





UPE05-0027

Building Pe. mit Number (List all associated with these documents)

Street Number

ODEGA HWY

Street Name

Community Code



APN

PRMD County of Strioma

S:/Records/RecladsAdmin/Microfilm Formats



PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 VENTURA AVENUE, SANTA ROSA, CA 95403-2029 (707) 565-1900 FAX (707) 565-1103

Application Fees / Invoice for: UPE05-0027

Project Address: 14100 BODEGA HWY TWI

Cross Street: VALLEY FORD-FFTTESTONE RD

APN:

026-130-016

Status: STARTED Printed: February 23, 2005

initialized by: DZANINI

Activity Type: C-USE 401

Description: USE PERMIT FOR AN ATTACHED TELECOM FACILITY

BLASI ADELINE Owner:

14100 BODEGA HWY

BODEGA CA 94922

707 953 0464

Applicant: TENENFIAUM NICOLE

436 143H IT SUITE 100 MEZZANINE

OAKLANI: UA 94612 415 377 0194

Fees:

			ψ H		
Item#	Description	Account Code	Tot Fee	Prev. Pmts	Cur. Pmts
			~~~~~~~		
750	SUSMP PROG DEVELOPMENT	025015-1341	22.00	.00	.00
1052	ENV REV CEQA EXCHPT DET	025015-3811	26.00	.00	.00
1130	USE THEMIT LEVEL I	025015-3823	1,691.00	.00	.00
			\$1 720 00	20.00	

\$1,739.00

\$1,739.00 **Total Fees:** 

\$0.00 Total Paid:

Balance Due: \$1,739.00

Refunds will not be authorized unless the umstances comply with established PRMD refund policy provisions.

When validated below, this is your receipt.

PAYMENT REC'D MJG

FEB 2 = 2005

\$1717.00

PERMIT AND RESOURCE PERMIT AND REPARTMENT AMONOS IC YTHUS

# Planning Application PJR-001

W	File	#: UPEO	2-005.	<del></del>
Type of Application:				<del></del>
☐ Admin Cert. Compliance ☐ Ag./Timber Preserve ☐ Cert. of Compliance ☐ Cert. of Modification ☐ Coastal Permit ☐ Design Review Admin.	☐ Design Review Comm./Ind ☐ Design Review Resideniia ☐ Design Review Signs ☐ Gelleral Plan Amendment ☐ Lot Line Adjustment ☐ Major Subdivision	al D Mobile Home O Ordinance Into C Second Unit F	Zoning Permit expretation	☐ Variance ☐ Zone Change ☐ Zoning Permit ☐ Ottler: Administrature (Utao ufth hearing hit)
Maring Address  DIVIAND, CA  STORY  TIST-37-7-094  Phone  Flowly  Signature	M ute 100 Meccanine 94612 State 210 208-3770 Fax 2/21/05 Date	Name 14100 Be Mailing Address BOOLEGA City/Town TOT - 9 Phone Signature	Dlasi Odega High Cr 949 53-0464 Fac	1e/Zip
Other Persons to be Notific	d: (Specify: Agent, Lender, Arc	chitect, Engineer, Su	rveyor, Other own	er(s)) NA
Neme	Name		Navine	
Malling Address	Mailling Address	· · · · · · · · · · · · · · · · · · ·	Mailing Address	
City/Town State	Zlp . Cky/Town	State/Zip	Clty/Town	State/Zip
Tibe	Title		Title	
Phone Fax	Phony	Fax	Fhone	Fax
Address(es) 26-130-1 Assessor's Farcet Number 11 Project Description: Adding S COL 125 Will Ye comp	hway to ix antennas (painted to ground strend from State next.	to match locks. Viewwith a fen	Stuna MONOO	ole. Four equament
Site Served by Public Water? Q y	es Gino Site Served by Publi	ic Server? Diyes kano	Number of i	new lots proposed
Residential Uses: (Enter numbers New Single Family Homes: New Manufactured Homes:	numbers where applicable)  Proposed:; Existing Et. plo : where applicable;  New Multi-Fem y Enha:  New Units For Sale;	yeas:New Second Units New Units For Rer	New Employees:	CQA Review?
1147.71	ion resolve planning violation? 🗆 yes	Ono; Penalty upplicable 、からまらしをリフ	e? 🗋 yes 🛈 no; Civil	Penalty Factor N/A
Previous Files:	50077 HUNSPE			23/05

Sonoma County Permit and Resource Management Department 2550 Ventura Avenue & Santa Rosa, CA & 95403-2829 & (707) 565-1900 & Fax (707) 565-103

# Use Permit - applemental Application Information PJR-022

· · · · · · · · · · · · · · · · · · ·	
Existing use of property:	griculture.
	Acreage: <u>278.18 AC</u>
Existing structures on proper	rty: Two howes Barn & accessory farme: g
Proximity to creeks, waterway Vegetation on site: Tree General topography: Notes Not	rith: RR South: LEA/Coastal zone  set: Let West: BR  ze, height, type): No new structure proposed.
Number of employees: Fu	Il time: D Part time: D Puruiq Construction:
Operating days:	Passenger: Trucks: 4-10 during Constru
Provider, if applicable: New noise sources (compres いどんい リリルのかんさ	Provider, if applicable:  scors, power tools, music, etc.): Air Conditioning Units  Capinlis.
Grading required: Cut Max:	Fill Max:
N/A Fill area:	Approx. total yds:
Vegetation to be removed:  Will proposal require annexa  Yes No	ation to a district in order to obtain public services:
Are there currently any haza processed on this site?  Dotco Will the use, storage, or proposet is authorized?  Fire safety information (exist	ridous materials (chemicals, oils, gasoline, etc.) stored, used or  Yes No  Lally cessing of hozardous materials occur on this site in the fitture if this  Yes No  butter us ting/proposed water tanks, hydrants, emergency access and turnaround,

₽002/00d

Y3/20/2000 TUB 14:30 PAI

Indemnification Agreement

"As part of this application, applicant agrees to defend, indemnity, release and hold harmless the County, his agents, officers, etiomeys, employees, boards and commissions from any claim, action or proceeding brought against any of the foregoing individuals or entities, the purpose of which is to attack, set acide, void or annul the approval of this application or the adoption of the environmental document which accompanies it. This indemnification shall include, but not be limited to, damages, costs, expenses, attorney fees or expert witness fees that may be asserted by any parson or entity, including the applicant, arising out of or in conjunction with the approval of this application, whether or not there is concurrent passive or active negligence on the part of the County. It, for any reason any portion of this indemnification agreement is held to be void or unanforceable by a court of competent jurisdiction, the remainder of the agreement shall remain in full force and effect."

Applicant Signi

Property Owner (if other than applicant)

Doto

11PE05-0027

File No.

NOTE:

The purpose of the Indemnification Agreement is to allow the County to be held harmless in frame of potential legal costs and liabilities in conjunction with permit processing and approval.

Sonoma County F. ..it and Resource Management Department 2560 Ventura Avenue ❖ Santa Rosa, CA ❖ 95403-2829 ❖, (707) 565-1800 ❖ Fex (707) 856-110

