, Tab H)
25. T-Mobile did not identify any structures in the search area that would be suitable for a telecommunications facility. (T-Mobile 1, Tab J)
26. After determining there were no viable structures within the search area, T-Mobile searched for properties suitable for tower development. T-Mobile investigated 11 different locations and selected one for tower development. The ten rejected locations and reasons for their rejection are as follows:
 - a) Pine Orchard Firehouse, 180 Pine Orchard Road – fire department association not interested in lease;
 - b) Shoreline Pet Lodge, 157 Pine Orchard Road – landowner did not respond to inquiries;
 - c) Tabor Property, town property – town not interested in lease;
 - d) Birch Road, town property – town not interested in lease;
 - e) Pine Orchard School, 190 Pine Orchard Road – town not interested in lease;
 - f) 153 Pine Orchard Road, town property – lot is only 0.35 acre, too small for development;
 - g) 213 Pine Orchard Road – subject to deed restriction that only allows residential use;
 - h) 45 Tabor Drive, Tabor Lutheran Church – would not meet coverage objectives;
 - i) 44 Tabor Drive- would not meet coverage objectives;
 - j) 34 Montowese Street – property owner would only allow a facility on an existing barn, barn too low to meet coverage objectives.(T-Mobile 1, Tab J; T-Mobile 8; Tr. 1, pp. 16-25)
27. Amtrak would not allow T-Mobile to use the existing 30-foot catenaries within the Amtrak right-of-way since they are not structurally capable of handling additional loading. Additionally, the right-of-way in this area is too narrow to accommodate a tower facility. Amtrak would require any new structure to be a minimum distance of 35 feet from the tracks. (Tr. 1, pp. 76-77, 95-97; T-Mobile late file of 01/14/10)

28. T-Mobile assessed the property at 308 East Main Street that was suggested to the Council as a potential location for a facility by the property owner. This property is adjacent to an existing T-Mobile facility at 10 Sylvia Street in Branford and is not within the search area. (T-Mobile late file of 01/13/10)
29. AT&T established a search ring in December of 2008 that was centered in the Knollwood Drive area. AT&T investigated three sites prior to intervening in this proceeding, as follows:
 - a) Shoreline Pet Lodge, 157 Pine Orchard Road – landowner did not pursue lease agreement;
 - b) Hotchkiss Grove Parcel (near pet lodge) – landowner did not respond to inquiries;
 - c) Walsh Intermediate School – tower in this location would have to be 180 feet in height, wetland issues.(AT&T 1, Q. 9; Tr. 2, pp. 69-70, 74)

Facility Description

30. The proposed facility is located on a 3.75-acre parcel identified as 123 Pine Orchard Road, Branford. The parcel, owned by Malavasi Investments L.L.C., is used as commercial storage/trucking operation (refer to Figure 1). (T-Mobile 1, p. 8; Tab A, Tab M)
31. The parcel is located to the rear of 121 Pine Orchard Road, a 0.4-acre residential parcel also owned by Malavasi Investments L.L.C. (T-Mobile Tab B, Tab P)
32. The parcel is zoned residential (R3). A commercial facility has been operating at the site for approximately 45 years. (T-Mobile 1, p. 9; Tr. 1, pp. 78-79)
33. The parcel contains an office trailer and concrete warehouse building and a large parking area to the rear. The Amtrak rail corridor borders the parcel to the south. (T-Mobile 1, Tab B, Tab P)
34. Access to the site parcel would be from the paved driveway originating on Pine Orchard Road that crosses the 121 Pine Orchard Road property to access the rear gravel lot. (T-Mobile 3c, Q. 6)
35. T-Mobile proposes to construct a 125-foot monopole at the site. The tower site would be located at the rear of the parcel, along the south property boundary, approximately 120 feet south of the on-site warehouse building and 485 feet south of Pine Orchard Road (refer to Figure 2). (T-Mobile 1, p. 8, Tab B; T-Mobile 3a, Q. 8)
36. The monopole would be designed to support four levels of platform-mounted antennas with a 10-foot vertical separation between each level. It would be constructed in accordance with the Electronic Industries Association standard ANSI/TIA-222-F. (T-Mobile 1, Tab B; Tr. 1, p. 54)
37. T-Mobile proposes to install nine panel antennas and six tower amplifiers on a standoff arm mounts (t-arms) at the 122-foot level of the tower. (T-Mobile 1, Tab B)
38. AT&T proposes to install six panel antennas at the 112-foot level of the tower. (AT&T 1, Q. 4)
39. Youghioghny Communications Northeast, LLC d/b/a Pocket Wireless has expressed interest in the 102-foot level of the tower. The antenna and mounting requirements of Pocket Wireless are unknown. (Tr. 1, p. 53-55; T-Mobile late file of 01/14/10, Vergati)

40. Clearwire, a telecommunications provider operating in Connecticut, is interested in the 92-foot level of the tower. The antenna and mounting requirements of Clearwire are unknown. (Tr. 1, p. 53-55; T-Mobile late file of 01/14/10, Vergati)
41. T-Mobile proposes to construct a 50-foot by 50-foot equipment compound within a 75-foot by 75-foot lease area. T-Mobile would install three equipment cabinets on a concrete slab within the compound. AT&T would install a 12-foot by 20-foot equipment shelter within the compound. There would be enough space in the proposed compound for two additional carriers. (T-Mobile 1, Tab B; AT&T 1, Q. 8)
42. An eight-foot high chain link fence would enclose the compound. (T-Mobile 1, p. 9)
43. Access to the compound would be from the improved driveway and existing gravel lot on the property. T-Mobile proposes to expand the existing driveway at 121 Pine Orchard Road by 575 square feet and widen the existing curb cut by 19 feet to ensure all site access is on the landowner's property. Currently, the entrance area of the access drive is on property partially owned by the abutter to the west at 119 Pine Orchard Road (McNamara property). (T-Mobile, 1, Tab B; T-Mobile 3c, Q. 6)
44. T-Mobile anticipates a technician would visit the site once a month to service equipment. (T-Mobile 1, p. 13)
45. Underground utilities would service the compound from an existing pole on Pine Orchard Road. (T-Mobile 1, Tab B; Tr. 1, pp. 56-57)
46. The tower is approximately 50 feet north of the Amtrak railroad right-of-way and approximately 65 feet from the railroad tracks. Moving the tower closer to the tracks would put the site in Amtrak's review area and could potentially require T-Mobile to install temporary or permanent sheet piling to protect the rail bed. (T-Mobile 1, Tab B; Tr. 1, pp. 58-61, 76-77; T-Mobile late file of 01/14/10)
47. The tower is approximately 88 feet from the east property boundary (O'Neill property). (T-Mobile 1, Tab B)
48. The tower setback radius would extend onto the railroad right-of-way by 75 feet and the O'Neill property by 37 feet. The tower could be designed with a pre-engineered fault to prevent encroachment onto adjacent properties in the event of a tower failure. (T-Mobile 1, Tab B; T-Mobile 3c, Q. 11)
49. The tower is approximately 365 feet east of the residence at 119 Pine Orchard Road (McNamara residence) and 360 feet south of the residence at 117 Pine Orchard Road (Johansson residence). (T-Mobile 1, Tab B, Tab L)
50. There are 61 single-family residences within 1,000 feet of the tower site. (T-Mobile 1, Tab L)
51. Land use within a quarter-mile of the site consists of residential, the Amtrak rail corridor and a few commercial properties. Property located south of the site is zoned industrial. (Branford Plan of Conservation and Development; T-Mobile 1, Tab B, Tab M)
52. The tower site would be located at a ground elevation of 31 feet above mean sea level (amsl) at 41° 16' 29" north latitude and 72° 47' 35" west longitude. Surrounding terrain is generally flat to rolling. Trees in the area range from 55 to 65 feet in height. (T-Mobile 1, Tab M; Tr. 1, p. 34)

