

To: All Planning Board Members,
From: Michael and Teresa Ronhock

December 24, 2018

There are many reasons why this project (Blue Sky Tower wireless cell tower proposal for Red Brook Rd) should be rejected by the Planning Board a few of these reasons are outlined below:

- 1) **Alternative Project –** An alternative project exists that is superior to the Blue Sky proposal financially, technically and from a public safety perspective. The Blue Sky tower proposal would be a net loss financially to the Town of Mashpee, unfairly burdening all local taxpayers and abutters while a Norfolk based private equity firm profits handsomely. A New Seabury based outdoor distributed antenna system (ODAS) is a technically superior project as it is scalable to address both coverage and capacity and would be able to address the coverage gaps the Blue-Sky proposal does not. From a public safety perspective, the ODAS proposal can be deployed almost immediately, potentially saving lives. New Seabury has self-determination under Architectural Review Committee (ARC) guidelines and can install an ODAS with minimal municipal approvals. In fact, a previous New Seabury antenna proposal was deemed by the CCC to be completely legal without encumbrances and approval completely under the authority of the ARC.
- 2) **Financial Burden to Taxpayers –** An analysis has shown the Blue-Sky Towers proposal to be a net loss financially to the Town of Mashpee. The revenue projections provided by Blue Sky Towers for rent paid to the Town of Mashpee are target projections and not substantiated by any actual lease agreement provided to the Town of Mashpee. This happens in concert with lower property tax revenues from property abutters who will have a lower tax bill, a negative impact on property value the Blue-Sky proposal creates. Furthermore, the Town of Mashpee could be liable for damages and legal fees if they approve the Blue-Sky Tower proposal. Effected property owners could seek relief from the Town of Mashpee.
- 3) **Mobile Carrier Responsibilities –** Mobile carriers are required by law to provide coverage and comply with local building and zoning laws. While the Blue Sky proposal does not fully comply with either law, the New Seabury ODAS project does. While the New Seabury ODAS project would cost more, all costs associated with the project would be 100% borne by the mobile carriers. The Blue Sky proposal unfairly burdens all Mashpee taxpayers whereas the New Seabury ODAS project would not burden any Mashpee taxpayer and ensure mobile carriers pay all project related costs.
- 4) **Valid Reason for Rejection -** The Telecommunications Act of 1996 specifically leaves in place the authority that local zoning authorities have over the placement of personal wireless facilities. It requires that denials be based on a reasoned approach. A common, reasoned approach for denial is based on failing to use existing structures and infrastructure within the general service area of the proposed tower that could be used in lieu of a new tower. Such structures do indeed exist for an alternative, viable project and serve as a legal basis for denial.
- 5) **Emergency Radio Repeater –** Claims of needing the Blue Sky proposed tower for an emergency services radio repeater are false and misleading. Mashpee emergency services have had the legal authority to place a repeater or repeaters in coverage gaps. A 150-foot tower is not necessary to bring service to the coverage gaps they claim to exist. No proposals have been put to Town Meeting to revamp the current repeater system. to our knowledge..
- 6) **This project is not within the Wireless Overlay District and cannot be permitted under these guidelines.**

129 North Hillcrest Boulevard Unit 4
Inglewood, California 90301-5451
May 29, 2018

Mr. Evan R. Lehrer, Town Planner
Town of Mashpee
16 Great Neck Road North
Mashpee, Massachusetts 02649

Via e-mail to elehrer@mashpeema.gov


Dear Sir:

It has come to our attention by post and through conversation with our neighbors about the application to build a personal wireless service facility at 101 Red Brook Road, Mashpee, MA 02649. As we will be unable to attend the meeting scheduled for June 6, 2018, we submit this letter to lodge our objection.

Since receiving this news we have done some research regarding the proximity of such a facility to our property and to the inhabitants in close proximity and find for health reasons, including electromagnetic health issues, it is not suitable. Above all, we try to live in an environment that is hazard free, pollution free and as aesthetically natural as possible. This proposal, we believe, would have a negative effect on all of these and more, including a decrease in property value.

Surely the Town of Mashpee can find a more suitable location for the cell phone tower. There are commercial areas where such a facility can be installed, such as the two industrial parks in Mashpee or near the town dump. We respectfully ask that you seek out a different location.

Should a vote be taken at the Mashpee Planning Board meeting regarding this said proposal - we vote No!

Sincerely,

Jerilyn O. Collier Davis
and

Freda K. Byron-Twyman
Property owners of 102 Blue Castle Drive, Mashpee

Letter also mailed to above addressee
Certified Mail Receipt No. 7014 2120 0000 8312 4081

Patricia Maguffin

From: Evan Lehrer
Sent: Monday, May 13, 2019 9:21 AM
To: Patricia Maguffin
Subject: FW: [Town of Mashpee MA] PROPOSED CELL TOWER LOCATION (Sent by ROBERT COLEMAN, CCWORLDS@AOL.COM)

-----Original Message-----

From: cmsmailer@civicplus.com [mailto:cmsmailer@civicplus.com]
Sent: Sunday, May 12, 2019 5:09 PM
To: Evan Lehrer <ELehrer@mashpeeema.gov>
Subject: [Town of Mashpee MA] PROPOSED CELL TOWER LOCATION (Sent by ROBERT COLEMAN, CCWORLDS@AOL.COM)

Hello elehrer,

ROBERT COLEMAN (CCWORLDS@AOL.COM) has sent you a message via your contact form (<https://www.mashpeeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeeema.gov/user/2793/edit>.

Message:

EVAN LEHRER- My name is Robert Coleman and I have resided at 87 Old Great Neck Road for the past 45 years. I am not in favor of the proposed cell tower location adjacent to the South Mashpee Fire Dept on Red Brook Road. I have attended all the meetings subsequent to the Town Meeting vote last year. I am not convinced nor do I believe most of the arguments presented by the proponents and developers for this cell tower location. First and foremost I believe that the will of the voters and the opposition to this proposed location should be respected. Upon hearing the comment by a Board member after the Town vote, stating in effect that the Town would go ahead irregardless of the vote outcome is very troubling to me and many others.

There are various other options and locations available as presented in the past meetings that I have attended. I am forwarding this correspondence to your office to be read at the May 15 meeting because it is likely that I will not be able to attend. REGARDS- ROBERT COLEMAN

Patricia Maguffin

From: Evan Lehrer
Sent: Monday, May 13, 2019 9:21 AM
To: Patricia Maguffin
Subject: FW: [Town of Mashpee MA] Cell Tower (Sent by Wendy & Dan Pennini, wpennini@comcast.net)

-----Original Message-----

From: cmsmailer@civicplus.com [mailto:cmsmailer@civicplus.com]
Sent: Sunday, May 12, 2019 9:51 AM
To: Evan Lehrer <ELehrer@mashpeema.gov>
Subject: [Town of Mashpee MA] Cell Tower (Sent by Wendy & Dan Pennini, wpennini@comcast.net)

Hello elehrer,

Wendy & Dan Pennini (wpennini@comcast.net) has sent you a message via your contact form (<https://www.mashpeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeema.gov/user/2793/edit>.

Message:

Good Morning,

We both, Wendy Pennini and Daniel Pennini are opposed to the Cell Tower that is being considered in town.

There are many reasons.

Property values (we don't live in that area), eye sore, not enough coverage to warrant it being placed there, long term health effects it may have.

Please consider not putting it there.

Sincerely,

Wendy & Daniel Pennini

48 Autumn Drive

Patricia Maguffin

From: Evan Lehrer
Sent: Wednesday, May 15, 2019 10:47 AM
To: Patricia Maguffin
Subject: FW: [Town of Mashpee MA] Proposed Cell Tower (Sent by Donna and Steve Gallagher, dgallagher63@comcast.net)

-----Original Message-----

From: cmsmailer@civicplus.com [mailto:cmsmailer@civicplus.com]
Sent: Monday, May 13, 2019 3:48 PM
To: Evan Lehrer <ELehrer@mashpeema.gov>
Subject: [Town of Mashpee MA] Proposed Cell Tower (Sent by Donna and Steve Gallagher, dgallagher63@comcast.net)

Hello elehrer,

Donna and Steve Gallagher (dgallagher63@comcast.net) has sent you a message via your contact form (<https://www.mashpeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeema.gov/user/2793/edit>.

Message:

Dear Planning Board,

We are writing in opposition to the proposed tower off Red Brook Rd. This tower is too close to a residential neighborhood which will result in the decrease of their property values. To move forward with this proposal will only set a precedent of even more lax zoning in other residential areas of our town. Please consider voting NO with the thoughts of researching the best possible place for this tower that will provide maximum coverage for those who need it.

Thank You,

Donna and Steve Gallagher
27 Tradewind Dr
Mashpee, Ma. 02649

Patricia Maguffin

From: Evan Lehrer
Sent: Wednesday, May 15, 2019 10:48 AM
To: Patricia Maguffin
Subject: FW: [Town of Mashpee MA] Cell Tower - oppose (Sent by Joan Ford, Joanacford@omcast.net)

-----Original Message-----

From: cmsmailer@civicplus.com [mailto:cmsmailer@civicplus.com]
Sent: Monday, May 13, 2019 12:20 PM
To: Evan Lehrer <ELehrer@mashpeema.gov>
Subject: [Town of Mashpee MA] Cell Tower - oppose (Sent by Joan Ford, Joanacford@omcast.net)

Hello elehrer,

Joan Ford (Joanacford@omcast.net) has sent you a message via your contact form (<https://www.mashpeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeema.gov/user/2793/edit>.

Message:

Dear Evan Lerer,

As a property owner on Lisa Lane in Mashpee, I am stating my opposition to the proposed new cell tower location near the fire station on Red Brook Road.

As you are the aware, the site does not meet all the coverage needs of Pomponesett and New Seabury areas. Logically, it makes more sense to build a tower in the New Seabury section of town because that is where coverage is the issue.

If a cell tower lowers property values, why lower my property value in an effort to help the rich stay richer. The area that needs the service should be the willing landlord. If not, then they should forgo cell service.

The public continues to speak out in opposition of the cell tower project, and you have already officially heard NO from town committees.

I do not want to look at a cell tower instead of the beautiful tree lined skyline that I currently see. The birds and wildlife in the area will not benefit from the project. Please vote in opposition of a cell tower near the Red Brook fire station.

Thank you, in advance, for voting for the people of Mashpee.

Joan Ford

Patricia Maguffin

From: Evan Lehrer
Sent: Wednesday, May 15, 2019 10:48 AM
To: Patricia Maguffin
Subject: FW: [Town of Mashpee MA] Proposed cell tower (Sent by Michael Sliwa, ma.sliwa.hic@hotmail.com)

-----Original Message-----

From: cmsmailer@civicplus.com [mailto:cmsmailer@civicplus.com]
Sent: Tuesday, May 14, 2019 2:40 PM
To: Evan Lehrer <ELehrer@mashpeema.gov>
Subject: [Town of Mashpee MA] Proposed cell tower (Sent by Michael Sliwa, ma.sliwa.hic@hotmail.com)

Hello elehrer,

Michael Sliwa (ma.sliwa.hic@hotmail.com) has sent you a message via your contact form (<https://www.mashpeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeema.gov/user/2793/edit>.

Message:

Planning board members; my name is Michael Sliwa, my wife Ana and I live at and own the property at 94 RedBrook Rd. We also own the property at 100 RedBrook Rd. We are very much opposed to this project for many reasons and I know you've heard them all at the meetings. Mashpee is a great town to live in and one of the things that makes it special is its open space. When you let one company start to develop it pretty soon others follow and another piece of open space is gone for good. I hope you seriously consider the consequences this project may have. Thank you for your service to the town.

From: cmsmailer@civicplus.com <cmsmailer@civicplus.com> on behalf of Contact form at Town of Mashpee MA <cmsmailer@civicplus.com>
Sent: Sunday, May 5, 2019 9:04:30 PM
To: Evan Lehrer
Subject: [Town of Mashpee MA] Cell Tower (Sent by Barbara Allen, barbaraallen@hotmail.com)

Hello elehrer,

Barbara Allen (barbaraallen@hotmail.com) has sent you a message via your contact form (<https://www.mashpeeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeeema.gov/user/2793/edit>.

Message:

Dear Evan,

As a homeowner at 20 Barnacle Ln in Seabrook Village for the past 13 years, I am writing to state my objection to having a cell tower erected near the Red Brook Fire Station. The proximity to my property will decrease not only my home value, but that of my neighbors. Studies have shown that cell towers are needed in the location of the need, not in an adjacent location. If New Seabury needs cell service, then they should find a location in the middle of their property. Those with the need will get the best service and have their home values affected. This is a clear cost/benefit that has a lose/lose to those near the fire station and a win/win to those in New Seabury. How nice for them to get all the benefits while they retain their home values. That is not fair and equitable government.

I cannot speak for everyone, but I don't have a cell phone problem (AND I pay for a land line for 911, just in case). We should not be negatively impacted by someone else's need. Please put the tower somewhere else, if anywhere at all. The voters already voted NO. Please adhere to that message.

Thank you,
Barbara Allen

From: Jody Bergeron <jody.bergeron@comcast.net>
Sent: Sunday, May 5, 2019 10:14:18 PM
To: Evan Lehrer
Subject: Cell Phone Tower

To: Mashpee Planning Board Members

I have attended several meetings regarding the cell tower proposal. There seems to be a lack of transparency on the details regarding this issue. I do not feel a residential neighborhood is an appropriate place for a cell tower. I just recently viewed on CBS news the placement of a cell tower near an elementary school and several of the children have come down with cancer. As the mother of a 5 year old I have concerns over the health effects of this tower and the possible health effects it could have on myself and my son. As a single parent I have just invested a significant amount of my savings into my new home here in Mashpee and I am also concerned about the value of my home being affected by this cell tower.

Thank You,

Jody Bergeron
2 Lisa Lane
Mashpee, MA 02649

From: Lisa <lisap1967@gmail.com>
Sent: Sunday, May 5, 2019 5:59:49 PM
To: Evan Lehrer
Subject: Cell Tower on Red Brook Road

Good Day

I live at 74 Red Brook Road in Mashpee and I am not in favor of the cell tower being erected on this road. Not only will it affect my property value but there are health concerns and the fact that it is not zoned for this. I understand the lack of coverage that New Seabury faces, as I face it too. We have voted against this tower previously. I think our voices should be heard and not ignored. I moved back to Mashpee after being away for 10 years. I saved for years to be able to buy my home here for my son and I. To have our health and my investment threatened for something so unnecessary as cell phones is terrible.

Thank you for your attention.

Lisa Pasquali

From: cmsmailer@civicplus.com <cmsmailer@civicplus.com> on behalf of Contact form at Town of Mashpee MA <cmsmailer@civicplus.com>
Sent: Monday, May 6, 2019 7:04:17 AM
To: Evan Lehrer
Subject: [Town of Mashpee MA] Cell Tower Oppostion (Sent by John Halpin, johnhalpin63@gmail.com)

Hello elehrer,

John Halpin (johnhalpin63@gmail.com) has sent you a message via your contact form (<https://www.mashpeeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeeema.gov/user/2793/edit>.

Message:

Dear Evan Lehrer,

As a Mashpee property owner I kindly ask you to note my opposition to the proposed cell tower for Red Brook Road.

My concerns are due to:

Cell Phone Tower Exposure

We are exposed to 100 million times more electromagnetic radiation than our grandparents were, and part of the reason is radiation from cell phone towers and microwave antennas.

Human population centers are flooded with massive amounts of powerful wireless microwave radiation. Cell phone towers emit high-frequency radio waves, or microwaves, that can travel as far as 45 miles over level terrain. The closer you are, the greater the danger.

Negative Health Effects

The microwaves from cell phone towers can interfere with your body's own EMFs, causing a variety of potential health problems, including:

- Headaches

- Memory loss
- Cardiovascular stress
- Low sperm count
- Birth defects
- Cancer

Cell towers (or cell sites) that hold antennas and other communications equipment flood the area for miles around with powerful high frequency radio waves (known as microwaves) to support the use of cellphones as well as Wi-Fi, WiMax, Wireless LANs, 802.11 networks, Bluetooth supported devices and more.

Cell tower microwaves might travel for as few as two miles in hilly areas, and up to 45 miles where there are fewer obstructions; and of course, they easily penetrate brick and metal

Mobile towers - Sometimes installed on the tops of buildings. Mobile towers are especially dangerous because they emit microwaves at a frequency of 1900 MHz. Recent studies have shown that the intense radioactivity from mobile phone towers adversely impacts every biological organism within one square kilometer.

Cellphone tower microwaves have a significantly higher frequency than even radio waves. The higher the frequency, the more powerful the wave—and the more powerful effect on biological organisms (recall that a mobile tower emit microwaves at 1900 MHz).

Thank you for reading this email.

Regards,

John W. Halpin
44 Lisa Lane
Mashpee, MA 02649

johnhalpin63@gmail.com

From: cmsmailer@civicplus.com <cmsmailer@civicplus.com> on behalf of Contact form at Town of Mashpee MA <cmsmailer@civicplus.com>
Sent: Monday, May 6, 2019 4:44:14 AM
To: Evan Lehrer
Subject: [Town of Mashpee MA] Tower (Sent by David cofran, Kcofran@comcast.net)

Hello elehrer,

David cofran (Kcofran@comcast.net) has sent you a message via your contact form (<https://www.mashpeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeema.gov/user/2793/edit>.

Message:

We don't need tower off red brook. Put it where it's needed most. New sea bury.

From: cmsmailer@civicplus.com <cmsmailer@civicplus.com> on behalf of Contact form at Town of Mashpee MA <cmsmailer@civicplus.com>
Sent: Monday, May 6, 2019 7:53:34 AM
To: Evan Lehrer
Subject: [Town of Mashpee MA] Redbrook Road cell tower location (Sent by Peter & Laraine Michaelson, rae-c@comcast.net)

Hello elehrer,

Peter & Laraine Michaelson (rae-c@comcast.net) has sent you a message via your contact form (<https://www.mashpeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeema.gov/user/2793/edit>.

Message:

Dear Mr. Lehrer,
As a direct abutter of the proposed Blue Sky Tower location on Redbrook Road we would ask that you hear our pleas to vote no on this location as it will directly affect our home and land property values and will be an eyesore to our neighborhood. Please honor the town meeting vote of the people of Mashpee and have the applicant find another location to address the needs of the people of New Seabury and Popponesett with a more appropriate site.
Thank you,
Peter & Laraine Michaelson

Patricia Maguffin

From: Evan Lehrer
Sent: Tuesday, May 07, 2019 10:49 AM
To: Patricia Maguffin
Subject: Fwd: [Town of Mashpee MA] Cell tower behind Degrass Rd (Sent by Alexander Slavin, abs1111@verizon.net)

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From: cmsmailer@civicplus.com <cmsmailer@civicplus.com> on behalf of Contact form at Town of Mashpee MA <cmsmailer@civicplus.com>
Sent: Monday, May 6, 2019 9:40:09 PM
To: Evan Lehrer
Subject: [Town of Mashpee MA] Cell tower behind Degrass Rd (Sent by Alexander Slavin, abs1111@verizon.net)

Hello elehrer,

Alexander Slavin (abs1111@verizon.net) has sent you a message via your contact form (<https://www.mashpeeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeeema.gov/user/2793/edit>.

Message:

Hello Mr. Lehrer;

We own a property at 86 Degrass Rd in Mashpee and we strongly oppose construction of a cell tower behind Degrass Rd. Because of the close proximity to our property this tower will negatively impact the value of our property.

Additionally it presents a health hazard which has been proven by numerous studies.

Regards,
Alexander & Bella Slavin

May 8, 2019

Dear Madam Chairperson and members of the Board;

We are John and Jane Kelch, residing at 40 Lisa Dr. Mashpee for forty-seven years and we are writing to you regarding the proposed installation of a new cell tower at Site Station # 2 on Red Brook Road.

We have attended several meetings concerning this issue and there remain many concerns and questions as to why this would be an optimal location. New Seabury and Pappooseet would still be left without coverage in certain areas.

It seems very logical to us that the residents of the neglected areas would be better served if the tower were positioned to serve these areas as well.

And there is no question in our minds that a cell tower in a residential area will affect sales of homes in that area. Our three daughters with children would never consider purchasing a home near such a cell tower. At the last meeting we were told by a paid outside advocate of the project that it does not affect the sales of homes. We have also been told that research claims there are no health risks, but that is questionable and

long-term health risks cannot be determined.
We are ^{writing} to voice our opposition, and
to implore the Massapee Planning Board
to strongly encourage Blue Sky Tower
to seek an alternative site.

Thank you for your attention to this
matter and we ~~remain~~ ^{remain} available for further
comment.

Sincerely,
Jan D. Lohr, Jr.
Jane N. Lohr

Patricia Maguffin

From: Evan Lehrer
Sent: Wednesday, May 15, 2019 10:47 AM
To: Patricia Maguffin
Subject: FW: [Town of Mashpee MA] cell tower (Sent by Diane Scannell, dsbsd@comcast.net)

-----Original Message-----

From: cmsmailer@civicplus.com [mailto:cmsmailer@civicplus.com]
Sent: Monday, May 13, 2019 3:29 PM
To: Evan Lehrer <ELehrer@mashpeema.gov>
Subject: [Town of Mashpee MA] cell tower (Sent by Diane Scannell, dsbsd@comcast.net)

Hello elehrer,

Diane Scannell (dsbsd@comcast.net) has sent you a message via your contact form (<https://www.mashpeema.gov/user/2793/contact>) at Town of Mashpee MA.

If you don't want to receive such e-mails, you can change your settings at <https://www.mashpeema.gov/user/2793/edit>.

Message:

Hello,

On May 9, 2019 I sent in a letter with a packet containing 23 articles that support concerns I have with living next to a cell tower.

I spoke of and submitted articles covering concerns such as noise, vibration, odor, smoke, flying debris, fires, collapsing towers and rf guidelines being exceeded (guidelines are already 100 times the limit than other countries and a search found 1 in 10 in violation).

Also, I included but I think I forgot to mention in the letter articles on the depreciation of house values near a cell tower. I'm writing to make sure that wasn't overlooked.

These are all very serious concerns and I hope they will be considered as such, along with considering it is not zoned, We voted NO and there is a better solution to New Seabury's dilemma.

Thank You,
Diane (and Dennis) Scannell
108 Degross rd.

May 9, 2019

Dear Planning Board,

As someone who lives directly behind the proposed cell tower location, I have concerns I would have to deal with daily as I look at this giant eyesore. (possibly even higher than the 150 ft. as per section 6409 (a) of the middle class tax relief job creation act of 2012, if I am understanding correct.)

Other concerns are noise, vibration, odor, smoke and flying debris (on a windy day, debris surly could travel outside the fall zone and into my yard where my family, which includes small children reside) as I have researched and found these to be some of the issues related to living next to a cell tower.

I have enclosed 23 articles that support my concerns, such as a report from Wall Street Journal and a few additional saying the same; 1 in 10 cell/grid towers violate RF radiataion rules, finding emmissions well above the limit which is already 100 times higher than other Countries. multiple reports say six engineers examined more than 5,000 sites and found the same to be true. Adding that the FCC has only issued two citations to mobile operators since rules were adopted in 1996. And that the FCC says it "does not have the resources of the personel to routinely monitor the emissions for all of the thousands of transmitters that are subject to FCC jurisdiction" they also state the FCC does not even have a database of cell sites.

Another llists Cell Tower Fires and Collapsing Towers. Another story describes the screeching noise, and another on the constant humming they are forced to endure while living next to a cell tower.

No doubt these conditions will effect my family's quality of life in a negative manner if this project is approved.

I See multiple other reasons this location is not the correct solution to the gap in coverage. Such as it is not zoned for a commercial business, we voted NO against rezoning, and much of the gap area will see no improvement,

Other locations could better serve the gap area. (In the Isotope report done by David Maxim for the Cape Cod Commission, he himself stated "The wireless carriers prefer to place new facilities in the area of poorest service. This would be about 3/4 mile south of the proposed site near the intersection of Hush Rd. and Great Oak Rd.

A location more to the south would better serve the densely developed New Seabury area, providing better coverage and more capacity to where the demand for service is likely the highest. There is a pocket in Popponesset that would not realize substantial improvement in service from the proposed facility."

I do not believe the conditions exist to force appoval and I have faith that will be thoroughly proven. I strongly feel if this project is going to be done, it should be done right and put where it is needed.

I am disheartened at what I have witnessed with some of the other board members and town officials throughout this process. I am hoping to regain my faith that our local government is in place to support ALL of Mashpee's residents and works to protect our town for future generations to enjoy in a environment of harmony.

Thank You,
Diane Scannell
108 Degrass Rd.



EMF & our health

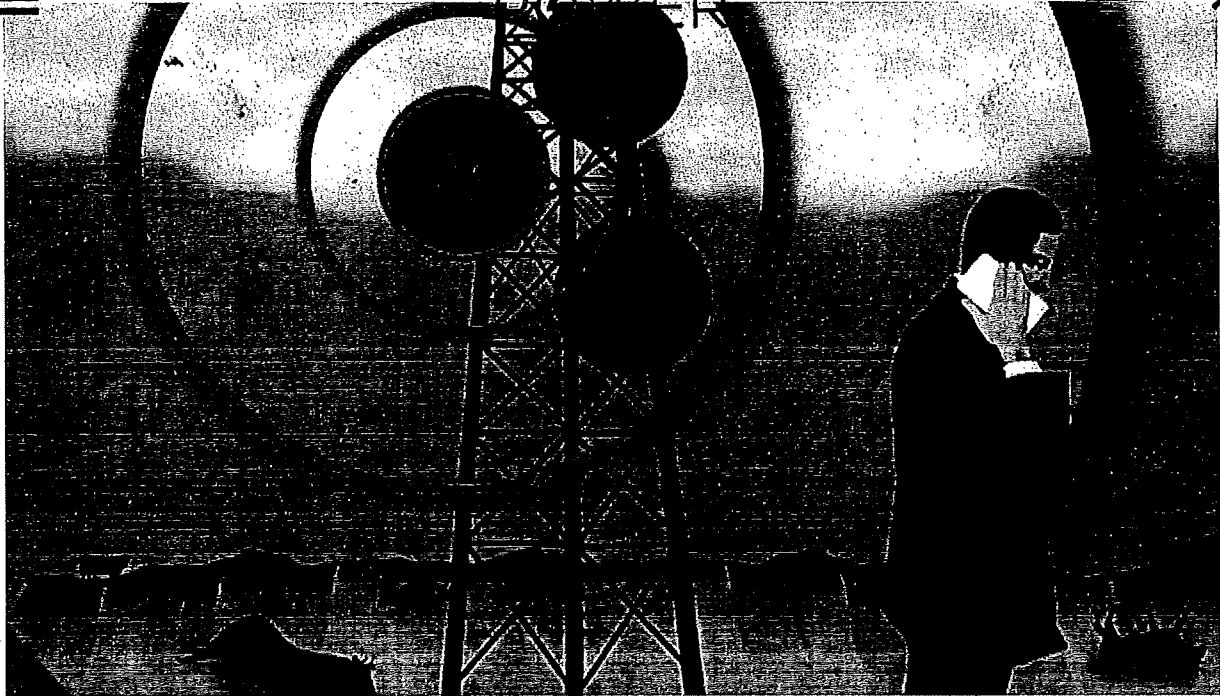
Wall Street Journal: “One in 10 cell/grid towers violate RF radiation rules”

October 4, 2014 Josh del Sol Beaulieu 475 views 7 min read

On Thursday, Ianthe Jeanne Dugan and Ryan Knutson did a story for the Wall Street Journal, Cellphone Boom Spurs Antenna-Safety Worries. Turns out that there is somewhere around 30,000 non-compliant cell phone towers in the USA that expose unsuspecting residents, school children and even their maintenance workers to dangerous levels of microwave radiation.

by RFSafe.com / [see original article](#)

TAKE BACK YOUR
POWER



Radiation “safety” guidelines from the industry-run FCC allow for 100x higher radiation than nations like China, Poland and Russia. And tens of thousands of towers are still illegal. What will be the fallout? Image:

crazymela.com

Parents that are concerned about the surge in school districts in America which lease-out rooftops directly above their children’s heads for the placement of high power microwave transmitters — have something new to worry about according to the Wall Street Journal.

Turns out that there is somewhere around 30,000 non-compliant cell phone towers in the USA that expose unsuspecting residents, school children and even their maintenance workers to dangerous levels of microwave radiation.

On Thursday, Ianthe Jeanne Dugan and Ryan Knutson did a story for the Wall Street Journal, *[Cellphone Boom Spurs Antenna-Safety Worries](#)*.

They found of the more than 300,000 cell phone tower locations—rooftops, parks, stadiums and schools —(which is nearly double the number from 10 years ago), that **“One in 10 sites violates the rules”**. This is according to six engineers who examined more than 5,000 sites during safety audits for carriers and local municipalities, underscoring a major safety lapse in the wireless tower network that transmits microwave radiation to your cell phone.

At a time when the health effects of [cell phone radiation](#) are being debated world-wide, the WSJ uncovers that cell tower carriers are not being held accountable for the health risk caused by unsafe cell

phone tower installation. The FCC has issued citations for safety violations since adopting the rules in 1996. The FCC says it lacks resources to monitor each antenna.

"It's like having a speed limit and no police," said Marvin Wessel, an engineer who has audited more than 3,000 sites and found one in 10 out of compliance.

The engineer went as far as showing the journalist first hand how commonplace it is to find cell phone towers putting nearby residents at risk from wireless radiation.

Mr. Wessel strolled through a residential area near Echo Canyon Park and spotted lawn chairs near a T-Mobile cell phone antenna painted brown to match a fence. His radiation meter showed emissions were well above radio frequency radiation safety limits.

After being alerted by The Wall Street Journal, T-Mobile added warning signs and roped off a patch in front of the antenna with a chain. "The safety of the public, our customers and our employees is a responsibility that all of us here at T-Mobile take very seriously," said a T-Mobile spokeswoman.

At high levels, microwave-frequency radiation can cook human tissue, the FCC said, potentially causing cataracts and temporary sterility and other health issues.

The National Institute for Occupational Safety and Health began studying that question after the World Health Organization in 2011 categorized RF radiation as a possible carcinogen, based on research by over 30 scientists, said Gregory Lotz, the top RF expert for NIOSH. And the National Toxicology Program at the National Institutes of Health is exploring lower-level RF exposure.

An FCC guideline written after the rules were adopted notes studies showing "relatively low levels" of RF radiation can cause "certain changes in the immune system, neurological effects, behavioral effects," and other health issues, including cancer.

Insurers are becoming concerned, and many will not insure against health risk from cell phone radiation. Hartford Financial Services Group Inc. and A.M. Best Co., the insurance-rating agencies, have flagged RF Radiation as an emerging risk. They wrote in a 2013 report that if RF radiation is linked to health problems it "could ultimately lead to large losses."

What are the chances that one of these unsafe cell phone towers is exposing your children to hazardous levels of radiation?

More probable than you think according to Dallas Independent School District. The Dallas ISD currently has 17 leases with cellular communication companies who pay to use the property. Fifteen of those antennas are currently on campuses where school children spend much of their day.

Some of the school campuses already exposing the children to cell tower radiation include Lincoln High School (just outside the building), and the football field light tower at Hillcrest High School. W.T. White

High School will also be getting an antennae in the near future. The contracts bring in revenue for DISD nearly \$400,000 per year.

POWER

But is it worth risking the health of our children knowing 1 in 10 aren't even in compliance with safety guidelines?

Parents at one Dallas ISD elementary school don't think so, and squashed a plan to put a cell phone tower on top of a school building.

Approximately 50 moms and dads attended, listening to a presentation from a Verizon representative.

Verizon proposed camouflaging the cell phone equipment on the school, installing it on the outside of a smoke stack and then wrapping the smoke stack in a faux brick façade. But most of the objections had nothing to do with looks.

"I have two children here, and I just don't want a cell phone tower near children. I don't see any reason," said parent Julie Graves. "It's about radiation exposure and brains development. They really just don't have any data on safety."

Graves was one of several parents in attendance who voiced objection.

In the end, the DISD representative in attendance — the district's property manager — asked for a vote.

When nearly everyone raised a hand in opposition, the Verizon and DISD representative said it was over.

For the safety of your children, RF Safe pleads that all parents do the same whenever a cell phone tower is being placed on your child's school grounds!

Original article: www.rfsafe.com/wsj-one-10-cell-phone-towers-violate-rf-radiation-safety-rule

Comment from Joel M. Moskowitz, PhD (www.saferemr.com):

When I first learned about this story six weeks ago, I hoped the reporters would explore the nonthermal risks to the general public from cell phone tower radiation instead of just focusing on the thermal risk to workers. As the article mentions, one in ten cell phone towers was found to emit more microwave radiation than the Federal regulations allow in terms of occupational exposure. Moreover, the occupational limit is 5 times more permissive than the Federal limit that the FCC adopted for the general public so members of the public may be exposed to illegal levels of cell phone radiation even though they are much farther away from the towers than workers. The so-called 50-fold safety factor mentioned in the article has been debunked by some researchers in a submission to the FCC. This means that many people may not be protected from the heating effects of cell phone tower radiation as ten percent of the

"The current US standard for cell site radiation in the US is **580-1000 microwatts per square centimetre**. Many other countries have set levels hundreds of times lower. The reason for the disparity is that no one really knows what level of cell tower radiation is safe. Current limits have been influenced more by economic and political imperatives than by research into health and safety.

Cell phone tower radiation limits Electromagnetic ...
www.youtube.com/watch?v=9ziYS2mbGcA

Is this answer helpful?

Cell Phone Tower Radiation Limits - National Environmental ...

<https://sites.google.com/.../research/cell-phone-towers>

The lower limit for reported human health effects has dropped 100- fold below the safety standard (for mobile phones and PDAs); 1000- to 10,000-fold for other wireless (cell towers at distance; WI-FI and WLAN devices). The entire basis for safety standards is called into question,...

Cellular Phone Towers - Information and Resources about ...

<https://www.cancer.org/.../cellular-phone-towers.html>

Third, even if RF waves were somehow able to affect cells in the body at higher doses, the level of RF waves present at ground level is very low – well below the recommended limits. Levels of energy from RF waves near cell phone towers are not significantly different from the background levels of RF radiation in urban areas from other sources, such as radio and television broadcast stations.

Electromagnetic Radiation Safety: Cell Tower Health Effects

<https://www.saferemr.com/2015/04/cell-tower-health-effects.html>

Resources regarding cell tower radiation. Electromagnetic Radiation Safety ... Federal regulations ignore the hundreds of studies that find harmful bio-effects from long-term exposure to non-thermal levels of cell phone radiation. ... and far (>300 m) from the mobile phone base stations. The safety limits for public exposure from mobile phone ...

Cell phone tower radiation limits Electromagnetic ...

<https://www.youtube.com/watch?v=9ziYS2mbGcA>



Apr 13, 2010 · Radiation levels from a single cell site vary, depending on usage. Even maintenance issues can affect how much radiation a cell site is currently producing. Radiation around a sin...
Author: bluetubeheadset
Views: 2.7K

Cell Towers - Safe Space Protection

<https://www.safespaceprotection.com/.../emf-health-effects/cell-towers>

Cell Phone Tower Exposure Overview. Human population centers are flooded with massive amounts of powerful wireless microwave radiation. Cell phone towers emit high-frequency radio waves, or microwaves, that can travel as far as 45 miles over level terrain. ...

Cell Tower Health Risks | EM Watch

<https://emwatch.com/cell-tower-health-risks>

Legal Cell Tower Radiation Levels. The current legal limit for cell site radiation in the US and the UK is 1000 microwatts per square centimetre. Other countries have set limits as low as 1 microwatt per square centimetre! Switzerland, Italy, China and others manage perfectly well with a limit of 10 microwatts per square centimetre.

What are the permitted frequencies of cell tower radiation ...

<https://www.quora.com/What-are-the-permitted-frequencies-of-cell...>

The ministry will conduct random checks for RF exposure. Violation of radiation limits or non-certification will entail a fine of Rs 5 lakh per tower. Telecom service providers will have to tweak the cell towers to adhere to the new RF level standards and also ready them for the new 1800 MHz frequency spectrum.

Cell Tower Radiation Testing - RF Exposure Assessment

www.emservices.com/cell-towers.htm

Regulations adopted by the Federal Communications Commission (FCC) in 1996, and fully implemented in 2000, limit human exposure to electromagnetic radiation from cell phone, broadcast, and other radio communication systems.

Cell towers and mobile phone radiation norms in India

<https://www.themobileindian.com/news/cell-towers-and-mobile-phone...>

Cell towers and mobile phone radiation norms in India. From September 1, the Department of Telecom will ensure that the exposure limits for radio frequency fields (1800 MHz) will be brought down by one tenth to 0.92 Watt per square meter compared to the current standard 9.2 Watt per square meter.

Author: Samir Makvana

Mobile phone radiation and health - Wikipedia

https://en.wikipedia.org/wiki/Mobile_phone_radiation_and_health ▾

Mobile phone radiation and health. Mobile phones use electromagnetic radiation in the microwave range (450–3800 MHz and 24-80GHz in 5G mobile). Other digital wireless systems, such as data communication networks, produce similar radiation.

1 2 3 4 5 >

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One in TEN Cell Phone Antenna Sites Violates Gov't Limit on Excessive EMF Radiation

One in TEN Cell Phone Antenna Sites Violates Gov't Limit on Excessive EMF Radiation

Posted on February 5, 2015February 5, 2015 by Melissa Melton Posted in Our Health

One in TEN Cell Phone Antenna Sites Violates Gov't Limit on Excessive EMF Radiation (<http://truthstreammedia.com/one-in-ten-cell-phone-antenna-sites-violates-govt-limit-on-excessive-emf-radiation/>)

By Melissa Melton | Originally posted at The Daily Sheeple (<http://wp.me/p2TTjj-skQ>)
Did you know there are over 2.3 million (<http://antennasearch.com/>) cell towers and antennas blanketing the United States right now?

That's a lot of electromagnetic frequency right there.

While some people, including myself, have pointed out that it's ridiculous to find a giant cell tower erected literally on an elementary school basketball court right next to the playground (<https://www.youtube.com/watch?v=eA9m5KwMjxs>) or placing them directly on school rooftops (<https://www.youtube.com/watch?v=s-MBEiAmcqU>), this is becoming more and more common to the point there are so many towers and antennas everywhere, they are beginning to blend in with the scenery as if having this many of these things is just natural now.

Pretty soon, no matter where you go in this country, you'll be within mere feet of at least one cell tower or antenna (but likely many more).



Wireless

One in 10 cell sites violate FCC rules aimed at limiting RF impacts, says report

by Tammy Parker | Oct 3, 2014 11:47am

The steadily rising numbers of antenna sites for cellular networks, many of which are being deployed in stealth fashion for aesthetic appeal, are raising eyebrows among those concerned about the impacts of excessive radio-frequency (RF) radiation.

Six engineers examined more than 5,000 sites and found on average that one in 10 of those sites violated FCC rules requiring, among other things, the use of barricades and signs to prevent people from getting too close, according to the *Wall Street Journal*. Despite those findings, the publication reported that the FCC has only issued two citations to mobile operators since rules were adopted in 1996.

Under a consent decree signed with the FCC this past spring, Verizon Communications (NYSE: VZ) agreed to pay \$50,000, train employees and contractors, and check other sites after it was accused of RF violations in Pennsylvania and Connecticut related to unlocked access to a rooftop and a missing sign.

Further, in one recent instance, engineer Marvill Wessel spotted lawn chairs near a T-Mobile US (NYSE: TMUS) antenna installation whose emissions violated safety limits. The structure was painted brown to match a fence. Upon notification from the *Wall Street Journal*, T-Mobile installed warning signs and a chain to restrict access in front of the antenna.

However, property owners and residents often become upset regarding RF notification signs, which they oppose due to aesthetics and concerns they might reduce their property value. Tamara

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Preiss, Verizon's vice president of federal regulatory affairs, told the FCC via letter in February that tenants at a condo complex in New York City had hired a lawyer and demanded the operator remove RF notification signs from a terrace access point.

According to the FCC, because of the height and manner in which most cellular antennas are deployed, ground-level exposures are much less than exposures if one were at the same height and directly in front of an antenna. "Measurements made near typical cellular and PCS installations, especially those with tower-mounted antennas, have shown that ground-level power densities are thousands of times less than the FCC's limits for safe exposure," according to a special FCC webpage.

The commission acknowledges that cellular antennas mounted at rooftop locations could expose people to RF levels greater than those typically encountered on the ground. "However, once again, exposures approaching or exceeding the safety guidelines are only likely to be encountered very close to and directly in front of the antennas," the FCC said.

Some studies have shown that RF radiation might have immune system and neurological effects, among other things. When it comes to any link between RF exposure and cancer, the FCC notes, "Results to date have been inconclusive."

In addition to concerns about public exposure to RF radiation, there are worries about the impact on laborers regularly working near cell sites. The FCC has set separate RF limits for the general public and those working near antennas, and workers who venture within 20 feet in front of an antenna are supposed to have special training and carry RF monitors.

Industry trade group CTIA has said cellular antennas are deployed in more than 300,000 U.S. locations, but the FCC says that it "does not have the resources or the personnel to routinely monitor the emissions for all of the thousands of transmitters that are subject to FCC jurisdiction." The FCC does not even have a database of cell sites.

Peter Chaney, director of safety and health for the Mechanical Contractors Association of America, told the *Wall Street Journal* that such a database would help protect workers. "We want workers to



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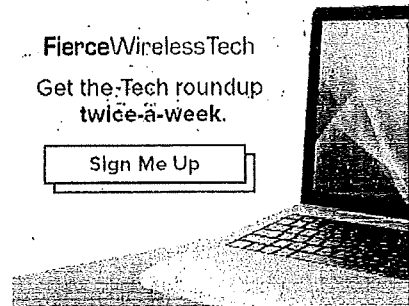
About the Author

Tammy Parker



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know that the antennas are there and that there may be a potential hazard," he said.

