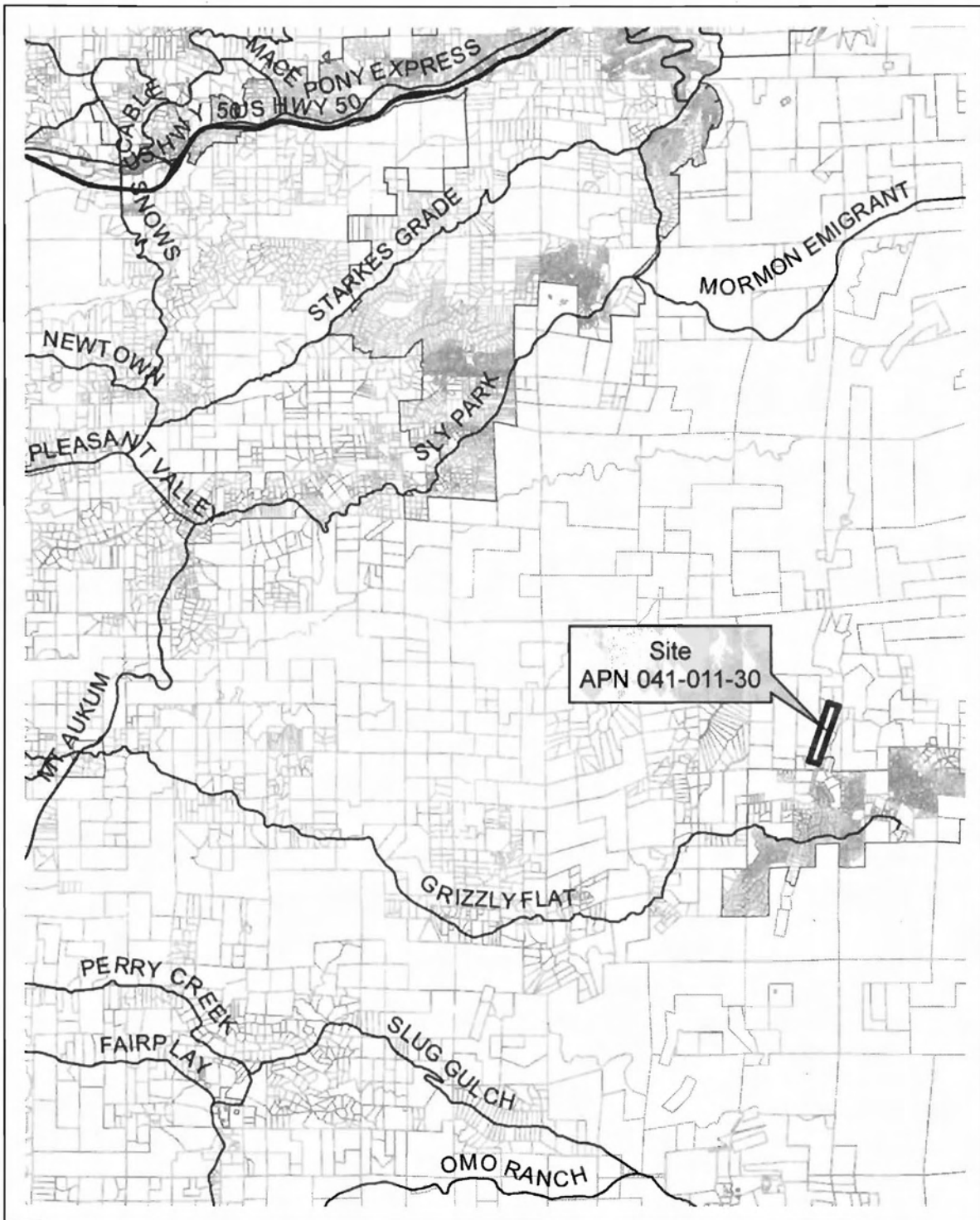




File No. S15-0008

Location Map

Omo Ranch Verizon Wireless

0 1 2 4 Miles

APPROVED
EL DORADO COUNTY
PLANNING COMMISSION



DATE October 22, 2015

BY Roger Trout/cmt
EXECUTIVE SECRETARY

Exhibit A

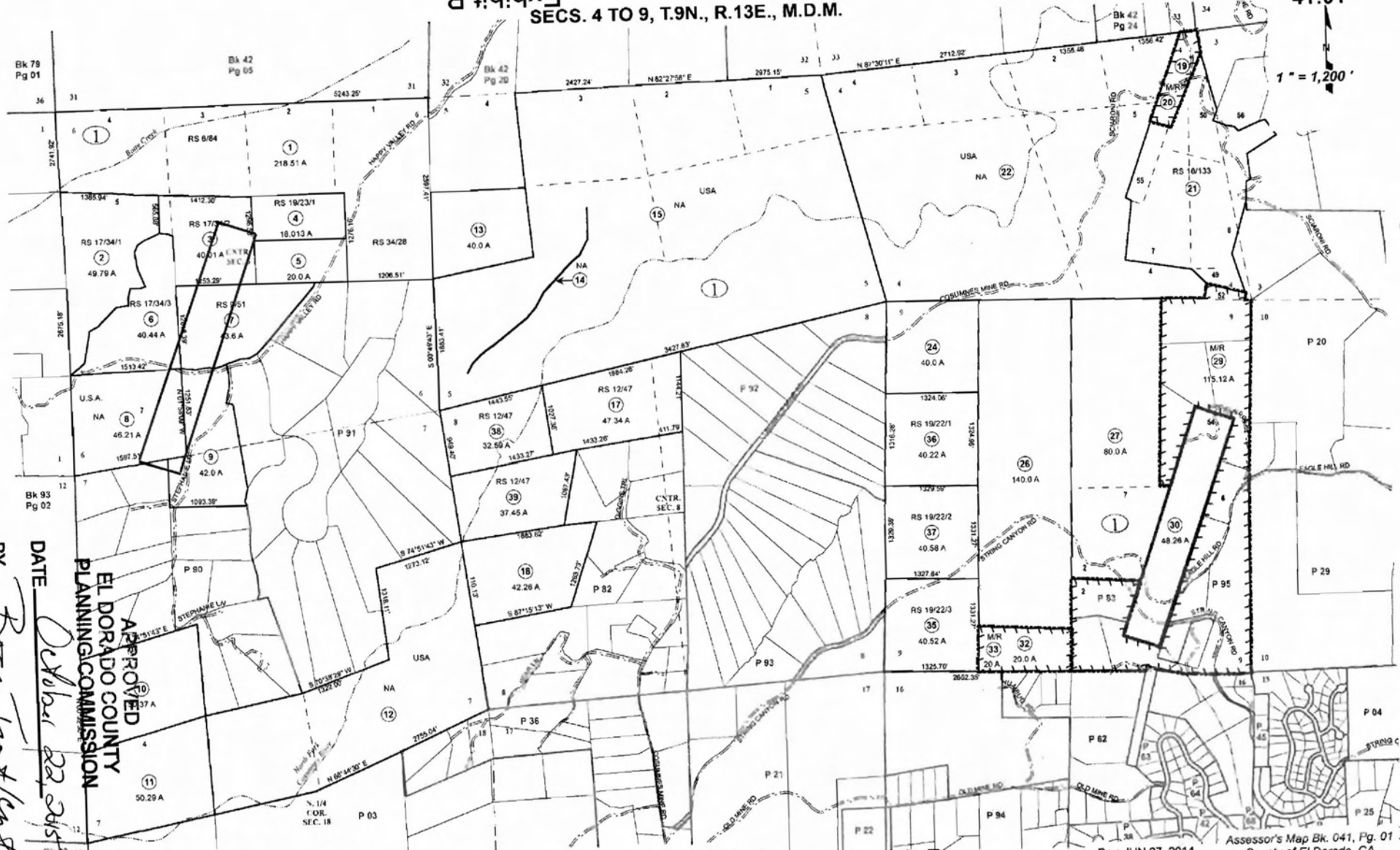
15-1146 D 1 of 31

Exhibit B

SECS. 4 TO 9, T.9N., R.13E., M.D.M.

41:01

1" = 1,200'



DATE October 22, 2015
 BY Roger J. Jant
 EXECUTIVE SECRETARY

THIS MAP IS NOT A SURVEY. It is prepared by the El Dorado Co. Assessor's Office for assessment purposes only. Area calculations and characteristics are not guaranteed. Users should verify items such as dimensions and acreage.

Acreages Are Estimates

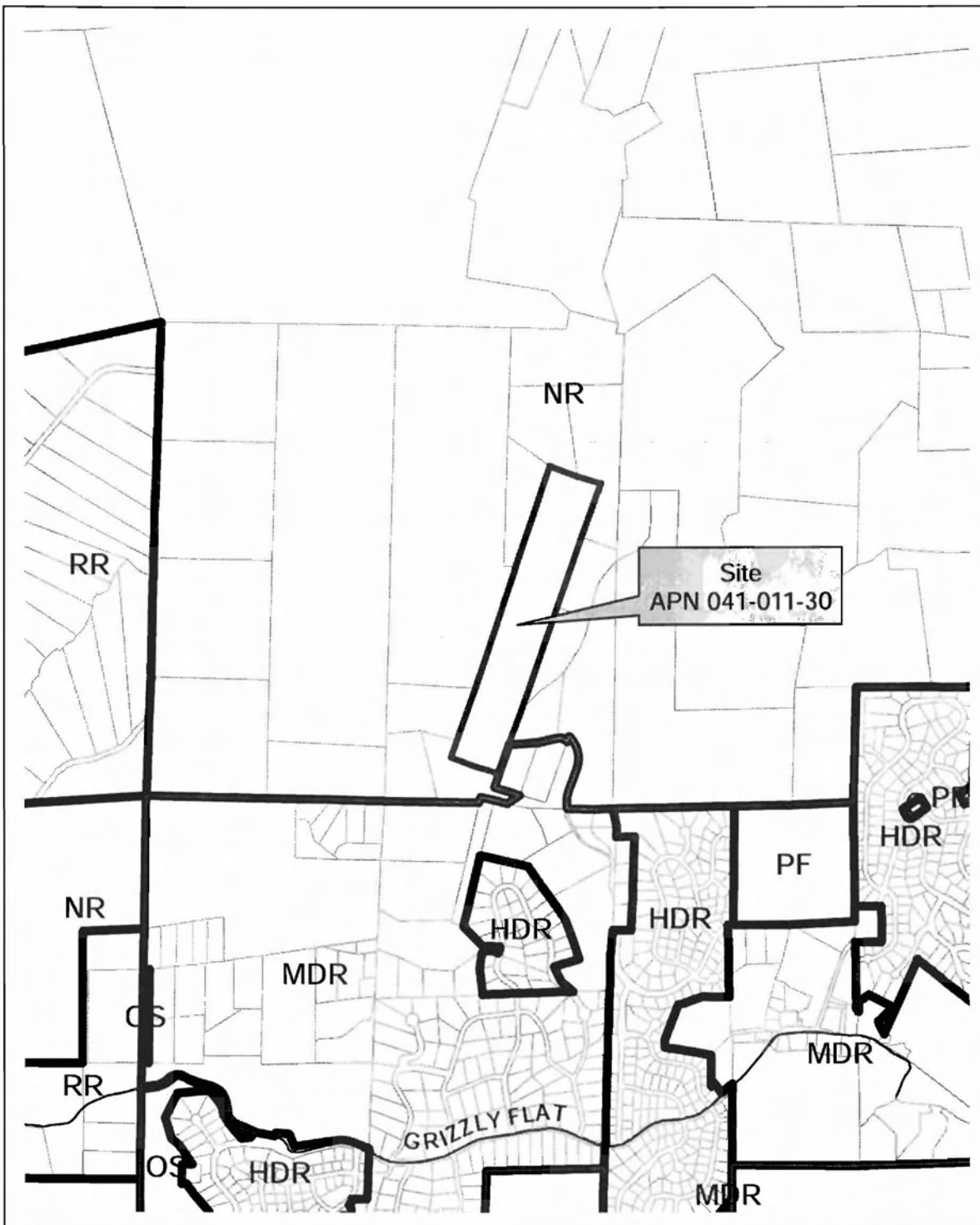
Adjacent Map Pages Shown in Grey Text
 Assessor's Block Numbers Shown in Ellipses
 Assessor's Parcel Numbers Shown in Circles