53. The estimated construction cost of the facility, not including T-mobile's or AT&T's radio equipment or antennas, is:

Tower and foundation	\$76,000.
Site development	79,000.
<u>Utility installation</u>	<u>43,000.</u>
<u>Total estimated cost</u>	<u>\$198,000.</u>

(T-Mobile 1, p. 19)

Environmental Concerns

54. The proposed facility would have no adverse effect on historic, architectural or archeological resources listed in or eligible for the National Register of Historic Places. The tower would not be visible from the Norton House, a structure on the National Register of Historic Places approximately 0.6 miles southeast of the proposed site. (T-Mobile 1, Tab N; Tr. 1, p. 41; T-Mobile late file of 01/14/10)
55. The site is not within any designated area indicating the presence of Federally threatened or endangered species or State endangered, threatened or special concern species. (T-Mobile 1, Tab N)
56. The tower would have minimal effect on bird migration. In accordance with U.S. Fish and Wildlife regulations, the tower would be less than 200 feet in height, would not be supported by guy wires and would not be have aviation lighting. (Tr. 1, pp. 113-114)
57. One large oak tree in front of 121 Pine Orchard Road would be removed to accommodate the expansion of the driveway. Although the tree is at the edge of the driveway improvement area, the tree has a shallow root system that could be damaged during driveway construction. (T-Mobile 1, Tab B; T-Mobile 3c, Q. 6; Tr. 1, pp. 32)
58. Development of the compound would not directly affect any wetlands or watercourses. The nearest water body is a pond located approximately 150 east of the proposed compound on an adjacent parcel (O'Neill property). The pond has steep banks and is bordered by mature forest. (T-Mobile 1, Tab K; T-Mobile 3e, Q. 7, 8, 9)
59. Erosion and sedimentation controls and other best management practices would be established and maintained for the duration of site construction. (T-Mobile 1, p. 17)
60. The site is not within a 100-year or 500-year floodplain. (T-Mobile 1, p. 14, Tab P)
61. Aircraft hazard obstruction marking or lighting of the tower is not proposed or required. (T-Mobile 1, p. 18, Tab B)
62. The cumulative worst-case maximum power density from the radio frequency emissions from the operation of the proposed T-Mobile antennas is calculated to be 6.9% of the standard for Maximum Permissible Exposure, as adopted by the FCC, at the base of the proposed tower. This calculation was based on methodology prescribed by the FCC Office of Engineering and Technology Bulletin No. 65E, Edition 97-01 (August 1997) that assumes all antennas would be pointed at the base of the tower and all channels would be operating simultaneously, which creates the highest possible power density levels. Under normal operation, the antennas would be oriented outward, directing radio frequency emissions away from the tower, thus resulting in significantly lower power density levels in areas around the tower base. (T-Mobile 1, p. 12, Tab O)

Visibility

63. The proposed tower would be visible year-round from approximately 50 acres within a 0.6 mile of the site (refer to Figure 3). The tower would be seasonally visible from an additional 33 acres within 0.6 mile of the site. (T-Mobile 1, Tab M)
64. The tower would be visible year-round from 633 acres of Long Island Sound and areas of Branford Harbor, approximately one mile south/southwest of the site. The tower would extend approximately 20-25 feet above the treeline when viewed from open water areas but would not be prominent given the distance. The tower would not be visible from adjacent beach areas. (T-Mobile 1, Tab M; Tr. pp. 39, 104-105, 112-113)
65. Visibility of the proposed tower from specific locations within a 0.6 mile radius of the site is as follows:

Specific Location and Area Receptors	Visible	Approximate Portion of Tower Visible	Approx. Distance from Tower*
Route 146 north of Field Place (scenic road- residential area)	Yes	40 feet – unobstructed	0.6 mile southwest
Tabor Cemetery on Tabor Street (cemetery and commercial area)	Yes	12 feet – unobstructed	0.4 mile west
Route 146 south of Tabor Street (scenic road and residence)	Yes	25 feet – unobstructed	0.6 miles west
Knollwood Drive (residential area)	Yes	30 feet - unobstructed	0.2 mile north
Knollwood Drive/Pine Orchard Road intersection (residential area)	Yes	60 feet- unobstructed	0.2 mile south

(T-Mobile 1, Tab M)

* 0.1 mile = 528 feet.

