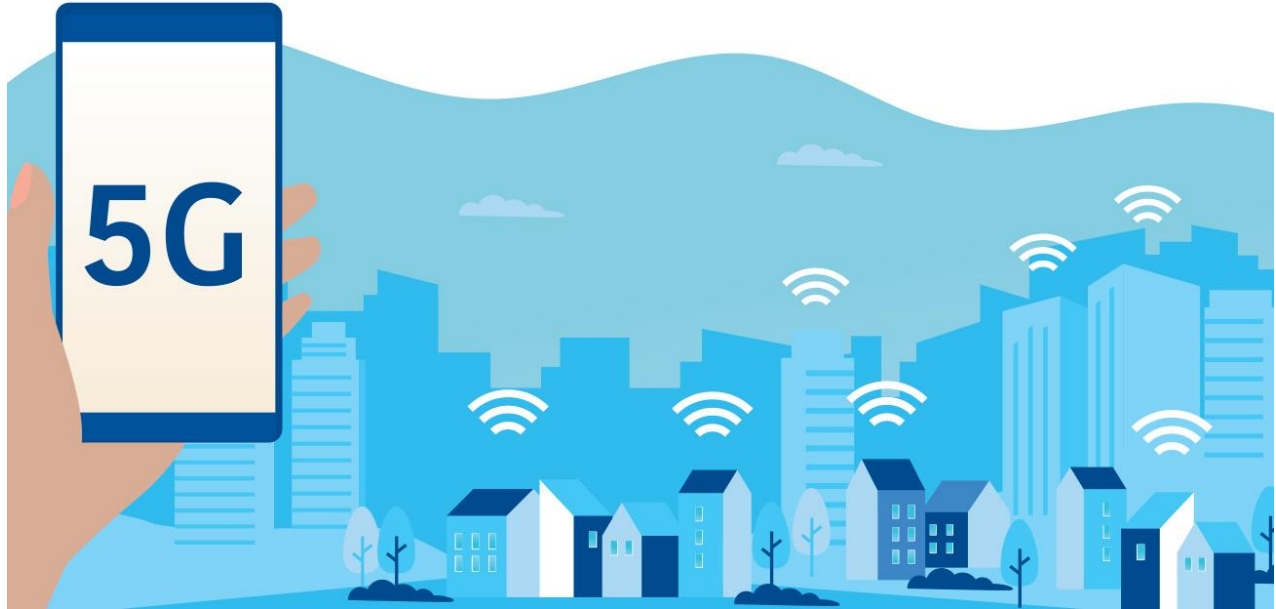


Thursday, May 20, 2021



© KY - AdobeStock

5G Network Availability Becomes Major Selling Point for Homes

May 14, 2021

Super-fast 5G connection speeds could become a future selling point for homes. Eighty-seven percent of consumers say that a home with access to fifth-generation cellular internet speeds and networks makes the property more valuable, according to a new survey of 1,000 U.S. adults commissioned by Verizon. What's more, 62% of real estate agents believe that the next year or two will bring more opportunities to advertise home access to a 5G network.

5G is said to be up to 100 times faster than current 4G networks and promises to remove latency issues—that is, the delay in response time when transferring data.

Fast cell service and home internet has become a greater priority for home buyers to stay connected socially and professionally during the coronavirus pandemic. Nine in 10 home buyers say fast, reliable cell service and home internet is a must-have for their new home, prioritizing it higher than good schools (64%), commute time (66%), modern appliances (86%), and nearby attractions and amenities (85%), according to the survey.

Why 5G Matters to Real Estate

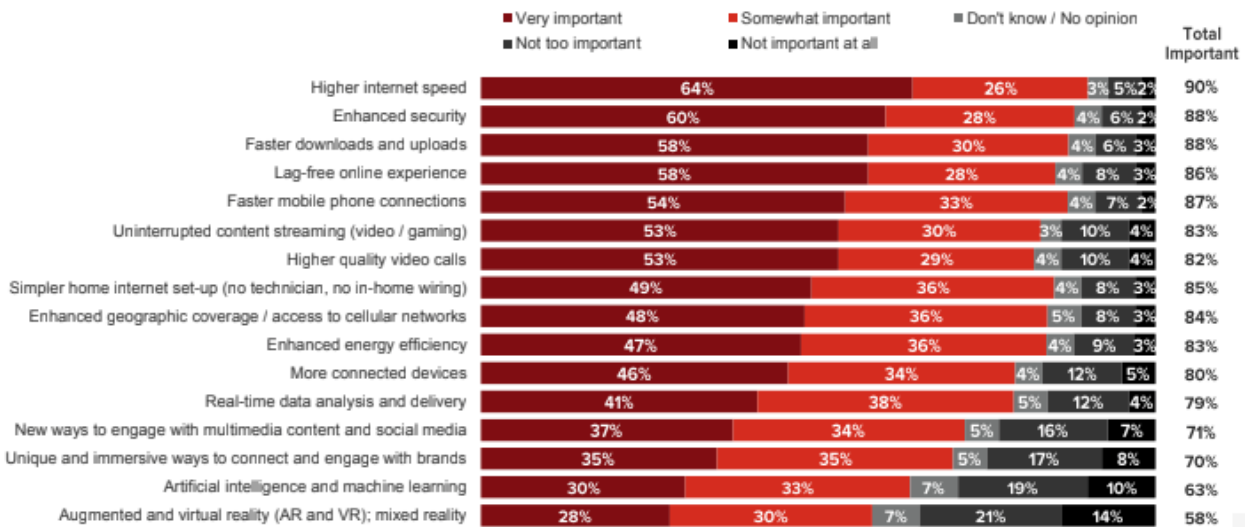
Sixty-nine percent of real estate professionals say their clients have sought information about access to broadband for homes they're considering more frequently over the past year than they did prior to the pandemic. The majority of agents also report clients inquiring more on information about the home's cellular service connections.

