



## Broadcast Engineering Services of Bonny Doon, Inc.

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Donald E. Mussell Jr. NCE-CBT  
Consulting Engineer

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### **94 dbu Overlap Statement New Translator for KPFA BNPFT-20030313AAO Santa Cruz, California**

This location, antenna and power level combination is clear of any prohibited overlap to any existing or proposed stations, with the exception of third adjacent KWAV Monterey (BMLH-20041028AIK). However, the proposed translator's 94 dbu contour does not overlap any populated area. The maximum distance to the extent of the overlap contour is 97.5 meters, and the closest permanent residence or public road is 154 meters distant from the proposed antenna location. An extensive search of this location included an on-site survey, personally conducted by this consulting engineer. The on-site survey revealed no structures or population inside the proposed 94 dbu contour area. This site is located in the woodland above the UCSC campus, and was originally surveyed and designated by this consulting engineer for use by the campus radio station, and was chosen because of it's geographic isolation and line of sight to the city of license.

The closest structure (a campus dormitory) is 154 meters @ 233 degrees true from the proposed antenna site. The closest corner of this building was measured with GPS equipment and found to be at the following location:

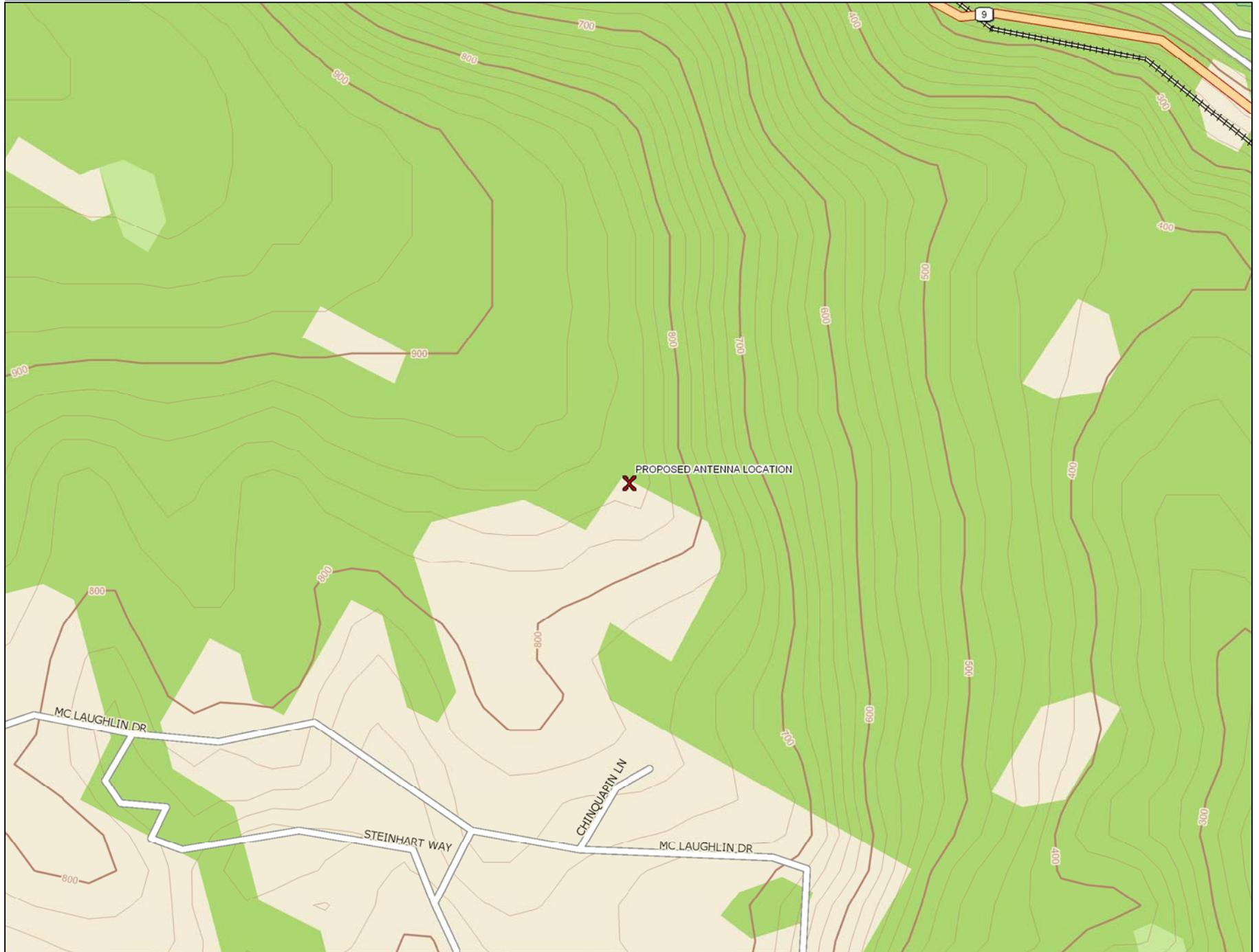
37 00 07 N  
122 03 09 W

This location is .154 KM (154 meters) from the base of the proposed antenna location. This is outside of the 97.5 meter diameter perimeter of the overlap contour. A topographic map showing the location of the proposed antenna, along with a second topographic map showing a scale of meters, along with a Google map aerial photograph of the area (with USGS grid layer) shows the area in question. There are no other structures that are closer to the proposed antenna site.

Based upon these exhibits, along with personal observations, the applicant can demonstrate that the area inside the overlap area is unpopulated.

Respectfully submitted,

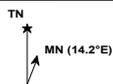
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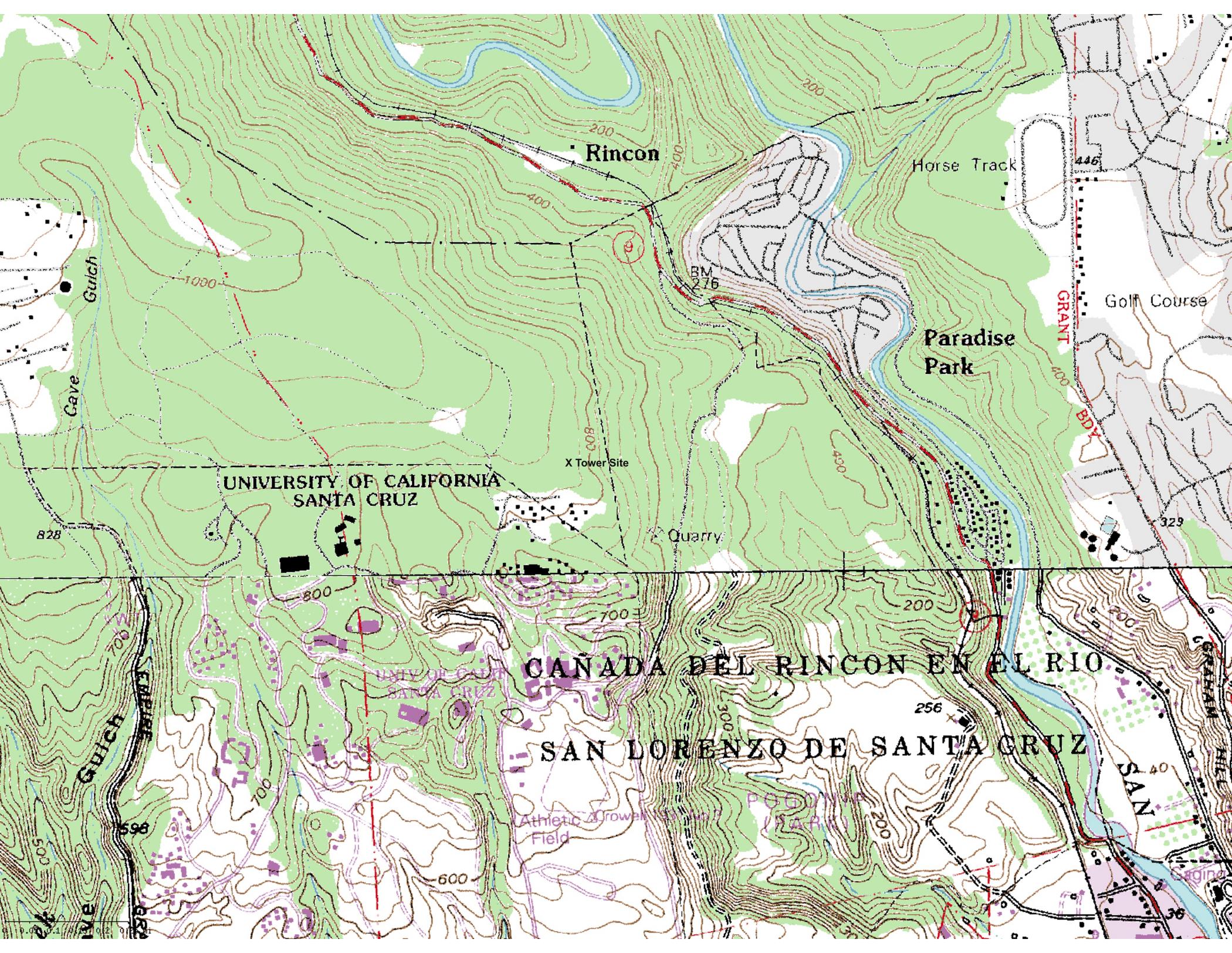


