ALTERNATIVE SITES ANALYSIS
WCF CONDITIONAL USE APPLICATION
US-CA-6157 West Jensen

Submitted to the County of Fresno

Summary

In planning to meet its coverage objective, Verizon's RF engineers performed an RF engineering analysis, considering multiple objectives, to determine the approximate site location and antenna height required to fulfill the technical network objectives for the targeted service area. From this analysis, Verizon's RF engineers identified a 'search ring' area where a wireless facility may be located to provide effective service in the target coverage area. This facility is proposed to provide coverage to the County of Fresno specifically along Jensen Ave.

There are numerous factors that must be considered when identifying an appropriate location for a new facility. These include Verizon's coverage objectives and the existing network infrastructure, adherence to local regulations, the presence of natural and man-made barriers, the availability of suitable sites with owners amenable to entering into an agreement, and the potential impact on aesthetics. The proposed location Souht of 2137 S Blythe Ave (APN: 327-030-57) in the County of Fresno is the culmination of evaluating all these critical factors. The following is a summary of such evaluation.

The County of Fresno's wireless guidelines requires the submittal of detailed information documenting consideration of alternative sites.

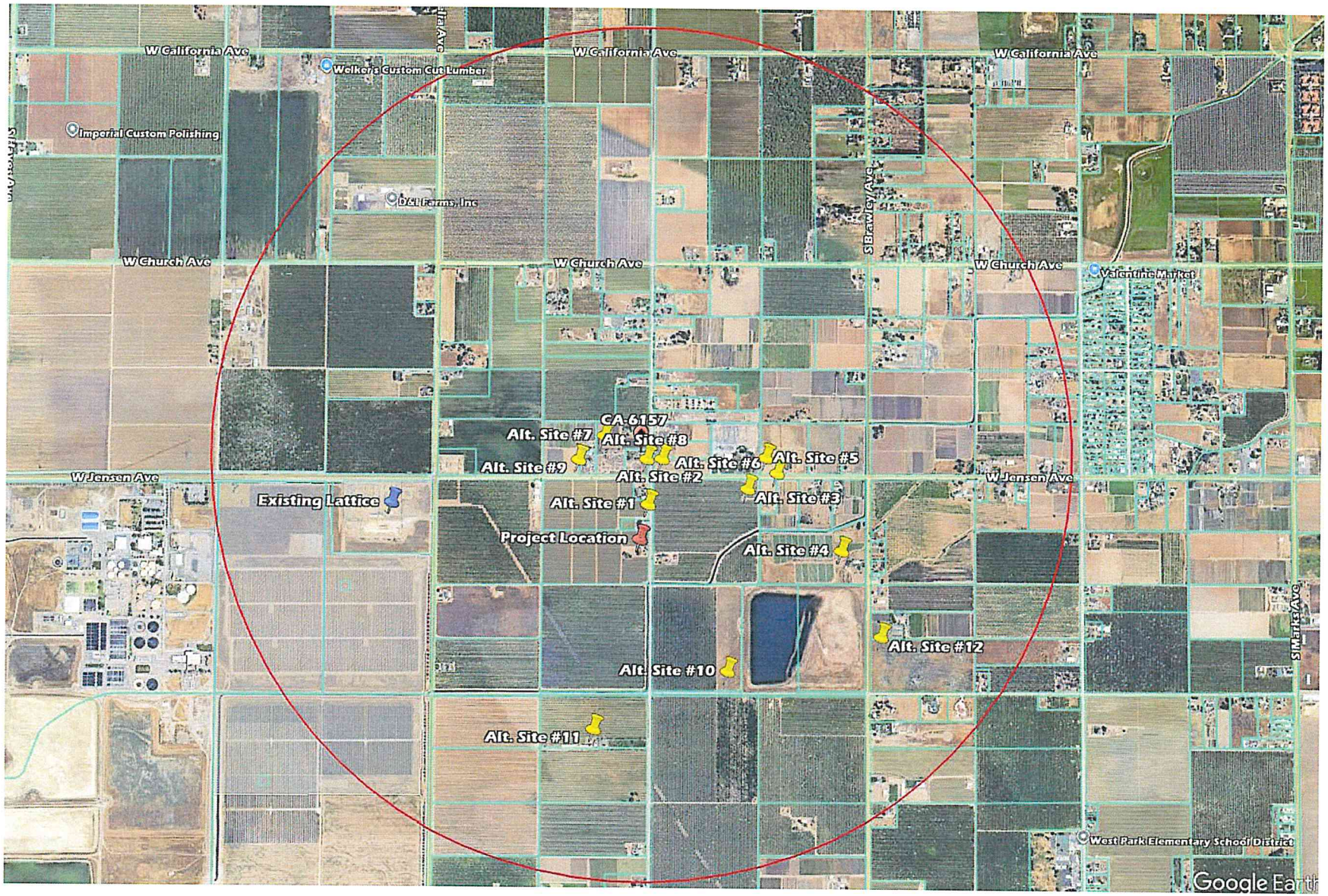
Collocation on Existing Towers

Whenever possible, Verizon seeks to construct new sites on existing infrastructure before proceeding with the construction of a new free-standing facility. Before allocating a search ring to an infrastructure provider like The Towers, LLC, Verizon conducts thorough research, ensuring all collocation opportunities are explored and exhausted. Applicants analyzed the area within the targeted search ring and found that there a three existing towers. There is a lattice tower located 0.59 miles from the proposed site. There is an ATC tower located 1.90 miles from the proposed site. Insite Towers Development, LLC is located 4.67 miles from the proposed site. As a result, it was determined that collocating on an existing tower was not a feasible alternative.

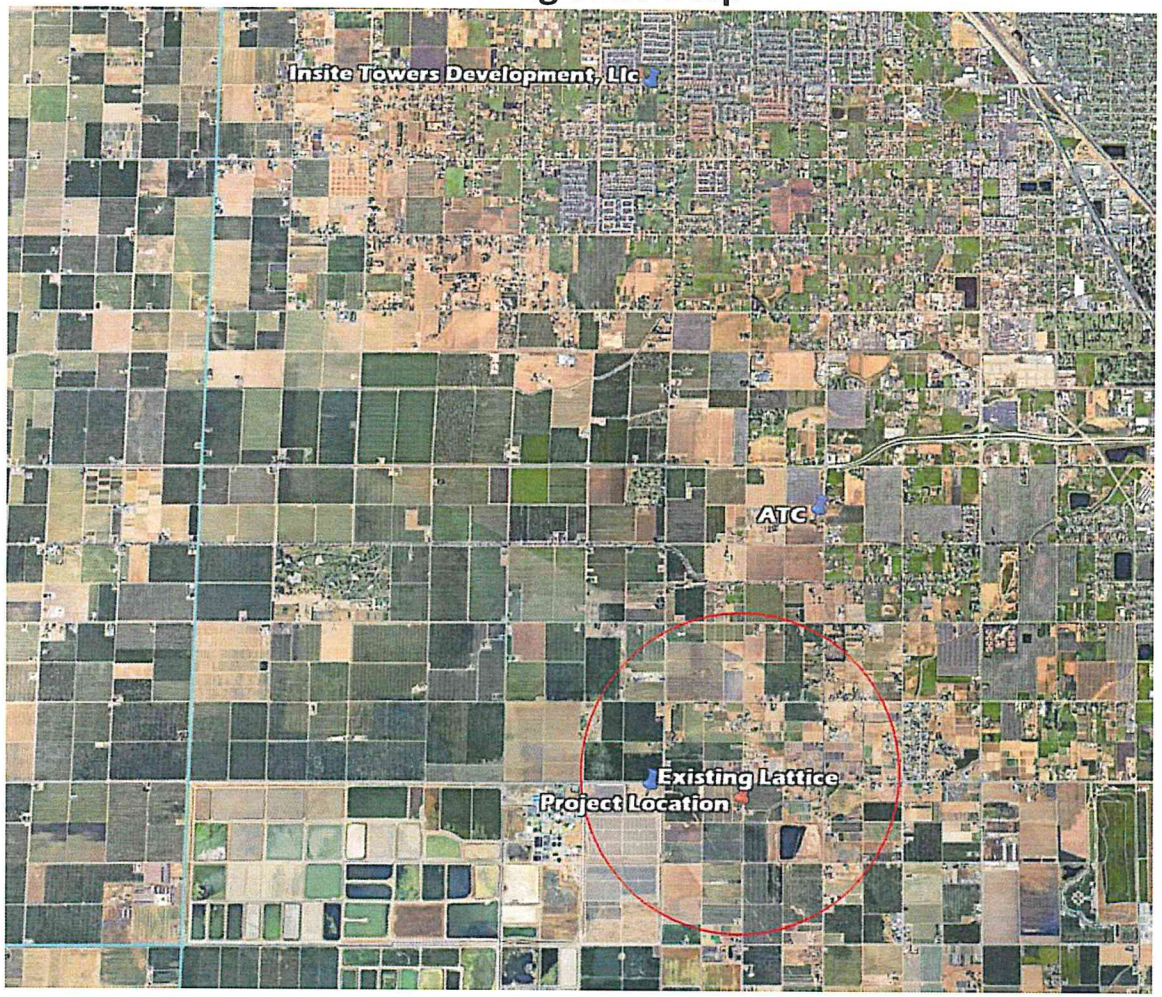
Collocation on Existing Non-Tower Structures @ 106' antenna tip height AGL