66. The tower would be visible year-round from nine residential properties in the immediate area of the site including four properties on Pine Orchard Road, four properties on Knollwood Drive, and one property on Hotchkiss Grove Road. An additional eighteen residential properties in this area would have seasonal views of the tower including four properties on Knollwood Drive and 14 properties on Collins Drive. A typical view of visibility from the immediate area is shown in Figure 5. (T-Mobile 1, Tab M; Tr. 1, pp. 33-34, 71-76; Tr. 2, pp. 28-29, 91)
67. The tower would be visible year-round from eight residential properties and seasonally visible from four residential properties on Route 146, approximately 0.6 miles southwest of the site (refer to Figure 4). Two residential properties on Ark Road, 0.5 southwest of the site, would have seasonal views. (T-Mobile 1, Tab M)
68. The abutting residence at 119 Pine Orchard Road (McNamara property) would have seasonal views of the upper portion of the tower and seasonal views of the compound if there were no trailers being stored on the property that would block the view. (Tr. 1, pp. 33-36)
69. The abutting residence at 117 Pine Orchard Road would have year-round views of most of the tower from yard areas and the kitchen window. (Tr. 2, pp. 28-29, 91)
70. Removal of the large oak tree for driveway improvements would increase visibility of the tower from residential properties across from 121 Pine Orchard Road, including the residence at 5 Knollwood Drive. (Tr. 1, pp. 32-35)

71. The site is not subject to the Connecticut Coastal Management Act since it is outside of the coastal boundary. The nearest coastal resource is the Branford River, approximately 1,800 feet southwest of the site. (T-Mobile 1, Tab N)
72. The tower would not be visible from any known hiking trails maintained by the DEP or the Connecticut Forest and Parks Association. The Branford Trail, a town trail, is located 1,200 feet southeast of the site at its closest point. There may be limited views of the tower from this area of the trail. (Council Administrative Notice Item No. 19; Tr. 1, pp. 85-86)
73. The tower would be visible from two separate sections of Route 146, a state designated scenic road, for approximately 0.15 mile (refer to Figure 4). The views would be off to the side of the road rather than in the direction of travel. (T-Mobile 1, Tab M; Tr. 1, pp. 109-110)
74. Designing the tower as a tree would not be an effective stealth option since most of the open views are near range and there is not a lot of surrounding vegetation around the tower although it would blend in when viewed through vegetation or where only the top of the tower is visible. (Tr. 1, pp. 88-89, 111-112)
75. A flagpole or slim profile type tower (flush mounted antennas) would require T-Mobile to locate antennas at 135 and 125 feet agl to meet coverage objectives since only three antennas could be accommodated at each level. T-Mobile would not favor a traditional flagpole with a flag due flag maintenance and lighting requirements. (Tr. 1, pp. 89-94)
76. AT&T would require antenna heights of 122 and 112 feet on a flagpole or slim profile type tower to accommodate their proposed installation. (Tr. 1, pp. 50-52; Tr. 2, pp. 74-75)

T-Mobile - Existing and Proposed Wireless Coverage

77. T-Mobile is licensed by the FCC to provide service in the 1900 MHz frequency range (PCS). (T-Mobile 5, Q. 5)
78. T-Mobile designs and operates at the following signal level thresholds: in-vehicle service is -84 dBm and in-building service is -76 dBm. (T-Mobile 5, Q. 6)
79. T-Mobile currently has degraded coverage in the area of Pine Orchard Road, Route 146, Damascus Road, Meadow Wood Road, and the Amtrak rail corridor with signal levels ranging from -84 dBm to -110 dBm (refer to Figures 6 & 7). The proposed service area is primarily zoned for residential and would provide reliable coverage to customers who live, work and travel through the area. (Branford Plan of Conservation and Development; T-Mobile 1, p. 5; T-Mobile 2, Q. 8; T-Mobile 5, Q. 9)
80. T-Mobile experiences an interruption of service percentage of 0.9% in the proposed service area. (T-Mobile late file 01/13/10)
81. Installing antennas at 122 feet agl would provide reliable service to the proposed service area (refer to Figure 8) and provide capacity relief to adjacent facilities. (T-Mobile 3b, Q. 7)
82. Installing antennas at 112 feet would cause in-vehicle coverage to degrade to signal levels less than -84 dBm for a one-mile section of Route 146 south of the site along the shoreline. Shoreline coverage is one of the objectives of this site and is the basis for the proposed 122-foot antenna height. In-building coverage would also degrade along the periphery of the in-building coverage footprint (refer to Figure 7). (Tr. 1, p. 98-99; Tr. 2, p. 90; T-Mobile 2, Q. 9; T-Mobile 3b, Q. 10)

83. If the proposed site was constructed, T-Mobile would still need a site east of the Pine Orchard area to provide coverage to adjacent areas of southeast Branford. T-Mobile currently has an active search to identify a site. (Tr. 1, pp. 49-50)

AT&T - Existing and Proposed Wireless Coverage

84. AT&T is licensed by the FCC to provide cellular (850 MHz) and PCS service to Connecticut. (AT&T 1)
85. AT&T proposes to initially install cellular service at this site and expand by installing PCS equipment if the site requires additional capacity. (AT&T 2, Q. 3)
86. AT&T is designing the site with a coverage threshold of -74 dBm, sufficient for in-building coverage, in the Pine Orchard Road, Damascus Road, and Amtrak rail line area. (AT&T 2, Q. 2; Tr. 2, pp. 71-72)
87. AT&T's current coverage in the proposed service area ranges from -82 dBm to -92 dBm (refer to Figure 9). (AT&T 2, Q. 1)
88. AT&T currently experiences an drop call rate of 2% (average) in the proposed service area. (Tr. 1, p. 83)
89. AT&T's proposed installation at 112 feet would provide adequate coverage to the proposed service area at a signal level of -82 dBm with most of the area receiving a signal greater than -74 dBm (refer to Figure 10). (AT&T 2, Q. 6, Q. 7)
90. Installing antennas at 102 feet agl would cause in-building coverage to degrade along Route 146 to the south and west of the site, particularly in the shoreline area. (AT&T 2, Q. 7; Tr. 2, p. 73)
91. The proposed installation would not be able to provide adequate coverage to areas of Route 146 along the shoreline. AT&T would seek to develop another site to provide coverage to this area and is currently investigating locations southwest of the site in the Short Beach area. (Tr. 2, pp. 73-74, 78, Council Administrative Notice Item No. 16)



SITE



AERIAL MAP
SCALE : 1" = 500'-0"

GRAPHIC SCALE



(IN FEET)
1 inch = 500 ft.

