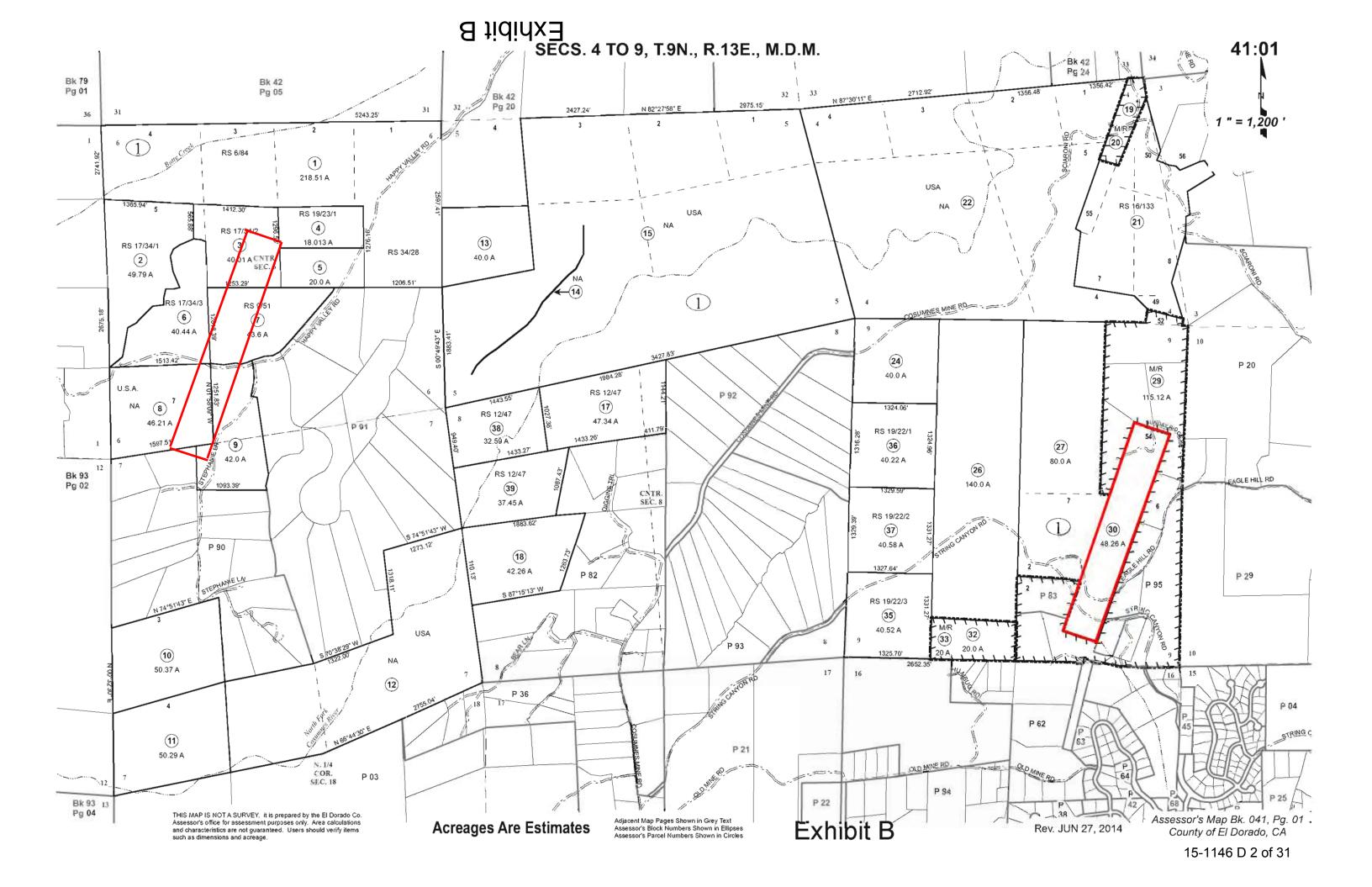
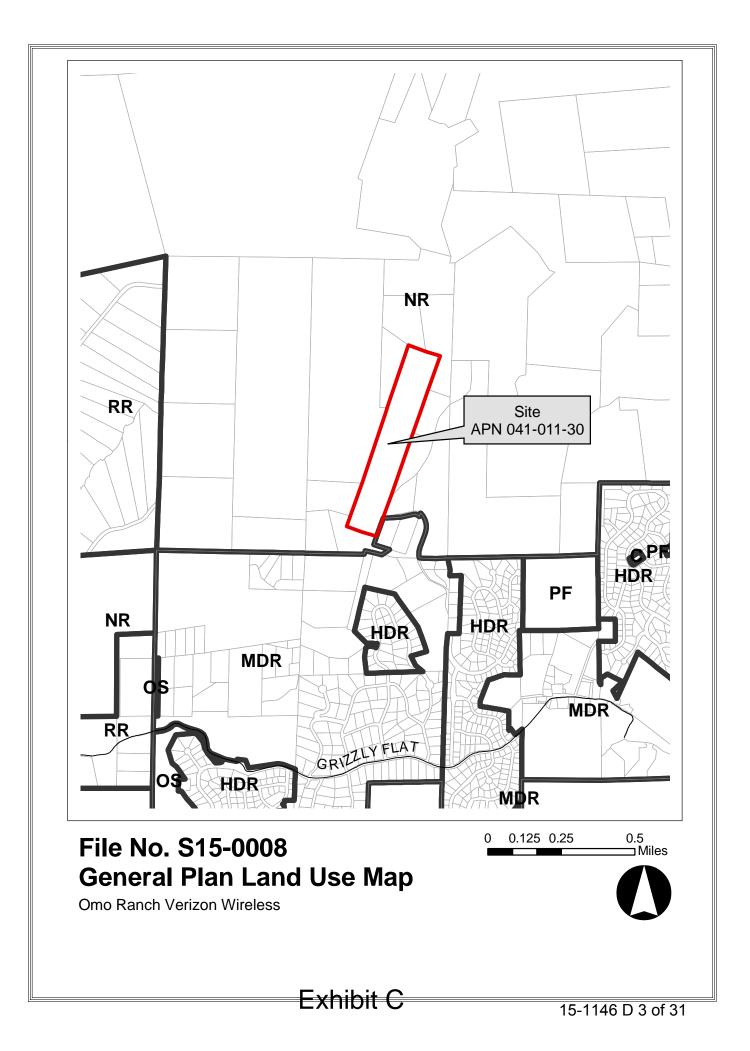
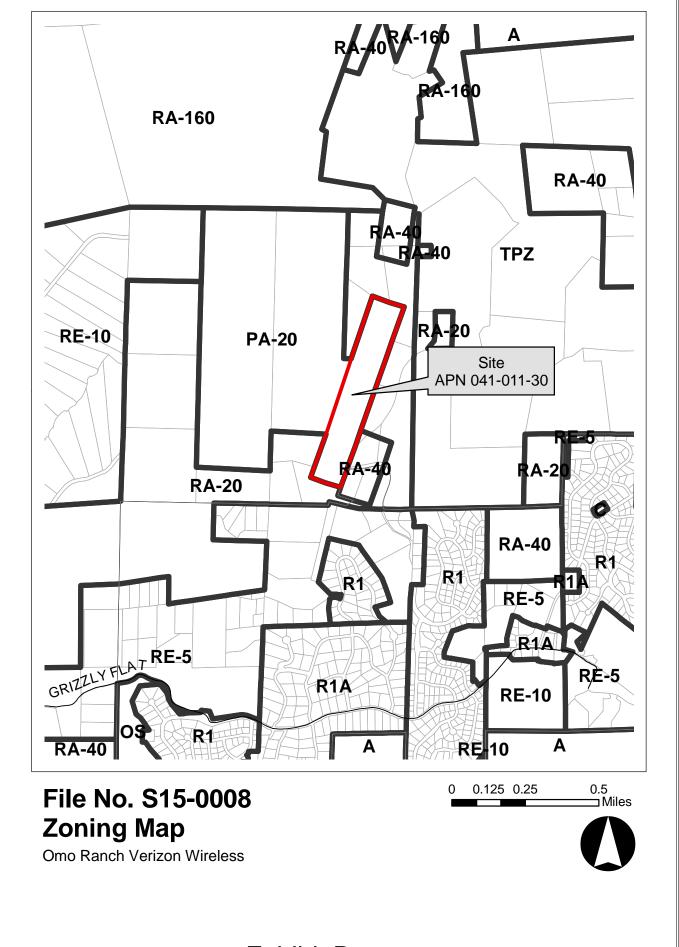


