

From: [Camp, Krystal](#)
To: [PLANCOM - Planning Commission](#)
Cc: [Jones, Jessica](#); [Hartman, Suzanne](#)
Subject: Late Correspondence - Item 9.1 - January 11, 2024
Date: Tuesday, January 9, 2024 12:03:00 PM
Attachments: [UPDATED - Petition of Opposition as of January 9, 2024.pdf](#)
[UPDATED - Public Comments as of January 9, 2024.pdf](#)
[UPDATED - Attachment 10 - RF Justification as of January 9, 2024.pdf](#)
[UPDATED - Oku Solutions - Engineer Response as of January 9, 2024.pdf](#)

- INFORMATION ONLY. PLEASE DO NOT REPLY TO ALL –

Dear Chair Weeks and Members of the Planning Commission,

Please see attached late correspondence, including an added attachment, an updated attachment, and public comments for item 9.1 – Verizon Wireless Telecommunication Tower. These will also be added to the agenda.

Thank you,

Krystal Camp | Administrative Secretary

Planning & Economic Development

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1/7/2024

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To: Suzanne Hartman, City Planner, City of Santa Rosa
Subject: FCC compliance of Verizon Wireless Communications Facility, FILE NO. PRJ23-005 ("Yolanda"
- 244 Colgan Avenue

Dear Ms. Hartman:

In the matter of questions about the compliance of Verizon Wireless' application for a Wireless Communications Facility at 244 Colgan Avenue with Federal Communications Commission's NEIR electromagnetic safety guidelines, we respectfully submit a memo and third-party engineering analysis.

Oku Solutions provides telecommunication engineering consulting services to governments, non-profits, and industry clients. I am an electrical engineer with a B.Sc. from the University of California, with a career focus on wireless systems, communications theory and practice, and radio-frequency theory and practice. I have testified about electromagnetic safety at dozens, if not hundreds, of hearings on wireless communications facilities. I am a:

- Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), an organization dedicated to advancing innovation and technological excellence for the benefit of humanity, creating standards, and is the world's largest technical professional society.
- Chair of the Deployment Working Group of the IEEE's Future Networks Technical Community.
- Member of the IEEE's International Committee on Electromagnetic Safety, which hosts the TC95 working group that produces the C95 family of standards, from which regulatory agencies (including the Federal Communications Commission) derive their electromagnetic safety guidance.
- Member of the IEEE Committee on Man and Radiation.
- Life Member of the IEEE Microwave Theory and Techniques Society.

Based on my background and stated qualifications, I ask that you consider me an expert witness on the topic of electromagnetic field (EMF) safety standards, and on the compliance of the proposed WCF with the FCC's established safety guidelines.

The FCC derives most of their electromagnetic safety guidelines from the research and findings contained in the IEEE's C95.1 standard. The most recent update to the C95.1 occurred in 2019, and the FCC subsequently completed a multi-year proceeding finding that the existing safety guidelines continue to provide broad protection against injury from excessive electromagnetic energy. (FCC 19-126)

One of the ways the FCC's guidelines create protection is by mandating a 98% safety margin between the highest levels of RF exposure and the levels at which medical science can accurately measure an effect on the human body. Thus, even if an RF source is imparting energy at 100% of the FCC's safety guidance, that level is still below the effect level.

I have reviewed the *Radio Frequency Exposure - FCC Compliance Assessment* prepared by Jassmine Aldrich of Waterford Consultants, LLC and dated May 24th 2023. (This is the RFE, sometimes called an EME, report linked from the staff report packet.)

Waterford recommended a 3 dB (50%) reduction in RF levels to ensure that anyone working on the roof (at the 30-foot level) of the building directly north of the proposed WCF would not encounter RF levels above the FCC's safety guidelines for public exposure. Waterford's report finds, with the recommended reduction in RF levels, that all publicly-accessible areas (elevated or ground-level) fall within the FCC's safety guidelines. I reviewed the RFE report and compared it against other data including the applicant's construction drawings, satellite and ground-level imagery of the area and surroundings, and I concur with Waterford's findings. Nothing in the RFE report predicts RF exposure above the FCC's safety guidelines for public or "uncontrolled" areas on nearby rooftops or at ground level. All predicted levels are at, or below, the FCC's maximum levels for public exposure.

It is important to point out that all RFE reports presume perfect operating conditions and ideal materials to produce a worst-case analysis. When measured using proper test instruments calibrated to NIST-traceable standards, RF levels from operating WCFs in the real world are always below RFE/EME predictions.

I will attend the Planning/Zoning hearing on Jan 11th 2024, and will be available to answer any questions from city staff and commissioners.

Sincerely,



David Witkowski
CEO & President
Oku Solutions LLC

Re: Verizon Wireless Telecommunications Facility; File# PRJ23-009

Dear Suzanne Hartman, Santa Rosa City Planner, and Planning Commissioners,

On behalf of the fine folks who live and work in the vicinity of the proposed 69 ft, tall telecommunications tower at 244 Colgan Ave., I'm writing to say I pray it will not get permitted. Why? Well, I've been a victim of a "small cell" facility for the past five and a half years and counting, consisting of three powerful antennas just 42 feet from my home. The Santa Rosa City Council and planners of 2017 were hoodwinked by Verizon who stated there are no known health issues from cell towers.

I continue to suffer greatly from radiofrequency radiation (RFR) with meter readings of 15,000 uW/m² to 35,000 uW/m² in my home and 25,000 to over 190,000 uW/m² in my yards. I am a prisoner in my home and can only use a third of my living space. I suffer from severe headaches, debilitating exhaustion, nasty body pain, heart palpitations, blood pressure problems, brain fog, nausea, and more. No one should have to live in this type of environment. I have rights to live in my home free of this kind of horrible pollution as do the people who live on Colgan Ave. I fought hard against the cell tower as soon as I got the notice stating that it was going up on my corner, but lost. Why? Because telecommunications companies do not care about people's lives.

In 2022, I was diagnosed with EHS (Electromagnetic Hypersensitivity) from which I will never recover even if the small cell facility is removed. Shopping and doctors appointments take a huge toll on me, and I feel every cell tower and small cell as we pass by. I don't drive so I ask my drivers to keep their cell phones turned off. I do not own a cell phone or anything that emits RFR.

I don't want these folks to suffer like I do. I'm in contact with corporate headquarters of Verizon/Nexus. They are of no help. They deny that health problems are caused by RFR from their facilities. They've tried to keep this issue under wraps.

I am physical evidence of the extreme harm that this facility has caused me and I don't want this to happen to anyone else. I hope you will reconsider the proposal for Colgan Avenue.

Thank you for your time in this very serious matter.

Sincerely,
Mary Dahl
5110 Monte Verde Drive, Santa Rosa

To: Santa Rosa Planning Commission

Suzanne Hartman, City Planner

Re: Proposed Faux Tree Telecommunications Cell Tower: File # PRJ23-009

244 Colgan Ave., Santa Rosa, CA

Dear Ms. Hartman and Planning Commission Members,

I'm writing to comment on the application for the installation of a faux pine tree/cell tower at 244 Colgan Ave. and request that you deny this application. I understand that any denial of an application must be based on "substantial evidence." The goal of this letter is to provide substantial evidence for denial consideration.

I have thoroughly read the documents and attachments in this permit application and will be commenting on a number of these elements. I will also be asking some specific questions regarding this application.

The Staff Report, Light Industry zoning and overarching goals:

The following is included in the required findings under the Analysis/General Plan heading:

1) "The general plan use designation for this site is **Light Industry**, which is intended for light industrial, warehousing and heavy commercial uses. Uses appropriate to this land use category include auto repair, bulk or warehoused goods, general warehousing, manufacturing/ assembly with minor nuisances, home improvement retail, landscape materials retail, freight or bus terminals, research oriented industrial....

