

**BLUE SKY TOWERS, LLC (“BLUE SKY”)
AND
NEW CINGULAR WIRELESS PCS, LLC (AT&T)**

**For a Certificate of
Environmental Compatibility and Public Need**

–EVERGREEN STREET FACILITY–

**Blue Sky Towers, LLC (“Blue Sky”)
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Norfolk, MA 02056**

**New Cingular Wireless PCS, LLC (“AT&T”)
500 Enterprise Drive
Rocky Hill, CT 06067**

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I. Introduction

A. Purpose and Authority

Pursuant to Chapter 277a, § 16-50g et seq. of the Connecticut General Statutes (C.G.S.), as amended, and § 16-50j-1 et seq. of the Regulations of Connecticut State Agencies (R.C.S.A.), as amended, Blue Sky Towers, LLC (“Blue Sky”) and New Cingular Wireless PCS, LLC (“AT&T”) hereby submit an application and supporting documentation (collectively, the “Applicants”) for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications tower facility (the “Facility”). The Facility is proposed on a 1 acre parcel of land owned by Chapin & Bangs Company (the “Parcel”) with an address of 220 Evergreen Street in the City of Bridgeport. The Parcel is undeveloped, zoned I-L (Industrial) and is currently used as part of a steel fabrication business. A tower is proposed in conjunction with other existing and proposed facilities, in order to allow AT&T and other FCC licensed wireless carriers to provide their services in this area of Bridgeport as part of relocating existing wireless facilities at 370 North Avenue (“HI HO Facility”). Of note, the proposed replacement tower would be in the same location as a temporary tower facility on the same property, which was approved by the Connecticut Siting Council in Petition No. 1169.

B. Executive Summary

The proposed tower Facility at 220 Evergreen Street in Bridgeport is needed in conjunction with other existing and proposed facilities in order for AT&T to replace service in this part of the state after the HI HO Facility is decommissioned. AT&T, and its affiliates, have operated a wireless facility at the HI HO Facility for approximately 10 years. AT&T’s Facility at that location was originally approved by the City of Bridgeport. Sprint and Verizon also operate wireless facilities at the HI HO Facility. There are four (4) silos, a bridge and a steel structure (collectively the “support structure”) that make up the HI HO Facility. Due to the excessive structural deterioration of the existing support structure on which AT&T’s antennas are located, the entire structure was deemed a hazard to any technicians, tower hands, or anyone else working on or around this structure. Additionally, AT&T radiofrequency engineering was unable to add proposed LTE capacity to its existing facility at the HI HO Facility and AT&T network operations would not restore service from the site in

the event of an outage due to the existing site conditions. Accordingly, it was recommended that AT&T relocate its antennas from the HI HO Facility.

The relocation site search was conducted by Blue Sky and AT&T based on two principal factors: 1) the need to replicate as much coverage as possible from the HI HO Facility to be decommissioned; and 2) construction of a facility in the vicinity of this industrial and commercial part of Bridgeport. A review of other communications towers and facilities within proximity to the HI HO Facility and the geographic area within AT&T's surrounding sites in Bridgeport indicated that none would provide adequate replacement coverage. Based on the location of the HI HO Facility and coverage objectives, the search area focused on the industrially zoned areas of Bridgeport in close proximity. Of all the sites evaluated, the 220 Evergreen Street site location was deemed by Blue Sky and AT&T to best meet technical service requirements, be legally available for a tower, and otherwise minimize environmental effects to the extent practicable. Other locations evaluated, were either legally unavailable for tower siting, technically inadequate to satisfy coverage requirements in this part of the state or determined by the Applicants to have comparatively greater overall environmental effects.

Due to the time required for permitting, construction and operation of a permanent replacement site for the HI HO Facility, AT&T coordinated with Blue Sky for the development of a temporary tower at 220 Evergreen Street to allow for more immediate relocation from the existing HI HO Facility. On July 2, 2015, AT&T filed a Petition for a Temporary Tower at 220 Evergreen Street. The temporary tower is an interim measure which was intended to address the existing HI HO Facility safety and wireless network issues AT&T was experiencing and while a permanent site can be approved, constructed and integrated into AT&T's wireless network. A copy of the Council's approval for the temporary tower in Petition 1169 is included in Attachment 1. The temporary facility is in the construction phase as of the time of this filing.

On August 28, 2015, AT&T filed a technical report with the City of Bridgeport for the permanent replacement tower at 220 Evergreen Street commencing the 16-50/ consultation. After discussions with City staff in Bridgeport, we were advised that the City did not require further consultation or a public information session in advance of a

CSC application. Attachment 11 contains a letter from the City of Bridgeport noting its opinion that the underlying parcel is suitable for a tower site.

The tower as proposed would replace the existing temporary tower, as approved in Petition 1169, at 220 Evergreen Street. The property consists of an approximately 1 acre parcel ("Lot 2"), owned by Chapin & Bangs Company, which owns an adjoining parcel and is used as part of its steel fabrication services. The lot is in an area of the City zoned I-L (Industrial) with existing access from Evergreen Street. Blue Sky Towers, LLC ("Blue Sky") has entered into a lease with Chapin & Bangs Company and AT&T has entered into an agreement with Blue Sky for construction of a permanent replacement tower facility on the Parcel which would be owned by Blue Sky. AT&T would install and operate its wireless facility on the replacement tower at the site. Blue Sky anticipates that Sprint and Verizon could relocate their facilities to the replacement tower in the future.

The replacement tower is proposed as a new self-supporting monopole 135' in height which is slightly taller than the existing 128' temporary tower on site. AT&T would install up to twelve (12) panel antennas and related equipment at a centerline height of 130' above grade level (AGL) on the replacement tower. The tower would be designed for future shared use of the structure by two additional FCC licensed wireless carriers. AT&T would install a permanent 12' x 20' equipment shelter within the existing 3,617.5 s.f. tower compound on site. The existing tower compound would remain the same, as approved in Petition 1169, enclosed by an 8' high chain link fence and would accommodate for future shared use of the facility by other carriers who will likely also relocate here from the HI HO Facility. Vehicle access to the facility exists over a 15' wide access easement with a gate on Evergreen Street. Utility connections are routed overhead from an existing utility pole located along Evergreen Street. The facility will be unmanned with no sanitary or water services and generates on average 1 vehicle trip per month by each wireless carrier consisting of a service technician in a light duty van or truck.

The Applicants respectfully submit that the public need for a replacement tower in this area of Bridgeport outweighs the environmental effects from the Facility as proposed. For reference as part of the application process, visibility can be compared relative to the temporary tower which would be removed as part of siting the replacement tower.

Other environmental effects have been minimized by the Applicants' selection of a tower site location on a property within a dense industrial and commercial area of the City. Relative to need, AT&T's analysis indicates that there are several thousand people who live in the area currently served by 3G and 4G LTE. As proposed, the replacement Facility will enable AT&T to continue to provide a substantial portion of the service that would be lost in the subject area as a result of the decommissioning of the HI HO Facility.

C. The Applicants

The Applicant Blue Sky Towers, LLC is a Delaware limited liability company with its headquarters at 352 Park Street Suite 106, North Reading, Massachusetts. Blue Sky develops/builds, owns and leases numerous communications towers in the United States. Blue Sky entered into a long term lease with Chapin & Bangs Company and subsequently, a lease with AT&T. Blue Sky will construct, maintain and own the proposed Facility and would be the Certificate holder.

Applicant AT&T is a Delaware limited liability company with an office at 500 Enterprise Drive, Rocky Hill, Connecticut 06067. The company's member corporation is licensed by the Federal Communications Commission ("FCC") to construct and operate a personal wireless services system, which has been interpreted as a "cellular system", within the meaning of C.G.S. Section 16-50i(a)(6).

Neither company conducts any other business in the State of Connecticut other than the development of tower sites and provision of personal wireless services under FCC rules and regulations. Correspondence and/or communications regarding this Application shall be addressed to the attorneys for the Applicants:

Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
Attention: Christopher B. Fisher, Esq.
Daniel M. Laub, Esq.

A copy of all correspondence shall also be sent to:

Blue Sky Towers, LLC
352 Park Street Suite 106
North Reading, Massachusetts 01864
Attention: Sean Gormley

AT&T
500 Enterprise Drive
Rocky Hill, CT 06067
Attention: Michele Briggs

D. Application Fee

Pursuant to R.C.S.A. § 16-50v-1a (b), a check made payable to the Siting Council in the amount of \$1,250 accompanies this Application. Included in this Application and its accompanying attachments are reports, plans and visual materials detailing the design and location for the proposed Facility and the environmental effects associated therewith. A copy of the Siting Council's Community Antennas Television and Telecommunication Facilities Application Guide with page references from this Application is also included in Attachment 14.

E. Compliance with C.G.S. §16-50/ (c)

Neither of the Applicants is engaged in generating electric power in the State of Connecticut. Therefore, the Facility is not subject to C.G.S. § 16-50r. Furthermore, the proposed Facility has not been identified in any annual forecast reports. Accordingly, the proposed Facility is not subject to § 16-50/ (c).

II. **Service and Notice Required by C.G.S. § 16-50/ (b)**

Pursuant to C.G.S. § 16-50/ (b), copies of this Application have been sent by certified mail, return receipt requested, to municipal, regional, state, and federal officials. A certificate of service, along with a list of the parties served with a copy of the Application is included in Attachment 13. Pursuant to C.G.S. § 16-50/ (b), notice of the Applicant's intent to submit this application was published on two occasions in The Connecticut Post. The text of the published legal notice is included in Attachment 12. The original affidavits of publication will be provided to the Siting Council once

received from the publisher. Furthermore, in compliance with C.G.S. § 16-50/ (b), notices were sent to each person or entity appearing of record as the owner of a property which abuts the premises on which the Facility is proposed. Certification of such notice, a sample notice letter, and the list of property owners to whom the notice was mailed are also included in Attachment 12.

III. Statements of Need and Benefits

A. Statement of Need

1. United States Policy & Law - Wireless Facilities

United States policy and laws support the growth of wireless networks. In 1996, the United States Congress recognized the important public need for high quality wireless communications service throughout the United States in part through adoption of the Telecommunications Act (the "Act"). A core purpose of the Act was to "provide for a competitive, deregulatory national policy framework designed to accelerate rapidly private sector deployment of advanced telecommunications and information technologies to all Americans." H.R. Rep. No. 104-458, at 206 (1996) (Conf. Rep.). With respect to wireless communications services, the Act expressly preserved state and/or local land use authority over wireless facilities, placed several requirements and legal limitations on the exercise of such authority, and preempted state or local regulatory oversight in the area of emissions as more fully set forth in 47 U.S.C. § 332(c)(7). In essence, Congress struck a balance between legitimate areas of state and/or local regulatory control over wireless infrastructure and the public's interest in its timely deployment to meet the public need for wireless services.

Nineteen years later, it remains clear that the current White House administration, The Congress and the FCC continue to take a strong stance and act in favor of the provision of wireless service to all Americans. In December 2009, the President issued Proclamation 8460 which included wireless facilities within his definition of the nation's critical infrastructure and declared in part:

Critical infrastructure protection is an essential element of a resilient and secure nation. Critical infrastructure are the assets, systems, and networks, whether physical or virtual, so vital to the United States that their incapacitation or destruction would have a debilitating effect on

security, national economic security, public health or safety. From water systems to computer networks, power grids to cellular phone towers, risks to critical infrastructure can result from a complex combination of threats and hazards, including terrorist attacks, accidents, and natural disasters.¹

The President further identified the role of robust mobile broadband networks in his 2011 State of the Union address.² In 2009, The Congress directed the FCC to develop a national broadband plan to ensure that every American would have access to “broadband capability” whether by wire or wireless. What resulted in 2010 is a document entitled “Connecting America: The National Broadband Plan” (the “Plan”).³ Although broad in scope, the Plan’s goal is undeniably clear:

[A]dvance consumer welfare, civic participation, public safety and homeland security, community development, health care delivery, energy independence and efficiency, education, employee training, private sector investment, entrepreneurial activity, job creation and economic growth, and other national purposes.⁴ [internal quotes omitted]

The Plan notes that wireless broadband access is growing rapidly with “the emergence of broad new classes of connected devices and the rollout of fourth-generation (4G) wireless technologies such as Long Term Evolution (LTE) and WiMAX.”⁵ A specific goal of the Plan is that “[t]he United States should lead the world in mobile innovation, with the fastest and most extensive wireless networks of any nation.”⁶

In April 2011, the FCC issued a Notice of Inquiry concerning the best practices available to achieve wide-reaching broadband capabilities across the nation including

¹ Presidential Proclamation No. 8460, 74 C.F.R. 234 (2009).

² Cong. Rec. H459 (Jan. 25, 2011), also *available at* <http://www.whitehouse.gov/the-press-office/2011/01/25/remarks-president-state-union-address>. Specifically the President stressed that in order “[t]o attract new businesses to our shores, we need the fastest, most reliable ways to move people, goods, and information—from high-speed rail to high-speed Internet.”

³ Connecting America: The National Broadband Plan, Federal Communications Commission (2010), *available at* <http://www.broadband.gov/plan/>.

⁴ *Id.* at XI.

⁵ *Id.* at 76.

⁶ *Id.* at 25.

better wireless access for the public.⁷ The public need for timely deployment of wireless infrastructure is further supported by the FCC's Declaratory Ruling interpreting § 332(c)(7)(B) of the Telecommunications Act and establishing specific time limits for decisions on land use and zoning permit applications.⁸ More recently, the critical importance of timely deployment of wireless infrastructure to American safety and economy was confirmed in the Middle Class Tax Relief and Job Creation Act of 2012, which included a provision, Section 6409, that together with 2015 FCC regulations, preempts a discretionary review process for eligible modifications of existing wireless towers or base stations.⁹

2. United States Wireless Usage Statistics

Over the past thirty years, wireless communications have revolutionized the way Americans live, work and play.¹⁰ The ability to connect with one another in a mobile environment has proven essential to the public's health, safety and welfare. As of June 2013, there were an estimated 336 million wireless subscribers in the United States.¹¹ Wireless network data traffic was reported at 3.2 trillion megabytes, which represents a 723% increase from 2010.¹² Other statistics provide an important sociological understanding of how critical access to wireless services has become. In 2005, 8.4% of households in the United States had cut the cord and were wireless only.¹³ By December 2014, that number grew exponentially to an astonishing 44% of

⁷ FCC 11-51: Notice of Inquiry, In the Matter of Acceleration of Broadband Deployment: Expanding the Reach and Reducing the Cost of Broadband Deployment by Improving Policies Regarding Public Rights of Way and Wireless Facilities Siting, available at http://transition.fcc.gov/Daily_Releases/Daily_Business/2011/db0407/FCC-11-51A1.pdf.

⁸ WT Docket No. 08-165- Declaratory Ruling on Petition for Declaratory Ruling to Clarify Provisions of Section 332(c)(7)(B) to Ensure Timely Siting Review and to Preempt Under Section 253 State and Local Ordinances that Classify All Wireless Siting Proposals as Requiring a Variance ("Declaratory Ruling").

⁹ Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. No. 112-96, §6409 (2012), available at <http://gpo.gov/fdsys/pkg/BILLS-112hr3630enr/pdf/BILLS-112hr3630enr.pdf>; see also H.R. Rep. No. 112-399 at 132-33 (2012)(Conf. Rep.), available at <http://www.gpo.gov/fdsys/pkg/CRPT-112hrpt399/pdf/CRPT-112hrt399.pdf>.

¹⁰ See, generally, History of Wireless Communications, available at http://www.ctia.org/media/industry_info/index.cfm/AID/10388 (2011)

¹¹ CTIA's Wireless Industry Indices: Semi-Annual Data Survey Results, A Comprehensive Report from CTIA Analyzing the U.S. Wireless Industry, Mid-Year 2013 Results (Semi-Annual Data Survey Results). See also, "CTIA's Annual Survey Says US Wireless Providers Handled 3.2 Trillion Megabytes of Data Traffic in 2013 for a 120 Percent Increase Over 2012" available at <http://www.ctia.org/resource-library/press-releases/archive/ctia-annual-survey-2013>.

¹² Id.

¹³ CTIA Wireless Quick Facts, available at <http://www.ctia.org/your-wireless-life/how-wireless-works/wireless-quick-facts> citing *Early Release of Estimates from the National Health Interview Survey, December 2012, National Center for Health Statistics*, June 2013.

all households.¹⁴ Connecticut in contrast lags behind in this statistic with 20.6% wireless only households.¹⁵

Wireless access has also provided individuals a newfound form of safety. Today, approximately 70% of *all* 9-1-1 calls made each year come from a wireless device.¹⁶ Beginning May 15, 2014, wireless carriers in the U.S. voluntarily supported Text-to-911, a program that allows users to send text messages to emergency services as an alternative to placing a phone call. AT&T and other licensed FCC wireless carriers will support Text-to-911.¹⁷ Parents and teens have also benefited from access to wireless service. In a 2010 study conducted by Pew Internet Research, 78% of teens responded that they felt safer when they had access to their cell phone.¹⁸ In the same study, 98% of parents of children who owned cell phones stated that the main reason they have allowed their children access to a wireless device is for the safety and protection that these devices offer.¹⁹

Wireless access to the internet has also grown exponentially since the advent of the truly “smartphone” device. Cisco reports that in 2014 global mobile data traffic grew 69 percent reaching 2.5 exabytes a month.²⁰ Notably, mobile data traffic in 2014 was nearly 30 times the size of the entire global internet in 2000; specifically, one exabyte of traffic traversed the global Internet in 2000 and in 2014 mobile networks carried

¹⁴ Stephen J. Blumberg, Ph.D., and Julian V. Luke, Division of Health Interview Statistics, National Center for Health Statistics, “Wireless Substitution: Early Release of Estimates From the National Health Interview Survey, January - June 2014”, released December 12, 2014 and *available at* <http://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless201412.pdf>.

¹⁵ *Early Release of Estimates from the National Health Interview Survey, December 2012*, National Center for Health Statistics, June 2013. See also, “Wireless Substitution: State-level Estimates From the National Health Interview Survey, 2012”, National Health Statistics Report, No. 70, December 18, 2013.

¹⁶ Wireless 911 Services, FCC, *available at* <http://www.fcc.gov/guides/wireless-911-services>

¹⁷ See *Text-to-911: What you need to know (FAQ)* *available at* <http://www.cnet.com/news/text-to-911-what-you-need-to-know-faq>. It should be noted that while the carriers have committed to supporting 911 texting in their service areas, text-to-911 will not be available everywhere. Emergency call centers, called PSAPs (Public Safety Answering Points), are the bodies in charge of implementing text messaging in their areas. These PSAPs are under the jurisdiction of their local states and counties, not the FCC, which governs the carriers. See also, *What You Need to Know About Text-to-911* *available at* www.fcc.gov/text-to-911. At the time of writing there are no known areas in Connecticut that yet support Text-to-911, see https://transition.fcc.gov/pshs/911/Text911PSAP/Text_911_Master_PSAP_Registry.xlsx.

¹⁸ Amanda Lenhart, *Attitudes Towards Cell Phones*, Pew Research, *available at* <http://www.pewinternet.org/Reports/2010/Teens-and-Mobile-Phones/Chapter-3/Overall-assessment-of-the-role-of-cell-phones.aspx>

¹⁹ *Id.*

²⁰ Cisco Visual Networking Index: Global Mobile Data Traffic Forecast Update, 2014-2019, February 3, 2015.

nearly 30 exabytes of traffic.²¹ Indeed Cisco projects that overall mobile data traffic will grow to 24.3 exabytes per month by 2019, nearly a tenfold increase over 2014; this represents a compound annual growth rate (CAGR) of 57% from 2014 to 2019.²²

3. Public Need For A Tower For Wireless Services

Over the last 10 years, wireless service in this area has been provided by the HI HO Facility at 370 North Avenue. Due to the structural deterioration of the existing support structure there, AT&T radiofrequency engineering was unable to add needed LTE capacity and AT&T network operations would not restore service from the site in the event of an outage due to its condition. Accordingly, AT&T must decommission its HI HO Facility and relocate to the approved temporary tower at 220 Evergreen Street which is in the construction phase.

The permanent replacement Facility proposed in this Application will be an integral component of AT&T's network in its FCC licensed areas throughout the state. Over the last thirty years, cellular services have evolved to current 4G LTE standards and significant additional infrastructure built by AT&T to serve the public's current demand for mobile broadband. The technology used by AT&T needs to be upgraded and is currently a critical component of its overall network service in Bridgeport. The proposed replacement Facility in this Application is needed for AT&T and other FCC licensed wireless carriers to continue to provide their services. AT&T would have a significant deficiency in its 3G and 4G LTE wireless communications service in this area of Bridgeport without the proposed replacement tower.

The proposed Facility at 220 Evergreen Street will allow AT&T to continue to provide reliable services to a significant geographic area including portions of State Highway 8, State Highway 127, Route 1, Main Street, Capitol Avenue, Lindley Street, Island Brook Avenue, Noble Avenue Huntington Road and other local roads in Bridgeport. The Facility is needed in conjunction with other existing and future facilities in order for AT&T to replace service in this part of the state. Attachment 1 includes the Council's approval of Petition 1169 for the existing temporary tower and a Radio Frequency Engineering Report with coverage plots depicting the "Coverage Loss without the HI HO Facility" and "Proposed Coverage with the Proposed Permanent Facility" as

²¹ Id.

²² Id.

predicted, together with existing service from adjacent sites. Additional statistics regarding the overall area, population and roadway miles of expanded and reliable service in the community are included in AT&T's data noting this site will serve upwards of 9,000 residents in Bridgeport.

B. Statement of Benefits

The HI HO Facility provides AT&T coverage over a wide area of Bridgeport that includes relatively dense industrial and commercial uses, three family/multi-family residential housing and miles of State and local roads. The benefits associated with the replacement tower Facility are significant and address in large measure the current population's reliance on AT&T service in the area that would be lost in the absence of a permanent replacement site for the decommissioned HI HO Facility. More broadly, wireless carriers have seen the public's demand for traditional cellular telephone services in a mobile setting develop into a requirement for anytime-anywhere wireless connectivity with critical reliance placed on the ability to send and receive, voice, text, image and video at broadband speeds. Provided that network service is available, modern devices allow for interpersonal and internet connectivity, irrespective of whether a user is mobile or stationary, which has led to an increasing percentage of the population to rely on their wireless devices as their primary form of communication for personal, business and emergency needs. The proposed replacement Facility would allow AT&T and other carriers to continue to provide these benefits to the public.

Moreover, AT&T will provide "Enhanced 911" services from the Facility, as required by the Wireless Communications and Public Safety Act of 1999, Pub. L. No. 106-81, 113 Stat. 1286 (codified in relevant part at 47 U.S.C. § 222) ("911 Act"). The purpose of this federal legislation was to promote public safety through the deployment of a seamless, nationwide emergency communications infrastructure that includes wireless communications services. In enacting the 911 Act, Congress recognized that networks that provide for the rapid, efficient deployment of emergency services would enable faster delivery of emergency care with reduced fatalities and severity of injuries. With each year since passage of the 911 Act, additional anecdotal evidence supports the public safety value of improved wireless communications in aiding lost, ill, or injured individuals, such as motorists and hikers. Carriers are able to help 911 public safety dispatchers identify wireless callers' geographical locations within several hundred feet, a significant benefit to the community associated with any new wireless site.

In 2009, Connecticut became the first state in the nation to establish a statewide emergency notification system. The CT Alert ENS system utilizes the state Enhanced 911 services database to allow the Connecticut Department of Homeland Security and Connecticut State Police to provide targeted alerts to the public and local emergency response personnel alike during life-threatening emergencies, including potential terrorist attacks, Amber Alerts and natural disasters. Pursuant to the Warning, Alert and Response Network Act, Pub. L. No. 109-437, 120 Stat. 1936 (2006) (codified at 47 U.S.C. § 332(d)(1) (WARN)), the FCC has established the Personal Localized Alerting Network (PLAN). PLAN requires wireless service providers to issue text message alerts from the President of the United States, the U.S. Department of Homeland Security, the Federal Emergency Management Agency and the National Weather Service using their networks that include facilities such as the one proposed in this Application. Telecommunications facilities like the one proposed in this Application enable the public to receive e-mails and text messages from the CT Alert ENS system on their mobile devices. The ability of the public to receive targeted alerts based on their geographic location at any given time represents the next evolution in public safety, which will adapt to unanticipated conditions to save lives.

C. Technological Alternatives

The FCC licenses granted to wireless carriers operating in Connecticut authorize them to provide wireless services in this area of the state through deployment of a network of wireless transmitting sites. Existing tower sites or non-tower tall structures in the this area of Bridgeport are either not tall enough to overcome terrain blocking or not legally available to meet the technical requirements of AT&T in providing reliable 4G LTE services. In addition, repeaters, microcell transmitters, distributed antenna systems and other types of transmitting technologies are not a practicable or feasible means to replacing the services that were provided by the HI HO Facility. These technologies are better suited for specifically defined areas where coverage and capacity are needed. Continuing to provide service in this area of Bridgeport requires a replacement tower site that can provide service over a footprint that spans many square miles in this part of Connecticut. The Applicants submit that there are no equally effective, feasible technological alternatives to a new tower for providing reliable personal wireless services in this area of Bridgeport.

IV. **Site Selection and Tower Sharing**

A. Site Selection

In this case, the site search was focused on replacing an existing operational cell site which must be decommissioned. The relocation site search was conducted by Blue Sky and AT&T based on two principal factors: 1) the need to replicate as much coverage as possible from the HI HO Facility to be decommissioned; 2) staying in this predominantly industrial and commercial area of Bridgeport. AT&T has operated a wireless facility at the HI HO Facility for approximately 10 years, providing reliable wireless services in this area of Bridgeport. Based on the location of the original HI HO Facility, terrain and coverage objectives, the replacement tower search area focused on the industrially zoned areas of Bridgeport in close proximity. These search areas are shown generally on the site search maps in Attachment 2.

The site search for a tower includes work undertaken by Blue Sky and AT&T. Blue Sky and AT&T have investigated and evaluated (16) potential sites. As provided in Attachment 2, of all the sites evaluated, the 220 Evergreen Street site location was deemed by Blue Sky and AT&T to best meet technical service requirements, be legally available for a tower, and otherwise minimize environmental effects to the extent practicable. Other locations evaluated, were either legally unavailable for tower siting, technically inadequate to satisfy coverage requirements in this part of the state or determined by the Applicants to have no better overall environmental effects than the Facility as proposed.

B. Tower Sharing

The proposed Facility is designed to accommodate the antennas and equipment of AT&T and up to two additional wireless carriers.

V. **Facility Design**

The proposed tower location is on an approximately 1 acre vacant lot with an address of 220 Evergreen Street ("Parcel"). The Parcel is owned by Chapin & Bangs Company, which owns an adjoining parcel and is used as part of its steel fabrication services. There is a temporary tower in the construction phase, as approved in Petition 1169.

The replacement tower is proposed as a new self-supporting monopole 135' in height which is slightly taller than the existing temporary tower on the Parcel. AT&T would install up to twelve (12) panel antennas and related equipment at a centerline height of 130' above grade level (AGL) on the replacement tower. The tower is designed for future shared use of the structure by two additional FCC licensed wireless carriers.

The existing tower compound on the Parcel, as approved in Petition 1169, consists of a 3,617.5 s.f. fenced area to accommodate AT&T's 12' x 20' equipment shelter and provides for future shared use of the facility by other carriers who we anticipate will also relocate here from the HI HO Facility. The existing tower compound would remain the same, enclosed by an 8' high chain link fence, with a fixed emergency back-up power generator on a concrete pad within the compound.

Vehicle access to the facility exists over a 15' wide access easement with a gate on Evergreen Street. Utility connections are routed overhead from an existing utility pole located along Evergreen Street. The facility will continue to be unmanned with no sanitary or water services and generates on average 1 vehicle trip per month by each wireless carrier consisting of a service technician in a light duty van or truck.

Attachments 3 and 4 contain the specifications for the proposed Facility, including an abutters map, existing conditions survey, site plan, compound plan and tower elevation, sedimentation and erosion control details and other relevant details of the proposed Facility.

Included as Attachments 5 through 10 are various documents developed as part of the Applicants' due diligence including a Visibility Analysis (Attachment 8). Some of the relevant information identifies that:

- The total area of disturbance is low and no mature trees will need to be removed with the replacement tower site location in the same temporary tower compound.
- The proposed Facility will have little to no impact on water flow or water quality and no direct impacts to any wetlands or watercourses are anticipated. There are no wetlands in the vicinity of the proposed Facility.

The location of the proposed Facility is just outside of the 100 year flood zone located on the lot.

- Views of the top of the tower are primarily limited to areas within the context of existing manufacturing, warehousing and commercial buildings which dominate this section of the City.

At grade conditions do not present significant changes in environmental effects as compared with current development and use of the site as a temporary tower site and materials storage for a steel fabrication company.

VI. Environmental Effects

Pursuant to C.G.S. §16-50p (a) (3) (B), the Siting Council is required to find and determine as part of the Application process any probable impact of the Facility on the natural environment, ecological balance, public health and safety, scenic, historic and recreational values, forest and parks, air and water purity, and fish and wildlife. As demonstrated in this Application, the Facility will be constructed in compliance with applicable regulations and guidelines, and best practices will be followed to ensure that construction of the proposed Facility will minimize any significant adverse environmental impact to the extent practicable.

A. Visual Assessment

The principal environmental effects associated with the Facility are visibility generally between local buildings and trees within a ¼ mile of the project site. Included in Attachment 8 is a Visibility Analysis which contains a view shed map and photo simulations of off-site views where the replacement tower would be visible. Potential visibility was assessed within using a computer-based, predictive view shed model that was field verified. Visibility beyond a ¼ mile will be limited to brief glimpses between and/or above intervening structures. When visible, the project will be seen within the context of the existing industrial landscape. Existing manufacturing, warehousing, and commercial buildings dominate all views in this section of the City. Urban conditions including roadways, heavy traffic, overhead utility infrastructure, street lighting, road and commercial signage and other elements of the city landscape are common visual features in this part of the City. The proposed tower is visually consistent and does not create an adverse visual impact. No schools or licensed day care centers are

located within 250' of the site. Weather permitting, the Applicants will raise a balloon with a diameter of at least three (3) feet at the proposed site on the day of the Siting Council's first hearing session on this Application, or at a time otherwise specified by the Siting Council.

B. CT DEEP, SHPO and Other State and Federal Agency Comments

Various consultations and analyses for potential environmental impacts are summarized and included in Attachments 5-10. Representatives of the Applicants submitted reports and requests for review from federal and state entities including the Connecticut Department of Energy and Environmental Protection (CTDEEP) and the Connecticut State Historic Preservation Officer (SHPO). CTDEEP indicated that they do not anticipate negative impacts to any listed species resulting from the proposed activity at the site. See CTDEEP correspondence in Attachment 9. SHPO issued a no adverse effect determination on any historic resources eligible for or listed on the National Register of Historic Places. See SHPO correspondence in Attachment 10. As required by statute, this Application is being served on state and local agencies, which may choose to comment on the Application prior to the close of the Siting Council's public hearing.

