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PROJECT SUPPORT STATEMENT

**AT&T PROJECT NAME: CONNECT AMERICA FUND II (CAF II) PROJECT
DEVELOPMENT APPLICATION FOR AT&T SITE "PILOT HILL 2" (COOL)**

AT&T SITE NUMBER: CVL03175

AUTHORIZED AGENT:

EPIC WIRELESS GROUP, LLC

ZONING MANAGER:

JARED KEARSLEY; 916-755-1326; jared.kearsley@epicwireless.net

PROPERTY OWNER: KIRK BRELSFORD

LANDOWNER CONTACT: 530-887-8782

APN: 071-032-15-100

3100 TRIPLE SEVEN ROAD, COOL, CA 95614

- **PROJECT'S BACKGROUND AND OBJECTIVES**
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- **ALTERNATIVE SITE ANALYSIS**
- **SUBJECT PARCEL AND SITE DETAILS AND SUPPORTING DOCUMENTS**
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- **FIRE SUPPRESSION SYSTEM**
- **OTHER CONSIDERATIONS RELATING TO NEW WIRELESS TELECOMMUNICATION FACILITIES PURSUANT TO 17.14.210 AND 17.22.500 OF THE EL DORADO COUNTY ZONING CODE**

**Exhibit J
Site 1 Cool (formerly Pilot Hill 2)**



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Project Background and objectives:

AT&T is participating in a Federal Government funded project called Connect America Fund (CAF) – which is to provide underserved areas throughout the United States in general and throughout El Dorado County in particular with hi-speed broadband internet. The build-up of hi-speed broadband internet throughout rural/underserved areas will not only drive economic growth in rural America, but will expand the online marketplace nationwide, creating jobs, educational and businesses opportunities across the country. The CAF project is required to provide broadband internet services capable of 10 Mbps download and 1 Mbps upload speeds.

AT&T has the necessary technology that allows them to build out their territory in El Dorado County with the much demanded hi-speed broadband internet to help improve the county’s rural infrastructure. AT&T’s basis for transmitting and receiving hi-speed broadband internet to residences is executed by providing one site with either a microwave fiber hop or a direct fiber line to the site and transferring the high speeds of fiber to each Living Unit (LU) via wireless signals. Each LU being provided with the service will have a small square antenna located in a vantage point on the property where it has a direct line of site to the tower. The square antenna will send and receive wireless broadband internet providing the LU with a minimum of 10/1 Mbps download and upload speeds, respectively.

AT&T’s secondary objective is to provide and enhance AT&T’s Wireless Telecommunications services (cellular services) to underserved areas. Cellular services go hand in hand with building the internet infrastructure throughout these underserved areas. People today rely on their mobile devices not only for educational and business purposes, but also for emergency services. Increasing AT&T’s cellular coverage and capacity throughout El Dorado County’s rural areas while providing wireless broadband internet will greatly assist with enhancing the county’s economic growth and the area’s infrastructure.