Scale 1 : 6,400



1" = 533.3 ft

Data Zoom 15-0



Rincon

Horse Track

Golf Course

Paradise Park

UNIVERSITY OF CALIFORNIA  
SANTA CRUZ

X Tower Site

Quarry

CAÑADA DEL RINCON EN EL RIO

SAN LORENZO DE SANTA CRUZ

Athletic Center  
Field

PO BOX  
1234

GRANITE  
HILLS

Argente



W122°02'53"

W122°02'55"

W122°02'57"

W122°02'59"

W122°03'1"

W122°03'3"

W122°03'5"

W122°03'7"

TOWER SITE

N37°00'3"

N37°00'9"

N37°00'5"

N37°00'7"

W122°03'9"

W122°03'11"

Image AMBAG  
© 2008 Tele Atlas  
elev 245 m

2008 Google™

37°00'07.02" N 122°03'08.46" W

Jul 2003

Eye alt 379 m

**AFFIDAVIT AND QUALIFICATIONS OF  
DONALD E. MUSSELL JR.**

State of California                    )  
Bonny Doon                            )  
County of Santa Cruz                )

Donald E. Mussell Jr. affirms that he is a consulting radio and electronics engineer; that he is Certified as a Broadcast Engineer, Class 1, by the National Association of Radio and Telecommunications Engineers, Inc., License #E1-00619, issued in 1985;

That he is recognized as a Broadcast Technologist by the Society of Broadcast Engineers, License # 22301, and a member of the Society of Broadcast Engineers since 1980;

That he held a First Class Radiotelephone License from 1975 until 1985, when it was replaced by a lifetime General Class Radiotelephone license (PG-12-20588), issued by the Federal Communications Commission in January of 1985;

That he has submitted many applications to the Federal Communications Commission for broadcast and auxiliary broadcast construction permits and licenses, and that his experience in Radio and Television broadcast engineering extends over three decades;

That he declares, under penalty of perjury, that the foregoing engineering exhibits were prepared by him or under his direction and supervision; and that the statements contained therein are true and correct to the best of his belief and knowledge.



Donald E. Mussell Jr. NCE-CBT  
Consulting Engineer  
May 22, 2008