C. Power Density

In August of 1996, the FCC adopted a standard for Maximum Permissible Exposure (MPE) for RF emissions from telecommunications facilities like the one proposed in this Application. The tower site will fully comply with federal and state MPE standards. The cumulative worst-case calculation of power density from AT&T's operations in combination with the public safety antennas would be 3.98% of the MPE standard. A power density report is included in Attachment 7.

D. Wetlands, Drainage & Other Environmental Factors

The proposed Facility would be unmanned, requiring monthly maintenance visits approximately one hour long. Carriers that maintain antennas and equipment at an approved Facility monitor their facility 24 hours a day, seven days a week from a remote location. The proposed Facility does not require a water supply or wastewater utilities. No outdoor storage or solid waste receptacles will be needed. Furthermore,

the proposed Facility will neither create nor emit any smoke, gas, dust, other air contaminants, noise, odors, nor vibrations other than those created by any heating and ventilation equipment or generators installed by the carriers. During power outages and weekly equipment cycling an emergency generator would be utilized with air emissions in compliance with State of Connecticut requirements.

The tower site is located on an undeveloped Parcel of property that is vacant, but used as part of Chapin & Bangs materials storage. The lease area and proposed areas of disturbance are located along the lot frontage on Evergreen Street. The location of the permanent tower site is outside of the 100 year flood zone located on the lot. There are no on-site wetlands, therefore, no direct impact to any wetlands or watercourses are anticipated as a result of the tower site construction. A wetland inventory map and a flood map are included in Attachment 6. Overall, the construction and operation of the proposed Facility will not have an impact on wetlands or water quality and drainage will be appropriately managed on-site.

E. National Environmental Policy Act Review

The Applicants have evaluated the project in accordance with the FCC's regulations implementing the National Environmental Policy Act of 1969, Pub. L. No. 91-190, 83 Stat. 852(codified in relevant part at 42 U.S.C. § 4321 et seq.) ("NEPA"). The parcel was not identified as a wilderness area, wildlife preserve, National Park, National Forest, National Parkway, Scenic River, State Forest, State Designated Scenic River or State Gameland. Furthermore, according to the site survey and field investigations, no federally regulated wetlands or watercourses will be impacted by the proposed Facility.

VII. Consistency with the City of Bridgeport's Land Use Regulations

Pursuant to the Siting Council's Application Guide, a narrative summary of the consistency of the project with the City's zoning and wetland regulations and plan of conservation and development is included in this section. A description of the zoning classification of the site and the planned and existing uses of the proposed site location are also detailed in this section.

A. Bridgeport's Plan of Conservation and Development

The Bridgeport Plan of Conservation & Development ("POCD"), effective March 2008 is included in the Bulk Filing. POCD Section 12 addresses wireless service and infrastructure and notes one of its four main goals is to encourage connections throughout Bridgeport to WiFi, wireless and other leading technological systems.

B. Bridgeport's Zoning Regulations and Zoning Classification

The City of Bridgeport Zoning Regulations set forth general requirements for non tower structure telecommunications facilities under Section 12.4, noting that applications for the installation of a telecommunications tower be filed with the State of Connecticut Siting Council. There are no requirements for new towers provided in the City's Zoning Regulations. The proposed tower Facility site is classified in the I-L (Industrial Light) zoning district where communication facilities and similar uses are listed as principally permitted. The definition of communication facilities in the City's regulations includes telecommunications towers.

C. Planned and Existing Land Uses

The Facility is proposed on a 1 acre parcel of land owned by Chapin & Bangs Company in an industrial zone. Adjacent lots are developed commercial uses, three family/multi-family residences and the City's Animal Control facility in this part of Bridgeport. Copies of the City of Bridgeport Zoning Code, Inland Wetlands Regulations, Zoning Map and Plan of Conservation and Development are included in the Bulk Filing.

D. Bridgeport's Inland Wetlands and Watercourses Regulations

The Bridgeport Inland Wetlands Regulations ("Local Wetlands Regulations") regulate certain activities conducted in "Wetlands" and "Watercourses" as defined therein. The City establishes upland review areas for wetlands and watercourses of 100' for regulated activities. As set forth on the Wetlands Map in Attachment 6 and Drawings in Attachment 4, there are no wetlands or watercourses in the vicinity of the proposed facility. The lease area and proposed areas of disturbance are located within an otherwise cleared gravel area of the parcel. As shown on the FEMA flood map in Attachment 6, the Facility is outside of the 100 year flood zone located on the lot.

No impact to any wetlands or watercourses are anticipated as a result of the tower site construction.

Additionally, the overall impervious surface associated with the Facility is low in comparison to other development and storm water will be managed with Best Management Practices to be implemented during construction in accordance with the Connecticut Soil Erosion Control Guidelines, as established by the Connecticut Council of Soil and Water Conservation and DEEP (2002). Soil erosion control measures and other best management practices will be established and maintained throughout the construction of the proposed Facility. The Applicants do not anticipate an adverse impact on any wetland or water resources as part of construction or longer term operation of the Facility and respectfully submit any indirect impacts would be less than those associated with current uses of the Parcel.

VIII. Consultation with City Officials

C.G.S. § 16-50/ generally requires an applicant to consult with the municipality in which a new tower facility may be located for a period of ninety days prior to filing any application with the Siting Council. With respect to the Facility as proposed in this Application, a Technical Report was filed with the City of Bridgeport on August 28, 2015. After discussions with City staff in Bridgeport, the Applicants were advised that the City believes the proposed site is appropriate for the tower to replace the HI HO location. Attachment 11 contains correspondence from the City of Bridgeport in this regard.

IX. Estimated Cost and Schedule

A. Overall Estimated Cost

The total estimated cost of construction for the proposed Facility is represented in the table below:

Requisite Component:	Cost (USD)
Tower & Foundation	65,000
Site Development	\$0 (done during

	temporary tower phase)
Utility Installation	10,000
Subtotal Blue Sky Towers	75,000
Antennas and Equipment	250,000
Subtotal AT&T Cost	250,000
Total Estimated Costs	390,000

B. Overall Scheduling

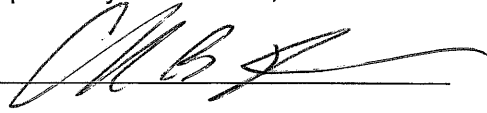
Site preparation work would commence following Siting Council approval of any Development and Management (“D&M”) Plan the Siting Council may require and the issuance of a Building Permit by the City of Bridgeport. The site preparation phase is expected to be completed in 2 weeks given most of the work will have been done already for the temporary tower. Installation of the monopole, antennas and associated equipment is expected to take an additional 2 weeks. The duration of the total construction schedule is approximately 4 weeks. Facility integration and system testing for carrier equipment is expected to require an additional 2 weeks after construction is completed.

X. **Conclusion**

This Application and the accompanying materials and documentation clearly demonstrate that a public need for a new replacement tower in Bridgeport exists to continue to provide reliable wireless services to the public. The Applicants respectfully submit that the public need for the proposed tower Facility outweighs any potential environmental effects from development of the tower which are principally limited to visibility. Other environmental effects have been minimized by the Applicants’ selection of a tower site location on a property within a dense industrial and commercial area of the City. The Applicants respectfully request that the Siting Council grant a Certificate of Environmental Compatibility and Public Need to Blue Sky and AT&T for a new replacement wireless telecommunications Facility in Bridgeport.

Respectfully Submitted,

By:



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Attorneys for the Applicants

ATTACHMENT 1

ATTACHMENT 1

STATEMENT OF PUBLIC NEED

The proposed tower facility at 220 Evergreen Street in Bridgeport is needed in conjunction with other existing and proposed facilities in order for AT&T, and potentially other wireless carriers, to replace service in this part of the state currently provided by an existing facility at 370 North Avenue ("HI HO Facility"). The AT&T HI HO facility set to be decommissioned was the subject of review in Siting Council Petition 1169 in which a temporary tower was approved for 220 Evergreen Street. A copy of the Siting Council's reports and approval in Petition 1169 are attached and which provide further information on the public need for a tower facility to replace the HI HO facility. Also attached are AT&T radio frequency coverage plots and statistics that note the "Coverage Loss without the HI HO Facility" and "Proposed Coverage with the Proposed Permanent Facility" as predicted, together with existing service from adjacent sites. Additional statistics regarding the overall area, population and roadway miles of expanded and reliable service in the community are included in AT&T's data noting this site will serve upwards of 9,000 residents in Bridgeport.



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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CERTIFIED MAIL RETURN RECEIPT REQUESTED

August 10, 2015

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, NY 10601

RE: **PETITION NO. 1169** – Blue Sky Towers, LLC and New Cingular Wireless PCS, LLC petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed installation of a temporary telecommunications facility to be located at 220 Evergreen Street, Bridgeport, Connecticut.

Dear Attorney Fisher:

At a public meeting held on August 6, 2015, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k, would not require a Certificate of Environmental Compatibility and Public Need with the following conditions:

- Unless otherwise approved by the Council, if the temporary facility authorized herein is not fully constructed within eighteen months from the date of the mailing of the Council's decision, this decision shall be void, and the facility owner/operator shall dismantle the facility and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The facility owner/operator shall provide written notice to the Executive Director of any schedule changes as soon as is practicable;
- Any request for extension of the time period to fully construct the facility shall be filed with the Council not later than 60 days prior to the expiration date of this decision and shall be served on the City of Bridgeport;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;

- If the facility ceases to provide wireless services for a period of one year the Petitioner shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council within 90 days from the one year period of cessation of service. The Petitioner may submit a written request to the Council for an extension of the 90 day period not later than 60 days prior to the expiration of the 90 day period;
- This Declaratory Ruling may be transferred or partially transferred, provided both the facility owner/operator/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. The Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer. Both the facility owner/operator/transferor and the transferee shall provide the Council with a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility; and
- The equipment shelter shall be elevated 2 feet above the 100-year flood evaluation.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition dated July 2, 2015, and supplemental information dated July 23, 2015.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,



Robert Stein
Chairman

RS/MP/lm

Enclosure: Staff Report dated August 6, 2015

- c: The Honorable Bill Finch, Mayor, City of Bridgeport
Parag Agrawal, Planning Director, City of Bridgeport
David Kooris, Director, Office of Planning and Economic Development, City of Bridgeport
Chapin & Bangs Company



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Petition No. 1169

Blue Sky Towers, LLC and New Cingular Wireless PCS, LLC

220 Evergreen Street, Bridgeport

Temporary Tower

Staff Report

August 6, 2015

On July 6, 2015, the Connecticut Siting Council (Council) received a petition (Petition) from Blue Sky Towers, LLC (BST) and New Cingular Wireless PCS, LLC (AT&T) (collectively, the Petitioner) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed installation of a temporary wireless telecommunications facility at 220 Evergreen Street, Bridgeport. This Petition was field reviewed by Council Chairman Robin Stein and Council staff members Michael Perrone and Cyron Holzschuh on July 27, 2015.

Currently, AT&T maintains a wireless facility on top of the existing HI HO concrete and steel coal storage facility (HI HO Structure) at 370 North Avenue in Bridgeport. (Sprint and Verizon Wireless also are co-located on this facility.) However, because of the age of the structure (circa 1930s) and its deterioration due to some coal left inside the structure, an engineering firm has deemed the structure a “serious hazard to technicians, tower hands or anyone else working on or around the structure.” Thus, AT&T is unable to perform any maintenance or repairs to the structure. Its radio frequency (RF) capability has declined significantly as only one out of three sectors currently fully operational. The RF issues involving the other two sectors cannot be resolved because technicians are not allowed on the structure for safety reasons. The engineering firm recommends that the entire structure be demolished and all antennas removed from the structure. (However, the HI HO Structure is not Council-approved. Thus, the future of the structure is an issue for the property owner and the City of Bridgeport.)

Accordingly, AT&T requires an alternative site to compensate for the loss of its HI HO facility site. AT&T considered a temporary cell-on-wheels facility (COW) on the subject property, but there was insufficient space available. AT&T performed a site search of existing structures within a four-mile radius, but was unable to locate an existing structure that would provide the required coverage and have an interested land owner. AT&T then investigated raw land sites and found a site suitable from a radio frequency perspective with a willing land owner at the Chapin & Bangs Company at 220 Evergreen Street, Bridgeport. The property is a 1-acre vacant parcel adjacent to a parcel used as part of Chapin & Bangs steel fabrication services. This site is located approximately 0.12 miles southeast of the existing HI HO Structure. (The City of Bridgeport showed some initial interest in locating the temporary facility at the animal control facility at 236 Evergreen Street, but the Petitioner was unable to receive confirmation from the City.) Thus, the Petitioner seeks to go forward with a temporary facility at 220 Evergreen Street.

Specifically, the Petitioner seeks to install a 120-foot temporary monopole on top of a ballast base (that acts as a temporary foundation) in the northwestern portion of the subject property. With the 8-foot tall ballast base, the total height of the tower would reach 128-feet above ground level. Unlike a COW, which generally only serves one carrier, this temporary monopole is capable of supporting up to three carriers including

AT&T. (The Petitioner is currently in contact with Sprint and Verizon Wireless regarding the possibility of their co-locations in the future.)

AT&T would install six panel antennas on a platform at the 124-foot level of the tower. The tops of the antennas would not extend above the top of the tower. The Petitioner would set a (temporary) 12-foot by 20-foot equipment shelter adjacent to the tower. A battery backup power system that allows for up to eight hours of run time would be included. The shelter would be placed on top of 8-inch by 8-inch timber sleepers to act as a temporary base and allow easier setup and removal. The subject property is already secured with a chain link fence. The Petitioner would install a 10-foot access gate on the Evergreen Street side of the fence to facilitate access to the tower. Utilities would be run overhead from an existing utility pole on Evergreen Street.

A Professional Engineer duly licensed in the State of Connecticut has certified that the proposed ballasted monopole would be structurally adequate to support the proposed AT&T loading (and loading of two other carriers). The maximum worst-case power density would be 14.3 percent of the applicable limit. The project is expected to meet applicable noise standards at the property boundaries.

The Lakeview Village Historic District is located one-half mile east of the proposed site. The project is not expected to impact this historic resource. No wetlands are present at the site. One existing tree was already removed, but no other trees are located within the project footprint. The location of the tower on the subject property would place it in the 500-year flood zone, but would avoid the 100-year flood zone. Council staff believes that this is a prudent approach that would significantly reduce the risk of flood-related damage to equipment.

The subject property is located within the City of Bridgeport's I-L Industrial zone. The site is used for steel fabrication services. Adjacent lots are developed commercial uses, multi-family residential rental units, and the City's animal control facility. While there would be year-round visibility of the upper sections of the tower, most views would be limited to a 1/4-mile radius. In addition, these views would be in the context of existing industrial landscape including manufacturing, warehousing, and other commercial buildings and would be temporary. The nearest school, Maplewood Annex Elementary School, is 0.43 miles away. No views of the tower from any schools are expected.

Notice was provided to the City of Bridgeport, the subject property owner, and abutting property owners on or about June 30, 2015. The Petitioner received some inquiries from abutters, but no objections to the project.

The proposed tower would remain in place for about 1.5 years until a permanent relocation site is leased, permitted, constructed, and operational. AT&T is consulting with the City of Bridgeport relative to permanent site location alternatives (including the temporary tower site) that may be the subject of a future application to the Council.

The Petitioner contends that this proposed project would not have a substantial adverse environmental impact. If approved, staff suggests including the following conditions:

- Unless otherwise approved by the Council, if the temporary facility authorized herein is not fully constructed within eighteen months from the date of the mailing of the Council's decision, this decision shall be void, and the facility owner/operator shall dismantle the facility and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The facility owner/operator shall provide written notice to the Executive Director of any schedule changes as soon as is practicable;
- Any request for extension of the time period to fully construct the facility shall be filed with the Council not later than 60 days prior to the expiration date of this decision and shall be served on the City of Bridgeport;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
- If the facility ceases to provide wireless services for a period of one year the Petitioner shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council within 90 days from the one year period of cessation of service. The Petitioner may submit a written request to the Council for an extension of the 90 day period not later than 60 days prior to the expiration of the 90 day period; and
- This Declaratory Ruling may be transferred or partially transferred, provided both the facility owner/operator/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. The Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer. Both the facility owner/operator/transferor and the transferee shall provide the Council with a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.

Site Location



Photo-simulation as viewed from south of the subject property



The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Simulated View
Viewpoint 2 - Commercial Area South of Project Property

Radio Frequency Analysis Report

CT5100
220 Evergreen Bridgeport, CT



at&t

September 28, 2015



C Squared Systems, LLC
65 Dartmouth Drive, A3
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Support@csquaredsystems.com

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1. Overview

C Squared Systems was retained by New Cingular Wireless PCS, LLC (“AT&T”) to investigate the extent of coverage loss resulting from the scheduled decommissioning of the 370 North Avenue site (CT5092), herein referred to as the “Decom” site and the extent of coverage that could be potentially be recovered by deploying the proposed wireless communications facility at 220 Evergreen Street in Bridgeport, referred to herein as the Proposed Site (designated on the attached plots as CT5100). The Proposed Site will have an overall height of 135 feet AGL.

AT&T is licensed by the FCC to provide wireless communications services throughout the State of Connecticut including the Town of Bridgeport where the proposed facility would be located.

This report addresses AT&T’s need for the Proposed wireless facility and confirms that there are no other suitable existing structures capable of providing the coverage lost with the decommissioning of the 370 North Avenue site. The coverage analysis completed by C Squared Systems confirms that one; decommissioning AT&T’s existing site CT5092 will create a significant gap and loss of reliable AT&T service in Bridgeport and that two; the proposed site will provide AT&T with a coverage solution throughout a substantial portion of the subject area impacted by the decommissioning of CT5092.

Included as attachments to this report are coverage maps detailing the existing 3G UMTS network and predicted 3G coverage from the proposed facility, pertinent site information, terrain and network layout maps, along with the 4G LTE deployment coverage.

2. Technology Advances & Design Evolution

AT&T provides digital voice and data services using 3rd Generation (3G) UMTS technology in the 800 MHz and 1900 MHz frequency band, and is in the midst of deploying advanced 4th Generation (4G) services over LTE technology in the 700 MHz and 1900 MHz frequency bands as allocated by the FCC. As part of their network expansion and ongoing technology advancements in Connecticut and elsewhere in the Country, the 4G LTE network rollout will build on the existing 3G data services that utilize UMTS technology. These data networks are used by mobile devices for fast web browsing, media streaming, and other applications that require broadband connections. The mobile devices that benefit from these advanced data networks are not limited to basic handheld phones, but also include devices such as smartphones, PDA’s, tablets, and laptop air-cards. With the evolving rollout of 4G LTE services and devices, AT&T customers will have even faster connections to people, information, and entertainment.

It is important to note that with AT&T’s migration from 3G to 4G services come changes in the base station infrastructure and resultant changes in the operating thresholds required by the LTE network. In the past, AT&T has presented receive signal thresholds of -74 dBm for their in-building coverage threshold and -82 dBm for their in-vehicle coverage threshold. Those thresholds were based on network requirements to support 2G/3G data speeds and past usage demand. Today, customers expect low latency and faster data speeds as evidenced by increasing data usage trends and customer demand.

AT&T’s 4G LTE technology is designed to thresholds of -83 dBm and -93 dBm for their 700 MHz LTE and -86 dBm and -96 dBm for their 1900 MHz LTE.¹ The stronger thresholds (-83 dBm and -86 dBm) yield greater throughputs

¹ The threshold range differences between the 700 MHz and 1900 MHz frequency bands directly correlates to the type branch diversity receivers deployed in AT&T’s receiver design.

and improved customer experience. The -93 dBm and -96 dBm thresholds are the minimum acceptable levels required to meet customer expectations for 4G service.

3. Coverage Objective

The Decommissioning of the 370 North Avenue Site would significantly increase the coverage deficiency in the existing AT&T wireless communications network in the town of Bridgeport, CT. This coverage deficiency includes but is not limited to the following:

- State Highway 8, State Highway 127, Route 1;
- Main Street, Capitol Avenue, Lindley Street;
- Island Brook Avenue, Noble Avenue, Huntington Road;
- The commercial and residential neighborhoods in the vicinity of the roads areas described above.

The area of lost coverage described above is referred to herein as the "targeted area".

A substantial hardship will result with the decommissioning of AT&T's site CT5092, removing coverage and service to residents and commuters in Bridgeport. The added network traffic load for the serving sectors of the surrounding AT&T sites covering portions of the subject area will place a substantial capacity strain on the network, resulting in further degradation of network quality. The purpose of the proposed CT5100 site is to provide an interim, remedial solution for the subject area.

4. AT&T 3G Network Coverage Objective

While AT&T holds licenses in the 700 MHz, 800 MHz (Cellular), 1900 MHz (PCS) and 2300 MHz (WCS) bands, the 3G network analysis of this report focuses on the 1900 MHz UMTS coverage since it is this layer that is most impacted by the decommissioning of CT5092.

In this instance, the extent of the coverage gap to be filled is defined by the coverage lost with the decommissioning of AT&T's site. This affected area is represented in Attachment 2: "1900 MHz UMTS Coverage without CT5092 Site" (CT5092 Decommissioned). As shown by the coverage statistics presented in Table 1 below, the proposed facility (CT5100) will provide substantial fill-in coverage for much of the affected area.

	Coverage Lost from CT5092 Decommissioning		Coverage Recovered from CT5100 Proposed Site	
	(\geq -74 dBm)		(\geq -74 dBm)	
Population:²	(\geq -74 dBm)	4,172	(\geq -74 dBm)	9,847
	(\geq -82 dBm)	6,741	(\geq -82 dBm)	9,349
Area (mi²):	(\geq -74 dBm)	0.65	(\geq -74 dBm)	0.98
	(\geq -82 dBm)	0.72	(\geq -82 dBm)	0.87
Roadway (mi):	Main:	3.90	Main:	4.94
	Secondary:	8.64	Secondary:	11.53
	Total:	12.54	Total:	16.47

Table 1: Estimated Coverage Lost & Recovered Statistics

² Population figures are based upon 2010 US Census Block Data

Included with this report are Attachments 1-3, which are explained below to help describe AT&T's 3G network coverage in and around Bridgeport, and the immediate need for the proposed facility.

- Attachment 1: *“Existing 1900 MHz UMTS Coverage” (Current AT&T Network)* depicts 1900 MHz UMTS coverage from the existing sites.
- Attachment 2: *“1900 MHz UMTS Coverage without CT5092 Site”* shows how decommissioning this site would create a significant coverage gap for this area of Bridgeport. Table 1 provides the details of this lost coverage.
- Attachment 3: *“Composite 1900 MHz UMTS Coverage with Proposed Site”* shows the composite coverage from the proposed site when integrated into the network. Table 1 provides the details of this replacement coverage.

Due to terrain characteristics and the distance between the targeted coverage area and the existing sites, AT&T's options to provide a remedial solution in this area are quite limited (maps of the terrain in this area and the distance to neighboring AT&T sites from the proposed site are included as Attachments 4 & 5, respectively.)

AT&T's network requires a deployment of antennas throughout the area to be covered. These antennas are connected to receivers and transmitters that operate in a limited geographic area known as a “cell.” AT&T's wireless network, including their wireless handsets and devices, operate by transmitting and receiving low power radio frequency signals to and from these cell sites. The signals are transferred to and from the landline telephone network and routed to their destinations by sophisticated electronic equipment. The size of the area served by each cell site is dependent on several factors, including the number of antennas used, the height at which the antennas are deployed, the topography of the land, vegetative cover and natural or man-made obstructions in the area. As customers move throughout the service area, the transmission from the portable devices is automatically transferred to the AT&T facility with the best connection to the device, without interruption in service provided that there is overlapping coverage from the cells.

5. AT&T 4G LTE Network Coverage Objective

As noted in section 2, AT&T provides digital voice and data services using 3rd Generation (3G) UMTS technology in the 800 MHz and 1900 MHz frequency band, and is in the midst of deploying advanced 4th Generation (4G) services over LTE technology in the 700 MHz and 1900 MHz frequency bands as allocated by the FCC. As part of their network expansion and ongoing technology advancements in Connecticut and elsewhere in the Country, the 4G LTE network rollout will be built on the existing 3G data services that utilize UMTS technology.

The focus of the following section is AT&T's 4G LTE network in the 700 MHz and 1900 MHz frequency bands.

Table 2 below lists the coverage statistics compiled for the AT&T’s 700 MHz and 1900 MHz 4G LTE network with the deployment of the Proposed Site.

	Incremental Coverage from Proposed Site (700 MHz)		Incremental Coverage from Proposed Site (1900 MHz)	
Population: ³	(≥ -83 dBm)	8,013	(≥ -86 dBm)	9,339
	(≥ -93 dBm)	33	(≥ -96 dBm)	4,542
Area (mi²):	(≥ -83 dBm)	0.95	(≥ -86 dBm)	0.98
	(≥ -93 dBm)	0.05	(≥ -96 dBm)	0.55
Roadway (mi):	Main:	0.13	Main:	3.21
	Secondary:	0.38	Secondary:	5.94
	Total:	0.51	Total:	9.15

Table 2: Coverage Statistics

Also included in this report are Attachments 4 through 11, which are explained below to help describe AT&T’s 4G network deployment in and around Bridgeport, and the need for the proposed facility.

- Attachment 4: *3D Terrain Map* details the terrain features around the area of deficient service being targeted by the Proposed site in Bridgeport. These terrain features play a key role in determining site designs and dictating the unique coverage achieved from a given location. This map is included to provide a visual representation of the ridges and valleys that must be considered when siting a wireless facility. The darker green and blue shades correspond to lower elevations, whereas the yellow and red shades indicate higher elevations.
- Attachment 5: *Map of Distance to Neighbor Sites – Bridgeport* provides an overview of AT&T’s network of sites in the area, with distances shown from the Proposed Bridgeport site to the existing sites in the surrounding area.
- Attachment 6: *Neighbor Site Data and Distance to Proposed Site* provides site specific information of existing neighboring sites used to perform the coverage analyses provided in Attachments 1 through 10.
- Attachment 7: *“1900 MHz LTE Coverage without CT5092 Site”* shows how decommissioning this site would create a significant coverage gap for this area of Bridgeport
- Attachment 8: *“Composite 1900 MHz LTE Coverage with Proposed Site”* shows the composite coverage from the proposed site when integrated into the network.
- Attachment 9: *“700 MHz LTE Coverage without CT5092 Site”* shows how decommissioning this site would create a significant coverage gap for this area of Bridgeport

³ Population figures are based upon 2010 US Census Block Data

- Attachment 10: “*Composite 700 MHz LTE Coverage with Proposed Site*” shows the composite coverage from the proposed site when integrated into the network
- Attachment 11: *Connecticut DOT Average Annual Daily Traffic Data – Bridgeport* shows the available vehicular traffic volume data for the subject area from the Connecticut Department of Transportation. This data shows as many as 16,900 vehicles per day passing through Lindley Street near the intersection with Capitol Avenue and as many as 13,800 vehicles per day passing through North Avenue near the intersection with Main Street.

6. Conclusion

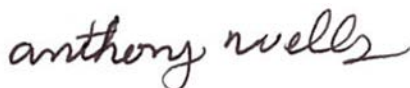
AT&T has identified an area of deficient coverage affecting a significant portion of Bridgeport CT, including key traffic corridors through the residential areas of the Town. The proposed Bridgeport Proposed facility will bring the needed fill-in coverage to significant portions of State Highway 8, State Highway 127, Route 1, Main Street, Capitol Ave, Lindley Street, Island Brook Avenue, Huntington Road, Nobile Avenue and the residential neighborhoods in the vicinity of these roads, all of which will be impacted by the decommissioning of AT&T’s existing site CT5092.

No existing structures were identified and available that would be able to satisfy the coverage requirements needed for this area.

As discussed in this report and depicted in the attached plots, the proposed interim AT&T site will provide a substantial portion of the coverage being lost to the “target Area” while maintaining effective connectivity to the rest of AT&T’s existing network and, facilitate the transparent migration from its 3G to 4G network.

7. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate.