For more:

- see this *Wall Street Journal* article
- see this FCC webpage

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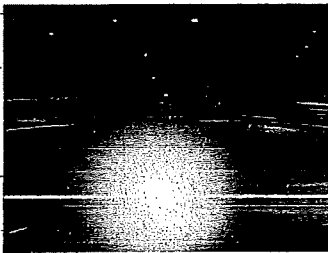
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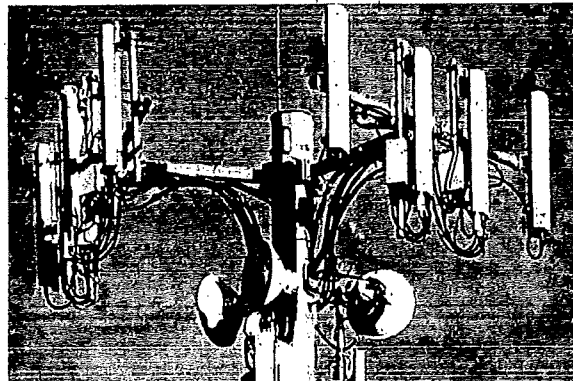
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Did you know there are over 2.3 million cell towers and antennas blanketing the United States right now?

That's a lot of electromagnetic frequency right there.



While some people, including myself, have pointed out that it's ridiculous to find a giant cell tower erected literally on an elementary school basketball court next to the playground or placing them directly on school rooftops, this is becoming more and more common to the point there are so many towers and antennas everywhere, they are beginning to blend in with the scenery as if having this many of these things is just natural now.

Pretty soon, no matter where you go in this country, you'll be within mere feet of at least one cell tower or antenna (but likely many more).

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Well, according to the Wall Street Journal, a team of six engineers evaluated more than 5,000 of these sites and found that **one in ten is violating the rules on excessive radiation.**

Federal rules require carriers to use barricades, signs and training to protect people from excessive radio-frequency radiation, the waves of electric and magnetic power that carry signals. The power isn't considered harmful by the time it reaches the street, but it can be a risk for workers and residents standing directly in front of an antenna.

One in 10 sites violates the rules, according to six engineers who examined more than 5,000 sites during safety audits for carriers and local municipalities, underscoring a safety lapse in the network that makes cellphones hum, at a time when the health effects of antennas are being debated world-wide.

Putting aside the argument about what megacorporations that want to sell you stuff will tell you is and isn't harmful, this is *insane*.

We are all being exposed to this more and more every day.

Oh, and apparently the Federal Communications Commission (FCC) has only issued TWO — that's two — citations to cell carriers since adopting these limits nearly twenty years ago way back in 1996.

Why? Because, "the FCC says it lacks resources to monitor each antenna."

This, engineer Marvin Wessel told WSJ, is like having speed limit signs but no police to enforce them... meaning it's POINTLESS to even have radiation limits if no one is monitoring that these companies are adhering to them. The whole set up requires an awful lot of trust in communications companies who have already demonstrated through Snowden leaks that they don't really care about their customers' rights at all.

So the FCC doesn't have the proper resources to actually hold cell phone companies accountable if their towers and antennas are emitting harmful radiation levels well above federal limits, but said companies are allowed to just continue to *blanket* our nation with them at an alarming pace anyway???

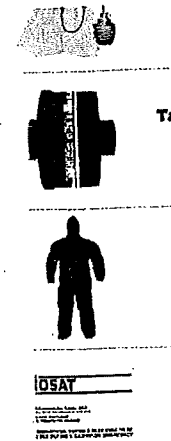
Makes sense, right?

Used to be antennas were only on towers that are easily visually recognizable. Nowadays these antennas can be hidden, painted to blend into the background and people might not even realize they're hanging out near one. This is what Wessel is talking about, again via WSJ:

On a sweltering June day in Phoenix, Mr. Wessel strolled through a residential area near Echo Canyon Park and spotted lawn chairs near a T-Mobile US Inc. cellular antenna painted brown to match a fence. His monitor showed emissions well above safety limits.

After being alerted by The Wall Street Journal, T-Mobile added warning signs and roped off a patch in front of the antenna with a chain. "The safety of the public, our customers and our employees is a responsibility that all of us here at T-Mobile take very seriously," said a T-Mobile spokeswoman.

So why is this an issue?



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At very high levels, radio-frequency radiation can cook human tissue, the FCC said, potentially causing cataracts and temporary sterility and other health issues.

To buffer people from these "thermal" effects, the FCC set two limits for how much RF people can absorb—one for the general public, and an "occupational" limit five times higher for people trained to work near antennas. The higher level is still 10 times below the thermal level.

Carriers have to restrict access near antennas that are above the limits. Workers and others who venture into hot zones—generally up to 20 feet in front of an antenna—must be trained and have RF monitors.

Realize this man said one in TEN of these locations is OUT OF COMPLIANCE regard to EMF radiation, emitting levels well beyond FCC limits for public safety and health.

Now back to the fact that we have over 2.3 million of these all over the country and counting...

Your body also has electromagnetic fields, but somehow we're supposed to believe these artificial EMF emitters surrounding us aren't affecting us every single day and somehow disturbing the growth of cells and the flow of information between our cells?

The BioInitiative Working Group put out a report in 2007 which concluded the existing public safety standards are inadequate anyway. Evidence has shown EMF:

- Affects gene and protein expression (Transcriptomic and Proteomic Research)
- Has genotoxic effects – RFR and ELF DNA damage
- Induces stress response (Stress Proteins)
- Affects immune function
- Affects Neurology and behavior
- Causes childhood cancers (Leukemia)
- Impacts melatonin production
- Promotes breast cancer (Melatonin links in laboratory and cell studies)
- Contributes to Alzheimer's Disease

Other studies link EMFs to:

- Enzyme changes that affect DNA and cell growth which can result in cancer and birth defects
- Fetal abnormalities, likely caused by enzyme changes
- Gene expression changes, which creates stress on your body and even result in cancer
- Changed metabolism and increased cell growth
- Increased production of stress proteins within cells
- Chronic stress, which can lead to heart conditions among others
- Neuro-hormone changes, which can result in memory loss and impaired brain function

The bottom line?

We are basically living in an open air science experiment on so many fronts in this country and cell phone towers are definitely one of them. We have no idea how this is going to look even a decade or two from now, especially for the poor people who work for cell phone companies who are coming into direct, close contact with these things on a daily basis.

If you live in an urban, suburban or even semi-rural area, you will probably be pretty surprised at just how many towers and antennas are humming all around you right now. They are installing towers and antennas on school rooftops, in church steeples, on our municipal water towers, and in everything from fake trees to fake cement blocks on

buildings that are meant to blend in with the rest of the building materials. They are no longer as obvious as they used to be, and thus, no longer as easy to avoid.

Do a search for your address at Antenna Search.com. You might be surprised how many of these things live near you.

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Contributed by Mellssa Dykes of The Daily Sheeple.

Mellssa Dykes is a writer, researcher, and analyst for The Daily Sheeple and a co-creator of Truthstream Media with Aaron Dykes, a site that offers teleprompter-free, unscripted analysis of The Matrix we find ourselves living in. Mellssa and Aaron also recently launched Revolution of the Method and Informed Dissent. Wake the flock up!

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
(https://www.rfsafe.com/)

WSJ Reports One in 10 Cell Phone Towers Violate RF Radiation Safety Rules

CELL PHONE RADIATION (HTTPS://WWW.RFSAFE.COM/CATEGORY/CELL-PHONE-RADIATION/)

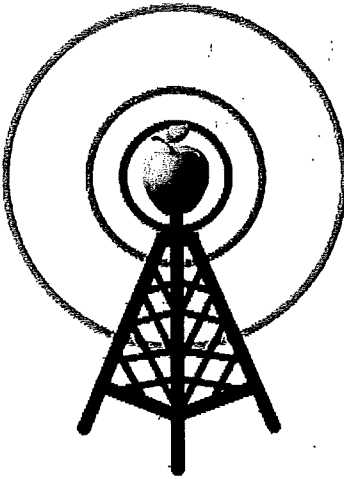



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Cell Phone Tower Radiation

Parents that are concerned about the surge in school districts in America which lease-out rooftops directly above their children's heads for the placement of high power microwave transmitters — have something new to worry about according to the Wall Street Journal.

Turns out that there is somewhere around 30,000 non-compliant cell phone towers in the USA that expose unsuspecting residents, school children and even their maintenance workers to dangerous levels of microwave radiation.

On Oct. 2, 2014, Ianthe Jeanne Dugan and Ryan Knutson did a story for the WSJ, *Cellphone Boom Spurs Antenna-Safety Worries* (http://online.wsj.com/articles/cellphone-boom-spurs-antenna-safety-worries-1412293055?mod= newsreel_4).

They found of the more than 300,000 cell phone tower locations—rooftops, parks, stadiums and schools—(which is nearly double the number from 10 years ago), that **“One in 10 sites violates the rules”**. This is according to six engineers who examined more than 5,000 sites during safety audits for carriers and local municipalities, underscoring a major safety lapse in the wireless tower network that transmits microwave radiation to your cell phone.

At a time when the health effects of cell phone radiation are being debated world-wide, the WSJ uncovers that cell tower carriers are not being held accountable for the health risk caused by unsafe cell phone tower installation. The FCC has issued just two citations for safety violations since adopting the rules in 1996. The FCC says it lacks resources to monitor each antenna.

“It’s like having a speed limit and no police,” said Marvin Wessel, an engineer who has audited more than 3,000 sites and found one in 10 out of compliance.

The engineer went as far as showing the journalist first hand how commonplace it is to find cell phone towers putting nearby residents at risk from wireless radiation.

Mr. Wessel strolled through a residential area near Echo Canyon Park and spotted lawn chairs near a T-Mobile cell phone antenna painted brown to match a fence. His radiation meter showed emissions were well above radio frequency radiation safety limits.

After being alerted by The Wall Street Journal, T-Mobile added warning signs and roped off a patch in front of the antenna with a chain. “The safety of the public, our customers and our employees is a responsibility that all of us here at T-Mobile take very seriously,” said a T-Mobile spokeswoman.

At high levels, microwave-frequency radiation can cook human tissue, the FCC said, potentially causing cataracts and temporary sterility and other health issues.

The National Institute for Occupational Safety and Health began studying that question after the World Health Organization in 2011 categorized RF radiation as a possible carcinogen, based on research by over 30 scientists, said Gregory Lotz, the top RF expert for NIOSH. And the National Toxicology Program at the National Institutes of Health is exploring lower-level RF exposure.

An FCC guideline written after the rules were adopted notes studies showing "relatively low levels" of RF radiation can cause "certain changes in the immune system, neurological effects, behavioral effects," and other health issues, including cancer.

Insurers are becoming concerned, and many will not insure against health risk from cell phone radiation. Hartford Financial Services Group Inc. and A.M. Best Co., the insurance-rating agencies, have flagged RF radiation as an emerging risk. They wrote in a 2013 report that if RF radiation is linked to health problems it "could ultimately lead to large losses."

What are the chances that one of these unsafe cell phone towers is exposing your children to hazardous levels of radiation?

More probable than you think according to Dallas Independent School District. The Dallas ISD currently has 17 leases with cellular communication companies who pay to use the property. Fifteen of those antennas are currently on campuses where school children spend much of their day.

Some of the school campuses already exposing the children to cell tower radiation include Lincoln High School (just outside the building), and the football field light tower at Hillcrest High School. W.T. White High School will also be getting an antennae in the near future. The contracts bring in revenue for DISD – nearly \$400,000 per year.

But is it worth risking the health of our children knowing 1 in 10 aren't even in compliance with safety guidelines?

Parents at one Dallas ISD elementary school don't think so, and squashed a plan to put a cell phone tower on top of a school building.

Approximately 50 moms and dads attended, listening to a presentation from a Verizon representative.

Verizon proposed camouflaging the cell phone equipment on the school, installing it on the outside of a smoke stack and then wrapping the smoke stack in a faux brick façade. But most of the objections had nothing to do with looks.

"I have two children here, and I just don't want a cell phone tower near children. I don't see any reason," said parent Julie Graves. "It's about radiation exposure and brains development. They really just don't have any data on safety."

Graves was one of several parents in attendance who voiced objection.

In the end, the DISD representative in attendance — the district's property manager — asked for a vote.

When nearly everyone raised a hand in opposition, the Verizon and DISD representative said it was over.

For the safety of your children, RF Safe pleads that all parents do the same whenever a cell phone tower is being placed on your child's school grounds!

TAGS CELL PHONE RADIATION ([HTTPS://WWW.RFSAFE.COM/TAG/CELL-PHONE-RADIATION/](https://www.rfsafe.com/tag/cell-phone-radiation/))

CELL PHONE TOWER RADIATION ([HTTPS://WWW.RFSAFE.COM/TAG/CELL-PHONE-TOWER-RADIATION/](https://www.rfsafe.com/tag/cell-phone-tower-radiation/))

CELL PHONE TOWERS ([HTTPS://WWW.RFSAFE.COM/TAG/CELL-PHONE-TOWERS/](https://www.rfsafe.com/tag/cell-phone-towers/))

CHILDREN ([HTTPS://WWW.RFSAFE.COM/TAG/CHILDREN/](https://www.rfsafe.com/tag/children/))

HEALTH EFFECTS ([HTTPS://WWW.RFSAFE.COM/TAG/HEALTH-EFFECTS/](https://www.rfsafe.com/tag/health-effects/))

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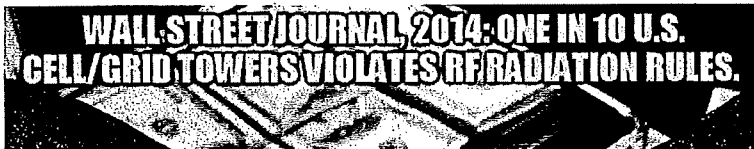
HOME

HEALTH

In 2014, One In 10 U.S. Cell/Grid Towers Violated RF Radiation Rules; Telecom Companies, Elected Officials Determined To Add Millions More — This Is 5G

TOPICS: 5G BN Frank Cell Phone FCC Radiation

MARCH 6, 2018





By B.N. Frank

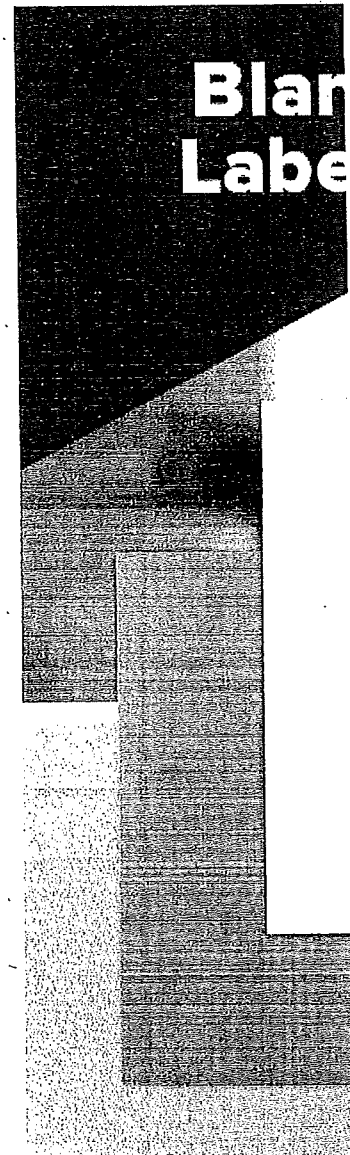
On October 2, 2014, *The Wall Street Journal* published, “*Cellphone Boom Spurs Antenna-Safety Worries.*”

If you aren’t a *WSJ* subscriber, you will only have access to the first 2 paragraphs of the article.

The antennas fueling the nation’s cellphone boom are **challenging federal safety rules** that were put in place when signals largely radiated from remote towers off-limits to the public.

Now, antennas are in more than 300,000 locations—rooftops, parks, stadiums—nearly double the number of 10 years ago, according to the industry trade group CTIA.

Other organizations weighed in on the findings in this article.



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From RFSafe.com in 2014: "WSJ Reports One in 10 Cell Phone Towers Violate RF Radiation Safety Rules"

1. *According to 6 engineers who examined more than 5,000 sites, "one in 10 sites violated the rules". In 2014, that was 30,000.*
2. *Cell tower carriers were not being held accountable for the health risk caused by unsafe cell phone tower installation.*
3. *The FCC said it lacked resources to monitor each antenna.*
4. *Since 1996, The FCC had issued 2 citations for safety violations.*
5. *One engineer demonstrated to a WSJ journalist how common it was to find cell phone towers in violation of federal safety standards.*
6. *An FCC guideline written after the rules were adopted noted studies showing "relatively low levels" of RF radiation can cause:*
 - *certain changes in the immune system*
 - *neurological effects*
 - *behavioral effects"*
 - *other health issues, including cancer.*

Sheet

Label Everything

Blank or Printed

GET STARTED

RED

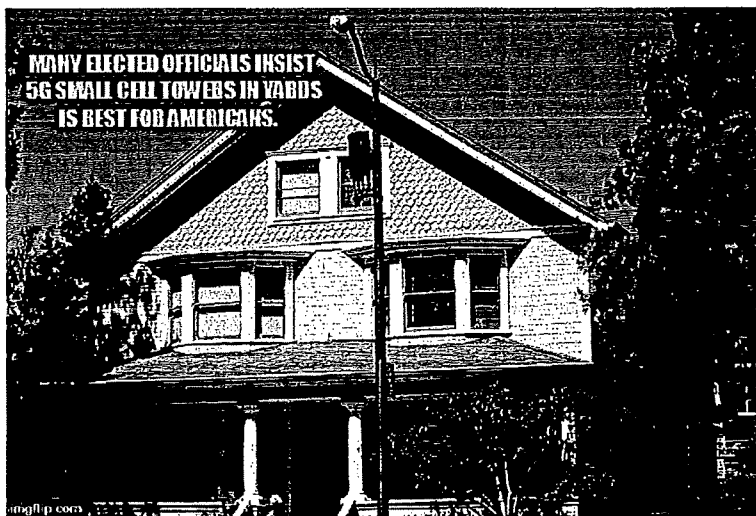


That 5G Is Safe

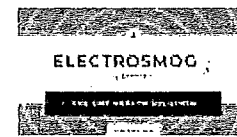
According to a February 9, 2018 segment on the Dr. Oz show, telecom companies want to install all these 5G towers primarily to enable Americans to binge-watch, surf, and post online at high speeds without the threat of being disconnected or having screens freeze-up.

Many Americans as well as municipal governments have been fighting this. Some have filed lawsuits.

FCC Chairman, Ajit Pai, many of our elected officials, and telecom companies insist that installing all these new towers is good for Americans.



According to a recent article from The Center for Public Integrity, they seem willing to do and say whatever it takes to get this done.



MAY 7, 2019

Electrosmog Rx Online Courses with Drs. Dietrich Klinghardt, Martin Pall, and More Regarding Electrosmog Exposure-Related Illnesses (Including Cell Phone and WiFi Radiation)



MAY 7, 2019

Meteorologists Warning 5G Tech Could Interfere with Weather Forecast

ing Satellites and Lives Could Be Lost

5G promises to generate huge profits for the wireless companies, with as much as \$250 billion in service revenue expected annually by 2025. And 5G will unleash an economic boom, say supporters of pre-empting local rules. They frequently cite a report by the consulting firm Accenture, which concluded that wireless firms will invest \$275 billion over the next seven years deploying small cells, creating 3 million jobs and eventually boosting the national economy by \$500 billion annually.

The study appears everywhere — mentioned by FCC commissioners in speeches, cited in an official FCC docket, in wireless carriers' comments, and in statements by the powerful Washington associations that represent them. What most don't mention is that the study was paid for by the wireless association CTIA, one of Washington's top lobbying spenders.

The wireless industry argues that localities' high fees, design requirements and delays in processing permits have effectively prohibited the deployment of broadband, which they argue is a violation of federal law; they've asked the FCC to make that clear in reining in cities and counties.

President Trump, you promised if elected, you would give the country back to the people.

Mr. President, we don't want cell towers in our yards and all over our communities. Have mercy.



MAY 7,
2019

Does Driving Stress You Out? Eliminating Sources of Wireless Radiation May Help (Bluetooth, WiFi, etc).

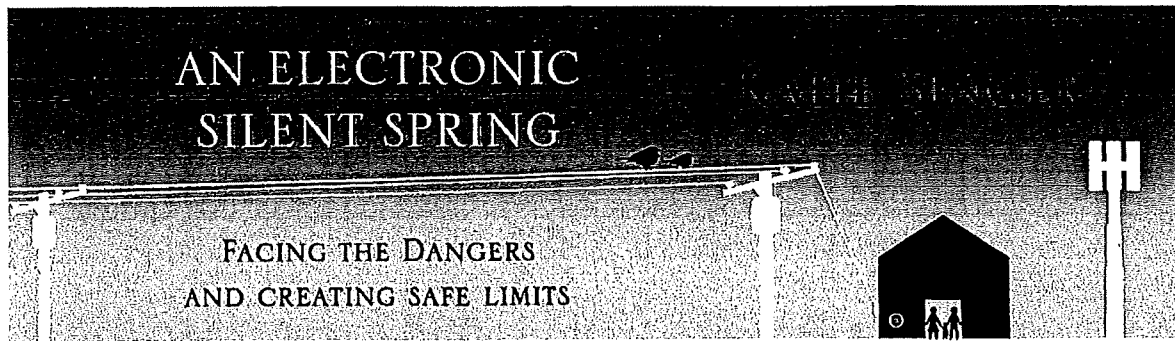


MAY 7,
2019

Ugandan Regulators Order 13 Media Outlets to Suspend Staff Over Coverage of Opposition Figure



Electronic Silent Spring



Cell Tower Fires and Collapsing Towers

The first list is from SafeSchoolSPG.org, the second from David Stupin and the third from Walter Cooper.

Fires

- Cell phone tower near Virginia Heritage High School catches fire—— Now it is leaning over. <http://wtkr.com/2015/06/16/cell-phone-tower-near-heritage-high-school-catches-fire/>
- School Football Field Cell phone tower catches fire in Grandview, Ohio. <http://www.dispatch.com/content/stories/local/2014/07/15/0715-grandview-cellphone-tower-fire.html>
Sept 13, 2014 Cell tower fire at Thurston High sends up smoky plume.
- <http://www.kval.com/news/local/Cell-tower-fire-near-Thurston-High-sends-up-smoky-plume-275018241.html>
- Cell tower at Risk of Falling after Fire Atlanta Georgia. <http://www.wsbtv.com/videos/news/emergency-crews-worry-cell-tower-may-fall-after/VFQDs/>
- Pennsylvania Fire results in Collapse Fears: Collapse Zone created at base and they vacated the buildings: <http://www.nbcphiladelphia.com/news/breaking/Cell-Phone-Tower-Fire-Collapse-Bucks-County-212501221.html>
- Cell tower fire closes Rockbridge Road, evacuates day care. <http://www.gwinnettdailypost.com/news/2011/dec/02/fire-closes-rockbridge-road/>
- New Jersey Cell Tower Fire: http://www.nj.com/monmouth/index.ssf/2013/05/cell_tower_fire_knocks_out_main_middletown_police_communications.html
- Explosion near cell tower likely caused by propane leak, Iowa <http://www.lemarssentinel.com/story/1641878.html>

- Cell phone tower to be taken down following fire, Georgia.
<http://www.ajc.com/news/news/local/cell-phone-tower-to-be-taken-down-following-fire/nQPC6/>
- Cell phone tower catches fire near U.S. 95 Las Vegas,
<http://www.fox5vegas.com/story/20959950/cell-phone-tower-catches-fire-near-us-95>
- Maryland Cell Tower Destroyed by Fire <http://www.firehouse.com/news/10500668/maryland-cell-tower-destroyed-by-fire>
- Cell tower catches fire, nearby buildings evacuated, San Bernardino County, California
<http://www.dailybulletin.com/20110113/cell-tower-catches-fire-nearby-buildings-evacuated>
- Kansas City Cell Tower Fire closes Interstate 435 <https://screen.yahoo.com/raw-video-cell-tower-fire-213100571.html>
- Osprey nest, electrical problem sparked Poulsbo cell tower fire Washington State
<http://www.northkitsap Herald.com/news/124300644.html>

Cell Tower Collapse

- A cell tower, damaged by fire, has been taken down after it hung precariously over Highway 305. Washington State. <http://www.kitsapsun.com/news/2011/jun/20/highway-305-blocked-after-cell-phone-tower-starts/>
- OSHA Investigating Fatal Cell Tower Collapse in Harrison County West Virginia 2014:
<http://www.wvstv.com/story/24608973/osha-investigating-fatal-cell-tower-collapse-in-harrison-county>
- Names released in fatal cell tower collapse. <http://www.wvva.com/story/24611430/2014/02/02/a-wva-cell-tower>
- Burning Cell Tower at Risk of Falling in Seminole County, Oregon
<http://www.news965.com/news/news/local/cell-phone-tower-burning-could-fall/nZYBg/>
- Oswego, New York Cellular Tower Crushes Chief's Vehicle
<http://www.firehouse.com/news/10530195/oswego-new-york-cellular-tower-crushes-chiefs-vehicle>
- Tower collapse: Heavy wind and rain blamed for downing 'major communications' equipment in Berkshires, knocking out police, fire radio service, Massachusetts
http://www.masslive.com/news/index.ssf/2014/03/heavy_wind_and_rain_causes_col.html

Worker Deaths and Accidents:

- Cell Tower Climber Falls 153 Feet, Dies on Impact, Minnesota
<http://www.northlandsnewscenter.com/home/Cell-Tower-Climber-Falls-153-Dies-on-Impact-160464075.html>

- **Tulsa Fire Department Rescues Worker From Top Of Cell Phone Tower**
<http://wnow.worldnow.com/story/23301861/tulsa-fire-department-rescues-worker-from-top-of-cell-phone-tower>
- **Worker who fell 65 feet from cell tower dies: Arizona:**
http://azstarnet.com/news/local/crime/worker-who-fell-feet-from-cell-tower-dies/article_c0932089-a4e0-5c14-9ce4-bb2cd8be86c1.html
- **Worker hurt in 80-ft. fall from cell tower in Marcy New York.**
http://www.syracuse.com/news/index.ssf/2011/12/worker_hurt_in_80-ft_fall_from.html
- **Cell phone towers collapse in West Virginia, killing 3**
<http://www.foxnews.com/us/2014/02/02/cell-phone-towers-collapse-in-west-virginia-killing-3/>
- **A Deadly Surge in Tower Climber Accidents** <http://projects.propublica.org/graphics/cell-tower-accidents>
- **Fatal bandwidth: 6 cell tower deaths in 5 weeks: Indiana, Nebraska, Georgia.**
<http://fortune.com/2008/05/28/fatal-bandwidth-6-cell-tower-deaths-in-5-weeks/>
- **Burleson fire dept. rescues man from cell tower, Texas**
<http://www.wfaa.com/news/local/Burleson-fire-dept-rescues-man-from-cell-tower-126770898.html>
- **Gaithersburg Maryland: Trapped Worker Is rescued after freezing.**
<http://www.nbcwashington.com/news/local/Crews-Work-to-Rescue-Man-From-Cell-Phone-Tower-188069201.html>
- **Texas: Six Hour Rescue for Tower Worker**
<http://www.statter911.com/2011/08/05/more-than-six-hour-rescue-to-get-man-from-760-foot-level-of-tower-firefighters-in-burleson-texas-tell-their-story/>
- **Spokane fire department rescues dangling cell tower worker, Spokane Washington.**
<http://www.komonews.com/news/local/Fire-department-rescues-dangling-cell-tower-worker-184691911.html>
- **Worker rescued after hanging from Charlotte cell phone tower, Charlotte,**
<http://www.wtvm.com/story/25218063/man-trapped-at-top-of-cell-tower-in-east-charlotte>

Criminal Activity

- **Two men accused of stealing copper from seven Scotland County cell towers**
http://www.fayobserver.com/crime/article_84105af4-cc01-5b8b-9a54-d4b502c7c402.html?mode=jqm
- **2014: Copper thefts on the rise: "Since Jan. 1 in Olathe, KS, alone there have been five reports of cell phone tower break-ins and thefts. Sources say the damage being done to the towers is in the hundreds of thousands of dollars. The copper is part of the grounding component and without it, if there's a lightning strike, it could fry all the electronics inside and make the tower**

useless. That means an entire area could be left without service.

<http://www.kctv5.com/story/24790956/authorities-make-200000-bust-in-cell-phone-tower-thefts>

- Copper ground wire and a copper bus breaker were stolen from the AT&T cell tower on Coolspring Church Road <http://www.sharonherald.com/policefirecourts/x1450995057/Police-Fire-for-March-25-2012>
- Busbars stolen from Centreville MD cell phone tower June 2014
http://www.myeasternshoremd.com/news/queen_annes_county/article_d47bb777-6d9b-592d-b0b0-7cd7669bc9fc.html
- Arrests made for alleged cell tower diesel fuel thefts in Anne Arundel County
<http://www.wjla.com/articles/2013/09/robert-murphy-daniel-padgett-arrested-for-alleged-diesel-fuel-thefts-in-anne-arundel-county-93692.html#ixzz3EYFr3gev>
- Copper stolen from cell tower in Millington MD : Six copper electrical connectors
http://www.stardem.com/news/local_news/article_02d3b6e2-61d2-56eb-b52c-4ac85a7440f7.html
- MD State Police 10/2013 to 12/2013, the Easton Barrack was contacted regarding the theft of copper-rich batteries from several cell tower locations in Dorchester County. <https://www.mdsp.org/Organization/FieldOperationsBureau/Barracks/BarrackIEaston/IMPACTINCAROLINEDORCHESTERTALBOTCOUNTIES.aspx>

Falling Ice

- Tower Ice Falling Video
<http://www.youtube.com/watch?v=aqy32tzTRkA>
- Giant Icicles Fall From Sky, Smash Cars <http://www.theblaze.com/stories/2011/01/12/giant-icicles-fall-from-sky-smash-cars/>
- FALLING ICE FROM TOWER <http://www.youtube.com/watch?v=eJ9hNELFWp4>

Falling Debris

- Feb 13, 2012 El Paso Texas, Decorative Frond Falls From Palm Tree Cell Phone Tower, slices through man's car. <http://www.kvia.com/video/Decorative-Frond-Falls-From-Palm-Tree-Cell-Phone-Tower-slices-through-man-s-car/17445784>
- St. Peters residents raise safety concerns about new cell phone tower: Debris coming in every storm. <http://www.kmov.com/news/st-charles-county-news/St-Peters-residents-raise-safety-concerns-about-new-cell-phone-tower-246722471.html>
- 2/20/2014 Crescenta CAAT&T Withdraws Cell Tower Application: Debris fall off cell tower onto residence. <http://www.crescentvalleyweekly.com/news/02/20/2014/att-withdraws-cell-tower-application/>

Other Concerning Situations:

- Suicidal person talked down from Tower:
Florida <http://www.theledger.com/article/20100805/news/8055093>
- Teen Talked Down From Cell Tower <http://www.nbcchicago.com/news/local/Suburban-Teen-Rescued-From-Cell-Tower-265033731.html>

Compiled by Dr. David M. Stupin,
retired physicist, Los Alamos National Lab
A joint project of the EMR Policy Institute (www.emrpolicy.org)
and electronicsilentspring.com

Cellular phone gear (antennas) have snapped and caused severe fires.
Towers have also collapsed due to construction errors (31%), to ice (29%),
to special wind (19%), to aircraft (11%) and to anchor failure (10%).
Here are reports of cell towers that have caught fire and collapsed.

Under the list, please find more information from science writer B. Blake Levitt
about cell tower fires and collapses.

Cell Tower Fires

Compiled by Dr. David M. Stupin, retired physicist from Los Alamos National Laboratory.

4/14/2006 Temple Hills, Prince George County, MD
7/4/2007 Howell, MI
10/2007 Malibu, CA
5/10/2010 Madison, WI
5/10/2010 Madison, WI
1/13/2011 Rancho Cucamonga, CA
1/21/2011 Poulsbo, WA
1/22/2011 Wall, NJ, Tinton Falls, NJ and Neptune, NJ
1/22/2011 Wall, NJ, Tinton Falls, NJ and Neptune, NJ (video)
12/2/2011 Lilburn, GA
12/2/2011 Lilburn, GA
5/16/2013 Middletown, NJ
5/16/2013 Middletown, NJ (video)
6/21/2013 Bensalem, PA
7/8/2013 West Salem, OR
7/8/2013 Bensalem, PA
7/8/2013 Bensalem, PA
8/21/2013 Sanford, FL

1/6/2014 Brownsville, TX
1/6/2014 Brownsville, TX
2/4/2014 Las Vegas, NV
6/16/2015 Newport News, VA

Collapsing Towers

Compiled by Dr. David M. Stupin, retired physicist from Los Alamos National Laboratory.

5/10/2003 Peoria, IL
11/2/2003 Oswego, New York
3/18/2008 La Merida, CA
1/24/2009 Wellesley, MA
11/10/2009 Torrance, CA
12/14/2009 Tulsa, OK
2/18/2011 Clinton, PA
4/4/2011 Ballard County, KY
10/31/2012 Associated Press – Hurricane Sandy takes out 25% of cell towers in US
3/6/2013 St Louis, MO
3/19/2013 Laredo, TX
5/16/2013 Middletown, NJ
5/28/2013 Copiah County, MS
7/8/2013 Bensalem, PA
7/8/2013 Bensalem, PA
7/20/2013 San Ramon, CA
10/1/2013 Willow, AK
10/20/2013 Jefferson County, MO
10/25/2013 Alascom, AK
1/13/2014 Chewelah, WA
2/2/2014 Clarksburg, WV (2 towers)
3/14/2014 North Adams, MA
3/26/2014 Blaine, KS
5/10/2014 Hudsonville, MI

For a list of videos showing cell tower collapses, please click here.

Cell tower worker deaths

Girl's cell phone catches fire under her pillow while she sleeps

Yet More....

A cell tower falls across U.S. Route 280 highway in Lee County, Ala., after a tornado struck in the area on March 3, 2019.

Walter Cooper's list of cell tower collapses can be found here:

http://www.anticelltowerlawyers.com/anti_cell_lawyer_1_020.htm

Other Resources

The Canyon Area Residents for the Environment

Ethics in Engineering at Texas A&M University

Mechanical Calculations for Determining Safe Cell Tower Setbacks

Wikipedia list of catastrophic collapses of broadcast masts and towers

A model letter for municipalities who aim to maintain regulation of telecommunications equipment in their area

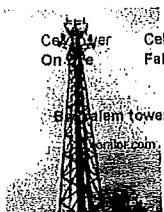
Notes from B. Blake Levitt

www.blakelevitt.com

Electromagnetic Fields: A Consumer's Guide to the Issues and How to Protect Ourselves

Cell Towers, Wireless Convenience? Or Environmental Hazard? Proceedings of the 'Cell Towers Forum' — State of the Science, State of the Law

Such potential problems are among the reasons why large setbacks from dwellings/schools/businesses are recommended — 1500' minimum. Check out the two videos of burning towers — one has useful info for fire departments. Looks like these kinds of fires are unusual to fight and require creative approaches. Among the causes: overheating of equipment, improper cooling, lightning strikes, and others. One industry report found that if there's a tower, there is a 100%+ chance per year it will attract lightning. Even proper grounding does not always offset potential equipment damage/failure from such massive jolts and sudden ground current, including accessory building and generator explosions. Accessory buildings and generators contain sulphuric acid in batteries and diesel. That's why large setbacks — 400' minimum — are recommended for accessory buildings from wetlands. These can be complicated sites.



Cell Tower On Fire



Cell Tower On Fire

Cell Tower Being Dismantled

Cell Tower Community Meeting

Cell Tower

Cell Phone Tower Fire

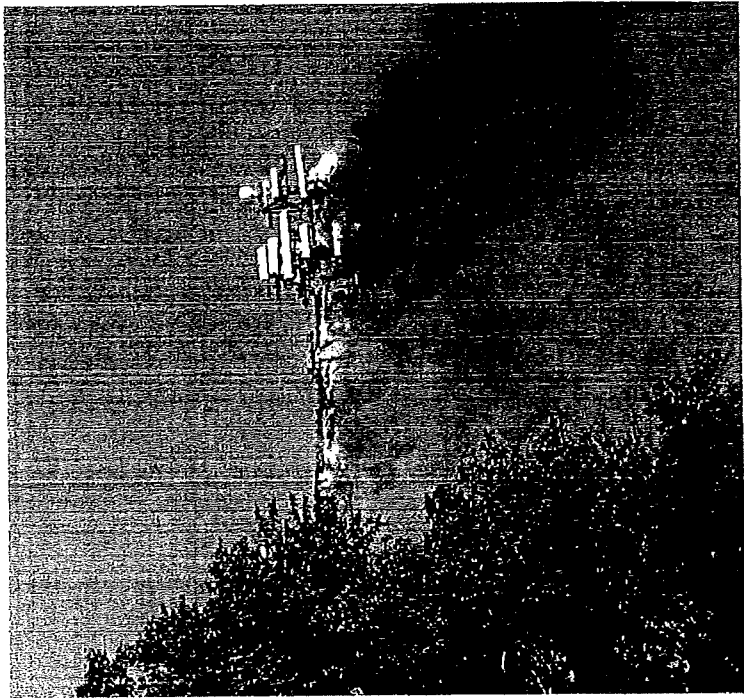
Tipped Over Cell Towers

Communication Tower On Fire

Electrical Fire

Flag Pole Cell Towers

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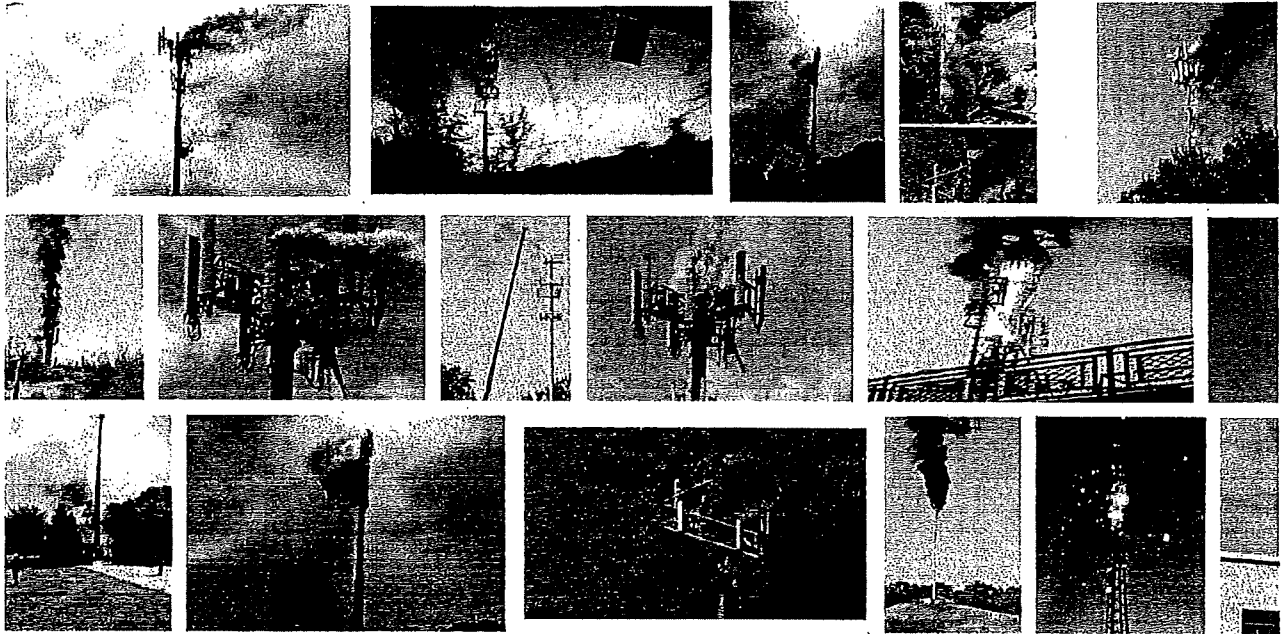


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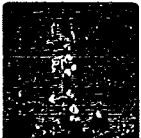





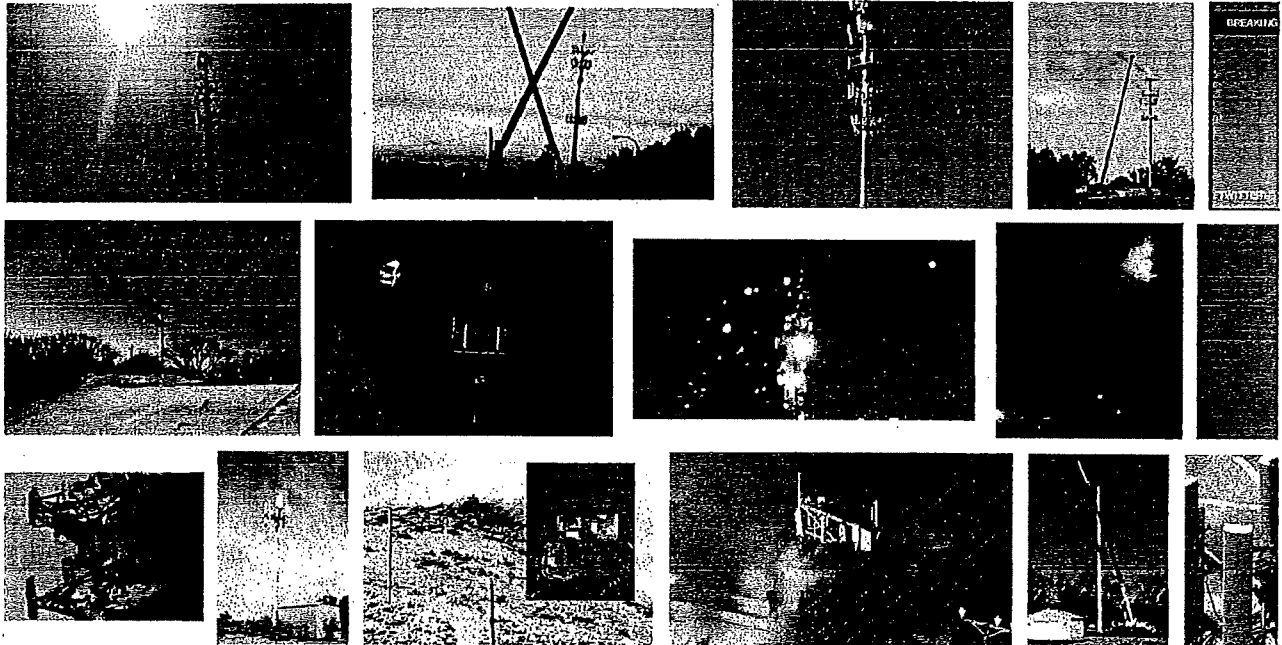
Feedback

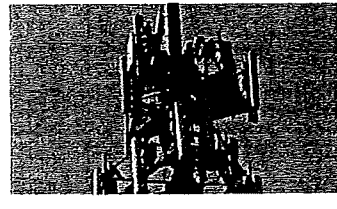
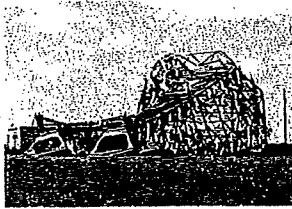
Feedback



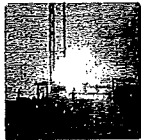
Explore more searches like fires related to cell towers

								
Cell Tower Falls	Cell Tower Background	Cell Tower Art	Cell Tower Flood	Cell Tower Antenna Panels	Cell Tower Sites	Cell Tower Construction	Cell Tower Logo	Cell Tower Diagram





People interested in fires related to cell towers also searched for



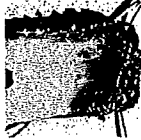
Radio Tower Fire



Eiffel Tower On Fire



Cell Site Fire



Cell Phone Fire



New Rochelle Fire



Energy Fire



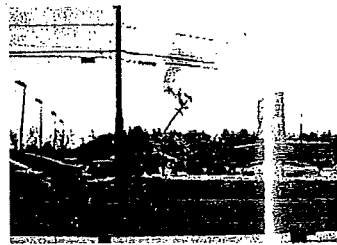
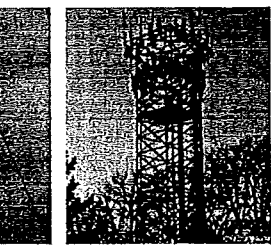
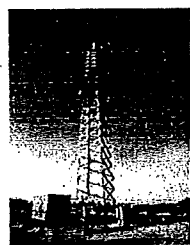
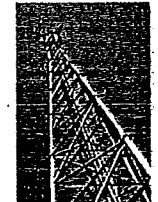
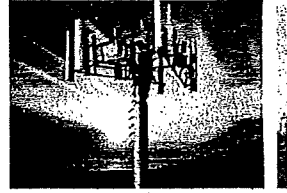
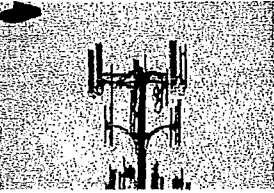
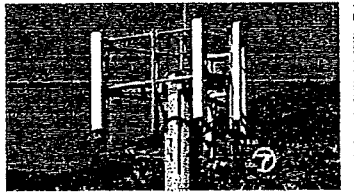
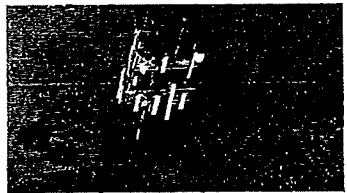
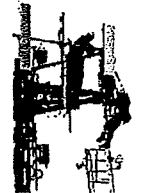
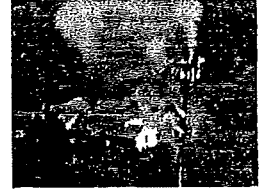
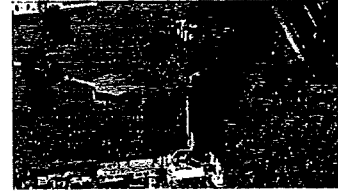
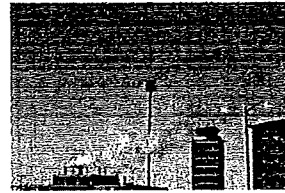
Reactor Fire



Forklift On Fire



Bar Fire



Petition update

Falling Ice and Debris from Cell Towers

Ed Virnig
Brookfield, United States

Jun 25, 2013 — Ice falling from 15 stories up will travel at 65 miles per hour and hit the ground in 3 seconds, causing significant injury to people and damage to property. Here are a few links to falling ice and debris from cell towers:

<http://www.youtube.com/watch?v=aqy32tzTRkA>






<http://www.youtube.com/watch?v=pfBp2QYOIbc>

<http://www.youtube.com/watch?v=YWqiSHRwmk8>

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Politicians and rich CEOs shouldn't make all the decisions. Today we ask you to help keep Change.org free and independent. Our job as a public benefit company is to help petitions like this one fight back and get heard. If everyone who saw this chipped in monthly we'd secure Change.org's future today. Help us hold the powerful to account. Can you spare a minute to become a member today?