"While there are no goals or policies that speak directly to telecommunication facilities, cellular phone service has become an integral part of personal and business communication. As such, installation of the proposed telecommunications facility implements a variety of **overarching General Plan goals** by creating a functional place for those who live and work within the city. The proposal has been determined to be consistent with the General Plan."

Comment: Designation of this location as Light Industrial is misleading as it only refers to one side of the street. Directly across the street are what appears to be well over 100 medium to high density apartment dwellings spanning the entire north side of Colgan Ave. I contend that this telecommunication facility is incompatible with this type of housing density in such close proximity to the proposed project.

While the applicant desires to fulfill their business objectives by installing their faux tree cell tower in this location, siting the boom in potential residential and commercial development in this general area, and city staff contends that this proposed tower is consistent with the General Plan, I take exception to this determination.

Creating a functional place for those who live and work within the city is not what this cell tower will do. It will create a potentially harmful environment for all who live and work close by or even hundreds of feet from the tower. Isn't the city required to provide residents with a safe and enjoyable living and working environment?

Proof of Coverage Gap

I'd like to bring your attention to the Verizon small cell map on the City website which shows that Verizon already has 39 active small cell facilities and 16 macro towers, including another 9 right outside city limits. **That's 64 Verizon facilities.** Now they want another one, this time on Colgan Avenue, 70 feet behind Costco. They say for the best service, they need even more coverage.

Attachment 10 of the agenda states that the proposed site will "offload traffic from existing sites taking as much as twice 5G traffic in normal operating condition. The offload of traffic will improve users experience during peak hours of data usage."

Point 1: The City is not required to assist Verizon in their expanding business objectives, and certainly not at the expense of surrounding community who are subjected to this supposedly "camouflaged" cell tower designed as a fake pine tree (which everyone knows is a cell tower), twice as high as all surrounding buildings. This will be a visual blight that will not only assault the surrounding neighbors, but also those who enjoy the walking trails along Colgan Creek.

Point 2: While the Santa Rosa's telecommunication ordinance does not require specific verification of provider coverage gaps, it does contain several statutes that can apply.

From the Telecommunication Ordinance:

2. Separation between facilities. No telecommunication tower, providing services for a fee directly to the public, shall be installed closer than two miles from another readily visible, uncamouflaged or unscreened telecommunication tower unless it is a co-located facility, situated on a multiple user site, not readily visible, or technical evidence acceptable to the Director or Commission, as appropriate, is submitted showing a clear need for the facility and the infeasibility of co-locating it on an existing tower. Facilities that are not proposed to be co-located with another telecommunication facility shall provide a written explanation why the subject facility is not a candidate for co-location.

Verizon's own maps showing their small cell wireless facilities are not accurate. There are actually twice as many Verizon small cells in Santa Rosa than are shown on the map they

submitted. Why is that? I contend that their reporting is therefore unreliable and as such, how can any of it can be trusted?

How do we know that existing sites are taking as much as twice 5G traffic in normal operating conditions? Where is the proof of that? And what does improving users experience mean? Are calls being dropped? Can people talk and text? Contrary to Verizon's assertions, talk and text are all that's legally required (see Addendum A below). Basic phone service is all that's required for emergency calls and notifications.

It is important to note that Verizon already has facilities less than 2 miles from this proposed Colgan Creek location. Here are some:

750 Aston Avenue: 0.5 miles
250 Kawana Springs Road: 0.7 miles
1235 Santa Rosa Avenue: 0.6 miles
1028 Pressley Street: 1.0 miles
1680 Allan Way: 1.2 miles
3101 Old Petaluma Hill Road: 1.4 miles

From Verizon's maps, it appears there are macrotowers by the Fairgrounds (less than 2 miles away), as well as towers near 4th Street, in Roseland, off Stoney Point, and many other locations throughout the city.

Verizon stated they have searched for other locations and have not been able to secure a site that meets their objectives. If this tower is denied, Verizon can find another one that's not right across from hundreds of homes with seniors and families, and not right next to a lovely creek that will be collecting blown off plastic needles that will degrade into microplastics, carrying them into the Russian River.

Staff report, nuisance, public interest, health, safety, injury and welfare.

#2- Zoning, item #3-5: "Granting the permit would not constitute a nuisance or be injurious or detrimental to the public interest, health, safety, convenience, or welfare, or materially injurious to persons, property, or improvements in the vicinity and zoning district in which the property is located..."

And the Resolution adds more:

E.: "Granting the permit would not constitute a nuisance or be injurious or detrimental to the public interest, health, safety, convenience, or welfare, or materially injurious to persons, property, or improvements in the vicinity and zoning district in which the property is located in that the project included an Electromagnetic Energy Report, prepared by Waterford Consultants, LLC, received on July 26, 2023, which concluded that the proposed placement of the telecommunications tower at the subject site will not result in exposure of the public to excessive

levels of radiofrequency energy as defined in the FCC Rules and Regulations...”

These are reasons why this facility has the very likely potential to expose the public to excessive levels of RF energy as defined by the FCC R&R's. See more evidence below.

The Staff Report Analysis

2) Analysis/Zoning: An electromagnetic Energy (EMF Exposure Report” **prepared by OSC Engineering, Inc. dated May 19, 2021** concluded that the proposed placement of the tower at the subject site will not result in exposure of the public to excessive levels of radio frequency energy as defined in the FCC Rules and regulations.

It appears this May 19, 2021 report is not the one that now accompanies the application. Currently there is a radio frequency emissions compliance report compiled by Waterford dated May 24, 2023. This Waterford report tells a different story. I assume you have studied the pages in this report and see the levels of RF from the maps at various heights. Although the final analysis by Electrician David Kiser states the total MPE will be 11.79% of the FCC General Population limits, this is for a 30 minute period as stated on page 2. What about employees in Costco working an 8 or longer shift, or the apartment residents living in the vicinity 24/7?

Finally, how did Mr. Kiser determine that 11.79% value? Since this is such a critical percentage, can you please explain to the public how this percentage was determined?

Do you realize that 11.79% of the FCC Maximum Permissible Exposure (10 million uW/m²) is 1,179,000 uW/m²- (over one million)? Many adverse biological affects have been observed in levels as low as 1,000 uW/m² according to hundreds of peer reviewed scientific papers!

Radio Frequency Exposure FCC Compliance Assessment

The specifics of the report are as follows:

On page 1: Verizon's Maximum Permissible Exposure levels will be exceeded by 127% at 30 feet for the adjacent building. This includes the height of nearby Costco. The maps show:

- At 62 ft (antenna level) at approx. 150 feet radius, MPE is determined to be between 100% to 500%. At 70 feet, it can be as high as 5,000%.
- At 25 ft height (close to roof height of many nearby buildings and dwellings) MPE can be anywhere from 5% to 100%.
- At ground level, MPE is the same: from 5% to 100%. This ground exposure includes all of Costco, the parking areas, all the surrounding buildings, as well as apartments across the street.

This huge range needs to be explained. Where will the MPE be 5%. Where will it be 100%? How will we know?

Waterford states that mitigation is required, which involves reducing the power output of the facility by 3db, which can reduce the MPE to bring the facility into RFR compliance. How will this be verified?

Is this general or assumed antenna modeling good enough to safeguard the public?

Once the tower is up, who will monitor ongoing compliance? Will the city accept this responsibility? To not ensure compliance with ongoing monitoring would be irresponsible at best! And what are the remedies if the tower is out of compliance?

Fire Safety

Please ensure that the following multi-step electric fire safety protocol is required to demonstrate compliance with the generally applicable technical requirements of the following codes: the National Electric Code, the California Electric Code and the local County and City Electric Code.