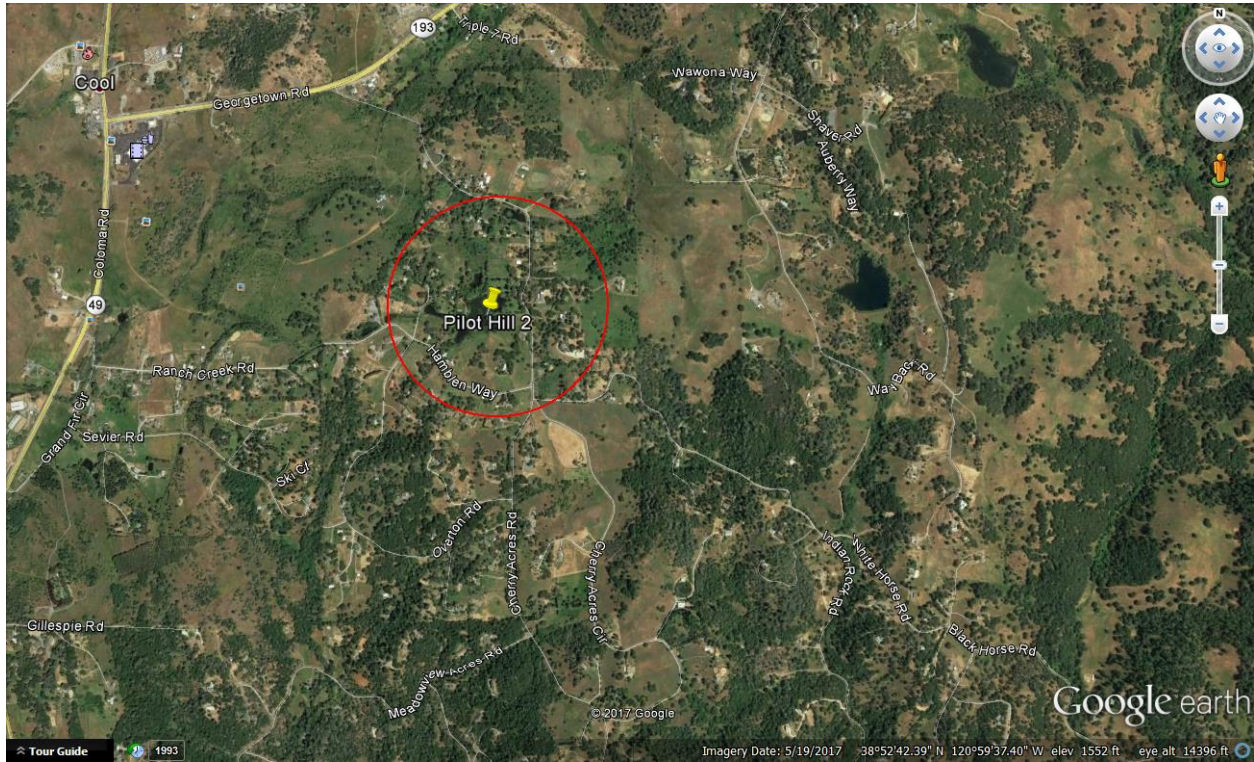
Given the need for direct line of site to residences, a taller than typical tower will be necessary in order to provide wireless broadband internet services to as many homes in the targeted areas as possible. During the tower design phase, the Radio Frequency (RF) engineer study many variables including surrounding tree heights, tree densities, population densities, and surrounding hill tops, in order to properly design a sufficient tower height with the goal of achieving the FCC’s track census block mandates of reaching specific LU coverage objectives per area. Living Unit (LU) coverage objectives are provided by the RF engineer using density maps and are based on the area’s approximate population. AT&T’s goal is not only to reach the coverage objective, but to outperform the coverage objective to ensure that the maximum amount of homes are being provided this service while taking into consideration a small margin of error during the simulation process.



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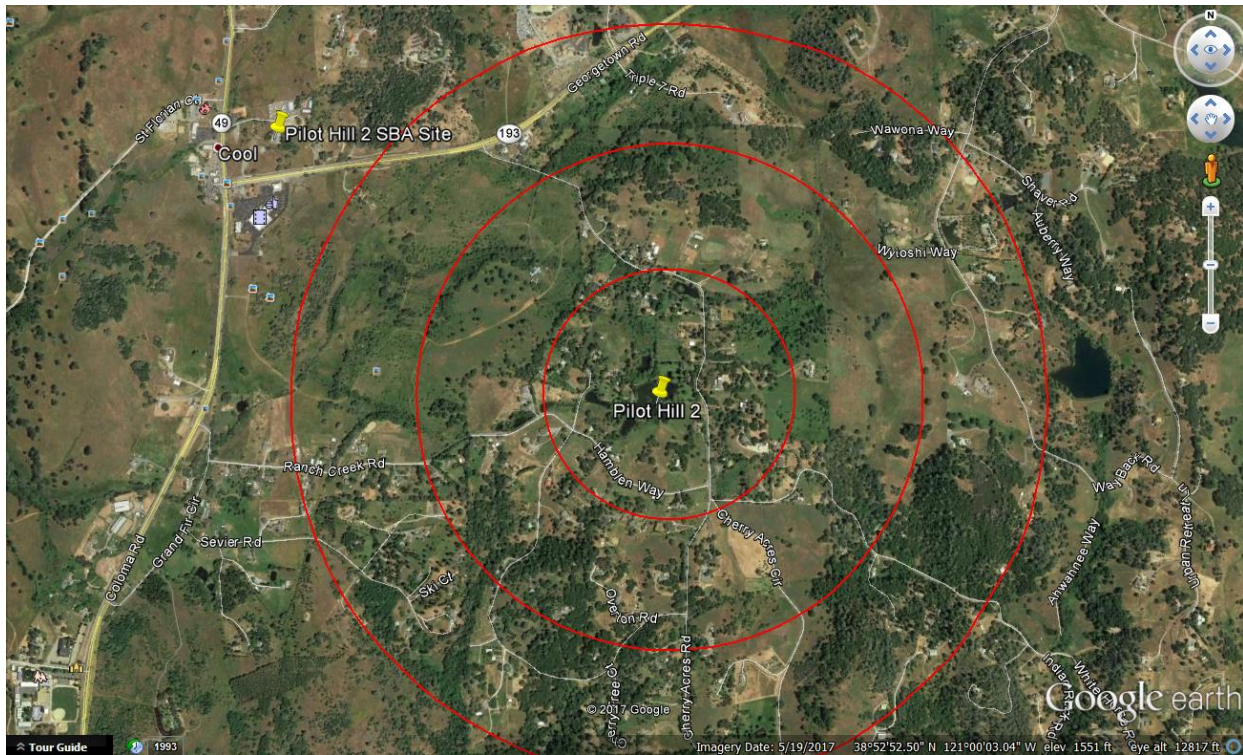
Search Ring's Description and Objectives:



AT&T Mobility is proposing to build and maintain an unmanned wireless telecommunication facility consisting of a 36' x 36', 1,296 square foot enclosed compound (lease area). The compound will include a 122-foot Stealth Monopine tower, one equipment shelter, one 35kw standby propane generator, and one 500 gallon propane tank. This facility will be located at 3100 Triple Seven Road, Cool, within El Dorado County's jurisdiction in a 25.037 acre RE-5 zone. The site is approximately 870 feet south of Knickerbocker Creek and the area consists of oak trees, evergreen trees, and rolling hills with rocky terrain.

AT&T's objective for the Pilot Hill 2 site is to provide wireless hi-speed broadband internet and cellular services to the nearby residences. This site is to provide hi-speed internet and enhanced cellular coverage & capacity to the Cool and Cherry Acres community, surrounding the search ring, which is a relatively dense underserved areas. The site location's elevation is approximately 1,621 feet while the surrounding community's elevation averages around 1,500 feet, giving the homes within the community great potential for line of site to the tower. After running a coverage simulation at the site location, AT&T is anticipating meeting their FCC objective for this search ring.

Potential Co-locations:



There is one potential Co-location opportunity in the near vicinity of the provided Search Ring. An Existing tower owned by SBA is located outside of AT&T's Search Ring approximately 1 mile to the west at the intersection of Hwy 49 and Hwy 193. SBA's tower is 70' tall and the other carrier's antennas are located at a 60' and 50' centerline, leaving only an available centerline for an additional carrier at 40 feet. If the tower was able to be modified for an additional carrier above the highest antennas, the available centerline would then be approximately 70 feet. It is worthy to note that the existing Tower has already been re-braced for structural integrity and therefore most likely has already reached its capacity and would not allow a tower extension. Even though a tower extension is unlikely, AT&T still ran a coverage simulation at both 40' and 70' centerlines and those simulations on the existing SBA Tower failed to support AT&T's CAF II project requirements for the Cool community/search ring. At the 40' centerline, AT&T lost approximately 55% of the targeted LUs within the community. At the 70' centerline, AT&T lost 45% of the targeted LUs for the community. Additionally, the total amount of LU's the SBA Tower would provide failed to satisfy FCC's targeted goal for this area therefore disqualifying this collocation opportunity as a viable candidate. The SBA Tower has been designed for mobile phone services that do not need line of site technology, therefore, a 50-60 foot centerline is sufficient for mobility coverage. However, AT&T's CAF II wireless highspeed broadband internet technology requires line of site to LUs, and therefore, requires higher than typical centerlines and for that reason as well SBA's tower was disqualified from this project. The existing SBA Tower does not adequately fulfill the LU targets as set by the Federal Communications Commission and does not fill the significant gap in coverage for the Cool Community; therefore, the SBA Tower is not a co-locatable option for AT&T.



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Photos of Structural Bracing on the existing SBA Tower:

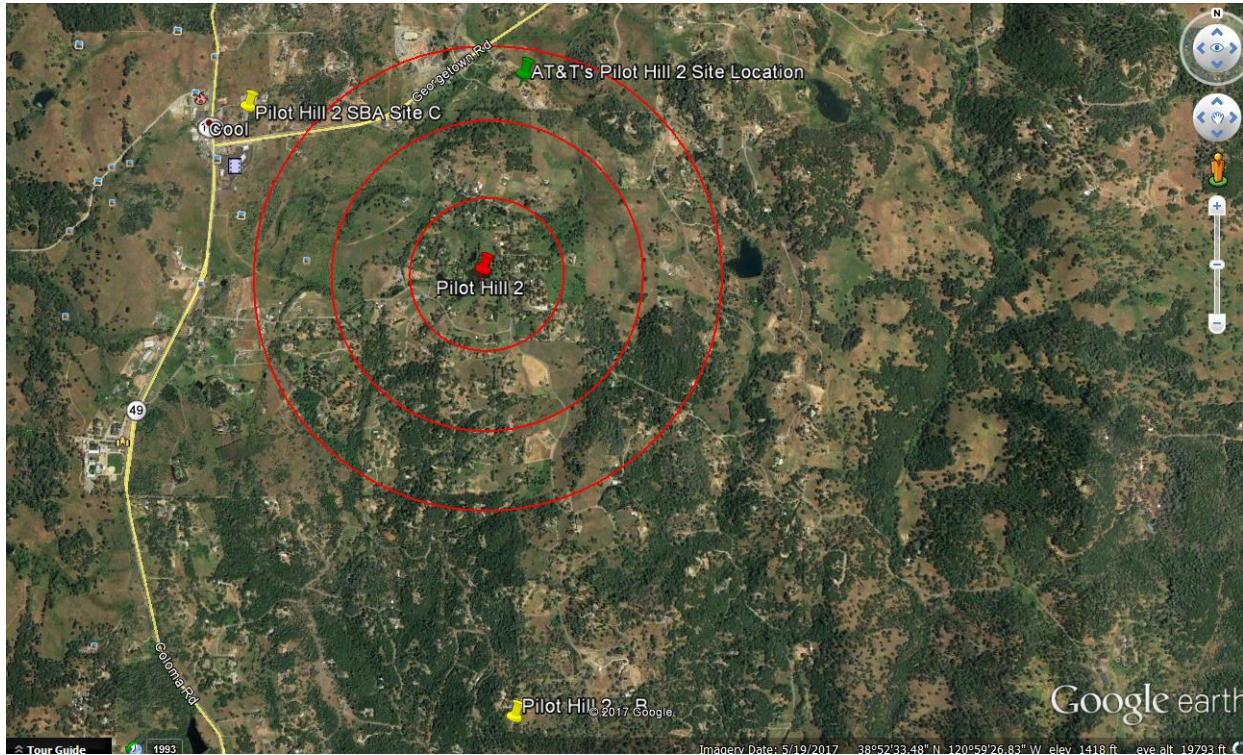




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Alternative Site Analysis pursuant to 17.14.210 (B) (1):



Above is a map showing the Search Ring (center is the red pin), Proposed Site (green pin) and the two alternative sites (yellow pins) that were considered for placement of the telecommunications facility. Epic Wireless was forced to search well beyond AT&T's Search Ring due to the restrictions within the Cherry Acres Home Owners Association.

Each Alternative Site is discussed below:



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Pilot Hill 2 Alternative Candidate B:

Address: 2225 Terrace View Court, Cool, CA 95614

Latitude/Longitude: 38.860233, -120.997694

Proposal – New Tower



Considerations:

Candidate B is located approximately 1.25 miles south of the center of AT&T's search ring. The proposed tower would be located on a 6 acre, RE-5 zoned property owned by Brian Cummings. The property is located at the end of Terrace View Court and the site was proposed in the center of the property. Candidate B was chosen as AT&T's third preferred candidate as the RF Engineer's simulation yielded 65% fewer LU's than the subject site located at 3100 Triple Seven Road (Subject Parcel). The site location was too far from AT&T's targeted area and also conflicted with an adjacent AT&T tower due west, located at 38.863826, -121.016378. The existing AT&T Tower serves the south end of Cherry Acres and was designed primarily to cover the nearby stretch of Hwy 49. The Cummings property has a Land Use LDR and is surrounded by properties with Land Uses LDR and RR. The nearest dwelling unit to the proposed site location is approximately 360 feet to the north. No oak woodlands would be required to be removed at this location.