Figure 1: Location of site at 123 Pine Orchard Road, Branford. (T-Mobile 1, Tab B)

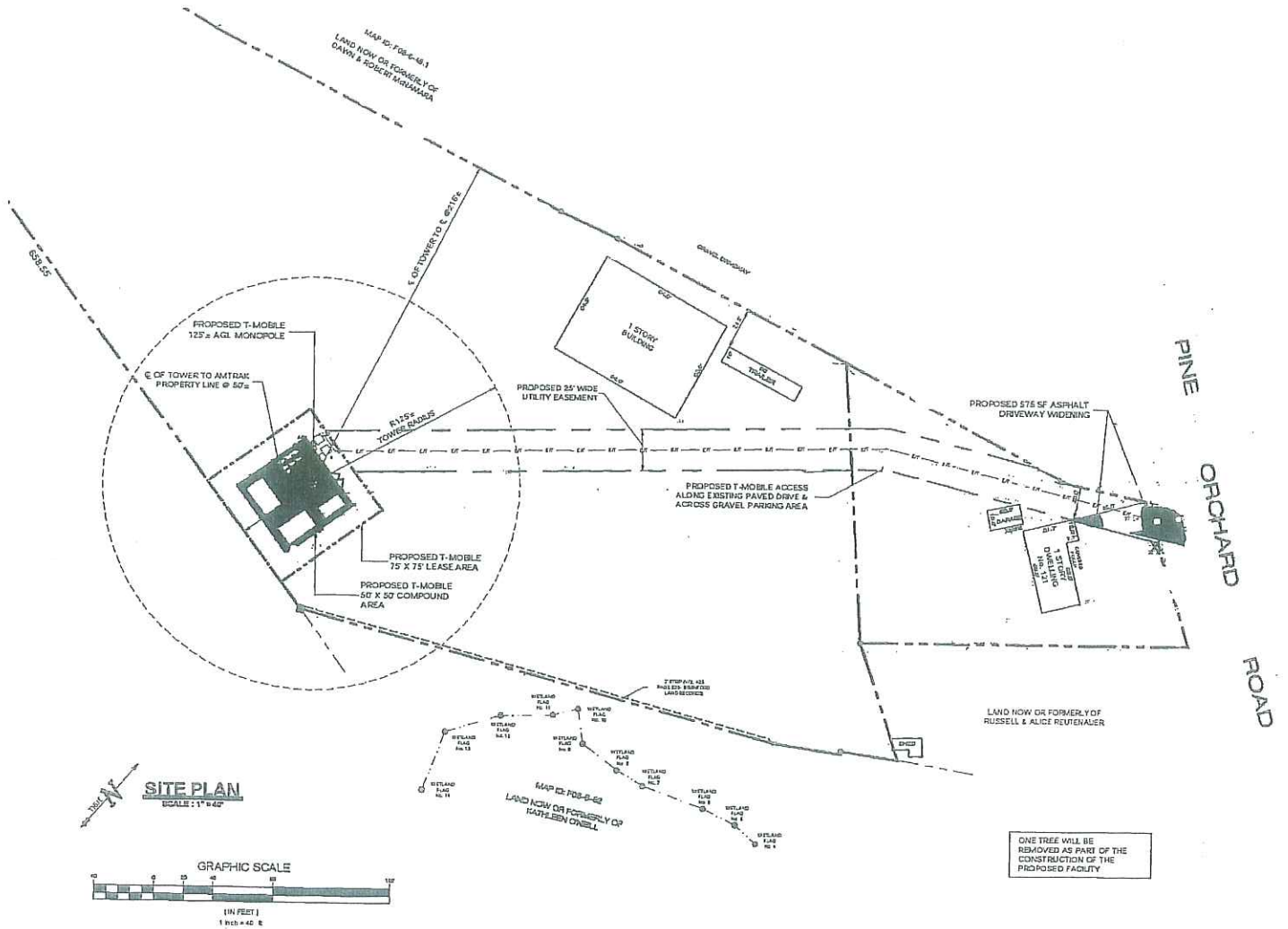


Figure 2: Site plan of proposed location at 123 Pine Orchard Road. (T-Mobile 1, Tab B)