Source: Susan Foster (White paper by Susan Foster on Fire Risks and Telecommunications Equipment "Protecting LA County's Future" available on request)

(A) A short circuit and coordination study ("SCCS") calculated pursuant to the IEEE 551-2006: Recommended Practice for Calculating AC Short-Circuit Currents in Industrial and Commercial Power Systems or the latest version of that standard. The study must demonstrate the protection devices will ensure the equipment enclosure will not be breached. The SCCS must include analysis of Voltage Transient Surges due to contact of conductors of different voltages;

(B) A one-line diagram of the electrical system;

(C) Voltage Drop & Load Flow Study;

(D) Load Calculation;

(E) Panel Directories;

(F) A plot plan showing the location of the mounting structure including address, or structure designation, or GPS location;

(G) A plot plan showing the location of the service disconnecting means;

(H) A demonstration there will be instructions for de-energizing the equipment by First Responders;

(I) A list of toxic substances that may develop during arcing or fire that may impede fire suppression efforts;

Reason for requiring this Document (I): *"Arcing or fire may create a pressure wave that can imperil life, health and property. The intense heat of an electrical arc may turn non-hazardous substances into hazardous substances. Special protective equipment may be required. Electric arcing can vaporize copper or aluminum. Copper expands dramatically and powerfully when converted from solid to vapor, which can cause an air blast that throws an individual several feet with fatal force. Electric arcs instantly reach temperatures of thousands of degrees. Normally non-hazardous materials may become hazards. Metals may vaporize and damage lungs."*

Collocation:

This telecommunications tower must not get its “foot on the ground.” Once it’s there, with its 12 massive antennas, including the additional 8 “radio units,” microwave and GPS antennas, there will be no recourse for those living in proximity of this tower to protect themselves. Once a tower is in place, other telecommunications companies have carte blanche to collocate their antennas on the tower, thereby doubling or even tripling the impact. In this likely scenario, what was once compliance with the FCC's MPE would now be out of compliance by a factor of two or three.

In Conclusion:

This Verizon Tower siting is much too important for a blanket approval without these issues being addressed. If you deny the tower at the Jan 11th meeting, Verizon will most likely appeal. However, this will toll the shot clock and give the City time for a full legal analysis of their rights in this matter. Please see Addendum A below.

Thank you for your valuable time in this critical matter.

Sincerely,

Sidnee Cox
SafeTech4SantaRosa
EMF Safety Network

Addendum A:

Source: <https://wireamerica.org/>

Also see: <https://wireamerica.org/mccollough/>

In short, in the target area, if there is sufficient radio signal strength (anything between -115 dBm to -85 dBm) for any single frequency that can be used for wireless phone calls (usually any frequency between 600Mhz and 900 MHz), then there is no "significant gap" in wireless telecommunications service.

First, consider some federal definitions for telecommunications and information service, below.

LII → U.S. Code → Title 47. TELECOMMUNICATIONS → Chapter 5. WIRE OR RADIO COMMUNICATION → Subchapter I. GENERAL PROVISIONS → Section 153. Definitions

Title 47 U.S. Code [§ 153](#) Definitions.

(50) "Telecommunications" — The term “telecommunications” means the transmission, between or among points specified by the user, of information of the user’s choosing, without change in the form or content of the information as sent and received."

(53) "Telecommunications service" — The term “telecommunications service” means the offering of telecommunications for a fee directly to the public, or to such classes of users as to be effectively available directly to the public, regardless of the facilities used."

(24) "Information service" — The term “information service” means the offering of a capability for generating, acquiring, storing, transforming, processing, retrieving, utilizing, or making available information via telecommunications, and includes electronic publishing, but does not include any use of any such capability for the management, control, or operation of a telecommunications system or the management of a telecommunications service."

The First Circuit and Ninth Circuit definitions of “significant gap” in wireless telecommunications service **only applies to the making of wireless phone calls**; “significant gap” does not apply to wireless information service (broadband/data/internet). That means the 1996-TCA preemption directives in 47 U.S.C. § 332(c)(7)(B) **do not apply** to wireless information service. Also, "capacity", "enhanced service" or "augmented [any]G coverage" is not defined in the 1996-TCA or in Ninth circuit case law, so **these terms are moot and irrelevant**.

Also, FCC Order 18-133, the so-called "small" Wireless Telecommunications Facilities (sWTFs) Deployment Order states a presumptive preference to use the Cal. Payphone Ass’n standard, 12 F.C.C.R. 14191, 14209 (1997) instead of "significant gap". This presumptive preference does not have the force of law. Per the Ninth Circuit case law, “significant gap” in wireless telecommunications service and "least intrusive means" for filling any proven gap is the law of the land.

For all states in the Ninth Circuit, including California:

From <https://wireamerica.org/2005-metropcs-v-san-francisco/>

I. BACKGROUND

"This case marks yet another episode in the ongoing struggle between federal regulatory power and local administrative prerogatives — the kind of political collision that our federal system seems to invite with inescapable regularity. And as most often happens in such cases, the courts are summoned to re-strike the balance of power between the national and the local. More specifically, we are called upon to interpret several provisions of the TCA, an exegetical effort having implications for Federal Communications Commission (FCC) licensing authority, **wireless telecommunications** companies and municipal zoning authorities alike . . . The basic facts of this case are not in dispute. MetroPCS is a provider of **wireless telecommunications** services."

D. Prohibition Claim

2. Service Gap

(a) Definition of “Significant Gap”

“... The First Circuit . . . held that a local regulation creates a “significant gap” in service (and thus effectively prohibits wireless services) if the provider in question is prevented from filling a significant gap in its own service network. See Second Generation Props., 313 F.3d at 631-33 . . . The district court also found these arguments persuasive, since it **formally adopted the First Circuit rule** in its decision below. 259 F.Supp.2d at 1013-14 . . . Having considered both the avowed policy goals of the TCA and the practical implications of the various constructional options, we elect to follow the district court’s lead and **formally adopt the First Circuit’s rule that a significant gap in service (and thus an effective prohibition of service) exists whenever a provider is prevented from filling a significant gap in its own service coverage** . . . we recognize that the TCA **does not guarantee wireless service providers coverage free of small “dead spots,”** the existing case law amply demonstrates that “significant gap” determinations are extremely fact-specific inquiries . . . The district court correctly notes that the **relevant service gap must be truly “significant” and “not merely individual ‘dead spots’** within a greater service area.” 259 F.Supp.2d at 1014. Courts applying both versions of the “significant gap” test appear to agree on this proposition. See e.g., Second Generation Props., 313 F.3d at 631; 360° Communications Co., 211 F.3d at 87; Willoth, 176 F.3d at 643-44. ”

