

AD

ASSURANCE
DEVELOPMENT

US-CA-5398, Black Oak

WCP Conditional Use Permit Application

5280 Garden Valley Rd,
Garden Valley, Ca 95622

Proposed Vertical Bridge Wireless Communication Facility (“WCF”)

- Proposal is for a new 120’ mono-pine wireless facility.
 - Designed to blend in with the surrounding pine trees in this area.
- The facility will allow T-Mobile to fill a service need by providing in-building wireless coverage to an unincorporated area of El Dorado County, in Garden Valley, specifically along Garden Valley Road and Marshall Road.
- The facility will allow T-Mobile to provide more reliable wireless service and improved access to additional wireless services for the benefit of residents, businesses, visitors and First Responders. This includes emergency 911 calls throughout the area.
- The facility has been designed to support additional wireless providers without the need for additional free-standing facilities in the area.

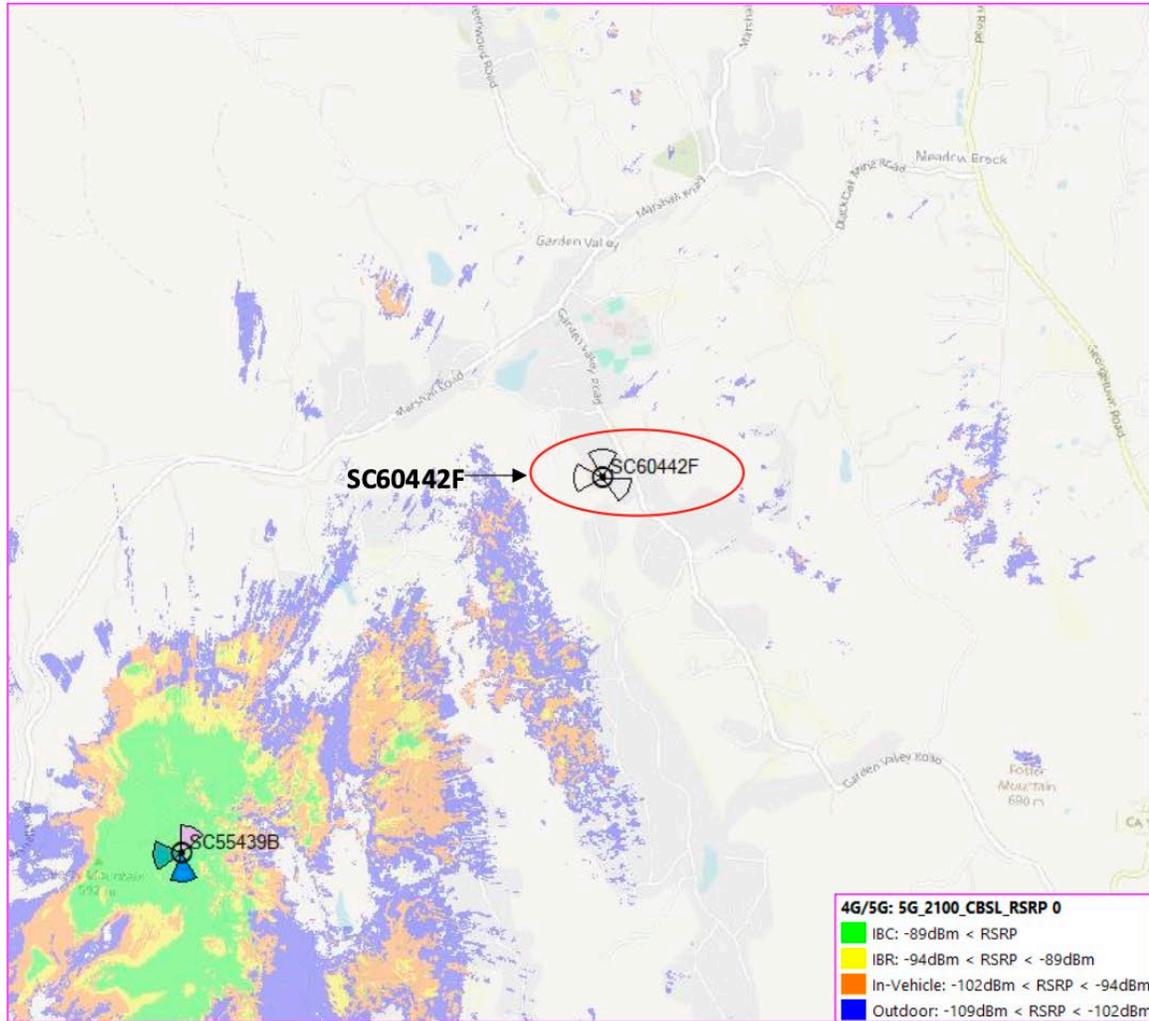
Importance of T-Mobile's Network Improvements