Exhibit A







APPROVED BY		
APPROVAL:	SIGNATURE:	DATE:
LANDLORD; ON AIR LEASING; ON AIR ZONING; ON AIR CONSTRUCTION; RF ENGINEER; CONSTRUCTION MANAGER; REAL ESTATE SPECIALIST; OPERATIONS MANAGER; TRANSPORT MANAGER;		

$\overline{}$ 1 ш Verīzon wireleās SITE NAME: **OMO RANCH** ADDRESS 5821 EAGLE HILL RD GRIZZLY FLATS, CA 95636 PSL#: 285384 PSP#: 20141015890

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING CONDITIONS, AND DIMENSIONS OF THE JOB SITE PROOP TO STARTING WORK, IMEDIATELY ONTRY THE ENGINEER IN WITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK OR BE RESPONSIBLE FOR THE SAME.

2. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR WORK PROCEEDING IN A SAFE AND ORDERLY MANNER IN ACCORRINACE WITH THE APPLICABLE CODES AND REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. CONTRACTOR AMD/OR THERE EMPLOYEES NUST IMMEDIATELY. NOTEY THE CONSTRUCTION MANAGER OF ANY NECESSARY CHANGES TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.

TEREN. 2. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STROT ACCORDANCE WITH ALL APPLICABLE CODES, REDULATIONS AND ORDINANCES, CONTRACTOR SHALL CME ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFLU ORDERS OF THE WORK, MECHANICAL AND ELECTROS AND LAWFLU ORDERS OF THE WORK, MECHANICAL AND ELECTROS AND LAWFLU ORDERS OF THE WORK, MECHANICAL AND ELECTROS. SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL, AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

5. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.

6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS TARE PRECEDENCE.

7. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND FROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE INFLUENTATION ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.

8. KED GENERAL AREA CLEAN, HAZARO FREE, AND DISPOSE OF ALL DIRT, DEBRIS AND RUBBISH, REMOVE ALL EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PANT SPCITS, DUST OR SNUDGES OF ANY NATINE.

9. CONTRACTOR SHALL WAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAMMG, CURRING, ETC., DURING CONSTRUCTION, UPON COMPLETION OF WORK CONTRACTOR SHALL REPAR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

10. THESE DRAWINGS ARE FORMATTED FOR 24"x36" (SIZE D). DO NOT SCALE OTHER SIZED VERSIONS OF THESE DRAWINGS.

11. THE FACILITY IS AN UNOCCUPIED DIGITAL TELECOMMUNICATION FACILITY.

12. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPHENT, APPLICITENMOSES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

13. PRIOR TO THE SUBMISSION OF BLDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DURENIONS, AND CONTRUING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PROR TO PROCEEDING WITH CONSTRUCTION, ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ARCHITECT/ENGINEER PROR TO PROCEEDING

14. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED. BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.

15. CONTRACTOR SHALL CONTACT USA BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.

16. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.

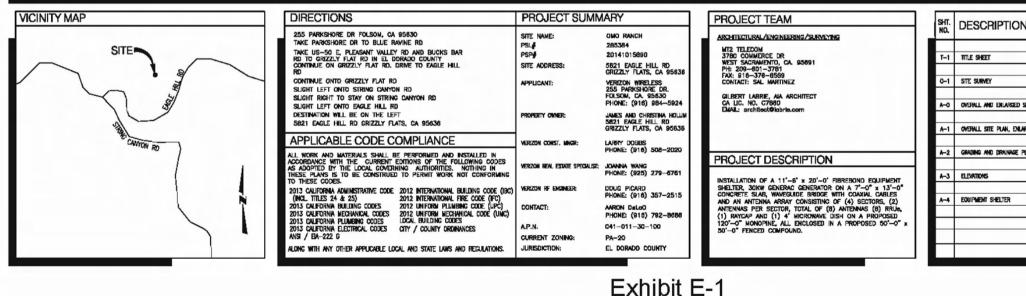
17. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE FRANCLET AREA DURING CONSTRUCTION.

18. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAFTER 23 OF THE UBC REGARDING EARTHQUAKE PIPING, UGHT FIXTURES, CELING GRID, INTERIOR PARTITIONS AND MECHANICAL EQUIPMENT. ALL WORK MUST BE IN ACCORDANCE WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.

19, DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN, MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS FART OF THE WORK.

20. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND OF SURVEY DRAWING (SHEET C--1), SHALL NOT BE USED TO DENTIF THE BRANKING OF TRUE NORTH AT THE STE. THE CONTRACTOR SHALL ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/DAGINGER PROR TO PROCEEDING WITH THE WORK FAM TRUE NORTH OREDITATION AS DEPICTED ON THE ONLY SURVEY. TH SHALL ASSUME SOLE LABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.

21. FENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASH WATERINGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROO AND DETAILS. CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION SITE-SPECIFIC CONDITIONS FROM ARCHITECT/ENGINEER, IF NECESS



ON THE PLOT TY OR ESTABLISH L RELY SOLELY A THE STE WY DISCREPANCY INGS AND THE E CONTRACTOR ED AND MADE FING STANDARDS FOR WIT, BEFORE	Visit of Market RD PO BOX A MASTI PO	
ON	PROJECT NO: 285384 DRAWN BY: CNELSON CHECKED BY: SAL MTZ JR NO DATE 1 07.14.14 90% ZONING 2 07.22.14 95% ZONING 4 08.17.15 1 00% 2 0.14 1 00% 3 08.20.14 1 00% 4 08.17.15 1 00% 1 0 1 0 1 0 1 0 1 0 2 07.22.14 1 00% 2 0.14 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	

15-1146 D 5 of 31

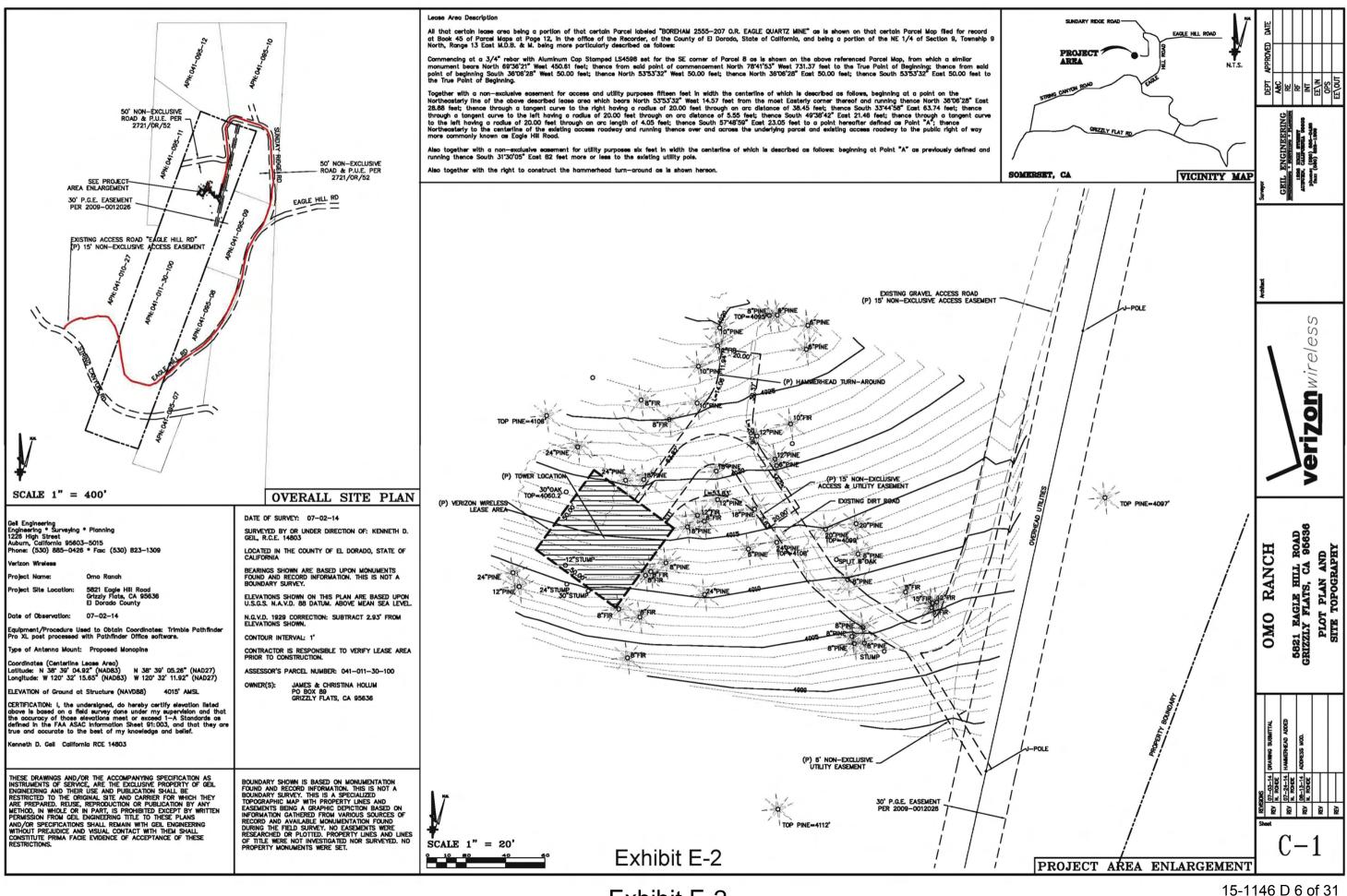
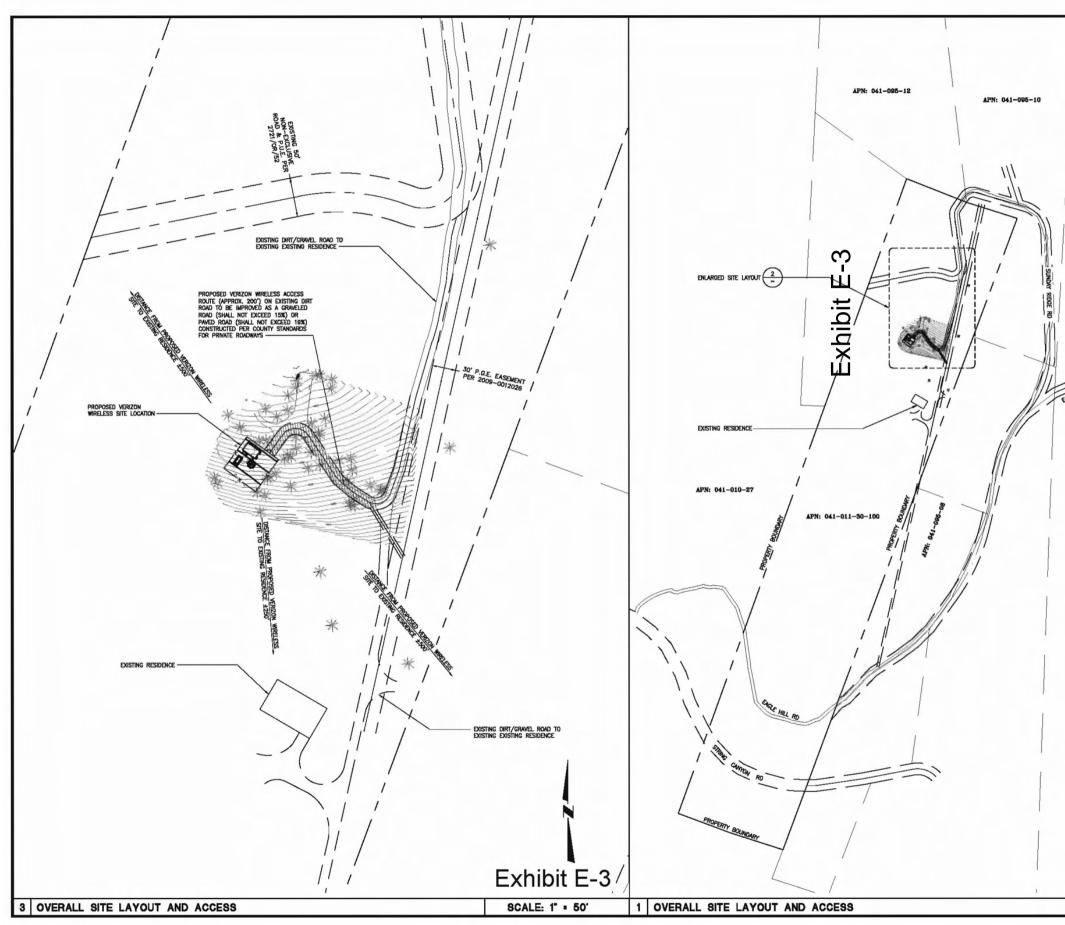
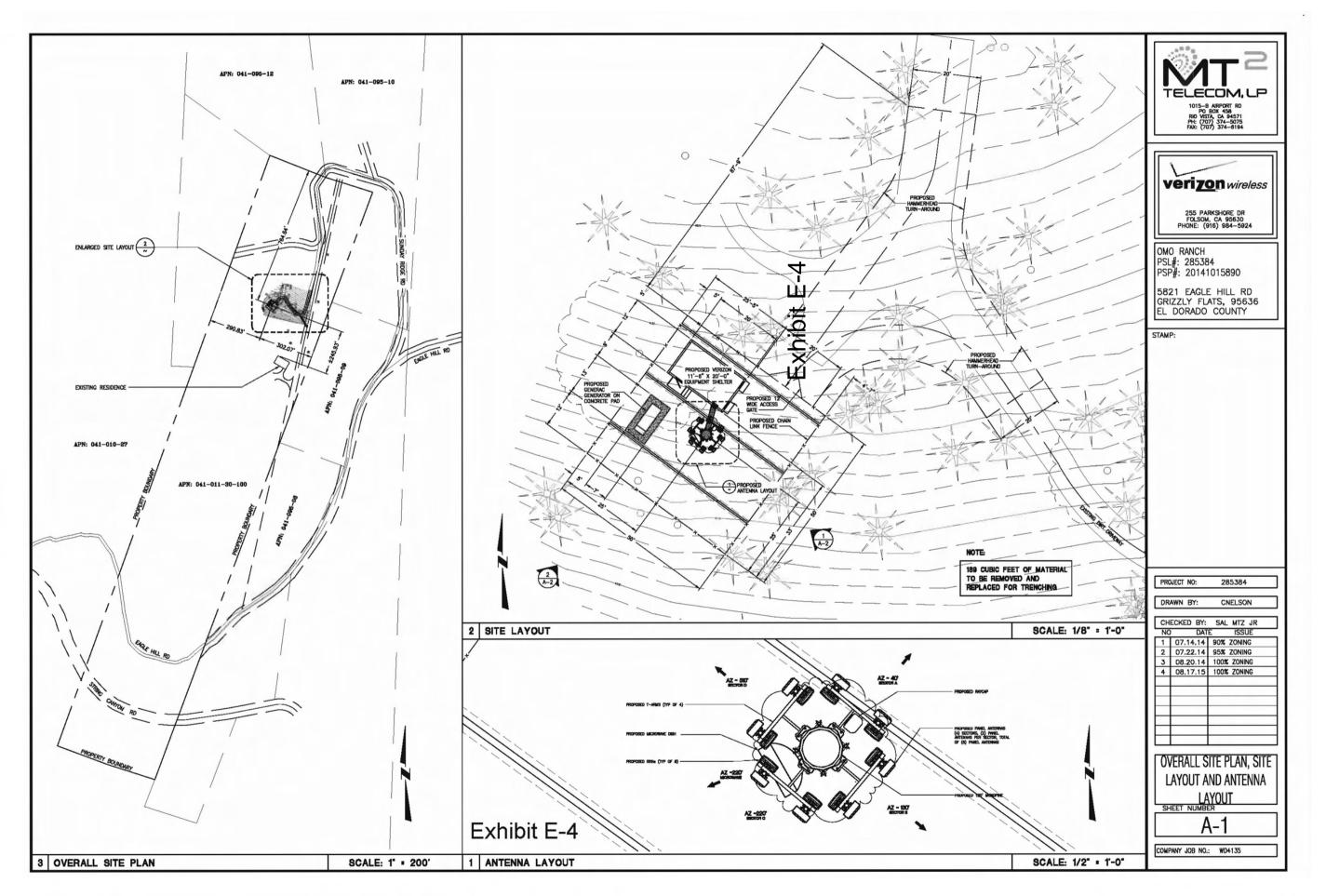