(b) Least Intrusive Means

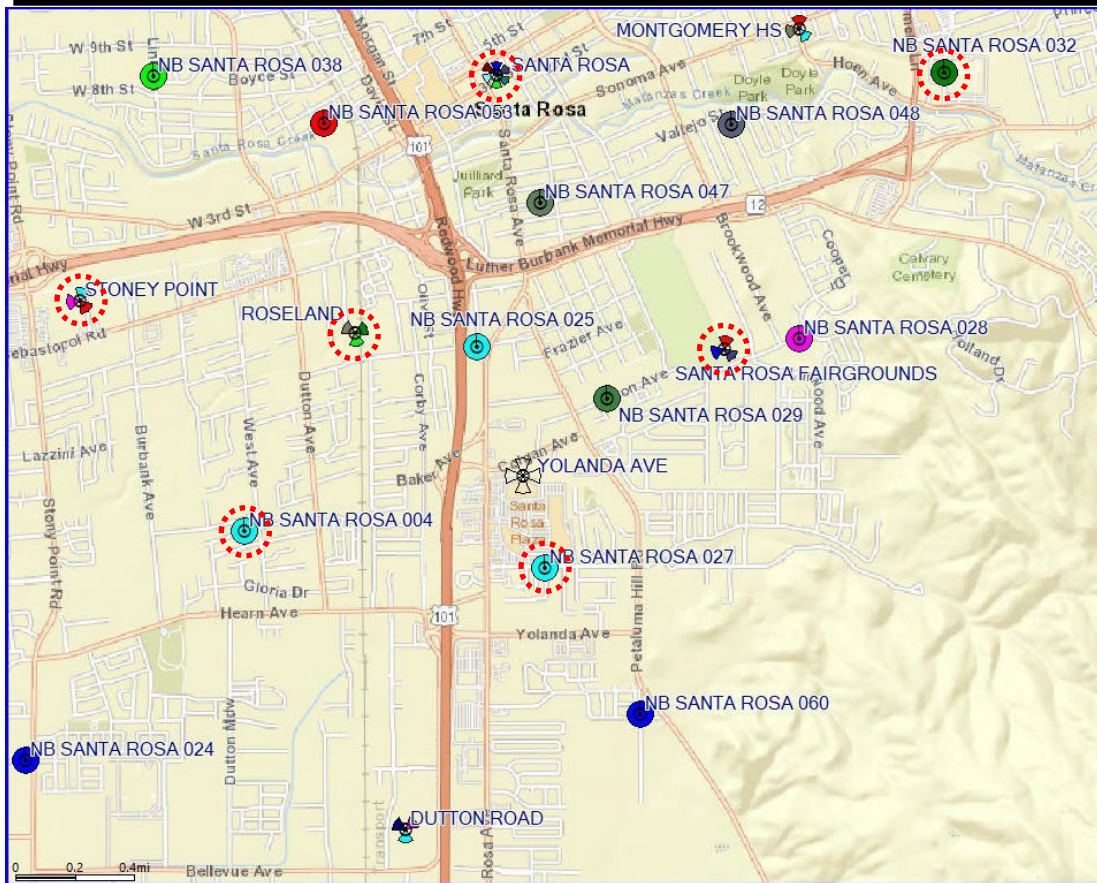
“... The Second and Third Circuit 'least intrusive' standard, by contrast, allows for a meaningful comparison of alternative sites before the siting application process is needlessly repeated. It also gives providers an incentive to choose the least intrusive site in their first siting applications, and it promises to ultimately identify the best solution for the community, not merely the last one remaining after a series of application denials . . . For these reasons, **we now adopt the “least intrusive means” standard** and instruct the district court to apply this rule as necessary in its consideration of the prohibition issue on remand.”

From <https://wireamerica.org/lawsuits/2008-sprint-v-san-diego/>

A. The Effective Prohibition Clauses of 47 U.S.C. § 253(a) and 47 U.S.C. § 332(c)(7)(B)(i)(II)

“... We find persuasive the Eighth Circuit’s and district courts’ critique of Auburn. Section 253(a) provides that “[n]o State or local statute or regulation . . . may prohibit or have the effect of prohibiting . . . provi[sion of] . . . **[wireless] telecommunications service.**” In context, it is clear that Congress’ use of the word “may” works in tandem with the negative modifier “[n]o” to convey the meaning that “state and local regulations shall not prohibit or have the effect of prohibiting telecommunications service.” Our previous interpretation of the word “may” as meaning “might possibly” is incorrect . . . Our holding today therefore harmonizes our interpretations of the identical relevant text in §§ 253(a) and 332(c)(7)(B)(i)(II). Under both, **a plaintiff must establish either an outright prohibition or an effective prohibition** on the provision of **[wireless] telecommunications services**; a plaintiffs showing that a locality could potentially prohibit the provision of telecommunications services is **insufficient.**”

Map Overview: EXISTING + YOLANDA AVE Site in Santa Rosa



Congested Sites



On-Air Site (Existing)



New Site (Proposed)

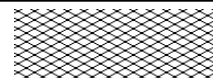
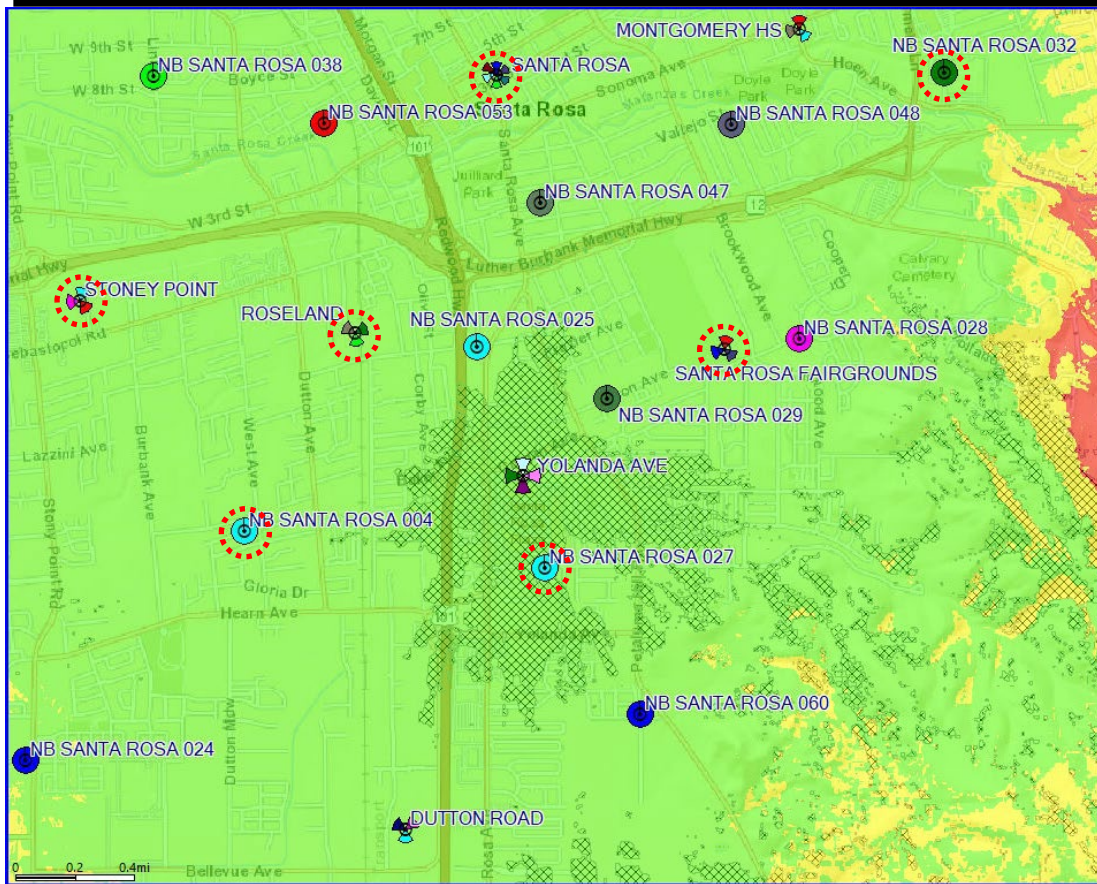
Coverage Objective: Proposed YOLANDA AVE Site in Santa Rosa

ENHANCED COVERAGE: Verizon Wireless existing wireless network experienced high data usage in its Long Term Evolution (LTE) both 4G and 5G wireless services in central Santa Rosa. Existing sites **SANTA ROSA FAIRGROUNDS, SANTA ROSA, ROSELAND, STONEY POINT**, and 3 other Small Cells whose average traffic load is twice the normal operating condition of a site. Thus, **YOLANDA AVE** proposed site located in 244 Colgan Avenue, Santa Rosa, CA is meant to offload these congested sites. This will enhance coverage along HWY 101 and Roseland, South Park, Bellevue neighborhoods including business district in the area.







YOLANDA AVE site improves network performance that help commuters with an augmented in-vehicle coverage where wireless service quality is intermittently not accessible to Verizon subscribers.

Verizon network is key to providing wireless service to its customers in the County of Sonoma as well as supporting emergency services such as 911 calls. Proposed site will augment Verizon network in said areas and improved user's experience especially during peak hours of data usage.