5G & CONNECTIVITY NEEDS: HOME BUYERS



Prospective home buyers view higher internet speed, enhanced security, faster downloads and uploads, faster mobile phone connections, and a lag-free online experience among the most important potential impacts of 5G.

Thinking about the potential impacts of 5G, how important are the following to you?



Source: "Homebuyers' 5G & Connectivity Needs," Verizon/Morning Consult (May 2021)



Comment

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May 19, 2021

Community leaders share strategies for returning vacant, abandoned, and deteriorated properties to productive use.

Study: Discrimination Limits LGBTQ in Homeownership

May 19, 2021

The LGBTQ community is estimated to have \$1 trillion in buying power in the housing market. What's holding them back?

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May 19, 2021

They may be the most wired for remote work, but some tech giants are eager to get workers back into the office.

New-Home Construction Slows as Costs Increase

May 19, 2021

NAR Chief Economist Lawrence Yun says the data is “discouraging at first glance” but sees a building comeback as prices moderate.

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May 19, 2021

Knowing they have the upper hand in transactions right now, sellers have big expectations at resale.

The Magazine



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Health and Safety Background

Health and safety organizations world-wide have studied potential health effects of RF emissions for decades, and studies continue.



RF emissions exposure at ground level is generally well below Federal Communication Commission standards.

The Federal Communications Commission (FCC) guidelines for operating wireless networks are based on the recommendations of federal health and safety agencies including:

- The Environmental Protection Agency (EPA)
- The Food and Drug Administration (FDA)
- The National Institute for Occupational Safety and Health (NIOSH)
- The Occupational Safety and Health Administration (OSHA)
- The Institute of Electrical and Electronics Engineers (IEEE)
- The National Council on Radiation Protection and Measurements (NCRP)

Wireless technology, equipment and network operations are highly regulated.

More information can be found through these organizations:

Federal Communications Commission Radio Frequency Safety Program:

http://wireless.fcc.gov/siting/FCC_LSGAC_RF_Guide.pdf

<http://www.fcc.gov/oet/rfsafety/>

World Health Organization:

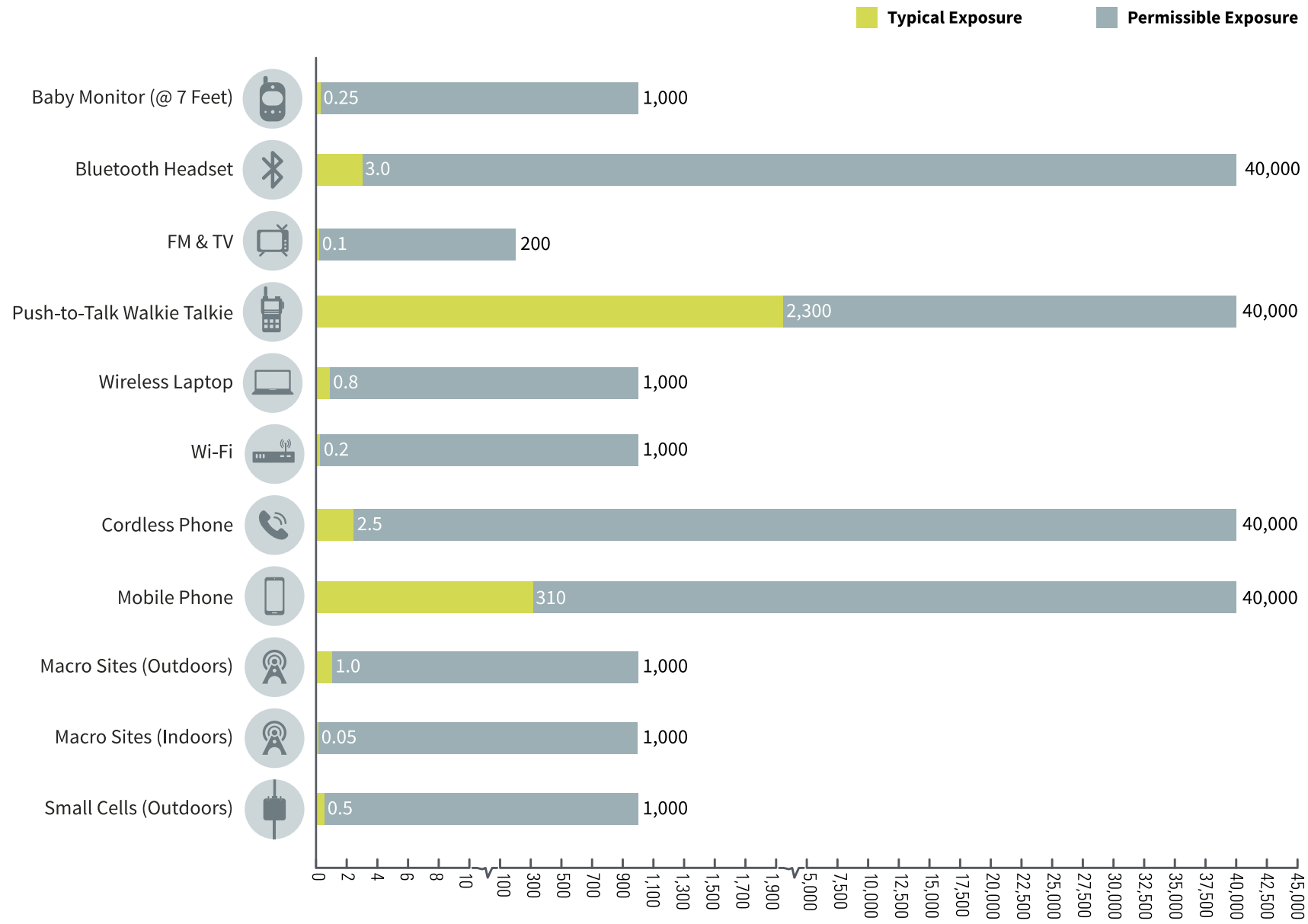
<http://www.who.int/peh-emf/publications/facts/fs304/en/>