Exhibit E-2

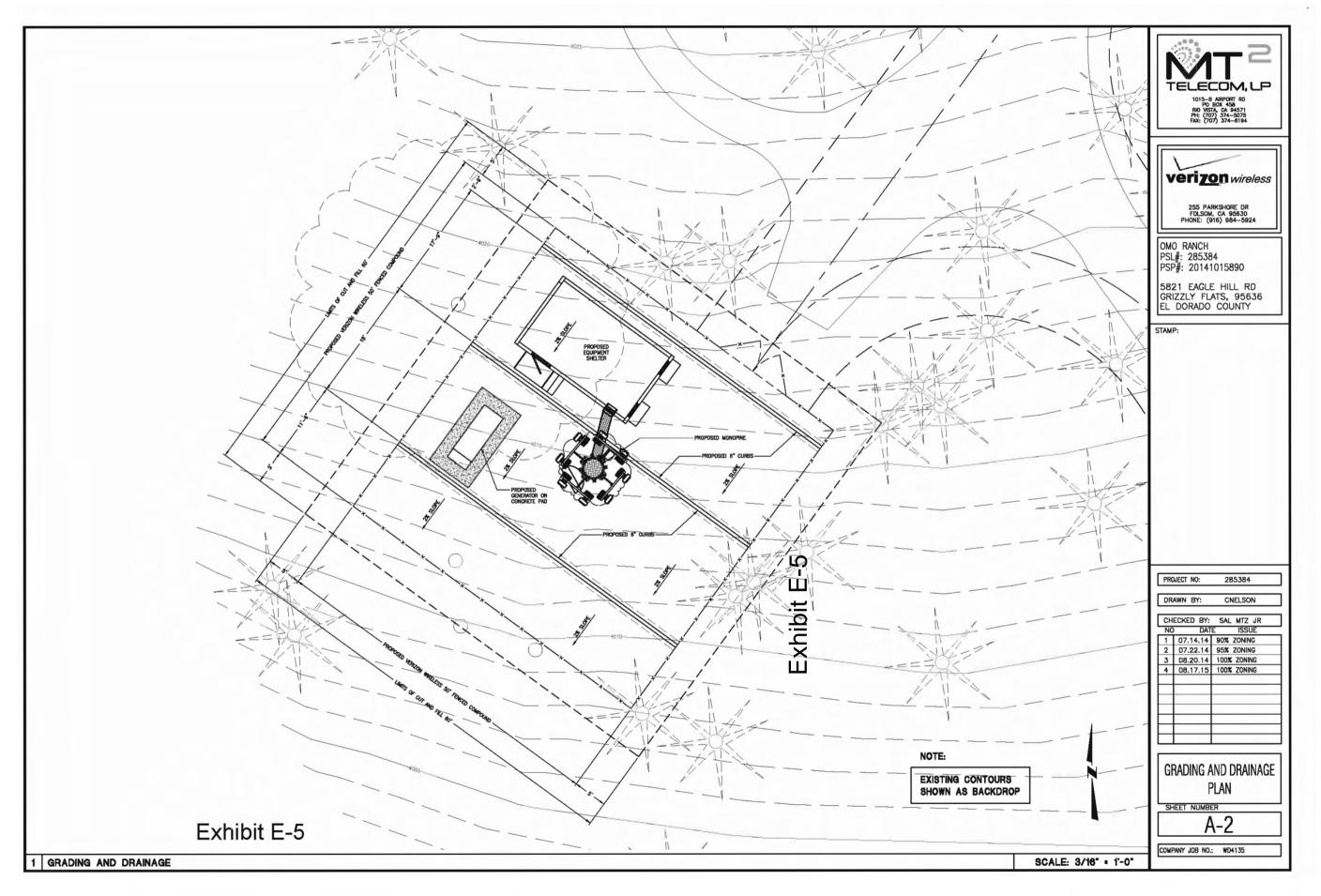


15-1146	D 7	of	31
---------	-----	----	----

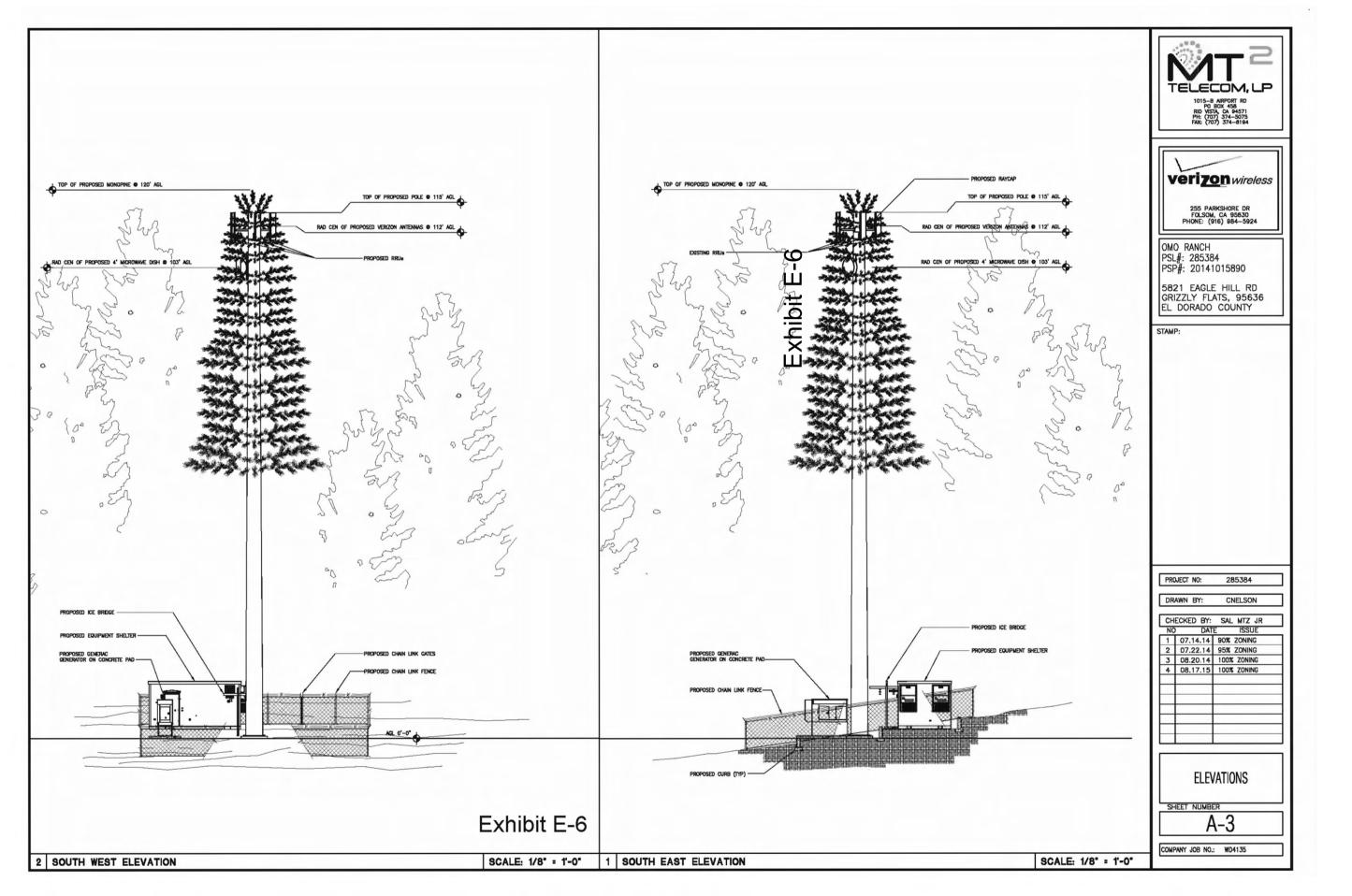
TELECOM, LP NO 80X 438 NO 951X AC M4571 PH: (707) 374-5075 FM: (707) 374-6194
Verizon wireless 255 PARKSHORE DR FOLSOM, CA 95630 PHONE: (916) 984–5924 OMO RANCH PSL#: 285384 PSP#: 20141015890 5821 EAGLE HILL RD GRIZZLY FLATS, 95636 EL DORADO COUNTY
STAMP:
PROJECT NO: 285384 DRAWN BY: CNELSON CHECKED BY: SAL MTZ JR NO DATE 1 07.14.14 90% ZONING 2 07.22.14 95% ZONING 3 08.20.14 100% ZONING 4 08.17.15 100% ZONING
OVERALL AND ENLARGED SITE LAYOUT AND ACCESS sheet number A-O company job no:: wd4135