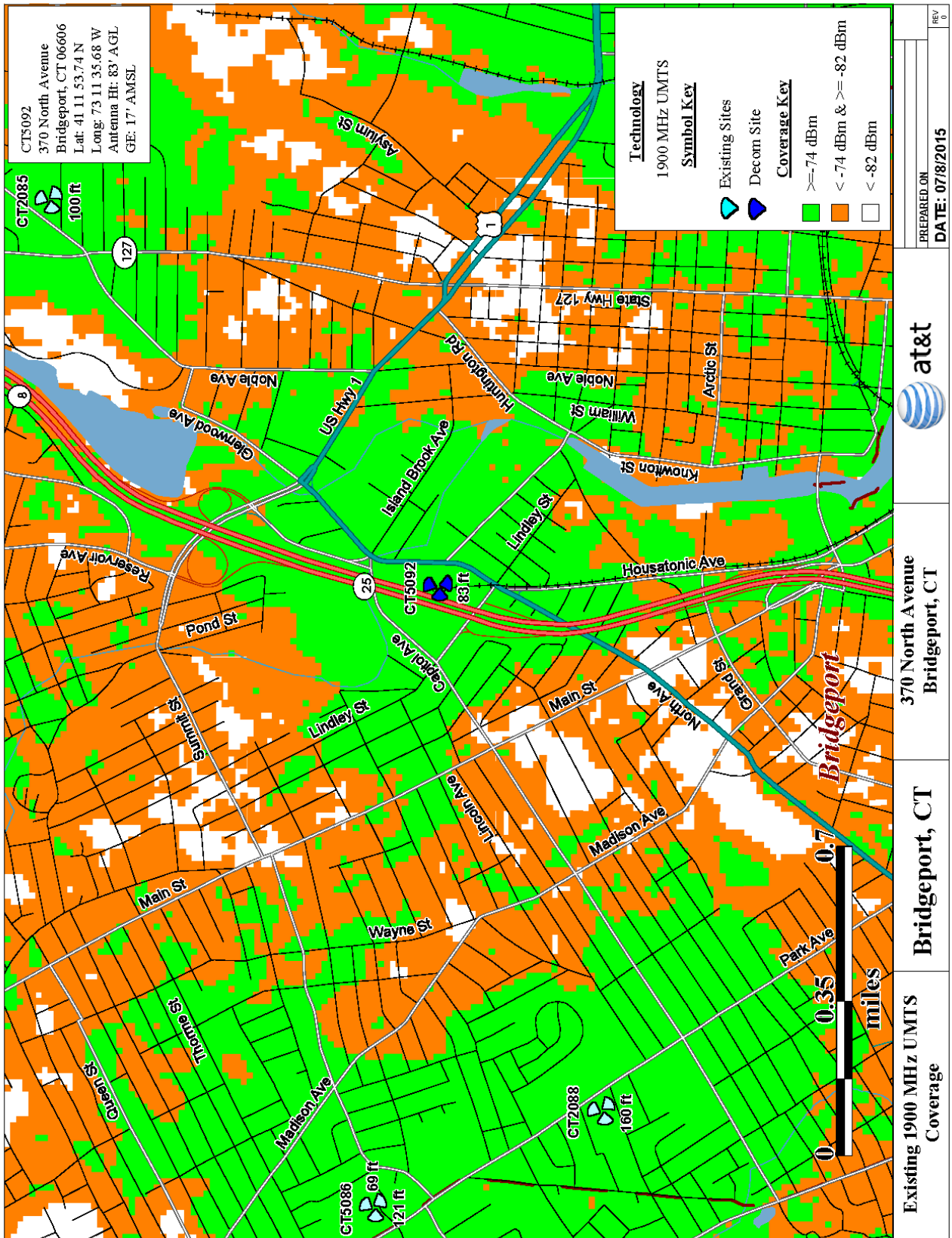


Anthony Wells
C Squared Systems, LLC

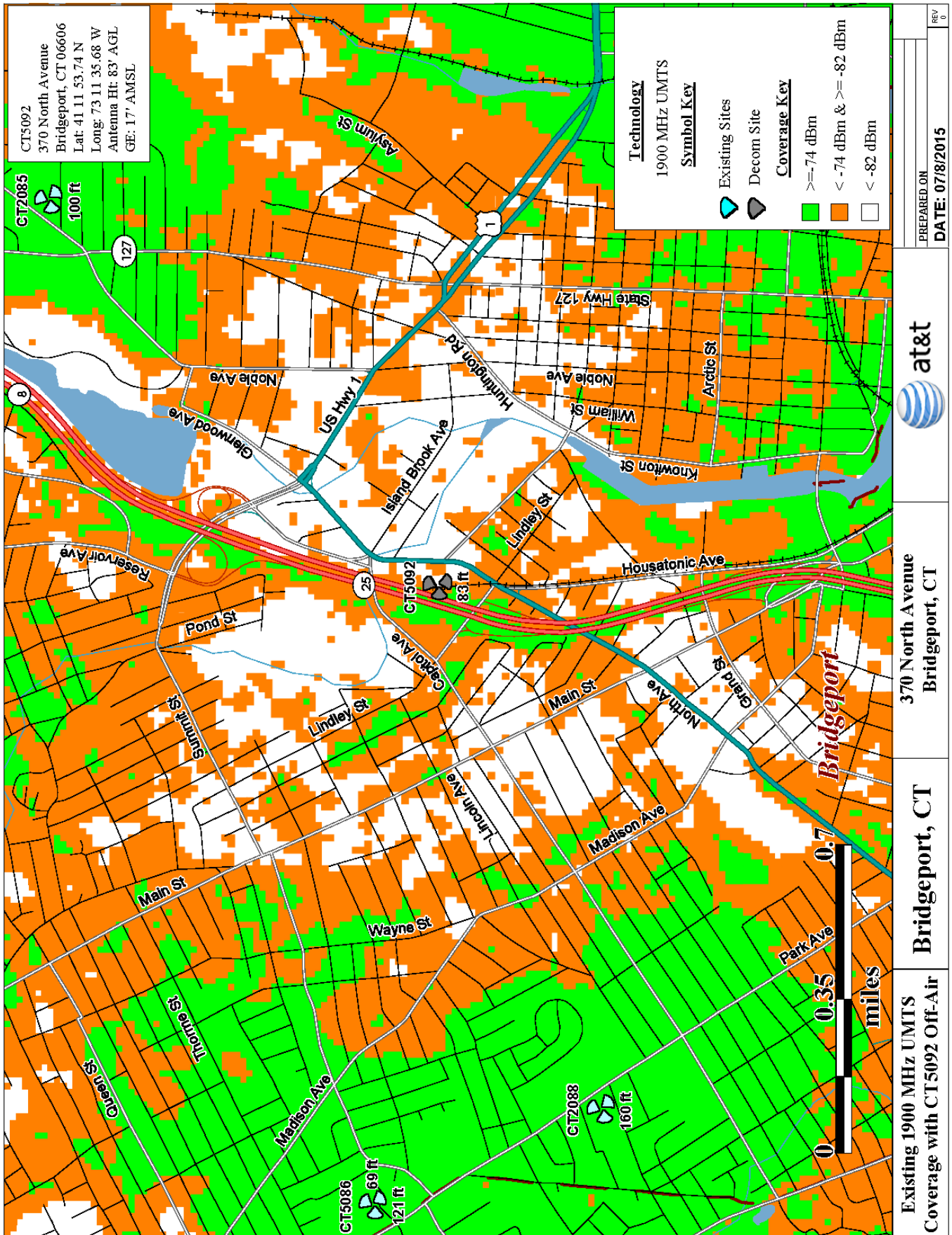
September 28, 2015

Date

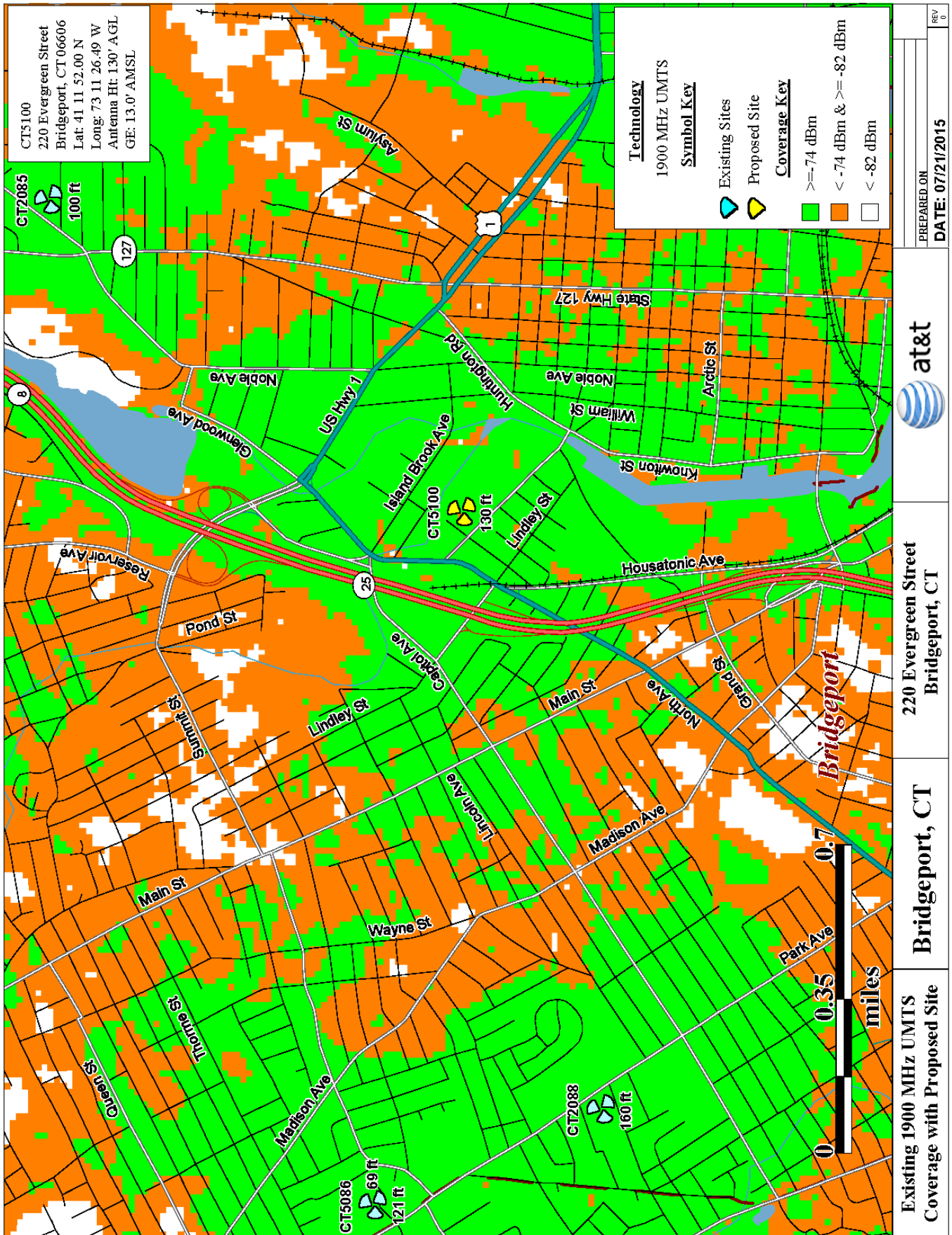
8. Attachments



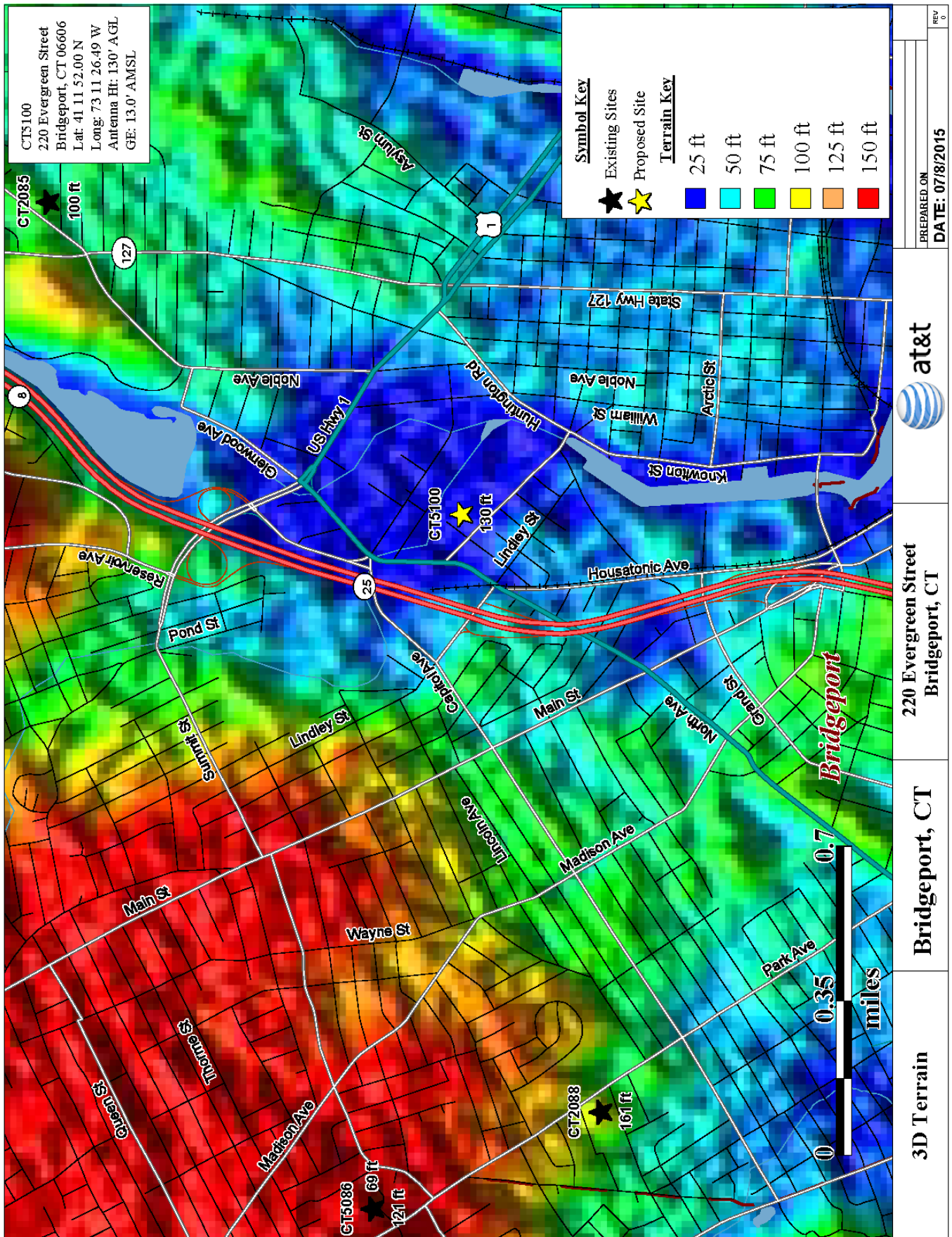
Attachment 1: "Existing 1900 MHz UMTS Coverage" (Current AT&T Network)



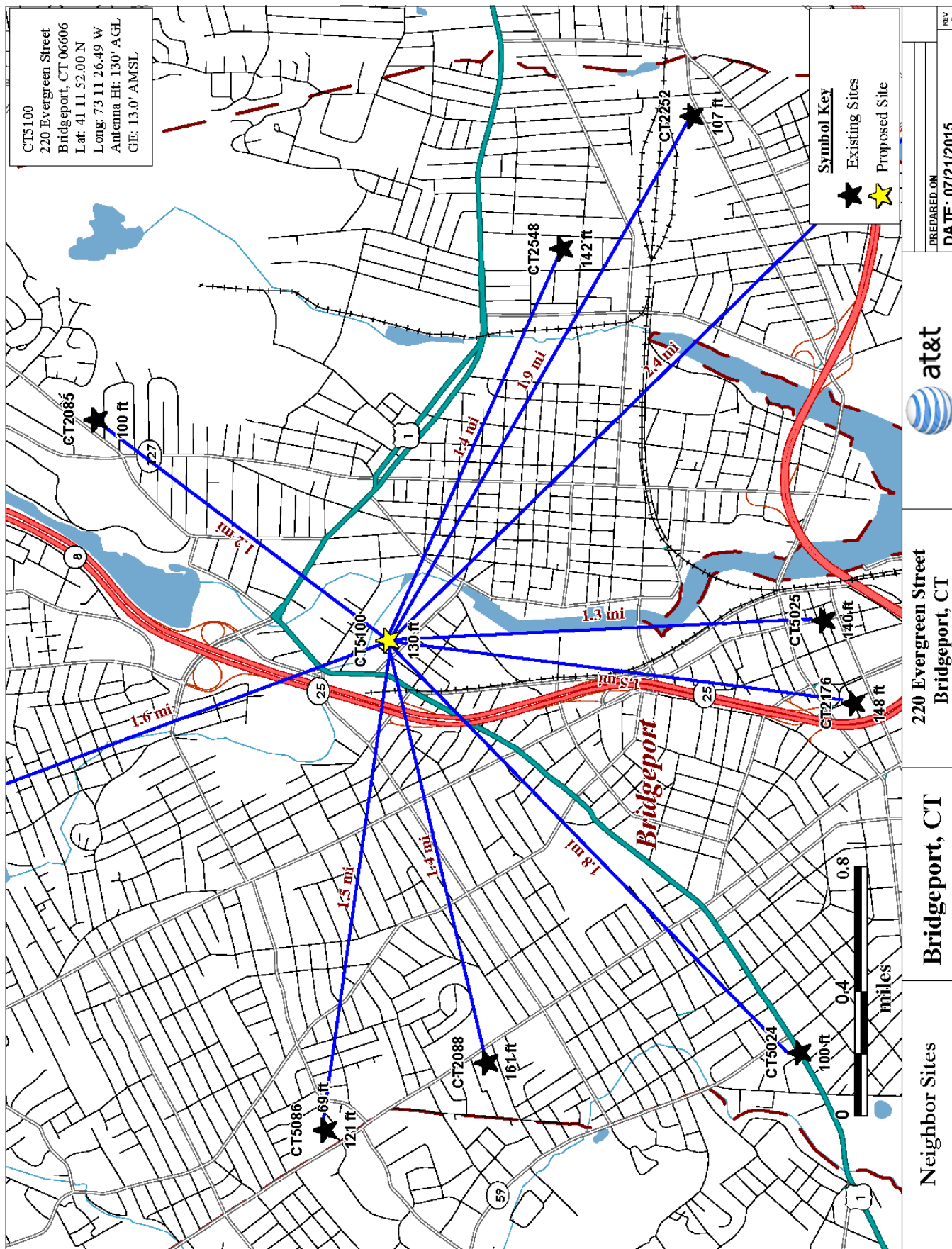
Attachment 2: "1900 MHz UMTS Coverage without CT5092 Site" (CT5092 Decommissioned)



Attachment 3: "Composite 1900 MHz UMTS Coverage with Proposed Site"



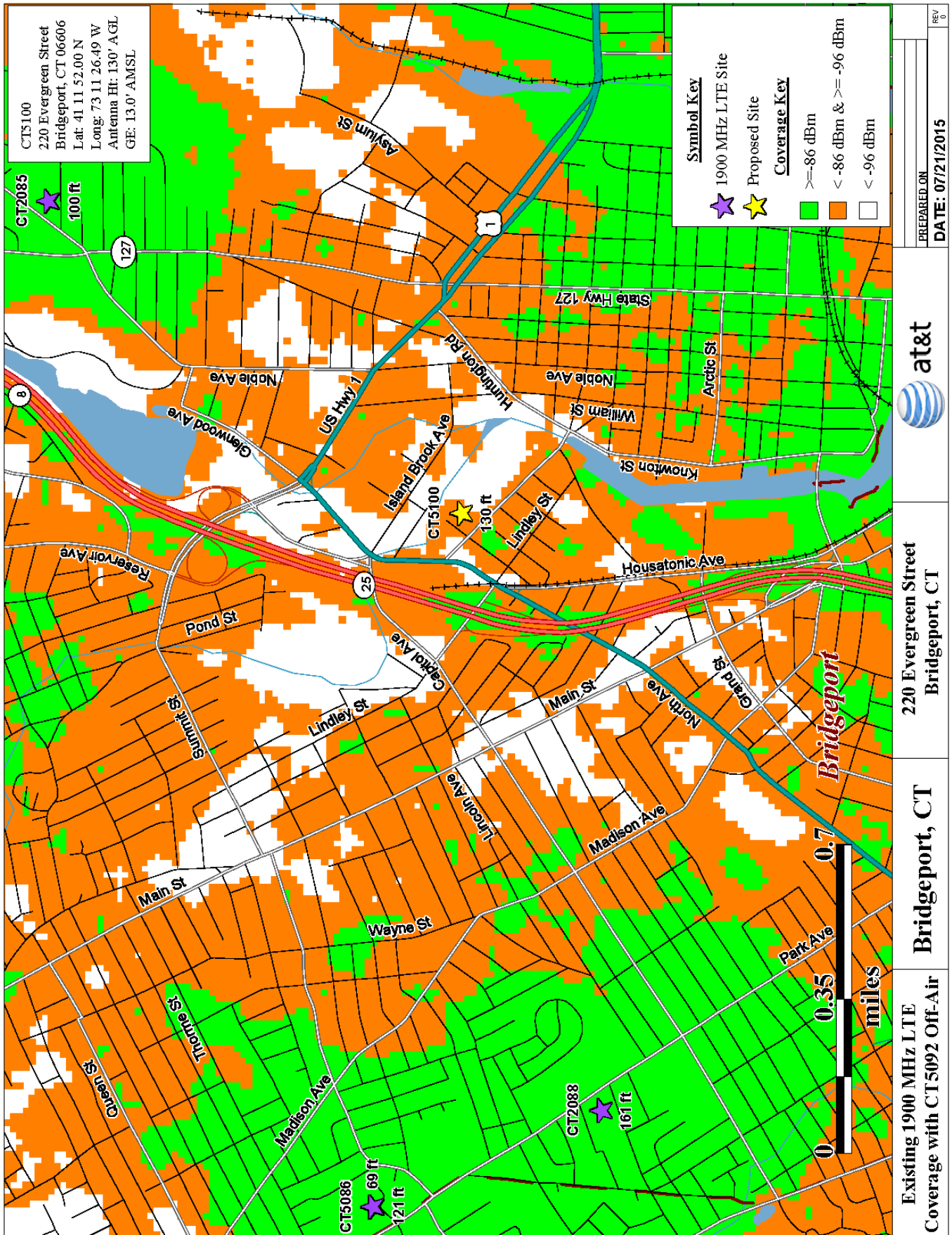
Attachment 4: 3D Terrain Map



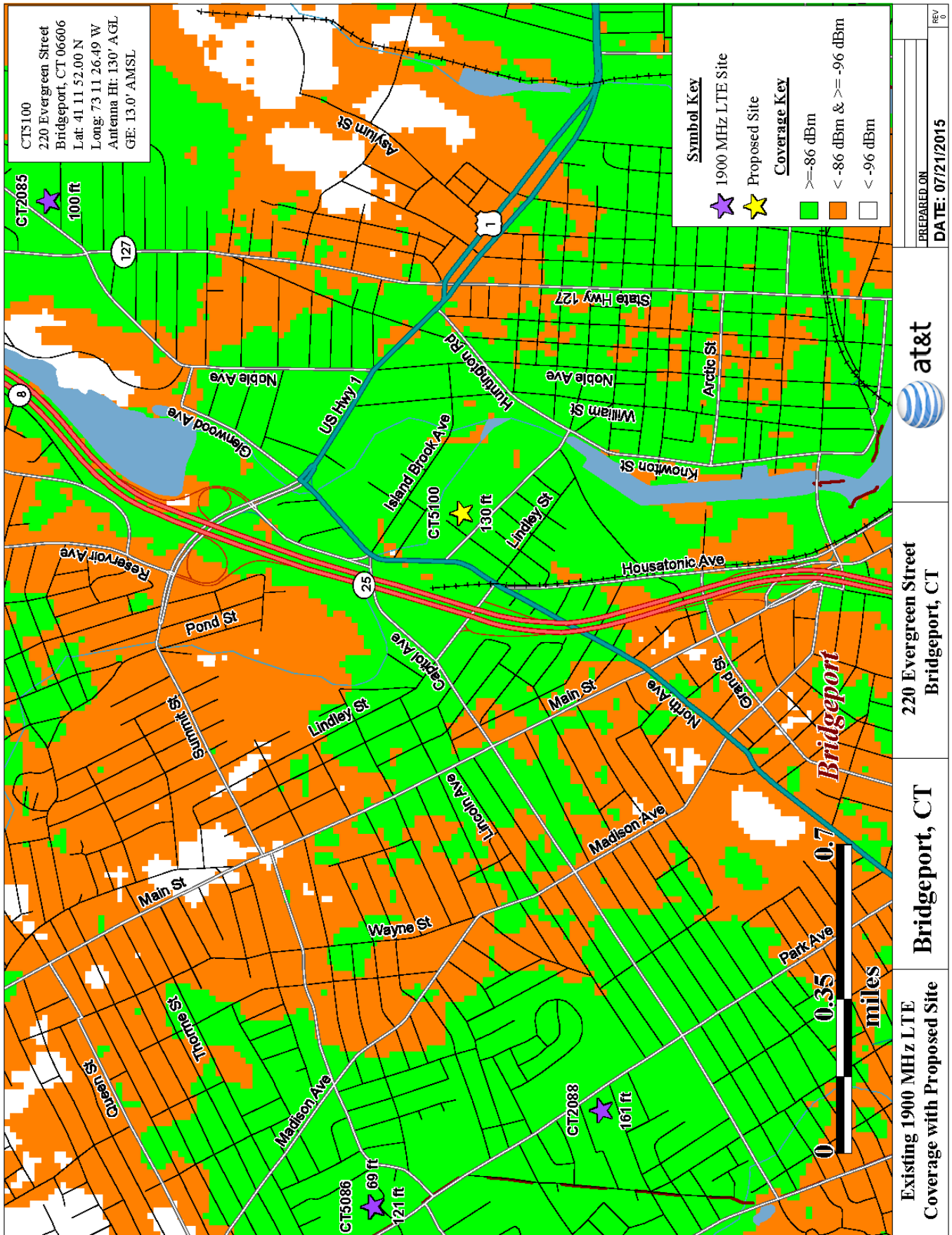
Attachment 5: Map of Distance to Neighbor Sites – Bridgeport

Site Name	Address	Town	Latitude	Longitude	Antenna Centerline (feet)	Distance to Proposed Site (miles)	Structure Type
CT5024	2470 North Avenue	Bridgeport	41.1788	-73.2166	132	1.8	Rooftop
CT2088	2625 Park Avenue	Bridgeport	41.1932	-73.2167	160	1.4	Rooftop
CT5086	3200 Park Avenue	Bridgeport	41.2007	-73.2209	121/69	1.5	Rooftop
CT2106	2 Kaechele Place	Bridgeport	41.2233	-73.2168	154	2.2	Monopole
CT5093	1320 Chopsey Hill Road	Bridgeport	41.2196	-73.2014	165	1.6	Lattice Tower
CT2085	120 Huntington Turnpike	Bridgeport	41.2114	-73.1771	100	1.2	Rooftop
CT2548	267 Grant Street	Bridgeport	41.1897	-73.1666	142	1.4	Rooftop
CT2252	1069 Connecticut Avenue	Bridgeport	41.1836	-73.1584	107	1.9	Monopole
CT2257	225 Lordship Boulevard	Bridgeport	41.1717	-73.1565	63	2.4	Rooftop
CT5025	955 Main Street	Bridgeport	41.1775	-73.1894	140	1.3	Rooftop
CT2176	430 John Street	Bridgeport	41.1761	-73.1946	148	1.5	Rooftop
CT5092	370 North Avenue	Bridgeport	41.19861	-73.193882	83	0.2	Decomission

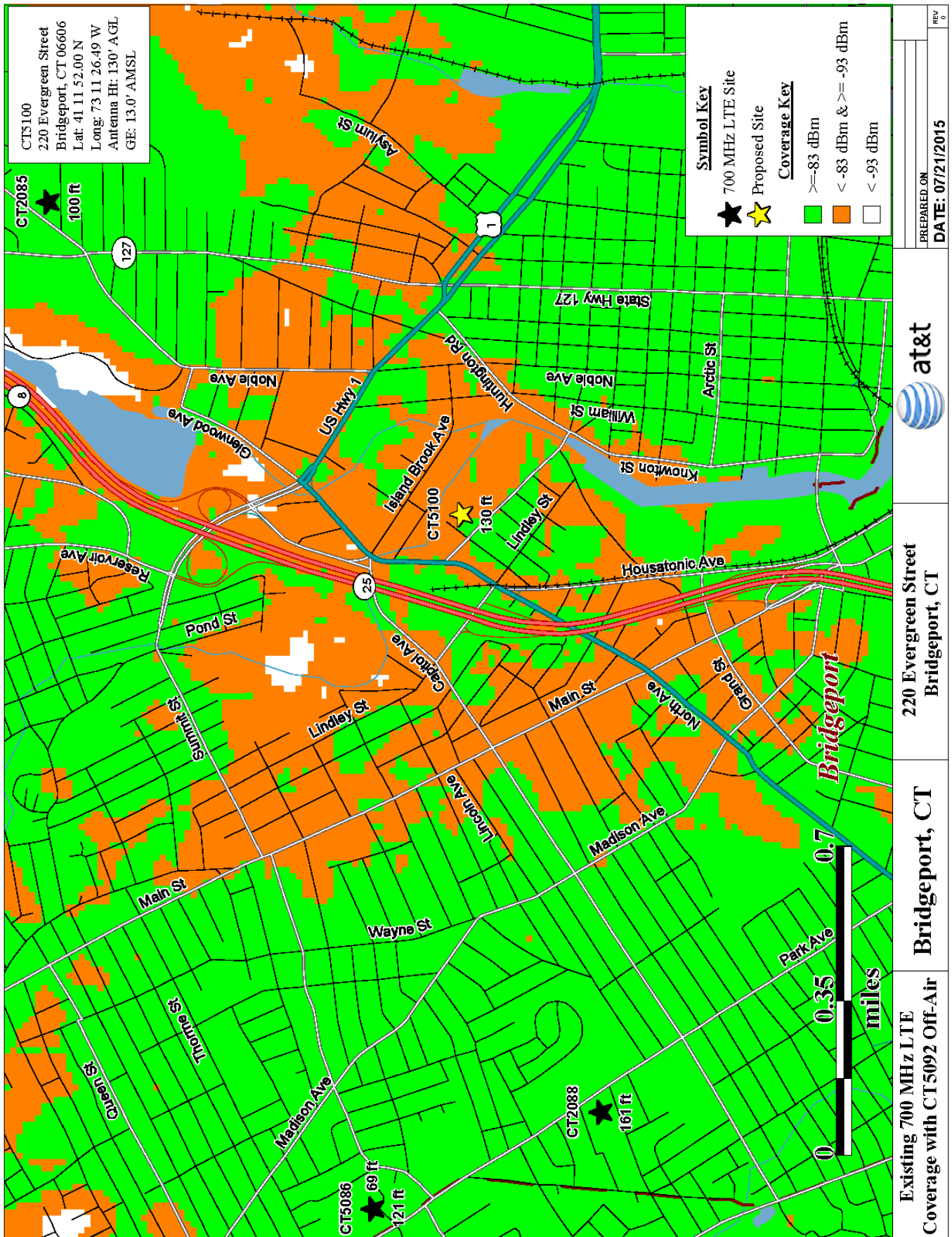
Attachment 6: Neighbor Site Data and Distance to Proposed Site



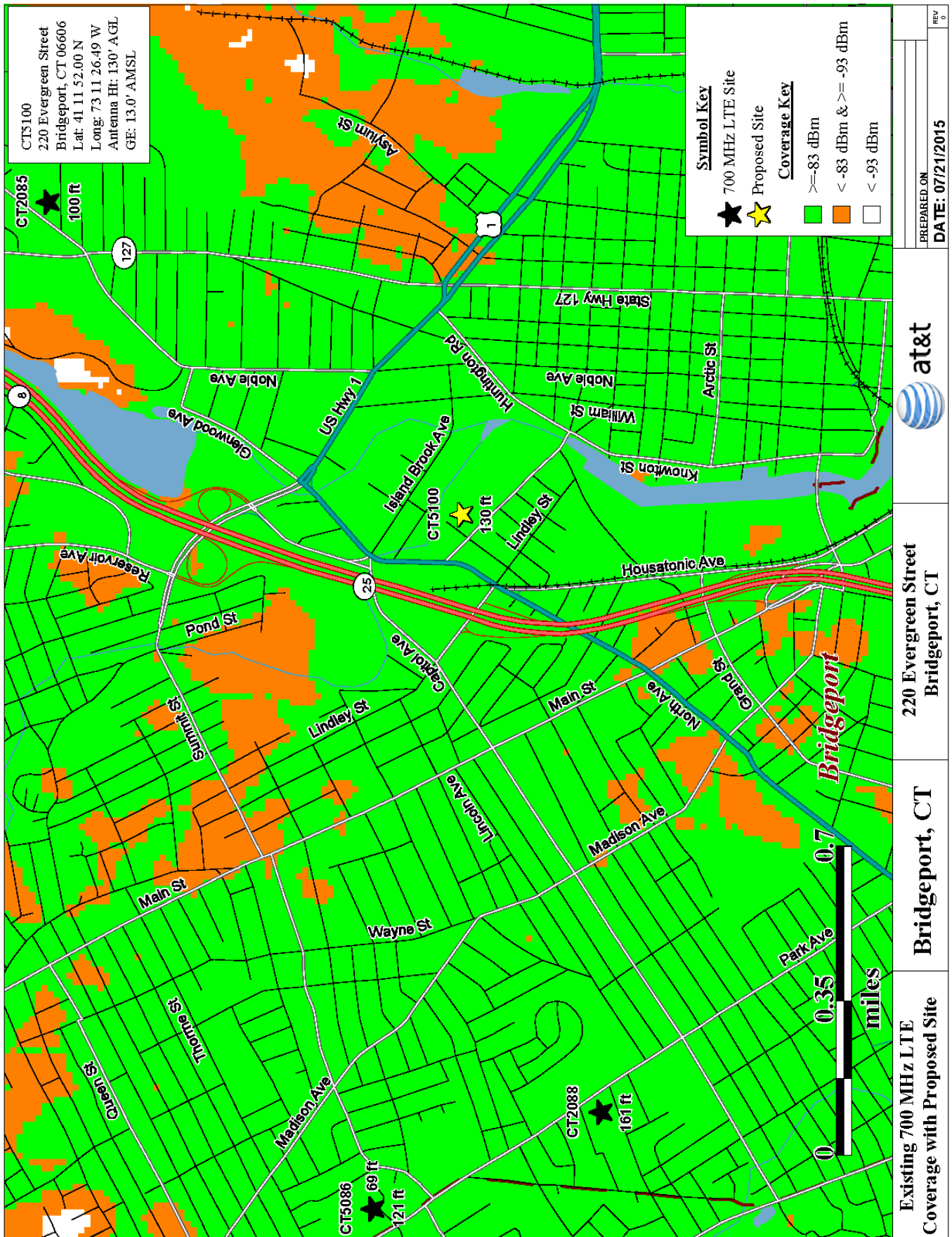
Attachment 7: "1900 MHz LTE Coverage without CT5092 Site" (CT5092 Decommissioned)