MANUFACT GENERALISM STATEMENT GAS AND

PHY: 12/10/7

# PROJECT DESCRIPTION/WRITTEN STATEMENT

# Cingular Wireless/Pacific Bell Wireless Proposed PCS Telecommunications Facility 14100 Bodega Hir Phway Bodega Bay, CA 94922 APN: 026-13-016

### Proposed Use

Cingular Wireless, formerly Pacific Bell Wireless, is currently deploying the infrastructure of its wireless communications network in California. Cingular Wireless proposes to collocate on an existing 65'monopore adding six antennas and four equipment cabinets painted to match the existing installation.

Construction will take place between the hours of 8:00 am and 5:00 pm, Monday through Friday. The construction should take approximately three weeks to complete the project. A team of 8-10 individuals will be on site during construction. The number of employees will vary from day to day depending on what stage — construction is in.

Cingular will utilize the fo'lowing vehicles and equipment to complete construction:

Two flat bed trucks, two - three standard pick up trucks, a backhoe, a dump truck, a concrete truck, a drilling rig a front end leader and a crane. The crane and drilling rig will be used for approximately 5 days and the vehicles will make 4-6 trips during construction.

The following materials will be used to contruct the site: PVC pipe, chain link fencing, crushed rock, steel rebar, contrete, nuts, belts, electrical panels, electrical wire/cable, paint, pipe glue, and caulking. All materials will be stored at the site.

Cingular will not be seiling any goods on site and will not be producing any solid or liquid wantes. Water will not be required to build the site. The existing buildings on site will not be used. The equipment cabinets will be screened behind a 6' chainlink fence blending with the existing structures on the property. These refer to the attached site plan for further detail.

Cingular will not utilize any outdoor lighting or outdoor sound amplification system during construction.

Cingular will utilize existing roads and parking to access the site. After the initial construction, no noise, odors, dust, glare, or additional traffic will be generated by this project. Cingular Wireless does not plan any future use for this site other than the use being proposed by this application.

#### Type of Technology

As previously mentioned, Cingular Wireless is currently deploying the infrastructure of its wireless communications network in California, called a "Personal Communication Service" (PCS). PCS is, in essence, simply another form of radio communication. PCS uses radio frequencies to send and receive information or conversations from an antenna to a wireless telephone. The PCS technology works through a series of transmitting facilities, which carry and hand off phone signa's as a caller moves from one area to another. As the caller moves from one cell area (the area where there is a transmitter and an antenna) to the next, signals to and from the tirst cell area fade and then "hand" the call off to an available channel in the cell area where the caller is entering.

#### Consumer Services

The consumer service offered by Cingular Wireless's PCS network is wireless voice communication. In addition, PCS phones can receive pages, e-mail, and news and stock information.

#### Performance Agreement

Cingular Wireless is prepared to enter into an agreement with Sonoma County to remove abandoned facilities, to maintain any required landscaping, and to perform periodic monitoring of radio frequency (RF) emissions. Cingular is also prepared to defend, indemnify, and hold Sonoma County harmless from any claims, actions, or proceedings from connection with the project.

## Co-Location and Shared Location Standards

The proposed facility location would be a shared or co-location site with T-Mobile. Cingular has a non-exclusive lease with the property owner. The design allows for the consolidation of future facilities (none are planned at this time).

#### Radio Frequency Report

This project complies with the Federal Communication Commission (FCC) standards. FCC guidelines are based on standards and recommendations developed by expert committees of physicians, scientists and engineers, most of whom are researchers from leading universities and government research laboratories.

These guidelines were extensively reviewed and endorsed by the major government agencies responsible for public health and the environment – the U.S. Food and Drug Administration, the Environmental Protection Agency, the Occupational Safety and Health Administration, and the National Institute for Occupational Safety and Health. The standards and guidelines, which are based on careful scientific review and interpretation, prescribe specific exposure levels that are extremely protective.

The radio frequency emissions transmit non-ionizing radio waves. Non-ionizing electromagnetic emissions, at the low levels associated with this type of wirek is technology have not been proven to be harmful to the public. Police/Fire/EMS radios, television broadcasts, CB radios, microwave ovens, and a variety of common household electronics including garage door openers and baby monitors all produce non-ionizing electromagnetic emissions.

Please refer to the attached "Radio Frequency Report Analysis" prepared by Diamond Services for additional information. This report is based on predicted RF levels. Predicted levels are determined by the theoretical maximum field strength (as predicted by the FCC equations contained in 08165). Cingular will measure the actual RF levels once the proposed facility is in operation.

# Road and Accessway Standards

Cingular Wireless will utilize existing roads and parking to access the site. No new access roads or parking spaces are required for the facility. The size of the park ag area is not limited to the minimum necessary to accommodate maintenance vehicles.

# Vegetation and Landscaping Standards

Cingular Wireless is not proposing any landscaping at this time.