Exhibit B

Rev. JUN 27, 2014

Assessor's Map Bk. 041, Pg. 01
 County of El Dorado, CA

15-1146 D 2 of 31



File No. S15-0008
 General Plan Land Use Map
 Omo Ranch Verizon Wireless

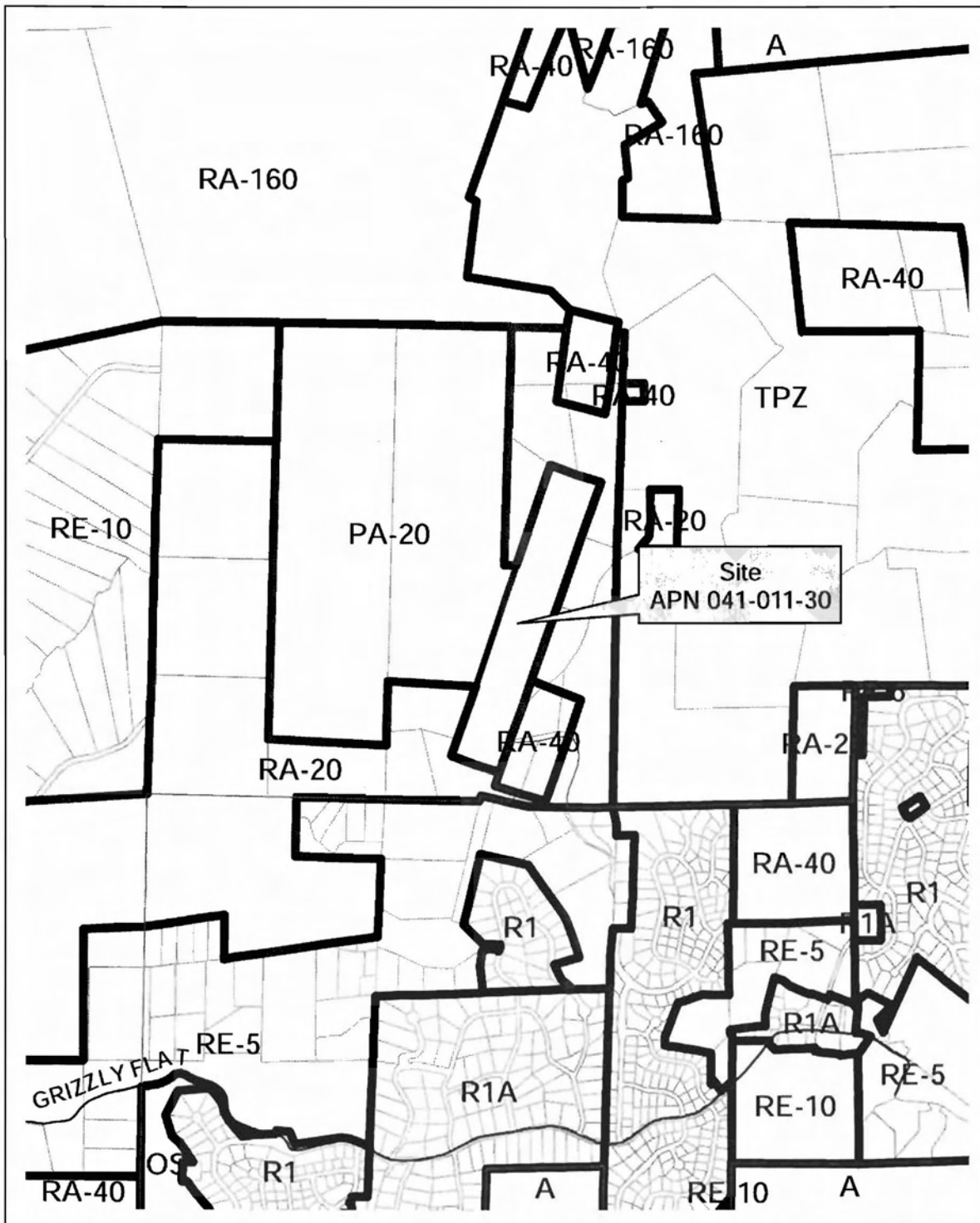
APPROVED
 EL DORADO COUNTY
 PLANNING COMMISSION

DATE October 22, 2015

BY Roger Trout/Int
 EXECUTIVE SECRETARY

Exhibit C

15-1146 D 3 of 31



File No. S15-0008

Zoning Map

Omo Ranch Verizon Wireless

0 0.125 0.25 0.5 Miles

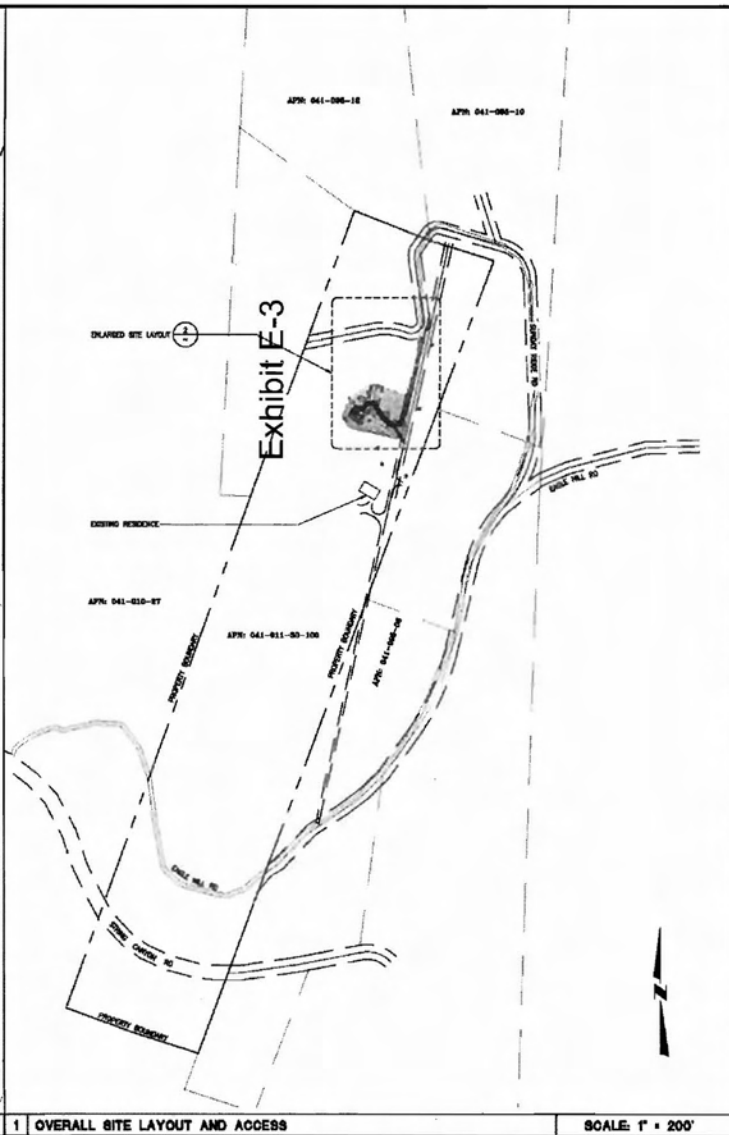
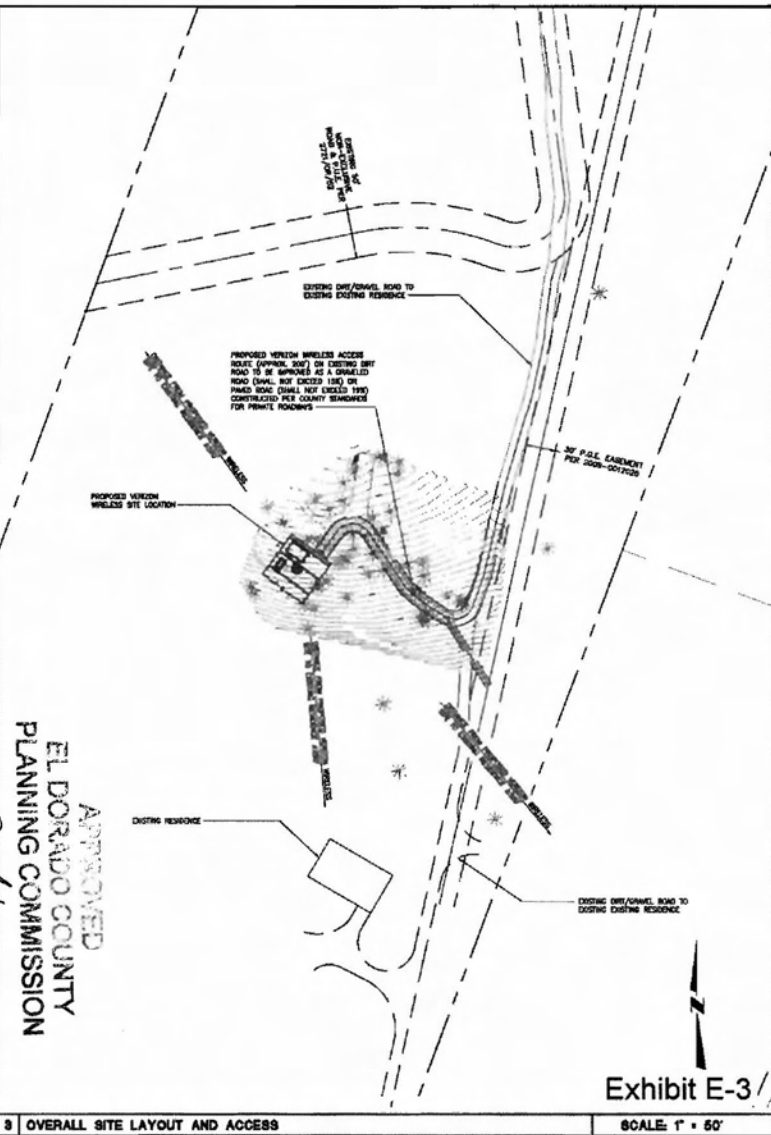
APPROVED
EL DORADO COUNTY
PLANNING COMMISSION