American Cancer Society

<http://www.cancer.org/cancer/cancercauses/othercarcinogens/athome/cellular-phone-towers>

Common Radiofrequency Exposures ($\mu\text{W}/\text{cm}^2$)

($\mu\text{W}/\text{cm}^2$) = microwatts per centimeter squared



A maximum exposure is generally taken to be a worst case (whole body) exposure value from a source whereas a typical exposure is a more realistic exposure one might expect to receive from a given source. The maximum exposure would usually exist only at a specified distance from the source whereas the typical exposure might occur at a wide range of locations and represent a more realistic exposure from a given source.

Comparing the Gs

What's the difference between 5G and the other Gs?

1G

Voice

We first talk without wires - on the move, with analog technology.

2G

SMS

SMS (text) messaging debuts bringing us a new way to chat, creating a new language to chat with.

3G

Data & Apps

We begin sharing snapshots of our lives by sending images thanks to higher data transfers.

4G

Video & Speed

Video calls and new businesses are possible with wireless internet on our smart devices.

5G

Transformation

With 5G, the possibilities are limitless. The low latency, high bandwidth combination will enable advancements in technology such as augmented and virtual reality, autonomous cars and connected cities.

5G gives us massive amounts of data transfer (due to the bandwidth of the spectrum) with very low latency (delay or lag time, in layman's terms).

From wireless home internet to AR/VR to mobile gaming and more, 5G will change how we live, learn, work and play.

Human Exposure to Radio Frequency Fields: Guidelines for Cellular Antenna Sites

Primary antennas for transmitting wireless telephone service, including cellular and Personal Communications Service (PCS), are usually located outdoors on towers, water tanks and other elevated structures like rooftops and sides of buildings. The combination of antenna towers and associated electronic equipment is referred to as a “cellular or PCS cell site” or “base station.” Cellular or PCS cell site towers are typically 50-200 feet high. Antennas are usually arranged in groups of three, with one antenna in each group used to transmit signals to mobile units, and the other two antennas used to receive signals from mobile units.

At a cell site, the total radio frequency (RF) power that can be transmitted from each transmitting antenna depends on the number of radio channels (transmitters) that have been authorized by the Federal Communications Commission (FCC) and the power of each transmitter. Although the FCC permits an effective radiated power (ERP) of up to 500 watts per channel (depending on the tower height), the majority of cellular or PCS cell sites in urban and suburban areas operate at an ERP of 100 watts per channel or less.

An ERP of 100 watts corresponds to an actual radiated power of 5-10 watts, depending on the type of antenna used. In urban areas, cell sites commonly emit an ERP of 10 watts per channel or less. For PCS cell sites, even lower ERPs are typical. As with all forms of electromagnetic energy, the power density from a cellular or PCS transmitter rapidly decreases as distance from the antenna increases.

Consequently, normal ground-level exposure is much less than the exposure that might be encountered if one were very close to the antenna and in its main transmitted beam. Measurements made near typical cellular and PCS cell sites have shown that ground-level power densities are well below the exposure limits recommended by RF/microwave safety standards used by the FCC.

Guidelines

In 1996, the FCC adopted updated guidelines for evaluating human exposure to RF fields from fixed transmitting antennas such as those used for cellular and PCS cell sites. The FCC’s guidelines are identical to those recommended by the National Council on Radiation Protection and Measurements (NCRP), a non-profit corporation chartered by Congress to develop information and recommendations concerning radiation protection. The FCC’s guidelines also resemble the 1992 guidelines recommended by the Institute of Electrical and Electronics Engineers (IEEE), a non-profit technical and professional engineering society, and endorsed by the American National Standards Institute (ANSI), a nonprofit, privately-funded membership organization that coordinates development of voluntary national standards in the United States.