- Demand for wireless data is expected to **grow 20% per year** through **2028**
- **97% of Americans** have a cell phone and **85% own a smartphone**
- Over **72% of households rely on wireless** as their only means of telephone communication
 - Over **81% of children** live in wireless-only households
 - Over **85% of renters** live in wireless-only households.

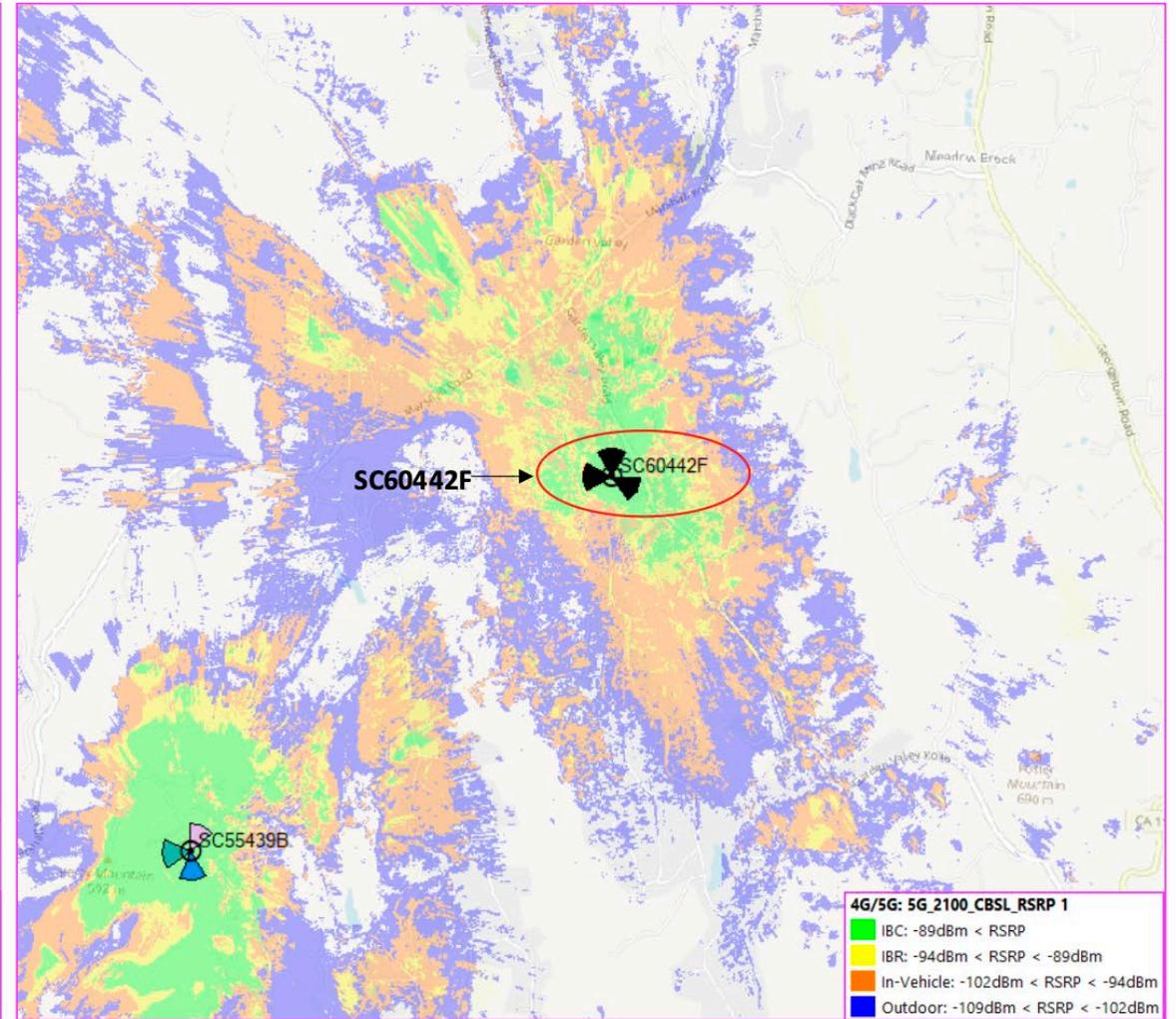
240 million calls are made to 911 in the U.S. each year, and in many areas 80% or more are from wireless devices.