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Pilot Hill 2 Alternative Candidate C:

1050 Northside Drive, Cool, CA 95614

Latitude/Longitude: 38.888289, -121.014101

Proposal – Co-Location



Considerations:

The Existing tower owned by SBA is located outside of AT&T's Search Ring approximately 1 mile to the west at the intersection of Hwy 49 and Hwy 193. SBA's tower is 70' tall and the other carrier's antennas are located at a 60' and 50' centerline, leaving only an available centerline for an additional carrier at 40 feet. If the tower was able to be modified for an additional carrier above the highest antennas, the available centerline would then be approximately 70 feet. It is worthy to note that the existing Tower has already been re-braced for structural integrity and therefore most likely has already reached its capacity and would not allow a tower extension. Even though a tower extension is unlikely, AT&T still ran a coverage simulation at both 40' and 70' centerlines and those simulations on the existing SBA Tower failed to support AT&T's CAF II project requirements for the Cool community/search ring. At the 40' centerline,



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AT&T lost approximately 55% of the targeted LUs within the community. At the 70' centerline, AT&T lost 45% of the targeted LUs for the community. Additionally, the total amount of LU's the SBA Tower would provide failed to satisfy FCC's targeted goal for this area therefore disqualifying this collocation opportunity as a viable candidate. The SBA Tower has been designed for mobile phone services that do not need line of site technology, therefore, a 50-60 foot centerline is sufficient for mobility coverage. However, AT&T's CAF II wireless highspeed broadband internet technology requires line of site to LUs, and therefore, requires higher than typical centerlines and for that reason as well SBA's tower was disqualified from this project. The existing SBA Tower does not adequately fulfill the LU targets as set by the Federal Communications Commission and does not fill the significant gap in coverage for the Cool Community; therefore, the SBA Tower is not a co-locatable option for AT&T. The property and surrounding properties are labeled as Commercial Land Use. Given the surrounding area is zoned commercial, the existing tower is not suited to cover the nearby residential areas.

Additional alternative sites considered and letters of interest sent out but received no response by landlords included the following parcels:

3303 Cherry Acres Road, Cool, CA 95614 – APN: 071-310-19; Owner: William Threlkel

1201 Hamblen Way, Cool, CA 95614 – APN: 071-171-10; Owner: Todd and Carrie Stowers

Cool, CA 95614 – APN: 071-032-40; Owner: Carl Ross



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Actual View of the Proposed Location:

The proposed lease area is located centrally in the subject property. The site will not interfere with the existing use of the property. Access will be directly off of Triple Seven Road. The site is elevated above the surrounding area and has great potential for line of site to the communities down below the subject parcel. The site isn't intrusive to nearby residents nor their view points of their properties. The nearest residence is approximately 600 feet to the northwest and sits 70 feet lower than the site location. The subject property is lined with oak and evergreen trees which naturally stealths the facility from adjacent properties. No Oak resources will be removed or severely impacted by the project. The surrounding Land Use for the area is LDR and MDR.





PARCEL DATA INFORMATION

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8/2/2017

Enter Another Parcel

Assessor's Parcel Number: 071-032-15

PROPERTY INFORMATION:

STATUS	JURISDICTION	TAX RATE	MAP	ACREAGE
ON ASSESSMENT ROLL AND TAXED	COUNTY OF EL DORADO	83 - 48	PM 9/98/2	25.037

2015 GENERAL PLAN LAND USE INFORMATION:

LAND USE DES.	AG DIST.	ECOLOGICAL PRESERVES	IMPORTANT BIOLOGICAL CORRIDOR	MINERAL RESOURCES	PLATTED LANDS	COMMUNITY REGIONS	RURAL CENTERS	SPECIFIC PLANS	ADOPTED PLAN NAME
LDR									

2015 ZONING INFORMATION:

ZONING DESIGNATION	DESIGN CONTROL	PLANNED DEVELOPMENT	OTHER OVERLAYS
RE-5			

2004 GENERAL PLAN LAND USE INFORMATION:

LAND USE DES.	AG DIST.	ECOLOGICAL PRESERVES	IMPORTANT BIOLOGICAL CORRIDOR	MINERAL RESOURCES	PLATTED LANDS	COMMUNITY REGIONS	RURAL CENTERS	SPECIFIC PLANS	ADOPTED PLAN NAME
LDR									

2004 ZONING INFORMATION:

ZONING DESIGNATION	DESIGN CONTROL	PLANNED DEVELOPMENT	OTHER OVERLAYS
R2A			
RE-5			

DISTRICTS:

FIRE	CSD	SCHOOL	WATER
EL DORADO COUNTY FPD		BLACK OAK MINE UNIFIED	GEORGETOWN DIVIDE PUD

FLOOD ZONE INFORMATION (See Note below):

FIRM PANEL NUMBER & REVISION	PANEL REVISION DATE	FLOOD ZONE	FLOOD ZONE BUFFER	FLOODWAY
06017C0200E	09/26/2008	X		

MISCELLANEOUS DATA:

SUPERVISORIAL DISTRICT	AG PRESERVE	RARE PLANT MITIGATION AREA	MISSOURI FLAT MC&FP
4	MICHAEL RANALLI		No

REMARKS:

No Eligibility Review Required
NOR ON BP #134914 RECORDED @ DOC-2002-0017574-00

NOTE: The flood zone information presented here is based solely on data derived from the FEMA Flood Information Rate Maps, and does not include data from any other flood studies.