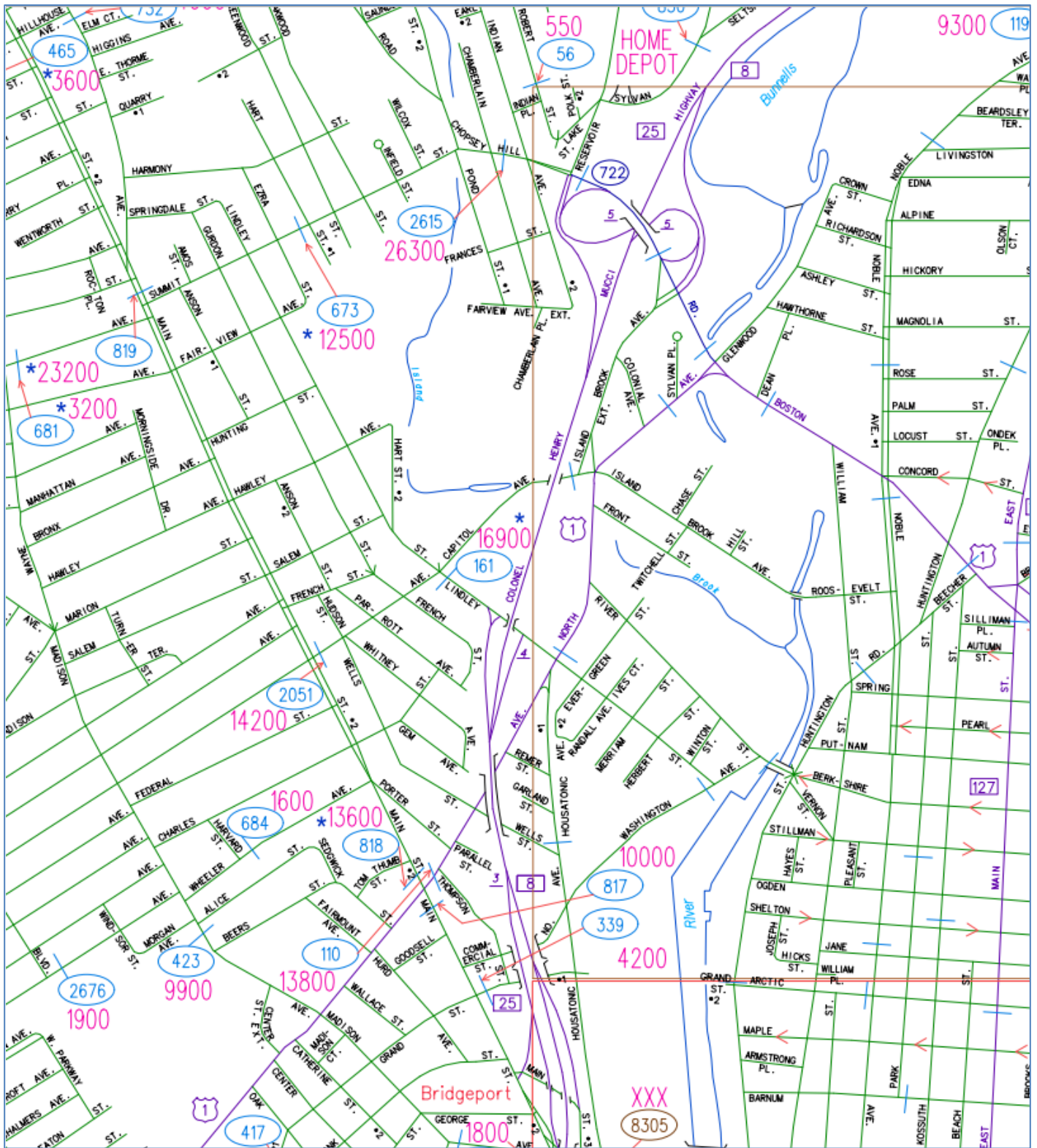
Attachment 8: "Composite 1900 MHz LTE Coverage with Proposed Site"



Attachment 9: "700 MHz LTE Coverage without CT5092 Site" (CT5092 Decommissioned)



Attachment 10: "Composite 700 MHz LTE Coverage with Proposed Site"



Attachment 11: Connecticut DOT Average Annual Daily Traffic Data – Bridgeport

ATTACHMENT 2

ATTACHMENT 2

SITE SEARCH SUMMARY

A search area is developed to initiate a site selection process in an area where network service improvements are required for a specific carrier and/or carriers. The search area is a general geographic region where the installation of a wireless facility would address identified service problems while still allowing for orderly integration of a new facility into a network such as AT&T's. The technical and site selection criteria used by wireless carriers include hand-off, frequency reuse, and interference among other factors. In any site search area, site acquisition specialists seek to avoid the unnecessary proliferation of towers and to reduce the potential adverse environmental effects of a needed facility, while simultaneously seeking sites that RF engineers will qualify as being able to provide quality reliable service to the community.

Once a potential candidate is selected through the identification process, site acquisition teams review any applicable zoning ordinance or other guidance documentation. The most preferred candidates are generally considered to be existing structures that can be used. In order to be viable, a candidate must provide adequate service and be "leasable". In this case, the site search is focused on replacing an existing operational cell site at 370 North Avenue, the HI HO Facility which must be decommissioned.

A review of the communications towers and facilities within proximity to the HI HO Facility and an area within AT&T's surrounding sites in Bridgeport indicated that these sites would not provide adequate replacement coverage to the area targeted for service by the proposed Facility within this particular area of Bridgeport, Connecticut or such structures are not viable for AT&T siting. Based on the location of the existing HI HO Facility set to be decommissioned, terrain and coverage objectives, the search area focused on the industrially zoned areas of Bridgeport in close proximity.

Blue Sky investigated nine (9) potential sites within the site search area, one of which is the current primary candidate being pursued in conjunction with AT&T. Site acquisition specialists found the remainder of these sites to be unavailable for the siting of a wireless facility.

1. 220 Evergreen St., Bridgeport, CT

Owner: Chapin & Bangs Company

Map 53 Block 1527 Lot 2

Zoning: ILI

Acreage: 1.00 acres

Subject Property.

2. 145 Front St. Bridgeport, CT

Owner: Huber Paul & Theodore Jeffries

Map 53 Block 1537 Lot 1-A

Zoning: ILI

Acreage: .39 acres

This site was not chosen as the owner did not want to lease the property. A call was made to the property owner on February 10, 2015 and landowner stated they were not interested.

3. 380 Lindley St. Bridgeport, CT

Owner: B M Property LLC

Map 53 Block 2130 Lot 18

Zoning: ILI

Acreage: .35 acres

This site was not chosen due to a lack of interest from the owner. A call was placed to the owner January 15, 2015 and Peter Denardo said he was not interested in leasing space to us.

4. 494 Lindley St. Bridgeport, CT

Owner: B M Property LLC

Map 53 Block 2130 Lot 38-A

Zoning: ILI

Acreage: 7.19 acres

This site was not chosen due to a lack of interest from the owner. A call was placed to the owner January 15, 2015 and Peter Denardo said he was not interested in leasing space to us.

5. 261 River St., Bridgeport, CT

Owner: River Street Properties Inc.

Map 53 Block 1517 Lot 47

Zoning: ILI

Acreage: .60 acres

This owner is selling property and did not want to interrupt the sale with new lease.

6. 225 Evergreen St. #227, Bridgeport, CT

Owner: Westlund-Krasenics Properties LLC

Map 53 Block 1528 Lot 15

Zoning: ILI

Acreage: .12 acres

Site did not work for the owner as there was not sufficient room for his existing business and a tower site.

7. 125 Front St. Bridgeport, CT

Owner: Desanty Associates LLC

Map 53 Block 1537 Lot 1-B

Zoning: ILI

Acreage: .84 acres

This owner is selling property and did not want to interrupt the sale with new lease.

8. 236 Evergreen St. Bridgeport, CT

Owner: City of Bridgeport

Map: 53 Block 1537 Lot 18/K

Zoning: ILI

Acreage: 6.1

The owner is the City of Bridgeport and the property is used for animal control. I spoke with the mayor at a charity luncheon on March 12 and he thought it would be a good site and put me in touch with his Chief of Staff. I left several messages for his Chief of Staff and then several messages with his secretary to get back with me but have not been able to reach the Mayor or his Chief of Staff since March.

9. 320 North Ave. Bridgeport, CT

Owner: Stephen J. Hutt

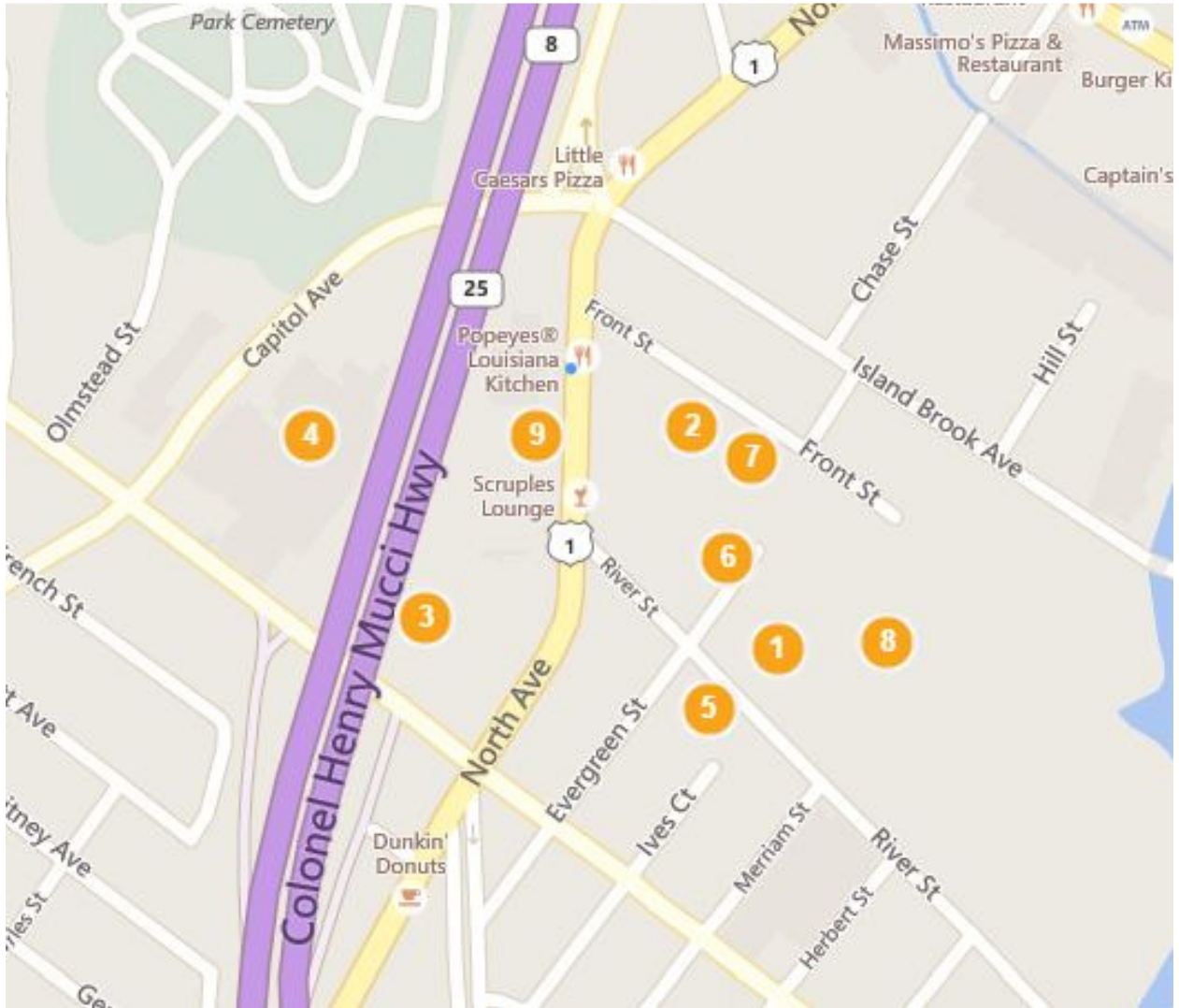
Map: 53 Block 2131 Lot 11

Zoning: ILI

Acreage: .28

This owner was not willing to lease his property due to space constraints.

BLUE SKY SITE SEARCH MAP



PROPERTIES INVESTIGATED BY AT&T

AT&T investigated 7 sites in and around this area of Bridgeport where the construction of a new tower site might be feasible. Site acquisition specialists found these sites to be either adequate and available for the siting of a wireless facility or, for the reasons cited below, unavailable or rejected by RF engineers for AT&T's service requirements.

A. Address: 220 Evergreen Street

Owner: Chapin & Bangs Company

Map/Block/Lot: 53/1527/2

Deed: 2291/54

Zoning District: ILL

Lot Size: Approximately 1 Acre

41-11-52.2 N 73-11-26.8W

This property is the candidate site.

B. Address: 494 Lindley Street

Map/Block/Lot: 53/2130/38A

Deed: 5476/168

Owner: BM Property LLC

Zoning District: ILL

Lot Size: Approximately 7.19 Acres

41-11-53.5 N 73-11-37.7W

This is a proposed stealth installation on a bill board located in the rear parking lot that was rejected by AT&T's radio frequency engineers.

C. Address: 2800 Main Street (St. Vincent's Medical Center)

Map/Block/Lot: 59/2120/1X

Deed: 4066/168

Owner: St. Vincent's Medical Center

Zoning District: MEUM

Lot Size: Approximately 7.84 Acres

41-12-2 N 73-12-8W

This property is 10-story rooftop. Ownership expressed some initial interest in the proposal, but has become unresponsive. .

D. Address: 2875 Main Street

Map/Block/Lot: 59/2223/19K

Deed: 8569/143

Owner: Northbridge Landlord LLC (rooftop managed by American Tower)

Zoning District: ORN

Lot Size: Approximately 1.34 Acres

41-12-4.8 N 73-12-13.8W

Proposed rooftop installation on this nursing home was rejected by AT&T's radio frequency engineers.

E. Address: 2102 Main Street (Olivet Congregational Church)

Map/Block/Lot: 47/2100/6

Deed: Unknown reference in Assessor's office

Owner: Olivet Congregational Society

Zoning District: ORG

Lot Size: Approximately 0.6 Acres

41-11-31 N 73-11-49.9W

Proposed steeple installation was rejected by AT&T's radio frequency engineers.

F. Address: 865 North Ave. (The Cathedral Parish)

Map/Block/Lot: 47/1510/1

Deed: 8534/111

Owner: The cathedral Parish

Zoning District: MUP

Lot Size: Approximately 1.72 Acres

41-11-33 N 73-11-45.3W

Proposed steeple installation was rejected by AT&T's radio frequency engineers.

G. Address: 236 Evergreen Street (Animal Shelter)

Map/Block/Lot: 53/1537/18K

Deed: 7218/326

Owner: City of Bridgeport

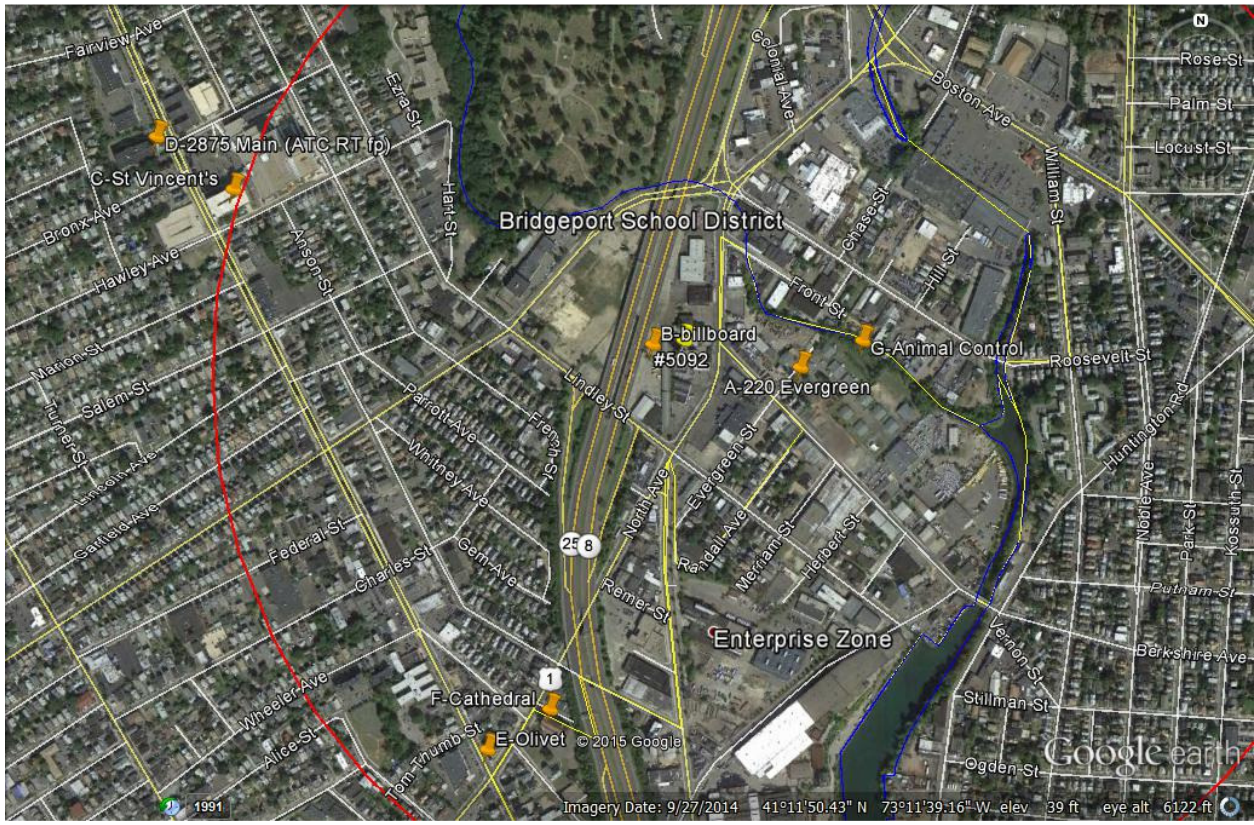
Zoning District: ILI

Lot Size: Approximately 6.1 Acres

41-11-53.7 N 73-11-22W

Proposed raw land development behind kennels was rejected due to its location within a flood zone.

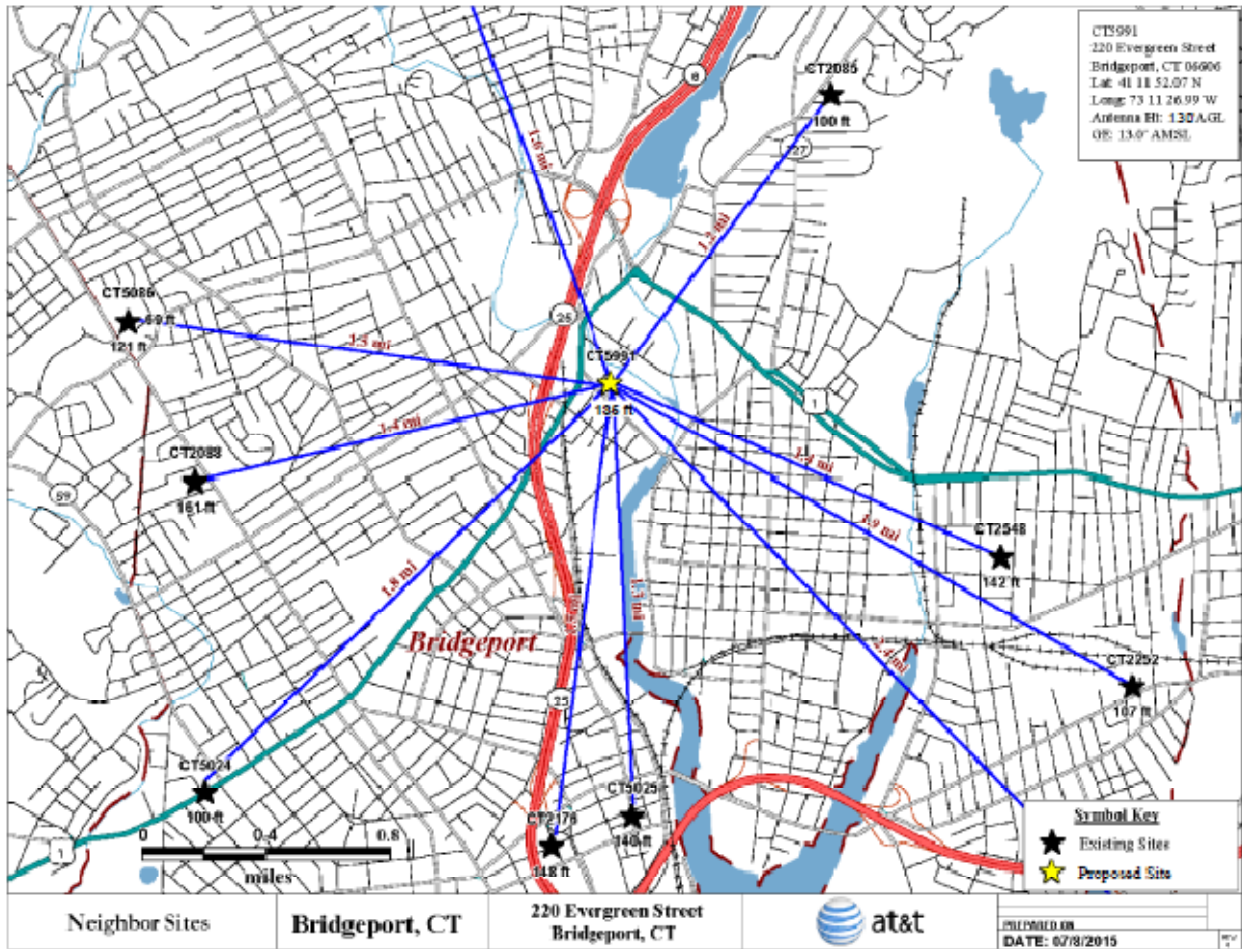
AT&T SITE SEARCH MAP



AT&T EXISTING SURROUNDING SITES

Site Name	Address	Town	Latitude	Longitude	Antenna Centerline (feet)	Distance to Proposed Site (miles)	Structure Type
CT5024	2470 North Avenue	Bridgeport	41.1788	-73.2166	132	1.8	Rooftop
CT2088	2625 Park Avenue	Bridgeport	41.1932	-73.2167	160	1.4	Rooftop
CT5086	3200 Park Avenue	Bridgeport	41.2007	-73.2209	121/69	1.5	Rooftop
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CT5093	1320 Chopsey Hill Road	Bridgeport	41.2196	-73.2014	165	1.6	Lattice Tower
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CT2176	430 John Street	Bridgeport	41.1761	-73.1946	148	1.5	Rooftop
CT5092	370 North Avenue	Bridgeport	41.19861	-73.193882	83	0.2	Decomission

AT&T SURROUNDING SITE MAP



OTHER EXISTING TOWER/CELL SITES

There are only a few listed communications towers and other wireless facility installations located within a ring around the existing HI HO Facility that extends out a mile or less and before reaching other existing and surrounding AT&T sites in Bridgeport. Five locations were noted from the Siting Council database being facilities at 1759 East Main Street, 1875 Noble Avenue, 2875 Main Street, 2012 Main Street and 480 Barnum Avenue. These locations are all in excess of ½ mile from the existing HI HO Facility and cannot effectively replace AT&T coverage from that location due to their relative location, available antenna heights and other factors related to the service provided by AT&T.

ATTACHMENT 3

ATTACHMENT 3

GENERAL FACILITY DESCRIPTION

220 Evergreen Street

Map 53, Block 1527, Lot 2

Bridgeport, Connecticut

Owner: Chapin & Bangs Company

1.0 +/- Acre Parcel

The proposed tower location is on an approximately 1 acre parcel ("Lot 2") with an address of 220 Evergreen Street ("Parcel"), with access from Evergreen Street. The Parcel is owned by Chapin & Bangs Company, who owns an adjoining parcel and is used as part of its steel fabrication services. The lot is in an area of the City zoned I-L (Industrial). Blue Sky Towers, LLC ("Blue Sky") has entered into a lease with Chapin & Bangs Company and AT&T has entered into an agreement with Blue Sky for construction of a replacement tower facility on the Parcel which would be owned by Blue Sky. AT&T would install and operate a wireless facility at the site.

The proposed permanent telecommunications tower facility includes a 3,617' fenced compound with access from Evergreen Street, located along the parcel's frontage on Evergreen Street. The tower is proposed as a new self-supporting monopole 135' in height. AT&T would install up to twelve (12) panel antennas and related equipment at a centerline height of 130' above grade level (AGL) on the tower. The tower would be designed for future shared use of the structure by two additional FCC licensed wireless carriers. A permanent AT&T 12' x 20' equipment shelter would be installed at the tower base on a concrete pad within the existing tower compound together with provisions for a fixed emergency back-up power generator on a 4' x 8' concrete pad.

The tower compound would accommodate AT&T's equipment and provide for future shared use of the facility by other carriers. The tower compound is

enclosed by an 8' high chain link fence. Vehicle access to the facility is over a 15' wide access easement with a gate on Evergreen Street. Utility connections are be routed overhead from an existing utility pole located along Evergreen Street.

SITE AND FACILITY DESCRIPTION

I. LOCATION

- A. COORDINATES: 41° 11' 52.00" N 73° 11' 26.49" W
- B. GROUND ELEVATION: 13'± AMSL
- C. USGS MAP: USGS 7.5 Quadrangle for Bridgeport, CT
- D. SITE ADDRESS: 220 Evergreen Street, Bridgeport, CT 06606
- E. ZONING WITHIN ¼ MILE OF SITE: Abutting areas are zoned I-L Industrial and MU-LI Mixed Use-Light Industrial

II. DESCRIPTION

- A. SITE SIZE: 1.0 acre
(VOL 2291, PAGE 54 AND VOL 54, PAGE 25)
- B. LEASE AREA/COMPOUND AREA: 3,617.5 SF
- C. TOWER TYPE/HEIGHT: 135' AGL Monopole
- D. SITE TOPOGRAPHY AND SURFACE: Proposed facility is located on a vacant/ undeveloped Parcel of land used for material storage.
- E. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER:
The tower compound is located along the parcel's frontage on Evergreen Street. There are no wetlands in the vicinity of the tower site. The proposed permanent replacement tower facility is just outside of the 100 year flood zone located on the lot. The area slated for development of a permanent tower is already a gravel cleared area on the lot.
- F. LAND USE WITHIN ¼ MILE OF SITE: Dense Commercial and Industrial, Multifamily Residential and the City's Animal Control facility.

III. FACILITIES

- A. POWER COMPANY: United Illuminating (UI)
- B. POWER PROXIMITY TO SITE: Overhead Pole Line Along Evergreen Street
- C. TELEPHONE COMPANY: Frontier
- D. PHONE SERVICE PROXIMITY: Overhead Pole Line Along Evergreen Street
- E. VEHICLE ACCESS TO SITE: Proposed access to the site will from Evergreen Street and a gate at the property line which is fenced.
- F. OBSTRUCTION: None known at this time.
- G. AREA OF DISTURBANCE: Minimal clearing and grading will be needed to develop the permanent tower site and driveway, the total amount for which is less than 10% of the one acre lot.

IV. LEGAL

- A. PURCHASE LEASE
- B. OWNER: Chapin & Bangs Company (Tower Ground Lessor)
- C. ADDRESS: 220 Evergreen Street
Bridgeport, CT 06606
- D. DEED ON FILE AT: VOL. 2291, PAGE 54 AND VOL 54, PAGE 25

FACILITIES AND EQUIPMENT SPECIFICATION

I. TOWER SPECIFICATIONS:

- A. MANUFACTURER: To be determined
- B. TYPE: Self-Supporting monopole
- C. HEIGHT: 135' AGL
DIMENSIONS: Approximately 42" in diameter at the base, tapering to approximately 28" at the top.
- D. FAA TOWER LIGHTING: None required per Towair.

II. TOWER LOADING:

- A. AT&T - up to 12 panel antennas
 - a. Model - CCI HPA-65R-BUU-H8 or equivalent panel antenna
 - b. Antenna Dimensions - approximately 92.4"H x 14.8"W x 7.4"D
 - c. Position on Tower - 130' centerline AGL
 - d. Transmission Lines - MFG/Model: Rosenberger WR-VG86ST-BRD (DC) (0.795") & Rosenberger FB-L98B-034 (fiber)(10 mm).
 - e. Remote Radio Heads & Surge Arrestor
- B. Future Carriers -Future wireless carriers to be determined.

III. ENGINEERING ANALYSIS AND CERTIFICATION:

The tower will be designed in accordance with American National Standards Institute TIA/EIA-222-F and G "Structural Standards for Steel Antenna Towers and Antenna Support Structures" and the 2003 International Building Code with 2005 Connecticut Amendment. The foundation design would be based on soil conditions at the site. The

final details of the tower and foundation design will be provided as part of any final Siting Council Development & Management Plan.