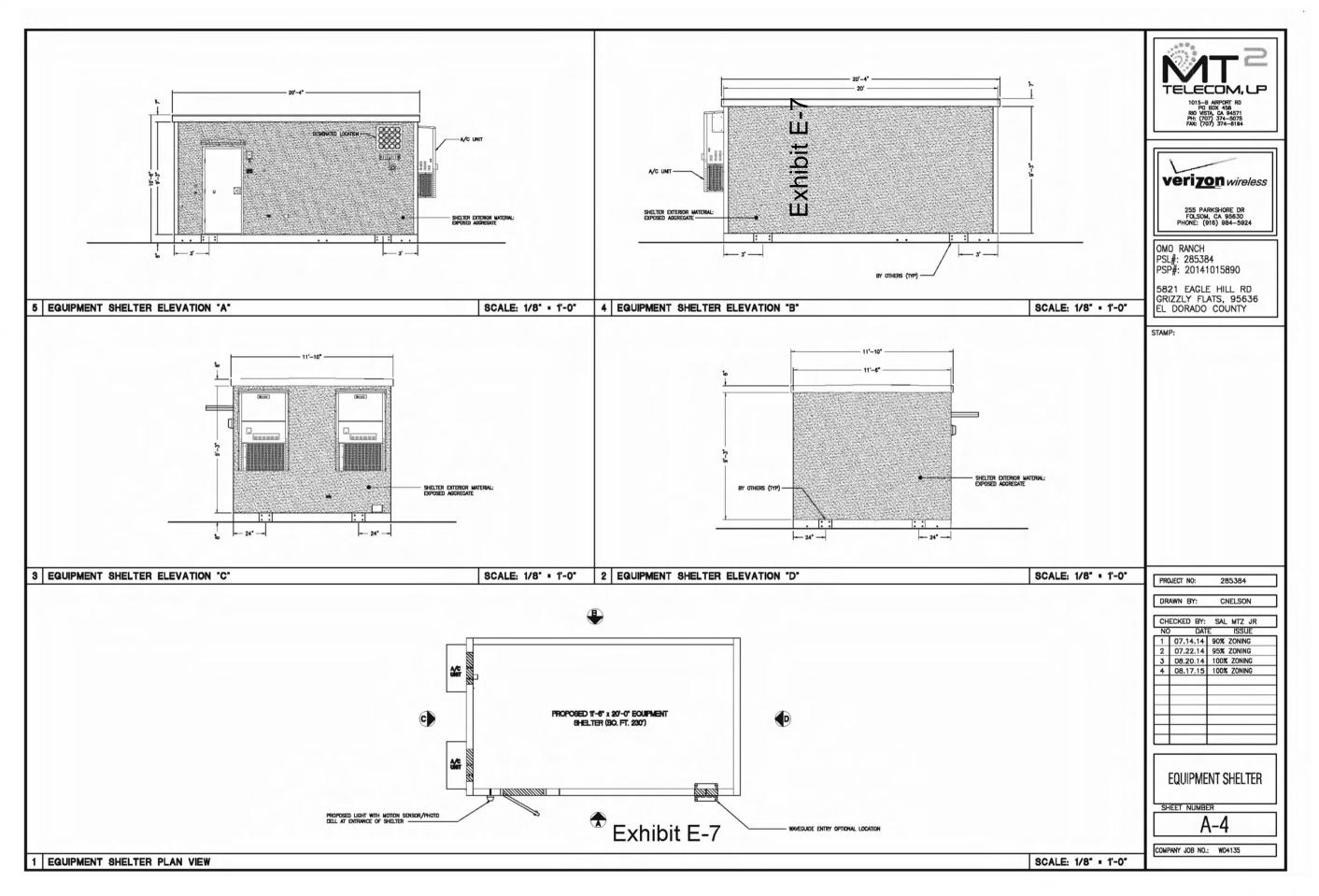
15-1146 D 8 of 31



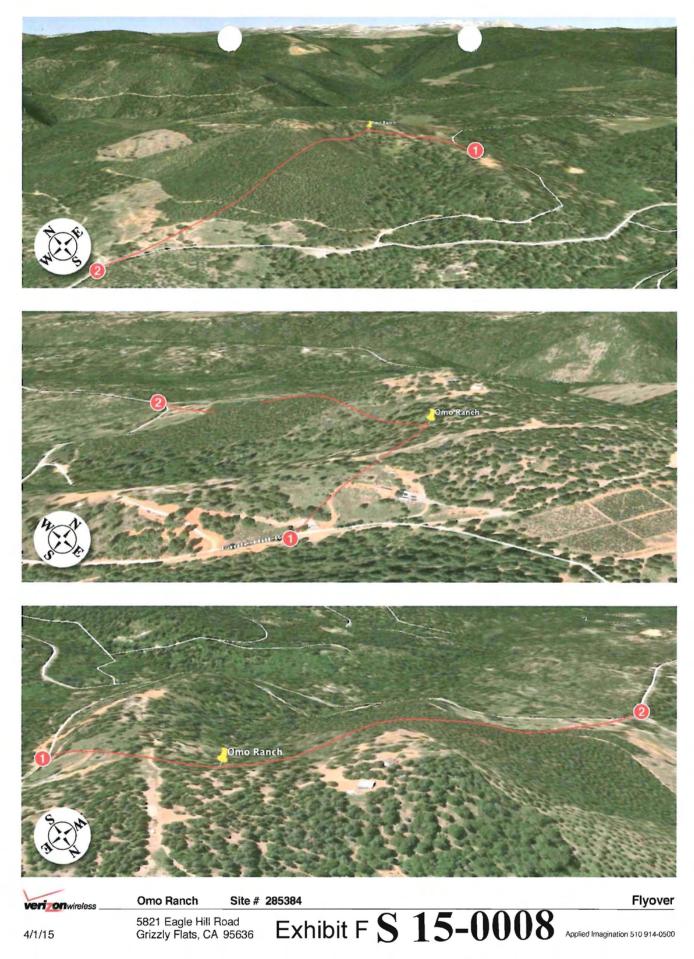
15-1146 D 9 of 31



15-1146 D 10 of 31



15-1146 D 11 of 31



15-1146 D 12 of 31





verizonwireless

4/1/15

Omo Ranch Site # 285384

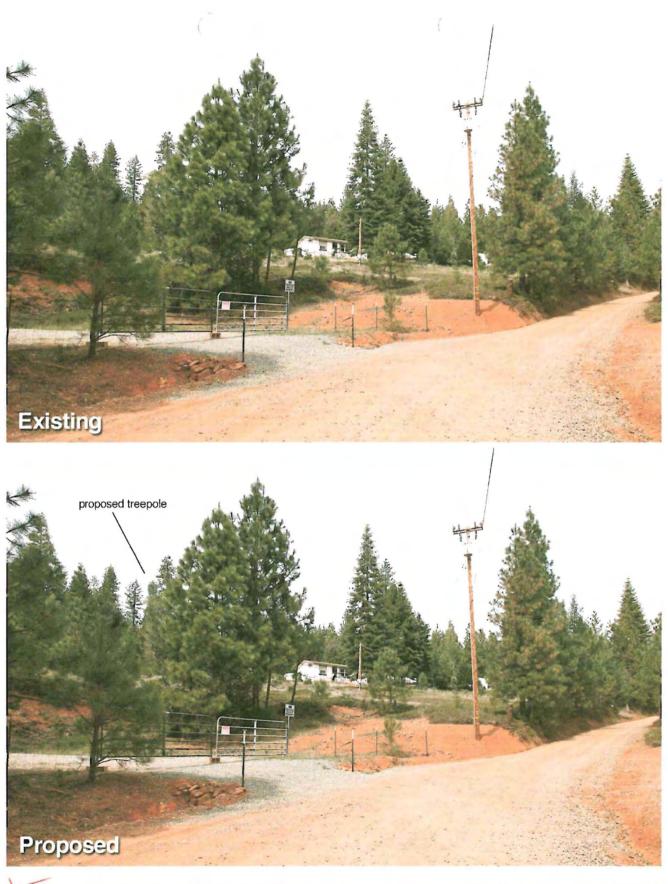
and the Dead

5821 Eagle Hill Road Grizzly Flats, CA 95636

Aerial Map

Applied Imagination 510 914-0500

15-1146 D 13 of 31



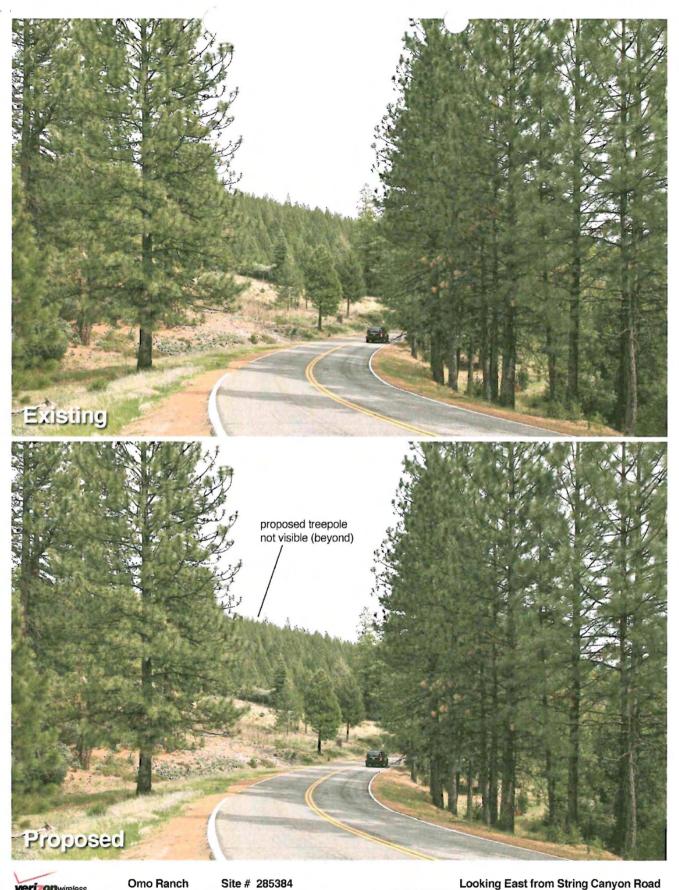
verizon wireless

Omo Ranch Site # 285384

4/1/15

5821 Eagle Hill Road Grizzly Flats, CA 95636 Looking Northwest from Eagle Hill Road View #1 Applied Imagination 510 914-0500