There are no existing structures or buildings within the search ring that are tall enough to accommodate a new co-located wireless facility. The search ring is predominantly comprised of agricultural land and residential homes in the agricultural area. It was determined that no existing structures or buildings within the search area can provide the height required for Verizon's antennas.

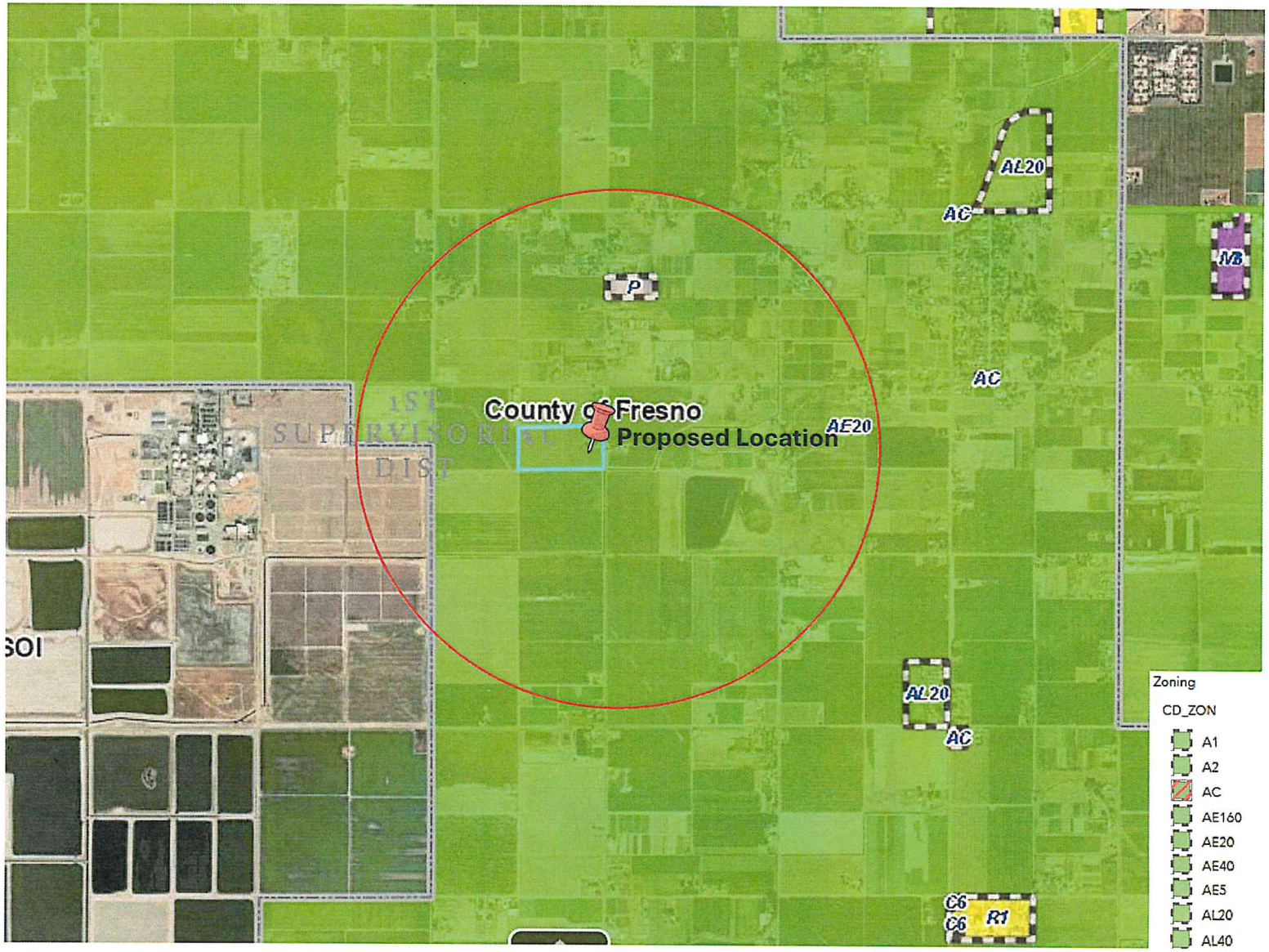
T-Mobile Search Area Map



Existing Sites Map



County of Fresno Zoning Map



Alternative Analysis Summary – New Tower Development

	Location	Zoning & Land Use	Contacted? (Y/N)	Feasible? (Y/N)	Summary
	APN: Address:	Zoning: AE-20 Jurisdiction: County of Fresno	Y	Y	This parcel was selected as the least intrusive option for the proposed wireless communications facility (WCF), as it meets the project's RF coverage requirements and the property owner agreed to lease space for the installation.
New Tower Location Alternatives					
1	APN: 327-030-58 Address: 2137 S Blythe Ave, Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out and landowner expressed interest; however they wanted it on their southern parcel which is now the proposed site.
2	APN: 327-110-65 Address: 4264 W Jensen Ave, Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out and landowner expressed interest; however an agreement could not be met on the leasing terms. Therefore, applicants could not move forward with this property.
3	APN: 327-030-10 Address: 2150 S Blythe Ave, Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out and the landowner expressed interest; however this property would require a larger access route and a greater removal of trees.
4	APN: 327-030-12 Address: 2159 S Brawley Ave, Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out and the landowner expressed interest; however, it was determined that this property would not achieve the same coverage objective of the proposed site.

	Location	Zoning & Land Use	Contacted? (Y/N)	Feasible? (Y/N)	Summary
5	APN: 327-110-24 Address: 4148 W Jensen Ave, Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out and the landowner expressed interest; however, the proposed facility would be more visible from a traveling road (W Jensen Ave). Therefore, it was determined that this site would be more intrusive.