DATE October 22, 2015

BY Roger Trout
EXECUTIVE SECRETARY

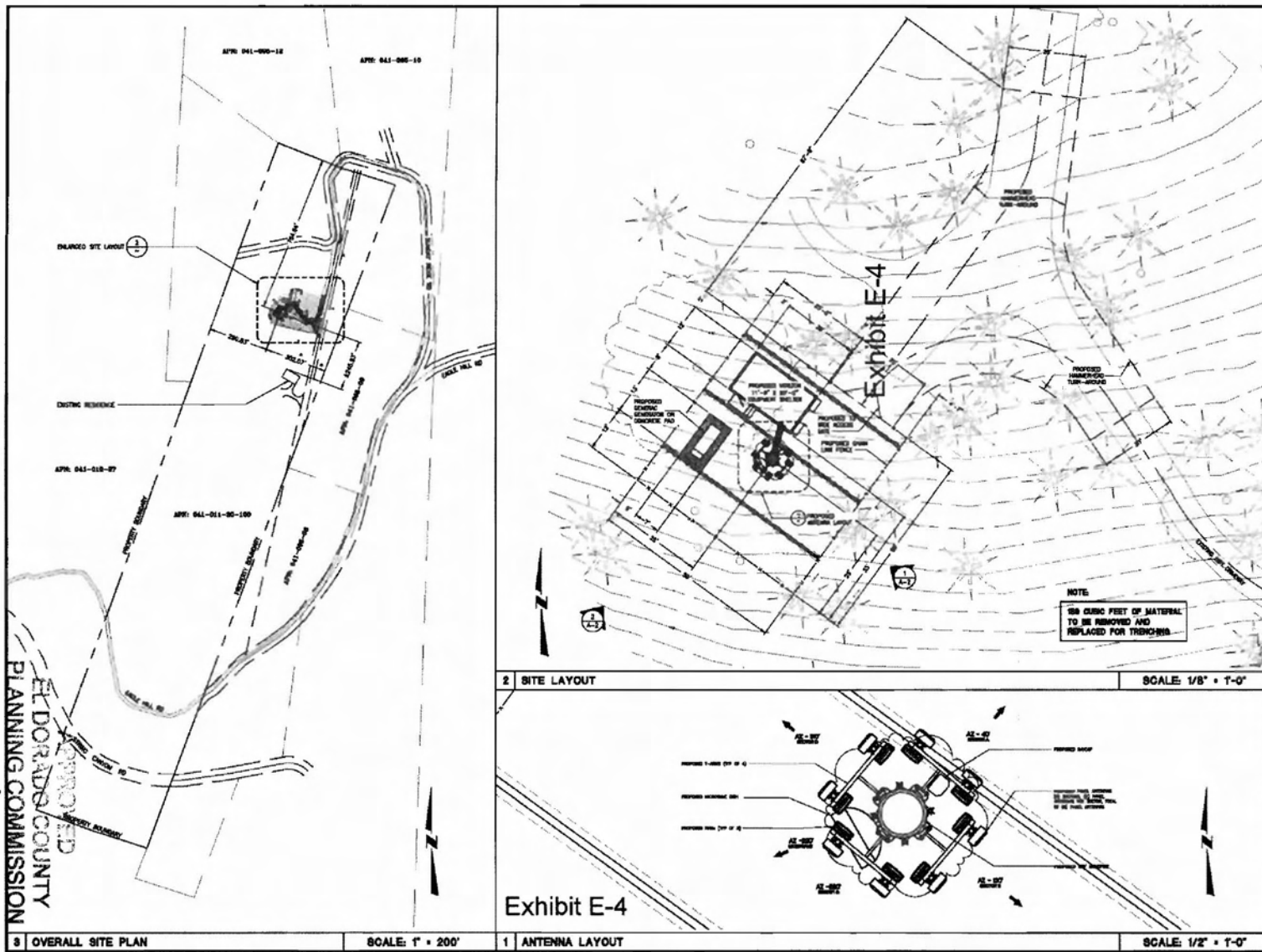


DATE October 22, 2015
 BY Rosemary
 EXECUTIVE SECRETARY

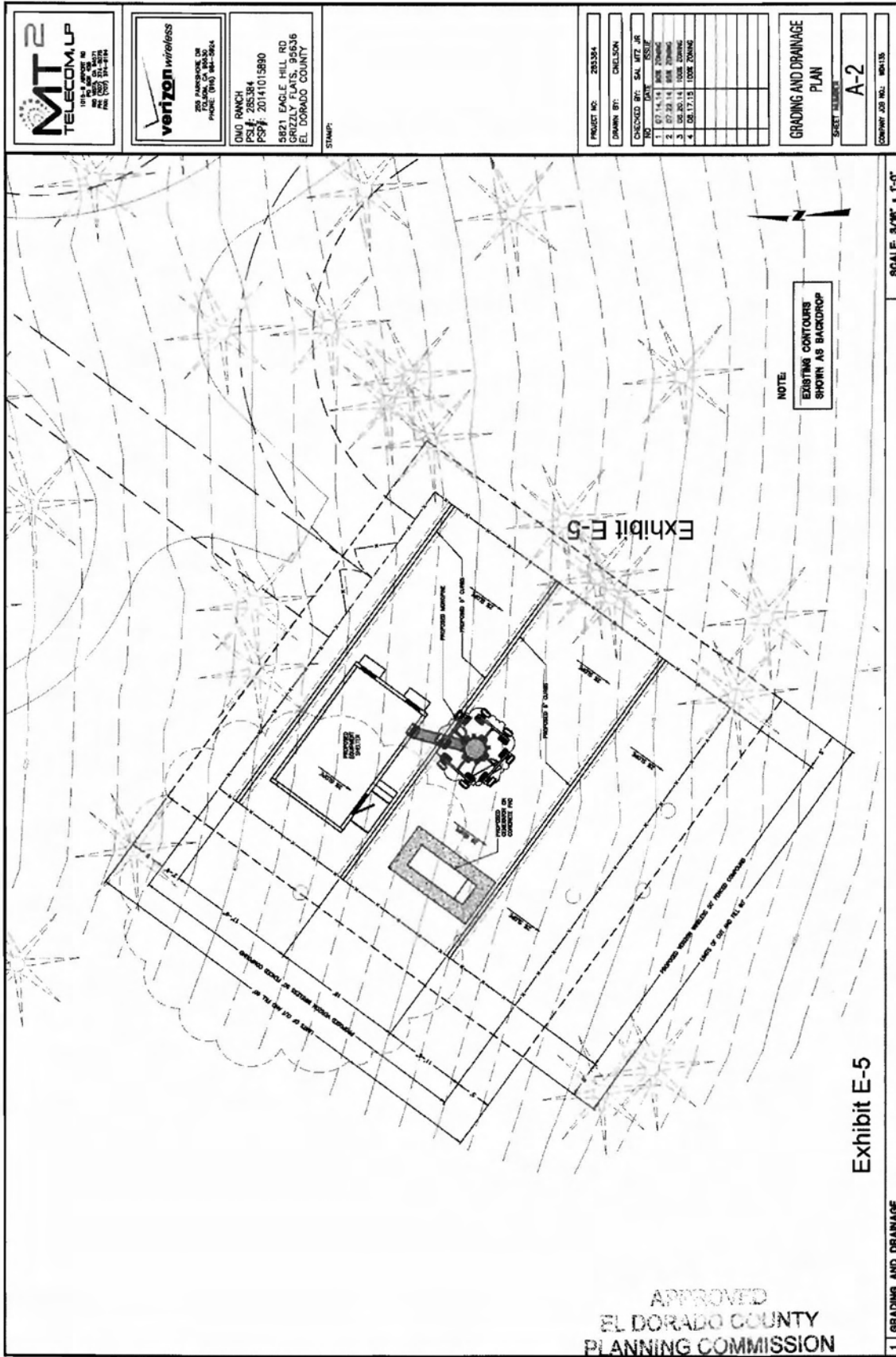


 1010-B AVENUE RD PO BOX 408 95036, CA 95036 TEL: (925) 241-9715 FAX: (925) 274-9154		
 255 PARKS-ONE DR FOLSOM, CA 95630 PHONE: (916) 884-1924		
OMO RANCH PSL#: 285384 PSP#: 20141015890 5821 EAGLE HILL RD GRIZZLY FLATS, 95636 EL DORADO COUNTY		
STAMP:		
PROJECT NO:	285384	
DRAWN BY:	CNELSON	
CHECKED BY:	SAL MTZ JR	
NO.	DATE	ISSUE
1	07.14.14	BASE ZONING
2	07.22.14	USE ZONING
3	08.20.14	100% ZONING
4	08.17.15	100% ZONING
OVERALL AND ENLARGED SITE LAYOUT AND ACCESS		
SHEET NUMBER A-0		
COMPANY JOB NO.: W04135		

DATE October 22, 2015
 BY Roger Lind
 EXECUTIVE SECRETARY



MT² TELECOM, LP 1015-B AVENUE RD PO BOX 408 80 WESLEY, CA 94571 TEL: (925) 441-9070 FAX: (925) 574-8104		
verizon wireless 250 PARKSIDE DR FOLSOM, CA 95630 PHONE: (916) 984-5924		
OMO RANCH PSL#: 285384 PSP#: 20141015890 5821 EAGLE HILL RD GRIZZLY FLATS, 95636 EL DORADO COUNTY		
STAMP:		
PROJECT NO:	285384	
DRAWN BY:	CHELSON	
CHECKED BY:	SAL MTZ JR	
NO	DATE	ISSUE
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2	07.22.14	ISSUE ZONING
3	08.20.14	ISSUE ZONING
4	08.17.15	ISSUE ZONING
OVERALL SITE PLAN, SITE LAYOUT AND ANTENNA LAYOUT		
SHEET NUMBER		
A-1		
COMPANY JOB NO.: W54135		