Coverage Maps

SC60442F N2100 Coverage – Without Site

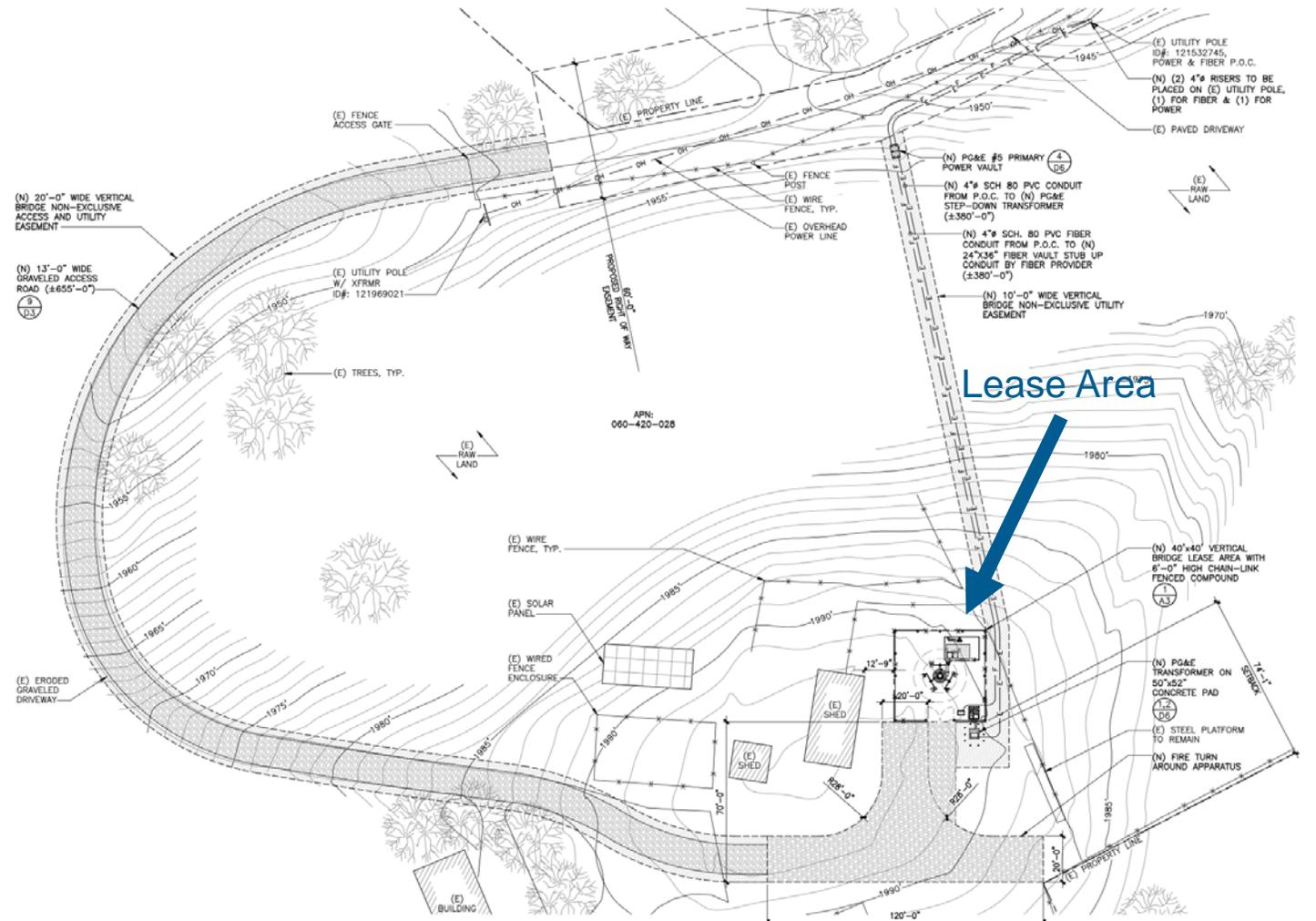
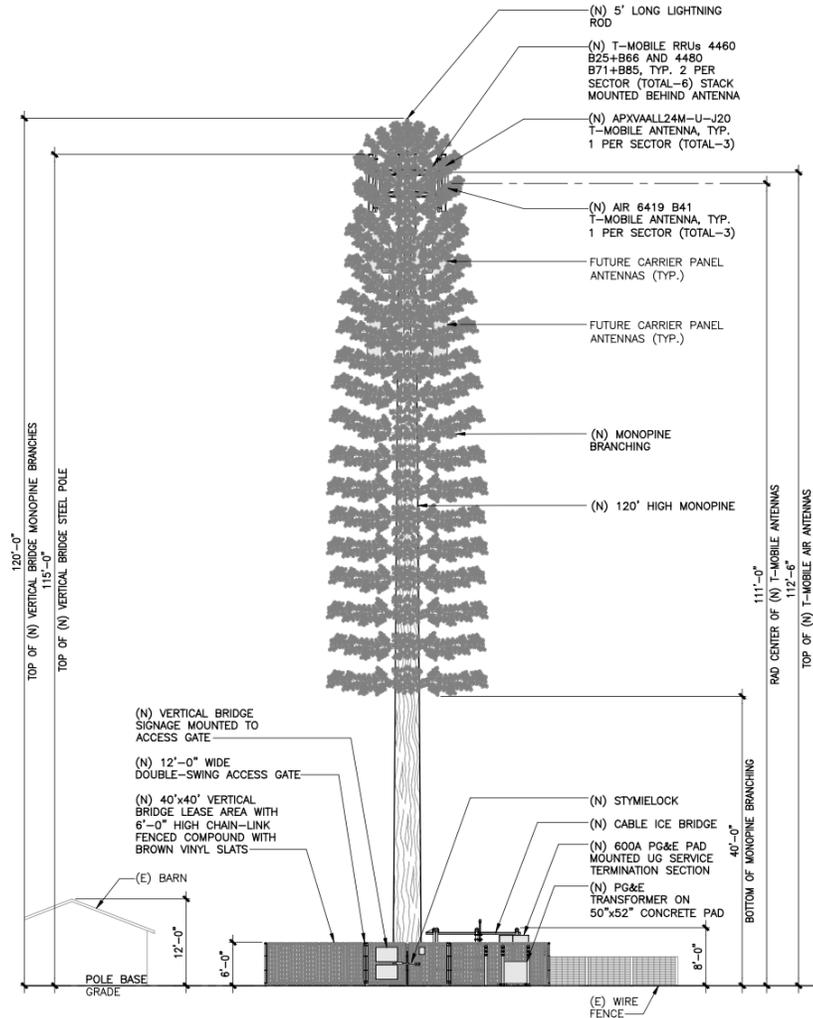