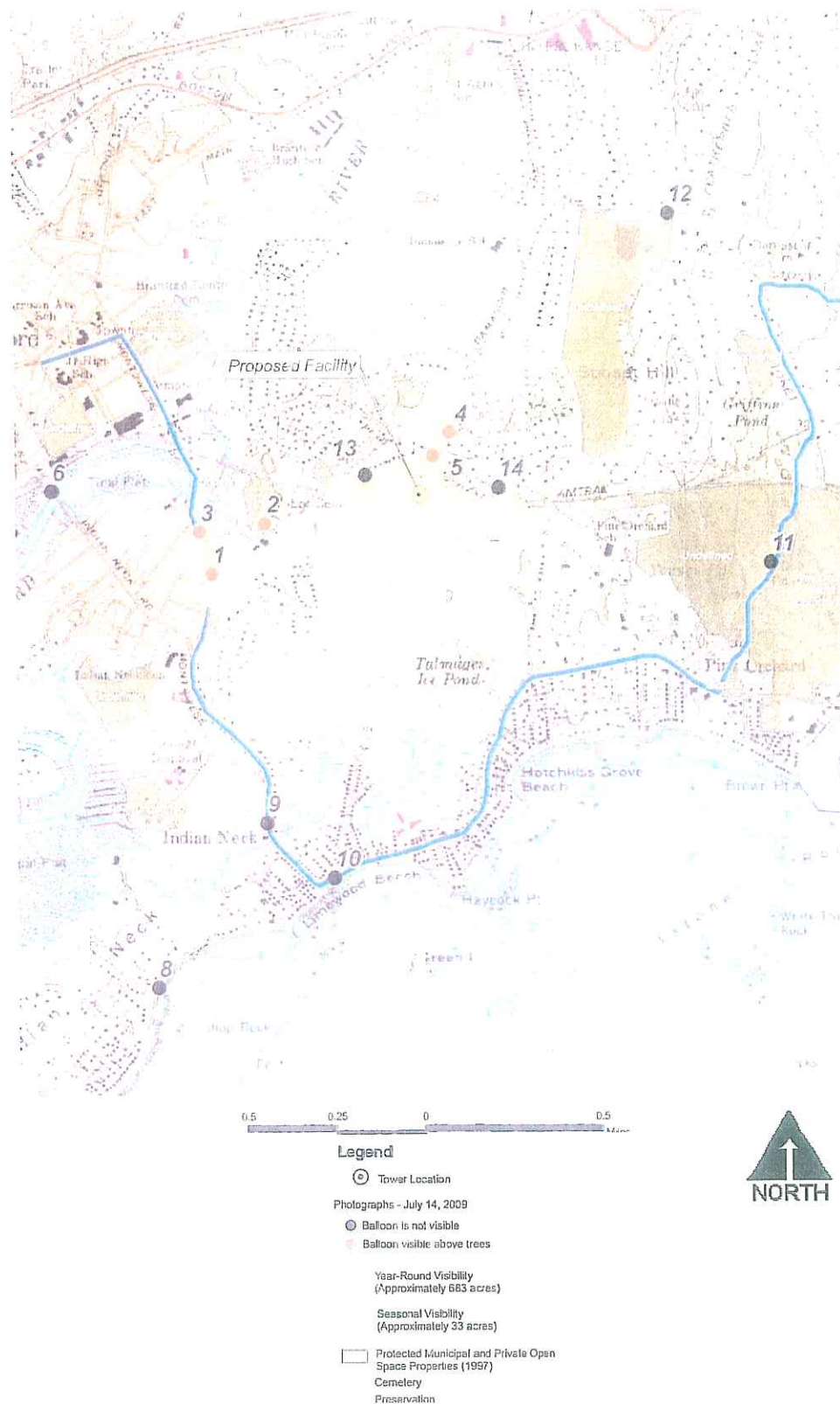


Figure 3: Projected visibility of proposed site. (T-Mobile 1, Tab M)

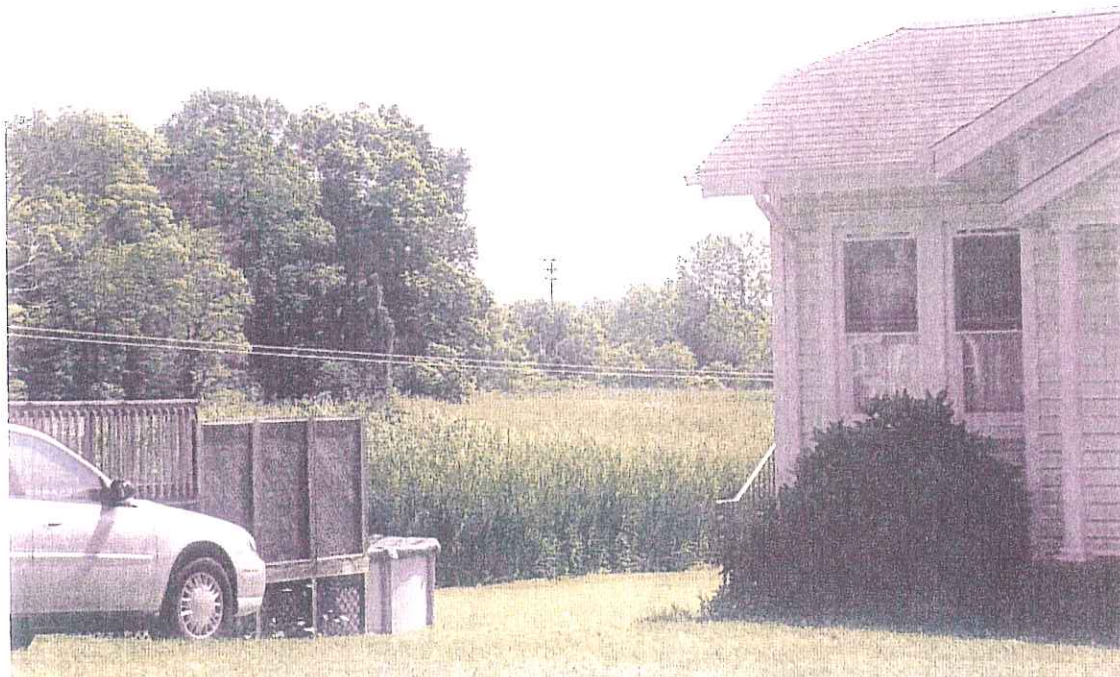


Figure 4: Photo-simulation of proposed tower from Route 146 0.6 mile west of site. Route 146 is a scenic road (location 1 on Figure 3). (T-Mobile 1, Tab M)



Figure 5: Photo-simulation of proposed tower from intersection of Knollwood Drive, 0.2 mile north of site (location 4 on Figure 3). (T-Mobile 1, Tab M)