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CATEGORY: MISHAPS

MAY 12, 2015

Cell Tower Piece Falls Near Marina

We hear these stories a lot and they are what drove us to engineer Super Shroud™. Super Shroud™ reduces the risk of cell tower shrouds falling since the shroud never needs to be removed for normal maintenance service.

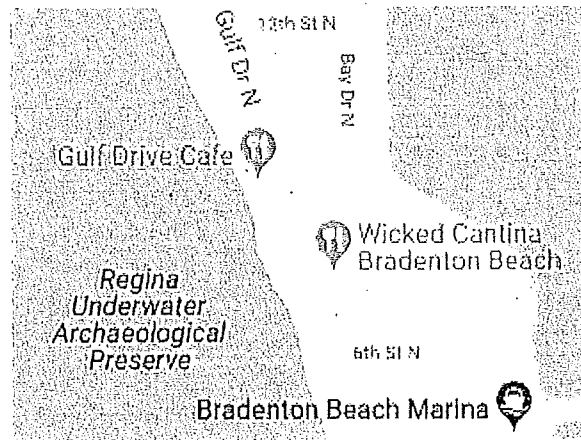
Cell tower mishap concerns marina owner

From the Anna Maria Islander.

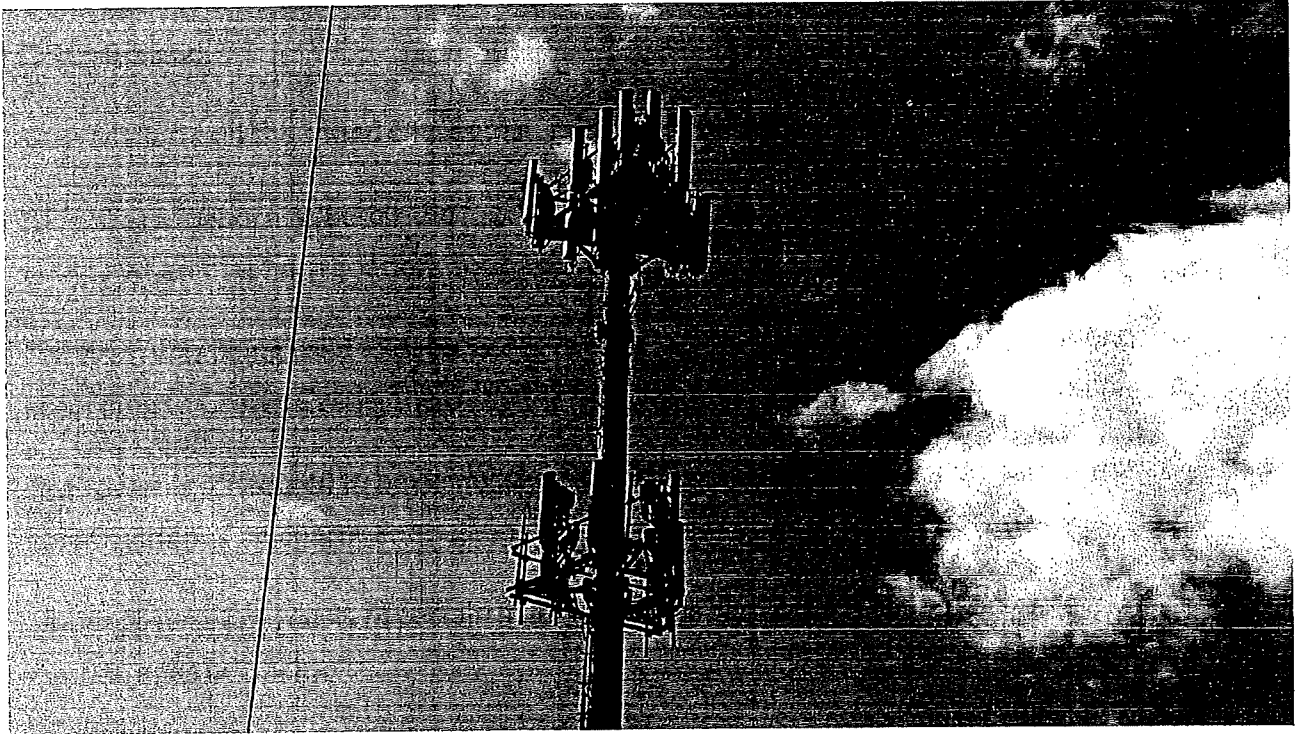
Michael Bazy breathed a sigh of relief April 27 when he learned the large piece of fiberglass that fell from the Bradenton Beach **cell tower landed on his property** without causing any damage.

Yet, Bazy sent a brief letter that day to city hall with a photo of the panel on the ground.

'I don't know if it could happen again,' Bazy said May 5. 'I know that it did happen, and it fell on my property. If they are going to take steps to rectify that and not have it happen again, then that's fine, but I don't want it to happen again.'



[Read the full article](#)



NEWS

Cell tower horn blasts neighborhood with noise

Bird deterrent deactivated after News 6 began asking questions

MIKE DEFOREST



Ad

But people living in the residential community adjacent to the cellphone tower claim the bird deterrent is also making their neighborhood unwelcoming.

"It's really very irritating and stressful," said Hobbs, who contacted News 6 when the loud noises resumed after about a week of unexplained silence.

According to a city of Orlando spokesperson, the horn does not violate the city's noise ordinance.

Under the city code, a noise louder than a prescribed decibel level "may not be exceeded for longer than 8.3 percent of any measurement period" of at least 30 minutes.

"The offending noise would need to be above the city's noise threshold for over two and a half minutes," said city of Orlando public information officer Karyn Barber. "This particular siren does not sustain the noise for that long."

A permit is not required to use a horn to deter osprey from building a nest, according to the Florida Fish and Wildlife Commission.

"However, horn use and other deterrent measures must be done in a non-injurious manner," said FWC spokesperson Jamie Rager. "If a nest is present, the nest must be inactive, (meaning) it does not contain eggs or flightless chicks."

Hobbs said she and others have complained to the building contractor about the horn, but it is unclear if any residents specifically spoke with Crown Castle representatives.



Ad

After News 6 contacted the cellphone tower owner, the company acknowledged the neighbors' concerns and decided to deactivate the horn.

Crown Castle officials said they hope birds will avoid nesting in the tower prior to demolition.

"We don't have any plans to turn it back on, but we are monitoring it every day," said Public Affairs Director Andrea Bradford.

Hobbs is grateful the company deactivated the noisemaker.

"The horn is out. The neighborhood is quiet. I can sleep," Hobbs said. "And I'm much nicer today, I'm not grouchy."

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Screeching noise from cellphone tower frustrates Mooresville family

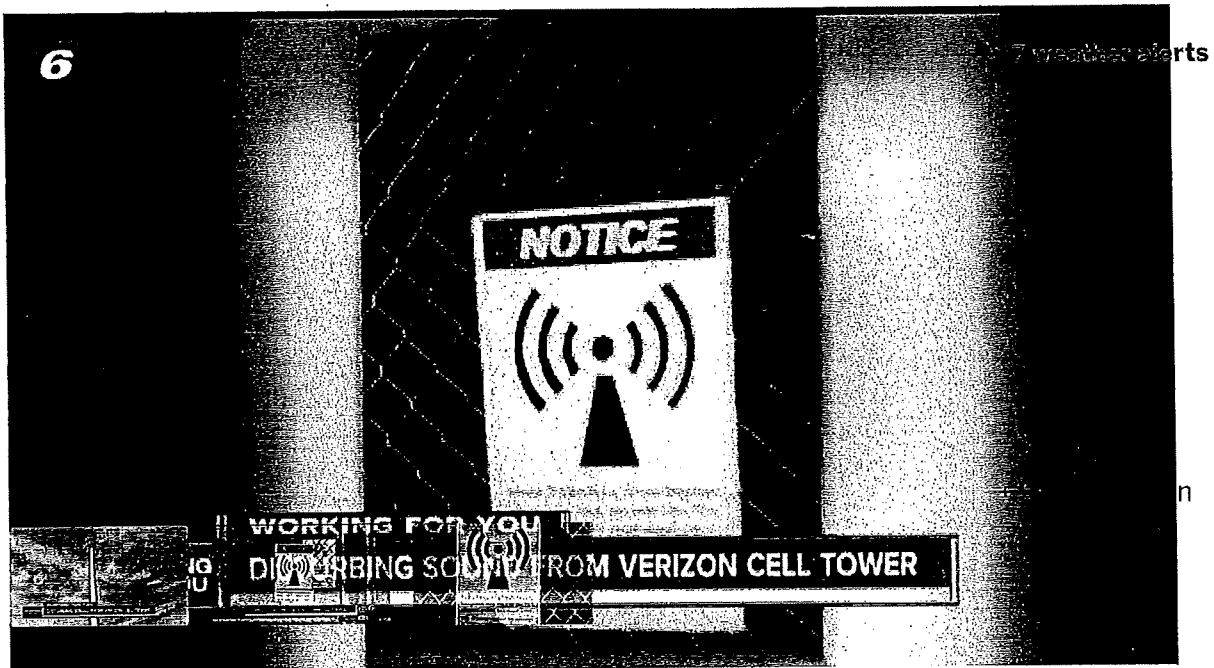
Posted: 6:38 PM, Oct 16, 2018 Updated: 7:44 PM, Oct 16, 2018



By: Nicole Griffin

CLOSE

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MOORESVILLE, Ind. -- Will Adamson first noticed the high-pitched screeching noise Saturday night.

Adamson could hear it from his family's home. He called the police, and they determined it was coming from a Verizon cellphone tower nearby.

"It's screeching - pulling your hair out - crazy mad. I really need someone to come out and shut this noise off," Adamson said.

Adamson called Verizon and reached a technician. He said they told him they weren't seeing any alarms and didn't really know what was going on.

"I felt blown off," he said.

Adamson said he was told Verizon would send someone out first thing Monday morning. But the screeching continued for days.

CLOSE

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"That thing still screaming - all the way until midnight - where I went to bed and here we are," Adamson said. "It does seem quieter now - but who knows."

6 RTV6 INDIANAPOLIS **7 17** weather alerts
A reporter asked Verizon where the noise was coming from, and why. They said it was a false alarm coming from a generator at the cell site. The issue was fixed Tuesday morning.

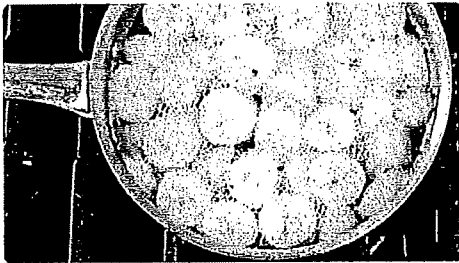
Still, Adamson is now concerned about living so close to the tower.

"It might be quiet now, but what was making the noise? And what kind of frequencies are shooting out of this thing? Makes me wonder if it could be dangerous," he said "It's concerning with kids in the house."

Verizon said Adamson wasn't the only person concerned. People have contacted them, wondering about the health impact due to the radio frequency waves coming from the towers. But Verizon said it's in compliance with all FCC safety standards and their technology is constantly reviewed by health and safety organizations.

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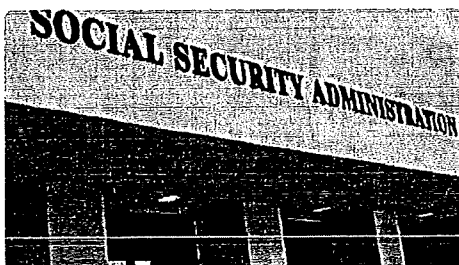
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Burbank ACTION (Against Cell Towers In Our Neighborhood)

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Noise and Nuisance

Get The Cell Out of Here Testimony Of Mr ...



Who wants a noisy cell tower next to your home?

We don't want to live near a T-mobile cell tower base station. It may look like a fake pine tree, but it's still an industrial facility.

In fact, if you're wondering what it's like to live next to and near a T-Mobile cell phone antenna, and all the lights and noise that come with it, listen to Mr. Ken Howard speak before the Glendale's City Council members about his 24/7 experience:

http://www.youtube.com/watch?v=QCaOazQauvc&feature=player_embedded*

(For transcript, see Attachment below.)

Meanwhile, residents in Portland, OR, are angry to

Menu

Burbank residents: Sign our Petition now, "Burbank Residents Oppose Smart Meters":

<http://burbankaction.wordpress.com>

Visit our Burbank ACTION blog:

<http://burbankaction.wordpress.com>

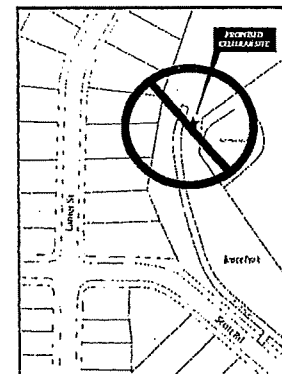
Calendar - upcoming events:

<http://burbankaction.wordpress.com>

Go to our "Smart Meter Concerns" Section:

<https://sites.google.com/site/smart-meter-concerns>

Join our facebook page - network, share and post info that's going on in your community, inform and help other communities



Click below for more info:

**** Resident website for those in Portland opposing the massive Clearwire deployment there:**

<http://www.respectpdx.org>

Residents in Blaine, MN, where Clearwire is deploying, are also upset for aesthetic and other reasons. Read "Blaine Residents Oppose Wireless Tower in Park" (Dec. 16, 2009) at http://abcnewspapers.com/index.php?option=com_content&task=view&id=10258&Itemid=27. The article mentions how Clearwire is working on 644 sites in Duluth, MN. Just go to Yahoo or Google and type in the keywords "residents oppose Clearwire" to pull other stories about upset residents trying to fight Clearwire installations across the nation.

Consumers are upset at Clearwire for other reasons. Clearwire is currently involved in a class-action lawsuit regarding its service quality, advertising, and termination fees. Consumers are reportedly upset when they try to terminate their contracts upon being dissatisfied with the service and/or move out of an area that Clearwire services. Read "Clearwire target of class action suit alleging false advertising," <http://www.muniwireless.com/2009/04/23/clearwire-target-class-action-suit/> and "Clearwire Slapped with Class Action" at <http://www.consumeraffairs.com/news04/2009/04/clear> and "Clearwire Subscriber File Lawsuit" (with a link to one of the law firms representing consumers at the end of the report) at <http://www.legallawhelp.com/news/2009/04/28/clearwire-subscribers-file-lawsuit>

Also read Attorney Jonathan Kramer's article and background information about Clearwire on his website: <http://telecomlawfirm.com/clearwire/index.php>

- [June 14, 2010 Study Session and Upcoming TBD Community Meeting](#)
- [Dec. 8, 2009 Study Session & City Hall Meetings](#)
- [Nov. 16, 2009 Planning Board and Nov. 17 City Hall Meetings](#)
- [November 12, 2009 Public Meeting](#)

City of Burbank website: Wireless ordinance updates

Burbank Leader Newspaper Stories and Editorials

Tools: Reasons To Deny A Proposed Cell Tower and/or push for stronger regulations:

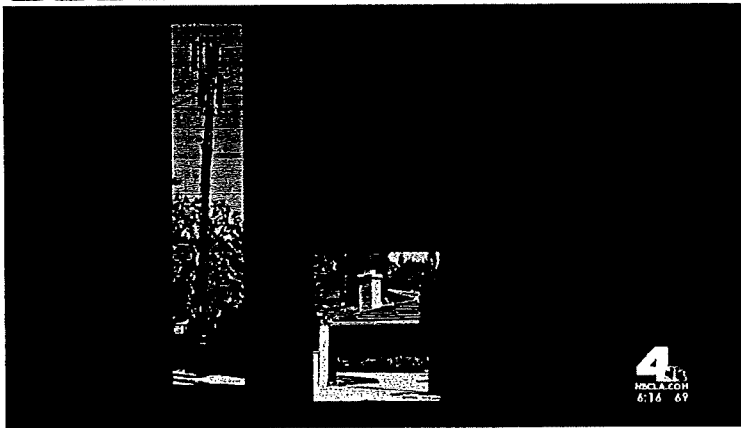
- [Reasonable Discrimination Allowed](#)
- [Decrease In Property Value](#)
- [We Already Have Good Coverage: Significant Gap and 911](#)
- [Alternative Locations and Supplemental Application forms](#)



Stalked By a Cell Tower: "It's Been A Nightmare"

By Andrea Park and Randy Mac

Published May 12, 2015 at 1:13 PM | Updated at 8:39 PM PDT on May 12, 2015



A Tarzana couple is fighting to remove a noisy Verizon cellphone tower located just feet from their home. Randy Mac reports for the NBC4 News at 6 p.m. on Tuesday, May 12, 2015. (Published Tuesday, May 12, 2015)

- Couple Fights to Remove
- Scam Targets' Job Seekers
- Caltrans Homes Sell for Original Low Price, Judge Says
- Nipsey Hussle Murder Suspect Arrested

A Tarzana couple is fighting for the removal of a noisy Verizon cellphone tower located just feet from their master bedroom window that can be spotted from nearly every part of their property.

"It's been night and day we hear this constant humming," Michelle Hager told the NBC4 I-Team.

In hotter weather, she and her husband Mark speculated that cooling fans are adding to the din when temperatures rise.

"Summer nights, we can't open our windows," said Mark Hager said.

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Rebecca helps Kate and Toby care for baby Jack...

Police Say To Carry This

TrySafePersonalAlarm.com

Police say everyone should carry this new safety device that protects against attackers.

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- VIDEO | Suspected Killer of Rapper Nipsey Hussle Arrested: Police
- VIDEO | Homeless Encampment Shooting Rattles Mar Vista Residents

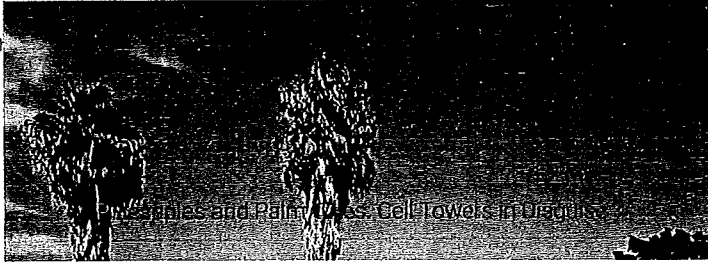
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Verizon erected the tower three years ago on a spot once occupied by a smaller utility pole. The couple says they were given no notice, that they've been plagued by the noise, and that they have feared for their safety and health ever since.

"We're concerned about the placement of it," Michelle Hager said. "It towers over our house."

The Hagers worry that in the event of an earthquake or accident, the tower could crash on top of their home.

- Is Your Car a High-Tech Target? How to Protect Yourself

They're also concerned about potential health consequences of the radio-frequency (RF) signals emitted by the tower.

"There are people (who) say this causes cancer," Mark Hager said.

In 2011, the World Health Organization's International Agency for Research on Cancer (IARC) classified environmental exposures classified radio-frequency electromagnetic fields as "possibly carcinogenic to humans." However,

- "I Don't Want to Hear It": Woman Fights to Stop Church Bells

the IARC concluded that the current evidence

was inadequate to draw a firm conclusion about the cancer risk.

The Hagers also fear the tower will decrease their property value.

- Crash Survivor Gets Special Bed in Wake of I-Team Investigation

"Who wants to move into a house that has a cellphone tower hovering over?" Mark Hager said.

"It's been a nightmare," Michelle Hager said.

The couple showed the I-Team a petition signed by more than 60 neighbors, requesting that Verizon move the tower.

- Defend Yourself Against Telemarketer Tricks

Verizon declined the I-Team's request for an on-camera interview, but the company emailed a statement:

"The Verizon Wireless site in Tarzana has been providing wireless coverage and data capacity to customers throughout the neighborhood since September, 2009. It complies with federal, state and local requirements. In fact, Verizon conducted a

WHAT DO YOU THINK? 60 NewsConference

Unnamed White House officials have said that the economic and diplomatic effects of closing the border could be "catastrophic." Do you think President Trump should still consider closing it down to combat the migrant crisis?

- Yes, it's completely necessary, risks and all
- No, the potential effects are too risky
- Other
- No opinion

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Police Say To Carry This

TrySafePersonalAlarm.com

Police say everyone should carry this new safety device that protects against attackers.

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scientific noise test earlier this week and the data showed that the site's loudest

Verizon continues to upgrade its sites like the one in Tarzana to stay far ahead of rising consumer demand for data services. Planning ahead like this is why Verizon customers and first responders are able to use their phones and tablets when and where they need to — and not just today, but for years to come.

Verizon remains committed to investing in its network throughout Los Angeles to ensure that Angelenos have the mobile broadband they deserve and expect."

The I-Team took the couple's concerns to Los Angeles City Councilman Bob Blumenfield, who represents their district, and has written to Verizon on their behalf.

"If it's a nuisance for one of my constituents, it's a nuisance for me and I want to help," Blumenfield said.

But other than sending a written plea, the councilman said he is "powerless" when it comes to getting the tower relocated.

Health guidelines for cell towers are overseen by the federal government. The pole itself is still considered a utility pole, which is regulated by the state.

The I-Team is awaiting comment from state and federal regulators regarding the Hager's complaints.

Blumenfield said an attempt to relocate the tower on the basis of the noise it's making was unsuccessful.

"The noise levels haven't exceeded what's acceptable (according to Los Angeles city noise ordinances)," Blumenfield explained.

The Hagers say they'll take their fight to Sacramento and Washington, D.C., next.

"If it was in the back of our house, we probably would be able to deal with that, but the fact that it's directly in front of our house is the bigger issue," Mark Hager said.

Unhappy about a proposed cell tower in your neighborhood? Here are actions to take:

- Consult other neighbors, your neighborhood association and/or your neighborhood coalition.
- Learn about your city's ordinance and codes regarding cell towers.
- Ask your local city leader to get involved.
- Ask wireless company proposing tower if alternate sites have been considered.
- Create a petition, gather signatures,
- Live In a historic neighborhood? See if California's State Historic Preservation Office (SHPO) will get involved.

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FROM THE CO-CHAIR

MESSAGES FROM S. STEWART, ONE OF THE LAND USE CHAIRS FOR THE MT. TABOR NEIGHBORHOOD ASSOCIATION (PORTLAND, OREGON)

SUNDAY, JANUARY 10, 2010

The Noise of Clearwire's Wireless-Internet

Clearwire promises to blanket our city in wireless internet connectivity. They appear to be blanketing our city in noise.

In October of 2008, Clearwire installed a wireless internet device about the size of a refrigerator on a telephone pole on a quiet residential street in the Mt. Tabor neighborhood. (The telephone pole's address is 44 SE 50th Ave.) The residents on this street no longer live in quiet. The Clearwire device has a noisy cooling fan, that cycles on and off 24 hours a day, 7 days a week. It clicks on and off, day and night. While it is on it produces noise audible within the homes nearby. In hot weather, it turns on more often and stays on longer -- which means neighbors have to live with this noise in their bedrooms all summer, or they have to close their windows and live without Portland's wonderfully cool night air.

Not long after this device was first installed, KATU did a short story about it, which you can see here:

<http://www.katu.com/news/35688754.html?video=YHI&t=a>

The amount of noise this device makes has fluctuated throughout the past year as neighbors, MTNA, and Paul Van Orden with the city's noise office have harangued Clearwire officials for improvements. Every request was met with a slow response from Clearwire, and on at least one occasion their efforts made the noise get louder and stay that way for months. The first technical readings of the noise produced by this box revealed this device was violating noise codes. When the city's noise officer investigated the technical specs of the device (as supplied by the manufacturer) we discovered it was *designed* to make more noise than Portland's noise codes would allow.

After more than a year of communication between Clearwire, the

BLOG ARCHIVE

- ▶ 2017 (2)
- ▶ 2016 (2)
- ▶ 2015 (8)
- ▶ 2014 (27)
- ▶ 2013 (7)
- ▶ 2012 (5)
- ▶ 2011 (16)
- ▼ 2010 (26)
 - ▶ November (1)
 - ▶ April (2)
 - ▶ March (4)
 - ▶ February (5)
 - ▼ January (14)

Not Your PURB Anymore

Clearwire problems in Florida; residents here and ...

Clearwire wants TALL towers

Letter to Ombudsman regarding incident at PWB Jan ...

Portland Water Bureau doesn't wear gloves?

The "P" in PURB is not for "public"

Drowning in Water Bureau Debt?

Water Bureau doesn't want to give me access

City, the neighbors and MTNA, Clearwire finally produced a fix in early January 2010 that makes this **one** box meet Portland noise codes. I have not seen Clearwire offer to bring the other 50+ boxes located around this city into compliance, and I have not seen them offer to make this "fix" a part of every new box that gets installed.

But, the problem is not gone. I am sad to report that the neighbors closest to this device can still hear the noise it makes, and all of its cycles, inside their homes. It is quieter than it was, but not quiet enough to return the neighborhood to what it was before this box was installed. I draw two conclusions at this point:

1) The noise codes as written are not adequate for items being installed in residential Right-Of-Ways (ROWs). A device on a telephone pole is in a unique position to project noise in all directions and effect many neighbors. The allowed decibel level should be reduced to something that is effectively inaudible to residents sleeping with their windows open in nearby homes.

2) Seemingly, Clearwire is sourcing cheap, noisy fans for their wireless internet products. Portlanders should insist on better, quieter fans, or this city will be blanketed in noise. This box just might appear on a pole outside your bedroom.

POSTED BY S. STEWART, MTNA LAND USE COMMITTEE CHAIR AT 4:27 PM



LABELS: CLEARWIRE'S NOISE

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[Clearwire's Noise](#)

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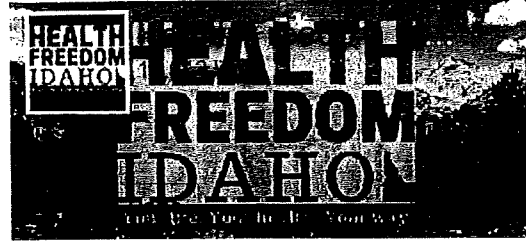
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Declining Near Cell Towers



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Is a cell tower going up in your neighborhood?

Pig Virus DNA Found in Rotavirus Vaccine

(<https://healthfreedomidaho.org/pig-virus-dna-found-in-rotavirus-vaccine>)

When it comes to cell phone towers, there is increasingly the perception that a family does not want to live next to one. There is good reason for this as the research on health effects shows (<https://ehtrust.org/key-issues/the-environment-and-health/wireless-radiation-electromagnetic-fields-increases-toxic-body-burden/>). Unfortunately, laws set in place by the Federal Government in the late 90's forbid Cities and Counties from

(<https://healthfreedomidaho.org/vaccine-choice-attorney-alan-phillips-jailed>)

Vaccine Choice Attorney Alan Phillips Jailed
(<https://healthfreedomidaho.org/vaccine-choice-attorney-alan-phillips-jailed>)

denying
placement of cell
towers based on
health concerns.
Science has
clearly shown
that wireless
radiation is in
fact carcinogenic
to humans. The
guidelines set in
place 20 years
ago do NOT take
into account the
recent scientific
information.

It is the duty of
our elected
officials to
protect citizens
using the
resources they
have available. In
the case of the
placement of cell
towers, they
must make their
decisions based
on property

rights, declining property values and the fact that its an 'eye sore'.



The following articles, videos and studies relate to declining property values around cell tower installations.

Start with this excellent, recent investigative piece by a San Francisco Bay Area journalist as posted by EMFanalysis.com (<https://www.emfanalysis.com/pro>

perty-values-
declining-cell-
towers/.)

Please feel free
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citizens who
have experience
in each category,
to review these
rules and
provide input.
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will be forced to
rely primarily on
legislative
advisers
(lobbyist) to

provide answers
to proposed rule
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to a cell
tower:**

Consum...



<http://www.businesswire.com/news/home/20140703005726/en/Survey-National-Institute-Science-Law-Public-Policy>
(<http://www.businesswire.com/news/home/20140703005726/en/Survey-National-Institute-Science->

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Property Values Declining Near Cell Towers

When it comes to cell phone towers, there is increasingly the perception that a family does not want to live next to one. There is good reason for this as the research on health effects shows.

The following articles, videos and studies relate to declining property values around cell tower installations. Start with this excellent, recent investigative piece by a San Francisco Bay Area Journalist:

ConsumerWatch: 5G Cellphone Towers Signal Renewed Concern...

LI Residents Protest Over Cellphone Repeaters

1.) 94% of people surveyed would not buy or rent a home next to a cell tower:

<http://www.businesswire.com/news/home/20140703005726/en/Survey-National-Institute-Science-Law-Public-Policy>

Here is my TEDx Talk:
"Wireless Wake-up Call"



Get the 7 Most
Important Steps to
Protect Your Family

This is the resource I wish had been available to me when I first started learning about the EMF topic. With this book, you will quickly learn how to find and create a home that is healthy for you and your family.

LEARN MORE

2.) Palo Alto community successfully stops a proposed AT&T cell tower at a Catholic church. They cite a 20% drop in property values in other communities. A very effective campaign for any neighborhood to model:

<http://www.nocelltowerat1095channing.com/>

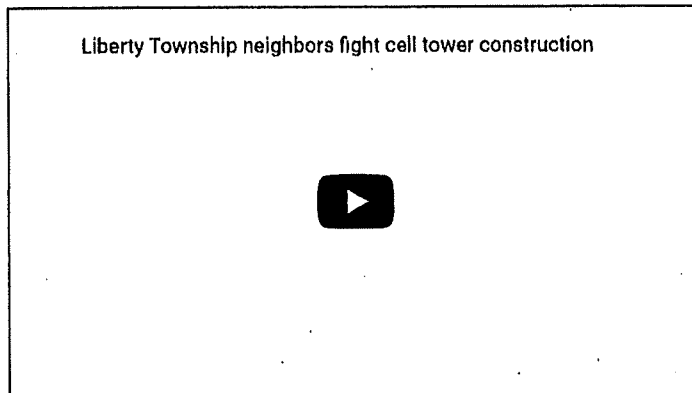
As you can see in this recently NY Times article, Palo Alto residents really don't like having cell towers in their community (even though they are the cradle of wireless technology). What do these tech people know that the rest of the population doesn't?

This community in Berkeley recently did the same thing. They flooded the planning commission with 187 pages of emails against the tower and the application was denied.

3.) Here is an excellent study in *The Appraisal Journal* that shows cell tower installations negatively impact property values.

4.) NY Times article on how realtors have a hard time selling homes next to cell towers:

<http://www.nytimes.com/2010/08/29/realestate/29Lizo.html>



This community woke up one morning to find cell phone companies putting up towers right in their front yards.

5.) This is what the National Association of Realtors has to say on this issue:

<http://www.realtor.org/field-guides/field-guide-to-cell-phone-towers>

6.) Nolo Press article noting successful litigation against cell phone tower installations related to declining property values:

<http://www.nolo.com/legal-encyclopedia/emf-radiofrequency-exposure-from-cell-32210-2.html>

7.) NASA scientist sells home of 25 years in Piedmont, CA (wealthy suburb of San Francisco) because city council approves a DAS cell tower near his home: <http://sanfrancisco.cbslocal.com/2017/11/15/east-bay-homeowners-challenge-proposed-cellphone-towers/>

Learn What EMF Meters I Recommend

LEARN MORE

8.) Excellent summary of various press articles from around the country related to declining property values around cell towers:

<https://sites.google.com/site/nocelltowerinourneighborhood/home/decreased-real-estate-value>

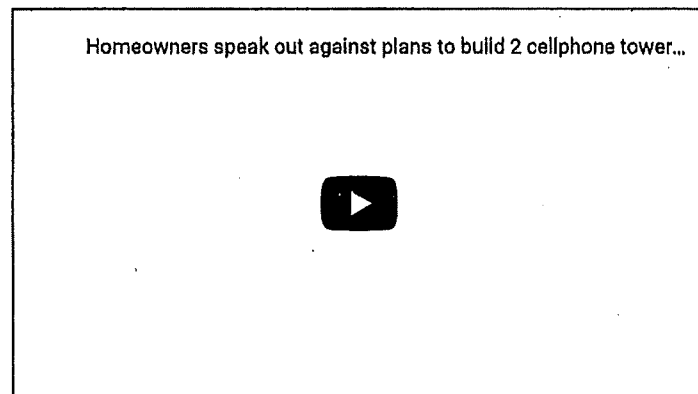
9.) Study using the mapping software GIS to show that property values were higher on average away from cell phone tower installations:

http://www.prrs.net/papers/Bond_Squires_Using_GIS_to_Measure.pdf

10.) New Zealand study showing that property values decrease after cell phone tower installations:

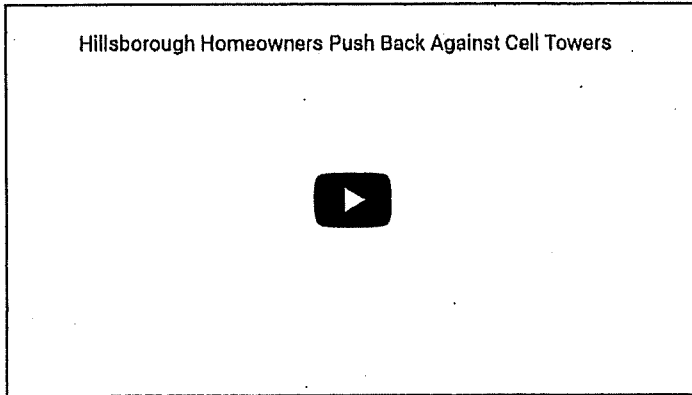
New Zealand Study on Declining Property Values Around Cell Towers

11.) Community stops new DAS cell tower system from being installed based on concerns of property values declining (December 15, 2015):



This is a Distributed Antenna System (DAS) cell tower antenna. Cities like San Francisco are placing multiple antennas like this on every block, right in front of people's homes. They may look innocent, but they are very powerful emitters of microwave radiation that can cause health effects for home owners.

Note: Communities all around the country are stopping cell towers in their tracks. I get emails every week about this. Here is one community in Colorado that stopped a major tower. Also, this community in Berkeley recently stopped a tower from being built. It can be done if you get your entire community involved. The wealthy community of Hillsborough, CA recently stopped 16 cell towers from being installed after citizen outrage over not being included in the planning process:



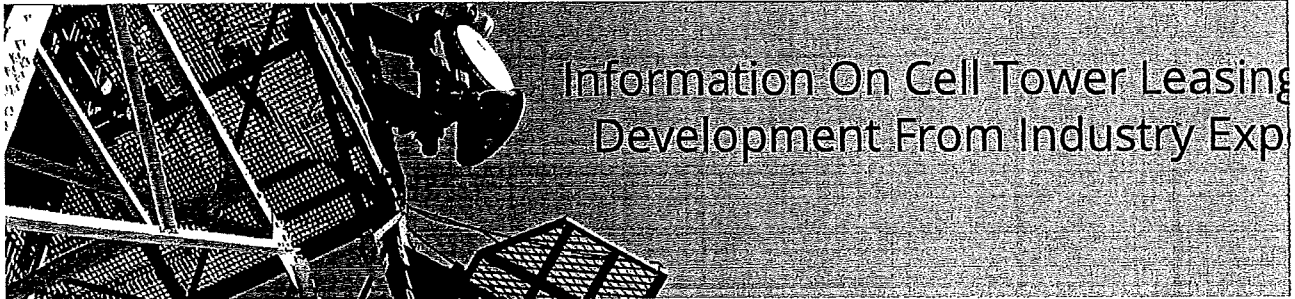
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Tips for Better Brain Health
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Cell Tower Zoning and Permitting



Unless the underlying jurisdiction does not require any zoning at all, most cell towers must be approved by the local land use office prior to some cases, this is as easy as applying for a building permit from the building permit office. Many jurisdictions have created more stringent the placement of cell towers.



Zoning

Zoning is the industry term for the process of acquiring all required permits for a communication tower. While in some areas this process public hearings and notice to all neighbors, in many cases it does not. Since the Telecommunications Act of 1996 was enacted in the US, local are not allowed to "prohibit" the placement of communication towers. They are allowed to regulate how and where the towers are placed overall impact is not to preclude wireless service.