SC60442F N2100 Coverage – With Site



Proposed Design

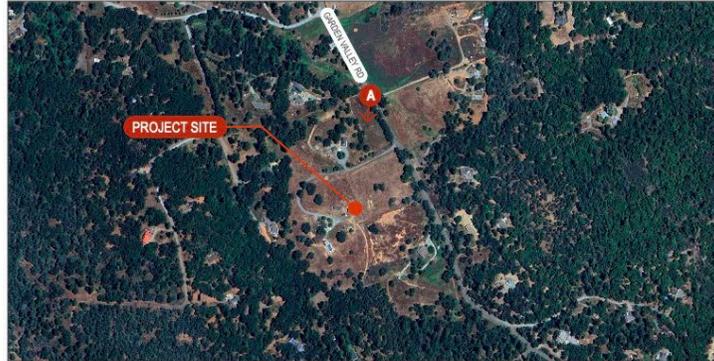
NOTE: THE MONOPINE POLE SHALL BE PAINTED BROWN.



Lease Area

Photo Simulations

AERIAL MAP



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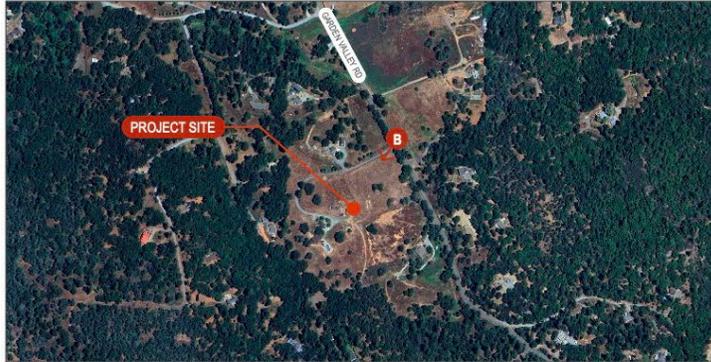