In the case of cellular and PCS cell site transmitters, the FCC’s RF exposure guidelines recommend a maximum permissible exposure level to the general public of approximately 580 microwatts per square centimeter. This limit is many times greater than RF levels typically found near the base of cellular or PCS cell site towers or in the vicinity of other, lower-powered cell site transmitters. Calculations corresponding to a “worst-case” situation (all transmitters operating simultaneously and continuously at

the maximum licensed power) show that, in order to be exposed to RF levels near the FCC's guidelines, an individual would essentially have to remain in the main transmitting beam and within a few feet of the antenna for several minutes or longer. Thus, the possibility that a member of the general public could be exposed to RF levels in excess of the FCC guidelines is extremely remote.

When cellular and PCS antennas are mounted on rooftops, RF emissions could exceed higher than desirable guideline levels on the rooftop itself, even though rooftop antennas usually operate at lower power levels than free-standing power antennas. Such levels might become an issue for maintenance or other personnel working on the rooftop. Exposures exceeding the guidelines levels, however, are only likely to be encountered very close to, and directly in front of, the antennas. In such cases, precautions such as time limits can avoid exposure in excess of the guidelines. Individuals living or working within the building are not at risk.

Consumer Help Center

For more information on consumer issues, visit the FCC's Consumer Help Center at www.fcc.gov/consumers.

Alternate formats

To request this article in an accessible format - braille, large print, Word or text document or audio - write or call us at the address or phone number at the bottom of the page, or send an email to fcc504@fcc.gov.

Last Reviewed 10/31/16



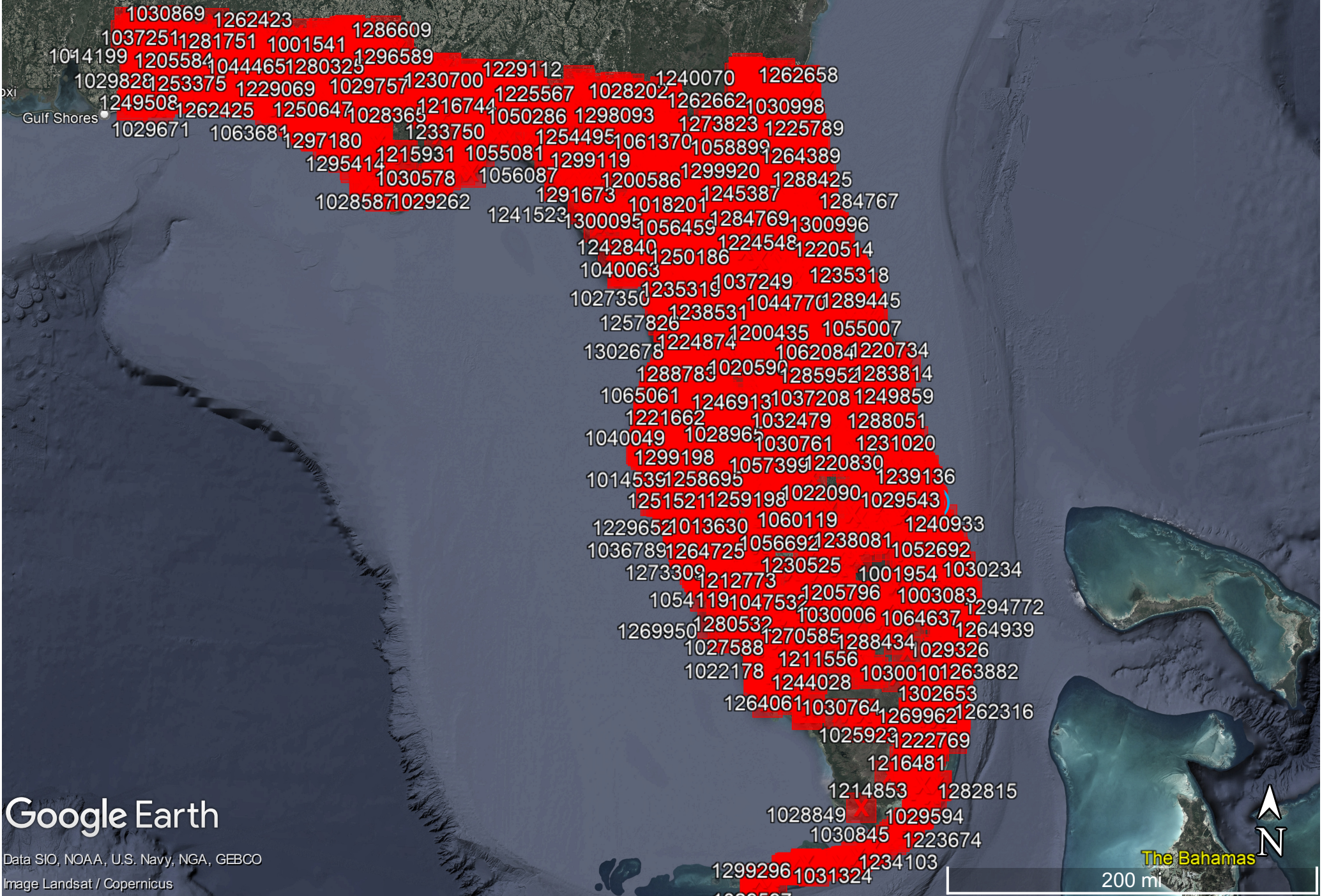


Florida

ASR Layer showing all sites from the FAA database.