6	APN: 327-030-36 Address: 4179 W Jensen Ave, Fresno CA, 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out; however landowner did not respond. Therefore, applicants could not move forward with this property.
7	APN: 327-110-62 Address: 1723 S Blythe Ave, Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out; however landowner did not respond. Therefore, applicants could not move forward with this property.
8	APN: 327-110-61 Address: 1769 S Blythe Ave, Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out; however landowner did not respond. Therefore, applicants could not move forward with this property.
9	APN: 327-110-63S Address: 4566 W Jensen Ave, Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out; however landowner did not respond. Therefore, applicants could not move forward with this property.
10	APN: 327-030-52 Address: 4232 W Annadale Ave, Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out; however landowner did not respond. Therefore, applicants could not move forward with this property.

	Location	Zoning & Land Use	Contacted? (Y/N)	Feasible? (Y/N)	Summary
11	APN: 327-030-46 Address: 2505 S Blythe Ave, Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out; however landowner did not respond. Therefore, applicants could not move forward with this property.
12	APN: 327-140-43 Address: Fresno, CA 93706	Zoning: AE-20 Jurisdiction: County of Fresno	Y	N	A letter of interest was mailed out; however landowner did not respond. Therefore, applicants could not move forward with this property.

Alternative Sites Analysis – Existing Sites

Location	Distance to Proposed Location	Summary
Lattice Tower APN: 327-030-44U Address: 2173 S Cornelia, Fresno, CA 93706	0.59 miles	RF engineer determined that it is not possible to diploy midband and C Band technologies on the PG&E towers at a reasonable CL due to the weight. The maximum height the lattice tower could handle here is 55' which won't meet Verizon's coverage objective.
ATC APN: 326-170-07 Address: 287 S Bawley, Fresno, CA 93706	1.90 miles	Existing tower was not feasible for colocation because it is located too far out of the search ring and would not meet the coverage objective.
Insite Towers Development, LLC APN: 312-270-16S Address: 5197 W Clinton Ave, Fresno, CA 93722	4.67 miles	Existing tower was not feasible for colocation because it is located too far out of the search ring and would not meet the coverage objective.