PROPOSED



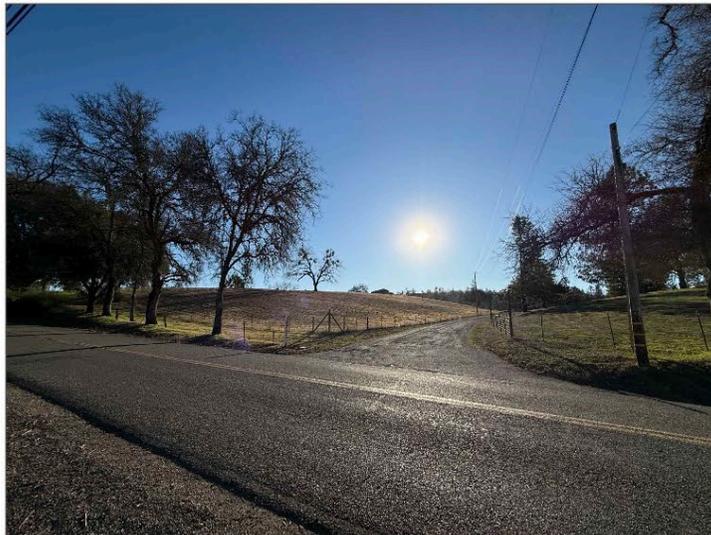
Photo Simulations

AERIAL MAP



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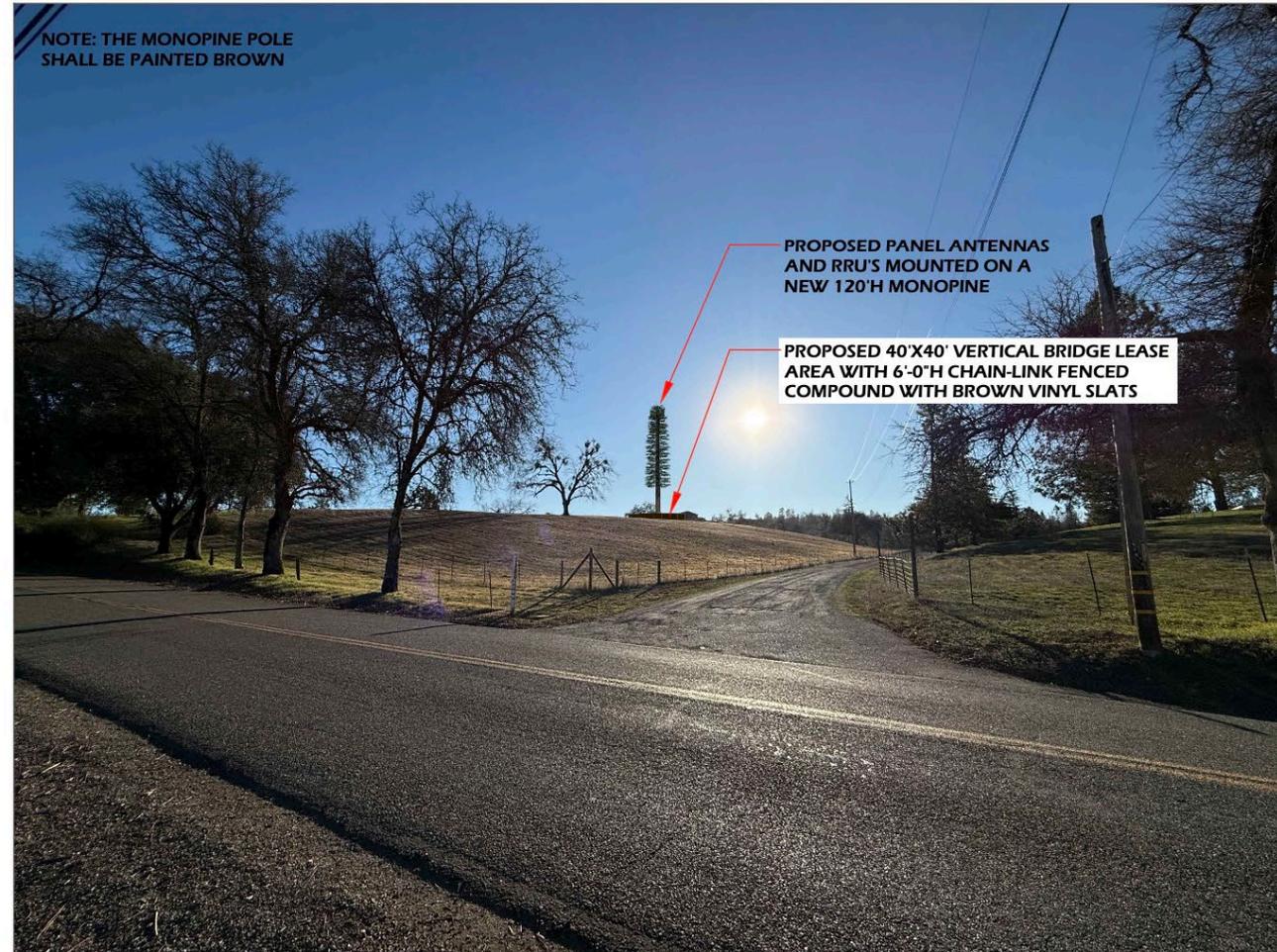
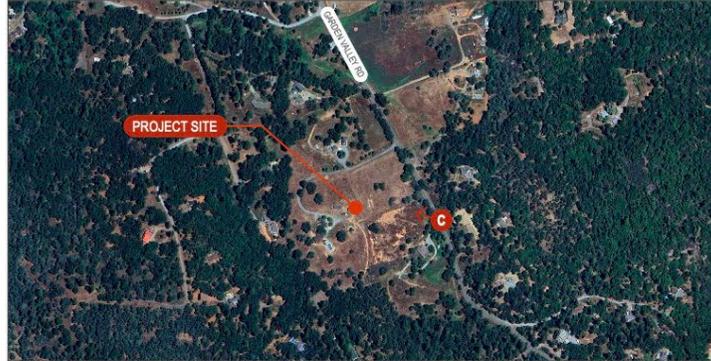