MT²
TELECOM, LP
1000 N. 10TH ST.
SUITE 100
DENVER, CO 80202
PHONE: (303) 733-1111
FAX: (303) 733-1112

verizon wireless
200 JAMES STREET, SUITE 200
DENVER, CO 80202
PHONE: (303) 944-5624

DMO RANCH
PSL# 285384
PSP# 20141015890
5821 EAGLE HILL RD
GRIZZLY FLATS, 80536
EL DORADO COUNTY

STAMP:

PROJECT NO: 285384

DRAWN BY: CHILSON

CHECKED BY: SAL MITCHELL

DATE: 05/17/15

NO.	DATE	DESCRIPTION
1	07/14/14	ADD ZONING
2	07/28/14	ADD ZONING
3	08/20/14	100% DRAINAGE
4	08/17/15	100% DRAINAGE

GRADING AND DRAINAGE
PLAN

SHEET NUMBER
A-2

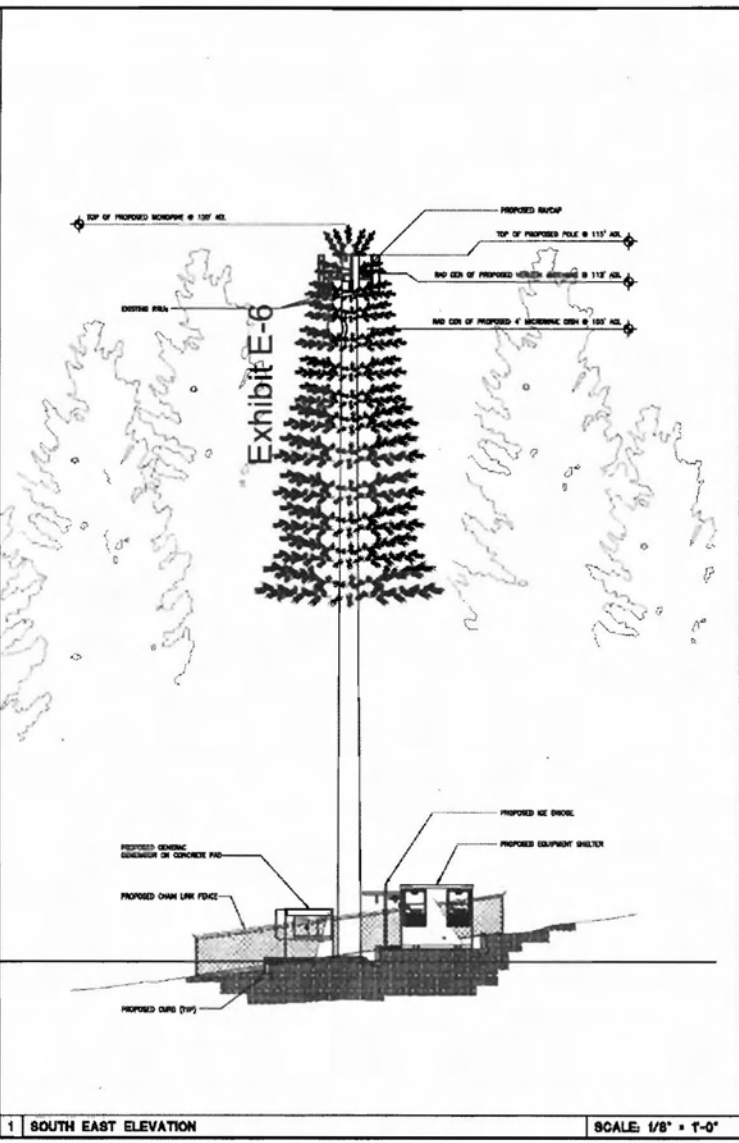
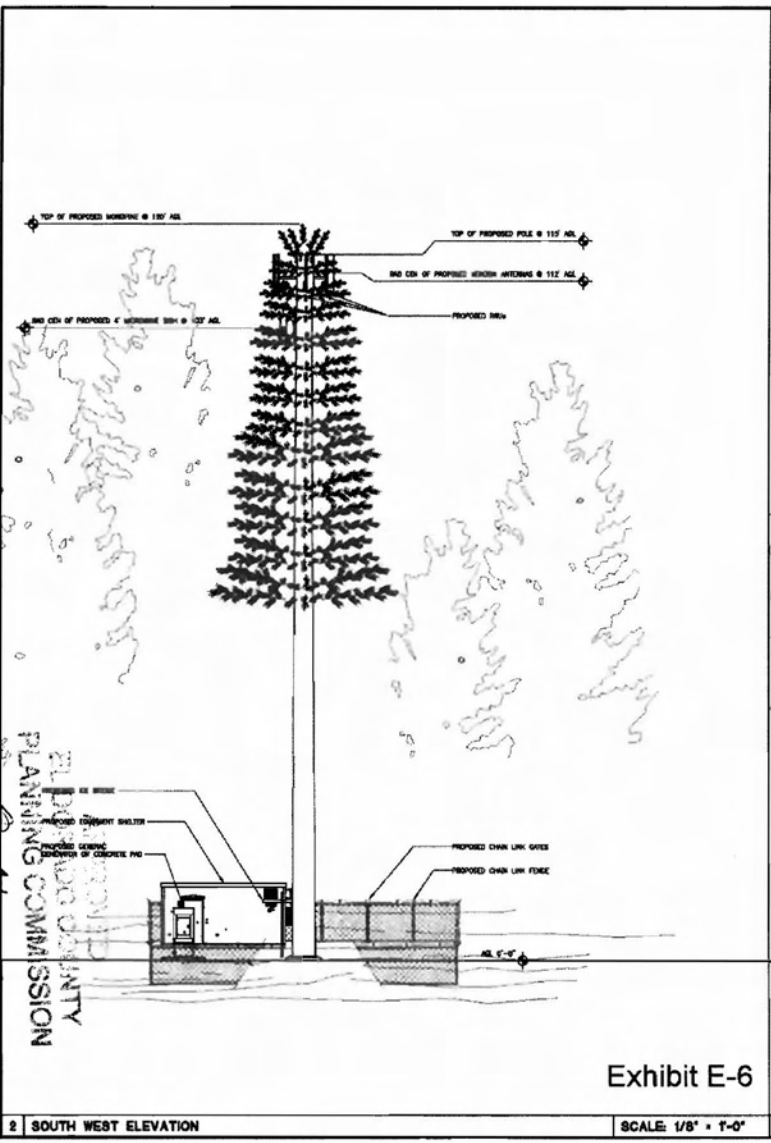
CONTRACT JOB NO.: 04-115

SCALE: 3/8" = 1'-0"

APPROVED
EL DORADO COUNTY
PLANNING COMMISSION

DATE: October 22, 2015
BY: Roger T. Smith
EXECUTIVE SECRETARY

DATE October 22, 2015
 BY Forrest Westlund
 EXHIBIT SECRETARY



MT² TELECOM, LP
 1015 N. WINTER RD
 PO BOX 418
 FAYETTE, AR 72715
 TEL: (501) 374-8078
 FAX: (501) 374-8194

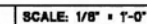
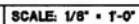
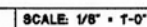
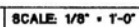
verizon wireless
 258 PARKSHORE DR
 FAYETTE, AR 72715
 PHONE: (501) 384-5824

OMO RANCH
 PSL#: 285384
 PSP#: 20141015890
 5821 EAGLE HILL RD
 GRIZZLY FLATS, 95636
 EL DORADO COUNTY

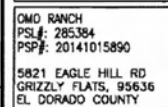
STAMP:

PROJECT NO: 285384
 DRAWN BY: CHNELSON
 CHECKED BY: SAL MTT JR
 NO DATE REVIEW
 1 07.14.14 50% DESIGN
 2 07.22.14 65% DESIGN
 3 08.20.14 100% DESIGN
 4 08.17.15 100% DESIGN