ATTACHMENT 4

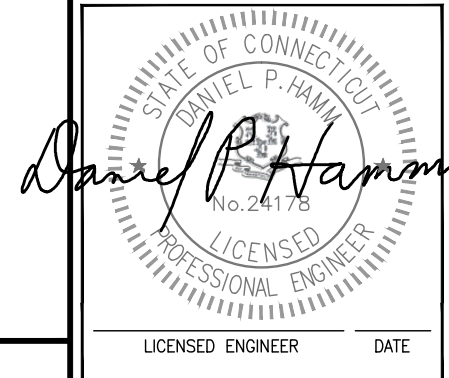


SITE NUMBER: CT5020

SITE NAME: EVERGREEN STREET

220 EVERGREEN STREET
BRIDGEPORT, CT 06606

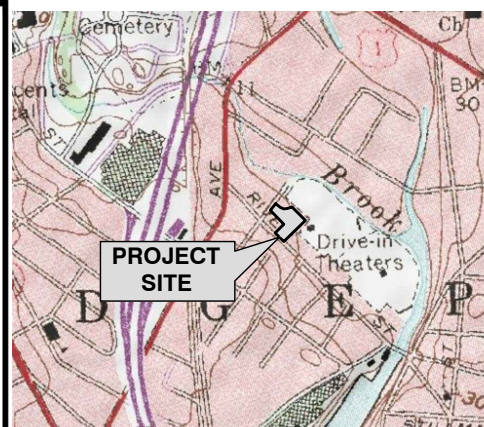
SITE TYPE: PERMANENT TOWER INSTALLATION



SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
C-1	ABUTTERS PLAN
C-2	EXISTING CONDITIONS
C-3	SITE PLAN
A-1	ELEVATION
A-2	EQUIPMENT SHELTER DETAILS
A-3	SITE DETAILS
A-4	EROSION CONTROL NOTES AND DETAILS

TOPOGRAPHIC MAP SCALE: 1"=800'



SOURCE: WWW.MYTOPO.COM

AERIAL MAP SCALE: 1"=800'



SOURCE: WWW.BING.COM/MAPS

SCOPE OF WORK

BLUE SKY TOWERS IS PROPOSING TO INSTALL THE FOLLOWING IMPROVEMENTS TO THE PROPOSED TELECOMMUNICATION SITE:

- NEW (3) AT&T ANTENNAS PER SECTOR, (3) SECTORS, FOR A TOTAL OF (9) ANTENNAS AND ASSOCIATED EQUIPMENT AND CABLES.
- ITEMS LISTED ABOVE TO BE MOUNTED ON PROPOSED BLUE SKY TOWER'S PERMANENT MONOPOLE.
- NEW PERMANENT 11'-5"x20' AT&T SHELTER.
- POWER AND TELCO UTILITIES SHALL BE ROUTED OVERHEAD FROM THEIR RESPECTIVE DEMARKS TO PROPOSED UTILITY POLE.

FINAL DEMARK LOCATION AND UTILITY ROUTING TO THE PROPOSED UTILITY POLE WILL BE VERIFIED/DETERMINED BY LOCAL UTILITY COMPANIES. UTILITIES WILL BE ROUTED UNDERGROUND FROM THE UTILITY BACKBOARD TO THE PROPOSED NOMINAL 11'-5"x20'-0" AT&T EQUIPMENT SHELTER. ITEMS LISTED ABOVE TO BE INSTALLED WITHIN PROPOSED 3,616 ± SQ.FT. BLUE SKY TOWER'S FENCED LEASE AREA.

REVISIONS

REV. #	DATE	DESCRIPTION
3	11/17/15	REVISED PER COMMENTS
2	08/14/15	REVISED PER COMMENTS
1	07/20/15	REVISED PER COMMENTS
0	07/10/15	ISSUED FOR REVIEW

PROJECT NO. CT5020	DESIGNED BY: DJR DRAWN BY: SB/MC CHECKED BY: DPH	SCALE: AS SHOWN
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PROJECT INFORMATION:

PROPERTY OWNER:	CHAPIN & BANGS COMPANY P.O. BOX 1117 BRIDGEPORT, CT 06601
APPLICANT:	BLUE SKY TOWERS LLC 158 MAIN STREET, SUITE 2 NORFOLK, MA 02056
SITE ADDRESS:	220 EVERGREEN STREET BRIDGEPORT, CT 06606
COUNTY:	FAIRFIELD
LATITUDE:	N 41° 11' 52.00"
LONGITUDE:	W 73° 11' 26.49"
PARCEL ID:	53-1527-2
LAND AREA:	1.0 ± ACRES
ARCHITECT / ENGINEER:	HUDSON DESIGN GROUP LLC 1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 N. ANDOVER, MA 01845

DRIVING DIRECTIONS

DIRECTIONS TO SITE:
FROM 158 MAIN STREET NORFOLK, MA:

DEPART MAIN ST TOWARD BOARDMAN ST
KEEP RIGHT TO STAY ON PLEASANT ST
BEAR RIGHT ONTO RT-140 / W CENTRAL ST
TAKE RAMP FOR I-495 N
AT EXIT 22, TAKE RAMP RIGHT FOR I-90 WEST TOWARD ALBANY / SPRINGFIELD
AT EXIT 9, TAKE RAMP RIGHT FOR I-84 TOWARD NEW YORK CITY / HARTFORD
AT EXIT 57, TAKE RAMP LEFT FOR CT-15 SOUTH TOWARD N.Y. CITY / CHARTER OAK BR
KEEP STRAIGHT ONTO US-5 S / CT-15 S
AT EXIT 86, TAKE RAMP RIGHT FOR I-91 SOUTH TOWARD N.Y. CITY / NEW HAVEN
AT EXIT 17, TAKE RAMP RIGHT FOR CT-15 SOUTH TOWARD E. MAIN ST / W. CROSS PKWY
AT EXIT 52, TAKE RAMP RIGHT FOR CT-8 SOUTH TOWARD BRIDGEPORT
AT EXIT 5, TAKE RAMP RIGHT TOWARD NORTH AVE / BOSTON AVE
TURN RIGHT ONTO CHOPSEY HILL RD
TURN RIGHT ONTO US-1 / NORTH AVE
BEAR LEFT ONTO RIVER ST
TURN LEFT ONTO EVERGREEN ST
ARRIVE AT 220 EVERGREEN ST, BRIDGEPORT, CT 06606

GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



3 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 1-800-922-4455
UNDERGROUND SERVICE ALERT



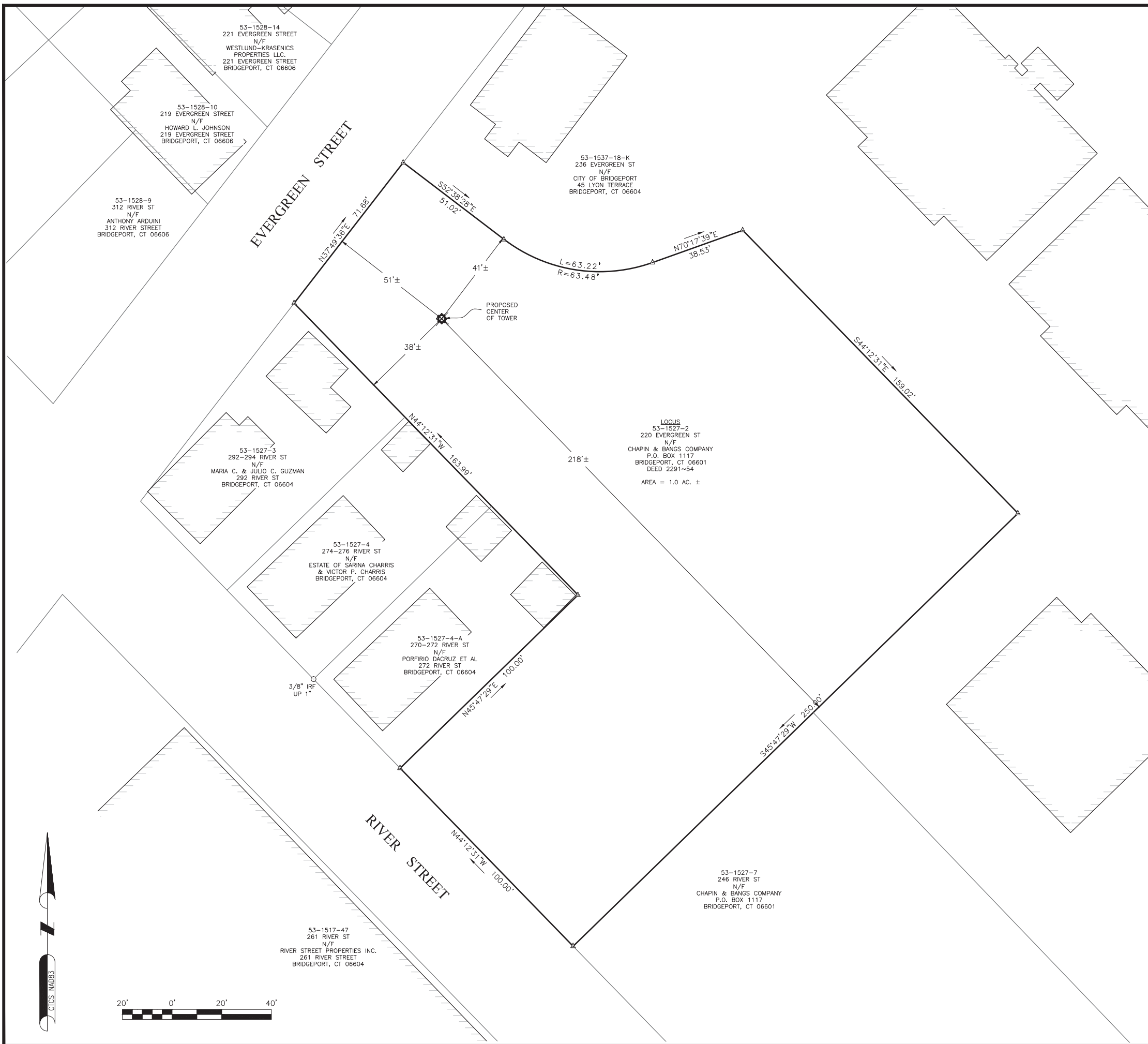
SITE NAME:
EVERGREEN STREET

SITE NUMBER:
CT5020

SITE ADDRESS:
220 EVERGREEN STREET
BRIDGEPORT, CT 06606

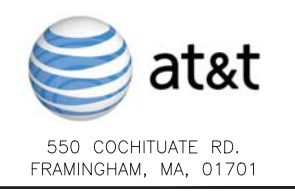
SHEET TITLE:
TITLE SHEET

SHEET NO:
T-1



SITE NOTES

1. FIELD SURVEY DATE: 06-09-2015
2. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83 2011)
3. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD88)
3. ZONING: IL - INDUSTRIAL LIGHT ZONE
4. OWNER: CHAPIN & BANGS COMPANY
P.O. BOX 1117
BRIDGEPORT, CT 06601
5. SITE NAME: HI HO REPLACEMENT COW
6. SITE NUMBER: CT5092
7. SITE ADDRESS: 220 EVERGREEN STREET
BRIDGEPORT, CT 06606
8. APPLICANT: AT&T
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701
9. AREA: 1.0 ACRES ±
10. TAX ID: 53-1527-2
11. DEED REFERENCES: BOOK 2291 PAGE 54
12. PLAN REFERENCES: BOOK 54 PAGE 25
13. THE HORIZONTAL DATUM AND VERTICAL DATUM WERE DERIVED FROM AN RTK GPS SURVEY.
14. ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON WAS DETERMINED FROM SURFACE EVIDENCE AND PLANS OF RECORD. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK. CALL DIGSAFE 1-800-322-4844 A MINIMUM OF 72 HOURS PRIOR TO PLANNED ACTIVITY.
15. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, A PORTION OF THIS PROPERTY IS LOCATED IN AN AREA DESIGNATED AS ZONE X (SHADED), 0.2% ANNUAL CHANCE FLOOD HAZARD, AND A PORTION OF THIS PROPERTY IS LOCATED IN AN AREA DESIGNATED AS ZONE AE, 1% ANNUAL CHANCE FLOOD HAZARD.
- COMMUNITY PANEL NO. 09001 C0429 G
EFFECTIVE DATE: JULY 8, 2013
16. FIELD SURVEY BY EDM TOTAL STATION AND RTK GPS.
17. **THIS IS NOT A BOUNDARY SURVEY.**
18. LOCUS PROPERTY LINES ARE BASED UPON PLANS OF RECORD AND MONUMENTS FOUND. ABUTTING PROPERTY LINES ARE FROM THE CITY OF BRIDGEPORT'S ASSESSOR'S PARCELS AND ARE APPROXIMATE ONLY.



SEE BELOW

LICENSED SURVEYOR _____ DATE _____

LEGEND

- LOCUS PROPERTY LINE ±
- ABUTTERS PROPERTY LINE ±
- - - ZONING LINE
- IRON ROD FOUND

SIGNATURE

THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON SEPTEMBER 26, 1997.

TYPE OF SURVEY: IMPROVEMENT LOCATION SURVEY
BOUNDARY SURVEY CATEGORY: DEPENDENT RESURVEY

CLASS OF ACCURACY: HORIZONTAL CLASS D
VERTICAL CLASS V-2
PURPOSE OF SURVEY: PROPOSED TEMPORARY CELLULAR TOWER

THIS DOCUMENT AND COPIES THEREOF ARE VALID ONLY IF THEY BEAR THE LIVE SIGNATURE AND EMBOSSED SEAL OF THE DESIGNATED PROFESSIONAL. UNAUTHORIZED ALTERATIONS RENDER ANY DECLARATION NULL AND VOID.

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

Charles G. Gidman

 CHARLES G. GIDMAN, P.L.S. #70103

REVISIONS

REV. #	DATE	DESCRIPTION
0	07/10/15	ISSUED FOR REVIEW

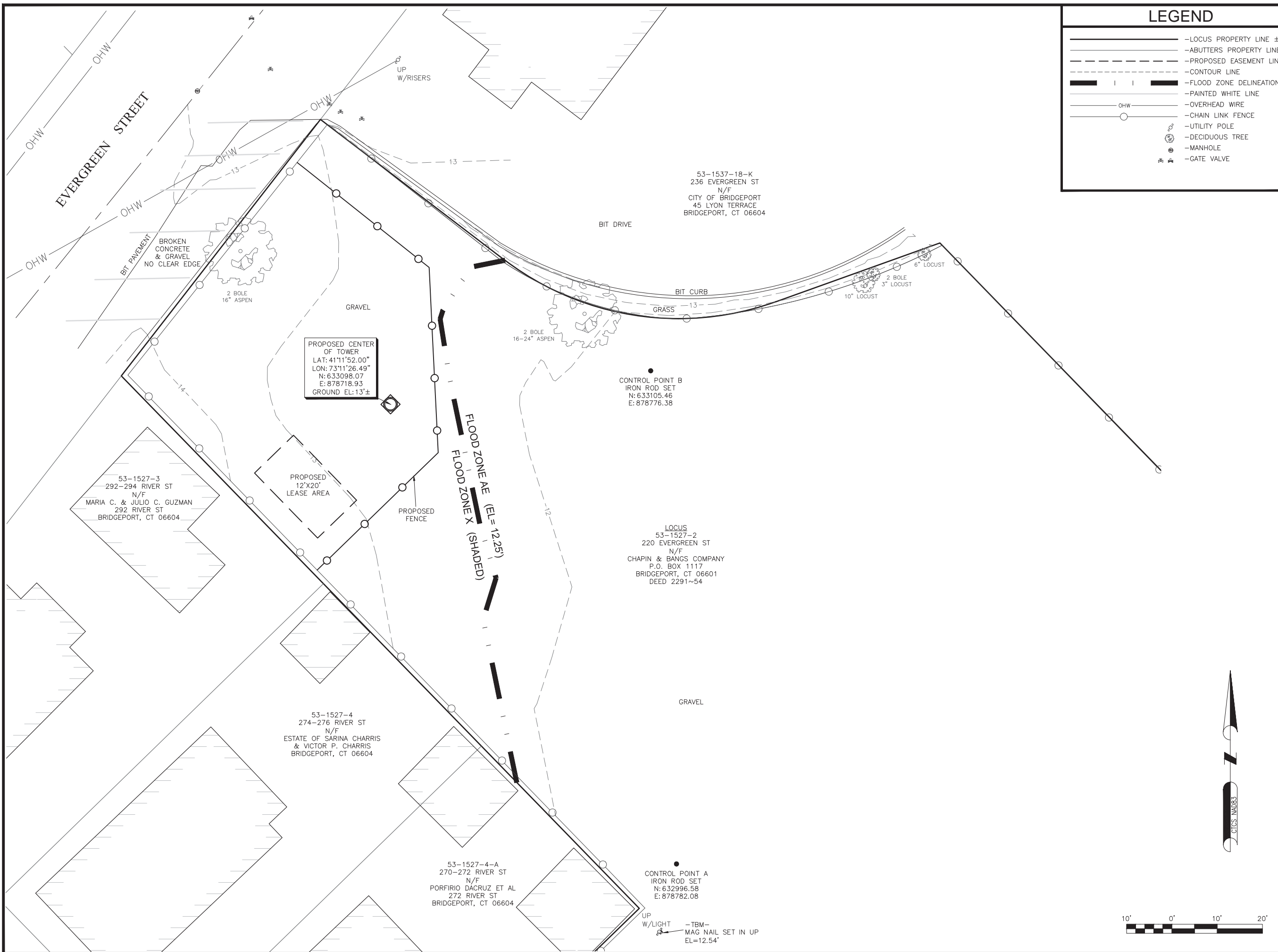
PROJECT NO. CT5020	DESIGNED BY: - DRAWN BY: C.H. CHECKED BY: BCF	SCALE: 1" = 20'
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SITE NAME:
**CT5020
EVERGREEN STREET**

SITE ADDRESS:
220 EVERGREEN STREET
BRIDGEPORT, CT 06606

SHEET TITLE:
ABUTTERS PLAN

SHEET NO:
C-1



LEGEND

- LOCUS PROPERTY LINE ±
- ABUTTERS PROPERTY LINE ±
- PROPOSED EASEMENT LINE
- CONTOUR LINE
- FLOOD ZONE DELINEATION
- PAINTED WHITE LINE
- OVERHEAD WIRE
- CHAIN LINK FENCE
- UTILITY POLE
- DECIDUOUS TREE
- MANHOLE
- GATE VALVE

BLUE SKY TOWERS, LLC
158 MAIN STREET, SUITE 2, NORFOLK,
MASSACHUSETTS 02056

550 COCHITUATE RD.
FRAMINGHAM, MA, 01701

1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845

TEL: (978) 557-5553
FAX: (978) 336-5586

STATE OF CONNECTICUT
CHAPMAN & BIRDAN
07045
LICENSED
LAND SURVEYOR

07-10-15
LICENSED SURVEYOR DATE

REVISIONS		
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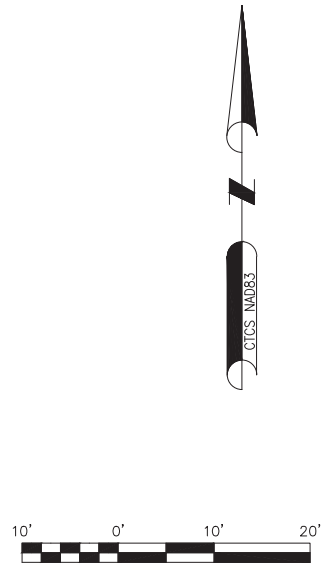
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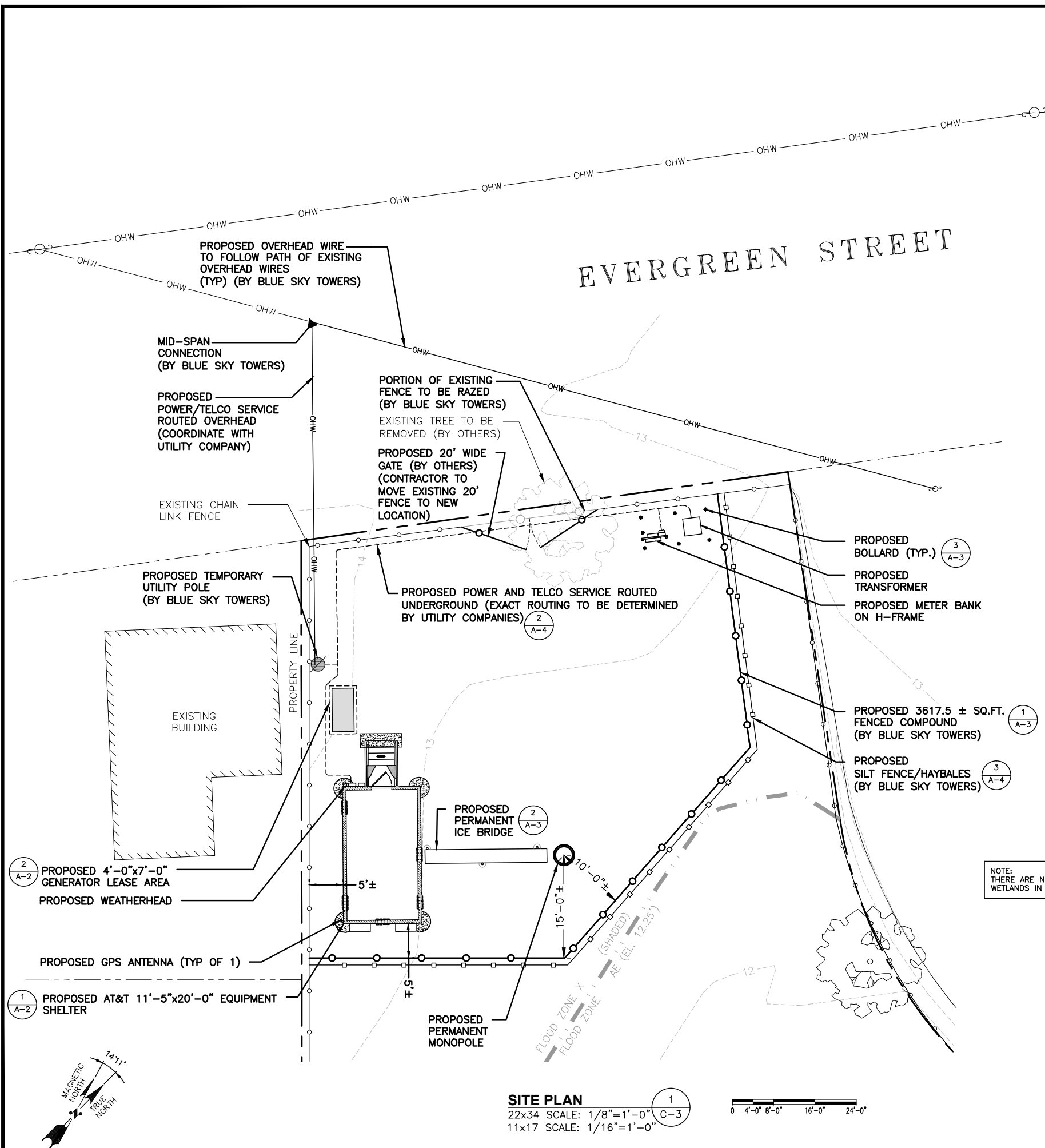
SITE NAME:
**CT5020
EVERGREEN STREET**

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220 EVERGREEN STREET
BRIDGEPORT, CT 06606

SHEET TITLE:
**EXISTING
CONDITIONS**

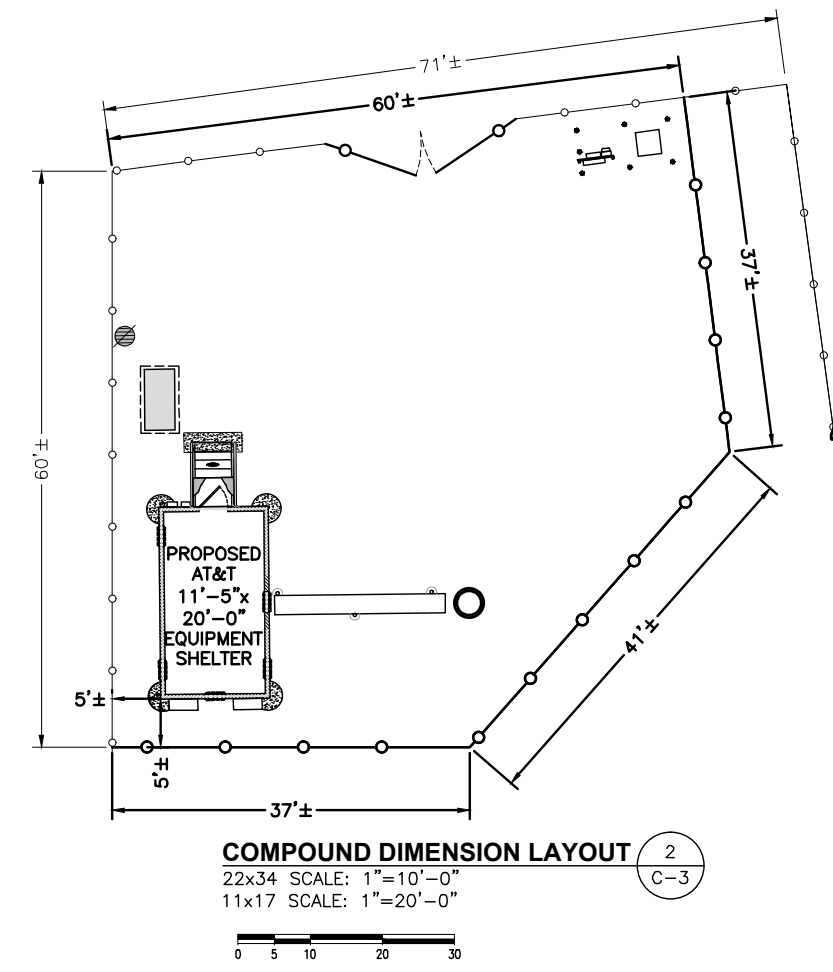
SHEET NO:
C-2





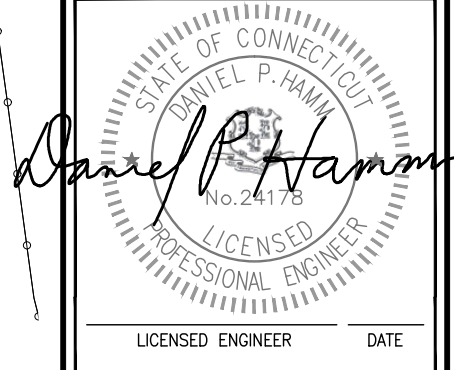
LEGEND

---	LOCUS PROPERTY LINE ±	---	EXISTING -OVERHEAD WIRE
- - -	ABUTTERS PROPERTY LINE ±	---	EXISTING -CHAIN LINK FENCE
- . - . -	PROPOSED -EASEMENT LINE	---	EXISTING -UTILITY POLE
---	EXISTING -CONTOUR LINE	---	EXISTING -DECIDUOUS TREE
---	EXISTING -FLOOD ZONE DELINEATION	---	EXISTING -MANHOLE
---		---	EXISTING -GATE VALVE



SITE PLAN
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

NOTE: THERE ARE NO EXISTING WETLANDS IN VICINITY.



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BRIDGEPORT, CT 06606

SHEET TITLE:
SITE PLAN

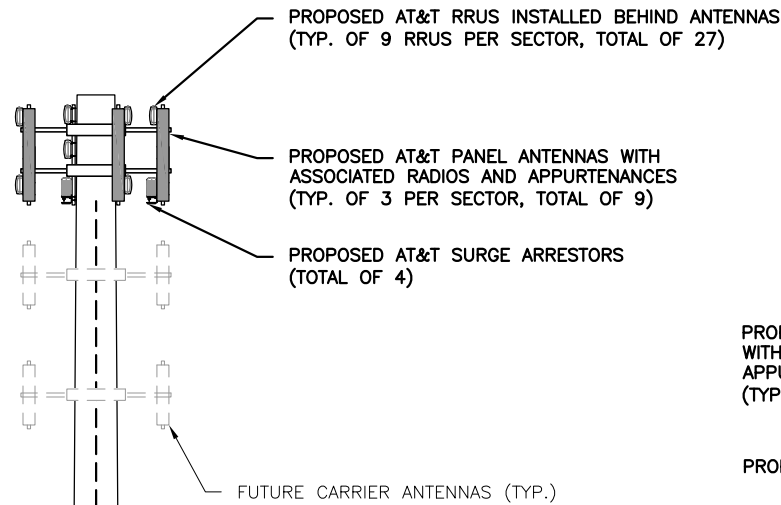
SHEET NO.:
C-3

TOP OF PROPOSED PERMANENT MONOPOLE
ELEV.=135'-0"± (AGL)

CL OF PROPOSED AT&T ANTENNAS
ELEV.=130'-0"± (AGL)

CL OF FUTURE CARRIER ANTENNAS
ELEV.=120'-0"± (AGL)

CL OF FUTURE CARRIER ANTENNAS
ELEV.=110'-0"± (AGL)



PROPOSED AT&T PANEL ANTENNAS WITH ASSOCIATED RADIOS AND APPURTENANCES (TYP. OF 3 PER SECTOR, TOTAL OF 9)

PROPOSED ANTENNA PLATFORM

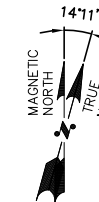
PROPOSED AT&T SURGE ARRESTORS (TOTAL OF 4)

PROPOSED AT&T RRUS INSTALLED BEHIND ANTENNAS (TYP. OF 9 RRUS PER SECTOR, TOTAL OF 27)

GAMMA AZIMUTH: 270°

ALPHA AZIMUTH: 30°

BETA AZIMUTH: 150°



ANTENNA PLAN
22x34 SCALE: N.T.S

2
A-1

PROPOSED 135' MONOPOLE (BY BLUE SKY TOWERS)

PROPOSED (8) DC/FIBER LINE IN (4) 2" CONDUITS, (3) RET LINES ROUTED INSIDE MONOPOLE

PROPOSED PERMANENT ICE BRIDGE

PROPOSED AT&T 11'-5"x20'-0" EQUIPMENT SHELTER

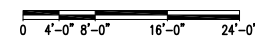
PROPOSED TEMPORARY UTILITY POLE (BY BLUE SKY TOWERS)

PROPOSED CHAIN LINK FENCE

GROUND LEVEL
ELEV.=0'-0"± (AGL)

SOUTHWEST ELEVATION
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

1
A-1



TOWER NOTES:

- 1.) TOWER ELEVATION IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO TOWER MANUFACTURER DRAWINGS FOR COMPLETE INSTALLATION AND BILL OF MATERIAL INFORMATION.
- 2.) TOWER MINIMUM DESIGN SPECIFICATIONS SHALL BE IN ACCORDANCE WITH ANSI/TIA/EIA 222-F "STRUCTURAL STANDARDS FOR SUPPORTING STRUCTURES AND ANTENNAS, REVISION F" AND GOVERNING FEDERAL, STATE, AND LOCAL CODE REQUIREMENTS
- 3.) TOWER MANUFACTURER SHALL BE RESPONSIBLE FOR DESIGN AND STRUCTURAL COMPONENTS OF THE TOWER.
- 4.) FINAL UTILITY CONNECTIONS SHALL BE COORDINATED WITH THE LOCAL UTILITIES.