As a result, many jurisdictions (particularly urban and suburban) have enacted cell tower ordinances that prescribe how cell towers can be built and sited. Because jurisdiction is different, it might be easier to discuss some common threads between many ordinances.

Many ordinances:

- Prohibit towers in residential zoning
- Encourage placement of towers in industrial and commercial zones
- Limit the height of the tower to that needed by the wireless carrier
- Require Security Fencing
- Require a "setback" from adjacent property lines – typically equal to one foot for every foot of height of the tower (A 100' tower requires at least a 200' by
- Require that the cell tower is being built for a licensed wireless carrier, i.e., Cingular, Verizon, Nextel, Sprint, AT&T, Alltel, T-Mobile
- Mandate that new towers are not built until it is demonstrated that no existing towers or structures (such as rooftops, water towers) can accommodate the carrier's equipment
- Many times there are notice requirements where neighbors to the property are notified of the proposed tower.

There may also be public hearings required where the public is allowed to comment on the tower. Wireless carriers can spend \$40,000 on a zoning hearing to The process can take upwards of 2 years in some jurisdictions, and there is no guarantee that approval will be granted.

NIMBY

You might see the term "NIMBY" in some articles in the paper or hear it from industry veterans. It refers to individuals who do not want a tower in their back yard. NIMBYs show up at zoning hearings to oppose the placement of a communication tower. They often claim that there are significant health risks posed. Unfortunately, the Telecommunications Act of 1996 prohibits local jurisdictions from denying a tower application on the basis that it is "unhealthy." As long as it meets FCC regulations and guidelines, it is presumed to be safe.

Health is not the only manner in which people oppose towers. They also state that the tower is going to depreciate their home values. There are many different thoughts on the impact of a cell tower on property values. The truth is that both wireless carriers and private landowners have created studies that show no change (carrier) or significant decreases in value (landowner).

Lastly, aesthetic impact of the tower is often cited as a reason for opposing the tower. The reality is that many people cannot correctly name the closest tower. While a tower may be visible initially, it will rarely be noticeable once it has been built for a while. There are numerous ways of "stealth" a communication tower. Include fake trees, fake cactus, fake bell towers, fake flagpoles, etc. See the gallery for some "stealth" installations that we find interesting.

What you can do

Your community planners are interested in hearing your opinion. They value both sides of the cell tower argument; they try to balance the placement of a structure a community may need versus the desires of the majority of its citizens who don't want the tower (but desire the service it provides). Contact your local planner or wireless providers. Or review our webpages on the Future of Wireless and how your community might use Cell Tower Development Standards to better regulate placement of towers.

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Cell Tower Maps Tower Resources Contact

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Wireless Facility Siting: Section 6409(a) Checklist

Note: Use of this checklist is voluntary. It is meant to provide a framework for those jurisdictions needing assistance in complying with Federal timeframes to act on Eligible Facilities Requests for modifications to existing wireless towers or base stations that do not substantially change the physical dimensions of such towers or base stations. This document is not intended to provide legal guidance; jurisdictions are encouraged to consult an attorney on legal matters. This document's authors hereby waive all copyright and related or neighboring rights together with all associated claims and causes of action with respect to this work to the extent possible under the law.

Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012, 47 U.S.C. § 1455(a), reads in pertinent part:

"...a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." (emphasis added).

Initial Application Review

- A jurisdiction should contemplate three types of wireless facility applications:
 - o Collocation or modification that is not a substantial change ("Eligible Facilities Request");
 - o Collocation or modification that is a substantial change; OR
 - o New facility
- If the application is for a collocation or modification, the documentation provided by the applicant must state whether the collocation or modification is a substantial change. – See Appendix A for definition of "substantial change."
 - o Note: The FCC has clarified that "collocation" includes the first placement of transmission equipment on a wireless tower or base station.¹
- Appropriate application fee should be in place, if applicable.
- Check application for completeness
 - o Note: Must notify applicant in writing of incomplete application **within 30 days** of submission. This tolls the clock (i.e. stops 60 day deadline from running) provided it identifies the specific material missing from the application and cites the basis for requiring the submission of such material. Once applicant submits supplemental materials, the clock again may be tolled if the state or local government notifies applicant in writing **within 10 days** that supplemental submission is also incomplete. If the application is deemed incomplete, the written notice must specify

¹ See 2014 Infrastructure Order ¶ 179.

the missing information and the code, provision, ordinance, application instruction or other publically-stated procedures that requires the information.

Site/Attachment Information

- Summary of site location (address) and ownership of structure to which collocation or modification applies
 - o Examine: Ownership of support structure, dimensions of support structure prior to collocation (to measure whether collocation or modification would constitute a "substantial change")
 - o Property boundaries, setbacks, elevation and dimensions of collocation or modification project
- Summary and scope of work to be completed on site
- Changes to current site
 - o Examine: Will collocation or modification defeat the effect of existing concealment elements? Concealment elements include, but are not limited to, artificial tree branches or painting to match a supporting façade.²

Equipment Specifications

- Equipment type
- Equipment specifications (Example: dimensions and weight)
- Installation status: E.g., removing, updating, collocating
- Equipment mount type
- FCC antenna structure registration number (if applicable)
- Will collocation equipment require lighting?

Compliance with Federal, State and Local Ordinances and Codes

- Conformance with local zoning and building and safety codes should be reviewed by the jurisdiction's building or planning department
 - o Examine: E.g., setback requirements, electrical power safety, wind resistance safety
 - o Ensure that facility was lawfully constructed
- Post-installation maintenance schedule
- Any required certifications
 - o Example: Applicant will comply with all applicable federal, state, and local building codes supported by structural analysis

Legal

- Ensure jurisdiction's applicable insurance/surety bond/other financial requirements are satisfied for installation

² See 2014 Infrastructure Order ¶ 200.

Contact Information

- Primary and secondary contact information for wireless facility project coordinators (local government and industry)
- Emergency contact information in case of tower/collocation disruption

Timeframe³

- Within 60 days of the application filing, accounting for tolling, a state or local government shall approve the application if covered by Section 6409(a).
- Tolling period may commence by (1) mutual agreement, or (2) upon written notice to applicant that application is incomplete within the first 30 days following an application submission, as long as notice identifies the missing information, as well as the code provision, ordinance, or application instruction that requires the submission of the information.
- Local jurisdictions have 10 days to notify the applicant that the supplemental submission (after notification of incomplete application) did not provide the information identified in the original notice that specified the missing information.
- The failure to approve an application within the time for action will result in a deemed grant of the application.
 - o A state or local authority may challenge an applicant's written assertion of a deemed grant in any court of competent jurisdiction when it believes the underlying application did not meet the criteria in Section 6409(a) for mandatory approval, would not comply with applicable building codes or other non-discretionary structural and safety codes, or for other reasons is not appropriately "deemed granted."

³ All provisions of the rule implementing Section 6409(a), as stated in the 2014 Infrastructure Order and 47 CFR § 1.40001 ("Wireless Facilities Modifications") became effective May 18, 2015.

APPENDIX A

How does the FCC define "substantial change"?

The FCC has determined that a modification substantially changes the physical dimension of a wireless tower or base station if it meets ANY of the following criteria:

- ❖ Towers outside public rights of way⁴
 - Increases height by more than 20 feet or 10 percent, whichever is greater;
 - Protrudes from edge of tower more than 20 feet or more than the width of the tower structure at the level of the appurtenance, whichever is greater;

- ❖ Towers in public rights of way and for all base stations
 - Increases height of tower or base station by more than 10 percent or 10 feet, whichever is greater;
 - Protrudes from the edge of the structure more than 6 feet;

- ❖ Involves installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets;

- ❖ Entails any excavation or deployment outside the current site of the tower or base station;

- ❖ Would defeat existing concealment elements of the tower or base station; or

- ❖ Does not comply with conditions associated with the prior approval of the tower or base station unless non-compliance is due to an increase in height, increase in width, addition of cabinets, or new excavation that does not exceed the corresponding "substantial change" thresholds.

⁴ Section 6409(a) applies only to state and local governments acting in their role as land use regulators and does not apply to such entities acting in their proprietary capacities, e.g., as owners of support structures or real property. See 2014 Infrastructure Order ¶ 239.

APPENDIX B

Application Elements that May Voluntarily be Adopted by Local Jurisdictions

A jurisdiction should review whether existing application processes meet the requirements of the FCC's 2014 Infrastructure Order. A jurisdiction may consider including the following elements in its application form for an Eligible Facilities Request:

1. Applicant's certification that they have the legal authority to collocate/modify support structure which may include approvals from the jurisdiction authorizing the initial placement of transmission equipment on the tower or other structure.
2. The identity of the owner of the parcel.
3. Detailed site plan. Except where the facility will be located entirely within an existing structure or an existing building, a detailed site plan should show:
 - (a) Existing and proposed improvements. The location and dimensions of the existing facility and the maximum height above ground of the facility (also identified in height above sea level).
 - (b) Elevation. The benchmarks and datum used for elevations.
 - (c) Design. The design of the facility, including the specific type of support structure and the design, type, location, size, height and configuration of applicant's existing and proposed antennas and other equipment. The method(s) by which the antennas will be attached to the mounting structure should be depicted.
 - (d) All existing setbacks.
 - (e) Location of accessways. The location of all existing accessways and the location and design of all proposed accessways.

ARTICLE 6

SPECIAL USE PERMIT

6.1 GENERAL

The County may authorize by special permit after public hearing, any of the buildings or uses designated in this Regulation as permitted special uses.

6.2 PROCEDURES

Such application shall be in writing, filed in the Office of the County Clerk, state the proposed location and use of the property, and such other relevant matters as may be requested by the County. Upon receipt of such application, the Zoning Administrator shall forward the application to the Planning Commission for its recommendation. Upon hearing, the Planning Commission shall forward its recommendation to the County Board, within thirty (30) days. Upon hearing, the County Board may allow or deny the application in whole or in part, or prescribe conditions for such use of the property. No special use permit shall become effective until after separate public hearings are held by both the Planning Commission and the County Board in relation thereto, at which parties in interest and citizens shall have an opportunity to be heard. Notice of the purpose, time, and place of such hearing shall be given by publication thereof in a paper of general circulation in the County and in the local newspaper of any county/village/city which has territory within three (3) miles of the property affected by such action of the County Board, one (1) time at least ten (10) days prior to such hearing. (Ref. 23-164 R.S. Neb.).

In addition to the publication of the notice herein prescribed, a notice, in sign form, of the hearing shall be posted in a conspicuous place on or near the property on which such action is pending. The sign shall be placed at least ten (10) days prior to date of each hearing. A notice of the purpose, time, and place of the hearing shall be given in writing to the Chairperson of the County Board, or Planning Commission which has jurisdiction over land within three (3) miles of the property affected by such action. In the absence of a Planning Commission, such notice shall be given to the clerks of units of local government having jurisdiction over land within three (3) miles of the property affected by such action. A written notice of such hearing shall be distributed to record title owners of property located within one hundred (100) feet of the property line of the property requesting the special use permit in incorporated areas and within one (1) mile of the property line of the property requesting the special use permit in unincorporated areas.

Except as otherwise provided herein, no special use permit shall be granted by the County Board (Ref. 23-114.01 R.S. Neb.), without an affirmative vote of a majority of all members of the County Board and providing the proposed use is found to comply with the following guidelines:

1. Be compatible with and similar to the use permitted in the district, and
2. Not be a matter which should require re-zoning of the property, and
3. Not be detrimental to adjacent property, and
4. Not tend to depreciate the value of the surrounding structures or property, and
5. Be compatible with the stated intended use of the district, and
6. Not change the character of the district, and
7. Be in accordance with the Comprehensive Plan.

In case of protest against such special use permit, signed by the owners of twenty (20) percent or more either of the area of the lots included in such proposed change, or of those immediately adjacent on the side and in the rear thereof extending one hundred (100) feet, therefrom, and of those directly opposite thereto extending one hundred (100) feet from the street frontage of such opposite lots, such special use permit shall not become effective except by the favorable vote of two-thirds (2/3 or five (5) members) of the total seven (7) members of the County Board of Supervisors (Section 23-165 of Nebraska Revised Statutes, as amended).

6.3 SALVAGE OR JUNK YARD

Salvage or junk yard operations and related facilities shall only be allowed by Special Permit in the AG-1 Zoning District under the following conditions:

1. The operation shall be located on a tract of land at least one-half (1/2) mile from a residential or agricultural farm residence, as measured from the property line of the salvage operation to the nearest point on the dwelling unit.
2. A remediation fund or bond shall be posted for clean up of facility in the event of abandonment.

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[QUESTIONS & ANSWERS](#) [LINKS](#) [CONTACT US](#)

Questions & Answers

Below is a list of the most common questions which both individuals and zoning boards often have about Cell Towers. To get answers, simply click on the links. For studies and information regarding the potential adverse health effects caused by Cell Towers, you can also go to the **Links** section of this website.

[+] [What is the Telecommunications Act of 1996?](#)

[+] [Do property owners have a right to oppose the approval of Cell Tower applications?](#)

Absolutely. Aside from your rights, under state law, to be heard at public hearings, you also have a right to submit opposition to Cell Tower applications, under the 1st Amendment to the United States Constitution, which guarantees your right to petition government for the redress of grievances.

Under this guarantee, you have a U.S. Constitutional right to be heard before town boards, planning boards and zoning boards, and to make submissions to oppose any Cell Tower application pending before any such local boards.

In exercising such state and federal rights, you have the right to fight against sustaining a loss to the value of your property as a result of the installation of a Cell Tower in close proximity to your property.

You can exercise these rights to protect yourself, your family, friends and neighbors against the dangers of Cell Tower collapse, and to fight against having the installation of a Cell Tower which would adversely affect the character or aesthetics of your neighborhood.

You have the right to assert all factual grounds upon which a respective application should be denied, and all legal grounds upon which a respective Cell Tower application should be denied, or in some cases, must be denied as a matter of law.

To exercise such rights, of course, you will need to recognize both the factual and legal grounds upon which to challenge a Cell Tower application, and the manner in which to assert such challenges.

Where such rights have been exercised effectively, individuals and civic associations have defeated carrier's efforts to install one or more Cell Towers near their respective homes or businesses.

They have even forced a carrier to tear down a Cell Tower, despite the fact that construction of the Tower was already 75% complete, with its foundation installed to completion, and the first 50 feet of the 100 foot tower already having been installed.

HOME KNOW YOUR RIGHTS TESTIMONIALS ATTORNEYS IN THE NEWS
QUESTIONS & ANSWERS LINKS CONTACT US

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- [+] [What is the Telecommunications Act of 1996?](#)
- [+] [Do property owners have a right to oppose the approval of Cell Tower applications?](#)
- [+] [Can local Zoning Boards legally deny applications to install Cell Towers?](#)

Of course. There is a moderately wide range of legally valid basis upon which a local zoning board, planning board or town board may deny, and in fact, may be legally compelled to deny, an application for the installation of a Cell Tower.

What is critical to their decision is that:

- (a) they cannot base a denial upon the potential adverse health impact of the RF emissions from the Cell Tower, because that would run afoul of the Telecommunications Act of 1996,
- (b) the denial of such an application must be based upon a legally recognizable basis, and
- (c) they must create a record which clearly sets forth that the denial was premised upon the legally recognizable basis, and the evidentiary grounds which lead them to reach their decision.

If a board fails to meet any of the above three criteria when it denies a wireless company's Cell Tower application, the Town should recognize the possibility of being sued in federal court by the respective wireless company, in a lawsuit within which the wireless company will seek to obtain a federal Court order directing the Town to permit the Cell Tower to be installed.

[See also *What is the shot clock?* below for further details]

① most properties are further away from a Retail Area

Exhibit 14 to CARB. 2004 COMMISSION

Blue Sky towers

Alternative Site Analysis for Mashpee MA

Address	Owner	Zoning Dist.	Map / Lot	Current Use	Acreage	Candidate Feasibility
101 Red Brook Rd	Town of Mashpee	R3	104 / 2	Fire Station	37	<ul style="list-style-type: none"> Primary Candidate. Parcel selected by Town for Request for Proposal.
36 DeGrass Rd	Town of Mashpee	R3	103 / 8	Woodland	2.72	<ul style="list-style-type: none"> Conservation land/Town-owned parcel smaller than preferred site
56 Blue Castle Dr	BCDM LLC	R3	104 / 14	Woodland	2.88	<ul style="list-style-type: none"> Same zoning relief Parcel is of insufficient size to place a tower facility
57 Blue Castle Dr	BCDM LLC	R3	104 / 20	Woodland	8.83	<ul style="list-style-type: none"> Same zoning relief Residential parcel
Great Hay Rd.	Town of Mashpee Conservation Commission	R3	103 / 118	Woodland	6.87	<ul style="list-style-type: none"> Same zoning relief Land owned by the Town's Conservation Commission SOUTH MASHPEE PINE BARRENS CONS AREA GREAT HAY ACRES CLUSTER OPEN SPACE Same zoning relief Conservation land Trust for public land Same zoning relief
Great Oak Rd	USA	R3	110 / 98	Woodland	129.14	<ul style="list-style-type: none"> Same zoning relief

Woodlands

PG-1 OR 3

Address	Town of Mashpee Conservation Commission	Zoning	Lot Area	Woodland	Area	Notes
Woodland 156 Great Oak Rd.	Town of Mashpee Conservation Commission	R3	110 / 71	Woodland	12.6	• Land owned by Town's Conservation Commission
ACROSS THE STREET 200' Street	RED HORSE LLC	R3	110 / 96	Residential	6.95	• Same zoning relief • Residential Equestrian Compound
North 1078 Great Hay Rd.	Comm. Of Mass	R3	103 / 12	Woodland	26.6	• Same zoning relief • Conservation
North 1055 Great Hay Rd.	Town of Mashpee	R3	98 / 8A	Woodland	3.34	• Same zoning relief • Conservation
North 43 Coombs Ave	Comm. Of Mass.	R3	98 / 6A	Woodland	4.62	• Same Zoning Relief • Conservation
North 34 Coombs Ave	Town of Mashpee	R3	103 / 14	Woodland	4.93	• Same Zoning relief • Conservation
North 26 Coombs Ave	Town of Mashpee	R3	103 / 13	Woodland	6.18	• Same Zoning relief • Conservation
North 1139 Great Hay Rd	Comm. Of Mass.	R3	103 / 10	Woodland	64.12	• Same Zoning relief • Conservation
WEST 78 Adams Rd.	USA	R3	109 / 6	Woodland	72.85	• Same Zoning relief • Conservation
Woodlands 36 Wells Rd.	Comm. Of Mass.	R3	115 / 20	Woodland	35.26	• Same Zoning relief • Conservation
Woodlands 27 Wells Rd.	USA	R3	115 / 21	Woodland	12.52	• Same Zoning relief • Conservation
Woodlands 593 Wells Ave	Town of Mashpee	R3	115 / 22	Woodland	7.64	• Same Zoning relief • Conservation
EAST 58 Red Brook Rd.	New Seabury Prop. LLC	R3	110 / 58	Woodland	4.09	• Same Zoning relief • Residential
EAST 86 Red Brook Rd.	STARUCH THOMAS & JEAN	R3	110 / 62	Residential	3.28	• Same zoning relief • Residential • Same zoning relief

PG-2

<i>North</i>	77 Coombs Rd	Comm. Of Mass.	R3	98/4	Woodland	5.01
	93 Coombs Rd	Comm. Of Mass.	R3	98/3	Woodland	4.96
	167 Old Ockway	Town of Mashpee	R3	98/1	Woodland	11.69
<i>SW</i>	95 Amy Brown	HARRINGTON BERTHA JACK	R3	115/4	Woodland / Marsh	4.97
	Rock Landing Rd	New Seabury Prop. LLC	R3	116/74A	Commercial	24.84
<i>Water Dept</i>	111 Rock Landing Rd	New Seabury Prop. LLC	R3	116/73	Commercial	14.23
	Rock Landing Rd.	New Seabury Prop. LLC	R3	116/74B	Commercial	28.96
<i>East</i>	20 Red Brook Rd.	BRENNAN STEPHEN T TRUSTEE	R3	116/74	Woodland / Commercial	15.73
	540 Great Neck Rd	ZOCCHI MARY E	R3	99/40	Residential	9.70
<i>East</i>	35 Little Neck Rd	New Seabury Prop. LLC	R3	105/19	Marsh	3.35

- Same Zoning relief
- Conservation
- Same Zoning relief
- Conservation
- Same Zoning relief
- Conservation
- Same Zoning relief
- Outside of search area; will not close significant coverage gap
- Same Zoning relief
- Outside of search area; will not close significant coverage gap
- Same Zoning relief
- Outside of search area; will not close significant coverage gap
- Same Zoning relief
- Outside of search area; will not close significant coverage gap
- Same Zoning relief
- Outside of search area; will not close significant coverage gap
- Same Zoning relief
- Close proximity to residences
- Outside of search area; will not close significant coverage gap
- Residential
- Same Zoning relief
- Close proximity to other residences

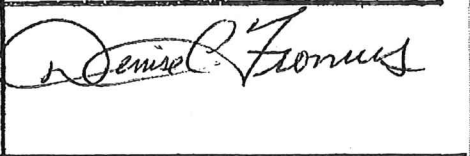


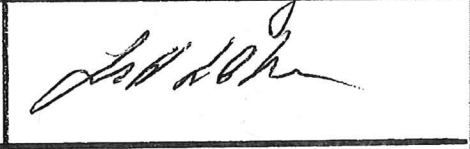
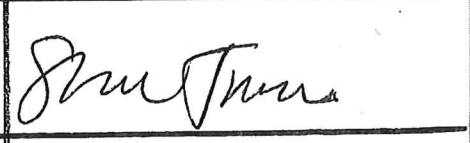

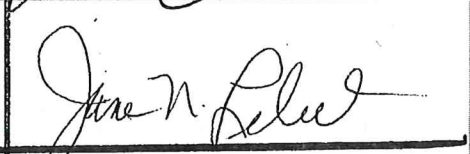

PG-3

	Address	Owner	Acreage	use	map	Panel
58	Redbrook Rd	New Seabury Property	4	open	110	58
89	Great oak	New Seabury Property	0.25	open	110	57
47	Great oak	New Seabury Property	1.4	open	110	97
111	Rock landing	Mashpee Water District	15.2	Mix-Open	116	73
0	Rock landing	New Seabury beach club	26.8	Open driving range	116	74A
0	Rock landing	New Seabury Property	27.5	Mixed-open	116	74B
178	Great oak	Orenda land trust	24.3	open	116	75
20	Redbrook rd	Stephen Brennan	16.29	Mixed open	116	74
	Valle LN	New Seabury Property	0.45	open	116	75B
36	Great oak	Unknown "G" tax collected	1.2	open	116	84
	Wells Rd	Comm of mass	35.2	open	115	20
93	Great oak	New Seabury Property	3	open	121	25
20	Greenward Rd	Amanda Burden	0.83 AZ	open	122	21
91	troon knob	New Seabury Property	1.3	open	122	56
	Greenward	New Seabury Property	20.3	open	122	22
47	Greenward					
	Great oak	New Seabury Property	1.3	open	121	24
	Great Hay Rd	Arthur Andrade	2.3	open	121	103
14	Walton Heath	New Seabury Property	0.5	open	121	63
16	Rainway LN	New Seabury Property	1.1	open	121	64
400	Parway LN	New Seabury Property	0.5	open	121	65
494	Great oak	New Seabury Property	12.5	open	126	10
	Great oak	Comm of mass	39	open	126	5

22 Alternative sites
 Property 211 South of Proposed site

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Denise Fronius	1178 Great Hay Rd.	
Scott Fronius	" " " "	
Rich Mooney	52 Gla Lane	
Jill DeGrass	48 DEGRASS RD	
Dannon Trabucco	108 Degrass rd	
Anthony Trabucco	108 Degrass RD	
Jane Lebel	40 LISA LN.	
John Lebel	40 LISA LN	

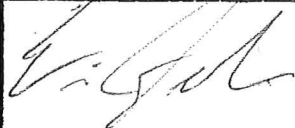
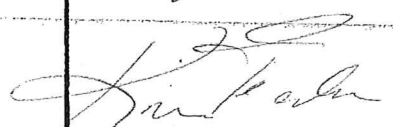
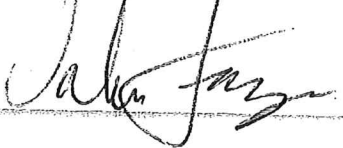
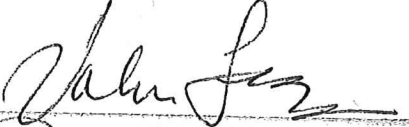
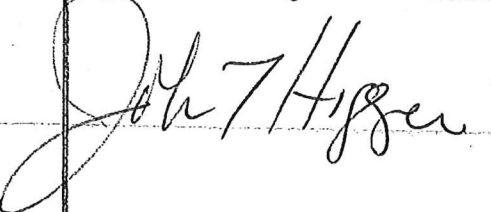
To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Valerie Graham	108 Algonquin Av Mas	<i>Valerie Graham</i>
James Graham	" "	<i>James Graham</i>
Jeremy Graham	64 Gunthers Rd Mashpee	<i>Jeremy Graham</i>
Karl Wuechler	148 Algonquin Ave	<i>Karl Wuechler</i>
Claudia Fernandez	86 Old Colony Dr Mashpee	<i>C Fernandez</i>
CASSIE FERNANDES	" " "	<i>Cassie Fernandes</i>
Carly Campbell	35 Ashmet Rd Unit 1D	<i>Carly Campbell</i>

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Eric Federico	12 Cambridge Dr.	
KAREN FEDERICO	12 CAMBRIDGE DR.	
ANN WHITLOW	89 Captains Row	Ann Whitten
	64 Sunset Circle	
JOHN HIGGINS	64 Sunset Circle	

To: Mashpee Planning Board

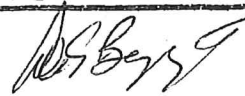


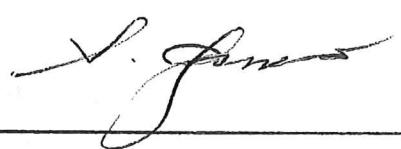

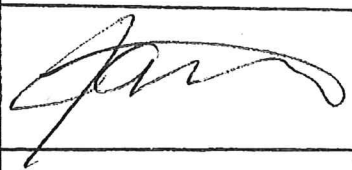

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Dennis Scannell Digna Scannell	108 Degrass Rd 108 Degrass Rd	Dennis Scannell Digna Scannell
Patrick J. Dale Brendon Scannell	38 Jones Drive 108 Degrass Rd	Patrick J Dale Brendon Scannell
Dawn Rebello Dawn Rebello	95 Degrass Rd	Dawn Rebello
Dawn Rebello Dawn Rebello	25 USQ Lane Mashpee	Dawn Rebello
ROBERT REBELLU Robert Rebello	95 Degrass Rd	Robert Rebello
Chris McDonald	103 Degrass Rd	Chris McDonald
Jennifer MacDonald Jennifer MacDonald	103 Degrass Rd	Jennifer MacDonald
Erin Baumgaertel Brian Baumgaertel	119 Degrass Rd	Erin Baumgaertel Brian Baumgaertel
Margo Cutler	121 Degrass Rd	Margo Cutler

8

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
AL BAGG	89 SUNSET CIRCLE MASHPEE MA 02649	
Mike Sliva	94 Red Brook Rd, Mashpee MA 02649	
Marie Robertson	22 Sunset Cir. Mashpee	Marie Robertson
LAWRENCE ROBERTSON	22 SUNSET CIR. MASHPEE	
SUSAN JAMESON	14 SUNSET CIR MASHPEE	
FRANCES MADDEN	16 SUNSET CIR Mashpee	
Jamie Vincent	62 James Circle Mashpee, MA 02649	
Ed Bagg	7 Florence Ave MASHPEE	

3

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
MARK WALTERS	10 JAMES CIRCLE	<i>Mark Walters</i>
Gypsy Mall	15 JAMES CIRCLE	<i>Gypsy Mall</i>
Robyn Thibe	40 JAMES CIRCLE	<i>Robyn Thibe</i>

To: Mashpee Planning Board


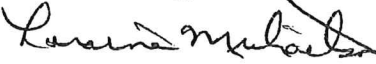


We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Pat Bartel	1 Wampanoag Mashpee	Pat Bartel
JEFFREY DOE	18 STONY BROOK DR	Jeffrey Doe
Kary Tolda	16 King Hill Rd	Kary Tolda
Jodi Champagne	3 Shyres Wheel Drive	Jodi Champagne
Diane Cook	19 Pem Lane	Diane Cook
Richard Cook	19 Pem Lane	Richard Cook
Nathan Peterson	112 Wading Place Rd.	Nathan Peterson
Nancy Percy	113 Ashomet Rd	Nancy Percy
Ronald A. Percy	113 Ashomet Rd	Ronald A. Percy
Jacquie Lynch	3 Lelys Slipper Ln	Jacquie Lynch

4

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Peter J. Michaelson	140 Degrass Road	
Laraine Michaelson	140 Degrass Road	
Teresa Ronhoch	82 Sunset Circle	
Michael Ronhoch	82 Sunset Cir	

7

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Debbie Lynch	3 Lady's Slipper Ln	Debbie Lynch
Taylor Percy	113 Ashumet road	Taylor Percy
Scott Matosian	73 Thornberry Circle	Scott Matosian
Hayden Kilpatrick	3 Tracy Ln	Hayden Kilpatrick
Peter Matosian	73 Thornberry circle	Peter Matosian
Alan Matosian	73 Thornberry Circle	Alan Matosian
Tim Lynch	3 LADY'S Slipper lane	Tim Lynch

8

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Betsy Magnuson	135 West Pines, Mashpee	Betsy Magnuson
Joe Nasuti	8 Yachtsman Circle	Joe Nasuti
Rachael Crawford	7 Yachtsman Circle	R. Crawford
Eric Lubrano	85 Blue Castle Dr.	Eric Lubrano
Lauren Robert	75 Degraw Rd	Lauren Robert
Dana Robert	75 Degraw Rd	Dana Robert
Mark Manning	67 Degraw Rd	Mark Manning
Mike Avent	81 Degraw Rd	Mike Avent

9

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Jennifer LeFavor	38 Ladys Slipper Ln	Jennifer LeFavor
Charlene Cramer	47 County Rd	Charlene Cramer
Cynthia Smith	70 Sunset Circle	Cynthia Smith
Jason Smith	70 Sunset Circle	Jason Smith
Martine Boehne	241 Great Pines Dr	Martine Boehne
Jean G. Taylor Lisa G. Taylor	237 Great Pines Dr	Jean G. Taylor
Gisely Fish	187 Great Pines Dr.	Gisely M. Fish
Tucker Hathaway	10 Green Meadows Cr	Tucker Hathaway
Rob MAHER	146 GREEN PINES DR	Rob MAHER

9

To: Mashpee Planning Board


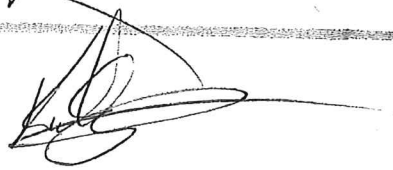

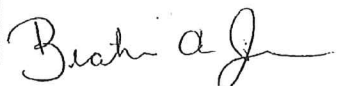

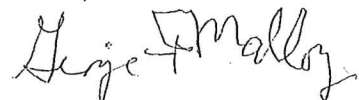

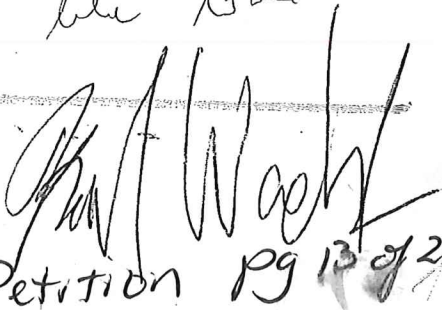
We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
EARL LUBELCZYK	56 TRACY LN	Earl Lubelczyk
KAREN WALDEN	46 CIA LN	Karen Walden
RICHARD WALDEN	46 CIA LANE	Richard Walden
LINDA LUBELCZYK	56 TRACY LN.	Linda Lubelczyk
DAN KUPFERMAN MAYAN MURPHY	53 TRACY LANE	Dan Kupferman
MARC BURKE	24 Degrass Rd	Marc Burke
JUDY BURKE	24 Degrass Rd	Judy Burke
ROBERT COLEMAN	87 OLD GREAT NECK RD	Robert Coleman
JANEY CATALDO	62 Tracy lane	N Cataldo

8

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
MARISA Miyone Devine	94 Shields Rd Mashpee	
Rachel Kay (Hammonds)	47 Musket Lane Mashpee	
Abstract		
Ellen Waechter	148 Algonquin Ave	
Beatrice Jackson	300 Falmouth Rd Unit 16D Mashpee MA 02649	
Chelsea Cascen	35 Ashumet RD Mashpee 02649	
George Malloy	110 Whipperwill Circle	
Lulu Wins URSULA WIRE	84 Cayuga Ave Mashpee MA 02649	Lulu Wins
	148 Algonquin Ave Mashpee Ma.	

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Alexander Slavin	86 Degross Rd Mashpee MA 02649	Alexander Slavin
Julia Horton	195 Falmouth Rd. 02649	Julia Horton
Jean Nousse (Eugenia)	300 Falmouth Rd Mashpee Ma. 02649	Eugenia Nousse
CLAIRE O'DONNELL	17 RED CEDAR RD MASHPEE, MA 02649	Claire O'Donnell
D. JEAN SCANNELL Scannell	54 Gold Leaf Lane Mashpee, mass 02649	D. Jean Scannell
MAYNIE A. DEAN MARTERIE A. DEAN	34 Quicket Woods Dr Mashpee	Maynie A. Dean
PATRICIA FAY	40 Center St Mashpee	Patricia Fay
JAN HUTCHENRIDER	174 Howell Rd Mashpee	Jan A. Hutchenrider
PAM PINDY S	55 Winkgreen Rd Mashpee, Ma	Pam Pindy S Petition #14 of 20






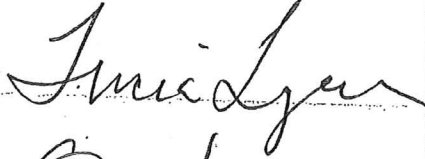
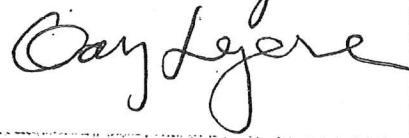

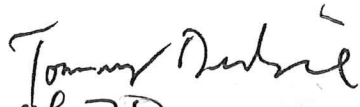
To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Christine Fitzpatrick	27 Butler Ln Mashpee	<i>Christine Fitzpatrick</i>
Shawn Fitzpatrick	27 Butler Ln Mashpee	<i>Shawn Fitzpatrick</i>




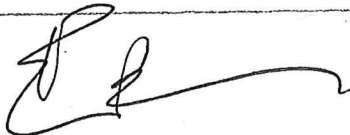
To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Claudia Froynto	45 Wintergreen Rd.	
Sharon K Muller	693 ETR North Red So	
Sharon De Francesco	80 SCITUATE Rd	
Denise Dubie	20 Drew Lane	
Michelle Dubie	20 Drew Lane	
Tricia Legere	10 Matchewuttah	
Gary Legere	10 Matchewuttah	
DANIEL BRANN	54 DEGRASS RD	
Tom Dubie	20 Drew Ln.	

To: Mashpee Planning Board

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Name(print)	Address	Signature
Timothy West	4 Ships rudder drive mashpee	
Shendon Jones	1 Wampanoag APT 53	Shendon Jones
Laurie StPierre	1 Wampanoag Drive Apt - G-8	
Michelle Fay	8 Swain Cir	Michelle Fay
Rose Ryzin	33 Barnack Lane	Rose Ryzin
GARY RAZZINO	33 BARNACK LANE	
Brian Hyde	7 Bras Mt	
Debra Nelson	113 De Grasse	DNelson
Petition		pg 17 of 20

change.org

Recipient: Town of Mashpee Planning Board

Letter: Greetings,

We the undersigned Mashpee Residents are opposed to the proposal by Blue Sky Towers LLC to build a cell tower on Red Brook Road in this residential zone. We appeal to the Planning Board to deny any permits needed to build this cell tower.

Petition pg 18 of 20

Name	City	State	Postal Code	Country	Signed On
Jane Lebel	Mashpee	MA	02649	US	12-Mar-19
Jean Burtis	Mashpee	MA	02649	US	1-Apr-19
Jennifer McDonald	Mashpee	MA	02649	US	10-Mar-19
John Halpin	Mashpee	MA	02649	US	10-Mar-19
Judy Lubrano	Mashpee	MA	02649	US	9-Mar-19
Julie Lindh	Mashpee	MA	02649	US	11-Mar-19
Kailee Blackwell	Mashpee	MA	02649	US	10-Mar-19
Karen Danforth-Barron	Mashpee	MA	02649	US	10-Mar-19
Kari Brissell	Mashpee	MA	02649	US	15-Mar-19
Kim Schafer	Mashpee	MA	02649	US	11-Mar-19
Kimberly Chretien	Mashpee	MA	02649	US	12-Mar-19
L Johnson	Mashpee	MA	02649	US	10-Mar-19
Laraine Michaelson	Mashpee	MA	02649	US	10-Mar-19
Lauren Robert	Mashpee	MA	02649	US	9-Mar-19
Linda Sullivan	Mashpee	MA	02649	US	14-Mar-19
Lisa Murphy	Mashpee	MA	02649	US	14-Mar-19
Lisa Pasquali	Mashpee	MA	02649	US	9-Mar-19
Lynn Dwane	Mashpee	MA	02649	US	14-Mar-19
Margo Ciutter	Mashpee	MA	02649	US	10-Mar-19
Michael Morgado	Mashpee	MA	02649	US	9-Mar-19
Micheal Mauro	Mashpee	MA	02649	US	11-Mar-19
Mike McGrail	Mashpee	MA	02649	US	12-Mar-19
Morgan James "Mwalim" Peters	Mashpee	MA	02649	US	10-Mar-19
Pat Sheehan Papalia	Mashpee	MA	02649	US	10-Mar-19
patrick MERRICK	Mashpee	MA	02649	US	10-Mar-19
Rachel Thomas	Mashpee	MA	02649	US	10-Mar-19
Robert Brown	Mashpee	MA	02649	US	12-Mar-19
ROBERT NELSON	Mashpee	MA	02649	US	11-Mar-19
Robert Rebello	Mashpee	MA	02649	US	9-Mar-19
Shane Clark	Mashpee	MA	02649	US	10-Mar-19
Shannon Trabucco	Mashpee	MA	02649	US	9-Mar-19

Petition PG 19 of 20

Comments

Name	Location	Date	Comment
Barbara Allen	Mashpee, MA	2019-03-09	I'm signing because a cell tower is not needed in Seabrook Village, where I live. It is needed in New Seabury and beyond. If they need it, it should be placed in that area, so the cost (reduced value)/benefit (increased coverage) is balanced for those that need it. The proposed location on Red Brook is a cost, an eyesore, and a financial detriment to those of us who don't need it. It's ridiculous that the town is entertaining this location so that those in New Seabury can get what they want, but 'not in my backyard'. God forbid. I VOTE FOR NO CELL TOWER AT THE FIREHOUSE.
Alex Nichols	Mashpee, MA	2019-03-11	There are better options available that have not been pursued.
Annmarie Raymond	Mashpee, MA	2019-03-11	The town people have spoken, we don't want this where it's proposed. Place it in New Seabury where it is needed and where it will work better for them!
Donna Gallagher	Mashpee, MA	2019-03-12	The coverage will not be adequate for those who really need it on the proposed site. The people have already spoken yet this issue continues. Why put it in an area where it won't help those in parts of NS and South Cape Beach? Follow the \$\$
Sharon DeFrancesco	Mashpee, MA	2019-03-15	Many of my town officials seem to have their heads in the sand. Their ignorance is our demise, and it must stop.