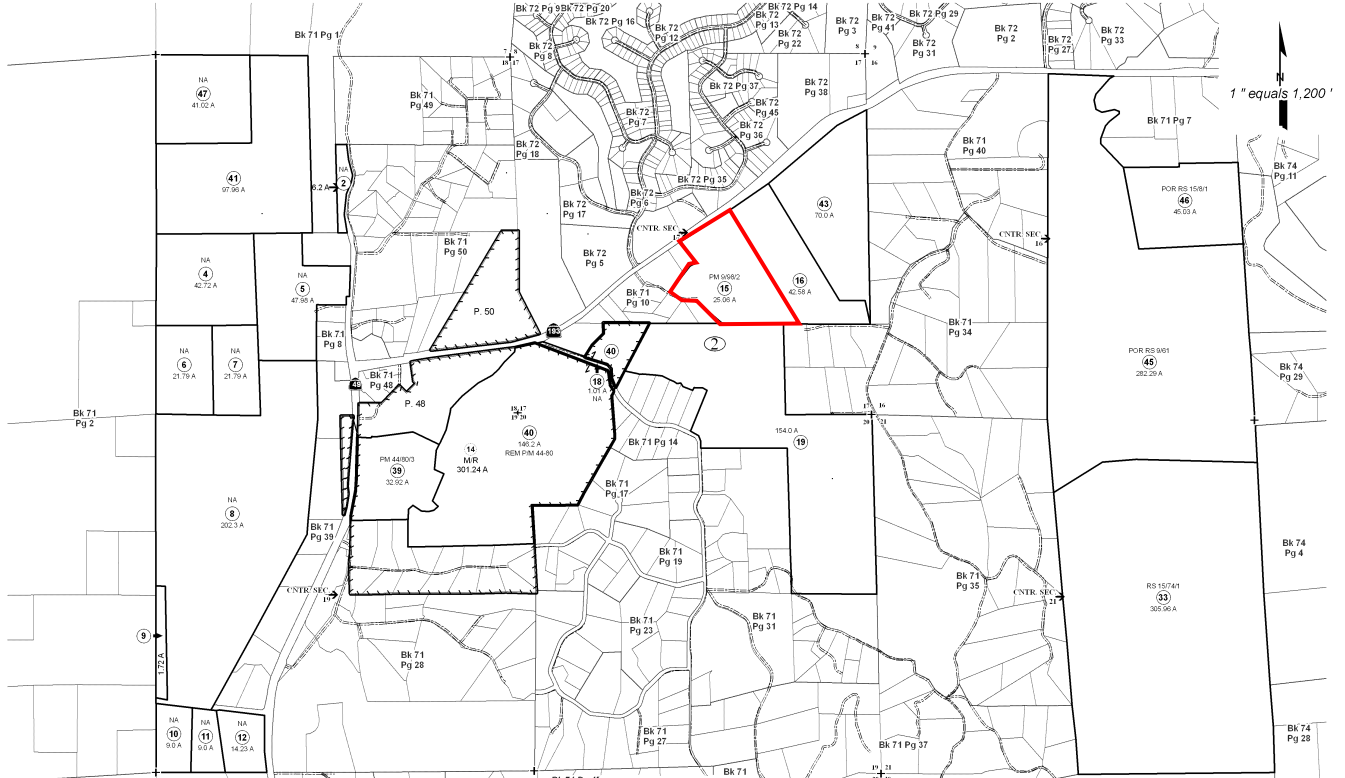


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Assessor's Parcel Map:

POR. SECS. 16 THROUGH 21, T.12N., R.9E., M.D.M.