Legend

Savannah



Google Earth

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus

200 mi


The Bahamas

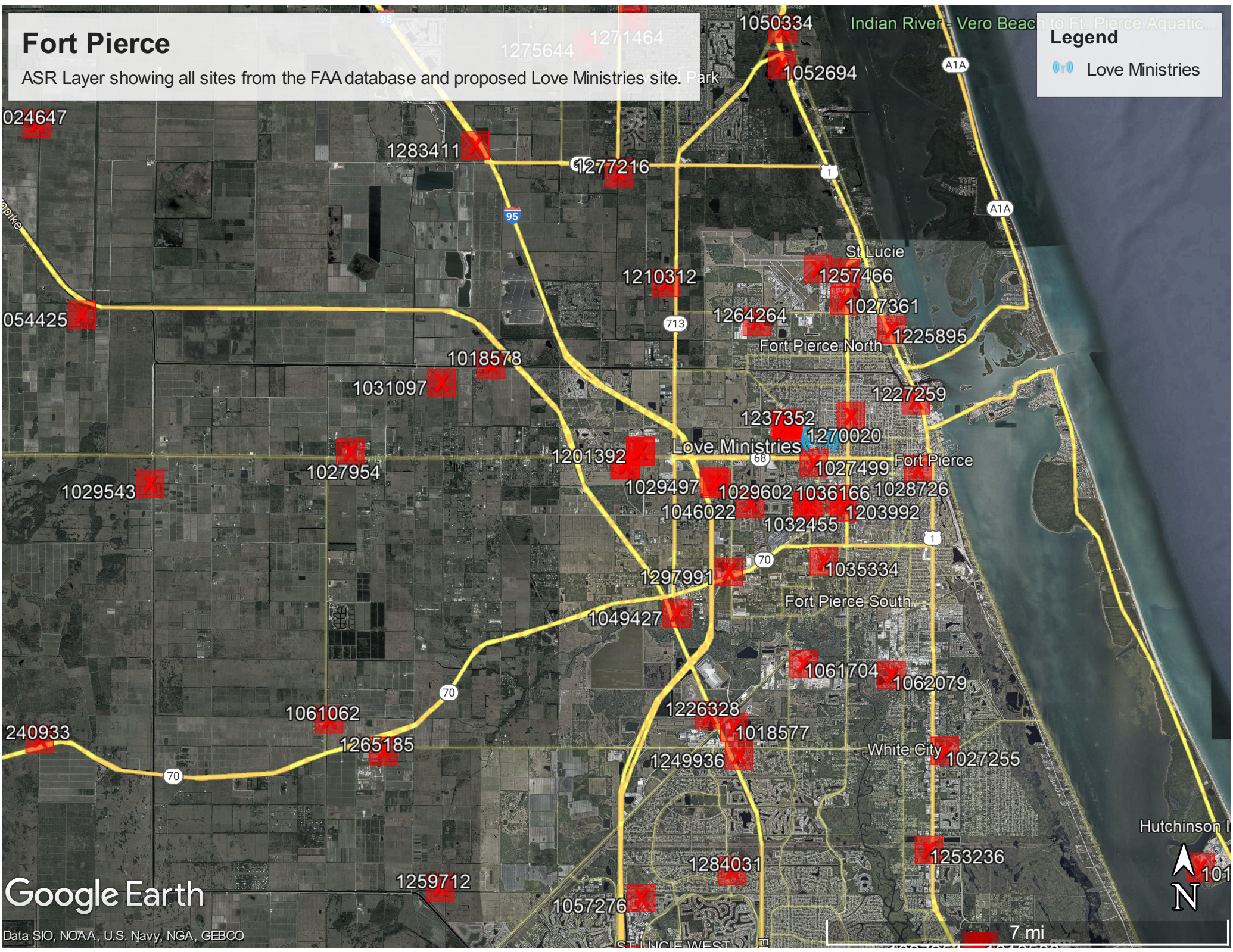


Fort Pierce

ASR Layer showing all sites from the FAA database and proposed Love Ministries site.

Legend

-  Love Ministries



Google Earth

Data SIO, NOAA, U.S. Navy, NGA, GEBCO



Mail Processing Center
 Federal Aviation Administration
 Southwest Regional Office
 Obstruction Evaluation Group
 10101 Hillwood Parkway
 Fort Worth, TX 76177

Aeronautical Study No.
 2022-ASO-32720-OE

Issued Date: 05/09/2023

Kathie Post
 Tower Com (KP)
 5611 NC Hwy 55
 Suite 201
 Durham, NC 27713

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower Love Ministries
 Location: Fort Pierce, FL
 Latitude: 27-27-05.97N NAD 83
 Longitude: 80-21-27.92W
 Heights: 22 feet site elevation (SE)
 199 feet above ground level (AGL)
 221 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part 1)
- Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 11/09/2024 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (404) 305-6462, or mike.blaich@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-ASO-32720-OE.