Existing 4G Coverage Map : YOLANDA AVE Site in Santa Rosa



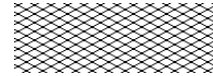
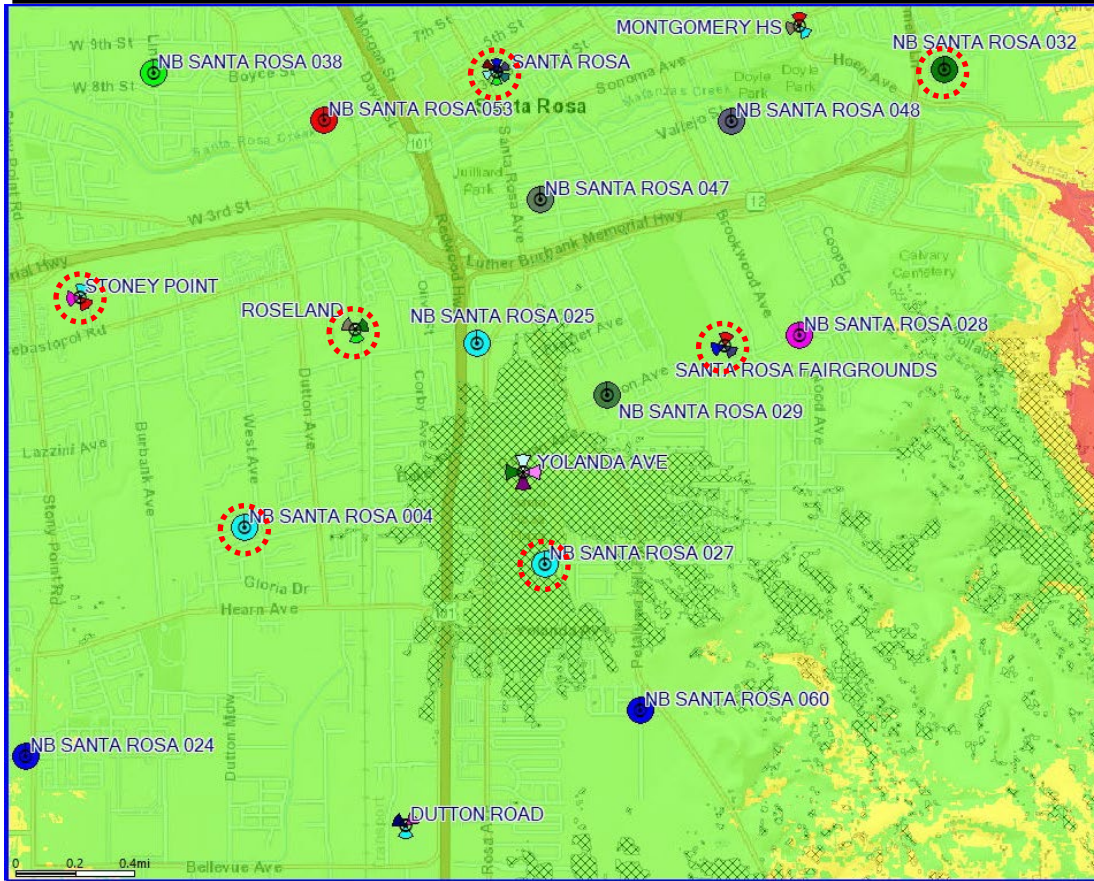
Trellis overlay represents new coverage from proposed YOLANDA AVE Site. The predicted overlap area will offload traffic from existing sites that provide service within the Trellis Polygon. These sites currently taking twice as much of 4G traffic load in normal operating condition. The offload of traffic will improved users experience especially during peak hours of data usage.

-  Congested Sites
-  On-Air Site (Existing)
-  New Site (Proposed)
-  INDOOR
-  IN VEHICLE
-  OUTDOOR









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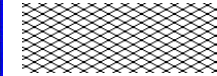
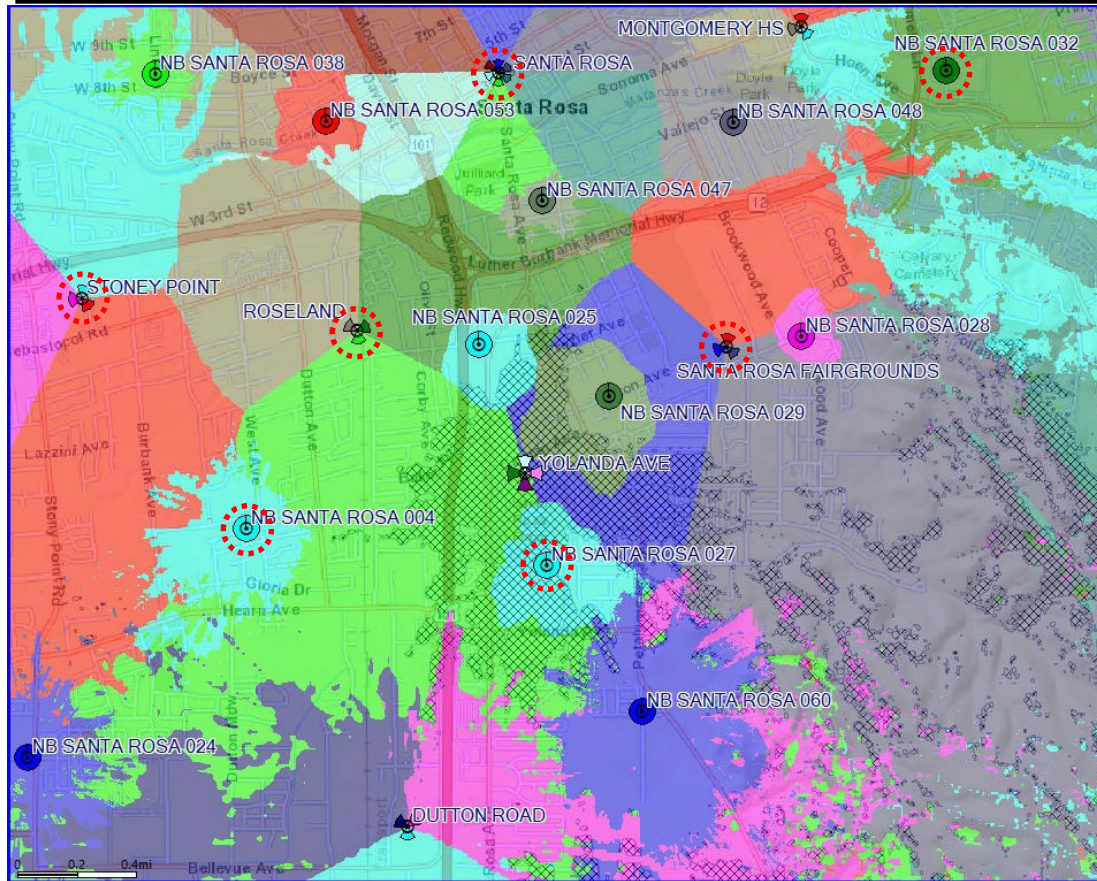
Existing + Proposed 4G Coverage Map : YOLANDA AVE Site in Santa Rosa



Trellis overlay represents new coverage from proposed YOLANDA AVE Site. The predicted overlap area will offload traffic from existing sites that provide service within the Trellis Polygon. These sites currently taking twice as much of 4G traffic load in normal operating condition. The offload of traffic will improved users experience especially during peak hours of data usage.

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Existing 4G Best Server Coverage Map: YOLANDA AVE Site in Santa Rosa



Trellis overlay represents new coverage from proposed YOLANDA AVE Site. The predicted overlap area will offload traffic from existing sites that provide service within the Trellis Polygon. These sites currently taking twice as much of 4G traffic load in normal operating condition. The offload of traffic will improved users experience especially during peak hours of data usage.