#### Noise and Traffic Standards

Cingular's equipment operates quietly or virtually noise free. After construction, Cingular's maintenance personnel will access the site less than twice a month.

# Visual Compatibility and Facility Design Standards

The proposed pole was designed to conform to the existing Sonoma County policy for telecommunication towers. The existing monopole meets the setbacks for the LEA zoning district and the scenic road overlay. The existing 65' T-Mobile monopole would remain in place and an array of six antennas is proposed to be added at the 55' height. By painting the equipment, antennas and brackets to match the existing pole, the antennas will be screened to blend into the existing environment. Please see attached photosims for further detail.

## Alteknatives Analysis

Cingular Wireless prefers to develop projects and co-locate at locations where there is an existing wireless installation, thus minimizing the visual impact in the community. This location was specifically chosen as the best property for this facility due to the existing monopole currently on site.

#### OWNER AUTHORIZATION AGREEMENT

Market: (
Site Number: 1

California NB012-01

Site Name:

Bodega Hwy & Hwy 12

Site Address:

14100 Bodega Highway, P. dega, California 94922

Re: Property described as: 14100 Bodega Highway, Bodega, California, 94922 (the "Property"). Adding A. Blasi, is the owner/representative of the Property (the "C wner") and has the authority to enter into a lease agreement with NEW CINGULAR WIRELESS PCS, LLC a Delaware limited liability company ("Carrier") concerning the portion of the Property that Carrier seeks to occupy.

Owner hereby grants Carrier and its agents a revocable right to enter the Property to perform any reasonable tests that Carrier deems desirable at Carrier's expense to determine the feasibility of constructing and operating its communications facility upon the Property, including but not limited to 1) radio frequency testing; 2) soils testing; 3) environmental audits; 4) boundary surveys; 5) on-site feasibility assessment; and 6) utilities ordering, coordination and installation; and/or 7) filing of zoning applications (the bess Rights").

Owner may revoke the Access Rights at any time by delivering written notice to Carrier by certified mail, return receipt requested, at the following address:

New Cingular Wireless 4420 Rosewood Drive Bldg. 2, 3rd Floor Pleasanton, CA 94588

Attn: Network Deployment Manager

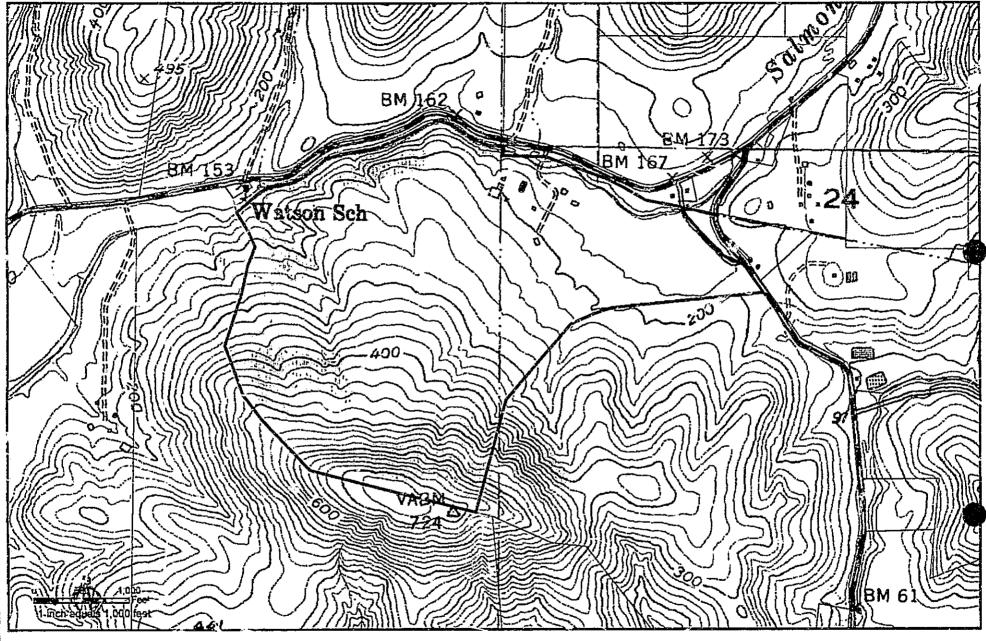
The termination notice will be effective three business (3) days after actual receipt by Carrier, provided, however, that Carrier may still enter the Property to remove any equipment it has placed there.

Carrier screes to repair any damage to the Property caused 1. Carrier's use of the Access lights. Carrier fures to indemnify, defead and hold Owner harmless from and against any and all damages, losses and the arising out of or resulting from any claim, action or other proceeding that is based upon any negligent act or omission or willful misconduct of Carrier or its employed or agents, arising in connection with the Access Right.

EACH PARTY ACKNOWLEDGES THAT THE OTHER HAS MADE NO REPRESENTATIONS OR COMMITMENTS THAT A LEASE AGREFMENT CONCERNING THE PROPERTY WILL BE ENTERED INTO IN THE FUTURE.

This agreement constitutes the entire understanding b, tween the parties regarding the Access Rights. Any prior understandings, whether oral or written are superseded. This agreement is governed by the laws of the State in which the Property is located.

CARRIER	OWNER
NEW CINGULAR WIRELES, PCS, LLC, a Delaware limited liabit, y company  Date:	ADLINE A. BLASI,  By: <u>Adline A. Blasi</u> Name: <u>Adline Blasi</u>
F. Kevin Flaherty	Address 400 Pleasant AUE  SHATAROSA CA  95403  FEB 9 2006



APN C26-130-016

Map Scale and Reproduction methods limit precision is physical features displayed. The map is for Resourch purpose only, and is not suitable for percei-specific decision making. The parceis contained here-in are not intended to represent surveyed. Is to, S2s-specific studies are required to draw parcel-specific conclusions. Assessor's parcei data are compart as of the data indicated. For more current parcei data consult the County of Scorera Assessor's Office.

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Geographic Coordinates: California State Plane
 Zone III, North American Datum 1963 (NAD 63).
 Parcel Boundaries derived from 1:5000 loiche

 Partial Boundarias derived from 1,0000 locale macs and rayland using Assessor Partial Maps.
 Data is for planning purpose.

Questions regarding this map and the data horsin should be directed to PRUMD (707)- 565-1900.

Use concretent, netrictions and legal prenquisites for using the distalled, sittle seasons is granted, include acknowledgment of this state as source. Access constraints explied to assure the protection of privacy or interfectual property. Tuchnical assistance is not provided to the consumer by the PRAID for the use of this data. Information about the distribution of and options for obtaining the data set and options for obtaining the data set and open PRAID. All Historicions of data are comprehend by the County of Sources, Calebrainia.

Access restrictions wild legal prerequisities for accessing the data and apply to assure the protection of privacy or interectual properly. Umilations on the data as of including the copyring, reproducing and or transmisting of data by any masers in prohibited without written permission from the Permit and Resource Management Department (PPMD). Younty of Socrets, Cellbridge.

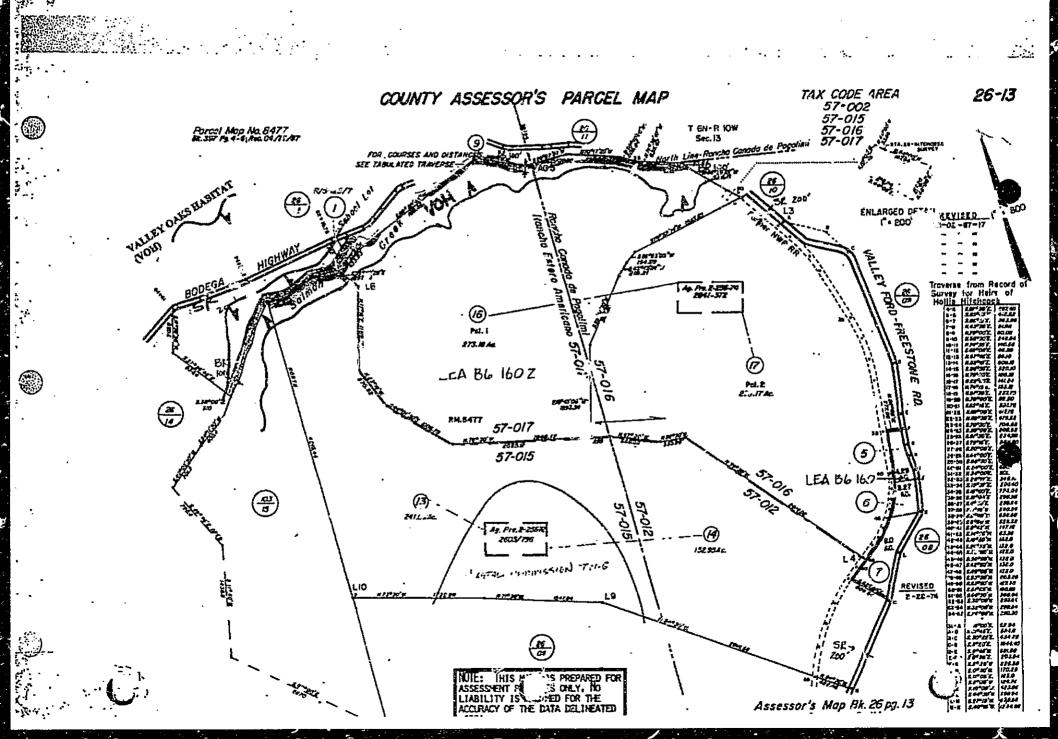
County of Sonoma

#### Permit and Resource Management Department

2550 Ventura Avenue, Santa Ross, California 95403 707-565-1900 FAX 707-565-1103







## Statement of Substantial Conformance

UPE05-0027

14100 Bodega Highway, Bodega

APN: 026-13-016

On May 3, 2005, a Use Permit was approved for the addition of six antennas and four equipment cabinets to an existing wireless monopole facility at 14100 Bodega Highway.