Proposed Coverage

There are three packets of coverage charts as follows

#1 T-mobile using 2100 MHZ

#2 T-mobile using 700 MHZ

#3 Verizon using 700 HHZ

- A) As David Maxon notes in his report and as you can see from my notes the proposed tower will not completely solve the coverage problem leaving some of the most densely populated areas with unchanged coverage
- B) You can see that there is a large discrepancy between T-mobile and Verizon as far as coverage at the same 700 MHZ. If Verizon cannot cover Popponesset at the higher position on the tower how is T-mobile claiming to cover it at a lower position on the tower?
- C) It is not clear if T-mobile will be using 2100 MHZ, 700MHZ or both

Proposed coverage 1 of 14

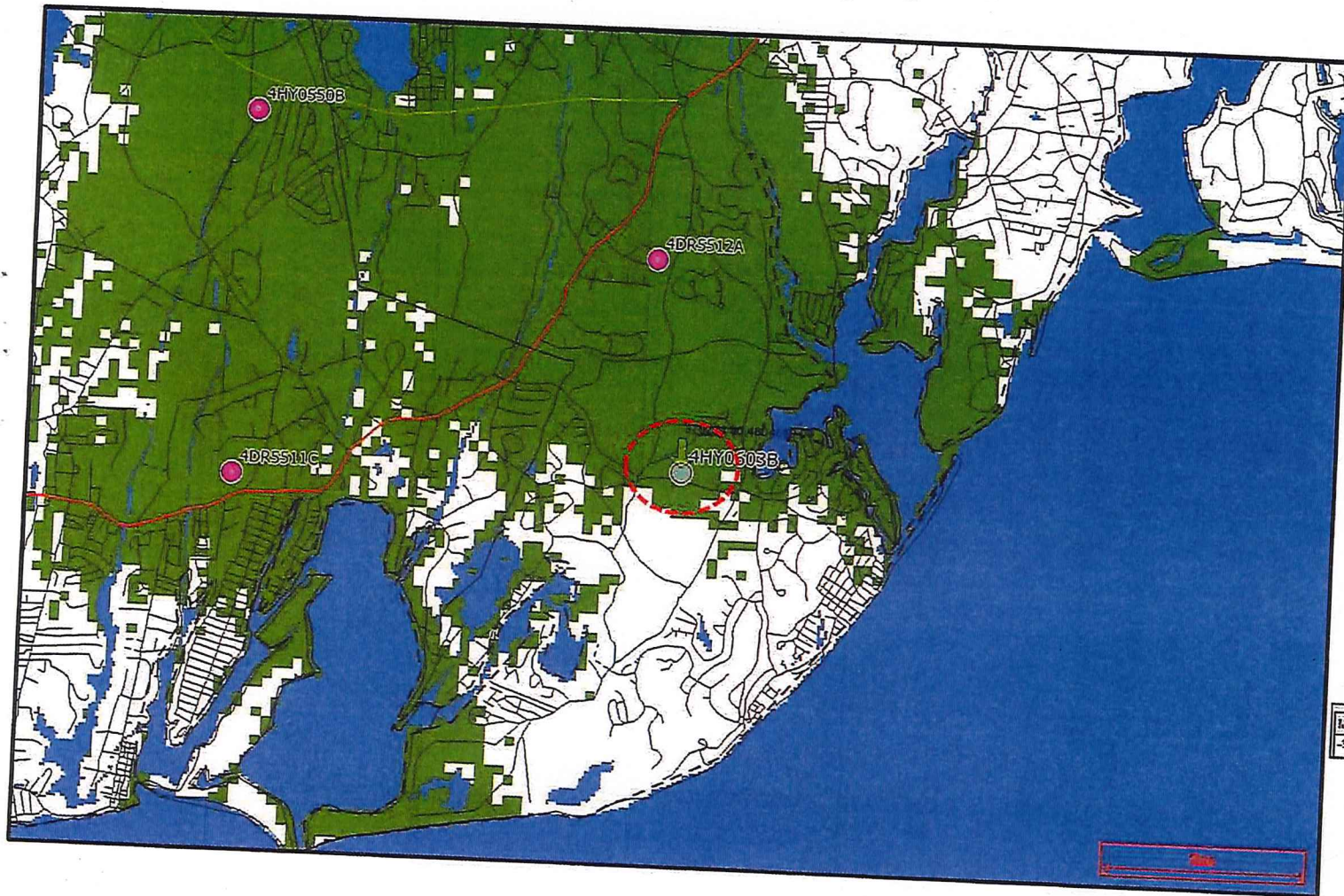
PG-1

T-Mobile 700 MHz

Note: Proposed Tower is the extreme North of the target area (Red circle)

9/5/18

Existing LTE L700 MHz Coverage in Mashpee, MA



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

- Other_Road Line — Line 1
- Primary_Road Line — Line 1
- Secondary_Road Line — Line 1
- Neighborhood_Road Line — Line 1

Minimum	Maximum	Label	Colour
-37	0	In-Building	

Proposed coverage 2 of 14

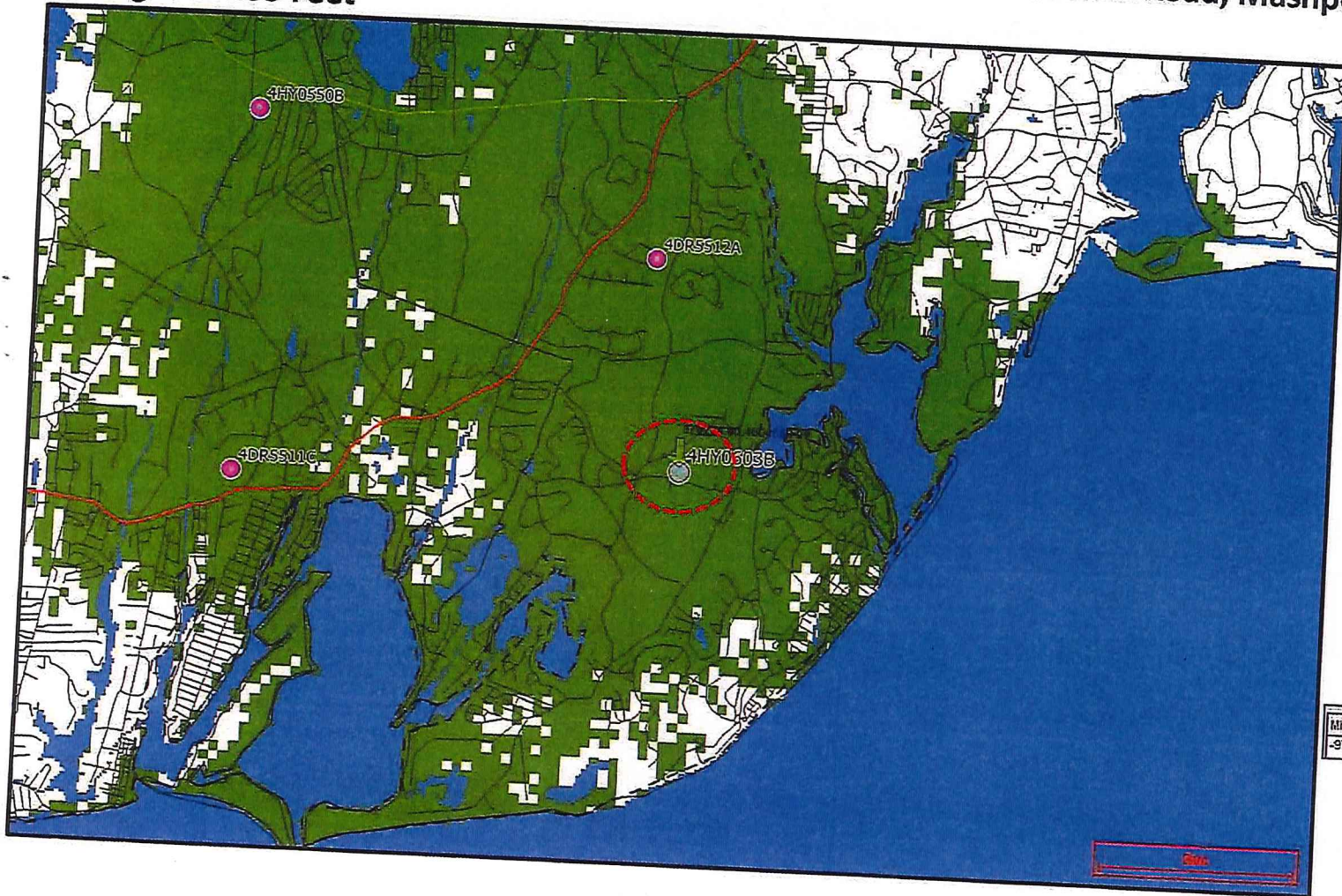
PG-2

t-mobile 700 MHz

Note: still large white spots on the chart (no coverage improvement)
Demonstrates the need for more sites to properly cover. this proposed location will not completely solve the problem

9/5/18

Propose LTE 700 MHz Coverage with Primary Candidate at 101 Red Brook Road, Mashpee, MA
at Height of 135 Feet



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

- Other_Road Line — Line 1
- Primary_Road Line — Line 1
- Secondary_Road Line — Line 1
- Neighborhood_Road Line — Line 1

Minimum	Maximum	Label	Colour
-97	0	In-Building	

Proposed coverage 3 of 14

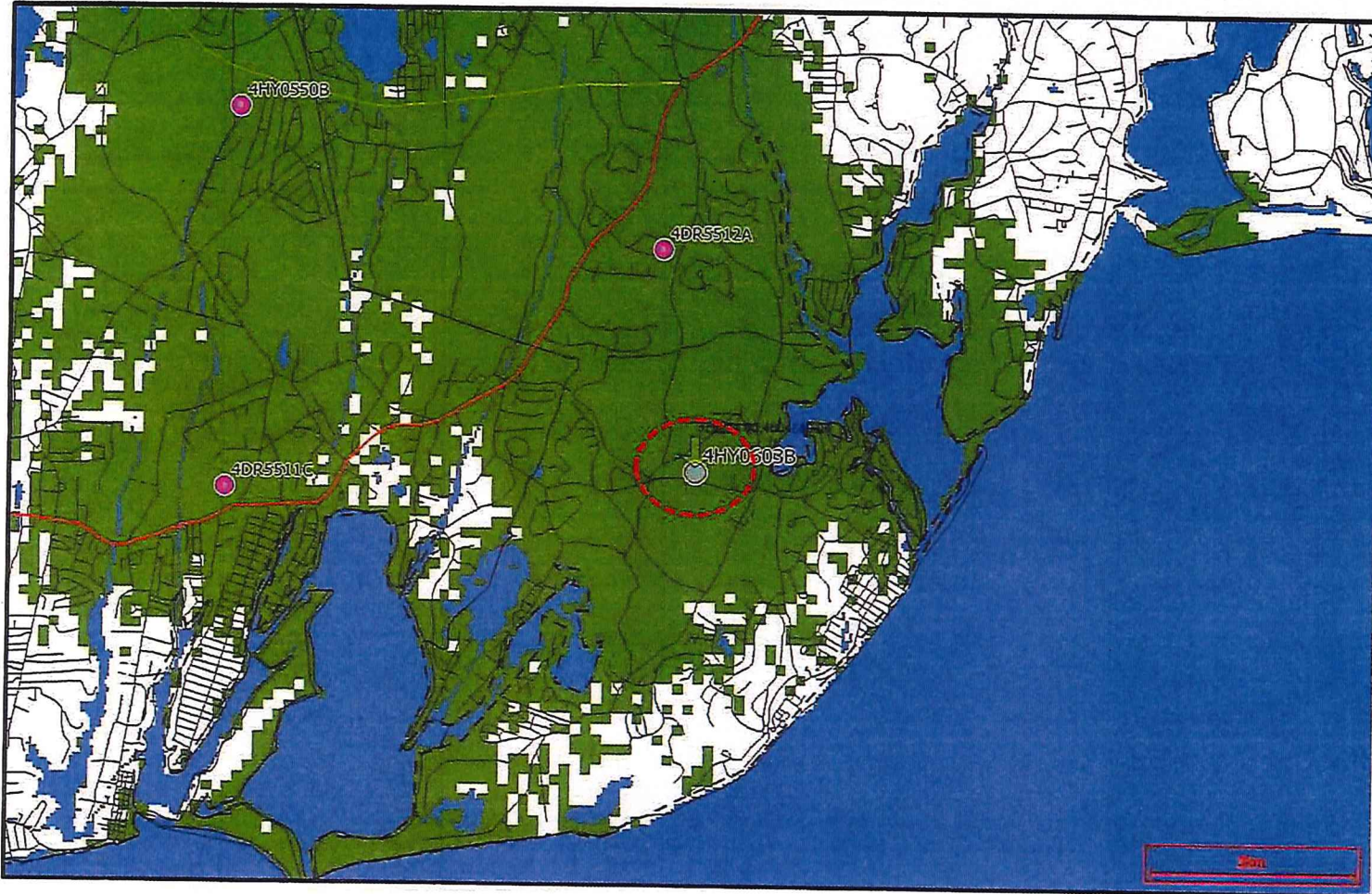
PG-3

t-mobile 700 MHz

See note on PG-2

9/5/18

Propose LTE 700 MHz Coverage with Primary Candidate at 101 Red Brook Road, Mashpee, MA at Height of 110 Feet



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

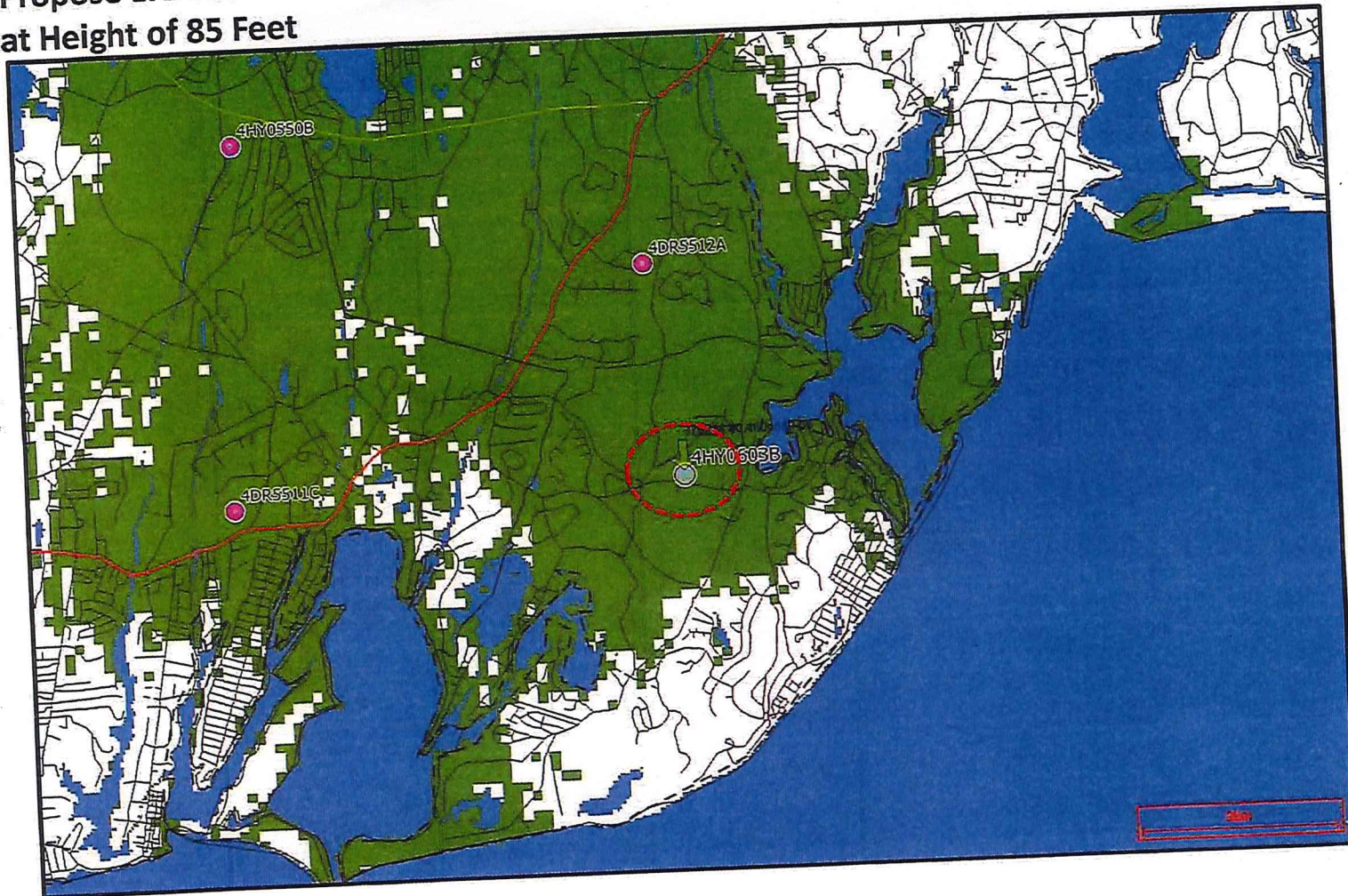
- Other_Road Line ——— Line 1
- Primary_Road Line ——— Line 1
- Secondary_Road Line ——— Line 1
- Neighborhood_Road Line ——— Line 1

Minimum	Maximum	Label	Colour
-97	0	In-Building	

Proposed coverage 4 of 14

SEE NOTE ON PG-2

Propose LTE 700 MHz Coverage with Primary Candidate at 101 Red Brook Road, Mashpee, MA at Height of 85 Feet



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

- Other_Road Line ——— Line 1
- Primary_Road Line ——— Line 1
- Secondary_Road Line ——— Line 1
- Neighborhood_Road Line ——— Line 1

Minimum	Maximum	Label	Colour
-97	0	In-Building	

Proposed coverage 5 of 14

Proposed Coverage

There are three packets of coverage charts as follows

#1 T-mobile using 2100 MHZ

#2 T-mobile using 700 MHZ

#3 Verizon using 700 HHZ

- A) As David Maxon notes in his report and as you can see from my notes the proposed tower will not completely solve the coverage problem leaving some of the most densely populated areas with unchanged coverage
- B) You can see that there is a large discrepancy between T-mobile and Verizon as far as coverage at the same 700 MHZ. If Verizon cannot cover Popponeset at the higher position on the tower how is T-mobile claiming to cover it at a lower position on the tower?
- C) It is not clear if T-mobile will be using 2100 MHZ, 700MHZ or both

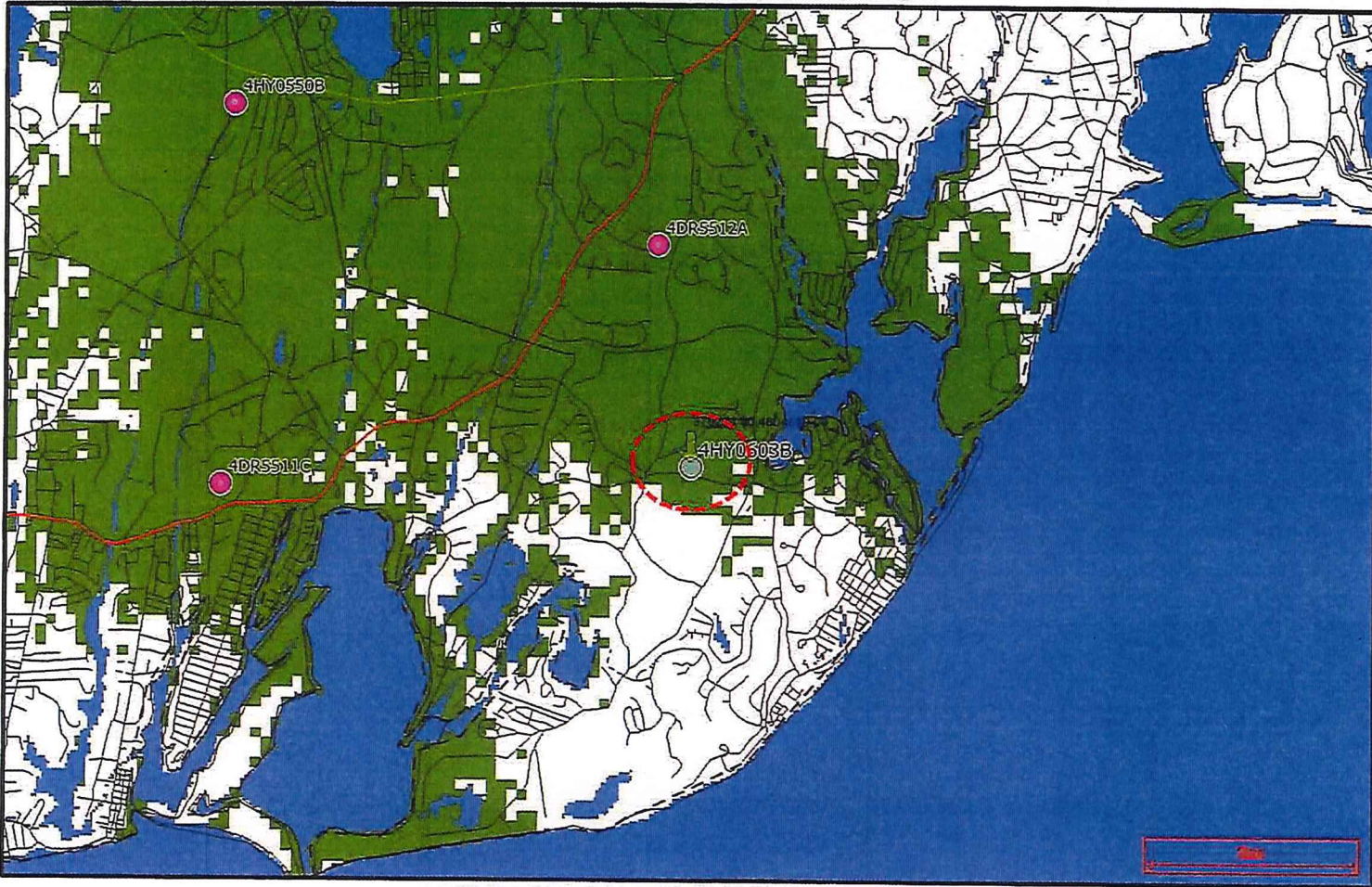
Proposed coverage 1 of 14

Note: Proposed Tower is the extreme North of the target area (Red circle)

9/5/18

Existing LTE L700 MHz Coverage in Mashpee, MA

Proposed coverage 2 of 14



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

- Other_Road Line — Line 1
- Primary_Road Line — Line 1
- Secondary_Road Line — Line 1
- Neighborhood_Road Line — Line 1

Minimum	Maximum	Label	Colour
-97	0	In-Building	

2mi

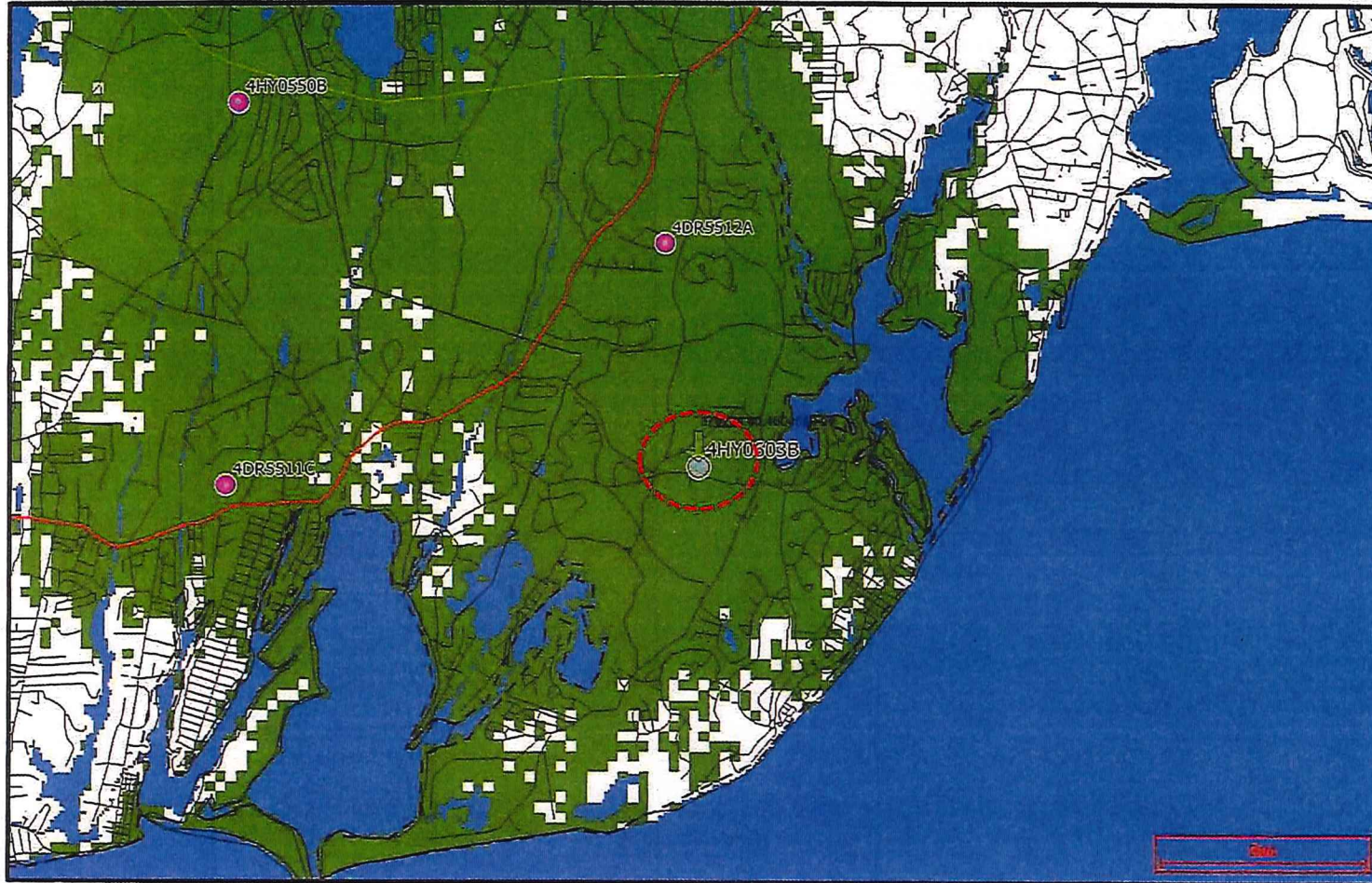
PG-2

+ - mobile 700 MHz

Note: Still large white spots on the chart (No coverage improvement)
Demonstrates the need for more sites to properly cover. This proposed location will not completely solve the problem

9/5/18

Propose LTE 700 MHz Coverage with Primary Candidate at 101 Red Brook Road, Mashpee, MA
at Height of 135 Feet



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

- Other_Road Line ——— Line 1
- Primary_Road Line ——— Line 1
- Secondary_Road Line ——— Line 1
- Neighborhood_Road Line ——— Line 1

Minimum	Maximum	Label	Colour
-97	0	In-Building	

Proposed coverage 3 of 11

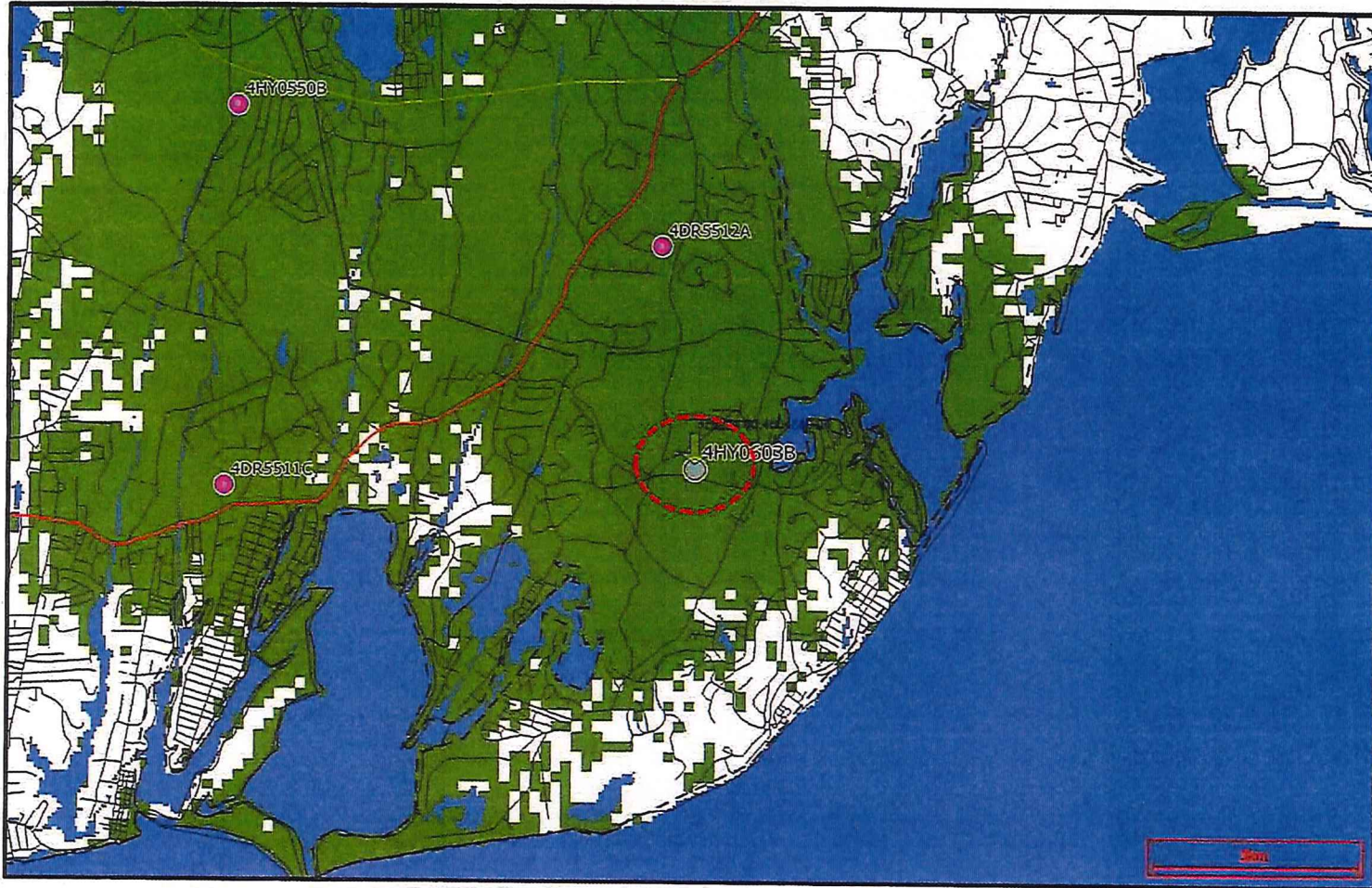
PG-3

t-mobile 700 MHz

See note on PG-2

9/5/18

Propose LTE 700 MHz Coverage with Primary Candidate at 101 Red Brook Road, Mashpee, MA at Height of 110 Feet



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

- Other_Road Line — Line 1
- Primary_Road Line — Line 1
- Secondary_Road Line — Line 1
- Neighborhood_Road Line — Line 1

Minimum	Maximum	Label	Colour
-97	0	In-Building	

Proposed coverage 4 of 14

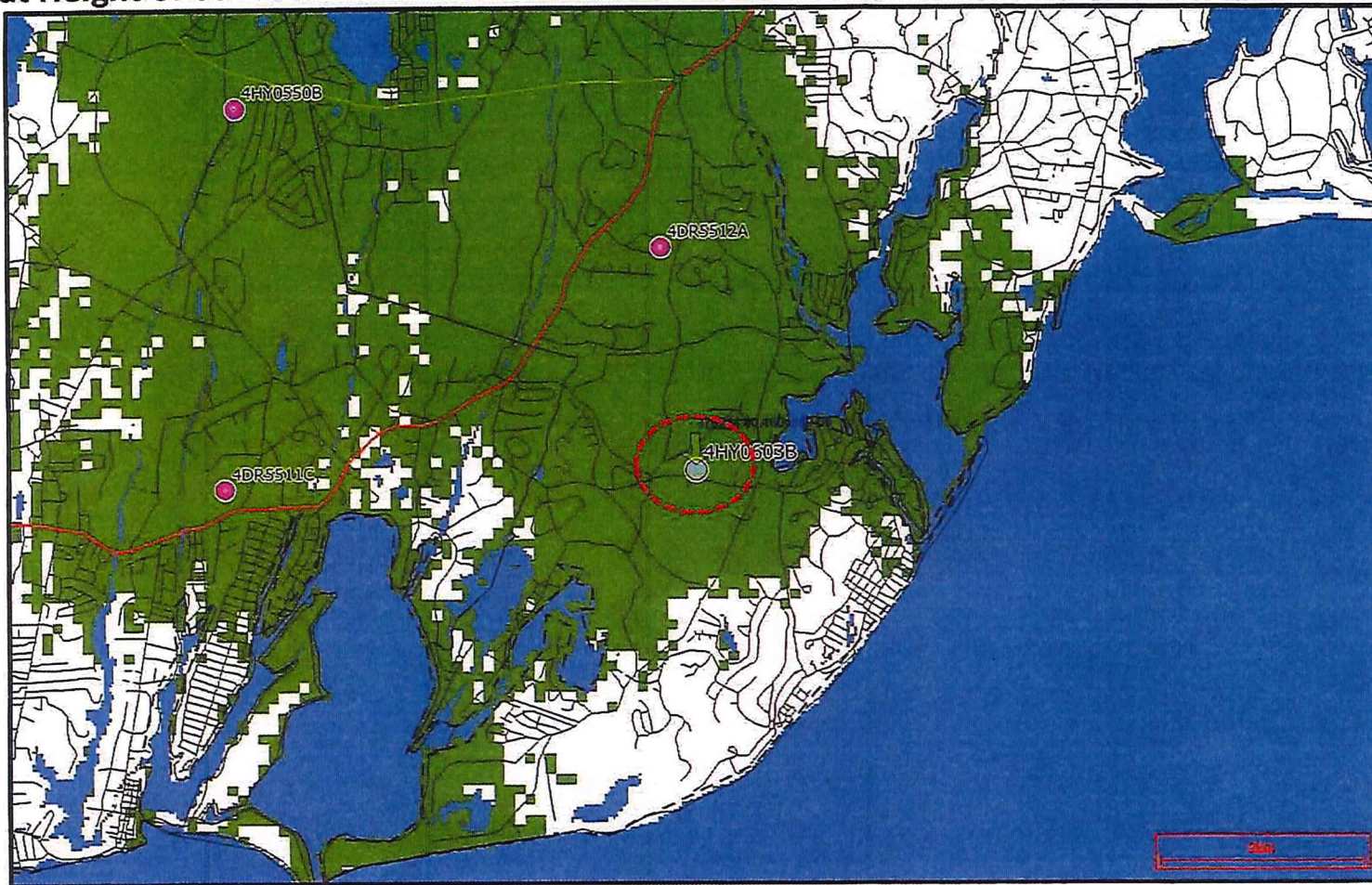
PG-4

T-Mobile 200 MHz

SEE NOTE ON PG-2

9/5/18

Propose LTE 700 MHz Coverage with Primary Candidate at 101 Red Brook Road, Mashpee, MA at Height of 85 Feet



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

- Other_Road Line ——— Line 1
- Primary_Road Line ——— Line 1
- Secondary_Road Line ——— Line 1
- Neighborhood_Road Line ——— Line 1

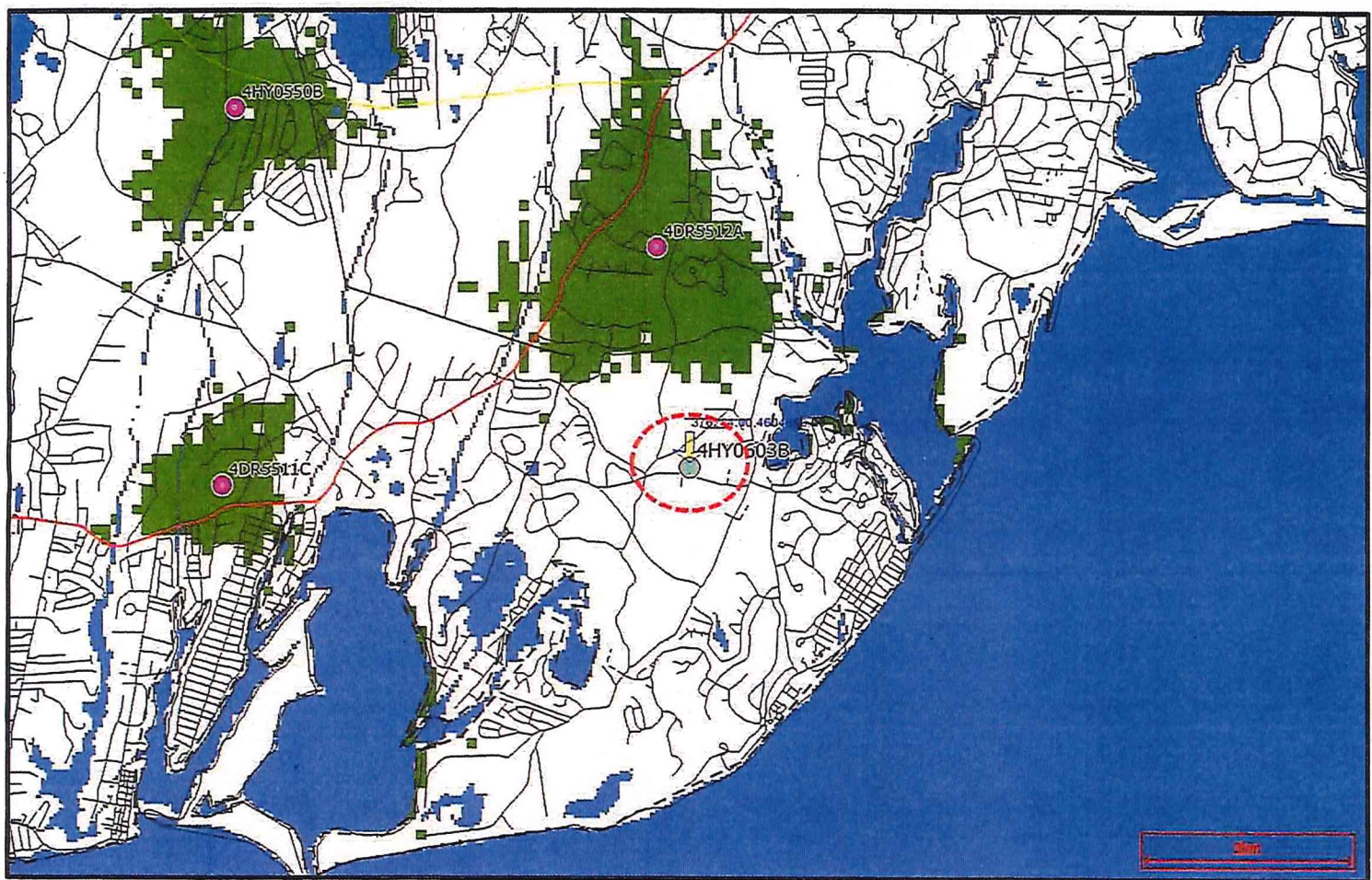
Minimum	Maximum	Label	Colour
-97	0	In-Building	

Proposed coverage S of 1/4

9/5/18

Proposed coverage 6 of 14

Existing LTE L2100 MHz Coverage in Mashpee, MA



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

- Other_Road Line — Line 1
- Primary_Road Line — Line 1
- Secondary_Road Line — Line 1
- Neighborhood_Road Line — Line 1

Minimum	Maximum	Label	Colour
-97	0	In-Building	

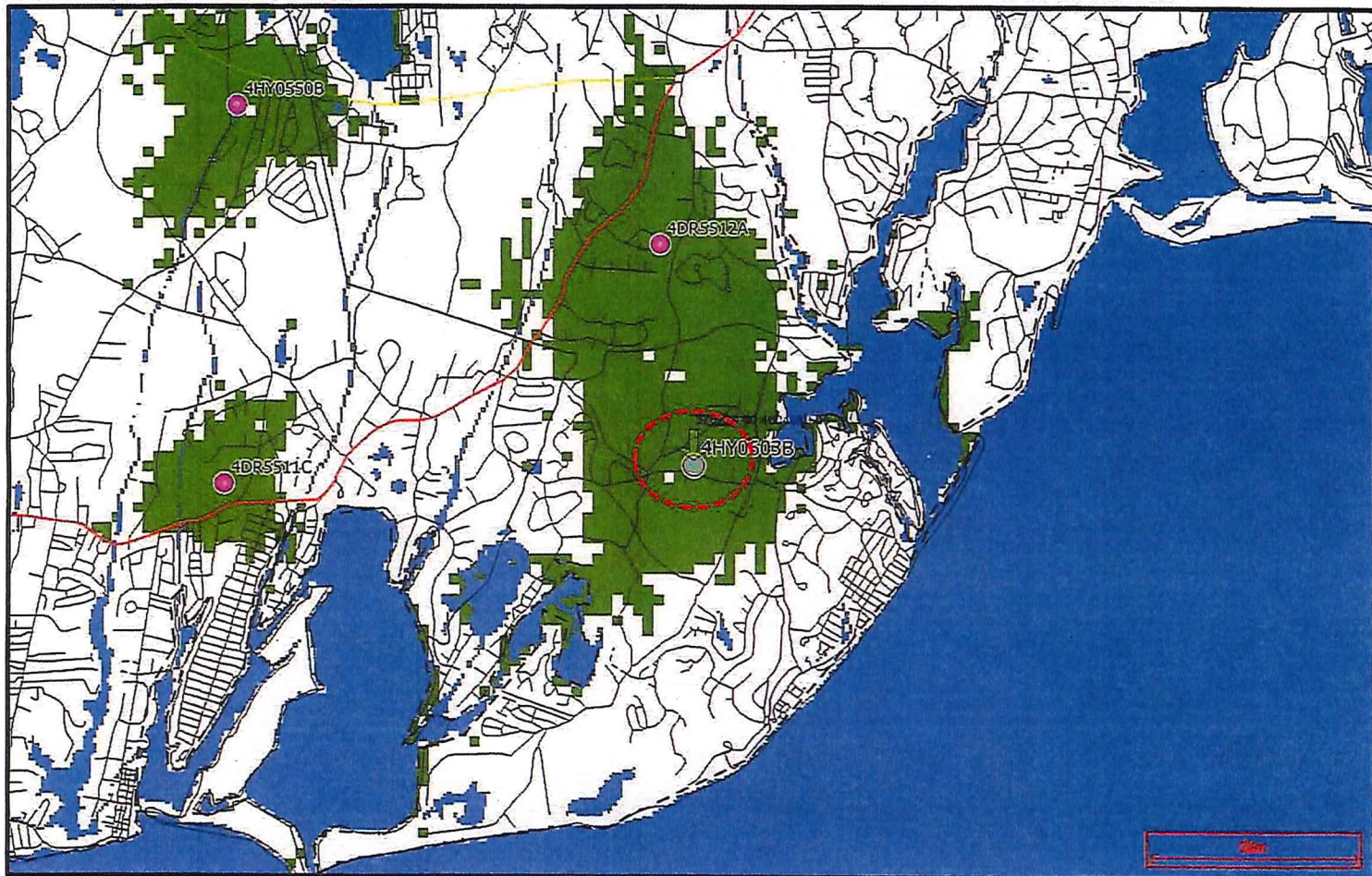
200m

PG 2 7 - mobile 2100 MHz

Note: The improvement in coverage (Green area) is mostly concentrated in the uninhabited Mashpee Wildlife Refuge and very little to no improvement in the targeted New Seabury and Popponesset area