ELEVATIONS
 SHEET NUMBER
A-3
 COMPANY JOB NO.: 104135



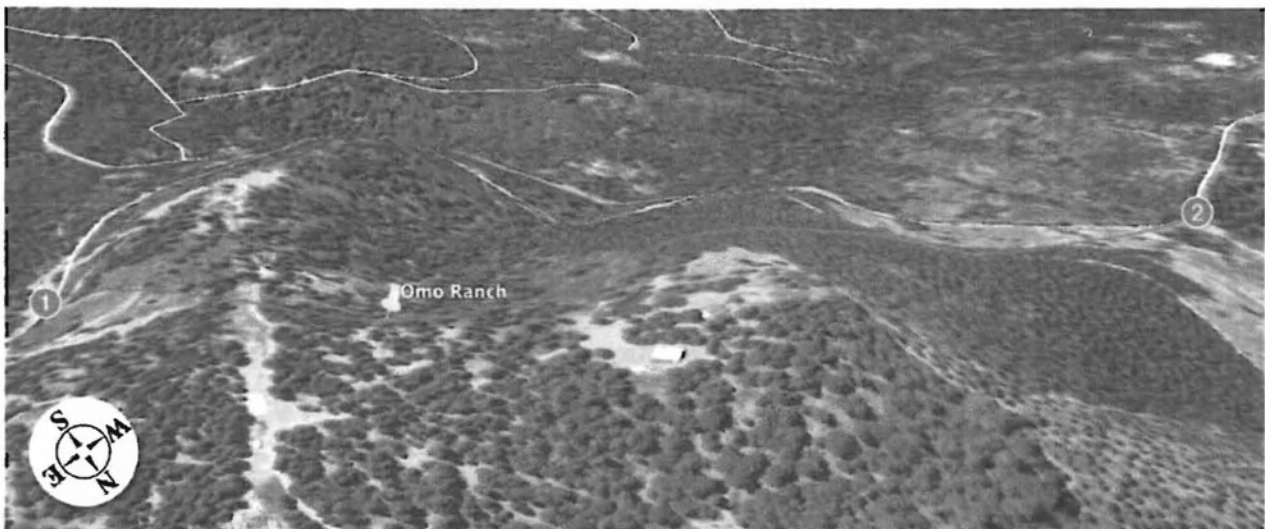
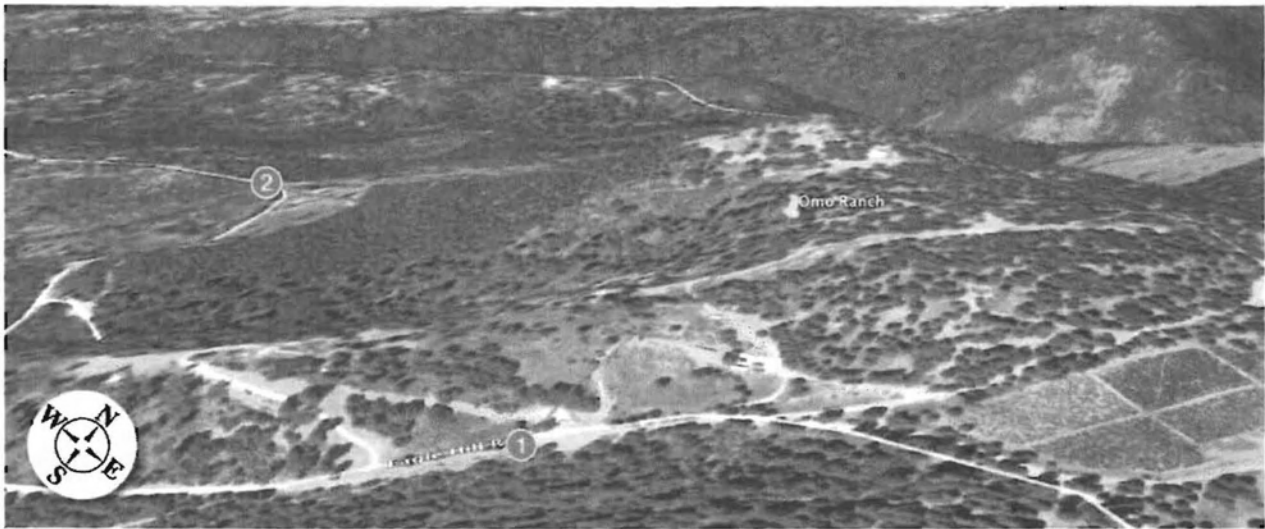
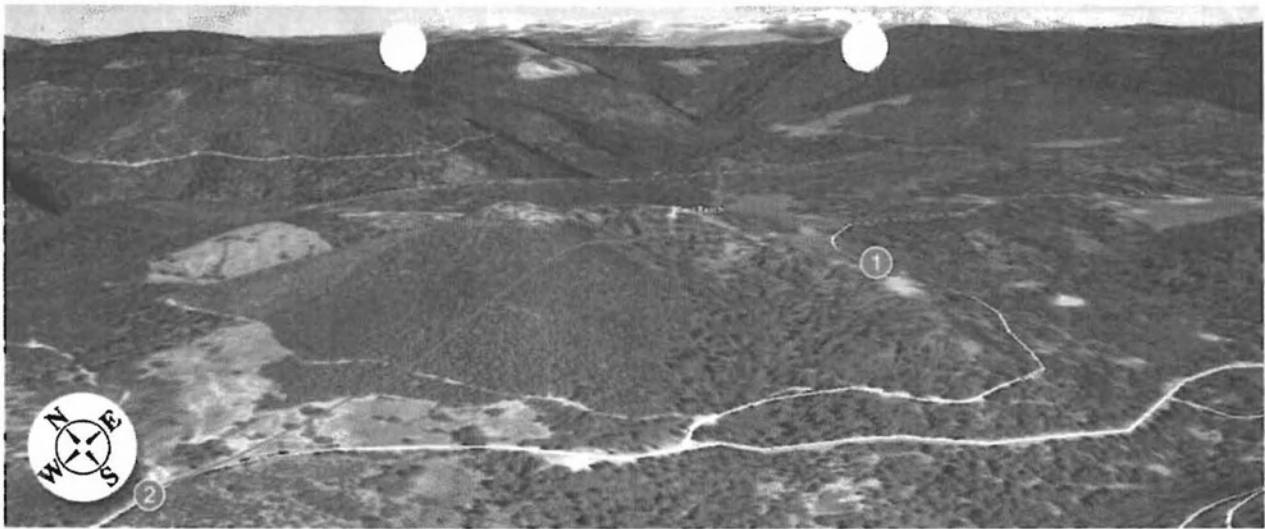
SCALE: 1/8" = 1'-0"



STAMP:

SHEET NUMBER
A-4
COMPANY JOB NO.: WD4138

15-1146 D 11 of 31





verizon
wireless

Ormo Ranch

Site # 285384

APPROVED
EL DORADO COUNTY
PLANNING COMMISSION

Aerial Map

5821 Eagle Hill Road
Grizzly Flats, CA 95636

4/1/15

DATE October 22, 2015

Applied Imagination 510 914-0500

BY Rozanne Trout/Cmt 15-1146 D 13 of 31
EXECUTIVE SECRETARY



verizon wireless

Omo Ranch

Site # 285384

EL DORADO COUNTY
PLANNING COMMISSION

Looking Northwest from Eagle Hill Road

4/1/15

5821 Eagle Hill Road
Grizzly Flats, CA 95636

DATE

October 22, 2015

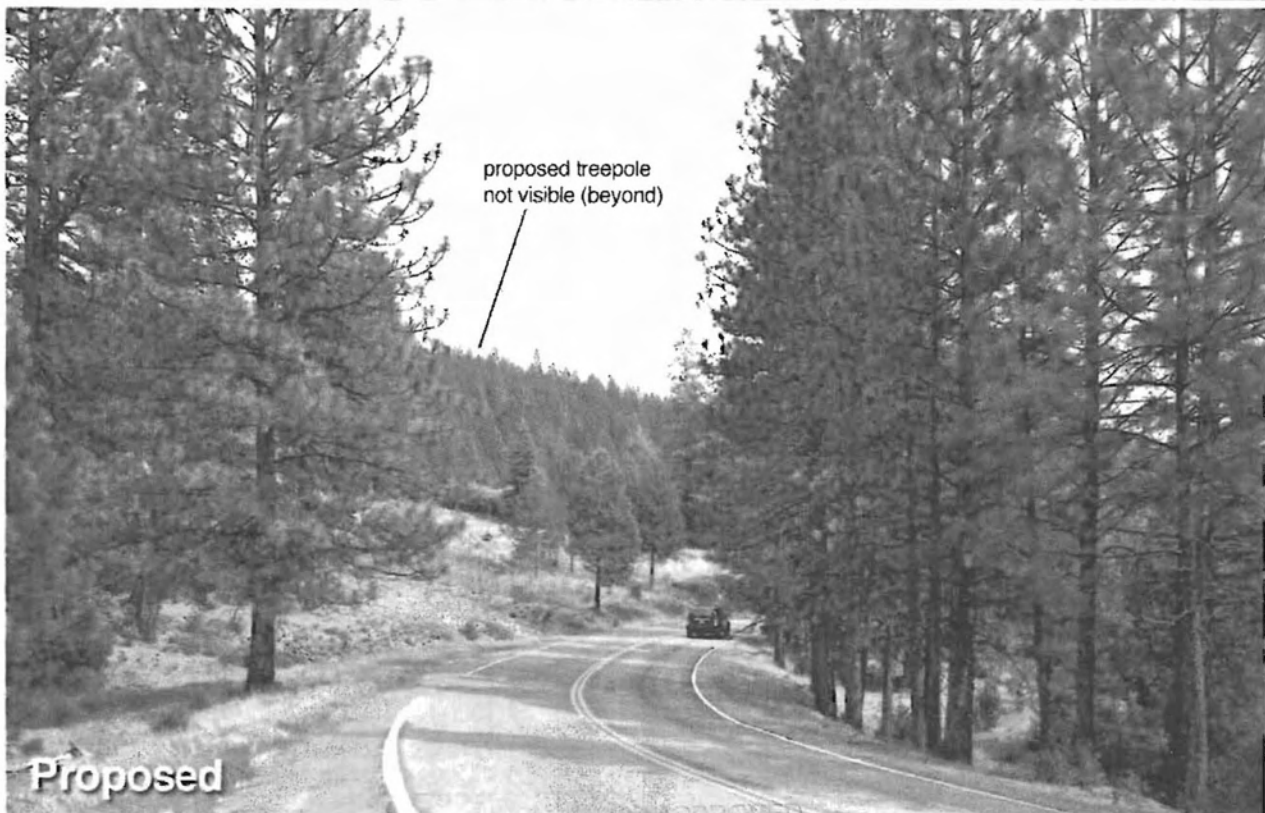
View #1

Applied Imagination 510 914-0500

BY

Roger Trout/Cmt
EXECUTIVE SECRETARY

15-1146 D 14 of 31



verizon
wireless

Omo Ranch

Site # 285384

APPROVED
EL DORADO COUNTY
PLANNING COMMISSION

Looking East from String Canyon Road

4/1/15

5821 Eagle Hill Road
Grizzly Flats, CA 95636

DATE October 22, 2015

View #2
Applied Imagination 510 914-0500

BY Rozanne H. Cant
EXECUTIVE SECRETARY

15-1146 D 15 of 31

Hi Alan,

The site is buried in the woods near the top of Eagle Hill. I measured typical tree heights in the area and they range from 65-90'+. There is a small chance of partial visibility of the top of the 120' treepole from Eagle Hill Road but otherwise views are blocked by the trees in the foreground. The nearest through road is String Canyon and there is only one spot on the road with a view of Eagle Hill. The treepole is on the hill beyond the ridge in the foreground so there is no visibility. There is no public visual impact for this site.
Please review.