Due to construction issues, the location of the equipment cabinets required re-location from the south face of the existing compound to the north face of the existing compound. The revised equipment location is 15' to the North of the previously approved location.

The new location of the equipment is in substantial conformity with t.  $\Rightarrow$  use permit approval recently issued.

Agreed and Accepted

Agreed and Accepted

Doug Zaruni

Date

Nicole Tenenhaum

Date

RECEIVED

AUG 2 y 2005

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT. COUNTY OF SONOMA

# **ABBREVIATIONS** ANCHOR BOLT ANCHOT BOLT ADJUSTABLE ALIMPHIM APPROXIMATE ARCH TECTURAL AS SHOWN AMERICA*, WATE GALGE BUILDM; BLOC*, BLOCKONG PERSONAL COMMUNICATIONS SER ICES PLATE PLYWOOD REDWOOD REDNFORCE REMINOUR REMINOUR REMINOUR REMINOUR REMINOUR SEE A LOA DIMES. SONDOUR SECTION SOULARE FOOT SHEAT SHEAT SHEAT SHEAT SHEAT SHEAT SHEAT SHEAT SHEAT STANDARD STANDARD STEEL STRUCTURAL DRAWOLL STANDARD & GROUPS TEMPEND GLASS TEMPEND OF OF CONCRETE TOP OF CAMBONITY TOP OF SAME BRICK MASONRY UNIT BOTTOM OF BOTTOM RASE TRANSCEIVER STATION BASE TRANSCRIVER STATIO BETWEEN CARNET CENTERINE CAST IN PLACE CELING CLEAT CONCRETE MASONRY UNIT ONLESS TO MASONRY UNIT COLUMN? CONCRETE CONNECTION CONSTRUCTION JOINT CONTINUOUS CENTER COPPER DOUBLE DETAIL DE TOP OF WALL TUBE STEEL TOP AND BOTTOM TYPICAL UNCFORM BUILDING CODE UNLESS OTHERWISE MOTED UNLESS OTHERWE VERBCAL VERBY IN FIGUD WITH WITHOUT WHERE OCCURS WOOD EXPANSION JOINT EXTERIOR FACE OF CONCRETE FACE OF MASORY FACE OF WALL FROSTRID FLOOR FLOOR FLOOR GAUGE GALVANIZED GLU-LARRIATED BEAM GROUND HORIZONTAL EXPANSION JOINT



# CN0371 (NB-012-01) **BLASI PROPERTY**

# RECEIVED

AUG 2 9 2005

PERMIT AND RESOL'RCE MANAGEMENT DEPARTMENT COUNTY OF SONOMA

#### SHEET INDEX SYMBOLS AND MATERIALS PROJECT SUMMARY CROUT OR PLASTER TITLE SHEET APPLICANTA ESSEE: DOSTING ANTENNAS C1 SITE SURVEY DETAIL REFERENCE (E) Block WIRELESS 111 ASPHAL **A1** SITE PLAN CONTRACTOR (T, MASONR ROSENIOGO DR. BUILDING 2, 3/4 JLOOR A DETAIL IN SECTION CONCRETE EQUIPMENT PLAN PLEASANTON, CA. 94588 CONTACT: CHANE SLATTERY (925) 227-4254 ENTER PROPERTY CONCRETE ELECTRIC BOX **EQUIPMENT & ANTENNA ELEVATIONS** HTRA3 PARTIAL HOCKS STRUCTURAL DETAILS ☆ DOIT POLE CRAVEL E1.1 ELECTRICAL SITE PLAN 0 STREET OF PLYMORD **ADLINE BLASI** FND. MONUMENT PROPERTY OWNER: DAL RECHT **E1.2 ELECTRICAL EQUIFMENT PLAN** SWO SWO SPOT ELEVATION **ELECTRICAL DETAILS** SET POINT SCHEDULE (TEM WOOD WOOD **ELECTRICAL DETAIL?** COAX CABLE RUN TO ANTENNA -4-4-FROJECT DESCRIPTION: WOOD BLOCKHO RS SIGNAGE THE PROJECT CONSISTS OF THE INSTALLAT ALL AND OFFICATION OF ANTONIAS AND ASSOCIATED ECONOMICS! CARNESS FOR CINGULAR WRELESS PERSONAL COMMUNICATIONS (PCS) NETWORK. A TOTAL OF SIX ANTENNAS ARE TO BE MOUNTED ON A DOSTING MONOPOLE AND FOUR ECOMPMENT CARNESS ARE PROPOSED AT THIS SITE. THE SYSTEM WILL TRANSMIT AND RECEIVE RADIO STONALS FOR A REGICHAL, PCS NETWORK. REVENIA N4 NOTES STEEL ELFVATION 1114 ~ ?-- T- TELEPHONE CONDUIT N2 NOTES ---- CENTER LINE NOTES SHEET NOTE ---- PROPERTY LINE NOTES WATCH LIKE HAZARDOUS MATERIALS NOTES N5 EACH BIS FOURMENT CABINET HAS A MAXIMUM OF FOUR BATTERES. EACH BATTERY CONTAINS 3.3 CHARTS OF ACID FOR A MAXIMUM OF 13.2 CHARTS OF ACID FOR BIS CABINET.

VICINITY MAP

## **PROJECT TEAM**

HORIZONTAL HEIGHT MISIOE DIAMETER INCLUDE LONGTHOMAL

MASCHRY MAXAUM MACHINE BOLT MECHANICAL

MECHANICAL, MANUFACTURER MINARUM MISCELLANEOUS METAL NEW

NOT IN CONTRACT NOT TO SCALE NUMBER

NATIONAL ELECTRIC CODE



# Land Services, Inc.

5073 West Liv Toxics Boulevord, Suitz 215 11 voscoton, Co.Jornia 94588



436 14th Street Mezzutine Level Sulle 100 Uo's or d. CA 94612

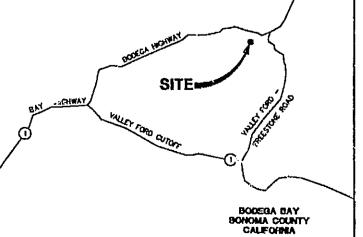
Site Acquisition: Michael Graff Let: 510-410-3547

Planner: Nicole Tenenbourn TEL: (519) 208-3055



3860 Industrial Way Benicia, CA 94510 Tel: (707) 751-5900 Fax: (707) 751-5901





#### SITE INFORMATION

#### SITE ADDRESS

14100 BODEGA KRGHWAY **BODEGA BAY, CA 94922** 

APN: 026-17 218

#### DATUM POINTS

NAD63 DATUM LAT. N 37°21'20.12° LONG. W 122°55'48.68°

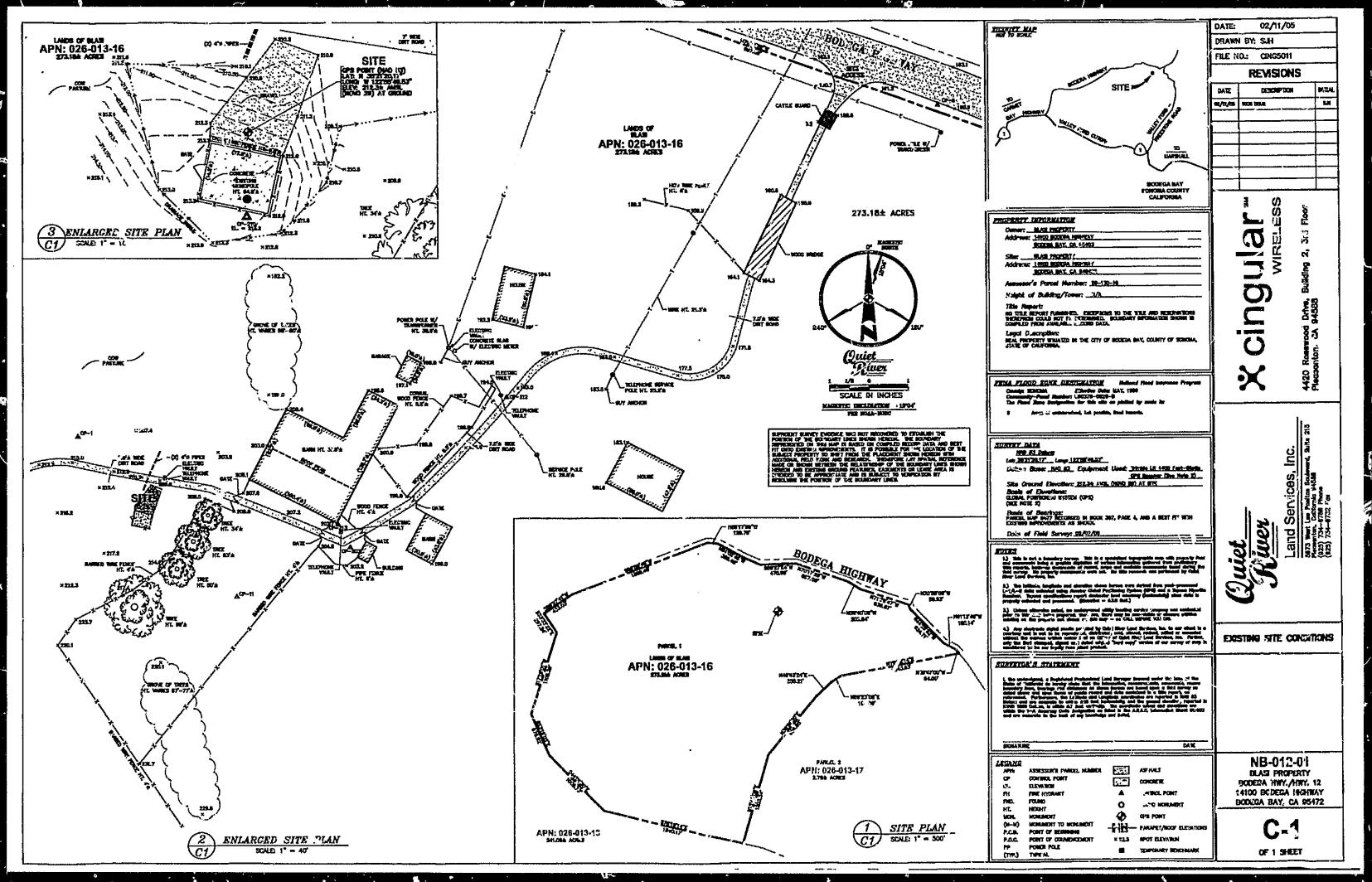
Services Engineering, Cansaction & Testing Diamond

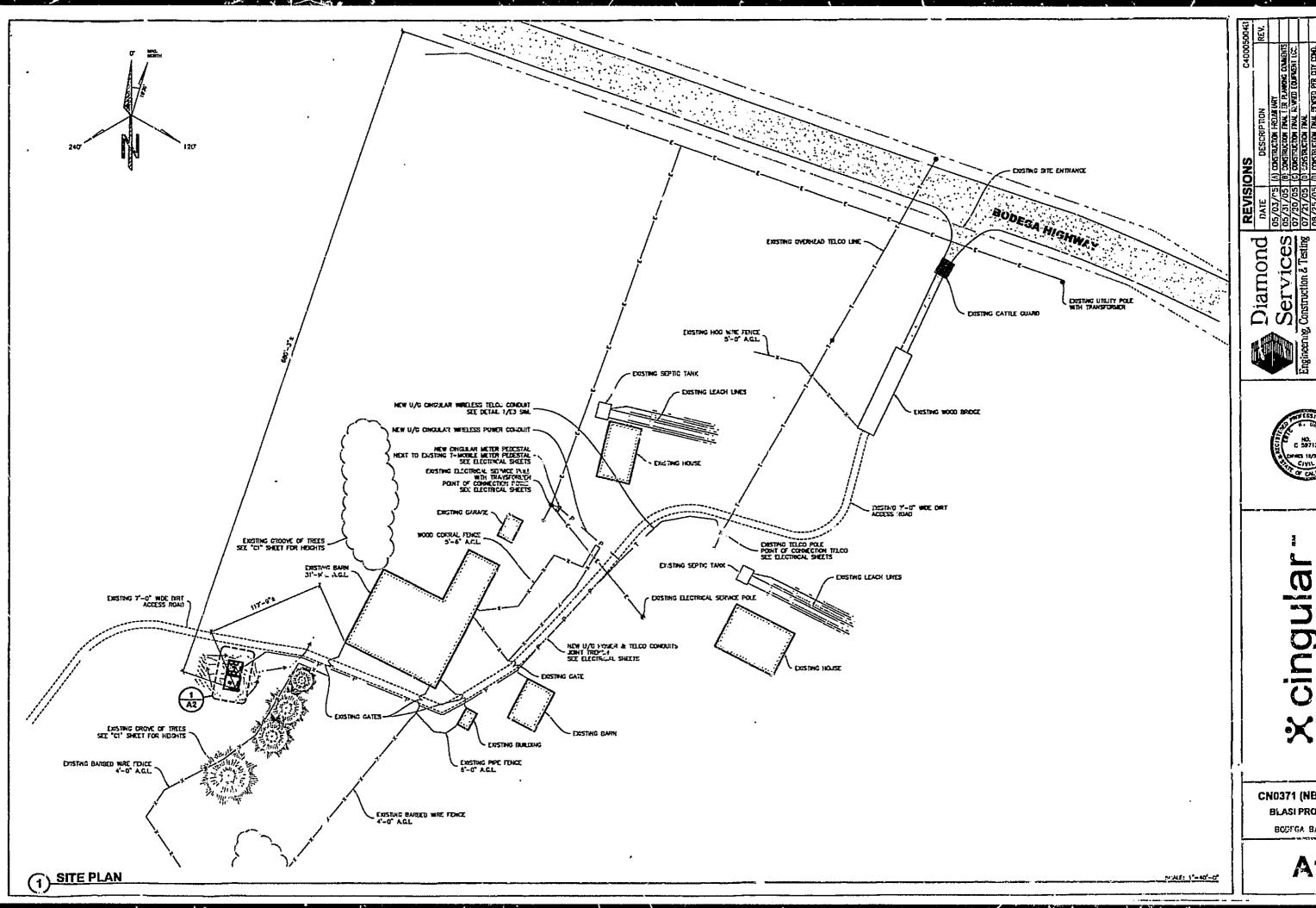




CN0371 (NB-012-01) **BLASI PROPERTY** 

BODEGA BAY, CA



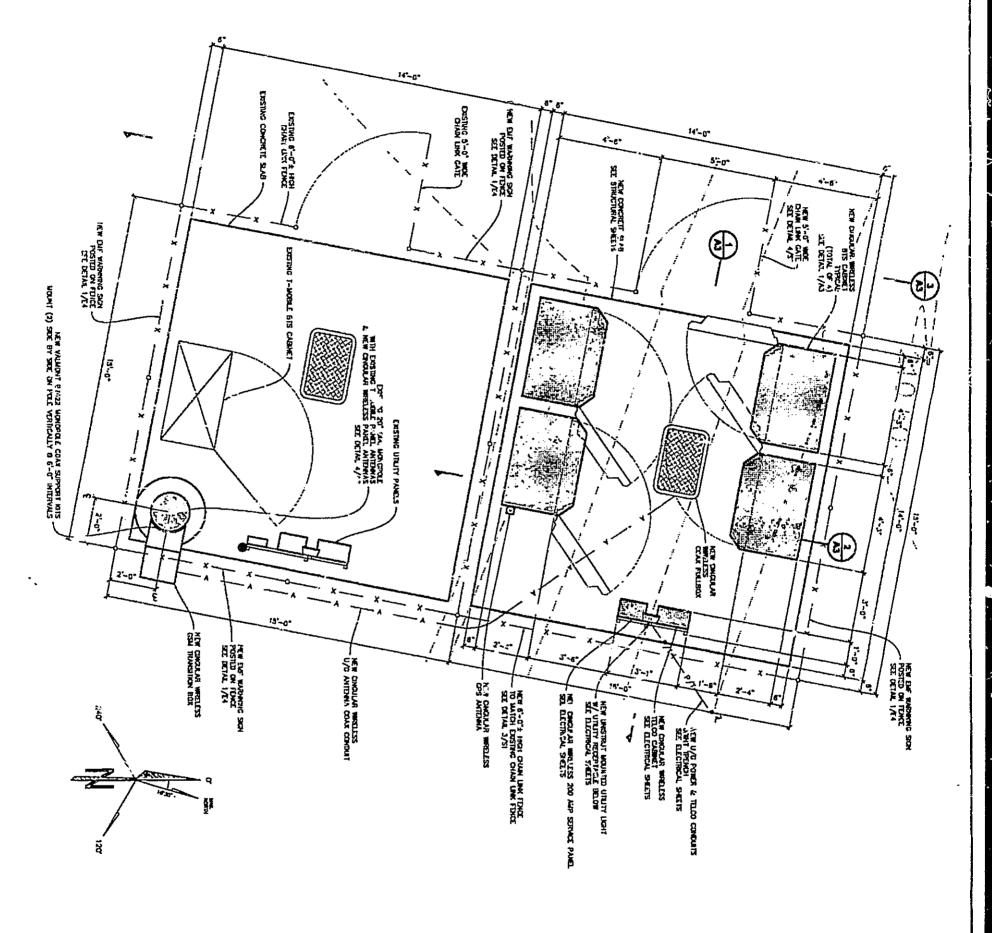


cingular"

CN0371 (NB-012-01) **BLASI PROFERTY** 

BODEGA BAY, CA

AT



GN0371 (NB-012-01)
BLASI PROPERTY
BODEGA BAY, CA

X cingular -

4420 Rosewood Dr. Bldg. 2, 3rd Floor

Ficasanton, CA 94568

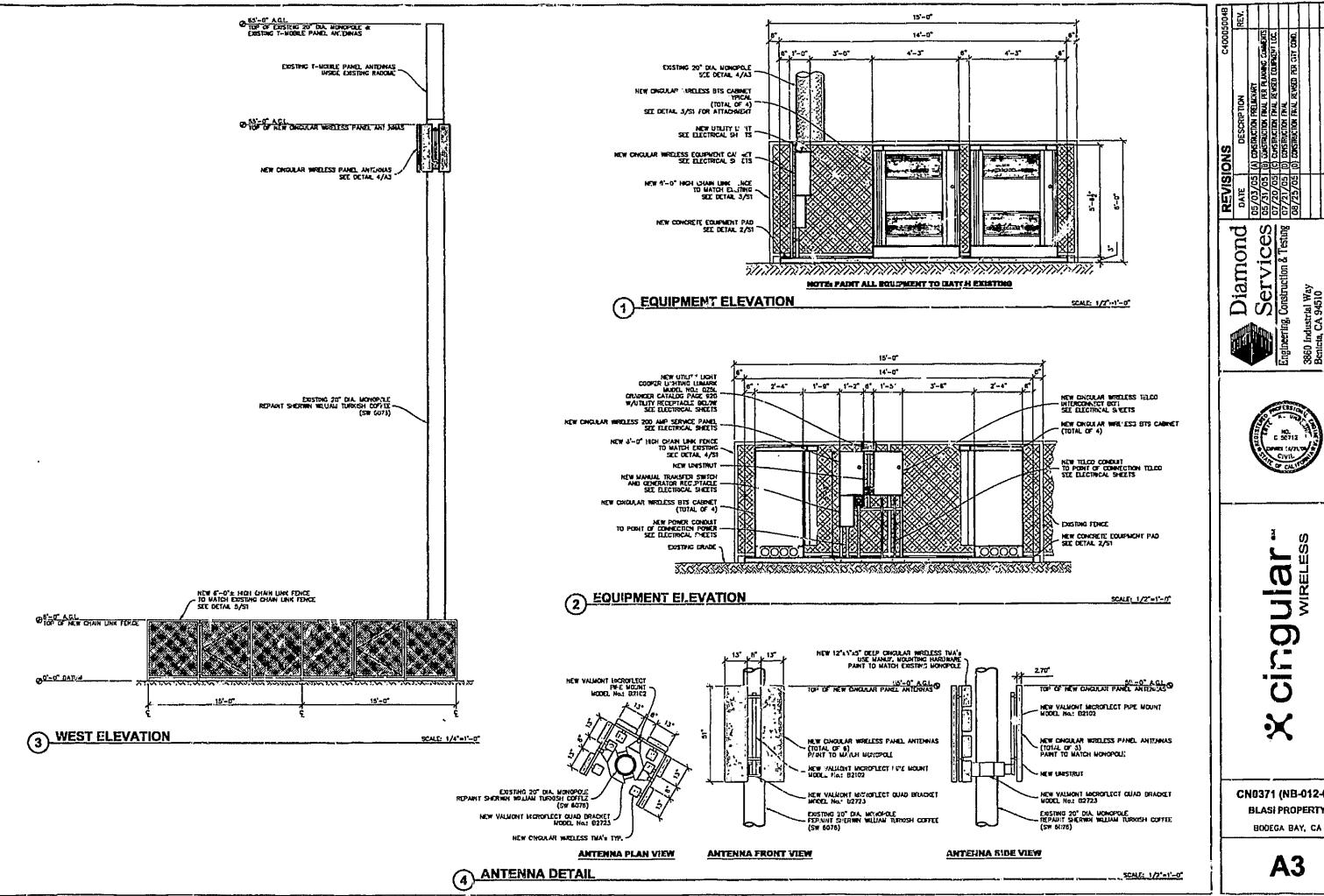
C SOL



Engineering, Construction & Testing

3860 Industrial Way Benicia, CA 94510 Tel: (707) 751-5800 Fax: (7(7) 751-5901

REVIS	IONS C4000	5004B
DATE	DESCRIPTION	REV.
05/c3/03	(A) CONSTRUCTION PRELIMINARY	
05/31/05	(8) CONSTRUCTION FINAL PER PLANNING CONNENTS	
07/20/05	(C) CONSTRUCTION FINAL REVISED EQUIPMENT LOC.	
07, 21/05	(0) CONSTRUCTION FINAL	
08/25/05	(D) CONSTRUCTION FINAL REVISED PEP CITY COND.	<u> </u>
		<u></u>



3860 Indu Benicia, C



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CN0371 (NB-012-01) **BLASI PROPERTY** 



Diamond Services 3860 Industrial Way Benicia, Ca 94510 Ph: (707) 751-5900

Fax: (707) 751-5901

RADIO FREQUENCY ANALYSIS
PROPOSED PERSONAL COMMUNICATION SYSTEM
BASE STATION
CINGULAR WIRELESS SITE NO. NB 012-01
"BLASI PROPERTY"
14100 BODEGA HIGHWAY,
BODEGA BAY, CALIFORNIA

By: Diamond Services Date 02/22/2005



Dian and Services 3860 Industrial Way Benicia, Ca 94510 Ph: (707) 751-5900

Fax: (707) 751-5900

Report Summary

Based upon information provided by Cingular Wireless, and through physical verification of the emitted RF field strength, and through calculations of expected field strength, it is the engineer's opinion that the proposed Cingular Wireless Personal Communication System site which will be located at 14100 Bodega Highway, Bodega Bay, California will comply with the FCC's current prevailing standard for limiting human exposure to RF energy. Therefore, no significe impact on the environment or general population is expected. The measured and calculated electromagnetic field strength in normally publicly accessible areas is less than the existing standard allows for general population uncontrolled exposure. All accessible areas around the existing monopole were surveyed at ground level, and the maximum measured RF level was 0.04% of the limit for general population uncontrolled exposure. The maximum level was measured approximately 50' southwest of the existing monopole.