15-1146 D 14 of 31



Looking East from String Canyon Road

View #2 Applied Imagination 510 914-0500

5821 Eagle Hill Road Grizzly Flats, CA 95636

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

A INING DEP ARTMENT 4 53



15-1146 D 16 of 31

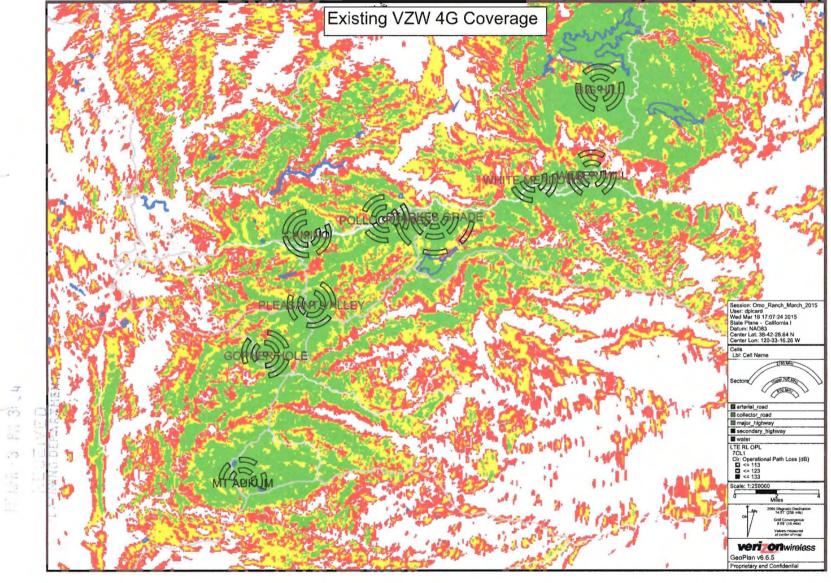


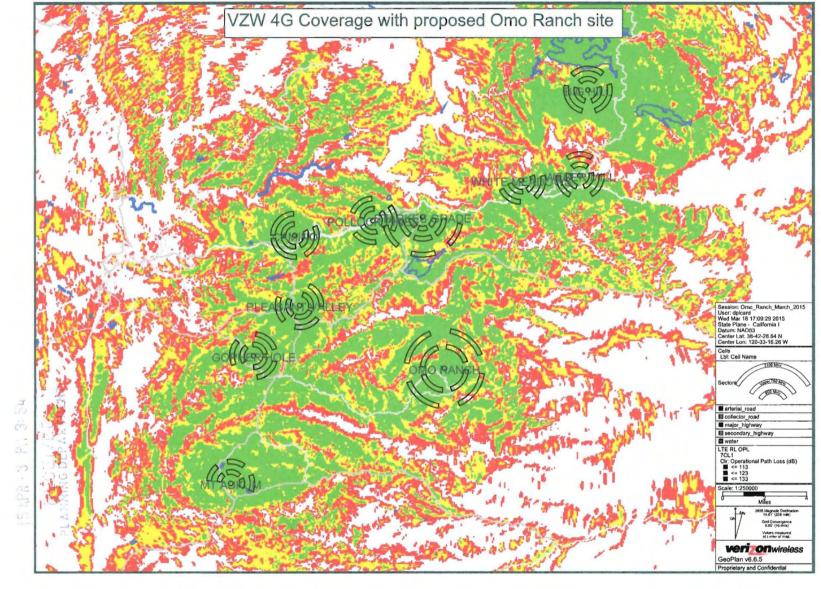
Exhibit G-1

S 15-0008

15-1146 D 17 of 31

Fxhibit G-1

Exhibit G-2



S 15-0008

Exhibit G-2

15-1146 D 18 of 31

Exhibit G-3

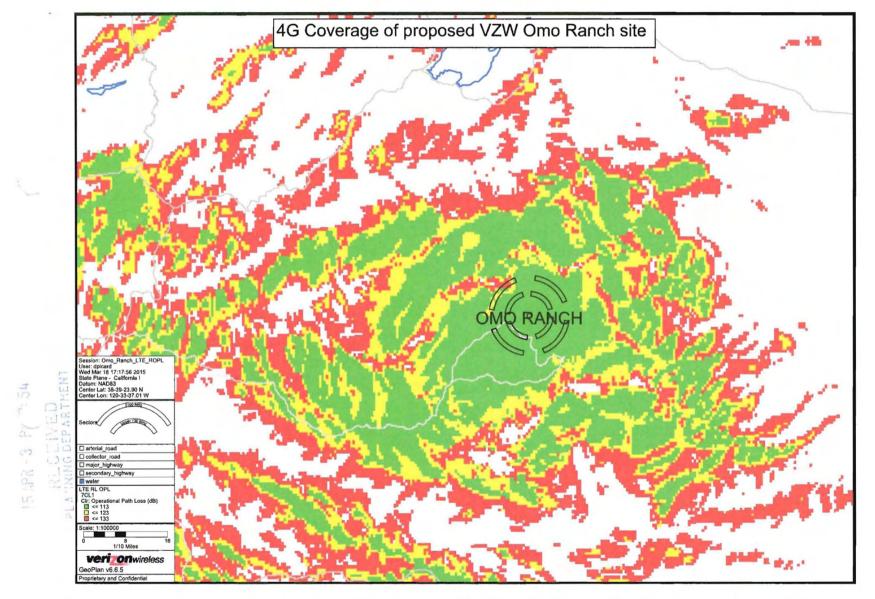


Exhibit G-3



15-1146 D 19 of 31

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 <u>Chris@RadioFrequencyCompliance.com</u> 415-948-6790

Exhibit H



11-3 21 3:54

EIVED EPARTHENT

15-1146 D 20 of 31

. .

e i

r

Omo Ranch Site Location 285384 5821 Eagle Hill Road Grizzly Flats, CA 95636 Report Date: August 25, 2014

Table of Contents

Introduction	.1
Site Description	.1
Compliance Summary	
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

Omo Ranch Site Location 285384 5821 Eagle Hill Road Grizzly Flats, CA 95636 Report Date: August 25, 2014

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.

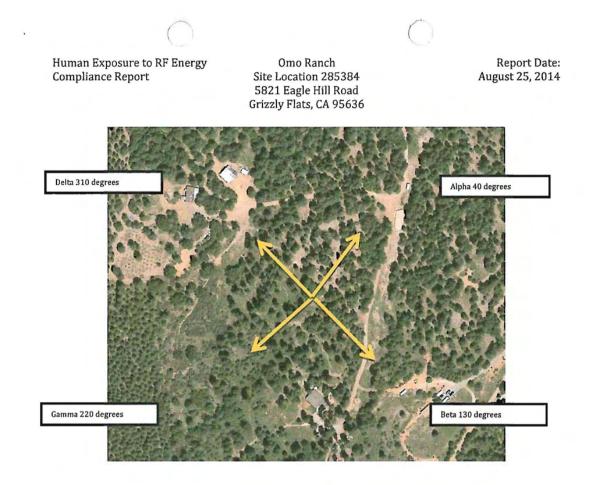
The following documents were supplied by Verizon Wireless or its representatives. This information in considered to be correct and was used in the creation of this report:

- 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-pine. (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.

Page 2 of 10

Omo Ranch Site Location 285384 5821 Eagle Hill Road Grizzly Flats, CA 95636 Report Date: August 25, 2014

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 Table1 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

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

Report Date: August 25, 2014