Signature Control No: 548522811-584660022

(DNE)

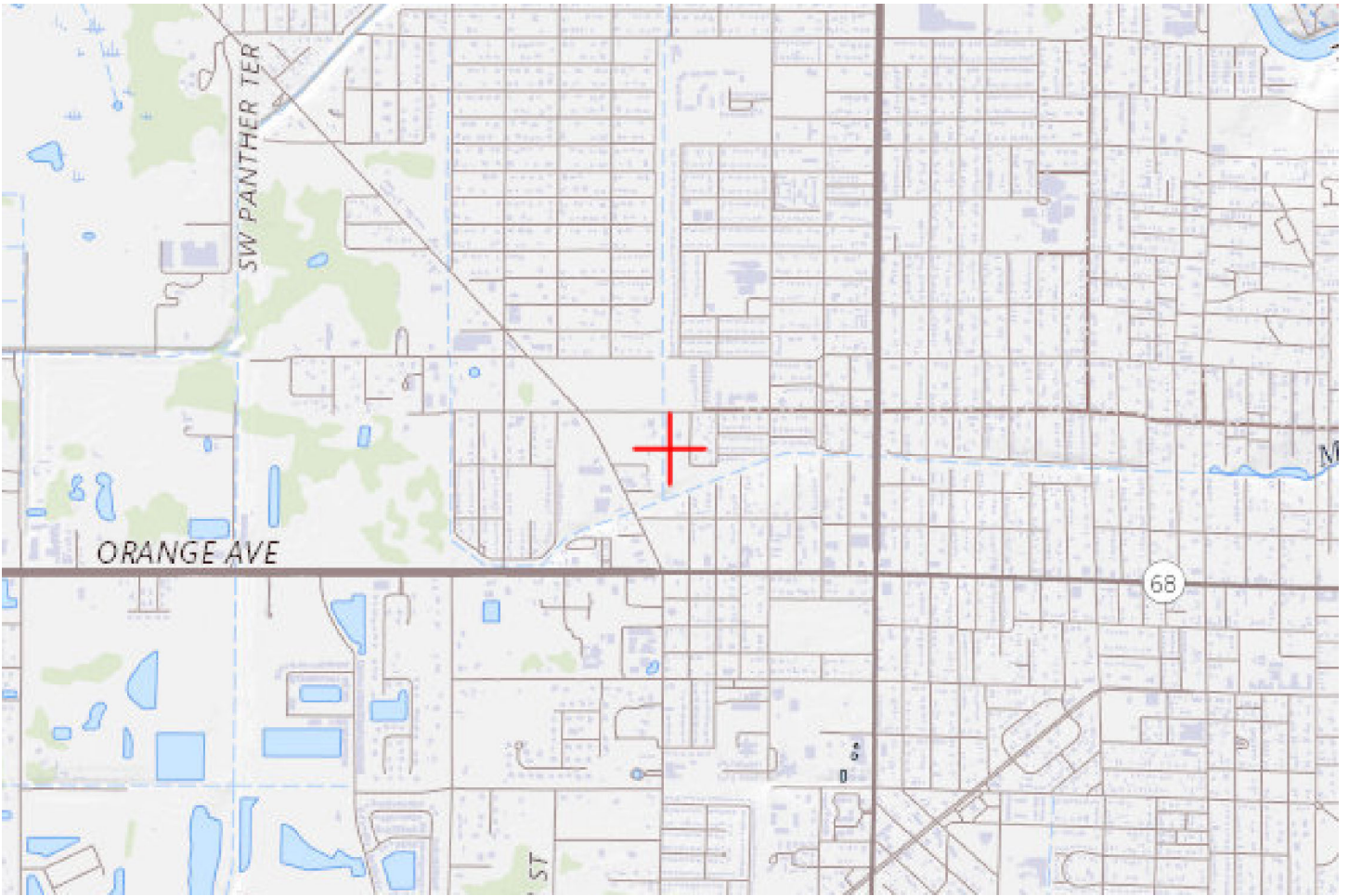
Michael Blaich
Specialist

Attachment(s)
Frequency Data
Map(s)