Congested Sites

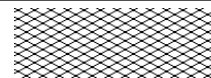
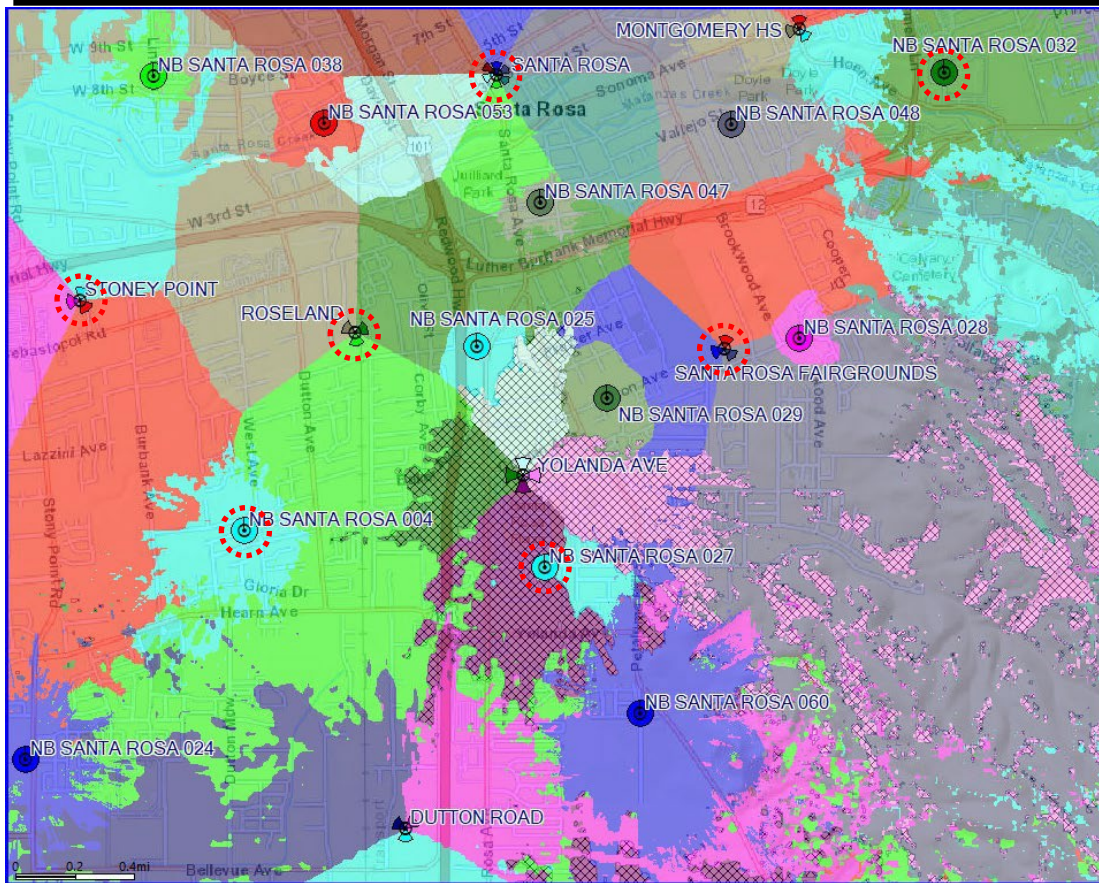


On-Air Site (Existing)



New Site (Proposed)

Existing + Proposed 4G Best Server Coverage Map: YOLANDA AVE Site in Santa Rosa



Trellis overlay represents new coverage from proposed YOLANDA AVE Site. The predicted overlap area will offload traffic from existing sites that provide service within the Trellis Polygon. These sites currently taking twice as much of 4G traffic load in normal operating condition. The offload of traffic will improved users experience especially during peak hours of data usage.



Congested Sites



On-Air Site (Existing)

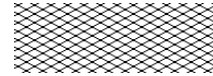
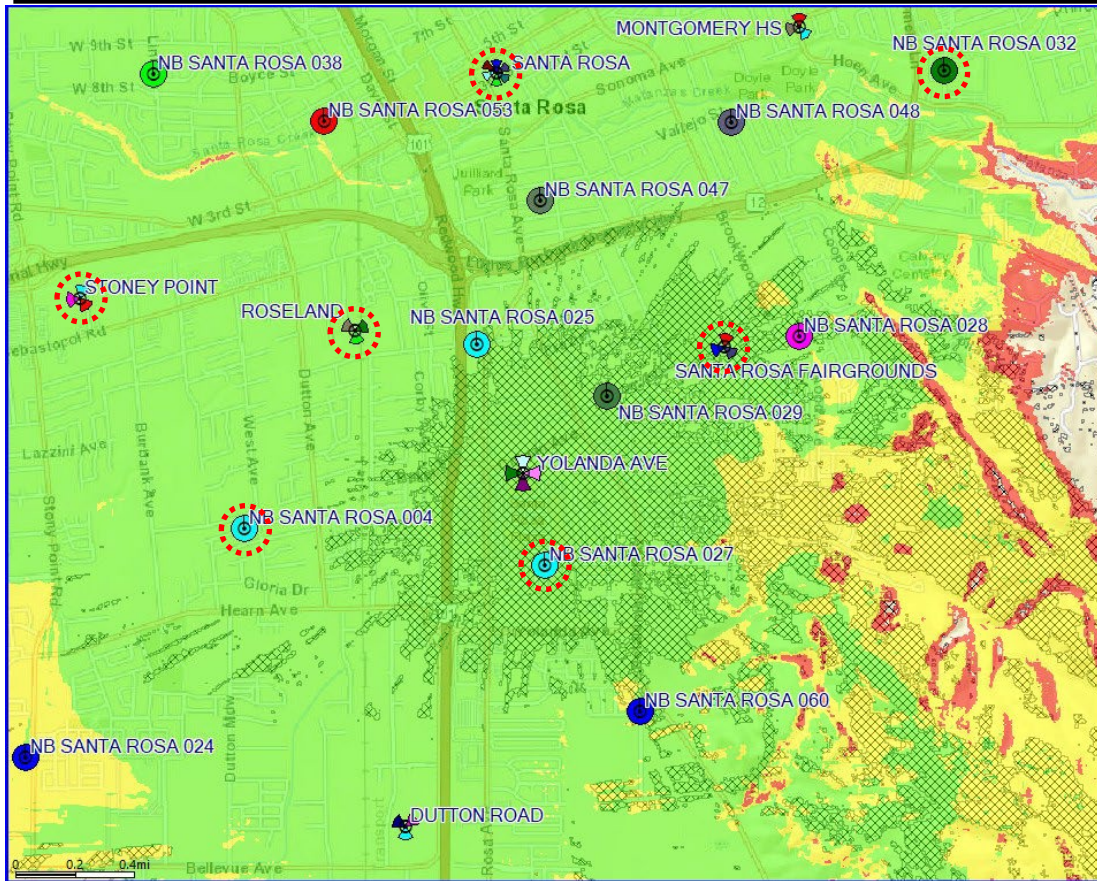


New Site (Proposed)









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Existing 5G Coverage Map : YOLANDA AVE Site in Santa Rosa



