

Verizon Wireless

Jackpine Wireless Facility

**Ponderosa Rd. North of Meder Road,
Shingle Springs, CA 95682**



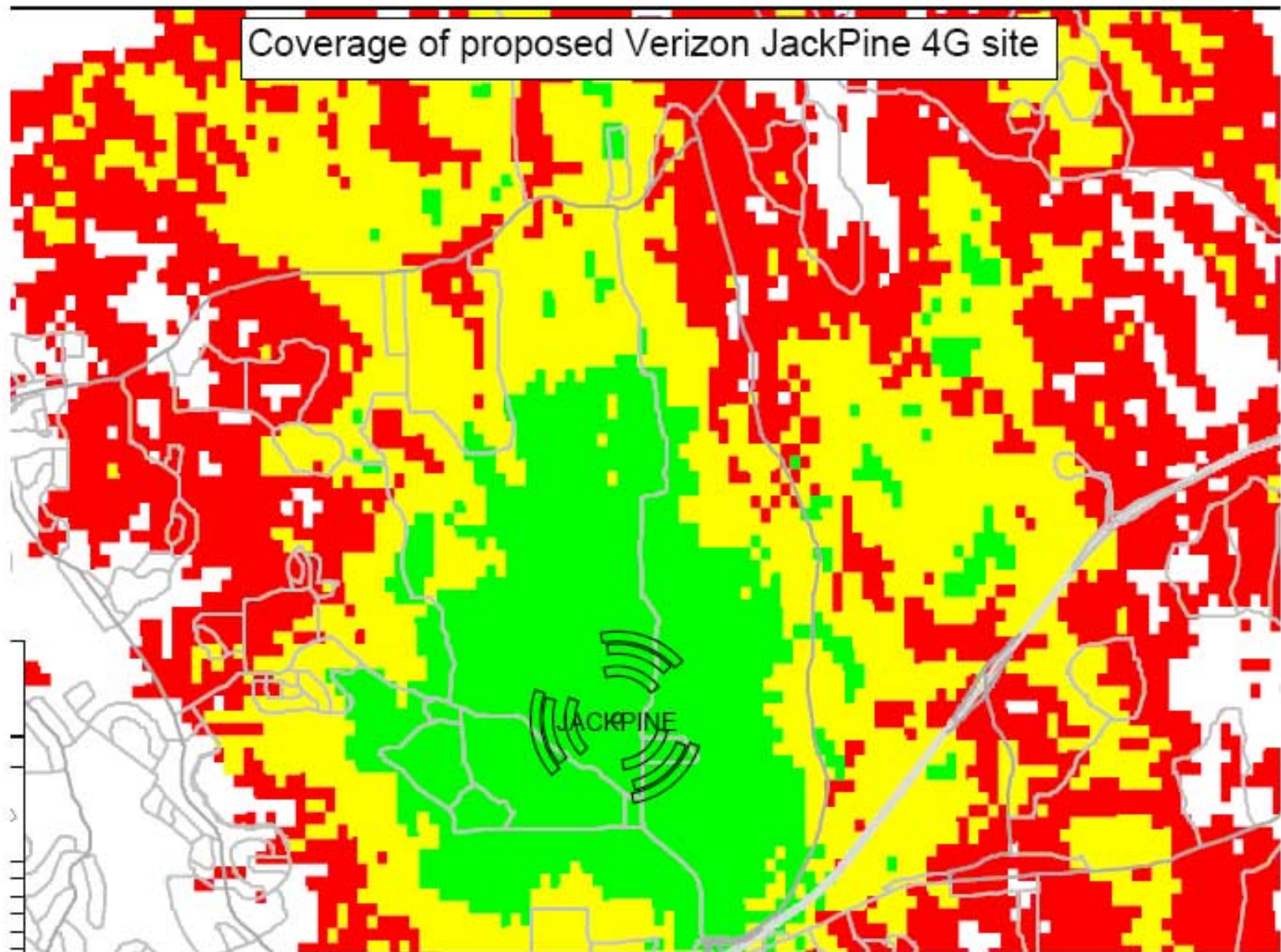
RF Site Engineering

RF Technical Site Justification:

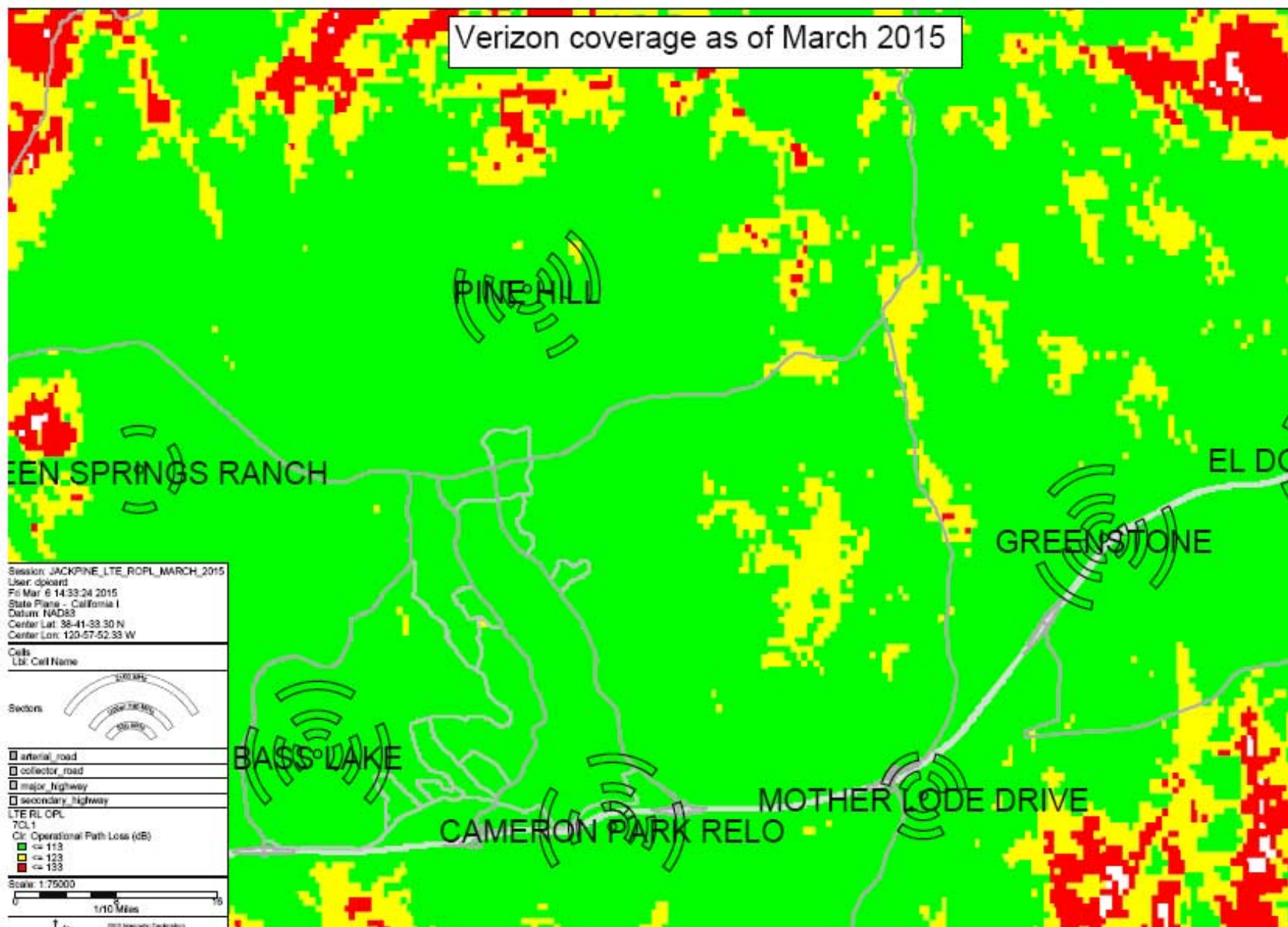
This proposed search area was deemed necessary by Verizon's RF Engineers to meet the capacity and some coverage demands of the rural residential properties in the Shingle Springs community surrounding Ponderosa High School. The sloping terrains in this area reduce a line of site option and limit the ability for placing a 4g compatible solution.