Photo Simulations

AERIAL MAP



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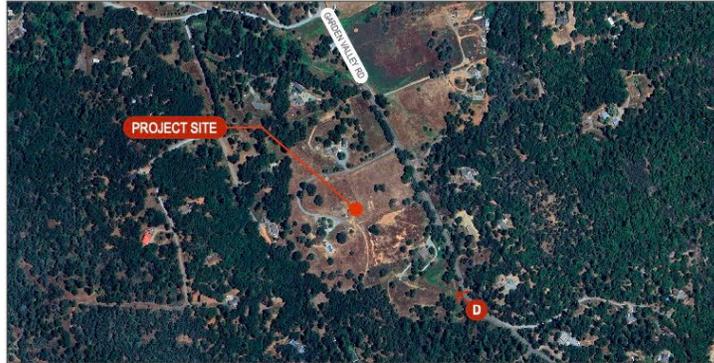
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Garden Valley Rd: Looking West

Photo Simulations

AERIAL MAP



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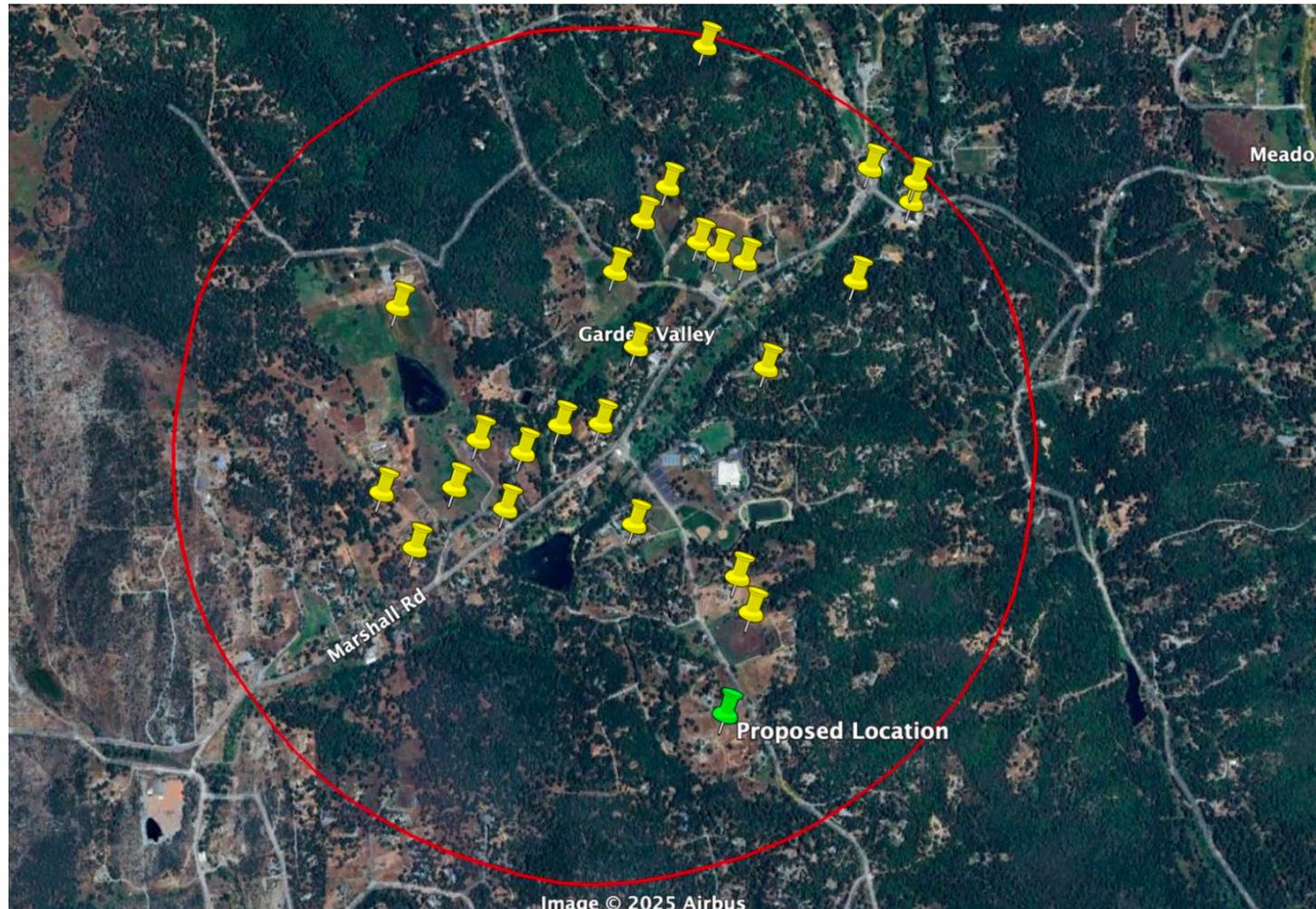