Gordon Murray
Applied Imagination
510 914-0500
gmurray@fotosimulation.com

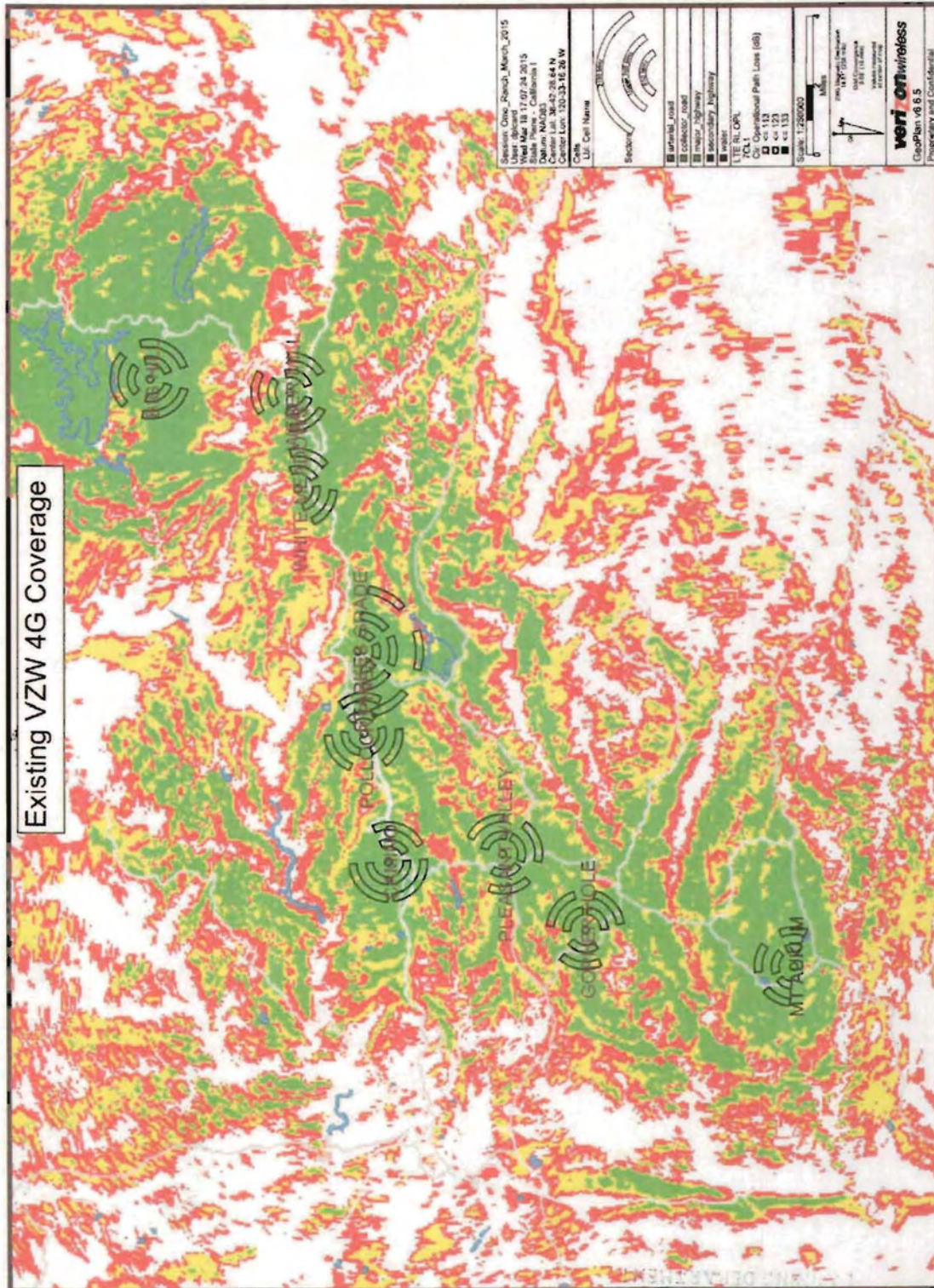
RECEIVED
PLANNING DEPARTMENT
OCT 22 2015

APPROVED
EL DORADO COUNTY
PLANNING COMMISSION

DATE October 22, 2015
BY Roger Trout/Cmt
EXECUTIVE SECRETARY

S 15-0008

Exhibit G-1

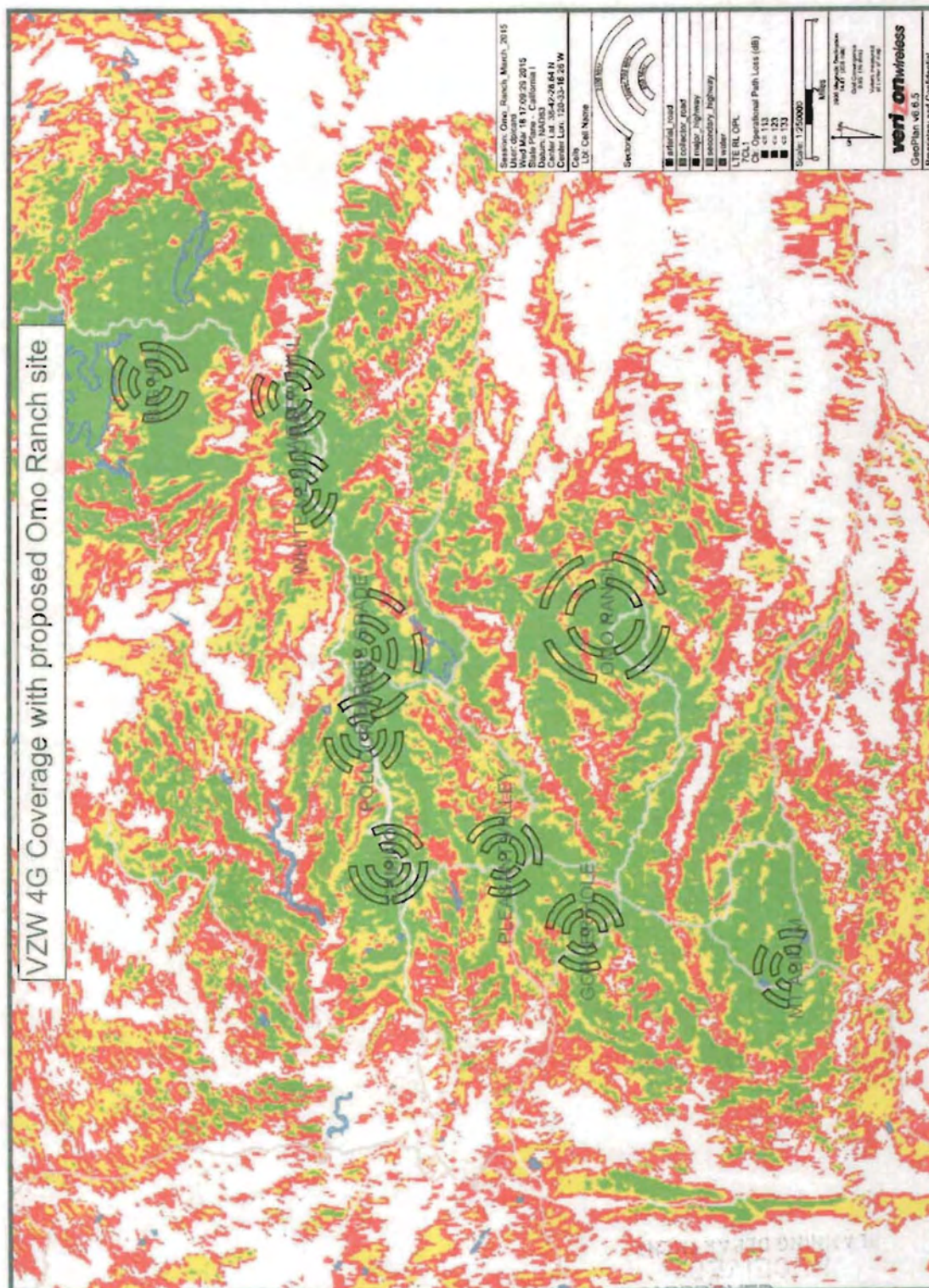


APPROVED
EL DORADO COUNTY
PLANNING COMMISSION
DATE October 22, 2015
BY Roger Trout / Cmst
EXECUTIVE SECRETARY