Propose LTE L2100 MHz Coverage with Primary Candidate at 101 Red Brook Road, Mashpee, MA at Height of 135 Feet

Proposed coverage 7 of 14



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

- Other_Road Line 1
- Primary_Road Line 1
- Secondary_Road Line 1
- Neighborhood_Road Line 1

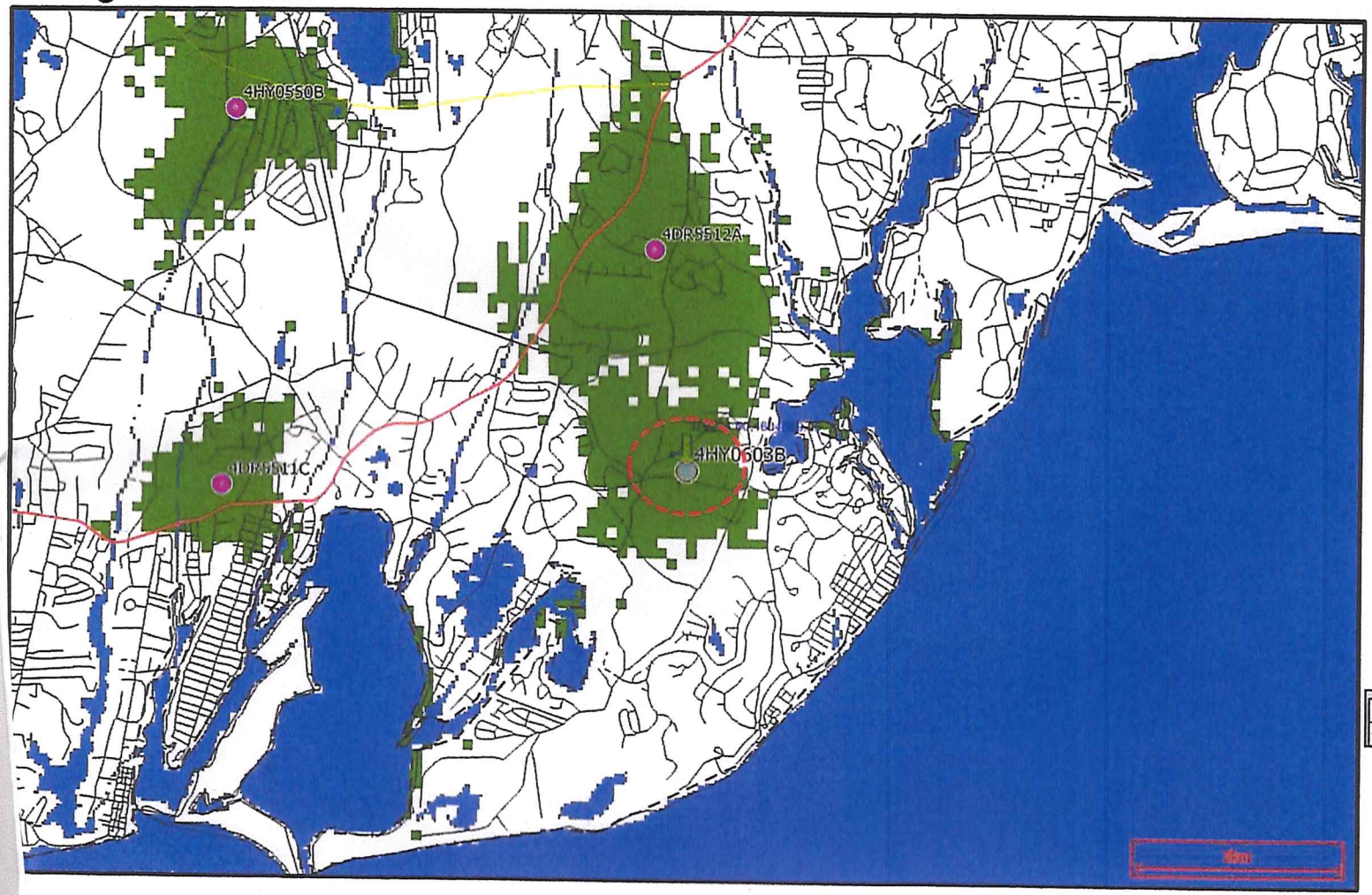
Minimum	Maximum	Label	Colour
-97	0	In-Building	Green

PG 3
See + - mobile 2100 MHz

Note: PG 2

9/5/18

Propose LTE L2100 MHz Coverage with Primary Candidate at 101 Red Brook Road, Mashpee, MA at Height of 85 Feet



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

- Other_Road Line --- Line 1
- Primary_Road Line --- Line 1
- Secondary_Road Line --- Line 1
- Neighborhood_Road Line --- Line 1

Minimum	Maximum	Label	Colour
-97	0	In-Building	

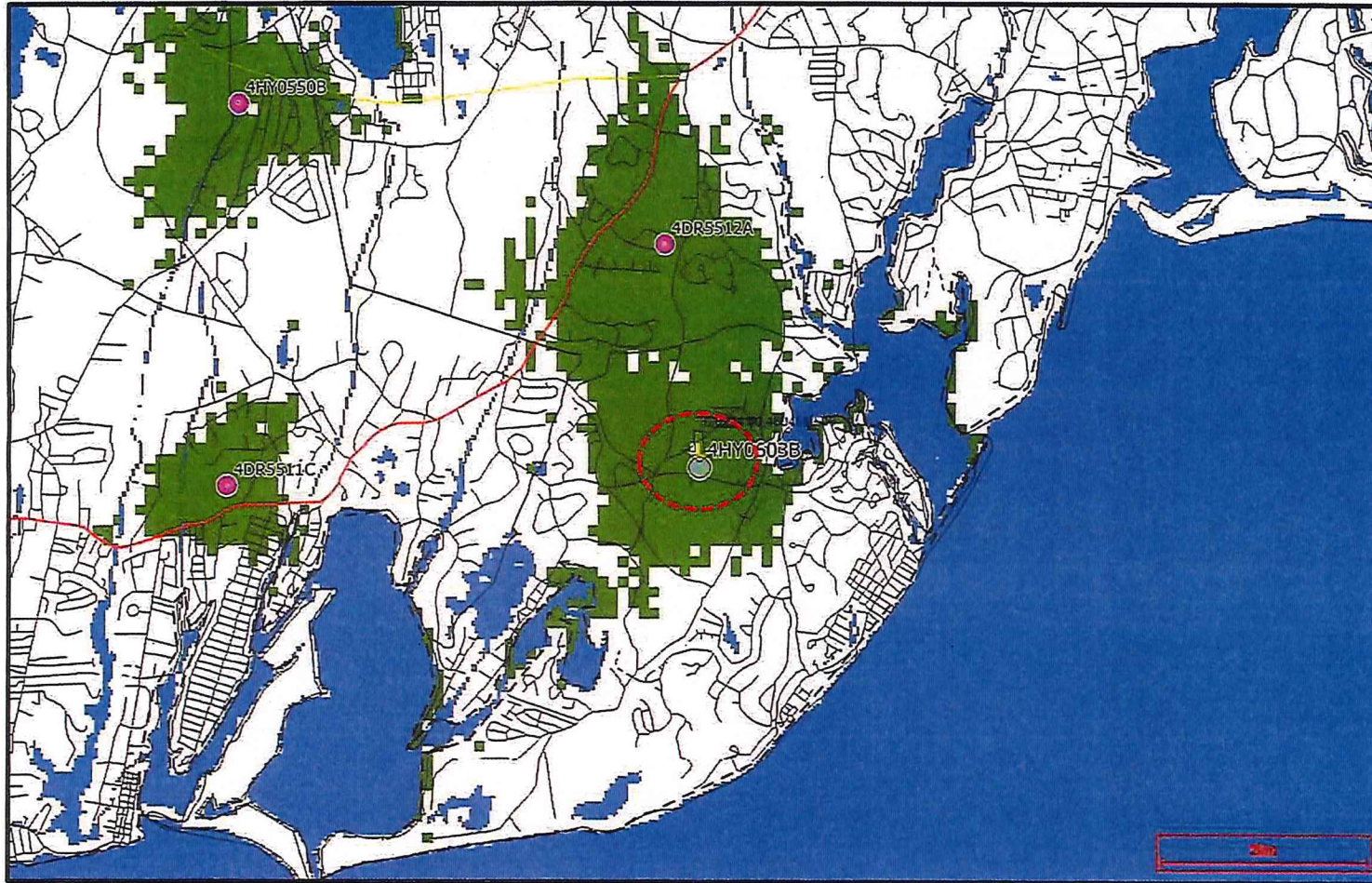
Proposed coverage B of 19

PG-4 7 - mobile 2100 MHz

see
note PG-2

9/5/18

Propose LTE L2100 MHz Coverage with Primary Candidate at 101 Red Brook Road, Mashpee, MA
at Height of 110 Feet



- Existing T-Mobile On-Air Site
- Propose T-Mobile Site

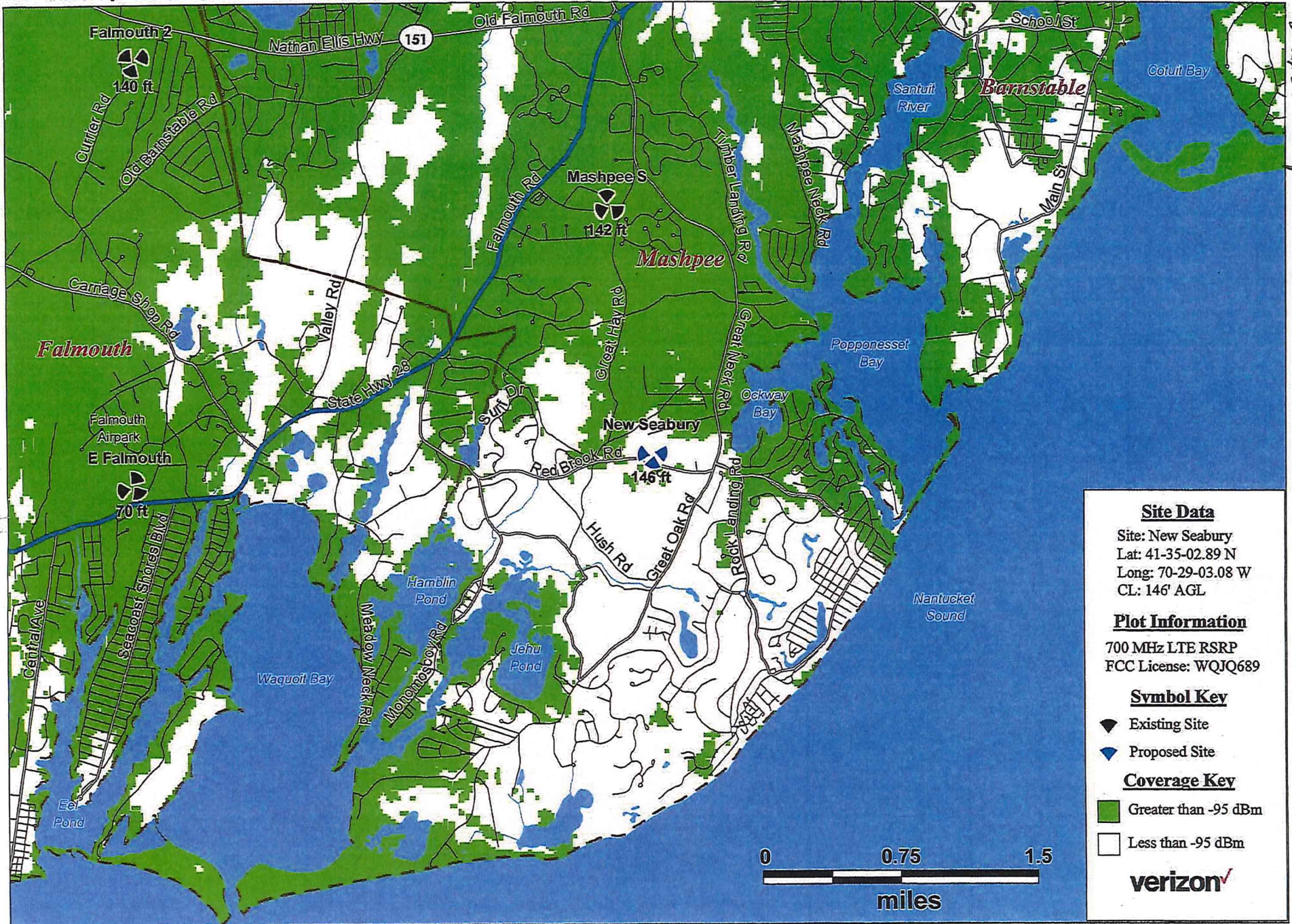
- Other_Road
 - Primary_Road
 - Secondary_Road
 - Neighborhood_Road
- Line 1
- Line 1
- Line 1
- Line 1

Minimum	Maximum	Label	Colour
-97	0	In-Building	Green

Proposed coverage of 9 of 14

Attachment A:
New Seabury - Existing 700 MHz LTE Coverage

Map Prepared 4/3/2018

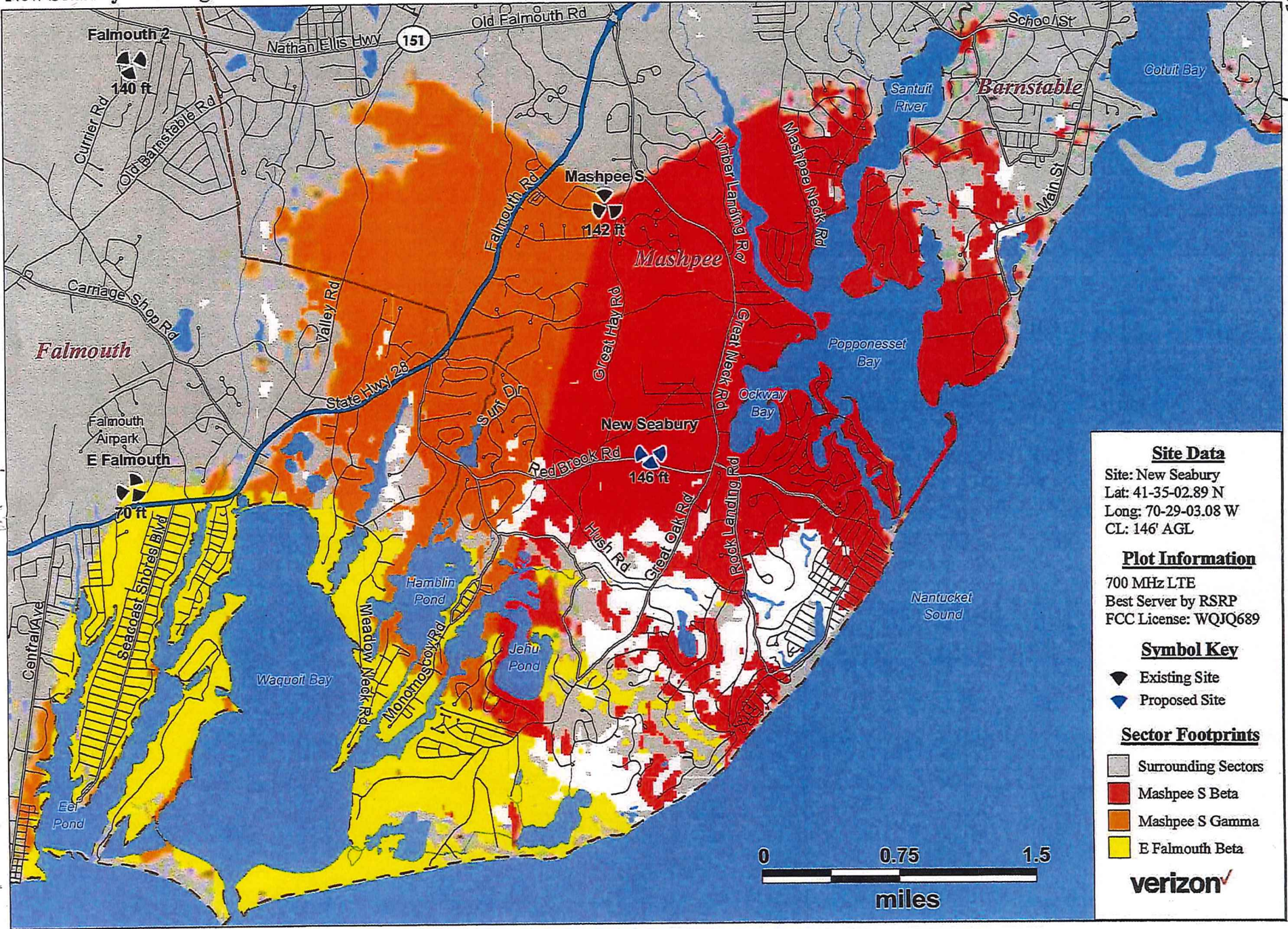


Proposed coverage 10 of 14

Attachment C:
New Seabury - Existing 700 MHz LTE Sector Footprints

Map Prepared 4/3/2018

File No. 11
proposed coverage



Site Data
 Site: New Seabury
 Lat: 41-35-02.89 N
 Long: 70-29-03.08 W
 CL: 146' AGL

Plot Information
 700 MHz LTE
 Best Server by RSRP
 FCC License: WQJQ689

Symbol Key
 ◆ Existing Site
 ◆ Proposed Site

Sector Footprints
 ■ Surrounding Sectors
 ■ Mashpee S Beta
 ■ Mashpee S Gamma
 ■ E Falmouth Beta

verizon



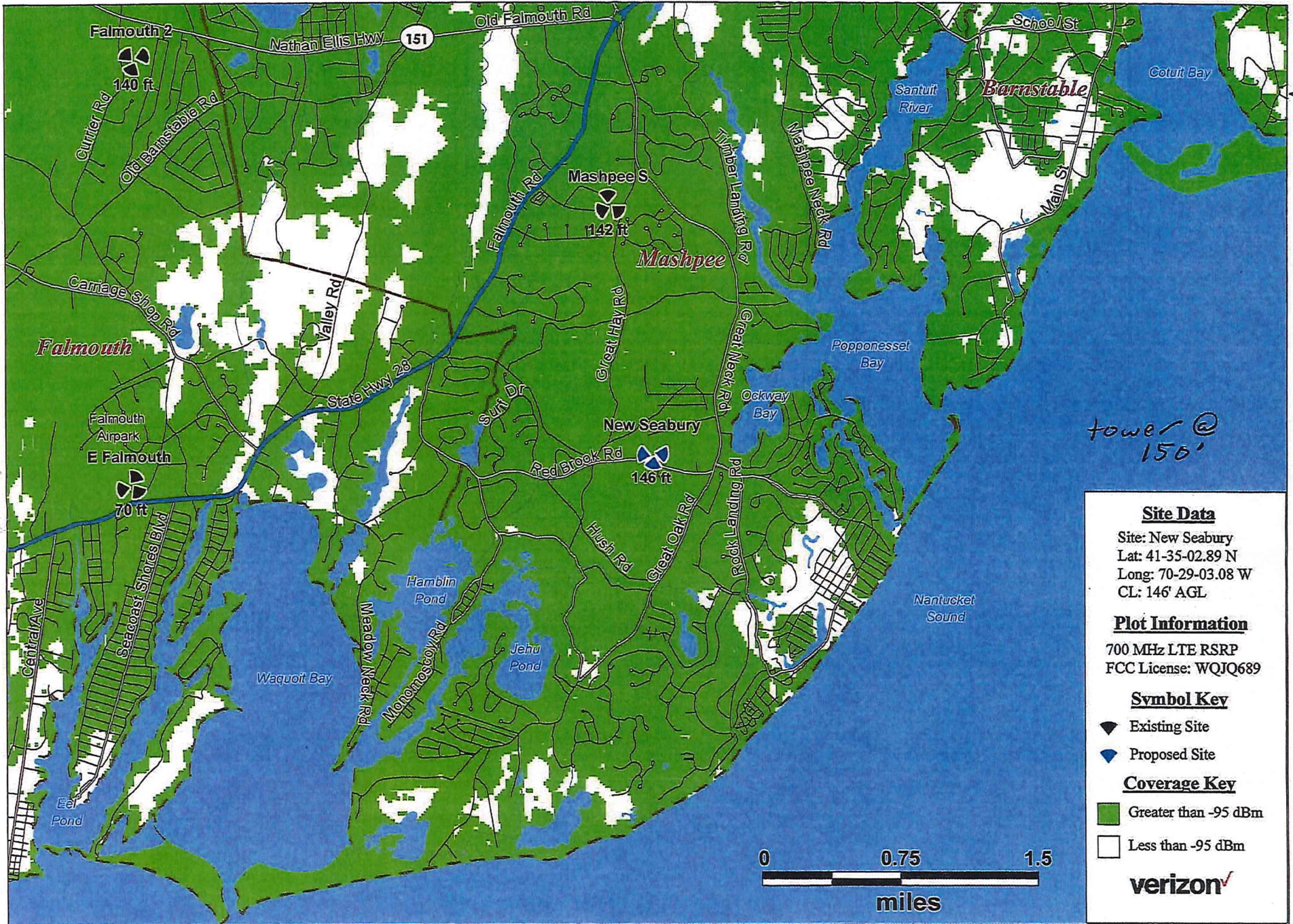
VERIZON Note: large white area mostly popponesset will

Attachment B: see No improvement more sites will be needed

New Seabury - 700 MHz LTE Coverage with Proposed Site

Map Prepared 4/3/2018

proposed coverage 12 of 14



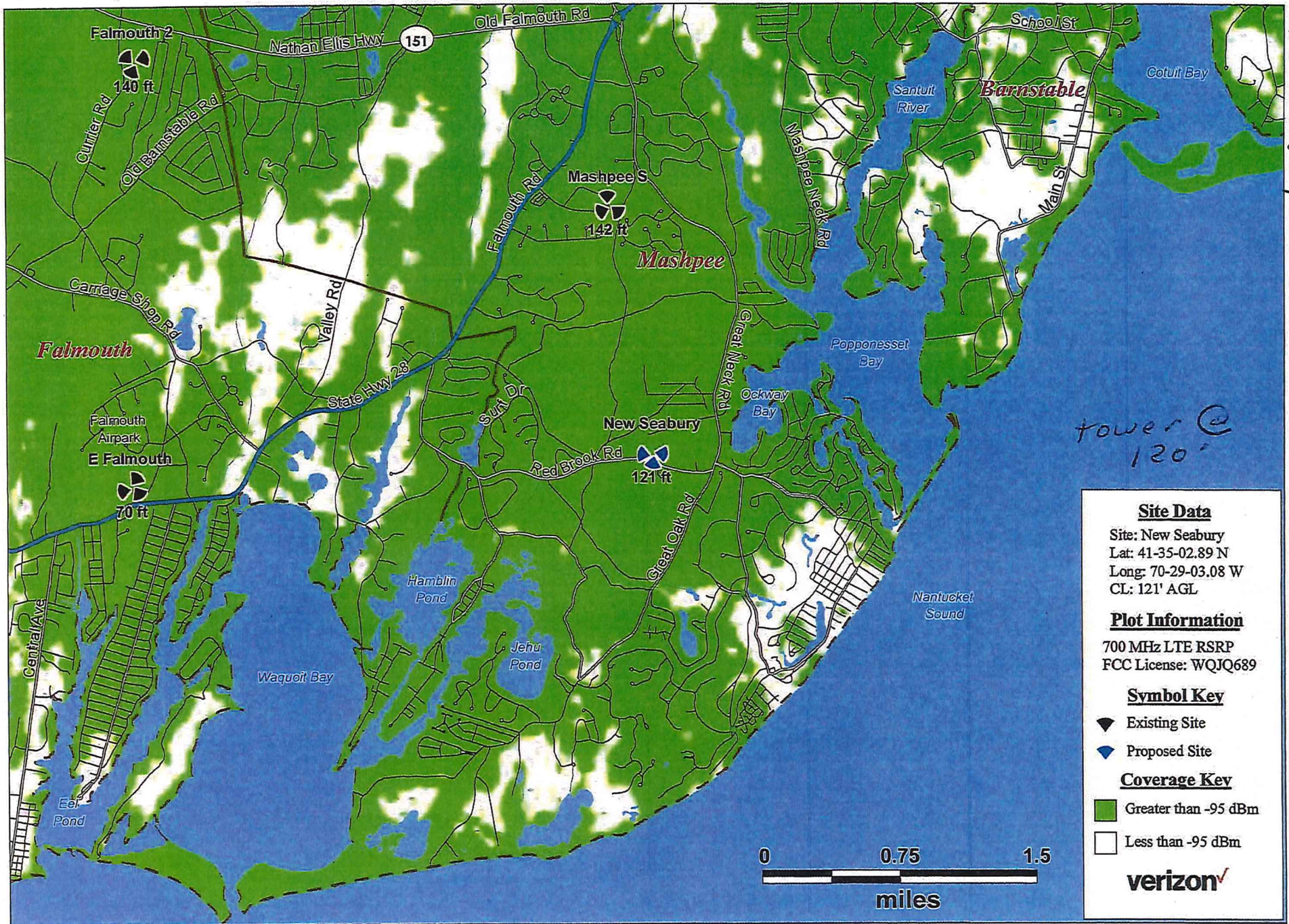
PG-4

See note PG-3

New Seabury - 700 MHz LTE Coverage with Proposed Site at 121 ft

Map Prepared 8/15/2018

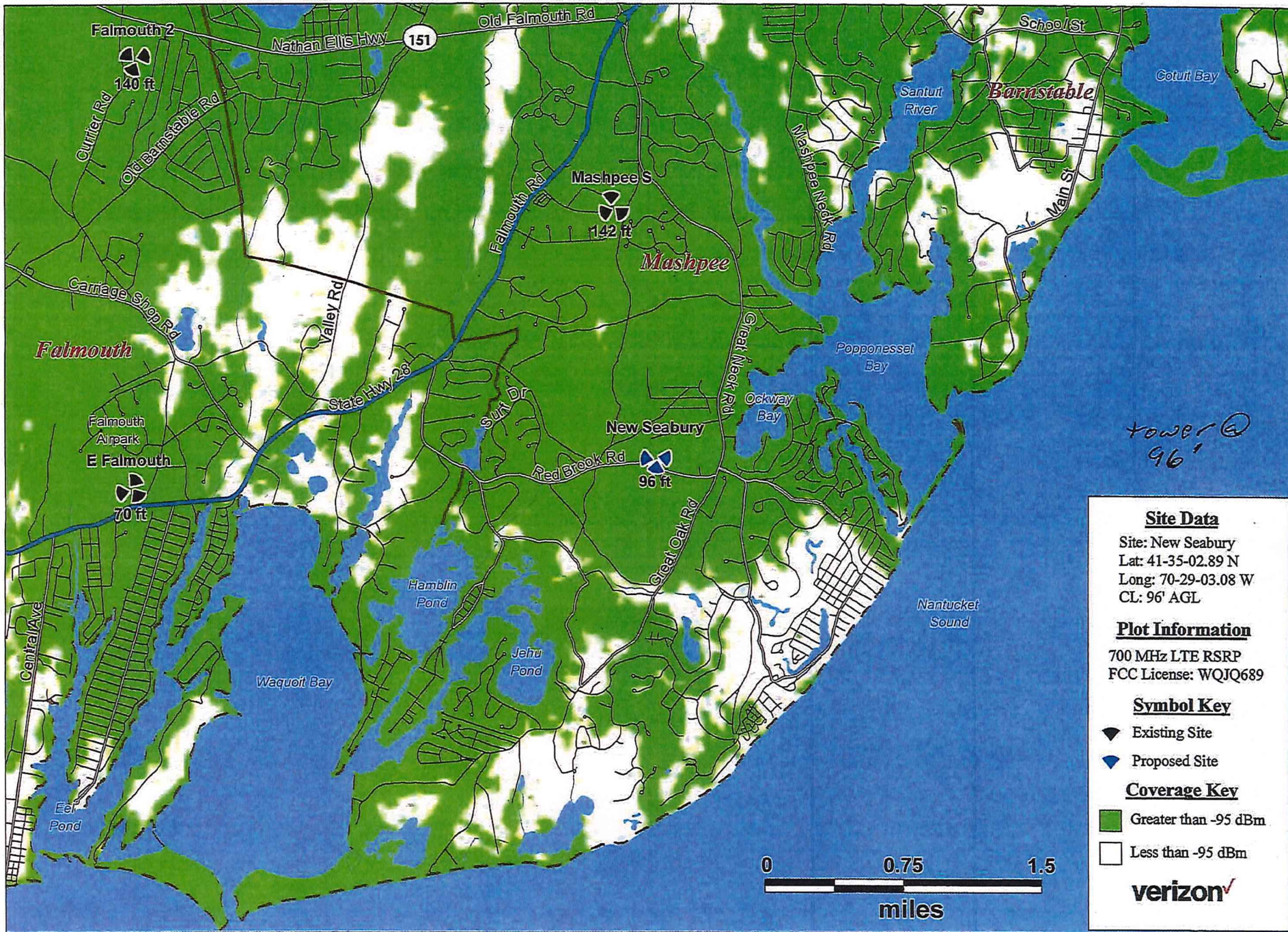
Proposed coverage 134/14



New Seabury - 700 MHz LTE Coverage with Proposed Site at 96 ft

Map Prepared 8/15/2018

Proposed coverage 4 of 17



tower @ 96'

Site Data

Site: New Seabury
Lat: 41-35-02.89 N
Long: 70-29-03.08 W
CL: 96' AGL

Plot Information

700 MHz LTE RSRP
FCC License: WQJQ689

Symbol Key

- ▲ Existing Site
- ▲ Proposed Site

Coverage Key

- Greater than -95 dBm
- Less than -95 dBm



Finance

- Impact study showing a net loss yearly to the Town of Mashpee
- Town income based on possible target income by Blue Sky Towers no actual sublease contract with income data have been provided by Blue Sky Towers, Verizon or T-Mobile to the Town of Mashpee
- Loss of property value to Mashpee Homeowners
- Potential legal liability for the Town of Mashpee in property impact damage
- No data for Town of Mashpee potential legal liability if health issues arise with Town employees or neighboring property owners
- Town of Mashpee receives NO percentage of rent from the top sublease, receives only 35% from the second and lower subleases
- The pending merger of Sprint and T-Mobile would reduce the potential of four national sublease carriers to only three
- The Mashpee Finance Committee was provided a copy of this report for the Article 14 vote at Town Meeting and their vote was not unanimous to recommend.

PG # 3 of the rental agreement between blue sky towers and the town of Mashpee

(d) The Initial Term, the Extension Term and the Holdover Term are collectively referred to as the Term ("Term").

4. RENT.

(a) Rent. Commencing on the first day of the month following the date that Tenant commences construction of the Communications Facility (the "Rent Commencement Date"), Tenant will pay the Landlord a monthly rental payment of Two Thousand and No/100 Dollars (\$2,000.00) ("Rent"), at the address set forth above, on or before the fifth (5th) day of each calendar month in advance. In partial months occurring after the Rent Commencement Date, Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within thirty (30) days after the Rent Commencement Date. Notwithstanding anything to the contrary herein, Tenant shall have no obligation to pay Rent unless and until Tenant has received all Governmental Approvals and documents necessary to install and operate the Communications Facility. Landlord shall have no obligation to allow Tenant to use the property until Tenant has obtained all Government Approvals and documents necessary to install and operate the Communications Facility.

(b) Increases. Upon each anniversary of the Rent Commencement Date, there shall be an escalator applied to the previous year's Rent payment, equal to Two Percent (2%) of the Rent for the previous year. The increase in Rent under this Section 4(b) shall not apply to revenue due or paid under Section 4(c).

(c) Collocation Fees. Beginning with the second subtenant and each subsequent nationwide broadband subtenant, Tenant shall pay to Landlord an amount equal to Thirty-Five Percent (35%) of rent or license fees actually received by Tenant ("Collocation Fees"). Collocation Fees shall be payable to Landlord within thirty (30) days of Tenant's receipt of rent or license fees from each such nationwide broadband subtenant. Calculation of Collocation Fees shall not include any payments made by subtenants or sublicensees to Tenant which are not rent or license fees, or are reimbursements including but not limited to capital contributions, Collocation Fee reimbursements, pass-through costs, upgrade, repair or replacement costs, testing or evaluation costs. Collocation Fee payments shall cease in the event that subtenant leases expire, terminate or payments are otherwise suspended for any reason. Collocation Fee payments shall not be due to Landlord for the first nationwide broadband subtenant, or for any government, non-profit, or other tenants not delivering broadband services including Landlord. If at any time during the Term, the first tenant terminates or vacates the Premises, Tenant shall have the right to designate a new first tenant for which no Collocation Fees shall be due.

(d) Capital Contribution. Tenant shall pay to Landlord a one-time payment of One Hundred Thousand and no/Dollars (\$100,000.00) as a capital contribution [for Landlord's development, equipment and construction costs associated with installation of Landlord's communications equipment upon Tenant's Communications Facility]. The capital contribution shall be due and payable following Tenant's receipt of all Governmental Approvals (defined below), including Cape Cod Commission, completion of construction of the Communications Facility, issuance of the Certificate of Occupancy, and within thirty (30) days of the Tenant's first subtenant installation going "on-air."

(e) All charges payable under this Agreement such as utilities and taxes shall be billed by Landlord within one (1) year from the end of the calendar year in which the charges were incurred; any charges beyond such period shall not be billed by Landlord, and shall not be payable by Tenant. The foregoing shall not apply to monthly rent which is due and payable without a requirement that it be billed by Landlord. The provisions of the foregoing sentence shall survive the termination or expiration of this Agreement.



market based estimate and can fluctuate depending on the carrier and the size of their installation.

BST includes in its proposal a \$100,000.00 capital contribution to the Town of Mashpee, paid upon receipt of full zoning, permitting and close-out/certificate of occupancy documents from the Town of Mashpee and the Cape Cod Commission.

* NOTES

Revenue:			
No. of Carriers	Target Carrier Rent/Year	Rent to Town	Rent to Blue Sky
Carrier 1:	N/A	\$24,000.00	TBD
Carrier 2:	\$36,000.00	\$12,600.00	\$23,400.00
Carrier 3:	\$36,000.00	\$12,600.00	\$23,400.00
Carrier 4:	\$36,000.00	\$12,600.00	\$23,400.00
Total:	\$144,000.00	\$61,800.00	\$82,200.00

← ground lease
 ← top sublease
 0% to town
 possible sublease income @ 35%
 if a ~~third~~ carrier for the third spot can be signed.

Capital Contribution:	
\$100,000.00	By BST to Town of Mashpee as capital contribution to Town, paid upon receipt of full zoning, permitting and close-out documents from the Town of Mashpee and the Cape Cod Commission.

Capital Contribution:	
Maintenance Insurance Utilities Taxes	All recurring expenses will be the responsibility of Blue Sky Towers, LLC

11. The proposed term of the lease, with an applicable escalation adjustment.

BST would propose an initial five (5) year term and three (3) successive five (5) year renewal terms. However, BST would like the opportunity to discuss the term of the lease with the Town of Mashpee should BST be winning bidder. Typically, lease terms are longer than what is proposed as part of this request.

Base rent would be subject to an annual escalation adjustment based upon the Consumer Price Index for Barnstable County.

Finance 3/10

* NOTES:

Carrier #1 Property lease @ \$2600- per month
 Carrier #2 Verizon wireless no % paid to the town
 Carrier #3 T-Mobile 35% paid to the town (no info available for contract amount)
 Carrier #4 potential if one can be found

PROPERTY VALUE AND PROPERTY TAX IMPACT
 BLUE SKY TOWERS PROJECT PROPOSAL AT 101 RED BROOK ROAD
 ONLY INCLUDES IMPACTED PROPERTIES WITHIN 400 YARDS

Finance 4 of 10

DISTANCE ¹	PROPERTIES IMPACTED	TOTAL VALUE AT RISK ²	VALUE ADJUSTMENT ³	PROJECTED VALUE IMPACT	TOTAL PROPERTY TAX RATE ⁴	PROJECTED ANNUAL TAX REVENUE IMPACT
Abutting	22	\$9,841,500	-20.0%	(\$1,968,300)	0.929%	(\$18,285.51)
1-100 Yards	16	\$4,504,000	-17.5%	(\$788,200)	0.929%	(\$7,322.38)
101-200 Yards	20	\$9,069,500	-15.0%	(\$1,360,425)	0.929%	(\$12,638.35)
201-300 Yards	43	\$13,212,300	-12.5%	(\$1,651,538)	0.929%	(\$15,342.78)
301-400 Yards	65	\$29,183,500	-10.0%	(\$2,918,350)	0.929%	(\$27,111.47)
Totals/Average	<u>166</u>	<u>\$ 65,810,800.00</u>	<u>-13.2%</u>	<u>(\$8,686,812.50)</u>		<u>(\$80,700.49)</u>

	INCOME	LOSS	NET IMPACT
Proposed Ground Lease Revenue Share ⁵	\$ 61,800.00	(\$80,700.49)	<u>(\$18,900.49)</u>
Most Likely Ground Lease Revenue Share ⁶	\$ 37,800.00	(\$80,700.49)	<u>(\$42,900.49)</u>
Potential Liability For Town of Mashpee ⁷	\$ 100,000.00	(\$8,686,812.50)	<u>(\$8,586,812.50)</u>

1. <http://massgis.maps.arcgis.com/apps/OnePane/basicviewer/index.html?appid=47689963e7bb4007961676ad9fc56ae9#>
2. Town of Mashpee assessment data from FY 2017
3. Dr. Sandy Bond, The Appraisal Journal, <https://www.emfanalysis.com/property-values-declining-cell-towers/>
4. Town of Mashpee 2018 Tax Rate - <https://www.mashpeema.gov/assessing/pages/3-town-mashpee-2018-tax-rate>
5. Per Blue Sky proposal selected on 07/10/17. No details were provided on calculation, agreement is redacted.
6. Assuming a T-Mobile/Sprint merger only 3 national carriers will remain. This would mean a maximum of \$37,800 revenue in year one.
7. Blue Sky capital contribution to town less damages owed to impacted property owners seeking relief. Legal fees not included.