BLUE SKY TOWERS, LLC
158 MAIN STREET, SUITE 2, NORFOLK, MASSACHUSETTS 02056



550 COCHITUATE RD.
FRAMINGHAM, MA, 01701



1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586



Daniel P. Hamm

LICENSED ENGINEER DATE

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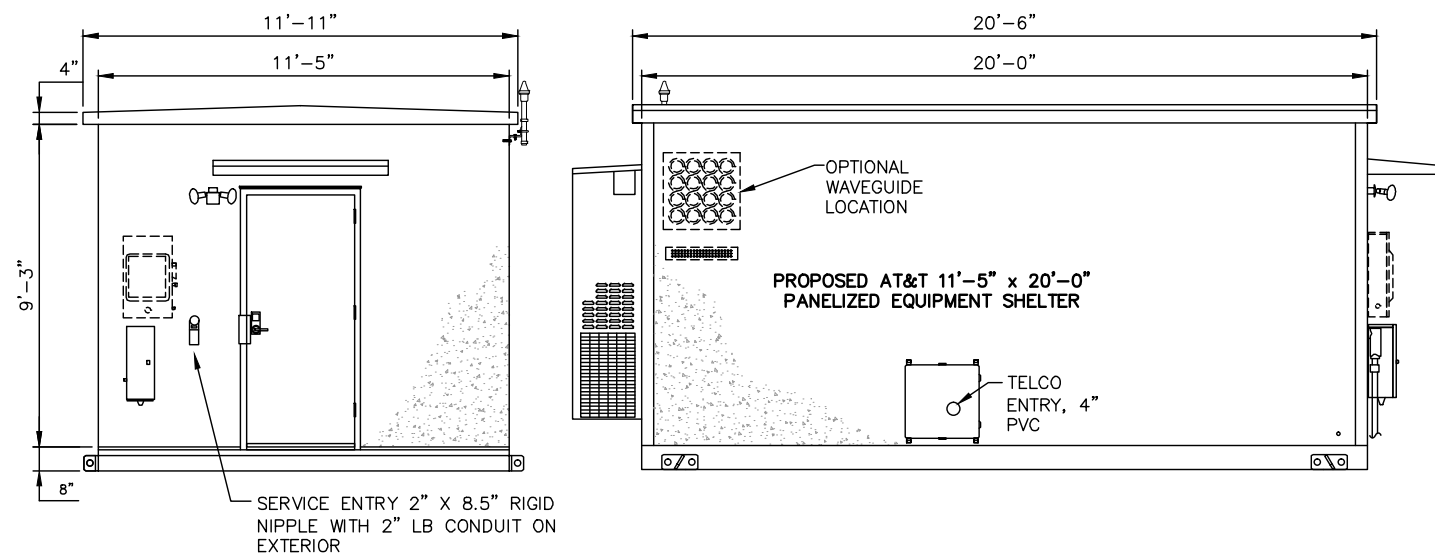
SITE NAME:
EVERGREEN STREET

SITE NUMBER:
CT5020

SITE ADDRESS:
220 EVERGREEN STREET
BRIDGEPORT, CT 06606

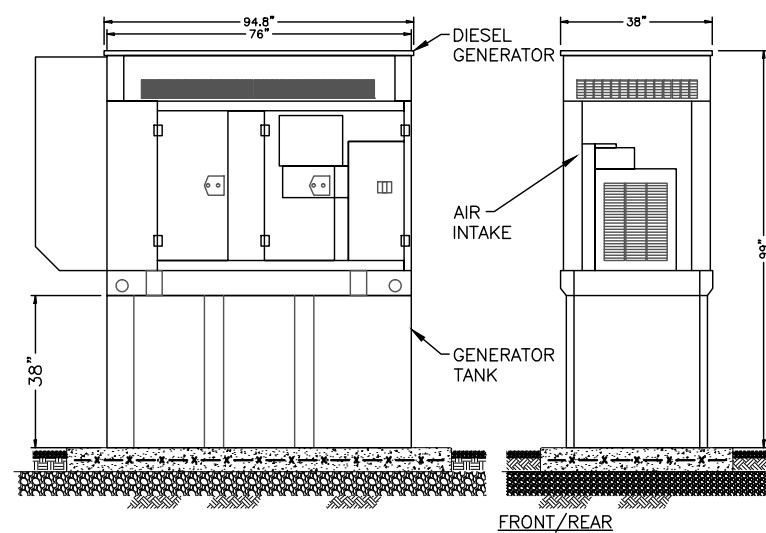
SHEET TITLE:
ELEVATION

SHEET NO:
A-1



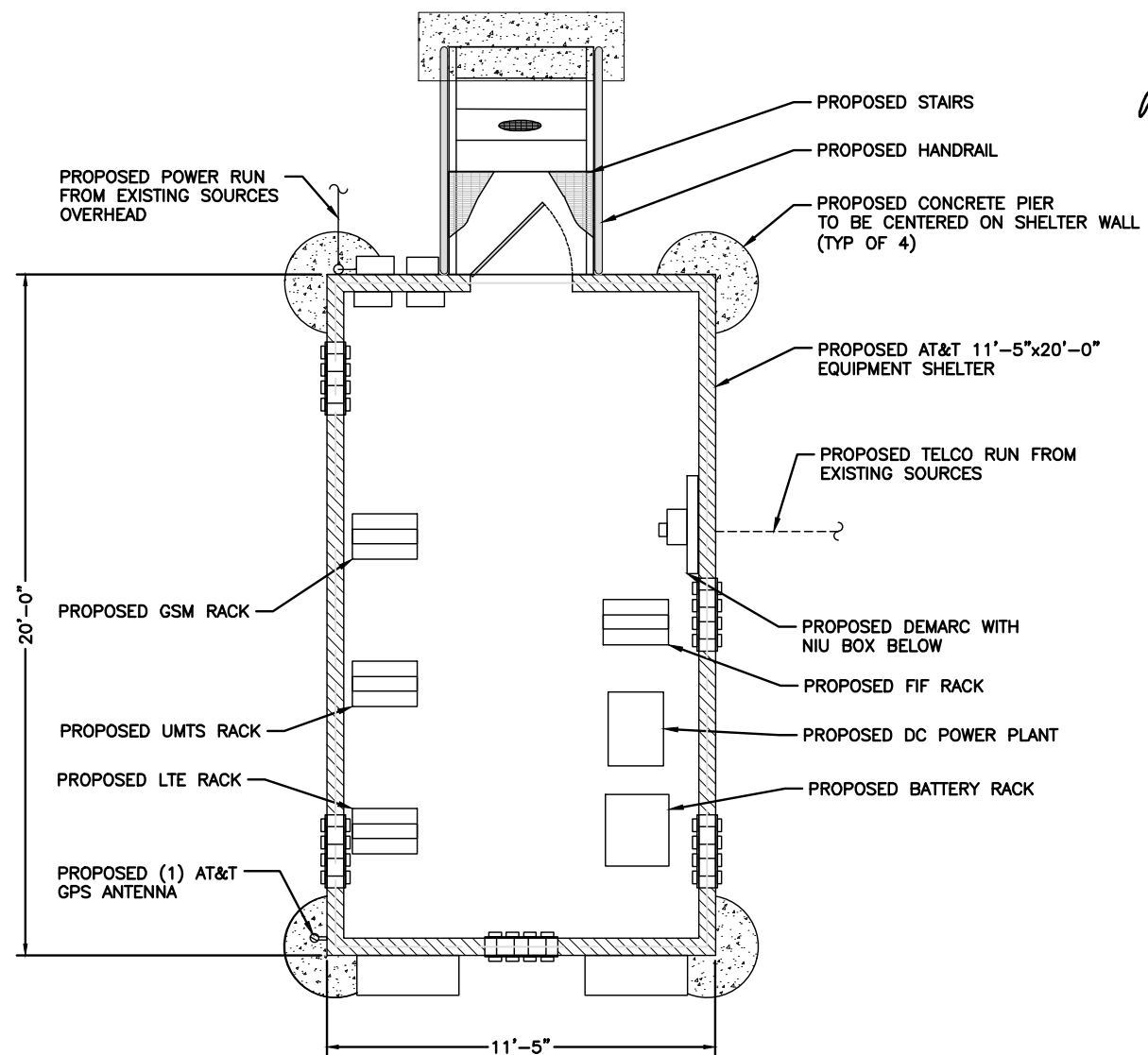
SHELTER ELEVATION DETAIL
22x34 SCALE: N.T.S

1
A-2



GENERATOR DETAIL
22x34 SCALE: N.T.S

2
A-2



PROPOSED EQUIPMENT SHELTER PLAN
22x34 SCALE: N.T.S

3
A-2

Daniel P. Hamm

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EVERGREEN STREET

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CT5020

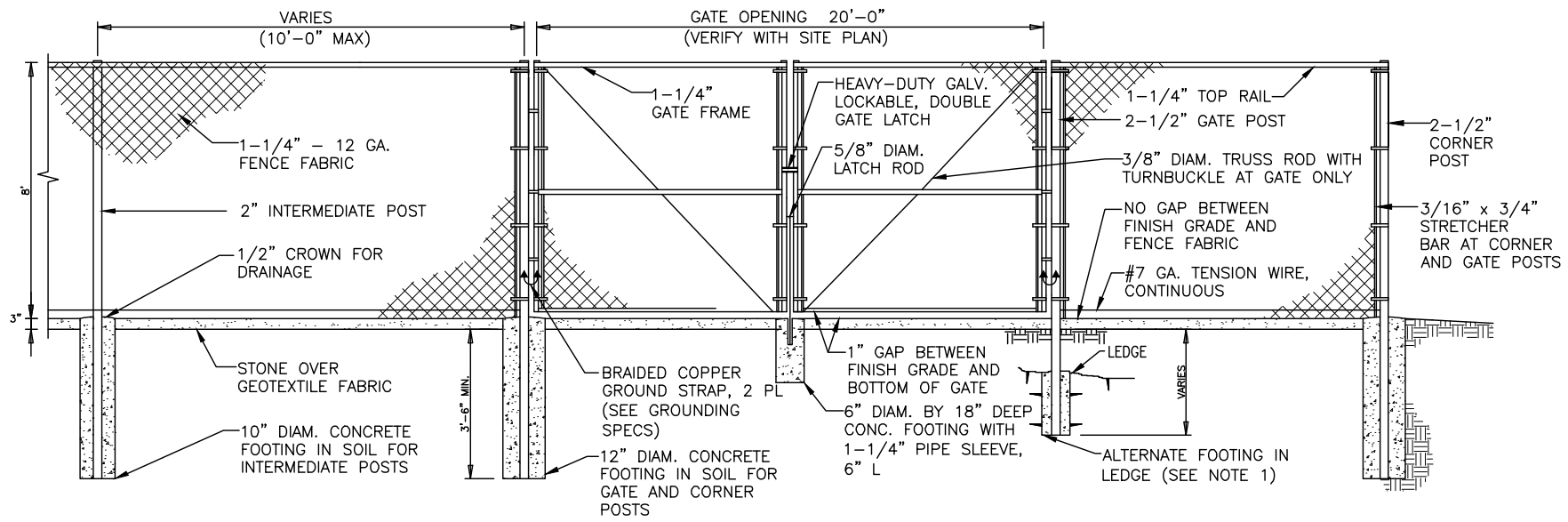
SITE ADDRESS:
220 EVERGREEN STREET
BRIDGEPORT, CT 06606

SHEET TITLE:

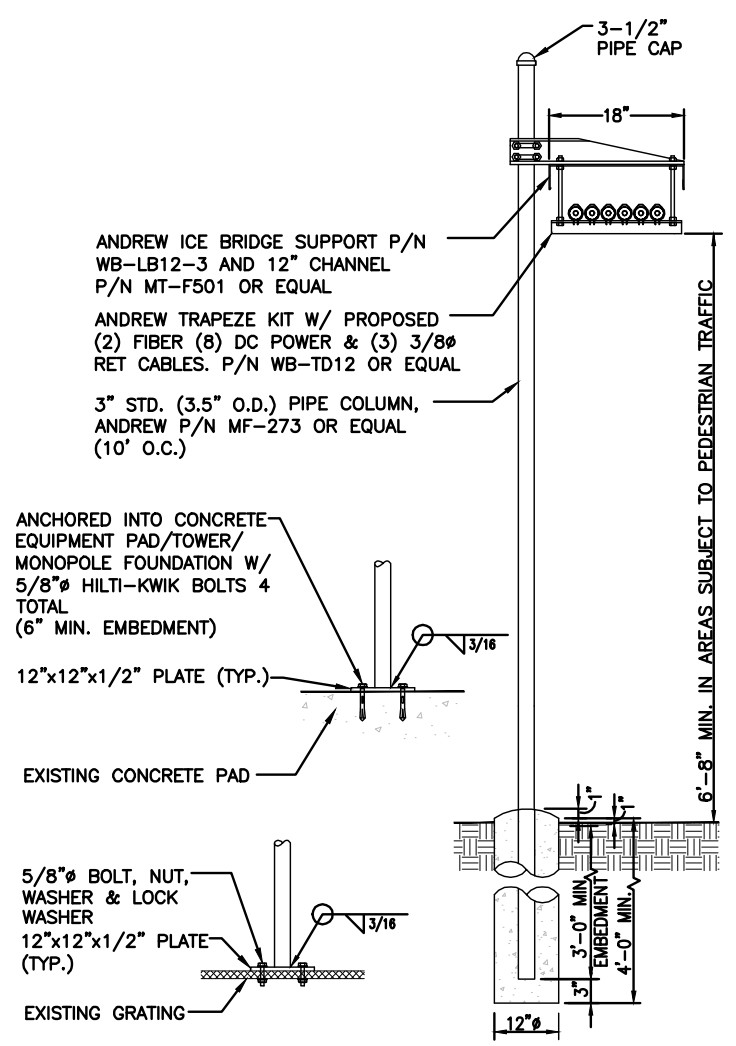
SHEET NO:
A-2

FENCE NOTES

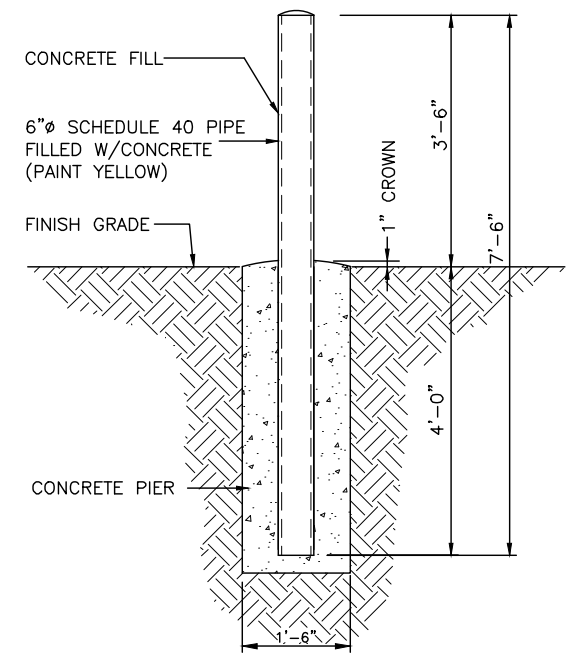
1. ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN LEDGE: IF LEDGE IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'-6", CORE DRILL AN 8" DIA HOLE 18" INTO THE LEDGE. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF LEDGE IS BELOW FINISH GRADE, COAT BACKFILLED SECTION OF POST WITH COAL TAR, AND BACKFILL WITH WELL-DRAINING GRAVEL.
2. ATTACH EACH GATE WITH 1-1/2" PAIR OF NON-LIFT-OFF TYPE, MALLEABLE IRON OR FORGING, PIN-TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 180° OF GATE TRAVEL.



CHAIN LINK FENCE DETAIL 1
22x34 SCALE: N.T.S.



ICE BRIDGE DETAIL 2
22x34 SCALE: N.T.S.



BOLLARD DETAIL 3
22x34 SCALE: N.T.S.

BlueSky Tower Partners LLC
BLUE SKY TOWERS, LLC
158 MAIN STREET, SUITE 2, NORFOLK, MASSACHUSETTS 02056

at&t
550 COCHITUATE RD.
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Hudson Design Group
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

Daniel P. Hamm
STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER
LICENSED ENGINEER DATE

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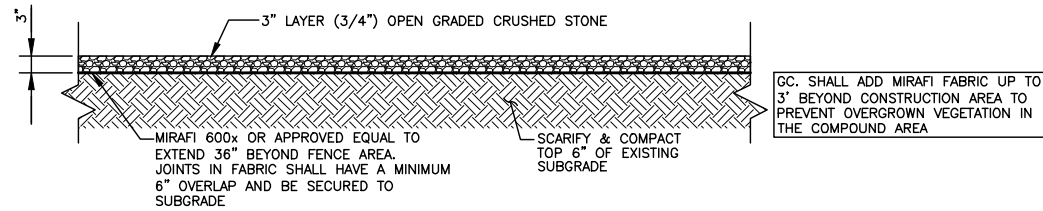
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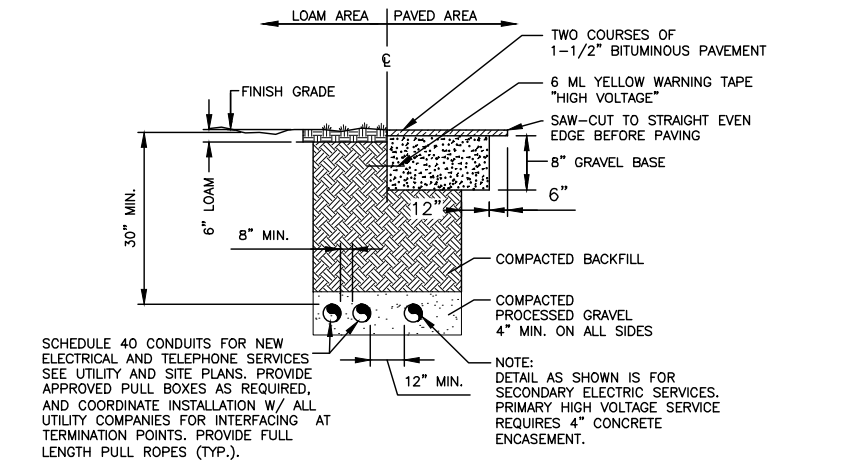
SHEET TITLE:
SITE DETAILS

SHEET NO.:
A-3



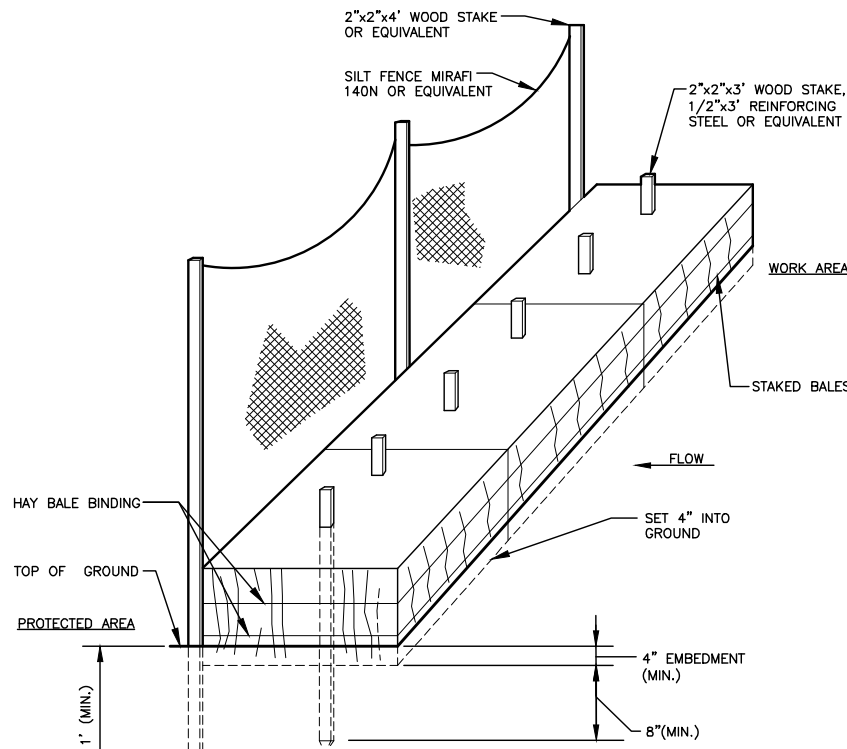
COMPOUND SURFACE DETAIL
22x34 SCALE: N.T.S

1
A-4



TYPICAL DIRECT JOINT SERVICE BURIED CONDUIT DETAIL
22x34 SCALE: N.T.S

2
A-4



HAYBALES / SILT FENCE DETAIL
22x34 SCALE: N.T.S

3
A-4

EROSION CONTROL

CONSTRUCTION SEQUENCE

- 1) NOTIFY THE TOWN INLAND WETLANDS AGENT AT LEAST ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 2) COMPLETE A "CALL BEFORE YOU DIG" PRIOR TO ANY ON SITE ACTIVITY. RECALL EVERY 30 DAYS.
- 3) CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
- 4) INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.
- 5) WOOD CHIPS GENERATED FROM CLEARING ACTIVITIES MAY BE USED AS A TEMPORARY STABILIZATION MEASURE IN ADDITION TO SILT FENCING & HAY BALES.
- 6) INSTALL HAY BALES TO "BACK UP" SILTATION FENCE ALONG ALL DOWNGRADIENT WETLANDS BOUNDARIES.
- 7) ESTABLISH ROADWAY CENTERLINE WITH GRADE STAKES AND OFF SETS.
- 8) STOCKPILE EXCAVATED SOILS A MINIMUM OF 75 FEET FROM ANY WETLAND AREA.
- 9) CONSTRUCT CLOSED DRAINAGE SYSTEM. PROTECT CULVERT INLETS WITH SEDIMENTATION BARRIERS.
- 10) ROUGH GRADE DITCH STARTING FROM THE DOWNGRADIENT LOCATION
- 11) INSTALL STONE LINING AND LEVEL SPREADERS AT CULVERT OUTLETS
- 12) STABILIZE GRADED SLOPES.
- 13) CONSTRUCT ROADWAYS AND PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION.
- 14) EXCAVATE FOR ANY SUBSURFACE UTILITIES.
- 15) STOCKPILE EXCAVATED SOILS A MINIMUM OF 75 FEET FROM ANY WETLAND AREA.
- 16) ESTABLISH SEDIMENT AND EROSION CONTROLS AROUND STOCKPILE SOILS.
- 17) INSTALL UTILITY SERVICES
- 18) INSTALL STORM DRAINAGE STARTING AT THE MOST DOWNGRADIENT LOCATION.
- 19) INSTALL ALL RIP RAP AT OUTLETS FOR STORM DRAINAGE.
- 20) INSTALL HAY BALE PROTECTION TO STORM DRAINAGE INLETS.
- 21) INSTALL ROAD
- 22) BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED OR MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION. NO AREA SHALL BE LEFT UNSTABILIZED FOR A TIME PERIOD OF MORE THAN 30 DAYS.
- 23) DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING.
- 24) BEGIN EXCAVATION FOR AND CONSTRUCTION OF TOWERS AND PLATFORMS.
- 25) FINISH PAVING ALL ROADWAYS, DRIVES, AND PARKING AREAS.
- 26) COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 27) NO FLOW SHALL BE DIVERTED TO ANY WETLANDS UNTIL A HEALTHY STAND OF GRASS HAS BEEN ESTABLISHED IN REGRADED AREAS.
- 28) AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

IMPACT OF STORMWATER DURING CONSTRUCTION ACTIVITY

ALL SEDIMENT CONTROLS, INCLUDING SILTATION FENCES AND HAY BALES MUST BE INSPECTED WEEKLY OR IMMEDIATELY AFTER A STORMWATER RUNOFF GENERATING EVENT. ALL SEDIMENT CONTROLS MUST BE MAINTAINED IN AN EFFECTIVE CONDITION.

IN THE EVENT THAT STORMWATER IS FLOWING IN THE EXISTING/PROPOSED DRAINAGE SWALE, THE FOLLOWING MUST BE NOTED:

- 1) BY INSTALLING THE STORM DRAINAGE STARTING AT THE MOST DOWNGRADIENT LOCATION, AND BY CONSTRUCTION THE DITCH STARTING AT THE MOST DOWNGRADIENT LOCATION, STORMWATER FLOW WILL NOT BE IMPOUNDED DURING THE CONSTRUCTION ACTIVITY.
- 2) ADDITIONAL MEASURES MUST BE TAKEN DURING TIMES OF RAIN OR FLOW. THESE INCLUDE THE CESSATION OF ALL CONSTRUCTION ACTIVITY IN THE DRAINAGE SWALES AT TIMES OF "HEAVY RAIN" OR "SIGNIFICANT FLOW" WHICH HAVE THE POTENTIAL TO CAUSE SOIL SCOURING. IN THE ABSENCE OF AN ON SITE AGREEMENT WITH THE TOWN INLAND WETLANDS AGENT.

CONSTRUCTION SPECIFICATIONS - SILT FENCE

- 1) THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
- 2) THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- 3) WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- 4) FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.
- 5) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.
- 6) FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
- 7) MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

MAINTENANCE - SILT FENCE

- 1) SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- 2) IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 3) SEDIMENT SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 4) SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

EROSION CONTROL MEASURES:

THE CONTRACTOR (TO BE NAMED PRIOR TO ANY WORK BEING PERFORMED) IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PLANNING AND ZONING OFFICE OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.

- 1) DISTURBED AREAS SHALL BE KEPT TO THE MINIMUM AREA NECESSARY TO CONSTRUCT THE ROADWAYS AND ASSOCIATED DRAINAGE FACILITIES.
- 2) HAY BALE BARRIERS AND SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
- 3) BALED HAY AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY. NO SALT HAY SHALL BE USED.
- 4) FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
- 5) STOCKPILED MATERIALS SHALL BE PLACED ONLY IN NON RESTRICTED WETLAND AREAS ON PLANS. STOCKPILES SHALL BE PROTECTED BY SILTATION FENCE AND SEEDED TO PREVENT EROSION. THESE MEASURES SHALL REMAIN UNTIL ALL MATERIAL HAS BEEN PLACED OR DISPOSED OFF SITE.
- 6) ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. SLOPES 2:1 OR GRATED TO BE STABILIZED WITH TURF REINFORCEMENT MAT TYPE P300P NORTH AMERICAN GREEN (1-800-772-2040), OR ENGINEER APPROVED EQUAL.
- 7) APPLICATION OF GRASS SEED, FERTILIZERS AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED BELOW:

LIMESTONE: 75-100 LBS./1,000 SQUARE FEET.
FERTILIZER: RATE RECOMMENDED BY MANUFACTURER.
MULCH: HAY MULCH APPROXIMATELY 3 TONS/ACRE UNLESS EROSION CONTROL MATTING IS USED.

SEED MIX (SLOPES LESS THAN 4:1)	LBS./ACRE
CREeping RED FESCUE	20
TALL FESCUE	20
RED TOP	2
	42

SLOPE MIX (SLOPES GREATER TAN 4:1)	LBS./ACRE
CREeping RED FESCUE	20
TALL FESCUE	20
BIRDSFOOT TREFEOL	8
	48

- 8) AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED THE PERMANENT EROSION CONTROL MEASURES ARE TO BE REMOVED.
- 9) PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 10) ALL CATCH BASIN INLETS WILL BE PROTECTED WITH LOW POINT SEDIMENTION BARRIER.
- 11) ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AND CLEANED AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- 12) ALL Dewatering OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA.
- 13) NO DISCHARGE SHALL BE DIRECTED TOWARDS ANY PROPOSED DITCHES, SWALES, OR PONDS UNTIL THEY HAVE BEEN PROPERLY STABILIZED.

CONSTRUCTION SPECIFICATIONS - STRAW OR HAY BALES

- 1) BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ADJOINING.
- 2) EACH BALE SHALL BE EMBEDDED IN THE GROUND A MINIMUM OF 4 INCHES.
- 3) BALES SHALL BE ANCHORED IN PLACE BY AT LEAST TWO STAKES DRIVEN THROUGH THE BALE. THE STAKES SHALL BE DRIVEN AT LEAST 18 INCHES INTO THE GROUND.
- 4) BARRIERS SHALL BE INSPECTED AFTER EVERY RAINFALL AND PROMPTLY REPAIRED FOR REPLACED AS NECESSARY.
- 5) BALES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED OF PROPERLY.

MAINTENANCE - STRAW OR HAY BALES

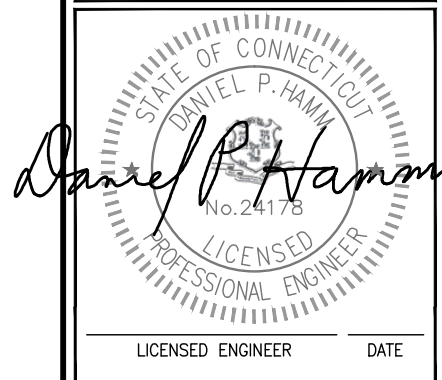
- 1) STRAW OR HAY BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- 2) CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, UNDERCUTTING BENEATH THE BALES, AND FLOW AROUND THE END OF THE BALES.
- 3) NECESSARY REPAIRS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- 4) SEDIMENT DEPOSITS SHOULD BE CHECKED AFTER EACH RAINFALL. THE DEPOSITS SHOULD BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE TABLE.
- 5) SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE BARRIER HAS BEEN DISMANTLED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED USING THE APPROPRIATE VEGETATIVE BMP.



550 COCHITUATE RD.
FRAMINGHAM, MA, 01701



1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586



REVISIONS		
REV. #	DATE	DESCRIPTION
3	11/17/15	REVISED PER COMMENTS
2	08/14/15	REVISED PER COMMENTS
1	07/20/15	REVISED PER COMMENTS
0	07/10/15	ISSUED FOR REVIEW

PROJECT NO. CT5020	DESIGNED BY: DJR DRAWN BY: SB/MC CHECKED BY: DPH	SCALE: AS SHOWN
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SITE NAME:
EVERGREEN STREET

SITE NUMBER:
CT5020

SITE ADDRESS:
220 EVERGREEN STREET
BRIDGEPORT, CT 06606

SHEET TITLE:
EROSION CONTROL NOTES AND DETAILS

SHEET NO:
A-4

1-A CERTIFICATION

Client: Blue Sky Towers, LLC
158 Main street, Suite 2,
Norfolk, MA 062056

Site Number: CT-5020
Site Name: Evergreen Street
Site Address: 220 Evergreen Street, Bridgeport, CT

Type of Survey: GPS Survey Ground Survey

Horizontal Datum: NAD83 - expressed in degrees of Latitude and Longitude
Vertical Datum: NAVD88 - expressed in feet Above Mean Sea Level (AMSL)

Structure Type:


<input type="checkbox"/> Self-Support Tower	<input checked="" type="checkbox"/> Monopole Tower	<input type="checkbox"/> Guyed Tower
<input type="checkbox"/> Wood Pole	<input type="checkbox"/> Water Tank	<input type="checkbox"/> Smoke Stack
<input type="checkbox"/> Roof Top	<input type="checkbox"/> Church Steeple	<input type="checkbox"/> Temporary Site
<input type="checkbox"/> Silo	<input type="checkbox"/> Other	

Center of Structure:

Latitude	41° 11' 52.00" N	
Longitude	73° 11' 26.49" W	

Ground Elevation:	13' (AMSL)	0' (AGL)
Top of Monopole:	148' (AMSL)	135' (AGL)
Center of Proposed AT&T Antennas:	143' (AMSL)	130' (AGL)

Certification: I certify that the latitude and the longitude are accurate to within +/- 20 feet horizontally, and that the ground elevation is accurate to within +/- 3 feet vertically. The horizontal coordinates are based upon the North American Datum of 1983 (NAD 83) and are expressed in degrees of Latitude and Longitude. The elevations are based on the North American Vertical Datum of 1988 and are expressed in feet Above Mean Sea Level (AMSL).

Signature: 
Charles G. Gidman, RPLS



Date: June 12, 2015

TOWAIR Determination Results

A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration.