Exhibit G-1

S 15-0008

Exhibit G-2



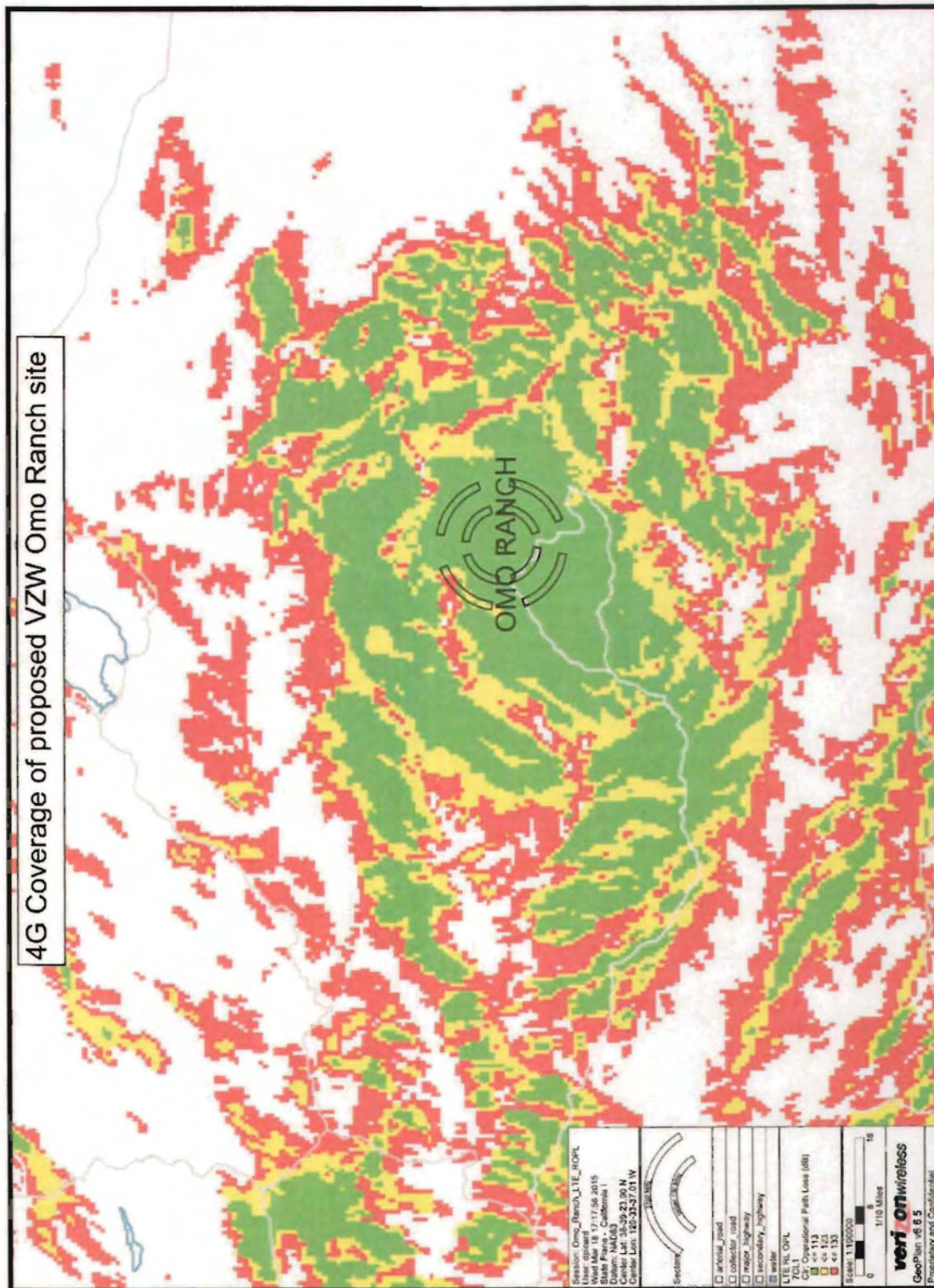
APPROVED
EL DORADO COUNTY
PLANNING COMMISSION

DATE: October 22, 2015
BY: Roger Trout/Kmt
EXECUTIVE SECRETARY

Exhibit G-2

\$ 15-0008

Exhibit G-3



APPROVED
EL DORADO COUNTY
PLANNING COMMISSION
DATE October 22, 2015
BY Roger Trout/Cmt
EXECUTIVE SECRETARY

Exhibit G-3

S 15-0008

15-1146 D 19 of 31

Human Exposure to RF Energy Compliance Report

Prepared for:
Mr. Aaron DeLaO
On Air, LLC

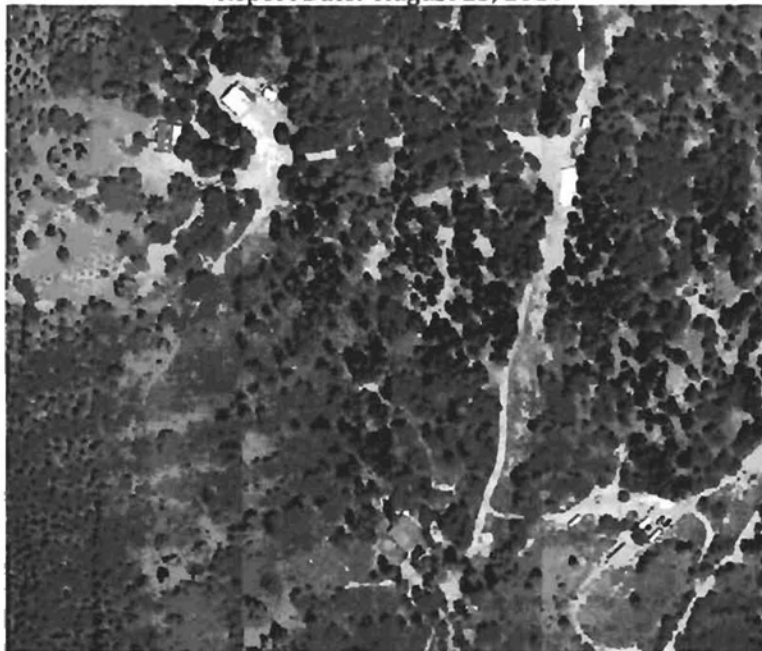
6999 Brayton Ave.
Citrus Heights, CA 95621

(916) 792-8686 Mobile

For the benefit of Verizon Wireless

Omo Ranch
Site Location 285384
5821 Eagle Hill Road
Grizzly Flats, CA 95636

Report Date: August 25, 2014



RF Compliance Services, Inc.
3628 24th Street
San Francisco, CA 94110

Prepared By
Chris Goldsmith
Chris@RadioFrequencyCompliance.com
415-948-6790

RECEIVED
PLANNING DEPARTMENT

EL DORADO COUNTY
PLANNING COMMISSION
DATE October 22, 2015
BY Roger Trout/Cmt
COUNTY SECRETARY

Exhibit H

Exhibit H

S 15-0008

15-1146 D 20 of 31

Table of Contents

Introduction	1
Site Description.....	1
Compliance Summary	2
Mitigation, Signage, and Barrier Recommendations	2
Regulatory Framework.....	3
Predictive Modeling.....	5
Limitations	8
Engineering Statement	8
Appendix A: Radio Frequency Health and Safety Guidelines.....	9

Introduction

Radio Frequency Compliance Services, Inc., has been contracted to conduct a human exposure to radio frequency energy study for the benefit of Verizon Wireless. The Federal Communications Commission (FCC) requires licensees to ensure that people are not exposed to radiofrequency electromagnetic energy power densities in excess of the applicable maximum permitted exposure (MPE) limit.

This study uses data supplied by Verizon Wireless or its representatives to determine the human exposure to RF energy from the subject site.

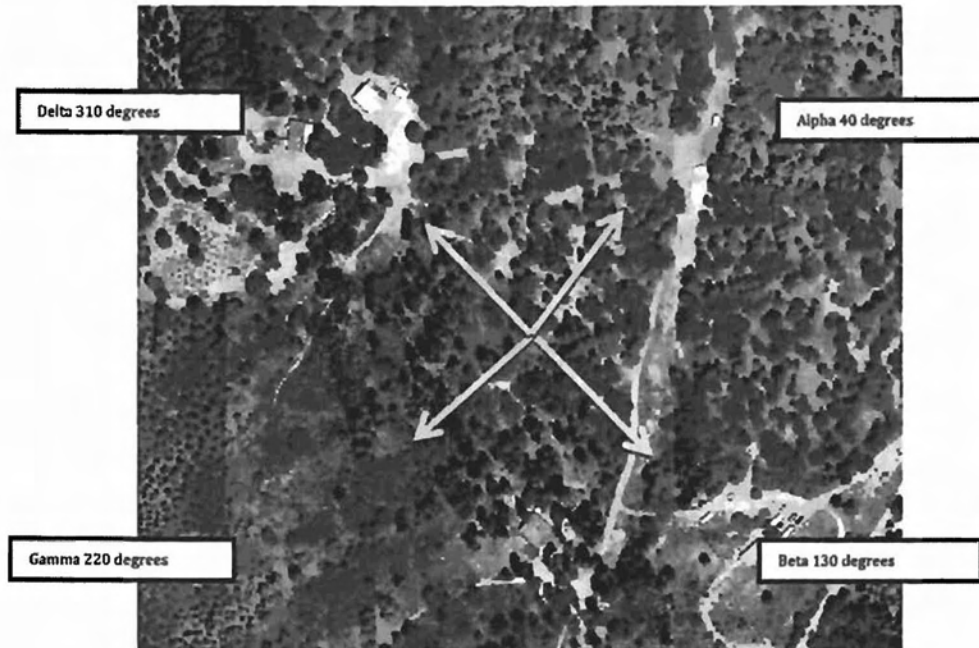
The following documents were supplied by Verizon Wireless or its representatives. This information is considered to be correct and was used in the creation of this report:

1. Drawings – PSL285384 OMO RANCH 95ZD 072514
2. Power Statement – OMO RANCH EME Data Sheet 8/18/2014

Site Description

The subject site is Omo Ranch, Site Location 285384, located at 5821 Eagle Hill Road, Grizzly Flats, CA 95636. The proposed site is the new installation of a four sector array with two antennas per sector mounted at 109 feet above ground level on a new 120 foot mono-pole. (Mounting heights for the purpose of RF energy compliance reporting is measured to the bottom of the emitter, not the antenna center line as is common on construction drawings.)

The site is located in a rural area. There are one and two story buildings 440 feet to the North West and 330 feet to the South, well outside of the RF energy study area.



Compliance Summary

This site COMPLIES with Radiofrequency Radiation Exposure Limits of 47 CFR § 1.1307(b)(3) and 1.1310.

Predicted power density of the Verizon proposed installation and all co-located antennas at ground level surrounding the site, the point of closest public access, is 1.6% of the general public MPE limit.

Mitigation, Signage, and Barrier Recommendations

No mitigation is necessary.

RF Notice signs should be placed on the fence line around the perimeter of the site.

Barriers are not required at this site.

Regulatory Framework

The FCC requires licensees to ensure that persons are not exposed to radiofrequency electromagnetic energy power densities in excess of the applicable MPE limit. Applicable FCC rules are found at 47 CFR § 1.1307(b) (3) and 1.1310.

The FCC rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure.

The General Population / Uncontrolled Exposure Limit applies to human exposure to RF fields when the general public is exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public always fall under this category when exposure is not employment-related.¹

The Occupational/Controlled Exposure Limit applies to human exposure to RF fields when persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. These exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above General Population / Uncontrolled limits as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate action.²

The FCC's maximum permissible exposure (MPE) is defined as the rms and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with an acceptable safety factor levels.³

The FCC's MPE limits for the General Population/Uncontrolled and Occupational/Controlled environments are given in Table 1 and Table 2, respectively. Figure 1 is a graph of both MPEs as functions of frequency.

¹ Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, OET Bulletin 65, Edition 97-01, August 1997, Page 3

² Ibid, Page 4

³ Ibid, Page 3

Table 1: MPE Limits for General Population/Uncontrolled Environment⁴

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time for E ² , H ² , or S (Minutes)
0.3 – 1.34	614	1.63	(100)*	30
1.34 – 30	824/f	2.19/f	(180/f ²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	--	--	f/1500	30
1500 – 100,000	--	--	1.0	30

f = frequency in MHz

* = Plane wave equivalent power density

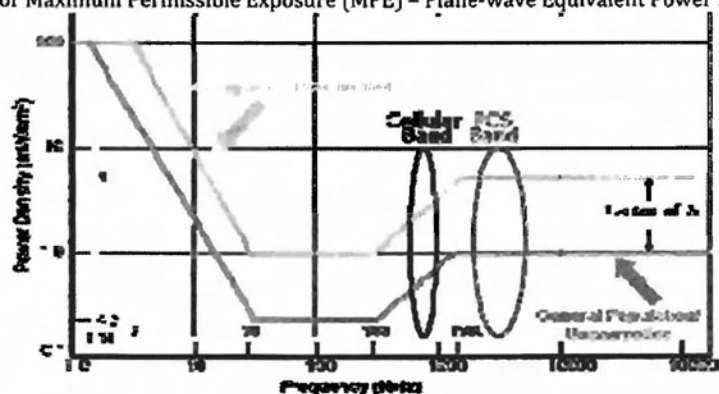
Table 2: MPE Limits for Occupational/Controlled Environment⁵

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time for E ² , H ² , or S (Minutes)
0.3 – 3.0	614	1.63	(100)*	6
3.0 – 30	1842/f	4.89/f	(900/f ²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	--	--	f/300	6
1500 – 100,000	--	--	5.0	6

f = frequency in MHz

* = Plane wave equivalent power density

FCC Limits for Maximum Permissible Exposure (MPE) – Plane-wave Equivalent Power Density⁶



Maximum Permissible Exposure (MPE) is defined in OET 65 as being 100% of the exposure limit for the situation or tier of permissible exposure. Anyone may be granted safe access to areas less than or equal to 100% of the General Population MPE Limit. For persons who have been properly trained and meet the definition of being Occupational Personnel, access to areas at or below 100% of the Occupational MPE limit may be granted. Access to areas predicted to exceed 100% of the

⁴ Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, OET Bulletin 65, Edition 97-01, August 1997, Page 67

⁵ Ibid, Page 67

⁶ Ibid, Page 68

Occupational MPE limit may be granted to persons properly trained and who use real-time power density measurement Personal Protective Equipment, such as a RF Personal Monitor.

FCC rules allow for access to areas that exceed of 100% of the applicable limit, if time-averaged exposure is not exceeded. This clause requires very carefully measured, consistent exposure and is difficult to incorporate into practical compliance policies. This report and any recommendations herein assume continuous exposure at or below the applicable MPE limit. Time average is not employed to determine compliance.