Distance	Number	Street	Suffix	Owner	Total Value
Abutting	1182	Great Hay	Rd	Ruo	195,900
Abutting	0	Degrass	Rd	Michaelson	9,000
Abutting	104	Degrass	Rd	Sturtevant & Hook Inc	175,200
Abutting	102	Blue Castle	Dr	Collier	191,300
Abutting	92	Blue Castle	Dr	Reed	304,400
Abutting	86	Blue Castle	Dr	Dorsey	369,100
Abutting	56	Blue Castle	Dr	BCDM LLC	152,200
Abutting	48	Blue Castle	Dr	Bynoe	420,700
Abutting	38	Blue Castle	Dr	Harriott	238,500
Abutting	28	Blue Castle	Dr	Duco Associates, Inc	139,700
Abutting	0	Great Neck	Rd	Mashpee Commons LP	452,800
Abutting	693	Great Neck	Rd	Muller	572,300
Abutting	701	Great Neck	Rd	Hyde	466,000
Abutting	7	Brians	Ln	Hyde	626,100
Abutting	5	Brians	Ln	Hyde	135,700
Abutting	4	Brians	Ln	Hyde	134,200
Abutting	83	Red Brook	Rd	Lee	117,400
Abutting	85	Red Brook	Rd	Estrella	187,300
Abutting	86	Red Brook	Rd	Staruch	387,700
Abutting	94	Red Brook	Rd	Sliwa	271,700
Abutting	100	Red Brook	Rd	Phelps	235,300
Abutting	122	Red Brook	Rd	Red Horse LLC	4,059,000
1-100 Yards	1178	Great Hay	Rd	Fronius	298,100
1-100 Yards	128	Degrass	Rd	Greenup	372,700
1-100 Yards	120	Degrass	Rd	Michaelson	354,000
1-100 Yards	110	Degrass	Rd	Michaelson	177,700
1-100 Yards	108	Degrass	Rd	Scannell	466,100
1-100 Yards	97	Blue Castle	Dr	Hubarau	351,500
1-100 Yards	85	Blue Castle	Dr	Lubrano	352,300
1-100 Yards	57	Blue Castle	Dr	BCDM LLC	228,900
1-100 Yards	43	Blue Castle	Dr	Sturtevant & Hook Inc	127,200
1-100 Yards	35	Blue Castle	Dr	Sturtevant & Hook Inc	127,200
1-100 Yards	19	Blue Castle	Dr	Burridge	296,100

Finance 5 of 10

Distance	Number	Street	Suffix	Owner	Total Value
1-100 Yards	20	Blue Castle	Dr	Brady	125,800
1-100 Yards	709	Great Neck	Rd	Blake	410,100
1-100 Yards	79	Red Brook	Rd	Ores	327,200
1-100 Yards	80	Red Brook	Rd	Jeffries	252,100
1-100 Yards	74	Red Brook	Rd	Merchant	237,000
101-200 Yards	121	Degrass	Rd	Cutter	268,400
101-200 Yards	119	Degrass	Rd	Baumgaertel	244,900
101-200 Yards	113	Degrass	Rd	Nelson	236,100
101-200 Yards	107	Degrass	Rd	Egan	248,400
101-200 Yards	103	Degrass	Rd	McDonald	267,100
101-200 Yards	95	Degrass	Rd	Rebello	283,500
101-200 Yards	89	Degrass	Rd	Bilodeau	239,600
101-200 Yards	85	Degrass	Rd	Groehl	203,900
101-200 Yards	86	Degrass	Rd	Slavin	275,400
101-200 Yards	74	Degrass	Rd	Hayward	196,100
101-200 Yards	68	Degrass	Rd	Gleaves	187,800
101-200 Yards	7	Blue Castle	Dr	Virgillo	421,700
101-200 Yards	8	Blue Castle	Dr	Barnes	411,100
101-200 Yards	3	Harbor Ridge	Dr	Kelly	1,700,000
101-200 Yards	654	Great Neck	Rd	Procopio	814,800
101-200 Yards	688	Great Neck	Rd	Westerling Investments LLC	1,656,100
101-200 Yards	5	Wintergreen	Rd	Irarragorri	319,800
101-200 Yards	9	Wintergreen	Rd	Mullen	320,800
101-200 Yards	17	Wintergreen	Rd	Conolly	310,800
101-200 Yards	12	Wintergreen	Rd	Sickler	463,200
201-300 Yards	33	Wintergreen	Rd	Sturtevant	314,400
201-300 Yards	25	Wintergreen	Rd	Ozimek	376,000
201-300 Yards	24	Wintergreen	Rd	Colantuono	292,700
201-300 Yards	20	Wintergreen	Rd	Coffey	635,600
201-300 Yards	243	Red Brook	Rd	Guidi	305,500
201-300 Yards	81	Degrass	Rd	Avant	255,000
201-300 Yards	75	Degrass	Rd	Robert	263,400
201-300 Yards	71	Degrass	Rd	Jones	241,800

Finance 4 of 10

Distance	Number	Street	Suffix	Owner	Total Value
201-300 Yards	67	Degrass	Rd	Manning	228,700
201-300 Yards	63	Degrass	Rd	Tripp	251,200
201-300 Yards	57	Degrass	Rd	Annicelli	234,700
201-300 Yards	48	Degrass	Rd	LeBlanc	239,000
201-300 Yards	39	Degrass	Rd	Nozawa	199,300
201-300 Yards	34	Degrass	Rd	Rondeau	197,400
201-300 Yards	63	Gia	Ln	Lord	210,500
201-300 Yards	64	Gia	Ln	Korzeniecky	197,800
201-300 Yards	52	Gia	Ln	Mooney	209,900
201-300 Yards	46	Gia	Ln	Walden	205,100
201-300 Yards	40	Gia	Ln	Kachanov	199,200
201-300 Yards	36	Gia	Ln	Zamira	203,400
201-300 Yards	32	Gia	Ln	Flood	205,000
201-300 Yards	26	Gia	Ln	Skene	113,500
201-300 Yards	20	Gia	Ln	Skene	113,500
201-300 Yards	16	Gia	Ln	Skene	6,800
201-300 Yards	12	Gia	Ln	Skene	6,800
201-300 Yards	43	Gia	Ln	Odriscoll	201,700
201-300 Yards	37	Gia	Ln	Sexton	205,000
201-300 Yards	33	Gia	Ln	Eldredge	216,100
201-300 Yards	102	Old Great Neck	Rd	Dickson	213,700
201-300 Yards	106	Old Great Neck	Rd	Marchand	185,100
201-300 Yards	110	Old Great Neck	Rd	Arsentyeva	199,200
201-300 Yards	114	Old Great Neck	Rd	Higgins	216,000
201-300 Yards	609	Great Neck	Rd	Broderick	201,300
201-300 Yards	615	Great Neck	Rd	Galligan	216,900
201-300 Yards	617	Great Neck	Rd	LeBlanc	258,600
201-300 Yards	623	Great Neck	Rd	Gray	218,100
201-300 Yards	7	Harbor Ridge	Dr	Neville	1,454,300
201-300 Yards	11	Harbor Ridge	Dr	Noxon	1,134,600
201-300 Yards	6	Harbor Ridge	Dr	Kohler	565,500
201-300 Yards	10	Harbor Ridge	Dr	Brennan	764,200
201-300 Yards	14	Harbor Ridge	Dr	Strick	717,700

Finance 7 of 10

Distance	Number	Street	Suffix	Owner	Total Value
201-300 Yards	17	Great Oak	Rd	Bento	260,000
201-300 Yards	35	Great Oak	Rd	Johnson	278,100
301-400 Yards	45	Wintergreen	Rd	Fragnito	306,100
301-400 Yards	39	Wintergreen	Rd	Leonard	305,500
301-400 Yards	44	Wintergreen	Rd	Lundberg	285,300
301-400 Yards	32	Wintergreen	Rd	Caron	297,700
301-400 Yards	50	Wintergreen	Rd	Lettic	330,200
301-400 Yards	56	Wintergreen	Rd	March	539,600
301-400 Yards	62	Wintergreen	Rd	Falcone	322,400
301-400 Yards	70	Wintergreen	Rd	Atkinson	321,000
301-400 Yards	251	Red Brook	Rd	Marsters	131,400
301-400 Yards	18	Harbor Ridge	Dr	Perkins	725,400
301-400 Yards	22	Harbor Ridge	Dr	Raab	1,169,400
301-400 Yards	21	Harbor Ridge	Dr	Brem	1,167,600
301-400 Yards	19	Harbor Ridge	Dr	Entine	575,900
301-400 Yards	15	Harbor Ridge	Dr	Hunt	1,132,900
301-400 Yards	598	Great Neck	Rd	Donato	977,600
301-400 Yards	577	Great Neck	Rd	Mashpee Commons LP	667,900
301-400 Yards	9	Tracy	Ln	McGee	212,600
301-400 Yards	3	Tracy	Ln	Menounos	227,300
301-400 Yards	10	Tracy	Ln	Hurley	236,300
301-400 Yards	6	Tracy	Ln	Kaplan	213,200
301-400 Yards	66	Tracy	Ln	Evans	200,800
301-400 Yards	62	Tracy	Ln	Cataldo	246,100
301-400 Yards	56	Tracy	Ln	Lubelczyk	242,500
301-400 Yards	24	Degrass	Rd	Burke	218,100
301-400 Yards	17	Degrass	Rd	Turlick	152,100
301-400 Yards	4	Degrass	Rd	LaChance	211,300
301-400 Yards	8	Lisa	Ln	Cullen	262,200
301-400 Yards	2	Lisa	Ln	Provencher	218,500
301-400 Yards	87	Old Great Neck	Rd	Coleman	206,100
301-400 Yards	2	Summersea	Ln	Berger	561,500
301-400 Yards	11	Summersea	Rd	Corrigan	329,600

Finance 8 of 10

Distance	Number	Street	Suffix	Owner	Total Value
301-400 Yards	9	Summersea	Rd	Omara	366,500
301-400 Yards	7	Summersea	Rd	Ruo	350,500
301-400 Yards	5	Summersea	Rd	Gasparrini	586,000
301-400 Yards	1	Summersea	Rd	Kuleshov	357,500
301-400 Yards	2	Summersea	Rd	Herwald	525,400
301-400 Yards	4	Summersea	Rd	Coughlin	532,300
301-400 Yards	8	Summersea	Rd	Rucky	568,900
301-400 Yards	12	Summersea	Rd	Fine	730,900
301-400 Yards	0	Summersea	Rd	Gombos	1,000
301-400 Yards	16	Summersea	Rd	Gendron	963,900
301-400 Yards	20	Summersea	Rd	Rand	650,100
301-400 Yards	17	Summersea	Rd	Dibuono	610,000
301-400 Yards	1	Summersea	Ln	Mahoney	352,700
301-400 Yards	20	Red Brook	Rd	Brennan	3,987,200
301-400 Yards	7	Four Seasons	Dr	Vacation Resorts International	272,600
301-400 Yards	11	Four Seasons	Dr	Vacation Resorts International	272,600
301-400 Yards	13	Four Seasons	Dr	Vacation Resorts International	266,300
301-400 Yards	23	Four Seasons	Dr	Vacation Resorts International	166,700
301-400 Yards	27	Four Seasons	Dr	Vacation Resorts International	269,400
301-400 Yards	29	Four Seasons	Dr	Vacation Resorts International	267,300
301-400 Yards	35	Four Seasons	Dr	Vacation Resorts International	257,500
301-400 Yards	41	Four Seasons	Dr	Vacation Resorts International	269,900
301-400 Yards	49	Four Seasons	Dr	Vacation Resorts International	267,300
301-400 Yards	16-1	Four Seasons	Dr	Vacation Resorts International	284,200
301-400 Yards	16-2	Four Seasons	Dr	Vacation Resorts International	572,600
301-400 Yards	20	Four Seasons	Dr	Vacation Resorts International	285,100
301-400 Yards	26	Four Seasons	Dr	Vacation Resorts International	282,900
301-400 Yards	30	Four Seasons	Dr	Vacation Resorts International	266,500
301-400 Yards	36	Four Seasons	Dr	Vacation Resorts International	266,500
301-400 Yards	31	Four Seasons	Dr	Vacation Resorts International	267,300
301-400 Yards	33	Four Seasons	Dr	Vacation Resorts International	269,400
301-400 Yards	43	Four Seasons	Dr	Vacation Resorts International	269,400
301-400 Yards	45	Four Seasons	Dr	Vacation Resorts International	266,600

Finance 9 of 10

Distance	Number	Street	Suffix	Owner	Total Value
301-400 Yards	47	Four Seasons	Dr	Vacation Resorts International	266,400

France 10 of 10

Health

- The Telecommunications Act of 1996 that is outdated and should be updated to reflect the current magnitude of cell phone usage
- This law prohibits rejection based on environmental impacts including health. There are in fact hundreds of pages of research outlining the negative effects of RMF exposure.
- Attached page 2 of a 32-page report from the International Fire Fighters Association which is posted on their webpage with their position on health effects: full report available on request
- Attached is a overview copy of a study done on the effects of continuous exposure of E.M.F. the full report is available from the contact listed

Health 1 of 6

Pilot Study Shows Dramatic Difference In Brain Activity With EHS (Electrohypersensitive) Cases As Compared To Controls (Non EHS).

PRESS TELE-CONFERENCE, THURS., Dec. 7th, 12 NOON PST.

This is the first known published study to show pictures of EHS on an fMRI.

NEWS PROVIDED BY
The Peoples Initiative Foundation →
Dec 05, 2017, 09:37 EST

health 3 of 6

LOS ANGELES, Dec. 5, 2017 /PRNewswire/ -- The Peoples Initiative Foundation has announced the conclusion of a pilot study they organized, headed up by Dr. Gunnar Heuser, showing EHS on an fMRI. This study was originally published by Degruyter in July of 2017, but was absent pictures of the controls. The company waited until the pictures were placed in the study to issue this press release, as the visual difference between the cases and controls is quite dramatic.



Figure 5: Lateral view of case no. 5.

Figure 11: Lateral view of a normal fMRI. Note absence of abnormal white areas seen in the

Exposure to wireless devices and infrastructure is believed to have been the cause of the EHS in the cases.

Health
406

Below are 2 sample pictures from the study. The large white area on the left side of the left picture shows hyperconnectivity in the brain of a case (EHS person). The same small white area in the picture to the right shows normal brain activity in a control (non EHS person).

EHS or "electrohypersensitivity" in civilian terms, "microwave radiation poisoning" in military terms, is an RF (radio frequency) or microwave radiation induced illness whose very existence is hotly debated by government and wireless industry scientists and personnel. This study provides evidence that abnormalities exist in the EHS brain that are not present in the non EHS brain and could put an end to the debate on the existence of EHS. It also defies the widely held governmental and wireless industry stance that wireless devices and infrastructure have no consequences to human health and could impact the prevailing opinion of wireless radiation being deemed safe.

The Peoples Initiative Foundation will be holding a tele-press conference to take questions from the media Thurs. Dec. 7th @ 12 noon PST. The study's principle author, Dr. Gunnar Heuser will be on the call to take questions about the study, as well as Liz Barris, study organizer and one of the EHS cases in the study to take questions about EHS.

Health
5 of 6

Journalists on deadline who RSVP by emailing: contact@thepeoplesinitiative.org with the # they will be calling in from will be given first priority in the tele-press conference queue.

Please call 515-739-1219 access code 283521#

Emergency back up # only in case above # has problem:
605-472-5616 access code 106520#

For free abstract and purchase of full text of the study with case pictures go here... <https://www.degruyter.com/view/j/reveh.2017.32.issue-3/reveh-2017-0014/reveh-2017-0014.xml>

Corrigendum and control pictures here..
<https://www.degruyter.com/view/j/reveh.2017.32.issue-4/reveh-2017-0027/reveh-2017-0027.xml?format=INT>

www.thepeoplesinitiative.org
contact@thepeoplesinitiative.org
310-281-9639

SOURCE The Peoples Initiative Foundation.

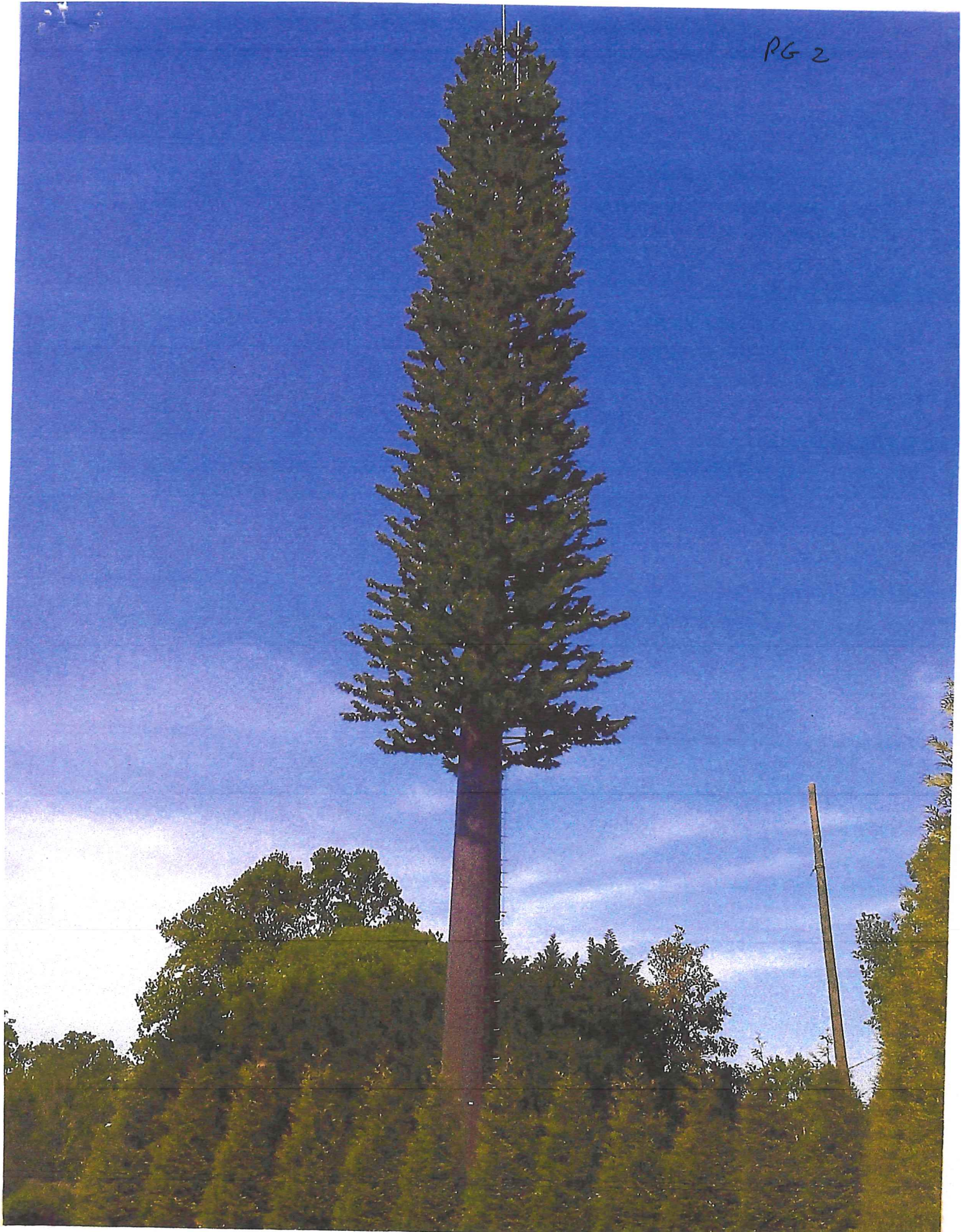
Health
6 of 6

Larson Camouflage

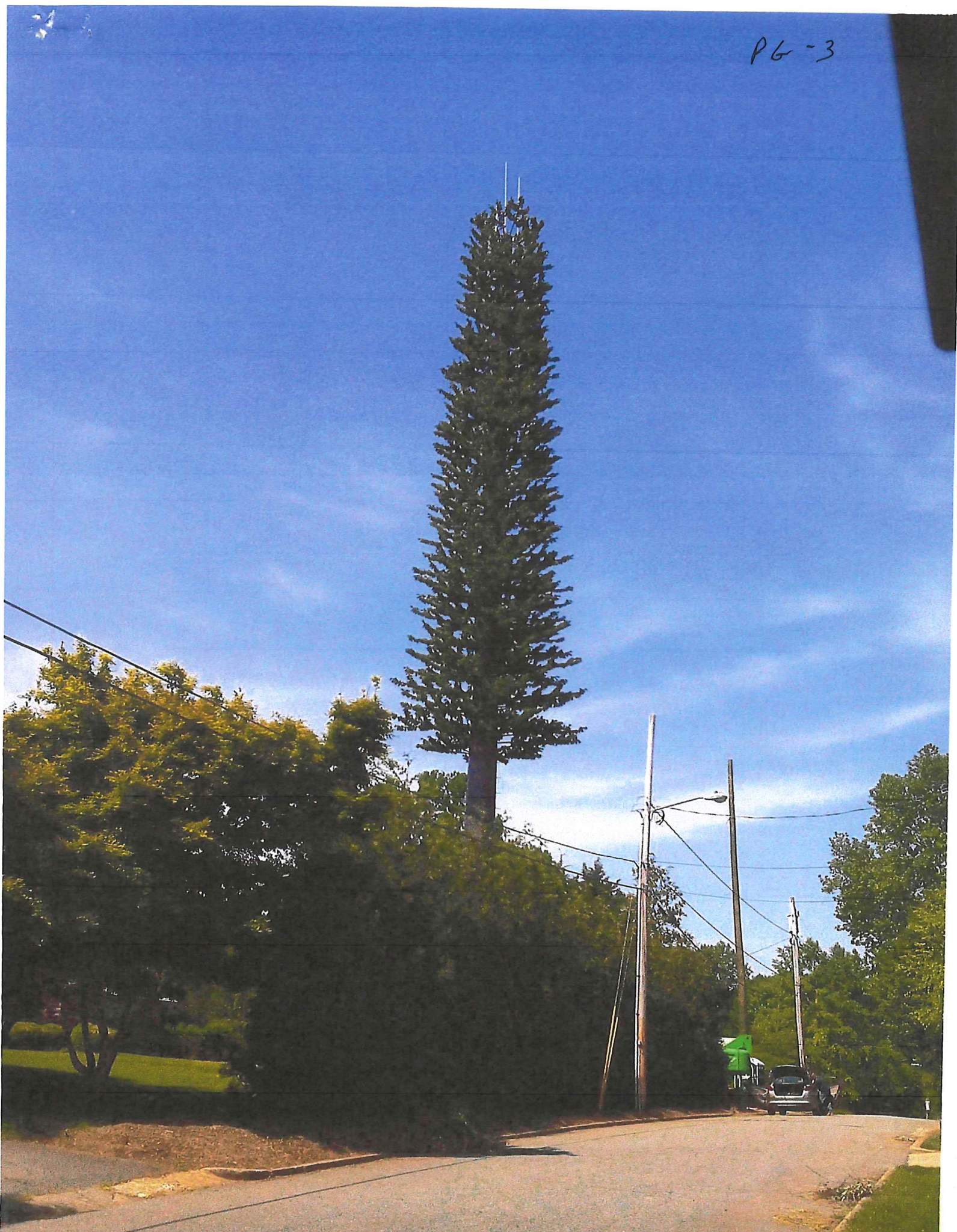
Min Requirement for Mono Pine

- (A) 3 Branches per Lin Ft
- (B) Antenna socks
- (C) Antenna branches
- (D) Branches full length
- (E) Simulated bark on the main pole

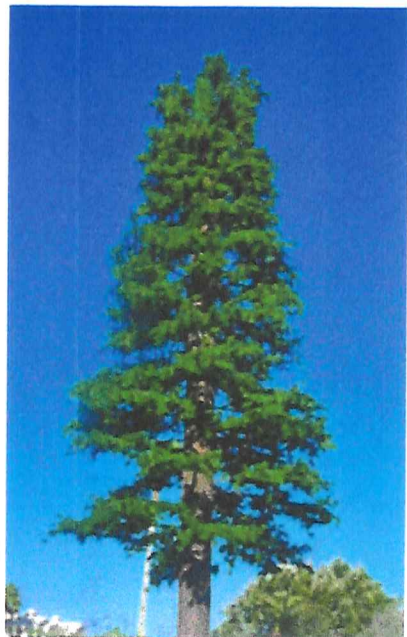
PG 2



PG-3



PG-4

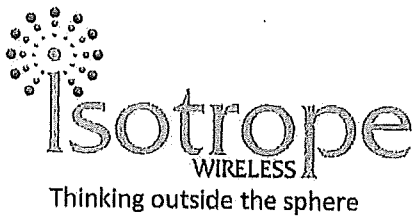


3 Branches per ft
with Antenna socks
larson camouflage

This report was authored by Mr. David Maxon of Isotrope Wireless. He is the Cape Cod Commission's hired consultant for this cell tower project. As you can see Mr. Maxon has multiple issues with the project including but not limited to:

- Proof of proper zoning
- Proof of needed height
- Proof of "coverage capacity problem" or "coverage gap"
- Location of the tower in relation to coverage needed
- Suggest it should be located further south
- Does not fully address the proposed coverage area
- Will need additional tower or small cell O.D.A.S. system for proper coverage
- Coverage tests were done with no foliage to show better coverage
- Not clear if T-Mobile will use 700 MHz or 2100 MHz
- Suggest encouraging low impact facilities such as (O.D.A.S.) using utility poles to properly cover the area

As you can see there are multiple issues addressed in this report that the Cape Cod Commission chose to ignore in their approval. We feel this board will have the best interests of the Town of Mashpee in mind when reviewing this proposal.



Review of Blue Sky Towers DRI Application for Cell Tower at Mashpee Fire Station 2

The Cape Cod Commission engaged Isotrope to review the DRI application by Blue Sky Towers II, LLC to build a wireless facility and 150-foot monopole cell tower at the Mashpee Fire Station site at 101 Red Brook Road. Personal Wireless Service providers T-Mobile and Verizon participate in support of the application by providing the required information about wireless coverage needs.

Isotrope focused on the site plans, visual impact analysis, wireless coverage analysis, radio frequency energy safety analysis and noise analysis. The wireless coverage analysis is addressed under the aegis of the Wireless Technical Bulletin 97-001, as revised.

Recommendations

Several suggestions are made in this report:

- Verizon could provide proof of need for the height by providing coverage analysis 25 feet lower and 50 feet lower. (It is explained that height also benefits co-location, so the requested information informs the findings, it does not dictate a lower height.)
- T-Mobile could refocus its coverage analysis on in-building only and overlay coverage from both 700 MHz and 2100 MHz licenses. (caveats to this format are discussed in the narrative)
- T-Mobile could provide proof of need for the height by providing coverage analysis 25 and 50 feet lower.
- It is not clear why the applicant asserts the facility is in the Mashpee Wireless facilities Overlay District. Additional evidence is recommended, as this affects the required findings of the Commission.
- The visual impact analysis contains some discrepancies that could be corrected. (see discussion for details)

Technical Bulletin

The Wireless Technical Bulletin has performance criteria for a proposed wireless communications facility. It also contains submission guidelines for applications. To the extent we identify additional material would be helpful, it is recommended herein. This report does not endeavor to perform a checklist review of the materials submitted.

①



Location

The applicant was unable to identify existing structures within the general service area of the proposed tower that could be used in lieu of a new tower. If the Commission or the public have any suggestions, we and the applicant can review them.

Dimensional Requirements

General Height

The Technical Bulletin imposes an average-height-of-buildings-within-300-feet criterion for establishing the permissible tower height. For wireless communication facilities, this criterion is generally not viable. Also, because there are so few buildings near the proposed facility, the average height criterion is not relevant to the conditions. An average building height criterion can be helpful in densely developed areas, such as downtowns.

The Technical Bulletin says the tower design must be camouflaged if it exceeds the height limits of the zoning district. The proposed tower arguably does not exceed the zoning height limit in Mashpee. This is because the customary district height limit is preempted in the Mashpee zoning bylaw for wireless towers. The Mashpee zoning district height limit is preempted by footnote 4 of the Mashpee Zoning Bylaw Land Space Requirements Table (§174-31). The Mashpee zoning bylaw has tower height regulations that are like the requirements in the Technical Bulletin. (General height, Ground-mounted Height, etc.) Within the Mashpee Wireless Facility Overlay District, tower heights may be to 100 feet with a waiver to up to 200 feet allowed under appropriate circumstances.

Camouflage under the Technical Bulletin relates to the materials and design of the antenna structure, not to the screening by vegetation. If the camouflage requirement applies, additional discussion is necessary to address the camouflage requirement. However, because the Mashpee height limit is not exceeded, perhaps the Technical Bulletin camouflage requirement does not apply, or is eligible for waiver because of the wooded location and visual impact analysis. It is left to the Commission to make an interpretation.

Ground-Mounted Tower Height

The Technical Bulletin applies a combination height limit for Ground-Mounted Facilities. It invokes the average-building-height criterion and allows a tree-height criterion if there are no buildings within 300 feet. No 300-foot radius was seen on the submitted plans, however it is safe to observe that within 300 feet there is only the fire station building, which is on the same parcel. The tree-height criterion has the same conflict with good engineering practice, in typical cases, as the average-building-height criterion; both are in opposition to the needs of wireless facilities in most cases to be near or above the peak building or tree height in a given location.



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Ground-mounted facilities with no buildings within 300 feet must be surrounded by dense tree growth. Regardless of whether this criterion strictly applies in this case, the facility is surrounded by dense tree growth to the nearest property lines more than 200 feet away.

Overlay District Height

The tower can exceed the foregoing height criteria if it is within a Wireless Facility Overlay District. The applicant says the facility is in an overlay district. The 2016 zoning bylaw does not explicitly list the map/parcel as being within the overlay district.

The general clause allows parcels that are not subject to certain limitations. The applicant has not substantiated whether the proposed site is free of those limitations.

§174-5 C.(2) [The Wireless Facility Overlay District shall include]...

lands in the Town which are not located within the boundaries of the Mashpee National Wildlife Refuge, within one thousand (1,000') of a Historic District or of structures or places listed in the Massachusetts State Register of Historic Places, within the Otis A.N.G.B. Accident Prevention Zone within the R-3 or R-5 zoning districts or within three hundred (300') feet of the right of way of any designated scenic roadway.¹

The parcel is within the R3 District (see footnote). Moreover, there is no evidence of a 1000' radius being studied for historic properties. Specific proof that the relevant roads are not designated scenic might be requested, as well.

If the facility is not within the overlay district, it appears a variance will be required to satisfy the Mashpee zoning bylaw. If so, there might be locations within the overlay district that would not require a variance.

Visual Impact Analysis

The application includes a visual impact analysis (Exhibit 6) prepared by Virtual Site Simulations, LLC ("VSS") based on a balloon test it conducted from the site. While the general structure of the

¹ Note that the reference to zoning districts R3 and R5 is not preceded by a comma. Literally, this phrase lacking the comma might be intended to mean "within the Otis A.N.G.B. Accident Prevention Zone within the R3 or R5 zoning district." The accident prevention district is in another part of town and overlaps only some R3 and R5 territory. It seems unnecessary to invoke R3 and R5 if the accident prevention district is the objective (assumes no comma); it also seems unnecessary to invoke the accident prevention district separately from the R3 and R5 if all R3 and R5 areas are the objective (missing comma). The latter interpretation (missing comma, making the overlay exclusion apply to all R3 and R5) would exclude substantial areas in Mashpee, making it very difficult to site a tower without a use variance.



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photosimulation and visual impact report is consistent with current practice, we note what appear to be some discrepancies in scale.

The simulation of location #3 and the simulation of location #4 are markedly different in apparent size, despite the fact they are comparable distances from the proposed tower site (0.14 versus 0.17 miles – a 21% increase in distance). One would expect a proportional decrease in apparent size from photo #3 to photo #4. However, the photo #4 tower and antennas seem to be less than half of the size of those in photo #3.

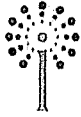
The balloons in the original photos for #3 and #4 are also mismatched. This suggests the original photos are taken with different degrees of lens zoom. Best practice favors using 50 to 85 mm equivalent focal lengths.²

It appears photo #4 was taken with a wider field of view, suggesting a wide-angle lens. This creates an unrealistically distant impression of the tower. The equivalent focal lengths of all images should be reported on each photo's legend. Images should be about 50 mm equivalent focal length, except for vista shots, where the viewer might visually attend to the tower, when up to 85 mm focal lengths would be appropriate.

The method of inserting the tower image is not disclosed. Best practice is based on a 3D CAD model of a tower, in which the image of the tower is corrected for perspective and distance. The closer the photo is to the tower, the more perspective (viewing up underneath the antenna platforms) the tower image should have. Both the focal length (and corresponding field of view) and the 3D model of the tower can be employed in a mathematically rigorous way to produce an accurate photosimulation.

The photosimulation service should provide a description of methodology that explains how the photos were taken, how the relative size of the tower was established, and how the perspective of the tower based on observer distance was established.

² It is customary to refer to focal lengths with respect to traditional 35 mm film formats. Digital cameras have different sensor sizes and correspondingly different focal-length-to-field-of-view ratios. This report uses 35 mm format *equivalent focal lengths* to normalize discussion of the images.



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Photosimulation #3 at 0.14 mi.

Photosimulation #4 at 0.17 mi.

Same scale from both images.

Note how the #4 tower seems much more distant despite the minor change in camera distance.

Noise Analysis

A professional noise analysis was performed and documented (Exhibit 18) by Modeling Specialties. The noise analysis employed best practices to arrive at its conclusions.

Radio Frequency Energy Safety Analysis

The radio frequency energy safety analysis prepared by Dr. Haes (Exhibit 19) appropriately assesses the combined impact of multiple facilities that could operate at the site. Isotrope agrees with the Haes report's conclusions that the radio frequency emissions will be compliant with federal and state guidelines by a substantial margin. The general population will not be exposed to unsafe levels of emissions from the proposed facility.

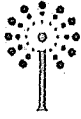
Co-Location

The applicant is in the business of providing tower space to wireless carriers and has an incentive to provide space to as many co-locators as possible. Two carriers are participating in the process, demonstrating commitments to occupy the tower.

Site Plans

The site plans (Exhibit 5) Prepared by Pro Terra Design Group show a facility with the typical configuration for multiple wireless carriers. The Verizon and T-Mobile equipment are laid out in the plan, accompanied by sufficient space reserved on the ground and the tower for two additional carriers. The Verizon installation employs the traditional 3-sector antenna arrays mounted on a triangular tower platform.

T-Mobile has begun employing four-sector arrays on square platforms. The additional sector enables T-Mobile to provide more capacity to the surrounding area by breaking it into four instead of three service sectors. The detail plan shows the square platform. The overall plan views of the site are simplified by showing the triangular form of the Verizon platform without the square T-



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Mobile platform below it. Provided the reader is aware of this variation in platform design, there is no need to correct the drawings.

T-Mobile does not plan to use a generator. Verizon does. One propane tank is proposed, with space reserved for a second propane tank in the event another carrier proposed a generator for its facility. (The noise study included a hypothetical second generator and other carriers' equipment in a combined noise analysis.)

Fall Zone

A fall zone equal to the height of the tower plus appurtenances is required. The proposed tower has well more than the required ~150-foot setback from property lines.

A legal interest in the fall zone is required of the applicant, "to meet the requirements of this section." It could be inferred that meeting the requirements means ensuring that in the future the fall zone will continue to protect "any property line, road, habitable dwelling, business or institutional use, or public recreational area..." The lease area is 100x100 feet, which is not enough to cover the fall zone. The applicant suggests "The Owner, the Town of Mashpee, understands the nature of the fall zone requirements under the Town and the Cape Cod Commission's regulations." The Commission could determine whether Town ownership is sufficient to meet this requirement, or if additional protections are in order.

Coverage or Capacity Problem

The Technical Bulletin seeks a demonstration of a coverage or capacity problem requiring a solution. No capacity statistics have been provided for the record, and the applicant's two tenants have provided coverage analysis to support their claims. Note that the determination of a "coverage or capacity problem" is not necessarily the same as a determination of a "coverage gap" under federal law.

As the Commission is aware, if a proposed wireless facility is not approved and the non-approval results in an effective prohibition of the provision of personal wireless service, the applicant has recourse under federal law (advice of counsel is always recommended in dealing with the federal obligations for the placement of wireless facilities). In this report, the focus is on the applicant's tenants' description of a "coverage problem" and not on whether there is a significant gap in wireless service.

Prospective tenants Verizon and T-Mobile provided coverage analyses of their networks in the area of the proposed tower. Verizon notes three roads with 2500-5000 vehicles per day are in the affected area, plus streets, residences and businesses within the area of, and including, Red Brook Road, Great Oak Road, Great Neck Road South, Monomoscoy Road and Rock Landing Road.



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Verizon

Verizon provides coverage maps that rely on its customary signal level thresholds for service to areas developed like the Mashpee area is (-95 dBm RSRP). Existing coverage is below this threshold in the targeted area. Verizon uses the coverage from its 700 MHz licenses, because this is the most optimistic. In other words, 700 MHz goes the farthest through terrain and vegetation, so it is a good indicator of the maximum service area available from existing facilities.

The proposed site is on the southern edge of coverage from the existing Mashpee site about 1.5 miles to the north. Ordinarily, wireless carriers prefer to place new facilities in the middle of the area of poorest service. This would be about ¾ mile south of the proposed site, near the intersection of Hush Road and Great Oak Road.

To compensate for the proposed location being offset to the north, the Verizon facility design is not intended to fully cover a 360-degree service area. Instead, the blue wedges on the coverage map show that the proposed facility would focus antennas to the east, south and west, ignoring the northerly direction. A location more to the south would better serve the densely developed New Seabury area, providing better coverage and more capacity to where the demand for services is likely the highest.

There remains a pocket in Popponesset that would not realize substantial improvement in service from the proposed facility. Future expansion might need to rely on utility-pole and rooftop-mounted small cells to provide fill-in coverage and capacity during peak season.

Verizon has provided no data on whether the proposed height is necessary. Clearly, the proposed tower is intended to co-locate potentially all four of the current wireless carriers, and establishing the minimum height for Verizon is not a way to literally establish the tower height, unless the proposed height needs to be mitigated at the expense of potential co-location.

It could be helpful to see projected Verizon coverage from a 125-foot tower (121 ft center) and a 100-foot tower (96 ft center), overlaid on existing coverage. This helps show how 700 MHz coverage would diminish not only for Verizon, but for other potential co-locators, as the height is reduced. This will help inform a decision whether 150 feet is reasonable and necessary from the standpoint of coverage, co-location and visual impact.

The Verizon drive test map is reasonably consistent with the computer predictions, which validates the computer predictions. The drive testing was done with no foliage, so it is expected to show better coverage than the computer predictions, which it does.



T-Mobile

T-Mobile makes a slightly different presentation. T-Mobile ignores its 700-MHz frequency band and provides coverage analysis for its weakest service – 2100 MHz. This understates the total coverage because T-Mobile has a 700 MHz license and is building out a 600 MHz license. These lower frequencies penetrate terrain and foliage much better than 2100 MHz. For now, T-Mobile focuses on 2100 MHz because it has substantially more capacity than the 700 MHz license. Under T-Mobile's circumstances, we recommend that both the 2100 MHz service and the 700 MHz service be shown together. The 700 MHz coverage shows how far the T-Mobile facility can reach with a specific grade of service, while the 2100 MHz coverage shows where high demand for capacity (densely developed or occupied areas) is best.

T-Mobile also shows two tiers of coverage – in-building (green at -97 dBm, similar to Verizon's maps) and in-vehicle (yellow at -114 dBm, not shown by Verizon). T-Mobile demonstrates that in vehicles and outdoors, its existing coverage (at 2100 MHz) in the area near the proposed tower is readily available. In-vehicle coverage dissipates in the areas of New Seabury and Popponesset.

T-Mobile's drive test map is much more pessimistic than the coverage predictions. Since the drive testing was performed by a different party than that were the computer predictions, there may be some differences in method that are not reconciled. We rely on the computer-predicted maps.

Like Verizon, T-Mobile's dominant coverage needs are substantially south of the proposed site. T-Mobile's best coverage at 2100 MHz falls on the least densely populated area to be served by the proposed tower, including the wildlife refuge.

T-Mobile also provides no evidence of the need for the height proposed. The same trade-offs between coverage and tower co-location apply to T-Mobile as they do to Verizon (discussed above).

T-Mobile could provide coverage maps using the -97 dBm threshold for 2100 MHz (and its equivalent at 700 MHz) to illustrate the two stages of in-building coverage available today, and with the proposed facility. Then it could add coverage analysis from a 125-foot tower (110 ft antenna center height) and a 100-foot tower (85-foot antenna center height). These will inform findings about height versus coverage, co-location potential and visual impact.

Coverage Need in General

In general, the two sets of coverage analysis suggest that the New Seabury and Popponesset areas will obtain improved service from the proposed tower, in addition to the roads and lighter development near the proposed tower. However, the sheer density of these areas suggests that in the long run, additional facilities will be needed central to New Seabury and Popponesset to handle the volume of demand (capacity) and the need for better signal strength (coverage and



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capacity) in these developed areas. Local regulations should anticipate this future need by encouraging low-impact facilities such as small cells on utility poles and rooftops in these densely developed areas.

Telecommunications Act of 1996

If there is sufficient reason under DRI regulations to not approve the proposed tower, the Commission is obliged to avoid making a decision that effectively prohibits the provision of personal wireless services in the subject area. Assuming there is what the courts would consider to be a significant gap in service, there would have to be alternatives for the applicant's tenants to the proposed tower. An assessment of potential alternative locations would determine whether non-approval would cause an effective prohibition. It is encouraging that the Mashpee zoning bylaw contemplates wireless facilities on any parcel that complies with the several specific limitations. Whether any such parcels are nearby, or potentially farther south has not been explored. If the Commission is inclined to not approve the application, further work on alternatives is recommended first.

David Maxson, WCP
August 10, 2018

Zoning

- Attached are two letters sent to the Cape cod Commission to validate proper zoning in the Wireless Overlay District. As you can see neither letter fully validates proper zoning
- Attached is the Wireless Overlay District map voted on and accepted at October 1998
- Town Meeting and accepted by the state Jan.1999. As the map shows the proposed location is clearly NOT in the Wireless Overlay District
- If the applicant Blue Sky Towers chooses to continue with the special permit process for a wireless facility outside the wireless overlay district, the fire station building is approx. 180-200' away thus triggering to zoning section to allow by special permit a tower 10' taller than the fire station building

Zoning 1 of 9

* This letter was submitted to the Cape Cod Commission to validate proper zoning you will notice that R-3-B-5 zoning is not marked "COMPLIANT"



OFFICE OF THE TOWN PLANNER

MASHPEE PLANNING DEPARTMENT

MEMORANDUM

To: Mr. Jonathan Idman, Chief Regulatory Officer, Cape Cod Commission

From: Mr. Evan Lehrer, Town Planner

Date: August 21, 2018

Re: 101 Red Brook Road Wireless, Tower Development of Regional Impact:
Consistency with Local Land Development Regulations and Comprehensive Plan

Zoning

Personal Wireless Service Facilities are discussed in Article IX: Special Provisions of the Mashpee Zoning bylaw. **Wireless facilities of the height proposed by the applicant are allowable by Special Permit from the Planning Board only within the Wireless Facility Overlay District.**

§174-45.3(C)(3)

"A personal wireless service facility that exceeds the height restrictions of Subsections E(1) through (5) may be permitted by Special Permit, as specified in Subsection C(2), in a designated Wireless Service Overlay District provided that the proposed facility complies with the height restrictions of Section E(6), and all of the setback and other regulations set forth in this section."

At 150' in height, the proposed monopole exceeds the height restrictions of §174-45.3(E)(1) and may be permitted within the Wireless Facility Overlay District as the proposed height complies with Subsection E(6).

- Planning Board may grant a waiver for any tower higher than 100' but not more than 200'.
- Monopoles preferred

NOTE: PLANNING BOARD HAS DISCRETION TO REDUCE REQUIRED FALL ZONE AND OR SETBACK DISTANCE UP TO 50% OF TOTAL HEIGHT.

§174-5 Establishment of Zoning Map:

The Wireless Facility Overlay District shall include:

1. The area within the two hundred ten (210') foot wide Commonwealth Electric Company transmission line easement running generally east-west between the Falmouth town line and the Barnstable town line, except that portion within the boundaries of the Otis A.N.G.B. Accident Prevention Zone; **COMPLIANT**
2. all other lands in the Town which are not located within:
 - the boundaries of the Mashpee National Wildlife Refuge, **COMPLIANT***
 - within one thousand (1000') feet of the mean high water line of a Great Pond or a tidal water body, **COMPLIANT**

zoning 2 of 9



OFFICE OF THE TOWN PLANNER

MASHPEE PLANNING DEPARTMENT

- within Historic Districts, within one thousand (1000') feet of a Historic District or of structures or places listed in the Massachusetts State Register of Historic places, **COMPLIANT**
- within the Otis A.N.G.B. Accident Prevention Zone R-3 or R-5 Zoning Districts
- or within three hundred (300') feet of the right of way of any designated scenic roadway. **COMPLIANT**

Initial review of the application for this project showed that 101 Red Brook Road is located within the acquisition boundary of the refuge but not actually included as a parcel that is member to the Mashpee National Wildlife Refuge's composition. It is considered "unprotected land that has the potential for being developed" and should thus be identified as within the Wireless Facility Overlay as defined within the Mashpee Zoning Bylaw.