In areas normally accessible to the general public, the effect of the proposed Cingular Wireless antennas at ground level is calculated to be 0.91% of the existing standard for general population 1...ontrolled exposure.

The conbined effect of the existing measured RF level and the maximum calculated additional contribution at ground level for general population uncontrolled exposure is 0.95% of the existing standard for general population uncontrolled exposure.

# General Recommendations

For personnel who maintain or work near the antennas, a training program in exposure to RF fields is recommended, since any access closer than 12 feet to the face of a Cingular PCS antenna could expose personnel to RF field levels greater than the occupational limits, and such access should be prohibited. At this site, public access to the face of an antenna would be difficult. Maintenance personnel should be instructed to contact Cingular Wireless prior to working in front of an antenna.

RF warning signs should be posted at the base of the monopole.

Diamond Services

Background

Diamond Services¹ has been retained by Cingular Wireless to conduct a Radio Frequency (RF) electromagnetic analysis for a Personal Communication System base station to be located at 14100 Bodega Highway, Bodega Bay, California. This analysis consists of a review of the proposed site conditions, calculation of the estimated RF field strength of the PCS base station, and the provision of a comparison of the estimated field strength with the Federal Communication Commission (FCC) recommended guidelines for human exposure to RF electromagnetic fields.

Site Description

Based upon the drawings provided by the design engineer, six proposed panel antennas will be mounted on an existing monopole, approximately  $50^{\circ} - 8^{\circ}$  (to bottom of antennas) above ground level.

The antennas will be oriented such that the main lobes are oriented toward the horizon. Normal public and occupational access to the front of the antennas is not expected due to the mounting location and method utilized.

RF Field Strength Calculation Methodology

A generally accepted method is used to calculate the expected RF field strength. The method uses the FCC's recommended equation which predicts field strength on a worst case basis by doubling the predicted field strength. The following equation is used to predict maximum RF field strength:

Equation 1 
$$S = \frac{(2)^2 PG}{4\pi R^2} = \frac{PG}{\pi R^2} = \frac{EIRP}{\pi R^2}$$

Where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

The ground level effect of the Cingular Wireless GSM 850 emissions was calculated using a maximum downtilt of 5°, and a maximum ERP of 400 watts. Results were calculated for a height of 6'-6" above ground level. Using these factors, the maximum calculated GSM 850

¹ PGI Group Incorporated d.b.s. Diamond Services

² Reference Federal Communication Commission Office of Engineering Technology Bulletin 65

#### **Diamond Services**

fields at ground level are 0.48% of the existing standard for general population uncontrolled exposure.

The ground level effect of the Cingular Wireless GSM 1900 emissions was calculated using a maximum downtilt of 5°, and a maximum ERP of 600 watts. Results were calculated for a height of 6'-6" above ground level. Using these factors, the maximum calculated GSM 1900 fields at ground level are 0.43% of the existing standard for general population uncontrolled exposure.

At ground level, the combined effect of the GSM 850 and GSM 1900 RF fields is calculated to be a maximum of 0.91% of the applicable limit for general public uncontrolled exposure.

See Table 1 for the FCC's guidelines on Maximum Permissible Exposure (MPE). Note that the RF ranges referenced for this analysis are the ranges of 300 - 1500 Mhz, and 1500 - 100,000 Mhz shown in Table 1, which is included in Appendix A.

# RF Field Strength Survey Methodology

Weston Frey, of Diamond Services utilized an ET&DC Model RFP-04 Smart Fieldmeter with model Pl-01 probe to quantify the RF field strength at various points around the existing monopole, at ground level. The calibration date for equipment is April 13, 2004. The maximum observed field was 0.0004 mW/cm². The survey was performed on 12/16/2005 at approximately 10:50:00 AM.

# **Exposure Environments**

The FCC guidelines incorporate two separate tiers of exposure limits that are dependent on the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. The decision as to which tier applies in a circum situation should be based on the application of the following definitions.

Occupational/controlled exposure limits apply to situations in which 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. Occupational/controlled 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 (see below), 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 means.

General population/uncontrolled exposure limits apply to situations in which the general public may be 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.

For purposes of applying these definitions, awareness of the potential for RF exposure in a workplace or similar environment can be provided through specific training as part of a RF safety program. Warning signs and labels can also be used to establish such awareness as long as they provide information, in a prominent manner, on risk of potential exposure and instructions on methods to minimize such exposure risk. For example, a sign warning of RF exposure risk and indicating the individuals should not remain in the area for more than a certain period of time could be acceptable.