For any area in excess of 100% General Population MPE, access controls must be put in place and maintained to prevent the general population from gaining access. Occupational Personnel trained in RF safety and equipped with personal protective equipment designed for safe work in the vicinity of RF may be granted access, subject to other site security requirements. Access controls may be imposed by locked doors, physical barriers, or alarms to notify the individual and site management. Controls may include administrative policies and procedures requiring personal protective equipment, proof of RF training to obtain site access cards, presentation of appropriate RF awareness training certifications to security personnel or other measures designed to prevent uncontrolled access.

Following these FCC requirements, predictive modeling was performed to evaluate power density resulting from client transmitters as a percentage of the power density MPE limit applicable to their transmitters. If additional carriers and other wireless installations are identified and included, their technical and operating parameters have been assumed and are intended to be conservative and consistent with the higher range of operating parameters.

In field and on site measurements typically show power density values significantly lower than predicted values. The purpose of predictive analysis is to depict the worst case potential for exposure such that compliance with the analysis assures a high safety margin.

Predictive Modeling

The RoofView software program is used to calculate the predicted power density throughout the subject area in both the general public and occupational MPE in accordance with the FCC's OET bulletin 65 "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation" dated August 1997. Spatially averaged power density is plotted based on the percentage of the applicable standard, as noted in the plots below.

Omo Ranch
 Site Location 285384
 5821 Eagle Hill Road
 Grizzly Flats, CA 95636

Antenna inventory and operating power

ID	Name	Freq	Power	Mfg	Model	X	Y	Z	Aper	Pt Dir
D1 850 1x	VzW	880.00000	113.3	ANDREW	SBNHH-1D65B	101.0	102.0	109.0	6.0	64.8;40
D1 700 LTE	VzW	746.00000	85.0	ANDREW	SBNHH-1D65B	102.0	101.0	109.0	6.0	69;40
D1 AWS LTE	VzW	2120.00000	113.3	ANDREW	SBNHH-1D65B	102.0	101.0	109.0	6.0	61.2;40
D2 850 1x	VzW	880.00000	113.3	ANDREW	SBNHH-1D65B	102.0	99.0	109.0	6.0	64.8;130
D2 700 LTE	VzW	746.00000	85.0	ANDREW	SBNHH-1D65B	101.0	98.0	109.0	6.0	69;130
D2 AWS LTE	VzW	2120.00000	113.3	ANDREW	SBNHH-1D65B	101.0	98.0	109.0	6.0	61.2;130
D3 850 1x	VzW	880.00000	113.3	ANDREW	SBNHH-1D65B	99.0	98.0	109.0	6.0	64.8;220
D3 700 LTE	VzW	746.00000	85.0	ANDREW	SBNHH-1D65B	98.0	99.0	109.0	6.0	69;220
D3 AWS LTE	VzW	2120.00000	113.3	ANDREW	SBNHH-1D65B	98.0	99.0	109.0	6.0	61.2;220
X1 850 1x	VzW	880.00000	113.3	ANDREW	SBNHH-1D65B	98.0	101.0	109.0	6.0	64.8;310
X1 700 LTE	VzW	746.00000	85.0	ANDREW	SBNHH-1D65B	99.0	102.0	109.0	6.0	69;310
X1 AWS LTE	VzW	2120.00000	113.3	ANDREW	SBNHH-1D65B	99.0	102.0	109.0	6.0	61.2;310

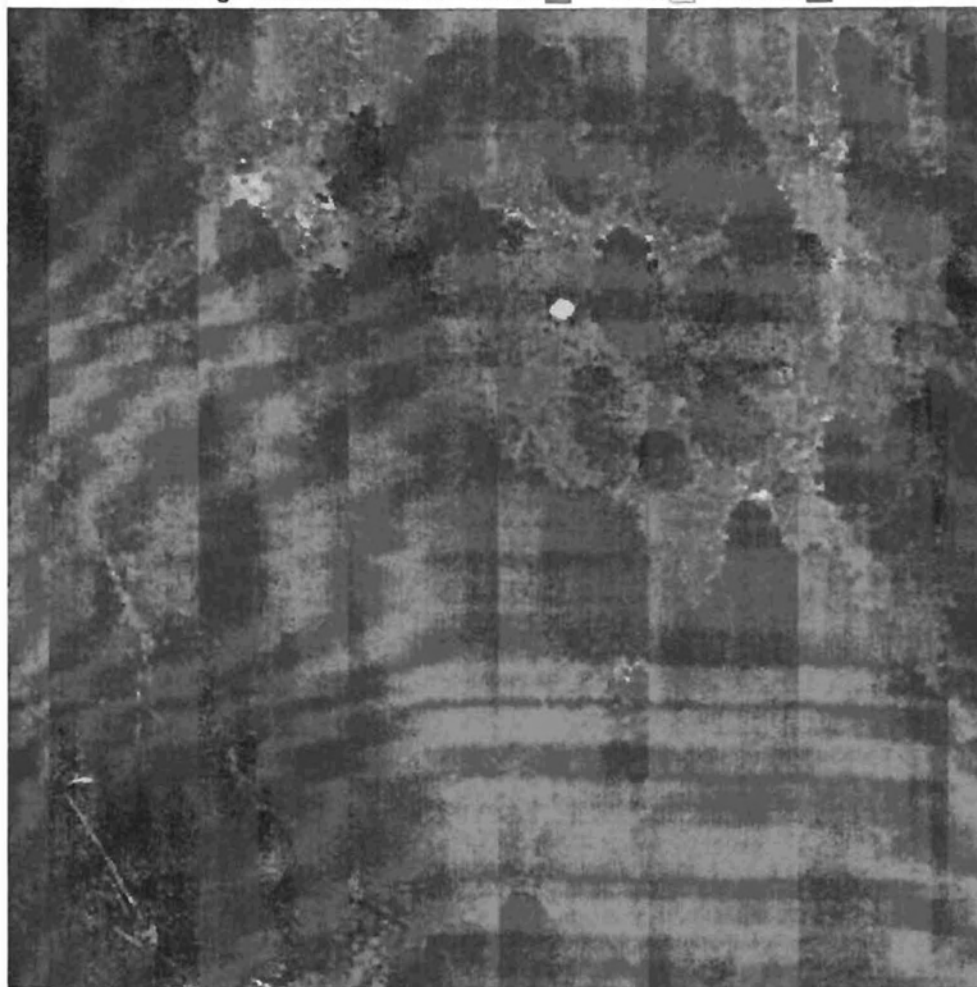
This table is extracted from RoofView for this project. Antenna and operating information for Verizon has been supplied by Verizon or its representatives. Operating information for co-located transmission facilities has been estimated based on generally accepted operating parameters.

Antenna Z position is to the bottom of the aperture, not the center line

Power is the net power, in Watts, to the antenna

Pt Dir is the beam width in degrees and the orientation

Percentage General Public MPE Limit ■ ≤ 20% ■ ≤ 100% ■ > 100%



Ground level with all antennas operating plotted with the **general public MPE limit**. All publically accessible areas around the subject site are within the general public limit. The maximum predicted power density at ground level is **1.6% of the general public MPE limit**.

Human Exposure to RF Energy
Compliance Report

Omo Ranch
Site Location 285384
5821 Eagle Hill Road
Grizzly Flats, CA 95636

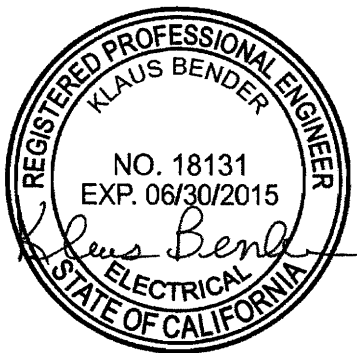
Report Date:
August 25, 2014

Limitations

This report was prepared in accordance with generally accepted practices based solely on the information provided by the client or its representatives. Observations made by Radio Frequency Compliance Services, or its contractors, are valid on the date of the observation. Changes to the site, the technical, or operating parameters may invalidate the findings of this report and should be brought to the attention of Radio Frequency Compliance Services, Inc. No warranty, expressed or implied, is made.

Engineering Statement

This work has been carried out under my direction and all statements are true and correct to best of my knowledge.



Klaus Bender
Registered Professional Engineer (Electrical)
State of California, 18131, Expires 2015-June-30
Date: 2014-June-19

Appendix A: Radio Frequency Health and Safety Guidelines

The FCC has established guidelines for human exposure to RF electromagnetic fields based on the work of the National Council on Radiation Protection and Measurements (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). The exposure guidelines are based on thresholds for known adverse effects and they incorporate a safety margin.

The FCC has established two tiers of limits, one for conditions under which the public may be exposed (general public exposure) and the other for exposure situations involving workers (occupational exposure). The limits, expressed as power density in mW/cm, vary based on the frequencies in use at the site. Typical cellular communications systems operate in two frequency bands referenced in the guidelines: 300 MHz to 1,500 MHz and 1,500 MHz to 100,000 MHz. Within those ranges, the general population limit varies from 0.2 mW/cm² to 1.0 mW/cm² and the occupational limit varies from 1.0 mW/cm² to 5.0 mW/cm². Power density can be predicted or measured in accordance with FCC guidelines.

The FCC has established exposure limits, not emissions limits, therefore areas must be accessible to the public or to workers. Restricting access is usually the simplest means of controlling exposure to areas where high RF levels may be present.

Areas within the general public limit

No restrictions on exposure exist for areas less than the general public limit. Those areas are safe for unlimited access by all persons.

Areas within the occupational limit

The general public must be restricted from accessing areas that exceed the general public limit. In general, these restrictions include fencing and locking out of unauthorized persons. Workers who are "aware of" and "exercise control over" their exposure meet the criteria for occupational exposure. Workers who meet these criteria may access areas that are within the occupational limit without restriction. Persons who are only "transient" visitors to the area, such as air conditioning technicians, etc., could also be considered to fall within the occupational criteria as long as they are "made aware" of their exposure and exercise control over their exposure.

Areas that exceed the occupational limit

The FCC guidelines allow for the calculation of a time averaged MPE limit that would permit workers who meet the criteria for occupational exposure to enter areas that exceed the absolute occupational limit for brief, specific time intervals. In practice, the application of time averaged exposure is difficult to implement and, therefore, access to areas that exceed the occupational limit is not recommended. If the

Human Exposure to RF Energy
Compliance Report

Omo Ranch
Site Location 285384
5821 Eagle Hill Road
Grizzly Flats, CA 95636

Report Date:
August 25, 2014

transmitters cannot be deactivated, the use of radiofrequency protective clothing may facilitate compliance with RF exposure guidelines.

Never touch an antenna that is energized.