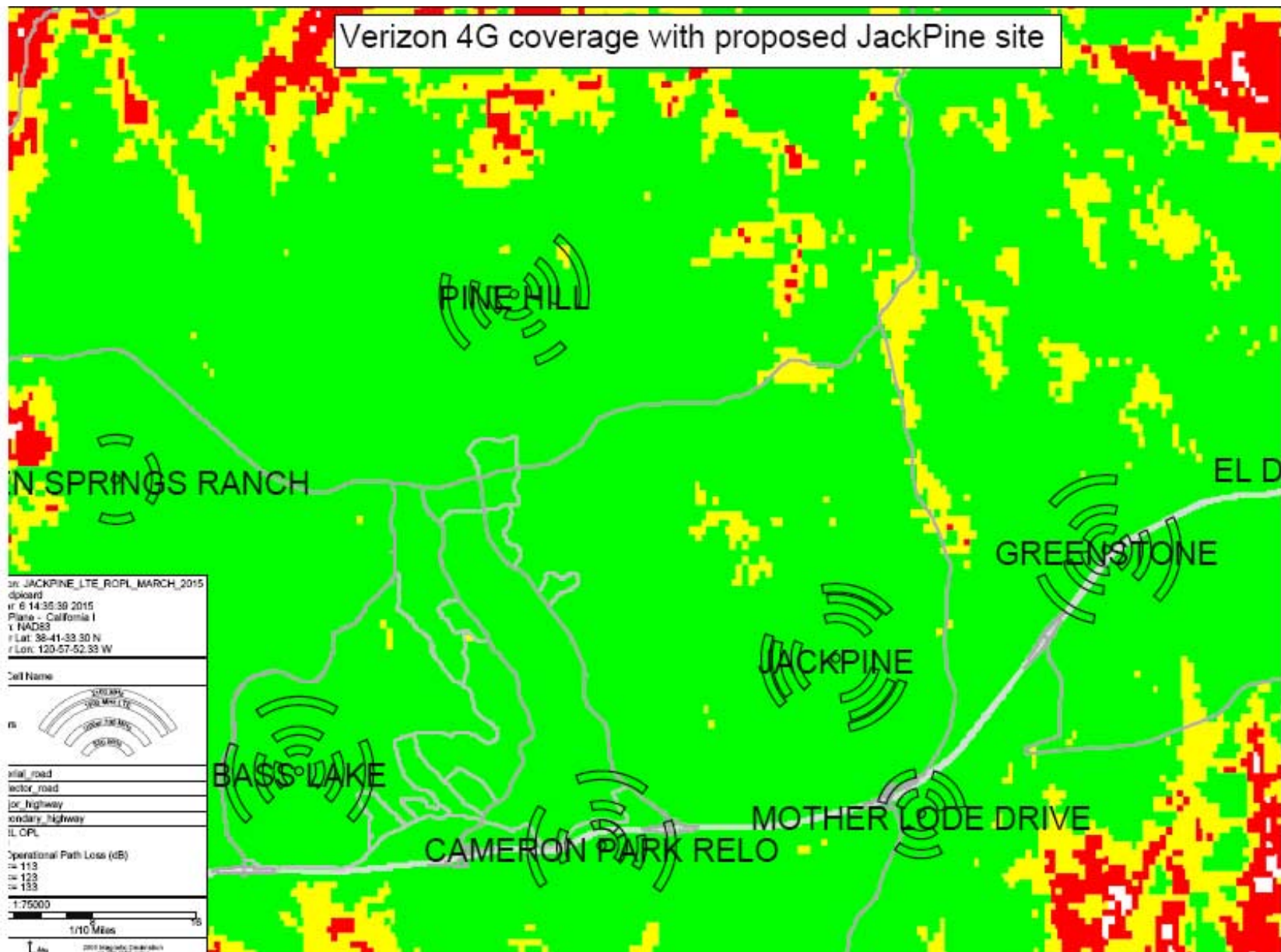
The existing system is becoming overwhelmed by uses that are enhanced with 4G operational attributes. These require far more capacity than simple phone usage with the additional abilities to make, document downloads, greater storage and higher data capacity use overall. The only way to overcome capacity loss is by placing a new facility to fulfill the weakened signal.

Coverage of proposed Verizon JackPine 4G site



Verizon coverage as of March 2015





Professional Engineering EME study results = 2%

- **Study Results**
- For a person anywhere at ground, the maximum RF exposure level due to the proposed Verizon
- operation is calculated to be 0.020 mW/cm², which is 2.0% of the applicable public exposure limit.
- The maximum calculated level at the second-floor elevation of any nearby residence* is 0.74% 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.
- * Located at least 140 feet away, based on photographs from Google Maps.
- **Verizon Wireless • Proposed Base Station (Site No. 285368 “Jackpine”)**
- **Ponderosa Road • Shingle Springs, California**
- HOYA

The proposed facility will have very limited visual impact

View from Jackpine Rd. and Ponderosa Rd.



View from Meder road just west of Ponderosa Rd.





Motherload site

Proposed Jackpine site

Response to opposition letter

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

Summary

- Verizon followed a proper due diligence process to establish their proposed facility. Our current candidate was selected after careful consideration of all potential property collocation , existing structure and property opportunities.
- Verizon's site location is at substantial distances from any neighboring residence.
- The proposed site is not in a view shed from any arterial roadway and will have little to no impact.
- Verizon's proposed site is well camouflaged and simulations prove it will blend well within a densely tree 'd backdrop.
- Verizon's proposed site will provide a much needed community infrastructure that will enhance existing services and expand the 4g functional capabilities.
- The proposed Facility was certified by a professional EME engineer and it was determined that the site was compliant with findings that were 1.6% of the General public EME.
- The decision to approve this project would comply with all County general requirements and meet the county standards outlined in ordinance sec. 130.14.210. relative to Wireless Communication Facilities.