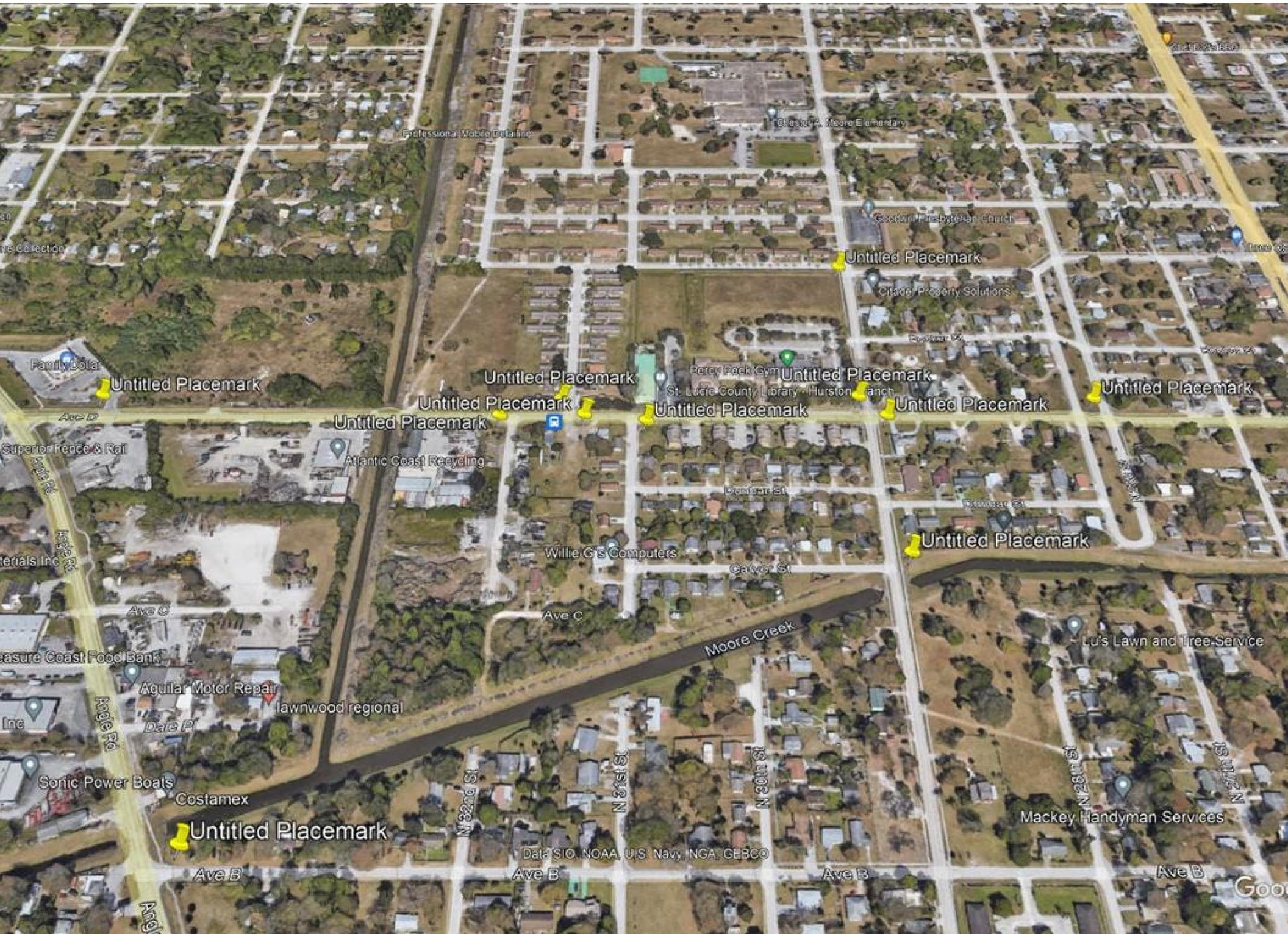
cc: FCC

Frequency Data for ASN 2022-ASO-32720-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W









COMMERCIAL DISTRICT
ZONING REGULATIONS
SECTION 16.02
COMMERCIAL DISTRICT
ZONING REGULATIONS
SECTION 16.02





FOR SALE
[Photo of a person]

[Yellow sign]

COMMUNITY WELCOME
[Illegible text]

dmartohuelaw@outlook.com

From: Deborah Martohue
Sent: Tuesday, June 13, 2023 5:29 PM
To: Linda Cox
Cc: Tanya Earley
Subject: FW: Community Meeting Information & Follow up -Love Ministries CU22-0700030
Attachments: 7-The_Gs_(DEC21).pdf; 2-5G Network Availability Becomes Major Selling Point for Homes _ Realtor Magazine (MAY21).pdf; 12-FCC_Consumer-Guide (10.31.16).pdf; 3-Health & Safety Background (DEC21).pptx; 6-CTIA RF Bar Graph (2020).pdf; FLORIDA ASR Layer.kmz; Image.jpeg

Good afternoon Linda:

Please include the email below and its attachments in the PH record for the captioned matter to keep the Mayor & Commissioners apprised of the information shared at the meeting as well as meeting follow up with attendees. The referenced photo simulations are already part of the Application and public record in this case.

Please confirm receipt.

Thank you

Best regards,

Deborah L. Martohue, Esq. AICP
Martohue Land Use Law PA
Office: 727.256.1211
Mobile: 727.460.8431
Email: dmartohuelaw@outlook.com

Please consider the environment before you print this email. Thank you.

From: George Davis <gdavis@towercomenterprises.com>
Sent: Monday, June 12, 2023 4:12 PM
To: Deborah Martohue <dmartohuelaw@outlook.com>
Subject: FW: Community Meeting Information

From: George Davis
Sent: Thursday, June 8, 2023 8:04 PM
To: JT@sprint@comcast.net
Subject: Community Meeting Information

Good evening. It was a pleasure meeting you and your lovely wife last night at the community meeting. I sincerely appreciated your attendance and sharing your concerns. Hopefully, the information we provided and questions we answered was helpful for those who showed up and participated.

As requested, please find the attached information that was shared last night. I will send the photo simulations, etc under a second email. I'm also including a picture of a recent tower we built in Fuquay-Varina, NC that looks just like this one would look when finished (195' monopole w/Verizon 5G). Also attached is a Google Earth .kml file that will mark the locations of registered towers in the state of Florida. I'm sure the sheer volume of towers will surprise you. As you navigate around you will see that towers like these exist and have been built in communities of all types in Florida. The same can be said for every other state in our country because they only provide coverage for the immediate areas in which they are located. Keep in mind this is not all towers/cell sites and some of these are radio/television towers. It also doesn't account for rooftop and other installations, small cells, DAS systems and towers under 200' that are not required to be registered with the FAA/FCC, though many are. That said, the actual number of transmitting sites that comprise the 5G network is far greater than what you can see here.