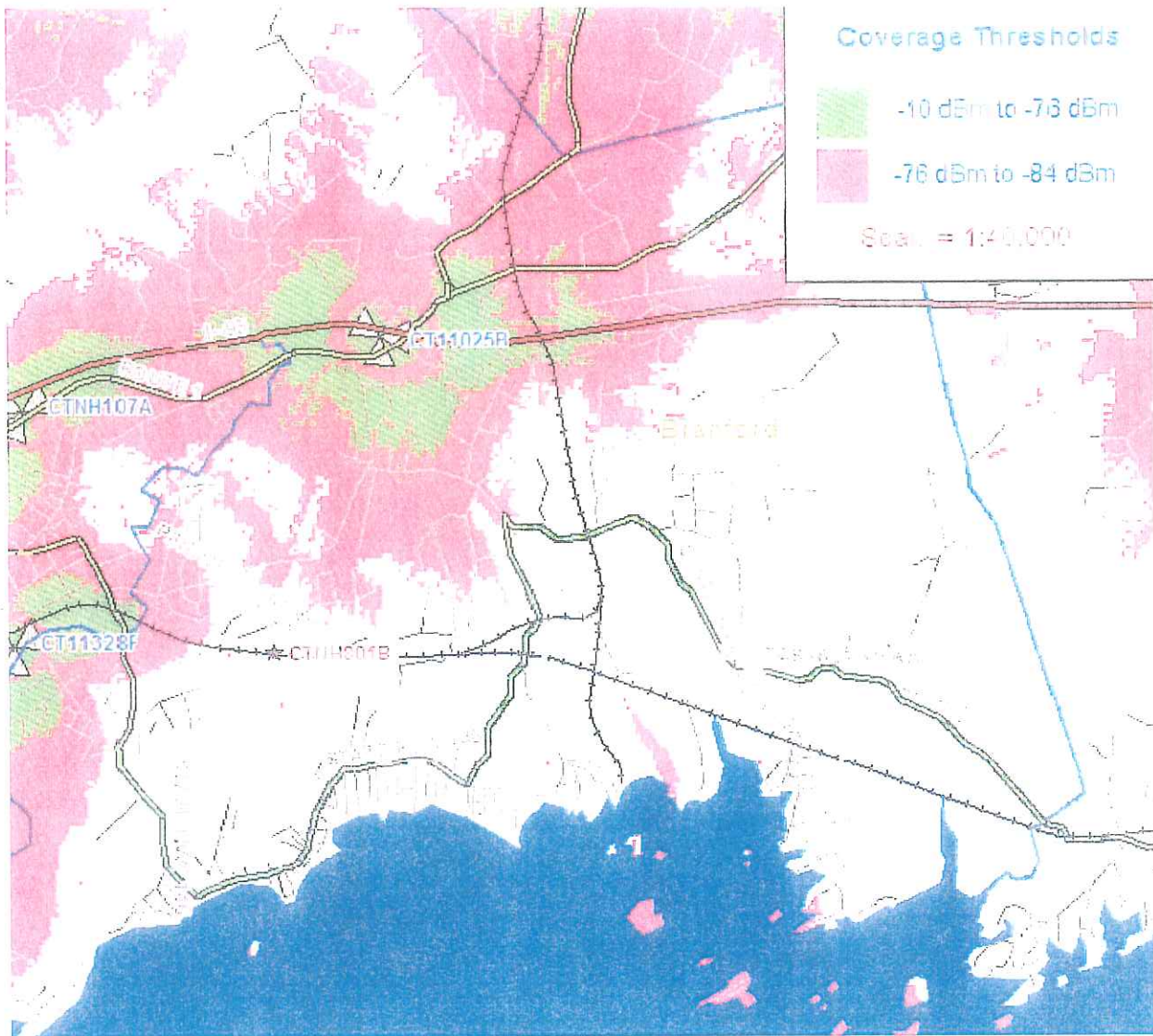


Figure 6: T-Mobile's existing wireless coverage. (T-Mobile 3b)

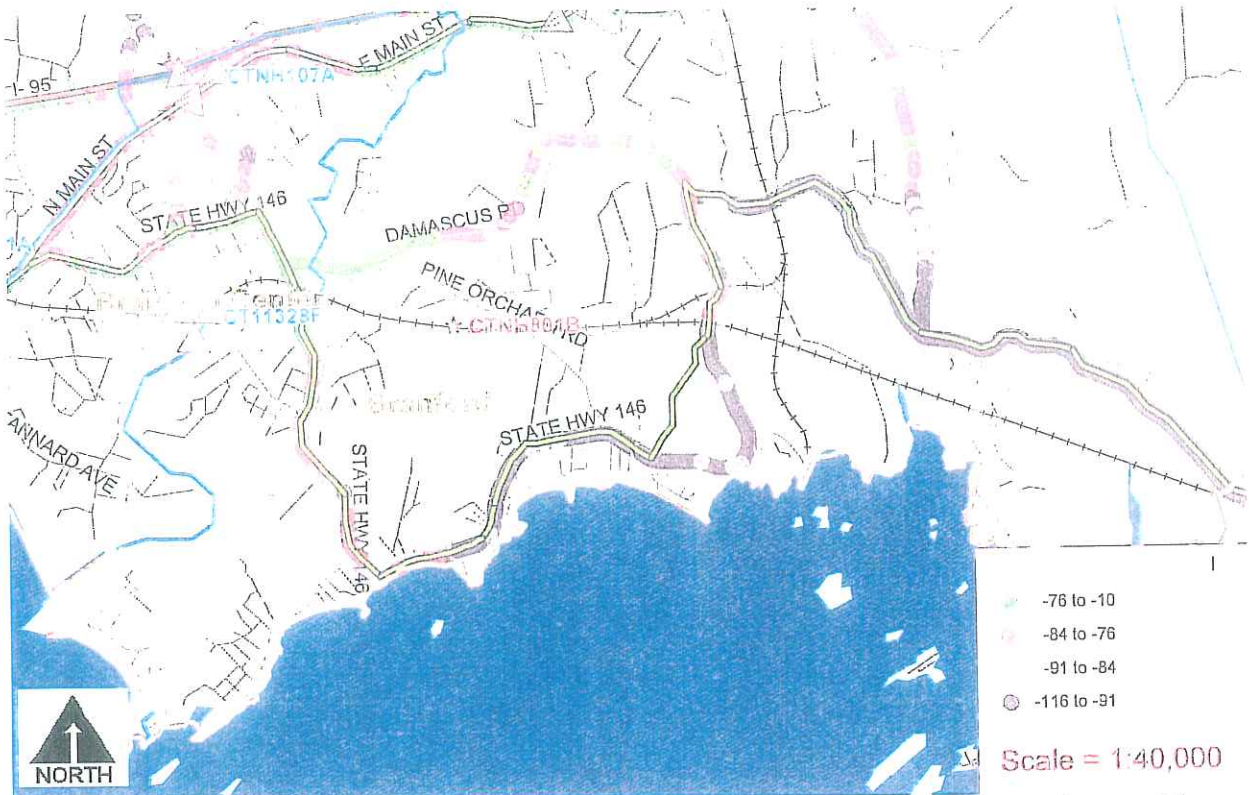


Figure 7: T-Mobile drive test data depicting inadequate coverage in areas east to the southwest of the site. (T-Mobile 2, Q. 8)

