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### Alternative Site Analysis

#### Background On Search Ring Determination

The following map titled "Map of Site Ring with Alternative Candidates" shows the vicinity surrounding the proposed facility, and the red circle marks the site's "search ring" which indicates the area in which a deficit in coverage was detected. The carrier's Radio Frequency (RF) Engineers are frequently assessing the quality of coverage that their customers experience by measuring data associated with dropped calls and running propagation maps which help to identify areas of the county that lack quality service. The search ring is established by utilizing the pertinent data that identifies poor coverage and the RF engineers develop a figurative "ring" which shows where a cellular tower could be located in order to address the carrier's coverage needs and thus, produce a more positive wireless experience for their customers. Upon receiving the assigned ring, we took the time to assess potentially feasible locations within the ring that would meet the carrier's goal for this project. Below are the addresses that were considered to meet the carrier's objective. The Map of Site Ring with Alternative Candidates marks the parcels that were considered as potential candidates for the purposes of addressing the inconsistent coverage found in this area of the County. Below we have provided the reasons as to why the said alternative locations did not work to address the carrier's coverage gap.

#### Alternative Parcels Considered

- **9502 Mill Station Rd., Sebastopol, CA 95472**

The most ideal location for a new tower within this search ring would be to place a facility in the center of the ring. Seeing that the center of the ring is located in parcels used for residential purposes, we decided to move slightly away from the very center of the ring since it would not be feasible to locate a wireless tower in parcels used for single family residential purposes. The parcel at 9502 Mill Station Rd. was contacted to assess whether a tower could potentially be installed at this location. After getting in touch with the Landlord, interest was expressed in allowing a tower to be located on their property. A tower that would range between 80'-100' height would meet coverage needs. However, after the site was thoroughly assessed for tower placement, it was determined that there was not sufficient space within the parcel to install a wireless tower. Our proposal requires a 100 SqFt footprint and while this parcel is large in size, a tower could not be installed without interrupting the owner's agricultural developments. Ultimately, a site here would not work because there simply was not enough available space to construct a tower and its associated equipment.

- **9845 Cherry Ridge Rd., Sebastopol, CA 95472**

This parcel was considered as a possible option that would meet the project's coverage needs because, as highlighted in the map below, this parcel is within the RF Engineer's designated search ring. Because it is not located at the center of the ring, it would not be the most preferred location for a tower but the owner was contacted nonetheless. Locating an 80'-100' tower on this parcel would've aided in improving the carrier's quality of coverage. However, after making attempts to reach out to the owner, we did not receive a response from them in which we were led to conclude that they were not interested in moving forward with our proposal. As a result, we could not move forward with this potential candidate.

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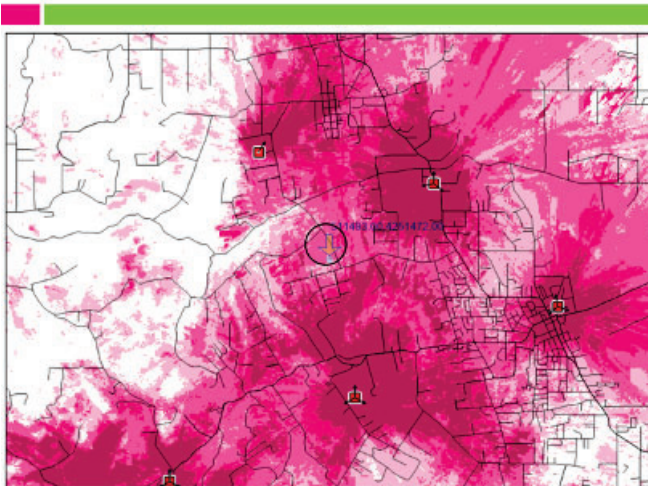
∞ **1296 Barlow Ln, Sebastopol, CA 95472**

This parcel was also considered as a possible option that would meet the project's coverage needs. While this address is located just outside of the ring, we still wanted to assess if there was an opportunity for installation at this location. As with the previous candidates discussed, because it is not located at the center of the ring, it would not be the most preferred location for a tower but the owner was contacted nonetheless so that we could assess the site's feasibility. Locating an 80'-100' tower on this parcel would've aided in improving the carrier's quality of coverage. However, after making attempts to reach out to the owner, we did not receive a response from them in which we were led to conclude that they were not interested in moving forward with our proposal. As a result, we could not move forward with this potential candidate.

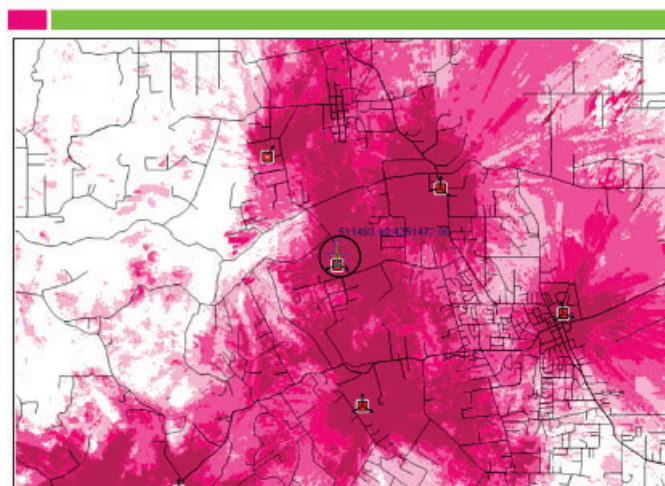
- **Parcels Located South of the Ring**

In the process of scouting potential candidates, parcels located to the South of the ring were considered. Through the map of the site ring, it is clear that most parcels to the South of the ring are developed with single family residential homes. Locating on a parcel that is specifically used for single family residential purposes is not an adequate location for a wireless tower. While an 80'-100' tower would also be an ideal height on the South side of the ring, the agricultural parcels in that area have very little available space for a tower installation and additionally, the coverage maps show that there is less of a need for services to the South of Ferguson Rd. Because of these reasons, parcels to the south of the ring were not further pursued.

**BA90016A- Predicted LTE 2100 existing coverage without Candidate A**



**BA90016A - Predicted LTE 2100 existing coverage with Candidate A**



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- **9300 Mill Station Rd., Sebastopol, CA 95472**

This is the subject parcel where we are proposing to install a new wireless tower. This parcel is closest to the center of the ring which makes it the most preferred location. An 80'-100' project is the best height that will address the poor coverage in this location. The attached coverage maps are reflective of the 80' tower that is being proposed. Additionally, the owner for this property was contacted and responded with interest in allowing us to install a tower on their parcel. Considering that this parcel is closest to the center of the ring, has space for a new tower, involves an owner who is interested in our proposal, and enables us to meet the county's development criteria for a new tower, it has been determined that this is the best location for install a new wireless tower that meets coverage gap needs.

Map of Site Ring with Alternative Candidates



Vertical Bridge Project Name: CA-7225