Another important point to remember concerning the FCC's exposure guidelines is that they constitute exposure limits (not eraissio. limits), and they are relevant only to locations that are accessible to workers or members of the public. Such access can be restricted or controlled by appropriate means such as the use of fences, warning signs, etc., as noted above. For the case of occupational/controlled exposure, procedures can be instituted for working in the vicinity of RF sources that will prevent exposures in excess of the guidelines. An example of such procedures would be restricting the time an individual could be near an RF source or requiring that work on or near such sources be performed while the transmitter is turned off or while power is appropriately reduced.

**Diamond Services** 

Qualifications of Reporting Engineer

Mr. Runte has been involved in the measurement of RF emissions since 1979. He has designed numerous RF systems including both site design and RF system design. He is a registered Professional Engineer in the state of California, and all contents of this report are true and correct to the best of his knowledge.

Signed:

Matthew J. Runte, P.E.

Man Think

Date: <u>02/22/2005</u>

No. E015450 E 0

**Professional Engineer Stamp** 

#### APPENDIX A

# **Term Definitions**

Exposure Exposure occurs whenever and wherever a person is subjected to electric, magnetic or electromagnetic fields other than those originating from physiological processes in the body and other natural phenomena.

Exposure, partial-body. Partial-body exposure results when RF fields are substantially nonuniform over the body. Fields that are nonuniform over volumes comparable to the human body may occur due to highly directional sources, standing-waves, re-radiating sources or in the near field.

General population/uncontrolled exposure. For FCC purposes, 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.

Maximum permissible exposure (MPE). The rms and peak electric and magnetic field "rength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful offer and with an acceptable safety factor.

Occupational/controlled exposure. For FCC purposes, 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. Occupational/controlled 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 (see definition above), 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 means.

Diamond Services

#### Table 1. LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

#### (A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ² )	Averaging Time $ 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	ì.0	6
300-1500			f/300	6
1500-100,000			5	6

#### (B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time  E  ² ,  H  ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/1	(180/f ² )*	30
30-300	27.5	0.073	Ò.2	30
300-1500	a- w		f/1500	30
1500-100,000	~=	_	1.0	30

f = frequency in MHz

NOTE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

^{*}Plane-wave equivalent power density



April 4, 2005

Sonoma County
Permit & Resource Management Department
2550 Ventura Avenue
Santa Rosa, CA 95403-2829

RE: UPE05-0027

**Cingular Wireless Use Permit Application** 

14100 Bodega Highway

APN# 26-130-16

Dear Doug:

Please accept this correspondence as proof of providing notice to neighbors of the pending Cingular Wireless application with Sonoma County. Neighbors within a 300 ft. radius were sent the attached letter with a set of photosimulations.

Additionally, enclosed please find the letter sent to neighboxs, a certification from the label provider, a list of addresses and the assessors parcel map.

If there are any questions, please do not hesitate to contact me at 415-377-0194. welcome the opportunity to move forward with this application. Please let me know it I can be of any assistance with this project.

Sincerely,

Nicole Tenenbaum Zoning Manager To Neighbor of 14100 Bodega Highway, Bodega, CA

RE: Cingular Wireless Use Permit Application 14100 Bodega Highway APN# 026-13-016

Dear Neighbor:

Cingular Wireless is submitting a Use Permit Application for a wireless communications facility that will be part of its Personal Communications Services (PCS) network. The proposed project site is located at 14100 Bodega Highway which is zoned LEA-B6, Land Extensive Agriculture.

Please note this correspondence shall serve as official notice of submittal of a zoning application to the Sonoma County Permit and Resource Management Department as per the requirements in the zoning ordinance.

Cingular Wireless proposes to attach six antennas to the existing 65' monopole. The antennas will be painted to match the existing monopole to blend with the present installation. Each antenna wall measure approximately 13" wide, 8" deep and 51" tall. Please refer to the attached photosimulation for detail. The corresponding equipment cabinets (four) will be screened from view by a 6' chainlink fence.

Cingular Wireless has made a focused effort to design the proposed facility according to the Sonoma County policy for communication towers by minimizing the visual impact and screening the facility to blend in the area.

The Sonoma County Zoning Department has assigned Doug Zanini as the Planner for this project. Please contact Mr. Zanini at 707-565-2397 if there are any questions or comments.

Thank you.



# COUNTY OF SONOMA PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

To: Interested Agencies February 28, 2005

The following application has been filed with the Sonoma County Permit and Resource Management Department.

File Number:

'!PE05-0027

Applicant Name:
Owner Name:

Nicole Tenenbaum Adeline Blasi

Site Address:

14100 Bodega Hwy, Bodega

A.P.N.

026-130-016

Request for a Use Permit for a telecommunications facility to include six antennas attached to an existing 60 ft. monopole with associates equipment cabinets on 273.18 acres.

We are submitting the above application for your review and recommendation. Additional information is on file in this office.

Responses to referrals should include: (1) statement of any environmental concerns or uncertainties your agency may have with the project; (2) any comments you wish to make regarding the merits of the project; and (3) your proposed conditions and mitigations for this project. Responsible agencies under CEQA are requested to indicate whether permits will be required for this project.