71:03



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

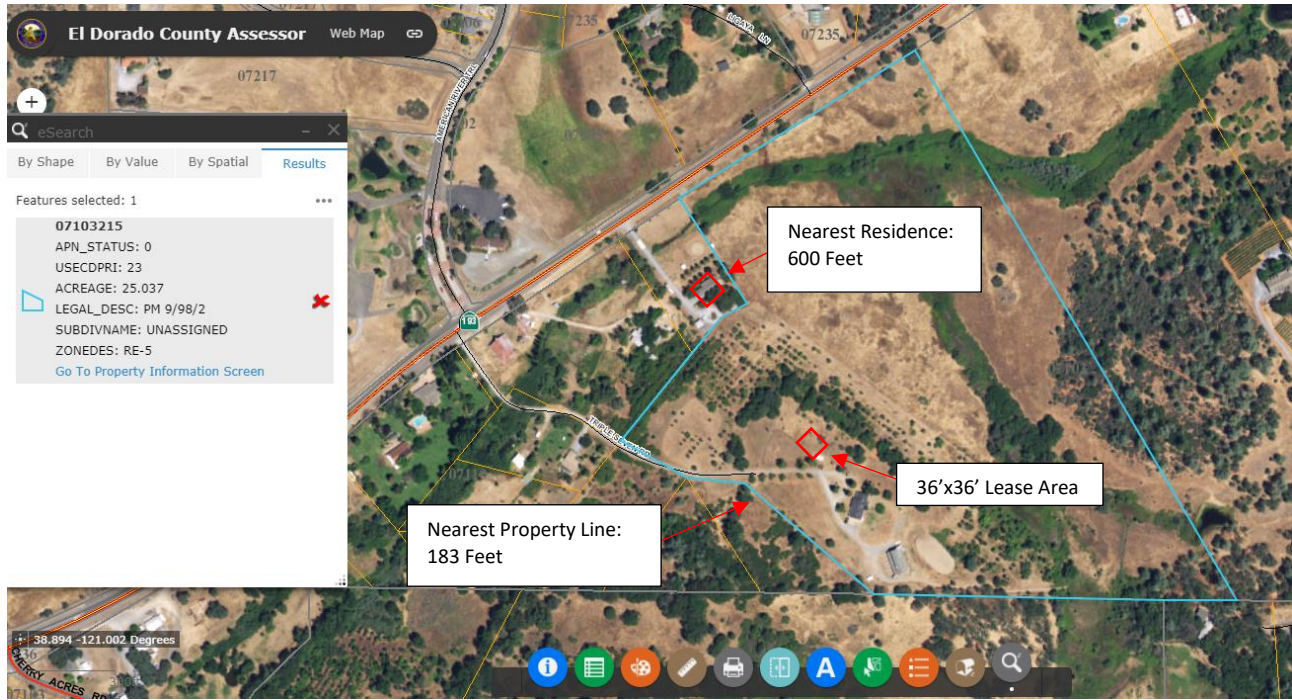
Adjacent Map Pages Shown in Gray Text
Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Circles

Note: All Parcels on this page are Block 2.

Rev. Feb. 27, 2006 Assessor's Map Bk. 071, Pg. 03
County of El Dorado, CA

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Overhead View of Lease Area and Distances to nearby residences:



Emergency 35kw Propane Generator and 4 Ton HVAC Noise Analysis:

○ **Equation and Calculation Method:**

The sound analysis methods and results are hypothetical only, using Sound Level and Distance calculations. These calculations do not take outside sounds, trees, hills, buildings, and other sound dampening variables into consideration, but, only raw sound levels after specific traveled distances which results in the worst case scenario for the sounds of the onsite backup generator and HVAC systems.

- The use of emergency equipment is exempted from these limits per section 130.37.20(B).

[Formulas to calculate the sound level \$L\$ in dB \(sound pressure level or sound intensity level\) in dependence of the distance \$r\$.](#)

Sound level L and Distance r	
$L_2 = L_1 - 20 \cdot \log\left(\frac{r_1}{r_2}\right) $	$L_2 = L_1 - 10 \cdot \log\left(\frac{r_1}{r_2}\right) ^2$
$r_2 = r_1 \cdot 10^{\left(\frac{ L_1 - L_2 }{20}\right)}$	$r_1 = \frac{r_2}{10^{\left(\frac{ L_1 - L_2 }{20}\right)}}$
Sound pressure level (dB) = Sound intensity level (dB)	
$L_2 = L_1 - 20 \cdot \log\left(\frac{r_1}{r_2}\right) $	$L_2 = L_1 - 10 \cdot \lg\left(\frac{r_1}{r_2}\right)^2$



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Sound Specifications:

- Emergency Generator Model: SG035 Generac
 - Average decibel (dBA) level at 23 feet = 64.9 dBA
- HVAC Model: ASDCA48
 - Average decibel (dBA) level at 50 feet = 57 dBA

Sound Specifications while taking the Sound Blanket into consideration:

- Emergency Generator Model: SG035 Generac
 - Average decibel (dBA) level at 23 feet = 58.11 dBA
- HVAC Model: ASDCA48
 - Average decibel (dBA) level at 50 feet = 46.36 dB

Findings:

1. Distance to the Nearest Property Line = 183'+/-
 - a. Generator Decibel level at 183' = 40.1 dBA
 - b. HVAC Decibel level at 183' = 35.09 dBA
2. Distance to the Nearest Residence = 600'+/-
 - a. Generator Decibel level at 600' = 29.78 dBA
 - b. HVAC Decibel level at 600' = 24.78 dBA

Conclusion:

After calculating all decibel levels at each nearby residence’s property line and actual residence, the onsite Emergency Backup Generator and HVAC systems are within El Dorado County’s noise level standards according to El Dorado County Title 130 Zoning and Noise Ordinance, Chapter 130.37 – Noise Standards.

Table 1 – Eldorado County Table 130.37.060.1
Noise Level Performance Standards for Noise Sensitive Land Uses
Affected by Non-Transportation Sources

Noise Level Descriptor	Daytime 7 a.m. – 7 p.m.		Evening 7 p.m. – 10 p.m.		Night 10 p.m. – 7 a.m.	
	Community / Rural Centers	Rural Regions	Community / Rural Centers	Rural Regions	Community / Rural Centers	Rural Regions
Hourly Leq, dBA	55	50	50	45	45	40
Maximum Level, dBA	70	60	60	55	55	50



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Operation Statement:

This project is an AT&T Mobility unmanned Telecommunication Wireless Facility. It will consist of the following:

NEW SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY.

1. **(1) NEW 12' WIDE GRAVEL ACCESS ROAD**
2. **(1) NEW 36' X 36' FENCED LEASE AREA**
3. **(1) NEW 6' CHAIN LINK FENCE**
4. **(1) NEW 12' WIDE DOUBLE ACCESS GATE**
5. **(1) NEW 122' MONOPINE TOWER**
6. **(1) NEW PRE-FAB EQUIPMENT SHELTER**
7. **(1) NEW GPS ANTENNA**
8. **(1) NEW 35KW PROPANE GENERATOR**
9. **(1) LP PROPANE TANK (500 GALLON)**
10. **(12) NEW ANTENNAS**
11. **(6) NEW RRUS-11, (10) NEW RRUS-32 & (3) NEW RRUS-12**
12. **(4) NEW SURGE SUPPRESSORS**
13. **(2) FUTURE 4' M/W DISH**

The facility will operate 24 hours a day 7 days a week. Maintenance workers will visit the site approximately once a month. A 12 foot wide access route will be created directly from Triple Seven Road. There will be minimal noise from the standby generator, turning on once a week for 15 minutes for maintenance purposes and during emergency power outages. The Facility is approximately 600 feet south of a residence and 187 feet east of the nearest property line. The surrounding area is covered with evergreen tree backdrops and rolling hills. The tower will be built to provide co-location opportunities and stealthing technology.

Fire Suppression System:

A 12 foot wide access route will be created directly from Triple Seven Road. A Hammer Head Fire Turnaround will be proposed within the access route. A Fire Department Knox Box will be located at the Facility's access gate and at the property's access gate. A 2A:20BC Rated Fire Extinguisher in a weather resistant cabinet will be mounted on the exterior wall of the proposed shelter. The facility is only 1.3 miles from the nearest El Dorado County Fire Station, #72.



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Conclusion:

Candidate A, 3100 Triple Seven Road, meets the FCC's mandated objectives for the targeted area of Cool and is the best choice for the surrounding area. The chosen location will meet the FCC's mandated coverage objectives with providing hi-speed broadband internet to homes in Cool's Targeted area of El Dorado County. The Stealth Monopine Tower design has been chosen to blend into the existing surrounding environment as the least intrusive means while filling AT&T's significant gap in coverage. Existing foliage on the subject parcel and surrounding parcels results in a stealthed compound from all directions. No oak woodlands will be impacted/removed for this location. No special species or protected animals will be impacted per the biological resource assessment prepared by Sycamore Environmental Consultants, Inc. The site exceeds the FCC's coverage requirements (LUs) for the targeted area. Additionally, this site covers 75% more LUs than the backup candidate located on Terrace View Court and between 45% and 55% more than the existing SBA Tower. The Proposed Wireless Facility is an allowed use on the property subject to the approval of a Conditional Use Permit.