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results							
PASS SLOPE(100:1): NO FAA REQ-RWY MORE THAN 10499 MTRS & 6697.67 MTRS (6.69770 KM) AWAY							
Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	41-09-25.00N	073-07-55.00W	IGOR I SIKORSKY MEMORIAL	FAIRFIELD BRIDGEPORT, CT	1.7	1451.2
PASS SLOPE(100:1)NO FAA REQ - 5848.0 Meters (19186.1 Feet)away & below slope by 15.0 Meters (49.2100 Feet)							
Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	41-09-58.00N	073-08-6.00W	IGOR I SIKORSKY MEMORIAL	FAIRFIELD BRIDGEPORT, CT	1.7	1451.2
Your Specifications							
NAD83 Coordinates							
Latitude						41-11-52.0 north	
Longitude						073-11-26.5 west	
Measurements (Meters)							
Overall Structure Height (AGL)						41.1	
Support Structure Height (AGL)						41.1	
Site Elevation (AMSL)						4	
Structure Type							
MTOWER - Monopole							

Tower Construction Notifications

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

ATTACHMENT 5

ATTACHMENT 5

ENVIRONMENTAL ASSESSMENT STATEMENT

I. PHYSICAL IMPACT

A. WATER FLOW AND QUALITY

The tower site is located on an undeveloped Parcel of property that is vacant, but used as part of Chapin & Bangs materials storage. The lease area and proposed areas of disturbance are located along the lot frontage on Evergreen Street. The location of the permanent tower site is outside of the 100 year flood zone located on the lot. There are no on-site wetlands, therefore, no direct impact to any wetlands or watercourses are anticipated as a result of the tower site construction. Storm water will be managed with Best Management Practices to be implemented during construction. (DEEP Sedimentation and Erosion Control manual 2002 and the ConnDot Drainage Manual.)

B. AIR QUALITY

Under ordinary operating conditions, the equipment that would be used at the proposed facility would emit no air pollutants of any kind. An emergency diesel fuel generator with secondary containment systems will comply with Connecticut Department of Energy and Environmental Protection ("CTDEEP") air standards for such facilities.

C. LAND

The overall area of disturbance is less than 10% of the one acre lot which is already cleared. Minimal grading will be needed to develop the permanent tower site. The remaining land of the lessor would remain

undisturbed by the construction and operation of the facility and continue to be used for materials storage.

D. NOISE

The equipment to be in operation at the facility would not emit noise other than that provided by the operation of the installed heating, air-conditioning and ventilation system. Some construction related noise would be anticipated during facility construction, which is expected to take approximately four to six weeks. Temporary power outages could involve sound from the emergency generator which would be cycled once weekly.

E. POWER DENSITY

The cumulative worst-case calculation of power density from AT&T's operations at the facility would be 3.98% of the MPE standard. Attached is a copy of a Power Density Report for the facility.

F. VISIBILITY

The attached Visibility Analysis includes an evaluation of the anticipated viewshed for the monopole tower. Potential visibility was assessed within using a computer-based, predictive view shed model that was field verified. Areas from where the proposed Facility would be visible are generally between local buildings and trees within a ¼ mile of the project site. Visibility beyond this point will be limited to brief glimpses between and/or above intervening structures. When visible, the project will be seen within the context of the existing industrial landscape. Existing manufacturing, warehousing, and commercial buildings dominate all views in this section of the City. Urban conditions including roadways, heavy traffic, overhead utility infrastructure, street lighting, road and commercial

signage and other elements of the city landscape are common visual features in this part of the City. The proposed tower is visually consistent and does not create an adverse visual impact. No schools or licensed child day care centers are located within 250' of the site.

II. SCENIC, NATURAL, HISTORIC & RECREATIONAL VALUES

The Connecticut State Historic Preservation Officer ("SHPO") and the Connecticut Department of Energy and Environmental Protection ("CTDEEP") were contacted. No direct impact to a historical or natural resource has been identified and no impacts to threatened or endangered species were identified. The site is also under evaluation in accordance with the FCC's regulations implementing the National Environmental Policy Act of 1969 ("NEPA") and no known impacts to federally recognized environmental resources are known at this time.

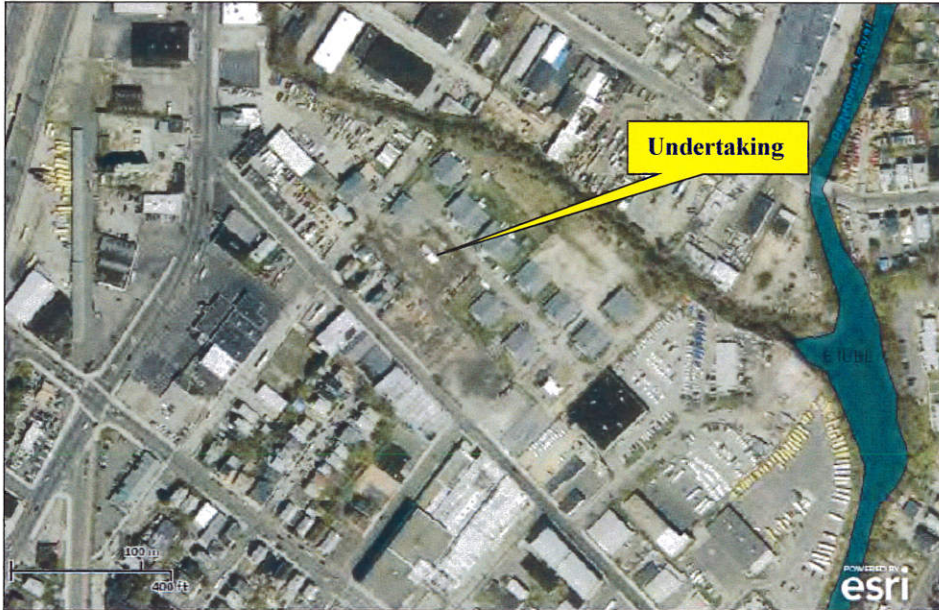
ATTACHMENT 6



U.S. Fish and Wildlife Service
National Wetlands Inventory



Jul 21, 2015



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Riparian

- Herbaceous
- Forested/Shrub

Riparian Status

- Digital Data

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

USFWS Wetland Map

Source: USFWS

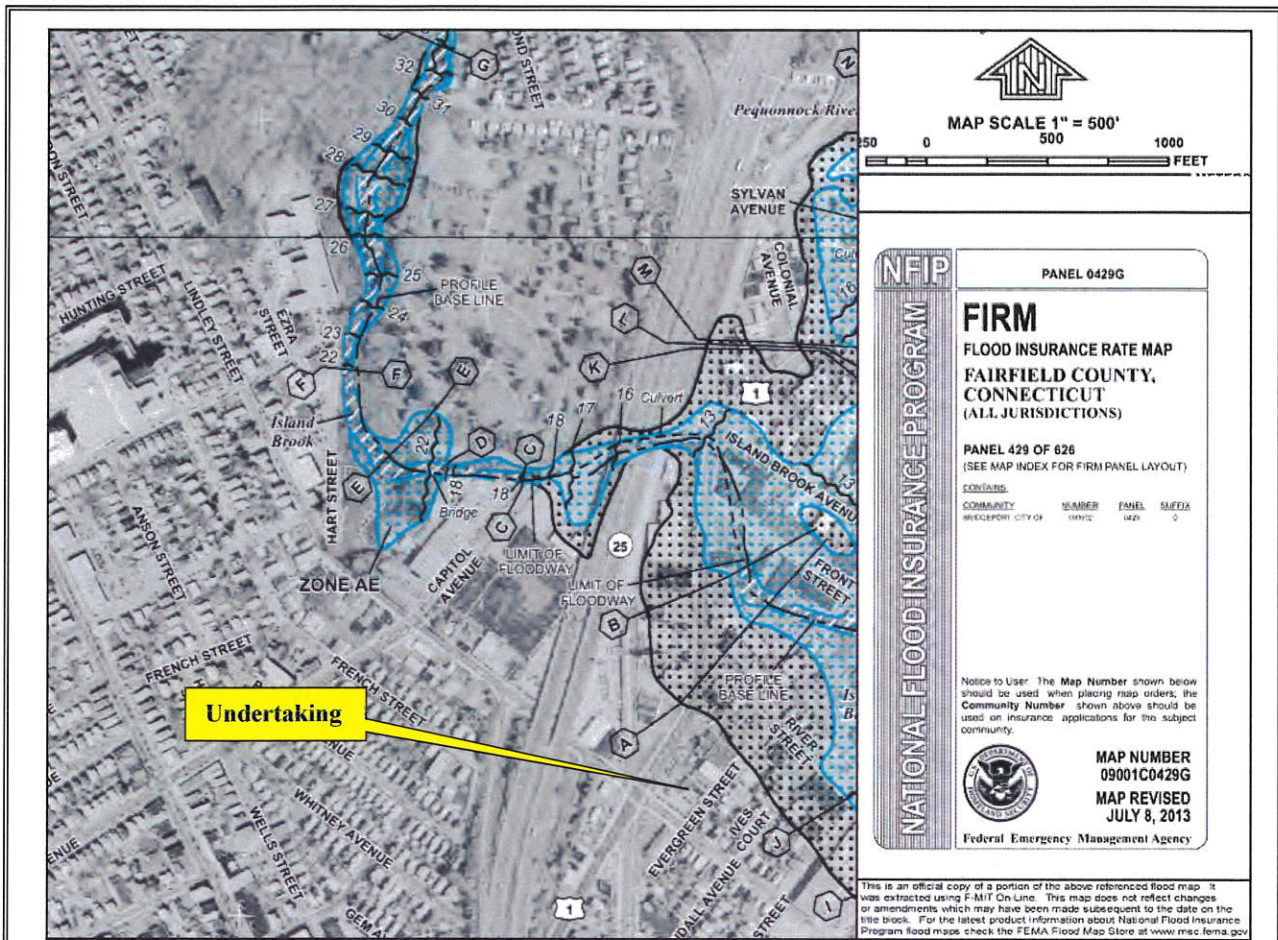
<http://www.fws.gov/wetlands/Data/Mapper.html>

Project: CT-5020 Evergreen Street
Bridgeport, CT

Project Number: TS50613952



A CBRE Company



FEMA Flood Map

Source: FEMA
<http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1&userType=G>

Project: CT-5020 Evergreen Street
 Bridgeport, CT

Project Number: TS50613952

- * Panel Not Printed – No Special Flood Hazard Areas
- ** Panel Not Printed – All Open Water



A CBRE Company

ATTACHMENT 7

Daniel L. Goulet
 C Squared Systems, LLC
 65 Dartmouth Drive
 Auburn, NH 03032
 603-644-2800
 dan.goulet@csquaredsystems.com



August 24, 2015

Connecticut Siting Council

Subject: New Cingular Wireless PCS, LLC (“AT&T”) – (CT5100) – 220 Evergreen Street, Bridgeport, CT

Dear Connecticut Siting Council:

C Squared Systems has been retained by New Cingular Wireless PCS, LLC (“AT&T”) to investigate RF Power Density levels for the AT&T antenna arrays, to be installed on the proposed monopole, to be located at 220 Evergreen Street, Bridgeport, CT

Calculations were done in accordance with FCC OET Bulletin 65. These worst-case calculations assume that all transmitters are simultaneously operating at full power and that there is 0 dB of cable loss. The calculation point is 6 feet above ground level to model the RF power density at the head of a person standing at the base of the tower.

Due to the directional nature of the proposed AT&T antennas, the majority of the RF power is focused out towards the horizon. As a result, there will be less RF power directed below the antennas relative to the horizon, and consequently lower power density levels around the base of the tower. Please refer to the Attachment for the vertical patterns of the proposed AT&T antennas. The calculated results below include a nominal 10 dB off-beam pattern loss to account for the lower relative gain directly below the antennas.

Location	Carrier	Vertical Distance to Antenna (Ft.)	Operating Frequency (MHz)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Power Density (mw/cm ²)	Limit	%MPE
Ground Level	AT&T UMTS	130	880	1	1028	0.0024	0.5867	0.41%
	AT&T UMTS	130	1900	1	1265	0.0030	1.0000	0.30%
	AT&T LTE	130	710	2	1254	0.0059	0.4733	1.24%
	AT&T LTE	130	850	1	1542	0.0036	0.5667	0.64%
	AT&T LTE	130	1900	2	1897	0.0089	1.0000	0.89%
	AT&T LTE	130	2300	1	2179	0.0051	1.0000	0.51%
Total								3.98%

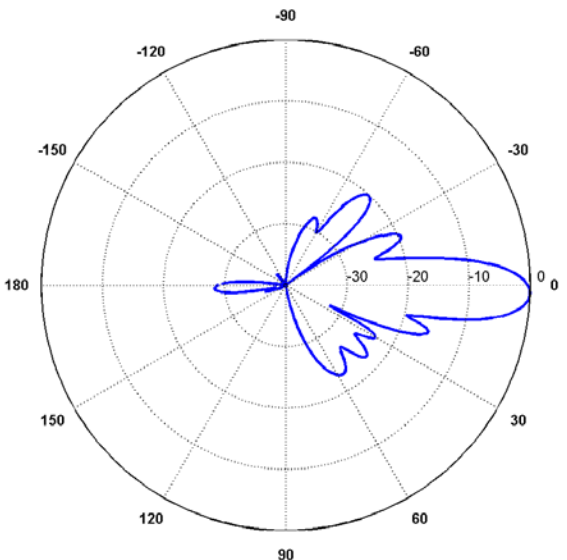
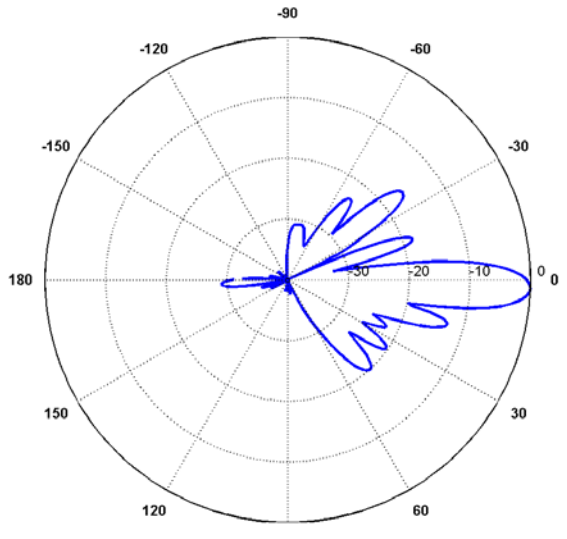
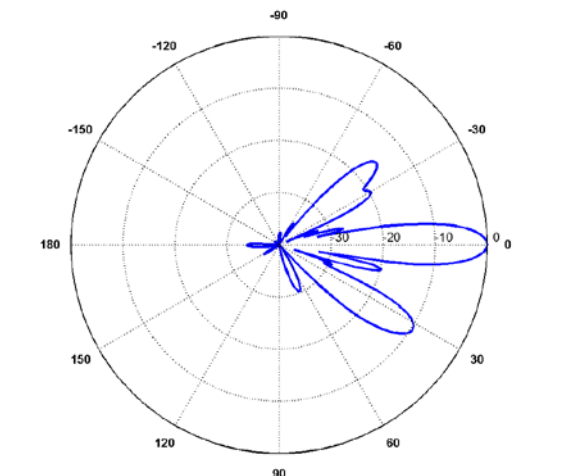
Summary: Under worst-case assumptions, RF Power Density levels for the proposed AT&T antenna arrays will not exceed 3.98%¹ of the FCC MPE limit for General Public/Uncontrolled Environments.

Sincerely,

Daniel L. Goulet
 C Squared Systems, LLC

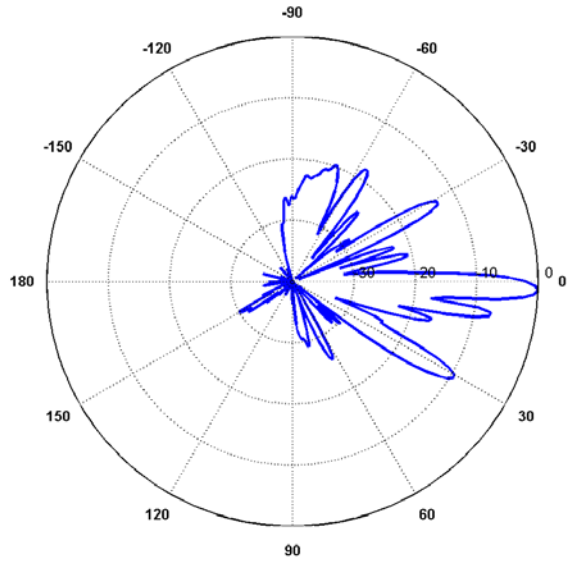
¹ The total %MPE is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

Attachment: AT&T's Antenna Data Sheets and Electrical Patterns

<p>750 MHz</p> <p>Manufacturer: CCI Products Model #: HPA-65R-BUU-H8 Frequency Band: 698-806 MHz Gain: 13.2 dBd Vertical Beamwidth: 10.1° Horizontal Beamwidth: 65° Polarization: Dual Pol ± 45° Size L x W x D: 92" x 14.8" x 7.4"</p>	
<p>850 MHz</p> <p>Manufacturer: CCI Products Model #: HPA-65R-BUU-H8 Frequency Band: 824-894 MHz Gain: 14.1 dBd Vertical Beamwidth: 8.4° Horizontal Beamwidth: 61° Polarization: Dual Pol ± 45° Size L x W x D: 92" x 14.8" x 7.4"</p>	
<p>1900 MHz</p> <p>Manufacturer: CCI Products Model #: HPA-65R-BUU-H8 Frequency Band: 1850-1990 MHz Gain: 15.0 dBd Vertical Beamwidth: 5.6° Horizontal Beamwidth: 62° Polarization: Dual Pol ± 45° Size L x W x D: 92" x 14.8" x 7.4"</p>	

2300 MHz

Manufacturer: CCI Products
Model #: HPA-65R-BUU-H8
Frequency Band: 2305-2360 MHz
Gain: 15.6 dBd
Vertical Beamwidth: 4.5°
Horizontal Beamwidth: 60°
Polarization: Dual Pol ± 45°
Size L x W x D: 92" x 14.8" x 7.4"



ATTACHMENT 8

SARATOGA ASSOCIATES

Landscape Architects, Architects,
Engineers, and Planners, P.C.

July 15, 2015

David Akerblom
Director, Project Development
IVI-Telecom Services, A CBRE Company
55 West Red Oak Lane
White Plains, NY 10604

Re: Visibility Study
CT-5020
Tower Installation
220 Evergreen Street, Bridgeport CT 06606

Dear Mr. Akerblom:

Blue Sky Towers, LLC is proposing to construct a telecommunications tower at 220 Evergreen Street, Bridgeport CT. To address issues of potential visual impact, Saratoga Associates, Landscape Architects, Architects, Engineers, and Planners, P.C. ("Saratoga") was retained to provide viewshed analysis and photographic simulations to identify and illustrate Project visibility.

The Project involves the construction of a 135 foot tall steel monopole tower with one antenna array at approximately 130 feet above grade. The monopole will be approximately 42" in diameter at the base tapering to approximately 28" in diameter at the top. The triangular antenna array will include three (3) multi-band antennas on each side (9 total) measuring approximately 15" x 8' x 92" each. The proposed tower will be constructed within an approximately 60ft x 60 foot compound located at the northwest side of the property adjacent to Evergreen Street. Ancillary equipment includes one (1) 12' x 20' x 10'-9" temporary equipment shelter. The compound will be enclosed within an eight foot-tall chain link fence. One 14" diameter Ash tree will be removed from the site. The project Site Plan is provided as Attachment A.

Mr. David Akerblom

July 15, 2015

Page 2 of 4

Viewshed Analysis - Viewshed mapping was prepared to identify the geographic area within which the proposed tower would be theoretically visible. Viewshed mapping was conducted to a radius of ½ mile from the project site. The ½ mile limit is deemed sufficient for this analysis due to the presence of dense industrial, commercial and residential structures in this urban area which effectively screen Project visibility from more distant locations.

Viewshed mapping includes the potential screening effect of existing topography, as well as existing vegetation and structures. Viewshed Maps included in Appendix B.

Global Mapper 13.0 GIS software was used to generate viewshed areas. Topographic data was derived from the National Elevation Dataset (1/3 arc second)¹. Using Global Mapper's viewshed analysis tool, the proposed tower location and height were input and a conservative offset of six feet was applied to account for the observer's eye level. The resulting viewshed identifies grid cells with a direct line-of-sight to the tower high point.

Existing forest vegetation and built structures were digitized from 1-meter resolution digital orthophotographs (2011) acquired from the USGS². The screening effect of vegetation was incorporated by adding 50 feet to digitized areas that are completely forested. Existing built structures were assumed to be 24 feet tall. Select structures that are obviously taller than 24 feet (e.g., Hi-Ho silos) were assessed at an estimated taller height.

Field Photography – Using the viewshed map as a guide, a visual analyst drove public streets and photographed existing views from multiple locations indicated by viewshed analysis to be potentially affected by the proposed project. Photographs were taken using a Nikon D3100 digital single lens reflex (“DSLR”) 14.2-mega pixel camera. The precise coordinates of each photo location were recorded in the field using a handheld global positioning system (GPS) unit. A photo log is provided as Attachment B.

Photo Simulations – A photo simulation of the proposed Project was prepared from seven (7) locations to illustrate the visual characteristics of the Project from affected areas.

Photo simulations were developed by superimposing a rendering of a three-dimensional computer model of the Project into the base photograph taken from each simulated location. The three-

¹ <http://viewer.nationalmap.gov/viewer/>

² <http://viewer.nationalmap.gov/viewer/>

Mr. David Akerblom

July 15, 2015

Page 3 of 4

dimensional computer model was developed using *3D Studio Max Design 2015*® software (3D Studio Max).

Simulated perspectives (3D model camera views) were matched to the corresponding base photograph for each simulated view by replicating the precise coordinates of the field camera position (as recorded by GPS) and the focal length of the camera lens used (e.g. 50mm). The camera's elevation (Z) value was derived from Digital Elevation Model (DEM) data plus the camera height above ground level. The camera's target position was set to match the bearing of the corresponding existing condition photograph as recorded in the field. With the existing conditions photograph displayed as a "viewport background," and the viewport properties set to match the photograph pixel dimensions, minor camera adjustments were made (horizontal and vertical positioning, and camera roll) to align the horizon in the background photograph with the corresponding features of the 3D model. To verify the camera alignment, the location and elevation of the study balloon was built into the 3D model and matched to the red balloon visible in the base photograph.

Once the camera alignment was established, the 3D Model of the proposed Project was merged into the model space. The 3D model was constructed in sufficient detail to accurately convey the proposed Project design. A daylight system was created to match the date and time of the photograph. The rendered view was then opened using *Adobe Photoshop CS2* software for post-production editing (i.e., airbrush out portion of Project that fall below foreground vegetation). Photo simulations are provided as Attachment B.

Summary of Project Visibility – The proposed Project will be visible along road axis and in between local buildings and street trees generally within ¼ mile of the project site. Although select areas of visibility will exist beyond this distance visual impact will be limited to brief glimpses between and/or above intervening structures. The proposed Project will also be visible to southbound motorists from a portion of State Route 8/25 between Chopsey Hill Road and Lindley Avenue. Opportunity for views from the northbound lanes is brief due to the direction of travel.

When visible the proposed project will be seen within the context of the existing industrial landscape. Existing manufacturing, warehousing, and commercial buildings dominate all views. Urban conditions including roadways, heavy traffic, overhead utility infrastructure, street lighting, road and commercial signage and other elements of the city landscape are common visual features. Within this setting the proposed telecommunications tower is visually consistent and does not create an adverse visual impact.

Mr. David Akerblom

July 15, 2015

Page 4 of 4

Potential Impact on Local Schools – Six (6) schools are located within a one-mile radius of the project site. These include:

- Central High School 1.0 mile
- Read School 0.52 miles
- Madison School 1.0 mile
- Luis Munoz Marin School 0.91 miles
- Maplewood Annex Elementary 0.43 miles
- Beardsley School 0.47 miles

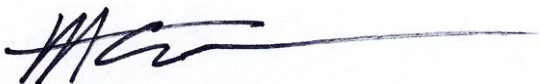
All schools were visited during field analysis. No opportunity for a view of the proposed project was identified. The location of schools within ½ mile of the project site is identified on Figure 1 of Attachment B.

If you have any questions concerning this summary report please give me a call.

Very truly yours,

SARATOGA ASSOCIATES

Landscape Architects, Architects, Engineers, and Planners, P.C.



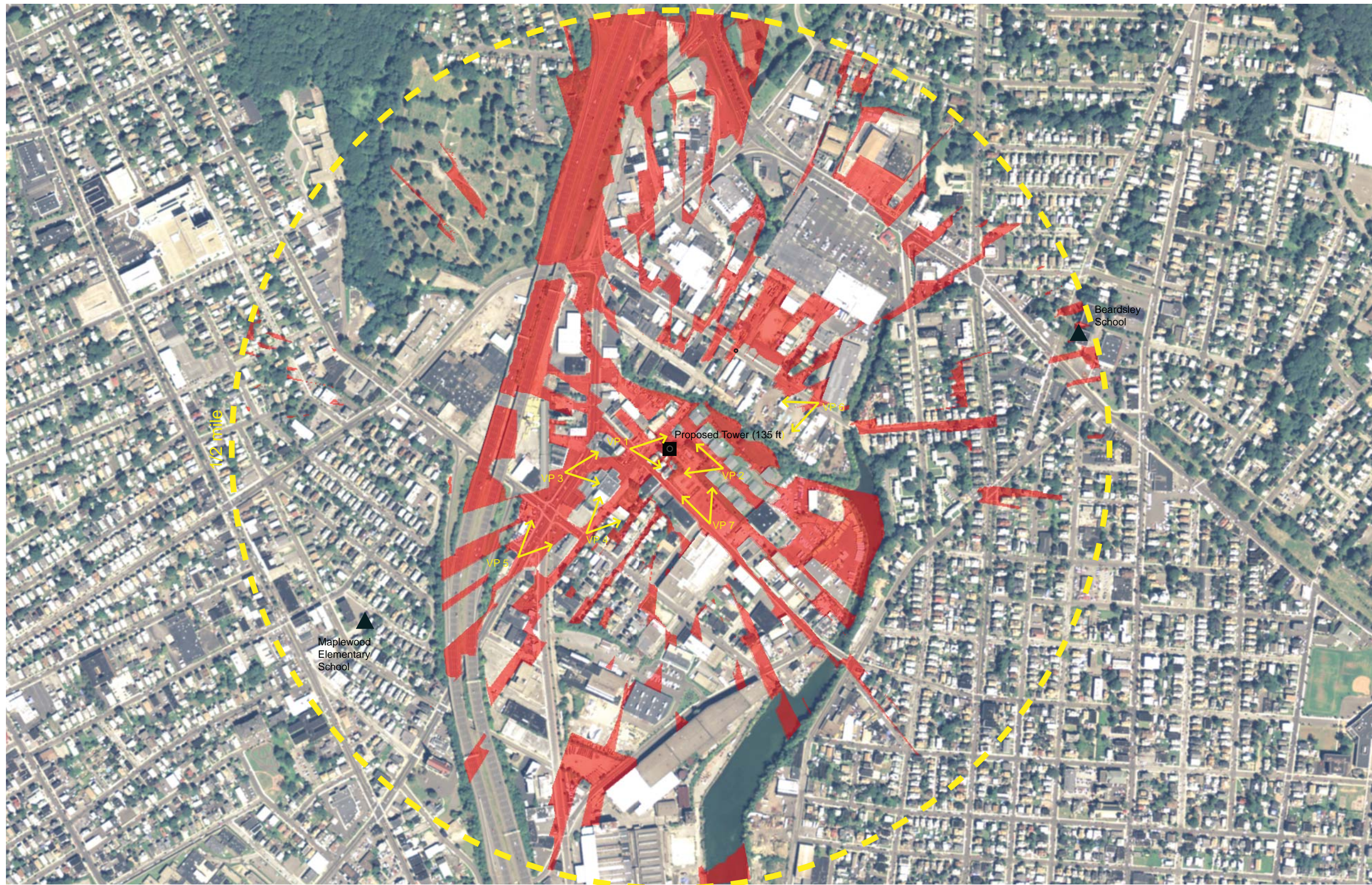
Matthew W. Allen, RLA

Principal

Enclosures: Viewshed analysis, existing condition photographs and photo simulations.

Attachment A

Attachment B



Legend

- Land Cover Viewshed Area
- Theoretical visibility including screening of existing structures and forest vegetation
- ↔ Photo Simulation Location

Note: Viewshed areas are not definitive. Viewshed mapping provides a general understanding of where the proposed project is theoretically visible.