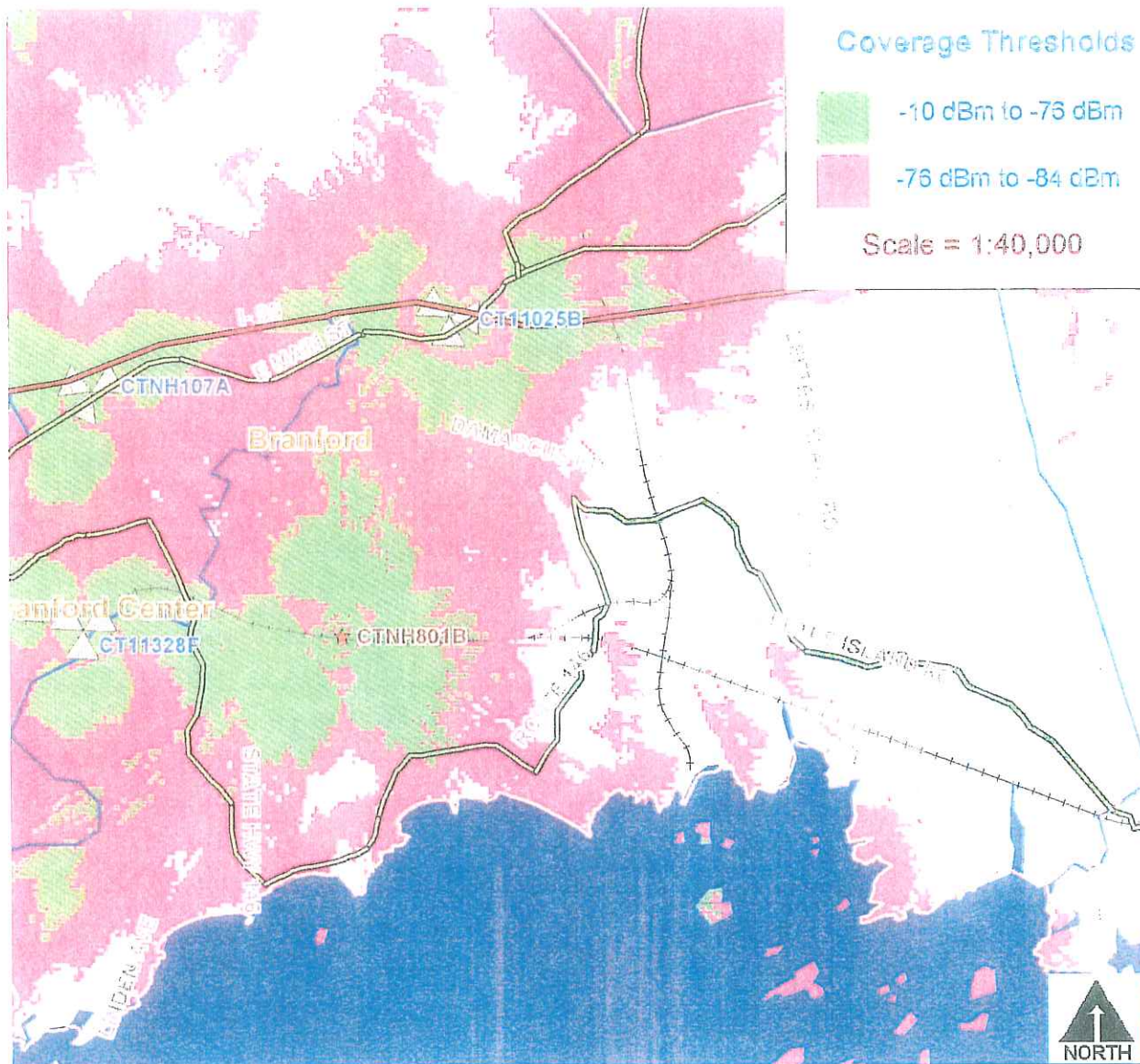


Figure 8: T-Mobile's proposed wireless coverage with antennas mounted 122 feet agl.
(T-Mobile 2, Q. 9)

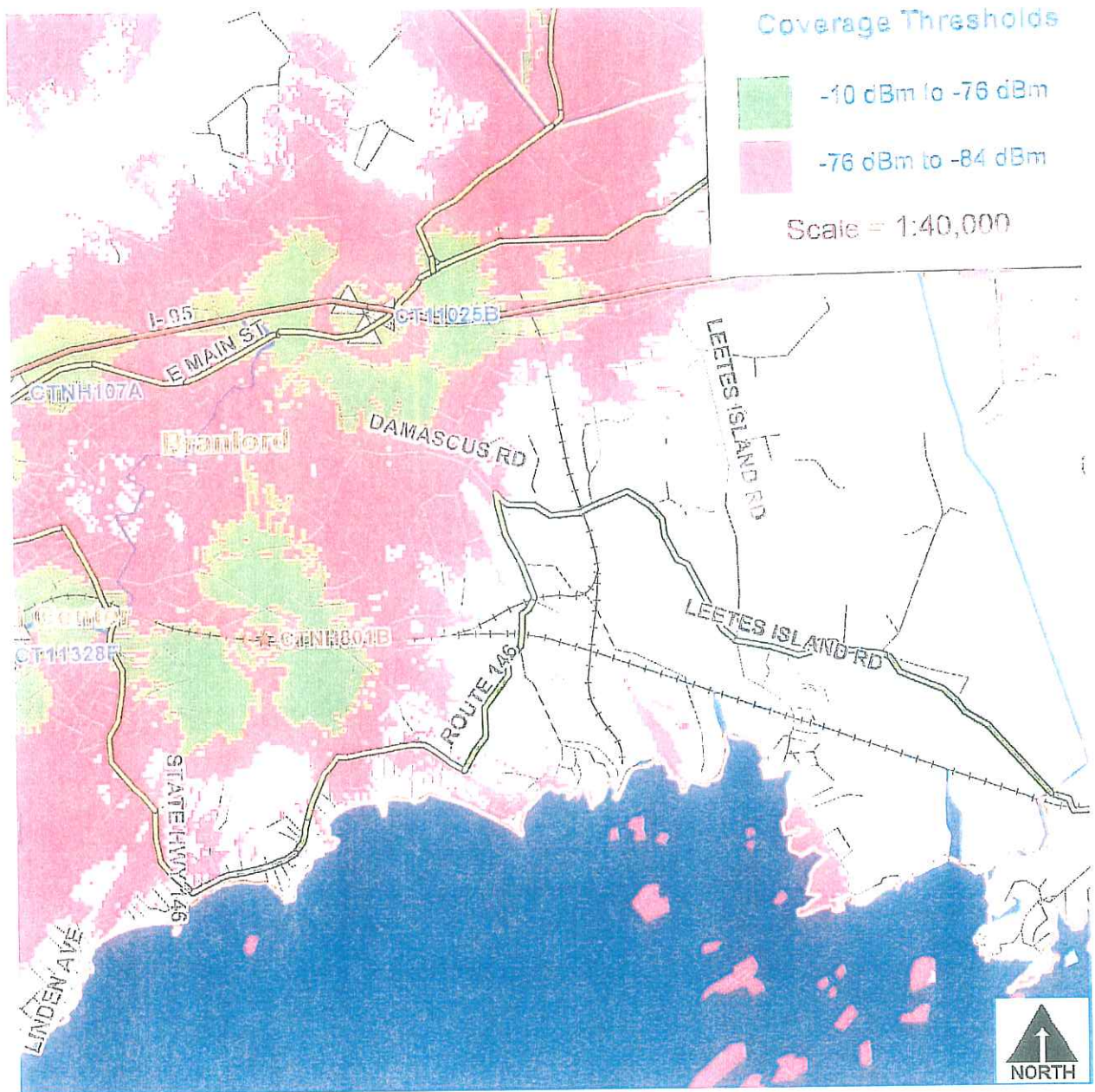


Figure 9: T-Mobile wireless coverage with antennas at 112 feet agl.
(T-Mobile 2, Q. 9)