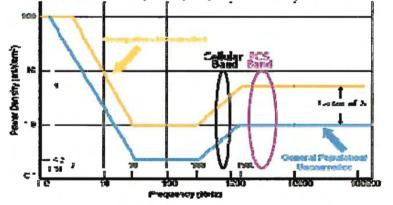
Table 1: MPE Limits for General Population	/Uncontrolled Environment ⁴
--	--

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	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	Electric Field	Magnetic	Power Density	Averaging	Time	for	
(MHz)	Strength	Field Strength	(mW/cm ²)	E ² , H ²	, or	S	
	(V/m)	(A/m)		(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		and the state of the	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

Omo Ranch Site Location 285384 5821 Eagle Hill Road Grizzly Flats, CA 95636 Report Date: August 25, 2014

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

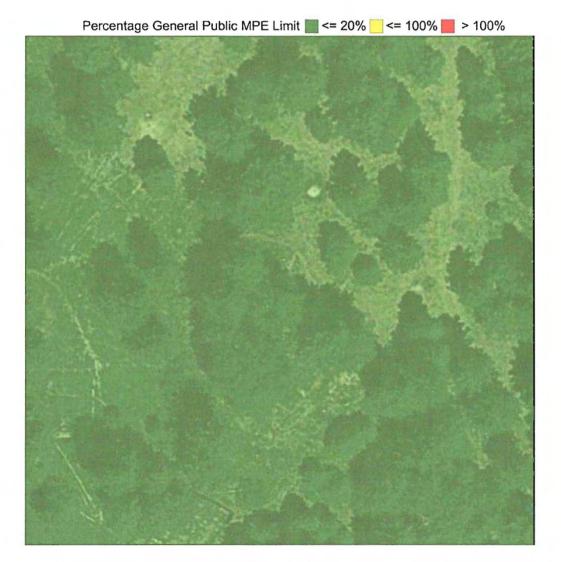
ID	Name	Freq	Power	Mfg	Model	X X	Y	Z	Aper	Pt Dir
D1 850 1x	VzW	880.00000	113.3	ANDREW	SBNHH-1D65B	101.0	102.0	109.0	6.0	64.8;40
D1 700 LTE	VzW	746.00000	85.0	ANDREW	SBNHH-1D65B	102.0	101.0	109.0	6.0	69;40
D1 AWS LTE	VzW	2120.00000	113.3	ANDREW	SBNHH-1D65B	102.0	101.0	109.0	6.0	61.2;40
D2 850 1x	VzW	880.00000	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 aperature, not the center line Power is the net power, in Watts, to the antenna

Pt Dir is th beam width in degrees and the orientation

Omo Ranch Site Location 285384 5821 Eagle Hill Road Grizzly Flats, CA 95636 Report Date: August 25, 2014



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**.

Page 7 of 10

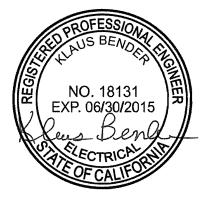
Omo Ranch Site Location 285384 5821 Eagle Hill Road Grizzly Flats, CA 95636 Report Date: August 25, 2014

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

Omo Ranch Site Location 285384 5821 Eagle Hill Road Grizzly Flats, CA 95636 Report Date: August 25, 2014

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

<u>, ,</u>

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.

Page 10 of 10