PROPOSED



Alternative Sites

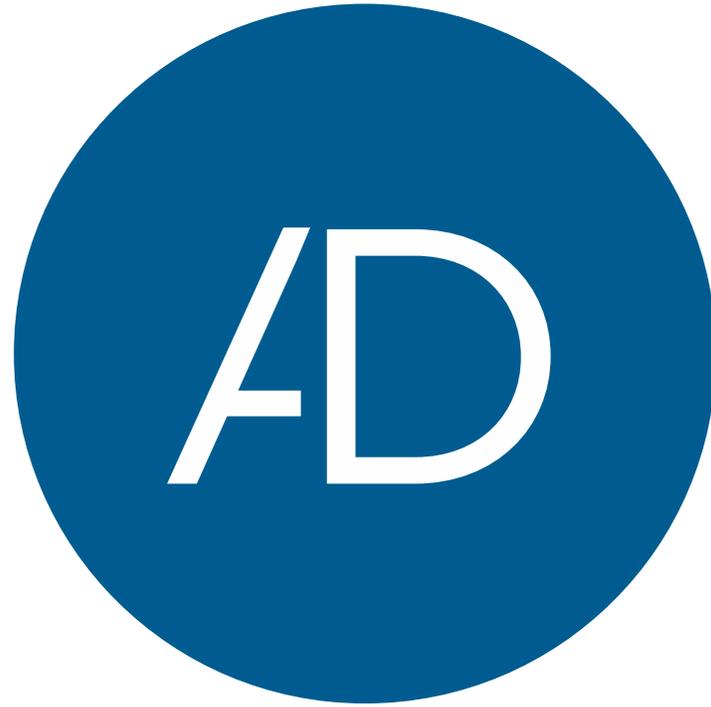
All alternate locations for a new facility were thoroughly assessed and disqualified.



Radio Frequency Emissions Report

Study Results

For a person anywhere at ground, the maximum RF exposure level due to the proposed T-Mobile operation, including the contribution of the microwave dish, is calculated to be 0.045 mW/cm^2 , which is 5.3% of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of any nearby building^s is 2.9% of the public exposure limit. It should be noted that these results include several “worst-case” assumptions and therefore are expected to overstate actual power density levels from the proposed operation.



Thank you.