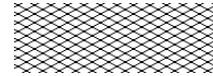
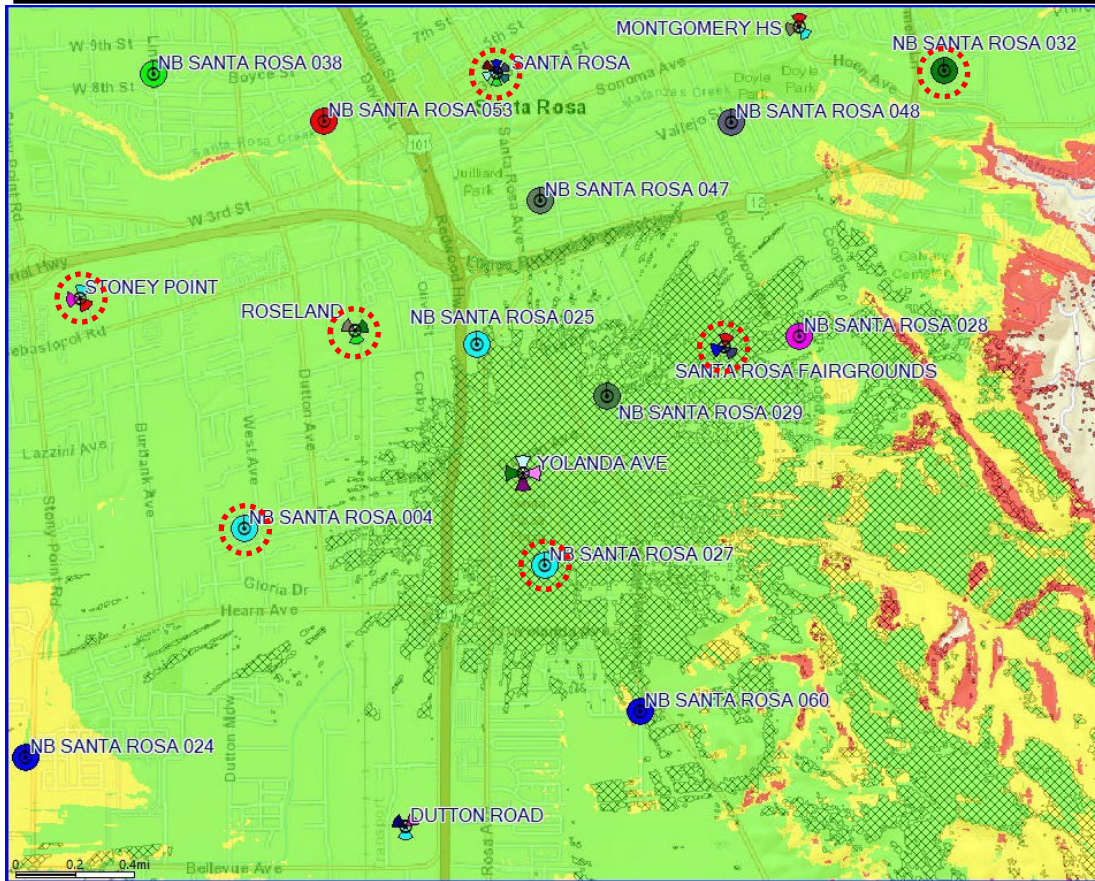
Trellis overlay represents new coverage from proposed YOLANDA AVE Site. The predicted overlap area will offload traffic from existing sites that provide service within the Trellis Polygon. These sites currently taking twice as much of 5G traffic load in normal operating condition. The offload of traffic will improved users experience especially during peak hours of data usage.

-  Congested Sites
-  On-Air Site (Existing)
-  New Site (Proposed)
-  INDOOR
-  IN VEHICLE
-  OUTDOOR









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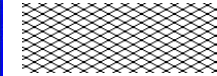
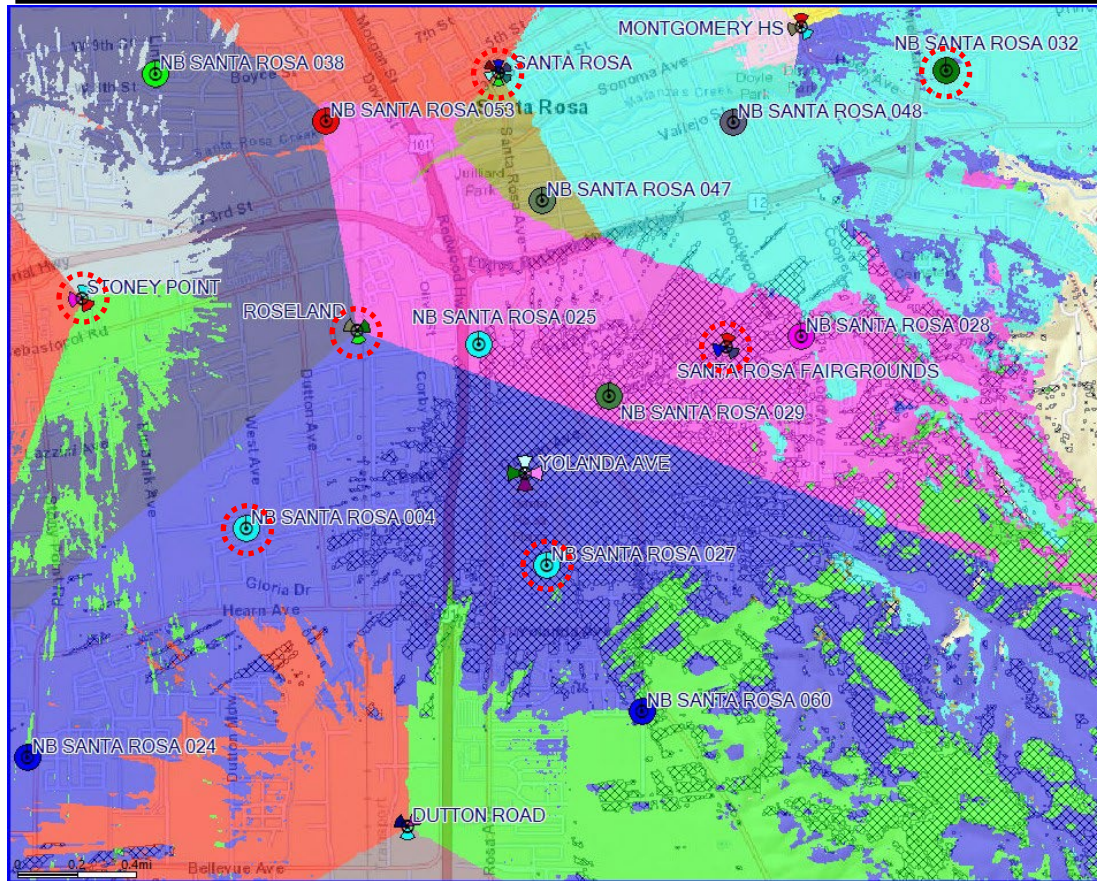
Existing + Proposed 5G Coverage Map : YOLANDA AVE Site in Santa Rosa



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-  IN VEHICLE
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Existing 5G Best Server Coverage Map: YOLANDA AVE Site in Santa Rosa



Trellis overlay represents new coverage from proposed YOLANDA AVE Site. The predicted overlap area will offload traffic from existing sites that provide service within the Trellis Polygon. These sites currently taking twice as much of 5G traffic load in normal operating condition. The offload of traffic will improved users experience especially during peak hours of data usage.



Congested Sites

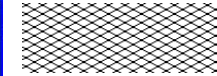
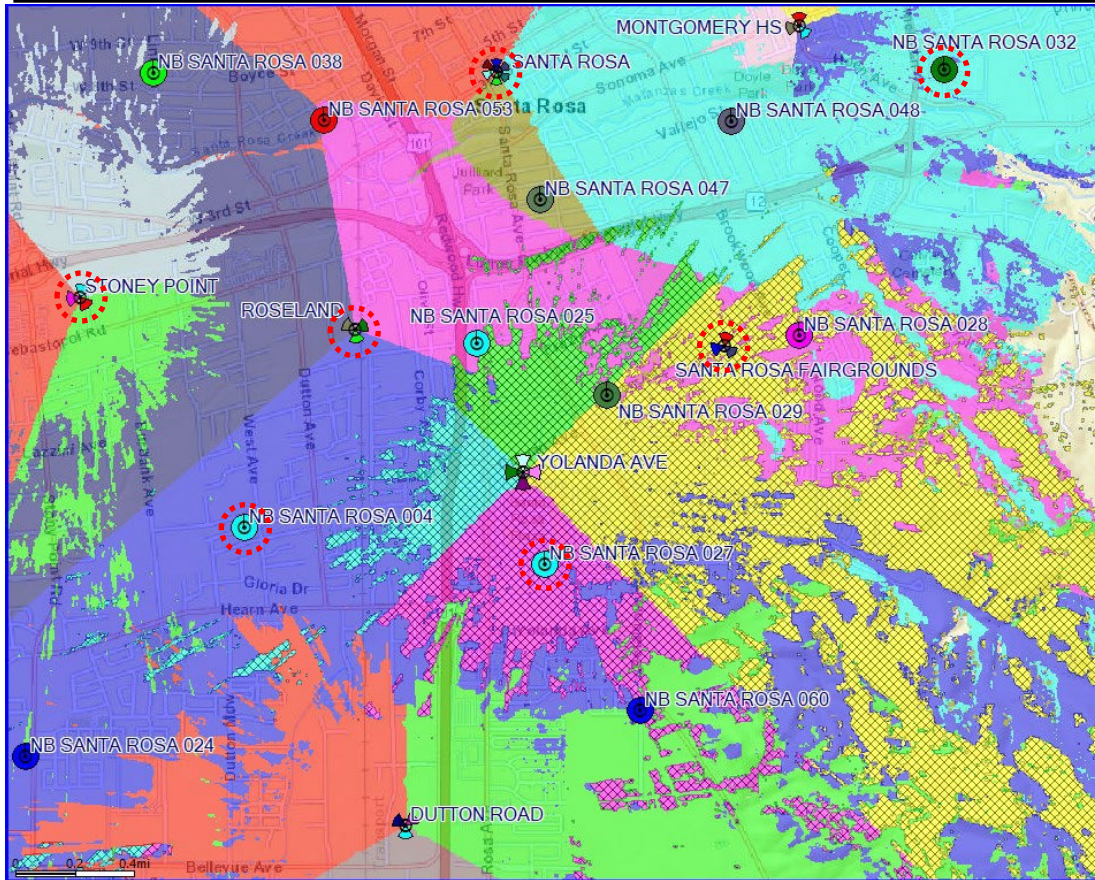