Your comments will be appreciated by March 14, 2005 and should be sent to the attention of UPE05-0027, Doug Zanini (dzarini@sonoma-county.org).

Please send a copy of your comments to the applicant(s) or their representatives.

PI	ease check the appro	opr	ate box and return or r	eply b	y e-mail to the address above.
X	No comments	[]	Comments attached	[]	Comments to be forwarded
1î	Please send meetin	gΓ	ຸເຄg notices regardin	ng this	y e-mail to the address above.  Comments to be forwarded project.

	FILE: UPEOS-0027
	Applicant Applicant
	Affidavit of noticing Bolege Address
I, (Name	of responsible planner), posted three copies of the attached poster at the following
locations	on or near the subject property: (description of location)
,	on
··········	(Date)
l declare t	under penalty of perjury under the laws of the State of California that the foregoing is true
and corre	ct.
(Date)	(Signature)
*****	**********
(Name	of responsible Secretary)
X	tne County Clerk's Office on 4/22/05
	the newspaper on
<del>_X</del>	to each owner of record within 300 feet of the subject property and to applicant/owner and others that have requested notification on
I declare and corre	2/05 Janeme (- 1/2chy
(Date)	(Signature)

FILE No.: UPE05-0027 Subject Parcel: 026-130-016 Planner: DZ Created By: fca 4/22/05 Total Number of Parcels: 15	FILE: UPE 05-0027  Micole Tennenbaum Applicant  14/00 Baclega Nighway  Address  Baclega:
i, <u>DOUGUNS MICHAEL ZAWINI</u> (Name of responsible planner)	posted three copies of the attached poster at the following
locations on or near the subject proper  (D) ON W. PENCE ENTINGED	ty: (description of location)
DON E. FENCE ENTRY (POST)	
3) ON T.P ALCHOSS BODIES	MWX on 4/22/08
	(Date)
I declare under penalty of perjury unde	r the laws of the State of California that the foregoing is true
and correct.	
4/22/05	Dovoj Man
(Date)	(Gioriatore)
****	********
1	mailed the attached notice to:
I,(Name of responsible Secretary)	_, mailed in a allastics mensor to
the County Clerk's Office on	
the newspaper on	
	nin 300 feet of the subject property and to applicant/owner and notification on
I declare under penalty of perjury under and correct.	er the laws of the State of California that the foregoing is true
(Date)	(Signature)

APR 2 5 2005

ord will remain posted to NOTTICE OF WAIVER OF A PUBLIC HEARING

APPLICANT: Nicole Tenenbaum

**OWNER:** Adeline Blasi

FILE: UPE05-0027

**DESCRIPTION OF PROJECT & LOCATION:** Request for a Use Permit for a Telecommunications facility to include six antennas to be attached to an existing 60-foot monopole with associated equipment cabinets on 275.18 acres located at 14100 Bodega Highway, Bodega; Zoning LEA (Land Extensive Agriculture), B6 160 acre density, Z (Second Dwelling Unit Exclusion), VOH (Valley Oak Habitat), BR (Biotic Resource); APN 026-130-016; Supervisorial District 5.

FOR A USE PERMIT

It is the intention of the Director of the Permit and Resource Management Department to issue a Use Permit as provided in Section 26-88-010(g) of the Sonoma County Zoning Ordinance. The Use Permit is being granted because the department has determined the proposal is a minor land use alteration.

In addition, it is the determination of the Department that the project is categorically exempt from the provisions of the California Environmental Quality Act pursuant to the Provisions of Title 14 of the California Administrative Code, Section 15301 because the project involves a minor addition to an existing structure.

The Director intends to find that the proposal will not be detrimental to the health, safety or welfare of adjacent land uses or properties.

The Use Permit will be issued without a public hearing on May 3, 2005, unless a written objection is received by the Director prior to that date. If a written objection is received, a public hearing will be scheduled and a notice of the hearing will be issued.

Persons wishing to obtain more information about this proposal, or to appeal in writing, must contact the Sonoma County Permit and Resource Management Department, 2550 Ventura Avenue, Santa Rosa, CA 95403. (707) 565-2397.

Posting Date: April 22, 2005

Staff: Doug Zanini



# COUNTY OF SONOMA PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

May 3, 2005

Nicole Tennenbaum 436 14th Street Ste. 100 Mezzanine Oakland, CA 94612

ka: UPE05-0027; 14100 Bodega Hwy., Bodega

This letter is in reference to your request for a Use Permit to allow the collocation of six panel antennas on an existing sixty (60) foot monopole with four associated equipment cabinets located on a 273.18 acre parcel at 14100 Bodega Highway, Bodega. Notice of the County's intent to waive the hearing requirement for the requested Use Permit was posted for 10 days and no protests were received. Pursuant to Section 26-88-010 (g) of the Sonoma County Code, no public hearing is required and the Use Permit will be issued subsequent with conformance with the attached conditions.

The Use Permit approval is based on a determination by the Department of Permit and Resource Management that the use will not be detrimental to the health, safety or welfare of adjacent land uses or properties. In addition, it is the determination of the Department that the project is categorically exempt from the provisions of the California Environmental Quality Act pursuant to the Provisions of Title 14 of the California Administrative Code, Section 15301/(Class 1/Minor addition to existing facility).

This Use Permit is approved for the use as described on the application form, the proposal statement, the site plan submitted to this department and as modified by the conditions of approval. Any modifications of the use, expansion or alteration shall be submitted for review and approval of the Department of Permit and Resource Management in advance of the proposed change and may, at the discretion of the department, require a new Use Permit.

You may be entitled to a partial refund of the application filing fee; please request this in writing and sign the attrached request Corm.