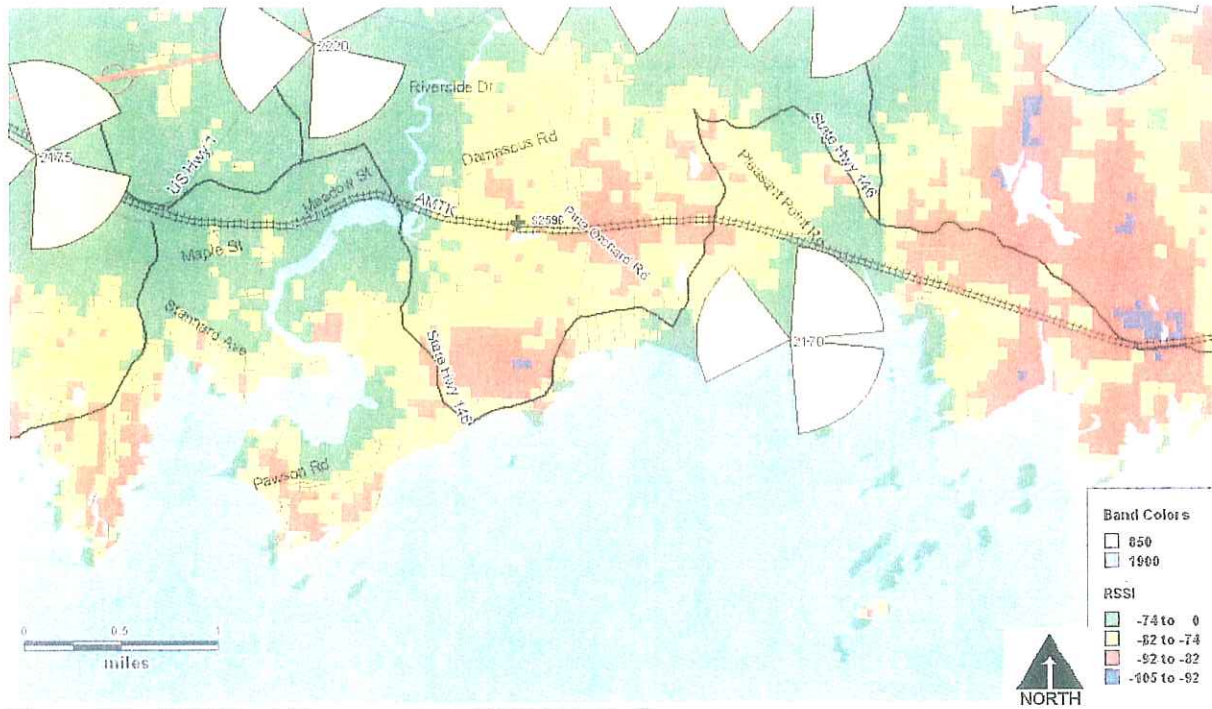


Figure 10: AT&T existing coverage. (AT&T 2, Q. 6)

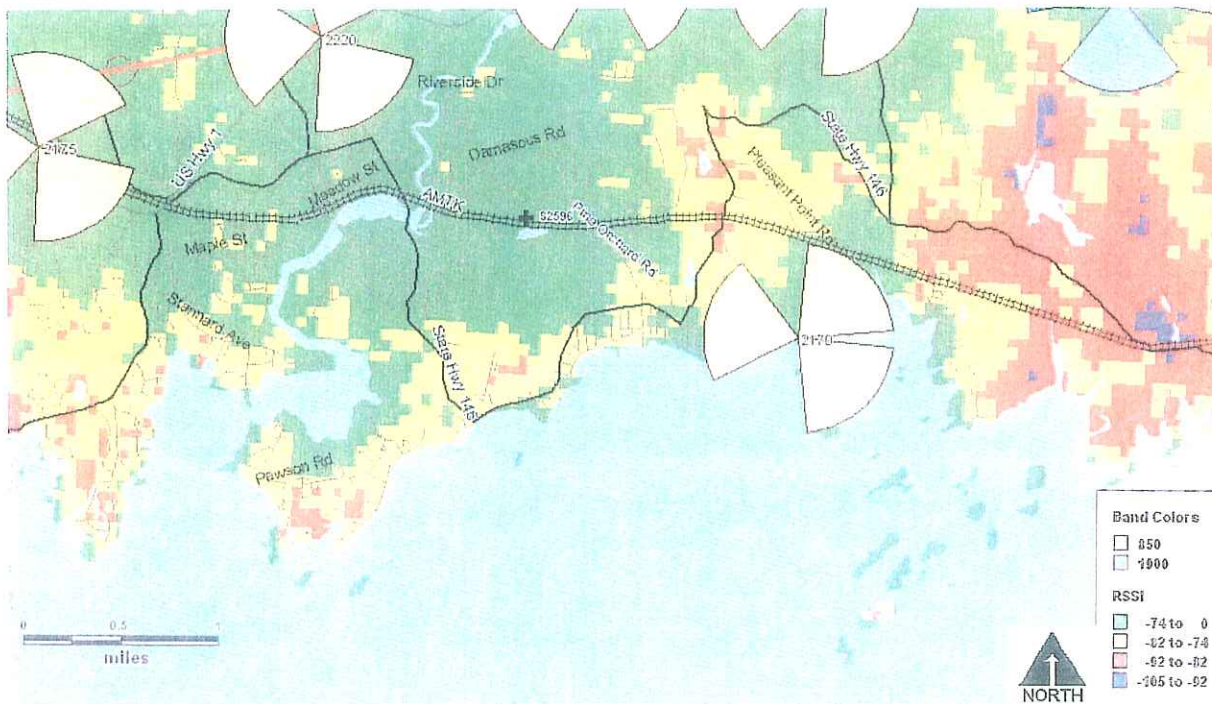


Figure 10: AT&T proposed coverage with antennas at 112 feet agl. (AT&T 2, Q. 7)

LIST OF PARTIES AND INTERVENORS
SERVICE LIST

Status Granted	Document Service	Status Holder (name, address & phone number)	Representative (name, address & phone number)
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