On-Air Site (Existing)



New Site (Proposed)

Existing + Proposed 5G Best Server Coverage Map: YOLANDA AVE Site in Santa Rosa



Trellis overlay represents new coverage from proposed YOLANDA AVE Site. The predicted overlap area will offload traffic from existing sites that provide service within the Trellis Polygon. These sites currently taking twice as much of 5G traffic load in normal operating condition. The offload of traffic will improved users experience especially during peak hours of data usage.



Congested Sites



On-Air Site (Existing)



New Site (Proposed)

**PETITION OPPOSING THE USE PERMIT APPLICATION
FOR THE CONSTRUCTION OF A TELECOMMUNICATIONS/CELL TOWER
ON 244 COLGAN AVE., SANTA ROSA, CA (FILE NO. PRJ23-009)**

The undersigned hereby oppose the construction of a telecommunications/cell tower
on the property located at 244 Colgan Ave., Santa Rosa, CA.

We request that the permit application on file (PRJ23-009) with the Santa Rosa Planning Dept. be denied.

Printed Name	Street Address	Phone No.	Email Address	Signature
1 Paula Hollowell	133 Colgan	707 338-1069	—	<i>Paula Hollowell</i>
2 MARTI GRANUCCI	133 Colgan Ave	415 937 3513		<i>Marti Granucci</i>
3 Debbie Mellin	133 Colgan	530 923 9027	deborahmelling 41@gmail.com	<i>Debbie Mellin</i>
4 DIAN BURKE	133 Colgan	889-2699		<i>Diana Burke</i>
5 MIKE KOSTAKIS	722-ASTOR AVE	707 528 2715		<i>Mike Kostakis</i>
6 Melody Stewart	133 Colgan Ave #121 Santa Rosa 707-481-6328 CA 95404			<i>Melody Stewart</i>
7 Terry Lantz	126 ^{NORTH} Holston Circle			<i>Terry Lantz</i>
8 Susan Lantz	126 ^{NORTH} Holston Circle	415-827-3682		<i>Susan Lantz</i>
9 JUDITH FENLEY	10395 DeBlyn Lane Sebastopol, CA 95472	707 322-0405	JKfenley@ gmail.com	<i>Judith Fenley</i>
10 GABRIELLA RANDAZZO	9405 Willow 94931 8923011	707	gabriella randazzo @gmail.com	<i>Gabriella Randazzo</i>
11 GEO HAFT	16 Montezuma Forest Knolls		Geohaft415@ gmail.com	<i>Geo Haft</i>
12 Jennifer Grady	9 Hull St Santa Rosa 95401	707 591-3147	gradyjennifera 05@gmail.com	<i>Jennifer Grady</i>
13 Jonathan Grady	9 Hull St Santa Rosa 95401	707 303-5439	Jonjg08028@ aol.com	<i>Jonathan Grady</i>
14 Wade Smith	5010 Cladewood Santa Rosa, CA, 95409	707 548-4523	WASmith@ PremierHome COANS.COM	<i>Wade Smith</i>
15 Helen Kirby	139 Colgan Ave #1077 SR. 95404			<i>Helen Kirby</i>
16 M. SHUKLA	141 Colgan			<i>M. Shukla</i>
17 Thew Hartman	135 Colgan			<i>Thew Hartman</i>
18 Stephen Rodriguez	135 Colgan Ave			<i>Stephen Rodriguez</i>
19 Harold Dodd	137 Colgan 2009			<i>Harold Dodd</i>
20 Susan Dolan	137 Colgan 2049	971- 3187	suelaw office@ yahoo.com	<i>Susan Dolan</i>

**PETITION OPPOSING THE USE PERMIT APPLICATION
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	Printed Name	Street Address	Phone No.	Email Address	Signature
21	1 Annie Ackee	135 Colgan ²⁰³⁹			Annie Ackee
22	2 Lance South	135 Colgan			Lance South
23	3 CLYDE ANTHONY	139 Colgan			Clyde Anthony
24	4 ERA BELL	137 COLGAN			Era Bell
25	5 Lorraine Staker	137 Colgan			Lorraine Staker
26	6 John Michele deluca	135 Colgan	707 729 0079	mmdeluca@yahoo.com	Michele deluca
27	7 J. Altner	141 Colgan Ave #1093			J. Altner
28	8 Melora McArdle	141 Colgan ²⁰⁹⁵			Melora McArdle
29	9 R. Haddock	141 Colgan ¹⁰⁹¹ Ave			R. Haddock
30	10 Manu C. Haddock	141 Colgan ²⁰⁸⁹ Ave			Manu C. Haddock
31	11 Christina Johnson	143 Colgan Ave	415.261.7144		Christina Johnson
32	12 Jacques RUSSELL	143 Colgan Ave	#1109		Jacques Russell
33	13 Mark Rasmussen	141 Colgan Ave	2085		Mark Rasmussen
34	14 C Euson	139 Colgan Ave	1005		C Euson
35	15 L Miskow	131 Colgan			L Miskow
36	16 L Johnson				L Johnson
37	17 Gloria Yanez	141 Colgan Ave	#2091		Gloria Yanez
38	18 Irene L. Evans	137 Colgan 1057 - S. Rosa			Irene L. Evans
39	19 John	139 Colgan #1109	99		John
40	20 Josefina A.	143 Colgan Ave			Josefina A.

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	Printed Name	Street Address	Phone No.	Email Address	Signature
41	1 Judith A Collins	1280 Furlong Rd	707 569-4403	j3collins@gmail.com	Judith A. Collins
42	2 DONNA Campbell	154 LARKSPUR DR	707 528-7880	Sbogel@tel.djc333@net	Donna Campbell
43	3 Kendrick Cross	773 Wyoming Dr	707 606 8363	kendrickcross@gmail.com	Kendrick Cross
44	4 Kate Gajda	773 Wyoming Dr	707 542 6993		Kate Gajda
45	5 Nadia King	765 Wyoming Dr	(707) 499-1408	honsantos99@gmail.com	Nadia King
	6 NADIA KING				
46	6 Mason McCanless	4833 Lower Thomas Rd.	(707) 223-3761		Mason McCanless
	7 BONNIE FORB	Bonnie			
47	7 Jen LaPorta	547 Welsher	S. Rosa 95407		Jen LaPorta
48	8 Sidnee Cox	5846 Leonard Ct, Windsor	95492	sidnee@sonic.net	Sidnee Cox
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