While there were several points about the benefits of this project that were made last night, I wanted to stress the one about public safety. The overwhelming number of E911 calls comes from wireless phones. This undeniably saves lives by improving response times and accuracy of where the calls are placed from to get help to where it is needed faster. In fact, nationally the number is 70% or higher in some communities. Couple that with the fact these networks are built for the highest level of survivability and resilience with battery and backup generator power cell networks are the last to fail and the first to be back online after hurricanes and other terrible events. We live in unfortunate and scary times for our youth and while some in the community might see the tower and the service from it as a specter of concern about the unknown, we do know that reliable wireless services save lives like during the recent tragedies in Nashville and Parkland, etc as first responders and 911 operators work to pinpoint where people are even in buildings.

Additionally, these towers improve the access to educational and commercial opportunities in your community. Like other utility infrastructure your part of Fort Pierce deserves to be on par with other communities. This installation will help make sure that your area does not fall behind other communities in terms of access to the latest technologies and fastest speeds offered by Verizon and others. This is often referred to as the "digital divide". If Verizon had not prioritized addressing this coverage issue in Lincoln Park, we'd likely be having a different conversation down the road about why the service in the community is worse than other parts of Fort Pierce. As I said last night, our project can't fix all the concerns in the community, but access to fast and reliable wireless service will help support educational opportunities, business investment and improve public safety access there.

Please reply to this email to confirm your receipt. If you have any questions regarding this information or our proposed project, I would be happy to speak anytime, please feel free to contact me directly.

Thanks,

George



George W. Davis | SVP & Managing Partner

TOWERCOM
ON AIR. ON TIME.

5611 NC Hwy 55, Suite 201 | Durham, NC 27713

Corporate: 904.880.8887

Direct: 919.666.2903 | Cell: 504.400.5040

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Creating the networks that move the world forward.



The 2021 acquisition of TracFone Wireless Inc. positions Verizon as the leading pre-paid, value, and premium wireless carrier by expanding Verizon's portfolio, bringing enhanced access to its industry-leading wireless network and comprehensive suite of mobility products and services. Other TracFone brands, including Straight Talk Wireless and Total Wireless, among others, along with Verizon's Visible brand offer additional value plans for every family and budget.

Affordable Mobile Plans using Verizon's Nationwide Network

	Connection	Single Line Starting Price*	With ACP Credit*	With Lifeline Credit*	With ACP & Lifeline Credit*
SafeLink	4G LTE & 5G Nationwide**	Pre-paid service	Free unlimited talk / text, 10 GB data / month	Free 350 voice minutes, unlimited texts, 4.5 GB data / month	Free unlimited talk/text, 25 GB data / month, 5 GB hotspot data
Verizon	5G Nationwide**	\$35 / month per line with auto pay & paperless billing, unlimited data	\$5 / month per line with auto pay & paperless billing	\$25.75 / month per line with auto pay & paperless billing	Free with auto pay & paperless billing

Affordable Home Internet

Verizon Home Internet plans are now even more affordable for qualifying households with Fios Forward, 5G Home Internet and LTE Home Internet.

	Speed	With ACP Credit*	General Rate*
Fios Forward	300 Mbps; no data cap	Free including router at no charge	\$25 / month with wireless bundle†, auto pay & paperless billing
5G Home Internet	5G Ultra Wideband; no data cap	Free with wireless bundle†, auto pay & paperless billing	\$25 / month with wireless bundle†, auto pay & paperless billing
LTE Home Internet	4G LTE; no data cap	Free with wireless bundle†, auto pay & paperless billing	\$25 / month with wireless bundle†, auto pay & paperless billing

Sign up for ACP with Verizon at <https://www.verizon.com/home/promo/affordable-connectivity-program/>



*Does not include taxes, fees or router charges. The Affordable Connectivity Program (ACP) is limited to one monthly service discount per household.

**With 5G enabled phone.

† With 5G Play More, Do More or Get More plan

Prices as of 6.15.2022



The Affordable Connectivity Program

The Affordable Connectivity Program (ACP) was created by Congress and implemented by the Federal Communications Commission (FCC) to assist eligible households to pay for internet services. The ACP will provide assistance to customers needing to connect to jobs, healthcare, and virtual classrooms.

Ways in which households can qualify for ACP:

- Household income
- Participation in certain government assistance programs
- Participation in Lifeline

Income

You are eligible for the ACP if your income is 200% or less than the Federal Poverty Guidelines. The guideline is based on your household size and state.

Participation in certain government assistance programs

You are eligible for the ACP if you (or someone in your household) participate in one of these programs:

- Supplemental Nutrition Assistance Program (SNAP), formerly known as Food Stamps
- Medicaid
- Special Supplemental Nutrition Program for Women, Infants, and Children (WIC)
- Supplemental Security Income (SSI)
- Federal Public Housing Assistance (FPHA)
- Veterans Pension and Survivors Benefit
- Free and Reduced-Price School Lunch Program or School Breakfast Program, including at U.S. Department of Agriculture (USDA) Community Eligibility Provision schools
- Received a Federal Pell Grant in the current award year

Qualify Through Your Child or Dependent

Any member of your household can make your household eligible if they participate in one of the programs above. For example, if your child or dependent participates in the Free and Reduced-Price School Lunch Program or is enrolled in a USDA Community Eligibility Provision school, your household qualifies for the ACP benefit.

To learn more or enroll in ACP, visit www.affordableconnectivity.gov