135 ft. top of monopole
130 ft. antenna centerline

Monopole Tower

Figure 1

Land Cover Viewshed Map - 1/2 Mile Radius



Photograph Information

Date: June 17, 2015
 Time: 10:28am
 Focal Length: 28.8mm
 Camera: Nikon D3100 DLSR
 Photo
 Location: 41° 11.85368' N
 73° 11.51330' W
 Distance: 175 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 2a

Existing View
 Viewpoint 1 - Evergreen Street at River Street

SARATOGA
 ASSOCIATES

Visibility Study
 CT-5020
 MONOPOLE TOWER INSTALLATION
 220 EVERGREEN STREET
 BRIDGEPORT, CT 06606



Photograph Information

Date: June 17, 2015
 Time: 10:28am
 Focal Length: 28.8mm
 Camera: Nikon D3100 DLSR

Photo Location: 41° 11.85368' N
 73° 11.51330' W

Distance: 175 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 2b

Simulated View
 Viewpoint 1 - Evergreen Street at River Street



Photograph Information

Date: June 17, 2015
 Time: 10:34am
 Focal Length: 48mm
 Camera: Nikon D3100 DSLR

Photo Location: 41° 11.84084' N
 73° 11.39804' W

Distance: 395 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 3a

Existing View
 Viewpoint 2 - Commercial Area South of Project Property

SARATOGA
 ASSOCIATES

Visibility Study
 CT-5020
 MONOPOLE TOWER INSTALLATION
 220 EVERGREEN STREET
 BRIDGEPORT, CT 06606



Photograph Information

Date: June 17, 2015
 Time: 10:34am
 Focal Length: 48mm
 Camera: Nikon D3100 DLSR
 Photo Location: 41° 11.84084' N
 73° 11.39804' W
 Distance: 395 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 3b

Simulated View
 Viewpoint 2 - Commercial Area South of Project Property

SARATOGA
 ASSOCIATES

Visibility Study
 CT-5020
 MONOPOLE TOWER INSTALLATION
 220 EVERGREEN STREET
 BRIDGEPORT, CT 06606



Photograph Information

Date: June 17, 2015
 Time: 10:52am
 Focal Length: 48mm
 Camera: Nikon D3100 DLSR

Photo Location: 41° 11.84156' N
 73° 11.59309' W

Distance: 560 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 4a

Existing View
 Viewpoint 3 - North Avenue near NAPA Auto Parts

SARATOGA
 ASSOCIATES

Visibility Study
 CT-5020
 MONOPOLE TOWER INSTALLATION
 220 EVERGREEN STREET
 BRIDGEPORT, CT 06606



Photograph Information

Date: June 17, 2015
 Time: 10:52am
 Focal Length: 48mm
 Camera: Nikon D3100 DLSR

Photo Location: 41° 11.84156' N
 73° 11.59309' W

Distance: 560 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 4b

Simulated View
 Viewpoint 3 - North Avenue near NAPA Auto Parts

SARATOGA
 ASSOCIATES

Visibility Study
 CT-5020
 MONOPOLE TOWER INSTALLATION
 220 EVERGREEN STREET
 BRIDGEPORT, CT 06606



Photograph Information

Date: June 17, 2015
 Time: 10:56am
 Focal Length: 48mm
 Camera: Nikon D3100 DLSR

Photo Location: 41° 11.77940' N
 73° 11.57804' W

Distance: 680 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 5a

Existing View
 Viewpoint 4 - Evergreen Street at Lindley Street

SARATOGA
 ASSOCIATES

Visibility Study
 CT-5020
 MONOPOLE TOWER INSTALLATION
 220 EVERGREEN STREET
 BRIDGEPORT, CT 06606



Photograph Information

Date: June 17, 2015
 Time: 10:56am
 Focal Length: 48mm
 Camera: Nikon D3100 DLSR

Photo Location: 41° 11.77940' N
 73° 11.57804' W

Distance: 680 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 5b

Simulated View
 Viewpoint 4 - Evergreen Street at Lindley Street

SARATOGA
 ASSOCIATES

Visibility Study
 CT-5020
 MONOPOLE TOWER INSTALLATION
 220 EVERGREEN STREET
 BRIDGEPORT, CT 06606



Photograph Information

Date: June 17, 2015
 Time: 11:12am
 Focal Length: 48mm
 Camera: Nikon D3100 DLSR
 Photo Location: 41° 11.75078' N
 73° 11.66617' W
 Distance: 1,080 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 6a

Existing View
 Viewpoint 5 - North Avenue near Housatonic Street



Photograph Information

Date: June 17, 2015
 Time: 11:12am
 Focal Length: 48mm
 Camera: Nikon D3100 DLSR
 Photo Location: 41° 11.75078' N
 73° 11.66617' W
 Distance: 1,080 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 6b

Simulated View
 Viewpoint 5 - North Avenue near Housatonic Street

SARATOGA
 ASSOCIATES

Visibility Study
 CT-5020
 MONOPOLE TOWER INSTALLATION
 220 EVERGREEN STREET
 BRIDGEPORT, CT 06606



Photograph Information

Date: June 17, 2015
 Time: 12:08am
 Focal Length: 48mm
 Camera: Nikon D3100 DLSR
 Photo Location: 41° 11.90816' N
 73° 11.27175' W
 Distance: 980 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 7a

Existing View
 Viewpoint 6 - Roosevelt Street near Hill Street

SARATOGA
 ASSOCIATES

Visibility Study
 CT-5020
 MONOPOLE TOWER INSTALLATION
 220 EVERGREEN STREET
 BRIDGEPORT, CT 06606



Photograph Information

Date: June 17, 2015
 Time: 12:08am
 Focal Length: 48mm
 Camera: Nikon D3100 DSLR

Photo Location: 41° 11.90816' N
 73° 11.27175' W

Distance: 980 feet



The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 7b

Simulated View
 Viewpoint 6 - Roosevelt Street near Hill Street

SARATOGA
 ASSOCIATES

Visibility Study
 CT-5020
MONOPOLE TOWER INSTALLATION
 220 EVERGREEN STREET
 BRIDGEPORT, CT 06606



Photograph Information

Date: June 17, 2015
 Time: 12:08am
 Focal Length: 48mm
 Camera: Nikon D3100 DLSR
 Photo Location: 41° 11.78810' N
 73° 11.41658' W
 Distance: 530 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 8a

Existing View
 Viewpoint 7 - River Street near Meriam Street



Photograph Information

Date: June 17, 2015
 Time: 12:08am
 Focal Length: 48mm
 Camera: Nikon D3100 DLSR
 Photo Location: 41° 11.78810' N
 73° 11.41658' W
 Distance: 530 feet

135 ft. top of monopole
 130 ft. antenna centerline



Monopole Tower

The above photograph is intended to be viewed 18 inches from the reader's eye when printed on 11"x17" paper.

Figure 8b

Simulated View
 Viewpoint 7 - River Street near Meriam Street

ATTACHMENT 9



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

July 13, 2015

Christopher Bond
IVI Telecom Services, Inc.
4 West Red Oak Lane
White Plains, NY 10604
chris.bond@ivi-intl.com

Project: New Telecommunications Facility for AT&T CT-5020/Evergreen Street Located at 220 Evergreen Street in Bridgeport
NDDB Determination No.: 201504675

Dear Christopher Bond,

I have reviewed Natural Diversity Data Base (NDDB) maps and files regarding the area delineated on the map provided for the proposed New Telecommunications Facility for AT&T CT-5020/Evergreen Street Located at 220 Evergreen Street in Bridgeport, Connecticut. I do not anticipate negative impacts to State-listed species (RCSA Sec. 26-306) resulting from your proposed activity at the site based upon the information contained within the NDDB. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits. This determination is good for one year. Please re-submit an NDDB Request for Review if the scope of work changes or if work has not begun on this project by July 13, 2016.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at (860) 424-3592, or dawn.mckay@ct.gov . Thank you for consulting the Natural Diversity Data Base.

Sincerely,

Dawn M. McKay
Environmental Analyst 3

ATTACHMENT 10



Department of Economic and
Community Development

Connecticut
still revolutionary

September 24, 2015

David Akerblom
IVI Telecom Services, a CBRE Company
4 West Red Oak Lane
White Plains, New York 10604

Subject: Proposed Telecommunications Collocation
370 North Avenue
Bridgeport, CT
BlueSky Tower Partners LLC

Dear Mr. Akerblom:

The State Historic Preservation Office is in receipt of the proposal for the above-referenced project, submitted for review and comment pursuant to the National Historic Preservation Act and in accordance with Federal Communications Commission regulations.

The SHPO has determined that the proposed undertaking, which includes the construction of a new 135' monopole tower within an irregularly shaped lease area, will have no adverse effect on contributing resources listed on or eligible for listing on the National Register of Historic Places, with the following conditions:

1. The tower and the associated equipment will be designed and installed to be as non-visible as possible,
2. if not in use for six consecutive months, the antennas and equipment shall be removed by the telecommunications facility owner. This removal shall occur within 90 days of the end of such six-month period.

The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with the Connecticut Environmental Policy Act and Section 106 of the National Historic Preservation Act. For further information please contact Todd Levine, Environmental Reviewer, at (860) 256-2759 or todd.levine@ct.gov.

Sincerely,

Catherine Labadia
Deputy State Historic Preservation Officer

State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | Cultureandtourism.org

An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender

ATTACHMENT 11



City of Bridgeport
Zoning Department
PLANNING AND ECONOMIC DEVELOPMENT

45 Lyon Terrace • Bridgeport, Connecticut 06604
Telephone (203) 576-7217
Fax (203) 576-7213

October 15, 2015

CUDDY & FEDER, LLP
C/O CHRISTINE VERGATI, PARALEGAL
445 HAMILTON AVENUE, 14TH FLOOR
WHITE PLAINS, NEW YORK 10601

RE: 220 EVERGREEN STREET (CHAPIN & BANGS PROPERTY)

Dear Christine Vergati:

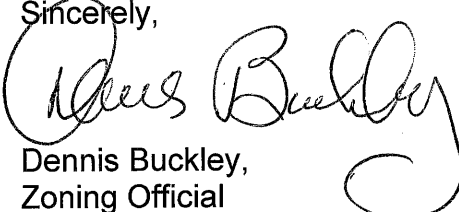
Thank you for informing the City of Bridgeport of the new location for a communications tower at the above referenced address.

After a discussion with Mr. David Kooris, Director of the Office of Planning & Economic Development (OPED), the conclusion is that since this parcel of property is located in an I-L zone, it appears to be a suitable location for this new wireless communication facility. Therefore, there is no need for the City of Bridgeport to meet and discuss any concerns with your client.

However, a Building Permit needs to be filed to ensure all construction activity is in compliance with the Basic Building Code of the State of CT.

Again, thank you for the notification.

Sincerely,



Dennis Buckley,
Zoning Official

DB/gb

August 28, 2015

VIA FEDERAL EXPRESS

Mayor Bill Finch
City of Bridgeport
Margaret E. Morton Government Center
999 Broad Street
Bridgeport, CT 06604

Re: Blue Sky Towers, LLC (“Blue Sky”) &
New Cingular Wireless PCS, LLC (“AT&T”)
Proposed Wireless Communications Tower Facility
Chapin & Bangs Property
220 Evergreen Street, Bridgeport, Connecticut

Dear Mayor Finch:

We are writing to you on behalf of Blue Sky Towers, LLC (“Blue Sky”) and New Cingular Wireless PCS, LLC (“AT&T”) with respect to the above captioned matter. BlueSky is a tower infrastructure company and AT&T is licensed by the Federal Communications Commission (“FCC”) to provide wireless services in this area of the State of Connecticut. The purpose of our letter is to formally commence a municipal consultation in accordance with state statutes.

This project involves a proposed wireless telecommunications tower facility on an industrial parcel of land owned by Chapin & Bangs and located at 220 Evergreen Street in Bridgeport (the “Site”). As you may recall from our correspondence to the Connecticut Siting Council in July, which we copied your office on, Blue Sky and AT&T are coordinating on a replacement site for a nearby existing AT&T wireless facility located at 370 North Avenue and more commonly known as the Hi Ho coal silos adjacent to Route 8. Recently, the State Siting Council approved a temporary tower facility to be located at this same Site and the companies are currently coordinating on construction. (CSC Petition No. 1169).

Enclosed you will find a detailed Technical Report for the permanent tower facility proposed for the Site. A 135’ monopole tower is proposed in a fenced compound where AT&T and other wireless carriers would operate wireless facilities to provide services to the public in this area of Bridgeport, Connecticut. The Technical Report contains detailed information on the wireless services that would be provided by a replacement tower at the Site and the various alternatives evaluated as part of the siting process. Also included are plans, a comprehensive visual report and other information on the environmental effect of the tower facility, none of which are known to be significant. Notably, the permanent facility is not much different than the temporary tower and related improvements which were recently approved by the Siting Council.

The enclosed Technical Report is being filed in accordance with Section 16-50j of the Connecticut General Statutes, which requires consultation with a municipality in which a tower

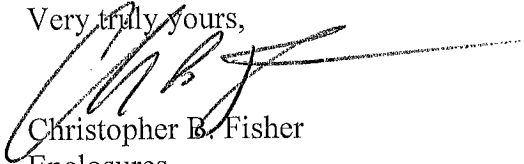
**CUDDY&
FEDER^{LLP}**

facility is proposed. State law also requires our correspondence be sent directly to your office and several municipal agencies. We've copied the Planning & Zoning Commission in this regard.

The purpose of local consultation is to give the municipality in which a facility has been proposed an opportunity to provide the prospective applicants with information it may have prior to filing of an application with the Siting Council. Because jurisdiction over any proposed cellular tower facility rests exclusively with the Connecticut Siting Council and would be in lieu of local zoning, wetlands and other types of municipal land use review and approvals, the consultation process is also intended to facilitate discussion of any municipal recommendations or siting preferences before a State application is filed. The consultation process, which lasts no more than 90 days, is typically started with a meeting with the chief elected official or their designee. As such, we will follow this letter with a telephone call to your office to coordinate should the City wish to meet with the companies as part of the consultation process.

Thank you for your consideration of this letter and its enclosures.

Very truly yours,



Christopher B. Fisher

Enclosures

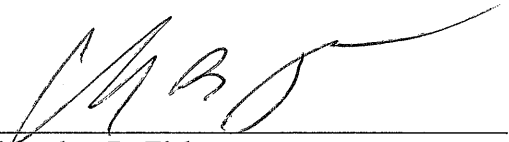
- Cc: City Planning & Zoning Commission
City Historic District Commission No. 1 (acting as Conservation Commission)
City Inland Wetlands Commission
Sean Gormley
Keith Coppins
Dan Balzeikian

ATTACHMENT 12

CERTIFICATION OF SERVICE

I hereby certify that on the 18 of November 2015, a copy of the foregoing letter and notice were mailed by certified mail, return receipt requested to each of the abutting properties owners on the accompanying list.

11/18/15
Date



Christopher B. Fisher
Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, New York 10601

Attorneys for:
Blue Sky Towers LLC (“Blue Sky”); And
New Cingular Wireless PCS, LLC (AT&T)

ADJACENT PROPERTY OWNERS
220 Evergreen Street

Westlund-Krasenics Properties LLC. 221 Evergreen Street Bridgeport, CT 06606	Howard L. Johnson 219 Evergreen Street Bridgeport, CT 06606
Anthony Arduini 312 River Street Bridgeport, CT 06606	City of Bridgeport 45 Lyon Terrace Bridgeport, CT 06604
Maria C & Julio C. Guzman 292 River St Bridgeport, CT 06604	Estate of Sarina Charris & Victor P Charris 274 River Street Bridgeport, CT 06604
Porfirio Dacruz ET AL 272 River Street Bridgeport, CT 06604	River Street Properties Inc. 261 River Street Bridgeport, CT 06604
Chapin & Bangs Company P.O. Box 1117 Bridgeport, CT 06601	

November 18, 2015

**VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Re: Blue Sky Towers, LLC (“Blue Sky”) and New Cingular Wireless PCS, LLC (“AT&T”)
Proposed Wireless Telecommunications Tower Facility
220 Evergreen Street, Bridgeport, Connecticut

Dear Sir or Madam:

We are writing to you on behalf of our clients Blue Sky Tower, LLC (“Blue Sky”) and New Cingular Wireless PCS, LLC (“AT&T”) with respect to the above referenced matter and our client’s intent to file an application with the State of Connecticut Siting Council for approval of a wireless communications tower facility (the “Facility”) within the City of Bridgeport.

State law requires that record owners of property abutting a parcel on which a facility is proposed be sent notice of an applicant’s intent to file an application with the Siting Council.

Included with this letter please find a Notice with details of the proposed Facility and the Applicants’ intent to file an application with the State. Of note, the location, height and other features of the Facility are subject to review and potential change by the Connecticut Siting Council under the provisions of Connecticut General Statutes §16-50g et seq.

If you have any questions concerning this application, please contact the Connecticut Siting Council or the undersigned after December 2, 2015, the date which the application is expected to be on file.

Very truly yours,

Christopher B. Fisher
Enclosure

NOTICE

Notice is hereby given, pursuant to Section 16-50l(b) of the Connecticut General Statutes and Section 16-50l-1(e) of the Regulations of Connecticut State Agencies of an Application to be filed with the Connecticut Siting Council (“Siting Council”) on or after December 1, 2015 by Blue Sky Towers, LLC and New Cingular Wireless PCS, LLC (the “Applicants”) for a certificate of environmental compatibility and public need for the construction and maintenance of a wireless telecommunications tower facility in Bridgeport, Connecticut.

A replacement tower is being proposed by the Applicants to replace service that is currently being provided by a temporary tower at 220 Evergreen Street, which was approved in Petition 1169 by the Connecticut Siting Council. The temporary tower was approved as an interim measure due to the decommissioning of AT&T’s existing Facility located at 370 North Avenue (“HI HO Facility”). The replacement tower facility is proposed on property located at 220 Evergreen Street in Bridgeport. The proposed facility consists of a 135-foot tall self-supporting monopole tower and a 3,617.5 square foot tower compound along the parcel’s frontage on Evergreen Street. AT&T would install up to twelve (12) panel antennas and related equipment at a centerline height of 130’ above grade level (AGL) on the tower. A permanent 12’ x 20’ unmanned equipment shelter would be installed together with a back-up power generator in the compound. The proposed tower and equipment compound will be enclosed by an eight (8) foot tall fence. The compound and tower will be designed to accommodate space for two other carriers. Vehicular access to the facility will be provided from Evergreen Street over an existing access drive.

The location, height and other features of the Facility are subject to review and potential change under provisions of the Connecticut General Statutes Sections 16-50g et. seq. The Facility is being proposed to allow AT&T to continue wireless services in this area of the State from the site to be decommissioned and in place of the temporary tower. The Application will explain the need, purpose and benefits of the Facility and also describe the environmental effects of the proposed Facility. The Facility will be available for co-location by other wireless carriers.

A balloon, representative of the height of the proposed Facility, will be flown at the proposed site on the first day of the Siting Council public hearing on the Application, or such other date specified by the Siting Council and a time to be determined by the Siting Council, but anticipated to be between the hours of 12pm and 5pm.

Interested parties and residents are invited to review the Application during normal business hours after December 2, 2015 at any of the following offices:

Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

City of Bridgeport
Alma L Maya, City Clerk
45 Lyon Terrace
Bridgeport, CT 06604

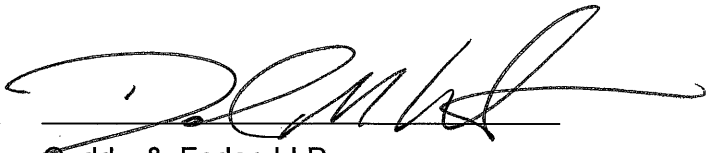
or the offices of the undersigned. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Hamilton Ave, 14th Floor
White Plains, New York 10601
(914) 761-1300
Attorneys for the Applicants

ATTACHMENT 13

CERTIFICATION OF SERVICE

I hereby certify that on the 2nd day of December 2015, copies of Blue Sky and AT&T's Application and Attachments for a Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance and Operation of a Wireless Telecommunications Facility were sent by certified mail, return receipt requested, to the list below:

Dated: 12/2/15 _____ 

Cuddy & Feder LLP
 45 Hamilton Avenue, 14th Floor
 White Plains, New York 10601
 Attorneys for :
 Blue Sky Towers LLC ("Blue Sky"); And
 New Cingular Wireless PCS, LLC (AT&T)

State and Regional

The Honorable George Jepsen Attorney General Office of the Attorney General 55 Elm Street Hartford, CT 06106	Department of Economic and Community Development Catherine Smith, Commissioner 505 Hudson Street Hartford, CT 06106
Department of Public Health Dr. Jewel Mullen, Commissioner 410 Capitol Avenue P.O. Box 340308 Hartford, CT 06134	Department of Energy and Environmental Protection Public Utilities Regulatory Authority Chairman Arthur House Ten Franklin Square New Britain, CT 06051
Council on Environmental Quality Executive Director Karl J. Wagener 79 Elm Street Hartford, CT 06106	Department of Transportation James P. Redeker, Commissioner 2800 Berlin Turnpike Newington, CT 06111

<p>Department of Energy & Environmental Protection Rob Klee, Commissioner 79 Elm Street Hartford, CT 06106</p>	<p>Department of Agriculture Steven K. Reviczky, Commissioner 165 Capitol Avenue Hartford, CT 06106</p>
<p>Office of Policy and Management Benjamin Barnes, Secretary 450 Capitol Avenue Hartford, CT 06106</p>	<p>State House Representative - 128th Assembly District Christopher Rosario Legislative Office Building Room 5006 Hartford, CT 06106</p>
<p>Department of Emergency Services & Public Protection Division of Emergency Management and Homeland Security William Shea, Deputy Commissioner 25 Sigourney Street, 6th Floor Hartford, CT 06106-5042</p>	<p>State Senator - 23rd District Edwin Gomes Legislative Office Building Room 3800 Hartford, CT 06106</p>
<p>Department of Economic and Community Development-Offices of Culture and Tourism Daniel Forrest, State Historic Preservation Officer One Constitution Plaza, 2nd Floor Hartford, CT 06103</p>	<p>Greater Bridgeport Regional Council Bridgeport Transportation Center Brian Bidolli - Executive Director 525 Water Street Bridgeport, CT 06604</p>
<p>Department of Economic and Community Development-Offices of Culture and Tourism Todd Levine, State Historic Preservation Officer, Historian/Environmental Reviewer One Constitution Plaza, 2nd Floor Hartford, CT 06103</p>	

Federal

Federal Communications Commission 445 12 th Street SW Washington, D.C. 20554	Federal Aviation Administration 800 Independence Avenue, SW Washington, DC 20591
U.S. Congressman Jim Himes 211 State Street, 2 nd Floor Bridgeport, CT 06604	U.S. Senator Richard Blumenthal 90 State House Square, 10th Floor Hartford, CT 06103
U.S. Senator Christopher Murphy One Constitution Plaza, 7 th Floor Hartford, CT 06103	

City of Bridgeport

Bill Finch, Mayor Office of Mayor City of Bridgeport Margaret E. Morton Government Center 999 Broad Street Bridgeport, CT 06604	Melville Riley, Jr., Chair Planning & Zoning Commission 45 Lyon Terrace Bridgeport, CT 06604
Fleeta C. Hudson City Clerk City Hall Room 204 45 Lyon Terrace Bridgeport, CT 06604	Dennis Buckley, Zoning Administrator Zoning Department Room 210 City Hall 45 Lyon Terrace Bridgeport, CT 06604
David Kooris, Dir. Of Planning and Economic Development 999 Broad Street Bridgeport, CT 06604	William E. Minor, LUCR Director Land Use Construction Review 45 Lyon Terrace, Room 212 Bridgeport, CT 06604
Melville T. Riley, Jr., Acting Chair Inland Wetland Commission 45 Lyon Terrace Bridgeport, CT 06604	

ATTACHMENT 14

Application Guideline	Location in Application
(A) An Executive Summary on the first page of the application with the address, proposed height, and type of tower being proposed. A map showing the location of the proposed site should accompany the description;	1.B: Executive Summary, page 1 Attachment 3: Description and Design of Proposed Facility
(B) A brief description of the proposed facility, including the proposed locations and heights of each of the various proposed sites of the facility, including all candidates referred to in the application;	1.B: Executive Summary, page 1 4.C: Facility Design: page 13
(C) A statement of the purpose for which the application is made;	1.A: Purpose and Authority, page 1
(D) A statement describing the statutory authority for such application;	1.A: Purpose and Authority, page 1
(E) The exact legal name of each person seeking the authorization or relief and the address or principle place of business of each such person. If any applicant is a corporation, trust, or other organized group, it shall also give the state under the laws of which it was created or organized;	1.C: The Applicant, page 4-5
(F) The name, title, address, and telephone number of the attorney or other person to whom correspondence or communications in regard to the application are to be addressed. Notice, orders, and other papers may be served upon the person so named, and such service shall be deemed to be service upon the applicant;	1.C: The Applicant, page 4-5
(G) A statement of the need for the proposed facility with as much specific information as is practicable to demonstrate the need including a description of the proposed system and how the proposed facility would eliminate or alleviate any existing deficiency or limitation;	3.A: Statement of Need, page 6 Attachment 1: Statement of Need with Report
(H) A statement of the benefits expected from the proposed facility with as much specific information as is practicable;	3.B: Statement of Benefits, page 11
(I) A description of the proposed facility at the proposed prime and alternative sites including: <ol style="list-style-type: none"> (1) Height of the tower and its associated antennas including a maximum "not to exceed height" for the facility, which may be higher than the height proposed by the Applicant; (2) Access roads and utility services; (3) Special design features; (4) Type, size, and number of transmitters and receivers, as well as the signal frequency and conservative worst-case and estimated operational level approximation of electro magnetic radiofrequency power density levels (facility using FCC Office of Engineering and Technology Bulletin 65, August 1997) at the base of the tower base, site compound boundary where persons are likely to be exposed to maximum power densities from the facility; (5) A map showing any fixed facilities with which the proposed facility would interact; (6) The coverage signal strength, and integration of the proposed facility with any adjacent fixed facility, to be accompanied by multi-colored propagation maps of red, green and yellow (exact colors may differ depending on computer modeling used, but a legend is required to explain each color used) showing interfaces with any adjacent service areas, including a map scale and north arrows; and (7) For cellular systems, a forecast of when maximum capability would be reached for the proposed facility and for facilities that would be integrated with the proposed facility. 	1.B. Executive Summary, page 1 4.C: Facility Design, page 13 Attachments 3 and 4: Description and Design of Proposed Facility Attachment 5: Environmental Assessment 6.C: Power Density, page 16, Attachment 7 Attachment 1: Statement of Need with Report Attachment 1: Statement of Need with Report
(J) A description of the named sites, including : <ol style="list-style-type: none"> (1) The most recent U.S.G.S. topographic quadrangle map (scale 1 inch = 2000 feet) marked to show the site of the facility and any significant 	Attachments 3 and 4: Description and Design of Proposed Facility

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<p>changes within a one mile radius of the site;</p> <p>(2) A map (scale not less than 1 inch = 200 feet) of the lot or tract on which the facility is proposed to be located showing the acreage and dimensions of such site, the name and location of adjoining public roads or the nearest public road, and the names of abutting owners and the portions of their lands abutting the site;</p> <p>(3) A site plan (scale not less than 1 inch = 40 feet) showing the proposed facility, set back radius, existing and proposed contour elevations, 100 year flood zones, waterways, and all associated equipment and structures on the site;</p> <p>(4) Where relevant, a terrain profile showing the proposed facility and access road with existing and proposed grades; and</p> <p>(5) The most recent aerial photograph (scale not less than 1 inch = 1000 feet) showing the proposed site, access roads, and all abutting properties.</p>	Attachment 8: Visibility Analysis Report
<p>(K) A statement explaining mitigation measures for the proposed facility including:</p> <p>(1) Construction techniques designed to specifically minimize adverse effects on natural areas and sensitive areas;</p> <p>(2) Special design features made specifically to avoid or minimize adverse effects on natural areas and sensitive areas, including but not limited to a yield point, if applicable;</p> <p>(3) Establishment of vegetation proposed near residential, recreation, and scenic areas; and</p> <p>(4) Methods for preservation of vegetation for wildlife habitat and screening; and</p> <p>(5) Other environmental concerns identified by the applicant, the Council, or any public agency, including but not limited to, where applicable: Coastal Consistency Analysis, Connecticut Heritage Areas, Ridgeline Protection Zones, DOT Scenic Lands, State Parks and Forests, Agricultural Lands, Wild and Scenic Rivers, Protected Rivers, Endangered, Threatened or Special Concern Species</p>	<p>Attachments 3 and 4: Description and Design of Proposed Facility</p> <p>Attachment 5: Environmental Assessment</p> <p>6: Environmental Effects, page 15-17</p> <p>Attachments 6, 9, 10</p>
<p>(L) A description of the proposed site and any alternative sites, including the zoning classification, planned land uses and surrounding areas;</p>	7.C.: Planned and Existing Land Uses, page 18
<p>(M) A description of the scenic, natural, historic, and recreational characteristics of the proposed sites and any alternative sites and surrounding areas including but not limited to officially designated nearby hiking trails, nature preserves and scenic roads;</p>	<p>6: Environmental Effects, page 15-17</p> <p>Attachment 5: Environmental Assessment</p> <p>Attachments 8: Visibility Analysis Report</p>
<p>(N) Visibility Analyses of the proposed site area and any alternative site areas including, but not limited to:</p> <p>(1) A viewshed analysis consisting of a two-mile radius from visually impacted areas such as residential developments, recreational areas, and historic sites;</p> <p>(2) Photographic documentation;</p> <p>(3) Balloon float photographs;</p> <p>(4) Photographic simulations in "leaf-on" and "leaf-off" conditions, where possible, and;</p> <p>(5) If proposed in close proximity to a shoreline, including lakes and rivers, photographic documentation from open waters, where possible.</p> <p>(N-a) An affidavit for each balloon float conducted at the proposed site and any alternative sites including the date, time and demonstrated height.</p>	<p>Attachment 8: Visibility Analysis Report</p> <p>6.A. Visual Assessment, page 15</p>
<p>(O) A list describing the type and height of all existing and proposed towers and facilities within a four mile radius within the site search area,</p>	Attachment 2: Existing Facilities List

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or within any other area from which use of the proposed towers might be feasible from a location standpoint for purposes of the application;	
(P) A description of efforts to share existing towers, including but not limited to installations on electric transmission poles, or to consolidate telecommunications antennas of public and private services onto the proposed facility including efforts to offer tower space, where feasible, at no charge for space for municipal antennas;	1.B: Executive Summary, page 1 4.A: Site Selection, page 13 4.B: Tower Sharing, page 13 5: Facility Design, page 13 Attachment 2: Site Search Summary
(Q) A description of the technological alternatives and a statement containing justification for the proposed facility;	3.C: Technological Alternatives, page 12 Attachment 1: Statement of Need with Report
(R) A description of rejected sites with a U.S.G.S. topographic quadrangle map (scale 1 inch = 2,000 feet) marked to show the location of rejected sites;	4.A: Site Selection, page 13 Attachment 2: Site Search Summary
(S) A detailed description and justification for the site(s) selected, including a description of siting criteria and the narrowing process by which other possible sites were considered and eliminated, including, but not limited to, environmental effects, cost differential, coverage lost or gained, potential interference with other facilities, and signal loss due to geographical features compared to the proposed site(s);	4.A: Site Selection, page 13 Attachment 2: Site Search Summary
(T) A statement describing hazards to human health, if any, with such supporting data including signal frequency, power density and references to regulatory standards;	6: Environmental Effects, page 15-17
(U) A statement of estimated costs for site acquisition, construction, and equipment for a facility at the various proposed sites of the facility, including all candidates referred to in the application;	9.A: Overall Estimated Cost, page 19
(V) A schedule showing the proposed program of site acquisition, construction, completion, operation and relocation or removal of existing facilities for the named sites;	9.B: Overall Scheduling, page 20
(W) A statement indicating that, weather permitting, the applicant will raise a balloon with a diameter of at least three feet, at the sites of the various proposed sites of the facility, including all candidates referred to in the application, on the day of the Council's first hearing session on the application or at a time otherwise specified by the Council. For the convenience of the public, this event shall be publicly noticed at least 30 days prior to the hearing on the application as scheduled by the Council; An affidavit of the balloon float conducted on the day of the first hearing session including the date, time, demonstrated height and weather condition shall be filed with the Council as soon as is practicable; and	6.A: Visual Assessment, page 15
(X) Such information as any department or agency of the state exercising environmental controls may, by regulation, require including: 1. A listing of any Federal, State, regional, district, and municipal agencies, including but not limited to the Federal Aviation Administration; Federal Communications Commission; State Historic Preservation Officer; State Department of Environmental Protection; and local conservation, inland wetland, and planning and zoning commissions with which reviews were conducted concerning the facility, including a copy of any agency	6: Environmental Effects, page 15-17 Attachment 9: CTDEEP Correspondence 7: Consistency with City of Bridgeport's Land Use Regulations, page 17-18

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<p>position or decision with respect to the facility; and</p> <p>2. The most recent conservation, inland wetland, zoning, and plan of development documents of the municipality, including a description of the zoning classification of the site and surrounding areas, and a narrative summary of the consistency of the project with the Town's regulations and plans.</p>	Bulk Filing
<p>(Y) Description of proposed site clearing for access road and compound including type of vegetation scheduled for removal and quantity of trees greater than six inches diameter at breast height and involvement with wetlands;</p>	<p>5: Facility Design, page 13</p> <p>Attachments 3 and 4</p>
<p>(Z) Such information as the applicant may consider relevant.</p>	Attachment 1-Petition 1169 Decision for the Temporary Tower