If you have any questions, feel free to contact me at 565-2397. Please refer to your file number (UPE05-0027) when making inquiries.

Sincerely,

Doug Zanini Project Planner

:fca

**Attachments** 

c: File UPE05-0027 Adeline Blasi, Owner

#### Final Conditions of Approval

Date: Applicant: May 3, 2005

File No.

UPE05-0027

Nicole Tenenhaum

APN:

026-130-016

Address:

14100 Bodega Hwy., Bodega

Project Description: Use Permit to allow the collocation of six panel antennas on an existing sixty (60) foot monopole located on a 273.18 acre parcel.

Prior to commencing the use, evidence must be submitted to the file that all of the following nonoperational conditions have been met.

#### **BUILDING:**

"The conditions below have been satisfied" BY	DATE
Ti ne conditions pelow have been satisfied "BY	DATE

1. The applicant shall obtain all applicable permits the Building Division which includes but may not be limited to site review, building permits, and grading permits.

#### HEALTH:

"The conditions below have been satisf	fied" BY	DATE
	717 FM 62 1	' # / 1 1 bmb ;

- 2. This is an unmanned facility with no water or sewage facilities. Therefore, no occupancy is cllowed and site visits shall not exceed two hours.
- 3. Noise shall be controlled in accordance with the following as measured at the exterior property line of any affected residential or sensitive land use:

#### Maximum Exterior Noise Level Starwards, dBA

Cumulative Duration of Noise Event in any one-hour Period	Daytime 7 a.m. to 10 p.m.	Nighttime 10 p.m. to 7 a.m.	
30-60 Minutes	50	45	
15-30 Minutes	<b>55</b>	50	
5-15 Minutes	60	55	
1-5 Minutes	65	60	
0-1 Minutes	70	65	

#### Limit exceptions to the following:

- If the ambient noise level at reds the standard, adjust the standard to equal the ambient level, A.
- Reduce the applicable standards by five dBA for simple tone noises, noises consisting primarily of B. speech or music, or for recurring Impulsive noises.
- C. Reduce the applicable standards by 5 decibels if they exceed the ambient level by 10 or more decibels.
- 4. Vibration shall not be permitted which is discernible with instruments of the lot line of the property on which the vibration is generated.
- 5. No activities shall be permitted which emit dangerous radioactivity at any point, or electrical disturbance or electromagnetic interference adversely affecting the operation at any point of any equipment other than that of the creator of such disturbance.

6. The fivelity shall be operated so that it shall not result in human exposure to nonionizing electromagnetic radiation NIER) in excess of the levels specified in the most current standard governing human exposure to NIER utilized by the Federal Communications Commission(FCC) in its licensing decision for the applicable facility. The applicant shall be responsible for demonstrating that the facility complies with this standard by providing a copy of an FCC issued permit, license, or waiver, or evidence that the FCC has categorically excluded this facility.

D	LA	M	M	M	6
~	LA	w	ш	II N	LJ:

"The conditions below have been satisfied" B	YY	DATE
----------------------------------------------	----	------

- 7. This Use Permit allows the collocation of six PCS (Personal Communication Service) panel antennas on an existing 60 foot telecommunications monopole. The dimensions of each antenna panel are proposed to be 13 inches wide by 51 inches high. In addition, four new equipment cabinets are to be placed on-site. The purposed facility would be unmanned and shall operate continuously. On altermaintenance shall occur on an as needed basis in order to properly maintain facility. The facility shall be constructed and operated in conformance with the application, site plan and elevations as submitted to the Sonoma County Permit and Resource Management Department except as modified herein.
- 8. The cellular antennas shall be painted a dark non-reflective brown color to match the existing monopole prior to final of building permit.
- Warning signs shall be posted at the base of the monopole and on all four sides of fence alerting the public to the presence of radio frequency electromagnetic fields. Warning signs shall be in place prior to final of building permit.
- 10. Following assembly and installation of the new antennas, all waste and debris shall be removed and disposed of in a lawful manner.
- 11. Upon abandonment or termination, the entire facility, including all equipment, towers, antennas, etc., shall be removed and the site restored to its pre-construction condition or other authorized use.
- 12. The own, /operator of any facrity that causes interference with local television or radio reception shall be responsible for mitigation of such interference in accordance with the operator's applicable FCC license requirements.
- 13. The applicant shall pay all applicable development fees p for to issuance of building permits.
- 14. Any proposed modification, alteration, and/or expansion of the use authorized by this Use Permit shall require the prior review and approval of the Permit and Resource Management Department or the Board of Zoning Adjustments, as appropriate. Such changes may require a new or modified Use Permit and full environmental review.
- 15. In any case where a Use Permit har not been used within two (2) years after the date of the granting thereof, or for such additional period as may be specified in the permit, such permit shall become automatically void and of no further effect, provided however, that upon written request by the applicant prior to the expiration of the two year period the permit approval may be extended for not more than one (1) year by the authority which granted the original permit pursuant to Section 26-92-130 of the Sonoma County Code.

This permit shall be subject to revocation or modification by the Board of Zoning Adjustments if: (a) the Board finds that there has been noncompliance with any of the conditions or (b) the Board finds that the use for which this permit is hereby granted constitutes a nuisance. Any such revocation shall be preceded by a public hearing noticed and hear sursuant to Section 26-92-120 and 26-92-140 of the Sonoma County Code.