Attachments:

Attachment 1 shows a map generated using the Town of Mashpee Interactive GIS Mapping tool. Further research has shown that the interactive map fails to show greater detail with regard to the parcels included in the National Wildlife Refuge. The interactive map shows the acquisition boundary of parcels recommended for inclusion within the Refuge, but not all parcels were acquired for this use and are not under the same protection as indicated by the map shown in Attachment 2 from the US Fish and Wildlife Service.

The US Fish and Wildlife Service was notified of this proposal and a phone conversation corroborated that there are no issues with development at 101 Red Brook Road. **It has been my determination that this parcel is within the acquisition boundary of the refuge but not technically included as part of the Mashpee Wildlife Refuge and should thus be identified as within the Wireless Facility Overlay.**

The proposal is not within the mean high water line. It is miles from the only historic district in Mashpee (Main St.), and miles from Route 6A (Old King's Highway), the only designated scenic roadway on Cape Cod.

zoning 3 of 9



OFFICE OF THE TOWN PLANNER

MASHPEE PLANNING DEPARTMENT

Local Comprehensive Plan

The Cape Cod Commission certified Mashpee's Comprehensive Plan on July 30, 1998. Data used to craft the plan was collected as early as 1992. Given the significant need to update the plan I will cite the Mashpee Zoning Bylaw's reference to the Wireless Facility Overlay's consistency with the approved plan. I don't believe the 1998 Comprehensive Plan will provide the most accurate long range planning vision and goals of Mashpee's demographic today.

The purpose and intent of the Personal Wireless Service Facilities Section of the Zoning Bylaw reads,

"The regulation of personal wireless service facilities is consistent with the purposes of the Mashpee zoning bylaw and the planning efforts of the town through its comprehensive plan, including those intended to further the conservation and preservation of developed, natural and undeveloped areas, wildlife, flora and habitats for endangered species, the preservation of coastal resources, protection of natural resources, balanced economic growth, the provision of adequate capital facilities, the coordination of the provision of adequate capital facilities with the achievement of other goals and the preservation of historical, cultural, archaeological, architectural and recreational values.

zoning 4 of 9

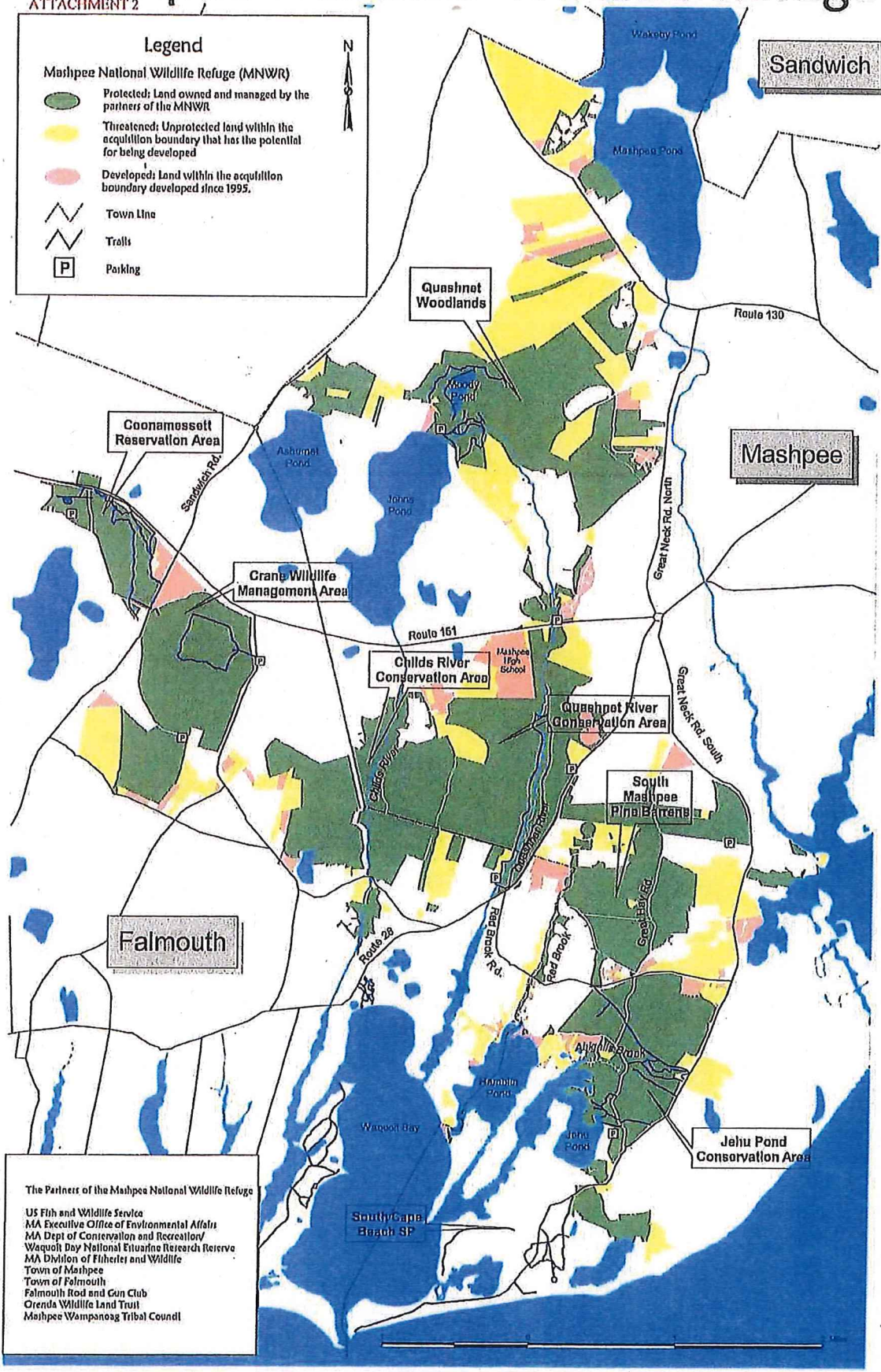
Mashpee National Wildlife Refuge

ATTACHMENT 2

Legend

Mashpee National Wildlife Refuge (MNWR)

- Protected: Land owned and managed by the partners of the MNWR
- Threatened: Unprotected land within the acquisition boundary that has the potential for being developed
- Developed: Land within the acquisition boundary developed since 1995.
- Town Line
- Trails
- Parking



The Partners of the Mashpee National Wildlife Refuge

- US Fish and Wildlife Service
- MA Executive Office of Environmental Affairs
- MA Dept of Conservation and Recreation
- Waquoit Bay National Estuarine Research Reserve
- MA Division of Fisheries and Wildlife
- Town of Mashpee
- Town of Falmouth
- Falmouth Rod and Gun Club
- Orenda Wildlife Land Trust
- Mashpee Wampanoag Tribal Council

zoning 5 of 9

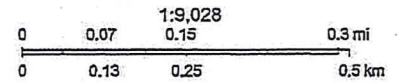
wireless tower

zoning lot 9

ATTACHMENT 1

May 11, 2018

- Override 1
- Tower Overlay
- Parcel Lines
- Street Names
- Mashpee_Boundary



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

* This letter was submitted to the Cape Cod Commission to validate proper zoning you will notice that R-3 and R-5 zoning is not addressed in this letter by town council

From: Patrick Costello <pcostello@lccplaw.com>
Sent: Monday, September 24, 2018 4:49 PM
To: Rodney C. Collins
Subject: RE: Cell Tower - Mashpee Firestation

Town Manager Collins:

Per your request, I submit the following summation of the basis for my opinion that the subject Town property on Red Brook Rd. is included within the Wireless Facility Overlay District defined in the Town Zoning Bylaw. My reading of the Zoning Bylaw, §174-5.C.2, which provides that "The Wireless Facility Overlay District shall include..... all other lands in the Town which are not located within the boundaries of the Mashpee National Wildlife Refuge.... (emphasis added)" would exclude from the Overlay District only those lands which have been acquired in fee by a Refuge partner or otherwise duly restricted by a record easement or other restriction imposed by a Refuge partner for compatible wildlife-dependent recreational and other uses. The subject parcel has not yet been so acquired or restricted, thus, it is not yet "within the boundaries of" the Refuge. As such, I believe it is located within the Wireless Facility Overlay District.

The intent of the key language of the subject Zoning Bylaw ("within the boundaries of the Mashpee National Wildlife Refuge") could, arguably, be subject to varying interpretations. The Bylaw could well have specified "within the acquisition boundaries of the Mashpee National Wildlife Refuge" (to the extent that "acquisition boundary" is an otherwise specifically defined term) to avoid any ambiguity, but it doesn't do so. Construing the terms of the Bylaw by their plain language would warrant the position that the boundaries of the Refuge are determined by the boundaries of those protected lands acquired or secured by Refuge Partners.

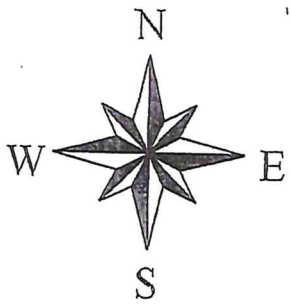
Pat

Patrick J. Costello
Louison, Costello, Condon & Pfaff, LLP
101 Summer Street
Boston, MA 02110
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(fax) 617-439-0325

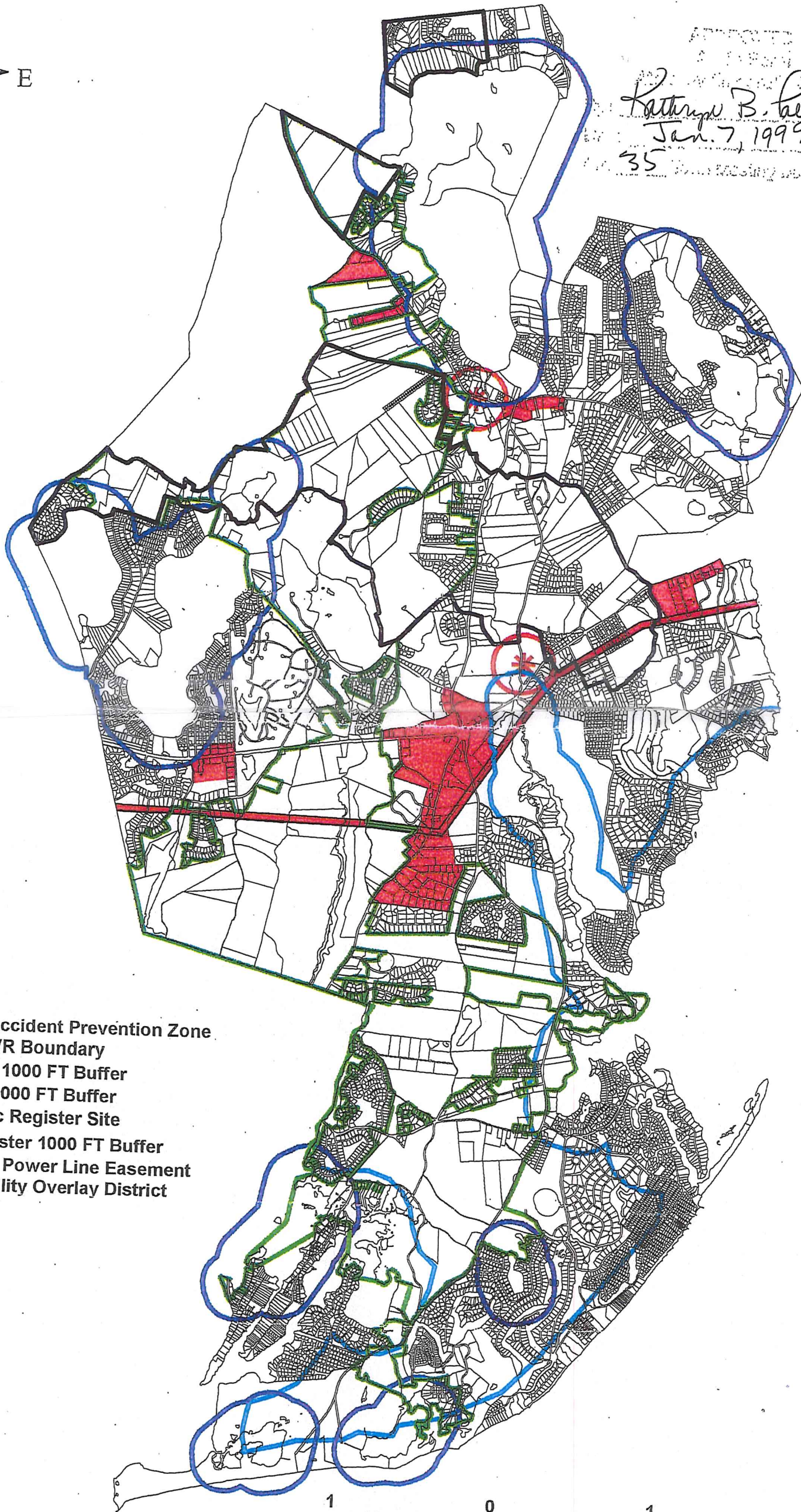
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zoning 8 of 9

WIRELESS FACILITY OVERLAY DISTRICT



Katherine B. Palmer
Jan. 7, 1999
35
10/5/98



-  Otis ANGB Accident Prevention Zone
-  Mashpee NWR Boundary
-  Great Ponds 1000 FT Buffer
-  Tidal Water 1000 FT Buffer
-  State Historic Register Site
-  Historic Register 1000 FT Buffer
-  Com Electric Power Line Easement
-  Wireless Facility Overlay District



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Survey by the National Institute for Science, Law & Public Policy Indicates Cell Towers and Antennas Negatively Impact Interest in Real Estate Properties

94% of respondents said a nearby cell tower or group of antennas would negatively impact interest in a property or the price they would be willing to pay for it

July 03, 2014 01:57 PM Eastern Daylight Time

WASHINGTON—(BUSINESS WIRE)—A survey conducted in June 2014 by the National Institute for Science, Law and Public Policy (NISLAPP) in Washington, D.C., "[Neighborhood Cell Towers & Antennas—Do They Impact a Property's Desirability?](#)", shows home buyers and renters are less interested in properties located near cell towers and antennas, as well as in properties where a cell tower or group of antennas are placed on top of or attached to a building.

Of the 1,000 survey respondents, 94% reported that cell towers and antennas in a neighborhood or on a building would impact interest in a property and the price they would be willing to pay for it. And 79% said under no circumstances would they ever purchase or rent a property within a few blocks of a cell tower or antennas. And almost 90% of respondents said they were concerned about the increasing number of cell towers and antennas in their residential neighborhood, generally. See Full Results here: <http://electromagnetichealth.org/electromagnetic-health-blog/survey-property-desirability/>.

The NISLAPP survey reinforced the findings of a study by Sandy Bond, Ph.D. of the New Zealand Property Institute, and Past President of the Pacific Rim Real Estate Society (PRRES), published in *The Appraisal Journal* in 2006, [The Impact of Cell Phone Towers on House Prices in Residential Neighborhoods](#). That study found buyers would pay as much as 20% less, as determined at that time by an opinion survey in addition to a sales price analysis.

Jim Turner, Esq., Chairman of the National Institute for Science, Law and Public Policy, says, "The results of the 2014 NISLAPP survey suggest there is now high awareness about potential risks from cell towers and antennas, including among people who have never experienced cognitive or physical effects from the radiation." He adds, "A study of real estate sales prices would be beneficial at this time in the United States to determine what discounts homebuyers are currently placing on properties near cell towers and antennas."

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NISLAPP

Emily Roberson, 610-707-1602

er79000@yahoo.com

I agree

O.D.A.S. (Outdoor Distributed Antenna System)

- Attached is an outline of what an O.D.A.S. system is and how it will work
- It not only offers superior performance it will use existing infrastructure without the need for a 150-foot tower or any tower
- The Telecommunications Act of 1996 requires the use of existing infrastructure as a first option
- The upcoming 5G network system will utilize this type of system not large towers thus a tower like the one proposed will be obsolete
- I spoke to David Maxon (see report) about this system. He said administratively a tower would be preferred on a cost to build basis thus cheaper for a multi-million/billion-dollar company at the expense of the surrounding property owners
- David Maxon also said he was hired to review the tower only application that is why the O.D.A.S. system is only briefly mentioned in his report
- As you can see the Peninsula Council AKA The New Seabury Homeowners Association is well aware of the O.D.A.S. system. They also have Cape Cod Commission approval to place a tower at the golf course driving range (since 2014) that location is where David Maxon refers to in his report
- Any information you need or questions you may have can be answered by:
Charlie Parker owner of Ratel Consulting
One Broadway Cambridge, MA.
Phone-781-856-4981 fax-617-714-3964 email Charlie@ratelconsulting.com
- The Provincetown representative on the Cape Cod Commission, Cheryl Andrews, voted against approval of this project because she thought the O.D.A.S system should have been considered for Mashpee as it is currently in place in P-town and works great without a tower.
- Blue Sky Towers in their application state that there is not any existing infrastructure that can be used, however they are a cell tower company and as such they are only obligated to find infrastructure to use as a tower site -sort of bending the rules

ODAS 1 of 11

Distributed Base Station Architecture

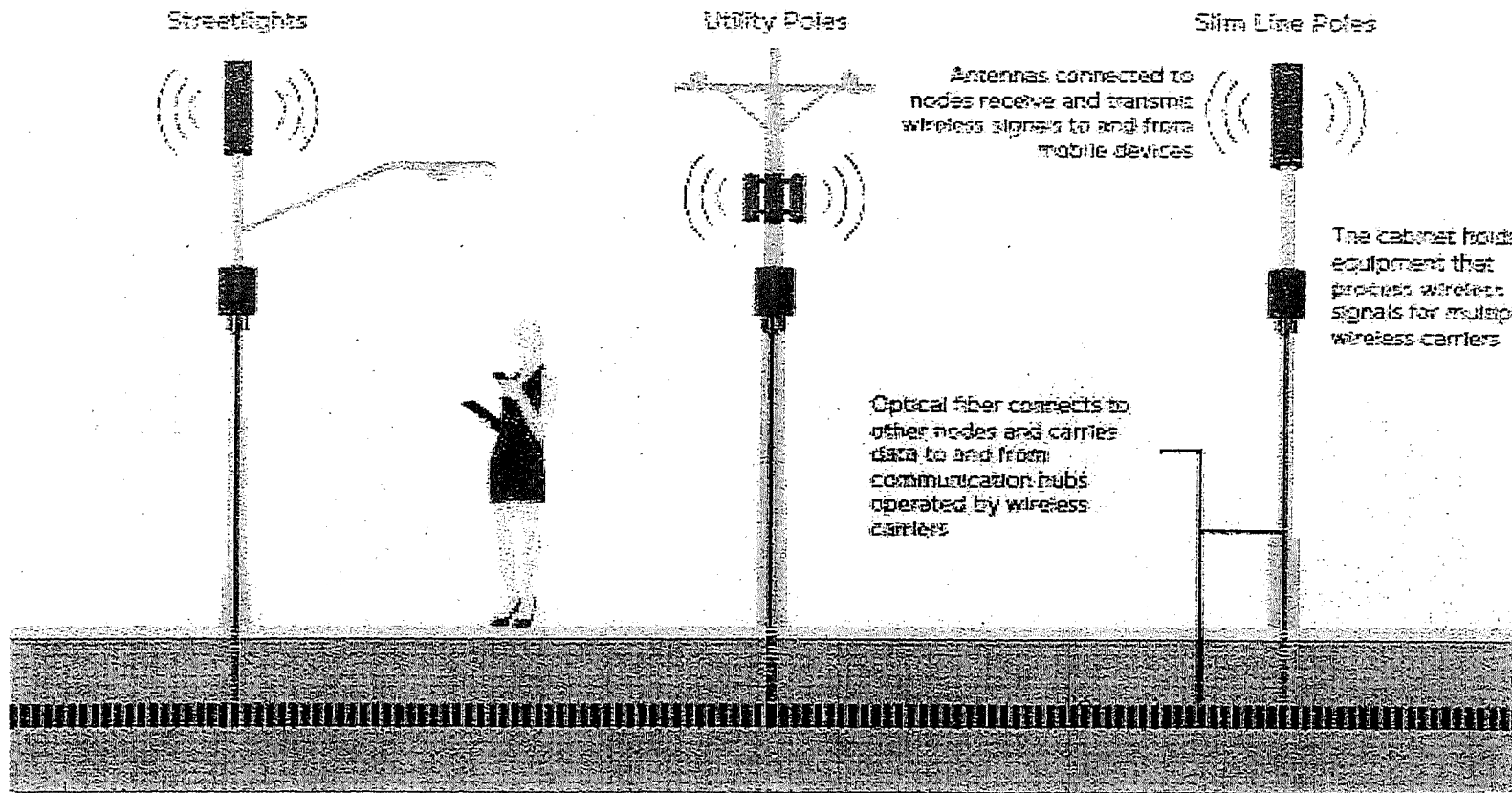
Two main types of (ODAS) mobile communication network architecture exist which offer a superior alternative to the proposed Blue Sky Towers macro-site project:

C-RAN/Cloud-RAN – Antennas or Remote Radio Heads (RRHs) would be placed on existing structures (utility poles, light poles, buildings, etc.) where a communication line connects the RRHs to the core network via fiber or microwave. There is no traditional base station as all signal processing occurs in the cloud. Both Verizon and AT&T are already deploying this technology in San Francisco as it lays the groundwork for their respective 5G networks. It is commercially viable with hardware suppliers that include CommScope, Fujitsu and NEC.

All-In-One Base Transceiver Station – Each antenna or Remote Radio Head (RRH) would be placed on existing structures (utility poles, light poles, buildings, etc.) and has a small base station (<5 ft.³) attached close by. Each micro base station is connected to the core network via fiber or microwave. This technology is well established has been deployed globally for many years now. It is commercially viable with hardware suppliers that include CommScope, Nokia and Alcatel-Lucent.

- Both low-power network architectures would eliminate any need for a high-power macro site like the one proposed by Blue Sky Towers at 101 Red Brook Road.
- Both network architectures utilize existing structures in private rights-of-way which require little if any regulatory approval, unlike the Blue Sky Towers proposal.
- Both network architectures preserve the value of abutting and surrounding properties unlike the Blue Sky Towers proposal.
- Both network architectures have ample attachment points including light poles, buildings and the >100 utility poles throughout New Seabury and Popponesset which are jointly owned and managed by NSTAR and Verizon.
- Both network architectures utilize antennas with up to 2 kilometers of range, providing an almost infinite number of antenna configurations throughout the coverage area.
- Both network architectures offer scalability to optimize coverage and capacity whereas the macro site proposed by Blue Sky Towers at 101 Red Brook Road does not and will likely leave portions of Popponesset without adequate coverage.
- Both network architectures are broadly referred to as ODAS systems and have been utilized by country club and resort communities for many years.

ODAS 2 of 11



Examples of All-In-One Base Transceiver Stations

11
3 of 11
ODAS

NEW SEABURY OUTDOOR DISTRIBUTED ANTENNA SYSTEM (ODAS) PROPOSAL

PREPARED FOR THE PENINSULA COUNCIL, INC.



ODAS
4 of 41

DISCLAIMER

- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however, we do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
- All information contained herein is strictly confidential and to be utilized only by The Peninsula Council, Inc. for the express purpose of evaluating this proposal. No information contained in this document will be released to the media or made public by any method without the express permission of the author.

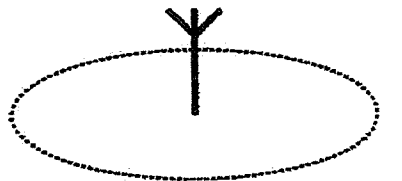
BACKGROUND & CONDITIONS

- The proposed ODAS project (Project) serves as an alternative to the proposed macro site at 101 Red Brook Road, also known as Mashpee Fire Station 2.
- The Project will fulfill the wireless coverage gap in New Seabury and surrounding areas.
- The Project will make use of existing infrastructure as much as possible and only add infrastructure which can avoid or substantially mitigate any regulatory review.
- The Project is amenable to the surrounding community and other relevant parties as a good compromise.
- The Project can be completed in a timely manner.

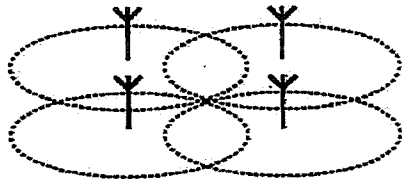
ODAS 6 of 11

ODAS SIGNAL PROPAGATION AND PROCESSING

Macro Site vs. ODAS

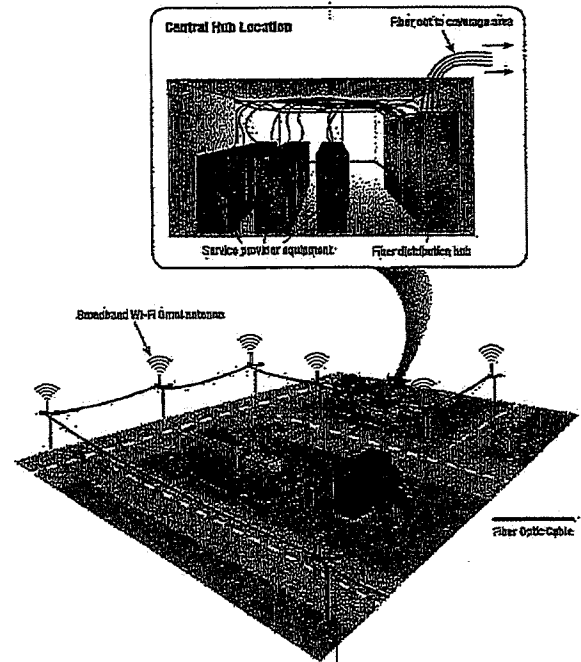


single antenna

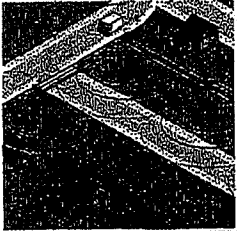


distributed antenna system

Outdoor Distributed Antenna System

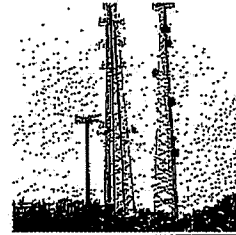


ODAS VS MACRO SITE PROPOSAL



ODAS

- Visually appealing
- Low power antennas
- Quick deployment
- Superior performance
- Scalable and flexible
- Next generation "5G" ready
- Possible light pole upgrades at no cost to residents



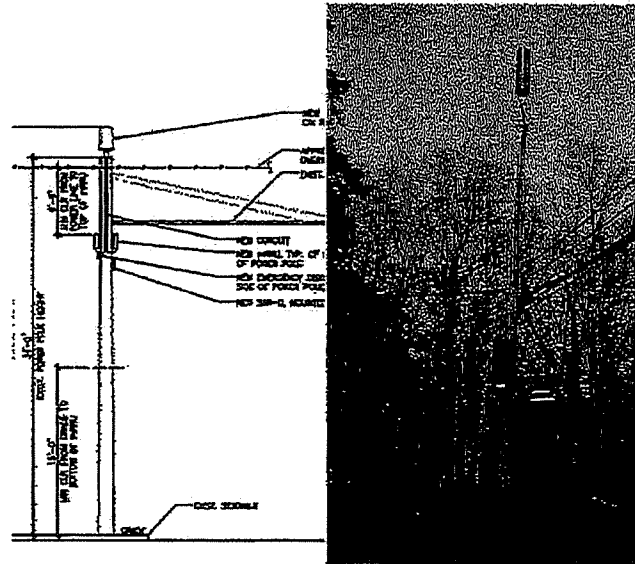
Macro Site

- Poor aesthetics/Visual pollution
- High power antennas
- Slow deployment requiring multiple approvals
- Not scalable or flexible to suit the local topography or terrain
- Sub-optimal for "5G" networks
- Limited input on project

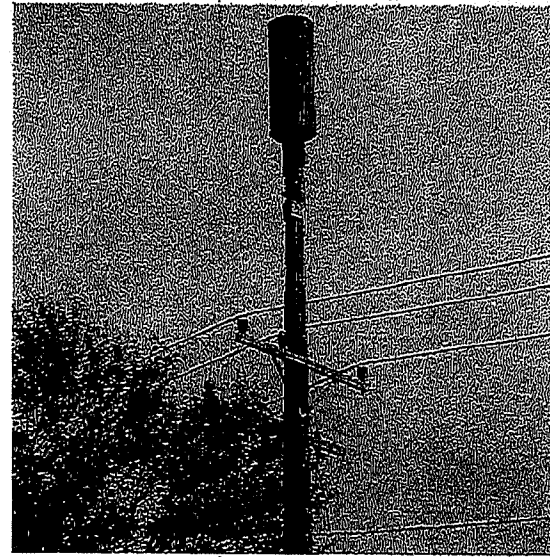
OTBAS 9 of 11

UTILITY POLE ANTENNA APPEARANCE AND CONCEALMENT

Mounted antenna on top of existing utility pole



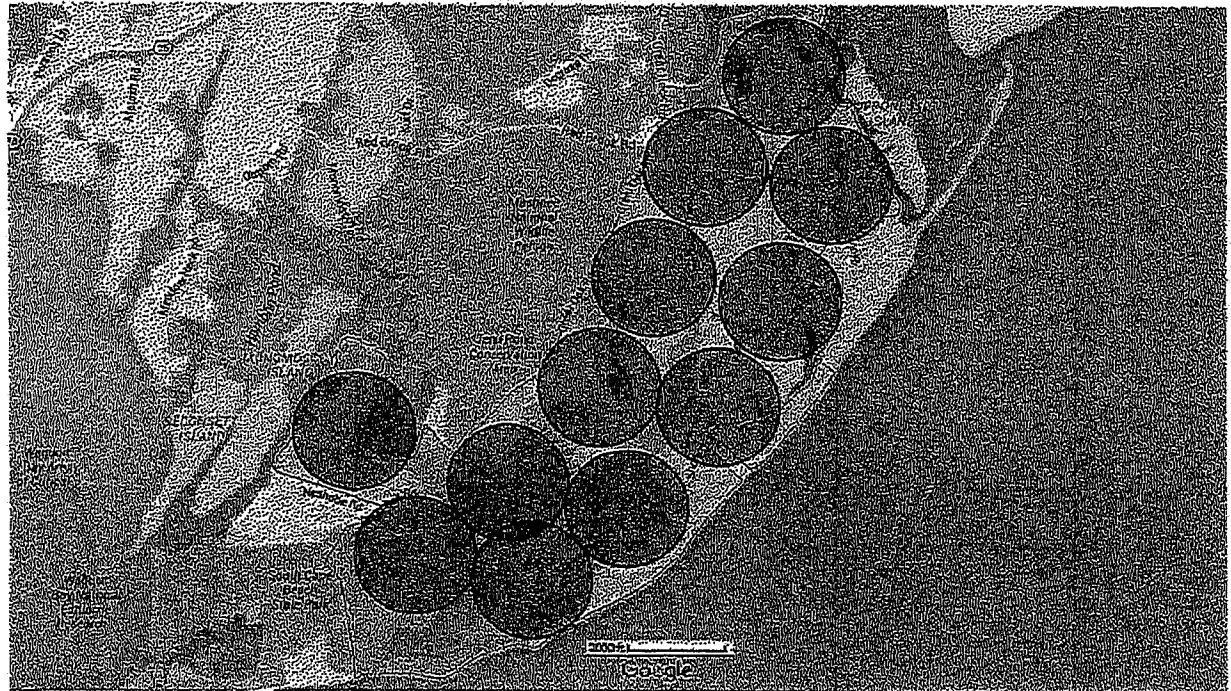
Pole mounted antenna concealment to meet ARC guidelines



ANTENNA PLACEMENT AND COVERAGE

- Approximately 12 antenna nodes should provide adequate coverage and capacity based on demographic analysis.
- Additional nodes can be added to the network outside New Seabury to meet additional coverage requirements by carrier(s).

(Shaded areas represent optimal coverage. Actual coverage would include all of New Seabury and beyond.)

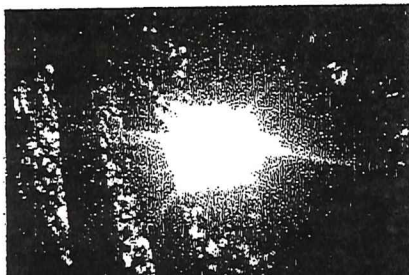


CDAS . 10 of 11

SUMMARY, TAKEAWAYS AND NEXT STEPS

- The proposed ODAS project is the best solution to the wireless coverage gap the neglected residents of New Seabury have suffered with for far too long. The ODAS project best suits the safety, prosperity and happiness of New Seabury residents and their guests.
- The Peninsula Council has the ability to recommend the ODAS project. Community residents will bear no costs related in any way to the project and possibly reduce costs on light pole replacements.
- Next steps begin with discussions on easements which will be determined by Peninsula Council rules and procedures at their convenience.

ODAS 11 of 11



"Our lives begin to end
the day we become
silent about things that
matter."

- Martin Luther King, Jr.

**Electromagnetic
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• **Who We Are (audio)**

• **Quotes from Experts**

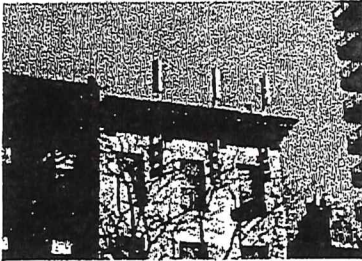
• **Media Story Leads**

• **Community Health Assessment**

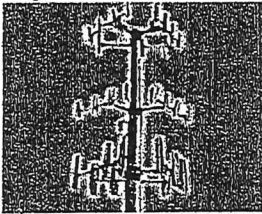
• **Contact Us**

EMF Real Estate Survey Results: "Neighborhood Cell Towers & Antennas—Do They Impact a Property's Desirability?"

03.07.2014 by emily Category [Electromagnetic Health Blog](#)



The National Institute for Science, Law and Public Policy's survey "**Neighborhood Cell Towers & Antennas—Do They Impact a Property's Desirability?**" initiated June 2, 2014, has now been completed by 1,000 respondents as of June 28, 2014. The survey, which circulated online through email and social networking sites, in both the U.S. and abroad, sought to determine if nearby cell towers and antennas, or wireless antennas placed on top of or on the side of a building, would impact a home buyer's or renter's interest in a real estate property.



The overwhelming majority of respondents (94%) reported that cell towers and antennas in a neighborhood or on a building would impact interest in a property and the price they would be willing to pay for it. And 79% said under no circumstances would they ever purchase or rent a property within a few blocks of a cell tower or antenna.

- 94% said a nearby cell tower or group of antennas would negatively impact interest in a property or the price they would be willing to pay for it.
- 94% said a cell tower or group of antennas on top of, or attached to, an apartment building would negatively impact interest in the apartment building or the price they would be willing to pay for it.
- 95% said they would opt to buy or rent a property that had zero antennas on the building over a comparable property that had several antennas on the building.

- **79% said under no circumstances would they ever purchase or rent a property within a few blocks of a cell tower or antennas.**
- **88% said that under no circumstances would they ever purchase or rent a property with a cell tower or group of antennas on top of, or attached to, the apartment building.**
- **89% said they were generally concerned about the increasing number of cell towers and antennas in their residential neighborhood.**

The National Institute for Science, Law and Public Policy (NISLAPP) was curious if respondents had previous experience with physical or cognitive effects of wireless radiation, or if their concern about neighborhood antennas was unrelated to personal experience with the radiation. **Of the 1,000 respondents, 57% had previously experienced cognitive effects from radiation emitted by a cell phone, wireless router, portable phone, utility smart meter, or neighborhood antenna or cell tower, and 43% had not experienced cognitive effects. 63% of respondents had previously experienced physical effects from these devices or neighborhood towers and antennas and 37% had not experienced physical effects.**

The majority of respondents provided contact information indicating they would like to receive the results of this survey or news related to the possible connection between neighborhood cell towers and antennas and real estate decisions.

Comments from real estate brokers who completed the NISLAPP survey:

"I am a real estate broker in NYC. I sold a townhouse that had a cell tower attached. Many potential buyers chose to avoid purchasing the property because of it. There was a long lease."

"I own several properties in Santa Fe, NM and believe me, I have taken care not to buy near cell towers. Most of these are rental properties and I think I would have a harder time renting those units... were a cell tower or antenna nearby. Though I have not noticed any negative health effects myself, I know many people are affected. And in addition, these antennas and towers are often extremely ugly—despite the attempt in our town of hiding them as chimneys or fake trees."

"We are home owners and real estate investors in Marin County and have been for the last 25 years. We own homes and apartment building here in Marin. We would not think of investing in real estate that would harm our tenants. All our properties are free of smart meters. Thank you for all of your work."

"I'm a realtor. I've never had a single complaint about cell phone antennae. Electric poles, on the other hand, are a huge problem for buyers."

Concern was expressed in the comments section by respondents about potential property valuation declines near antennas and cell towers. While the NISLAPP survey did not evaluate property price declines, a study on this subject by Sandy Bond, PhD of the New Zealand Property Institute, and Past President of the Pacific Rim Real Estate Society (PRRES), *The Impact of Cell Phone Towers on House Prices in Residential Neighborhoods*, was published in *The Appraisal Journal* of the Appraisal Institute in 2006. The Appraisal Institute is the largest global professional organization for appraisers with 91 chapters. The study indicated that **homebuyers would pay from 10%–19% less to over 20% less for a property if it were in close proximity to a cell phone base station.** The 'opinion' survey results were then confirmed by a market sales analysis. **The results of the sales analysis showed prices of properties were reduced by around 21% after a cell phone base station was built in the neighborhood.**

The Appraisal Journal study added,

"Even buyers who believe that there are no adverse health effects from cell phone base stations, knowing that other potential buyers might think the reverse, will probably seek a price discount for a property located near a cell phone base station."

James S. Turner, Esq., Chairman of the National Institute for Science, Law & Public Policy and Partner, Swankin & Turner in Washington, D.C., says,

"The recent NISLAPP survey suggests there is now a high level of awareness about potential risks from cell towers and antennas. In addition, the survey indicates respondents believe they have personally experienced cognitive (57%) or physical (63%) effects from radiofrequency radiation from towers, antennas or other radiating devices, such as cell phones, routers, smart meters and other consumer electronics. Almost 90% are concerned about the increasing number of cell towers and

antennas generally. A study of real estate sales prices would be beneficial at this time in the United States to determine what discounts homebuyers are currently placing on properties near cell towers and antennas."

Betsy Lehrfeld, Esq., an attorney and Executive Director of NISLAPP, says,

"The proliferation of this irradiating infrastructure throughout our country would never have occurred in the first place had Section 704 of the Telecommunications Act of 1996 not prohibited state and local governments from regulating the placement of wireless facilities on health or environmental grounds. The federal preemption leaves us in a situation today where Americans are clearly concerned about risks from antennas and towers, some face cognitive and physical health consequences, yet they and their families increasingly have no choice but to endure these exposures, while watching their real property valuations decline."

The National Institute for Science, Law, and Public Policy (NISLAPP) in Washington, D.C. was founded in 1978 to bridge the gap between scientific uncertainties and the need for laws protecting public health and safety. Its overriding objective is to bring practitioners of science and law together to develop intelligent policy that best serves all interested parties in a given controversy. Its focus is on the points at which these two disciplines converge.

NISLAPP contact:

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(202) 462-8800 / jim@swankin-turner.com

Emily Roberson

er79000@yahoo.com

If you can support NISLAPP's work, please donate here:



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[See Commentary by ElectromagneticHealth.org on NISLAPP EMF Real Estate Survey Results and Recommendations for Real Estate Agents and Homebuyers](#)

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Realtor Magazine

Wednesday, September 05, 2018

Cell Towers, Antennas Problematic for Buyers

July 25, 2014

An overwhelming 94 percent of home buyers and renters surveyed by the National Institute for Science, Law & Public Policy (NISLAPP) say they are less interested and would pay less for a property located near a cell tower or antenna.

What's more, of the 1,000 survey respondents, 79 percent said that under no circumstances would they ever purchase or rent a property within a few blocks of a cell tower or antennas, and almost 90 percent said they were concerned about the increasing number of cell towers and antennas in their residential neighborhood.

The survey, "Neighborhood Cell Towers & Antennas—Do They Impact a Property's Desirability?" also found that properties where a cell tower or group of antennas are placed on top of or attached to a building (condominium high-rise, for instance) is problematic for buyers.

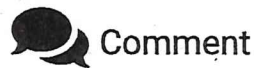
"A study of real estate sales prices would be beneficial at this time in the United States to determine what discounts home buyers are currently placing on properties near cell towers and antennas," says Jim Turner, chair of NISLAPP.

The NISLAPP survey echoes the findings of a study by Sandy Bond of the New Zealand Property Institute and past president of the Pacific Rim Real Estate Society (PRRES). "The Impact of Cell Phone Towers on House Prices in Residential Neighborhoods," which was published in The Appraisal Journal in 2006, found that buyers would pay as much as 20 percent less for a property near a cell tower or antenna.

Source: "Neighborhood Cell Towers & Antennas—Do They Impact a Property's Desirability?" National Institute for Science, Law & Public Policy (June 2014)

Trouble Spots for Buyers:

- Home Owners Object to Cell Tower Installations
- Field Guide to Cell Phone Towers
- 6 Ways a Home May Turn Off Buyers
- 6 Ways to Turn Off Buyers at Open Houses



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