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# PLANNING & DEVELOPMENT

DATE STAMP HERE

Land Use Planning Division 2120 Milvia Street, 2<sup>nd</sup> floor, Berkeley, CA 94704 Tel: 510.981.7410 TDD: 510.981.6903 Fax: 510.981.7420 Email: <u>Planning@ci.berkeley.ca.us</u> Web: <u>www.cityofberkeley.info/planning</u>

# I.A ZONING PROJECT APPLICATION FORM

(This box for staff use only.)       ZP201         Intake Planner       Administrative Use         (Complete Code Summary on pg. 4.)       AUP Modification         Use Permit / Variar       Use Permit / Variar	Permit Pre-Application Zoning Research Dice Modification
Expedite Request (for Use Permits/Variances only)	
• Project Address: 2398 BANCROFT WAT	Unit/Suite #:
Project Description: INSTALL NEW CELL SI	ITE ON (E) BUILDING : B PANEL
ANTENNAS AND SUPPORTING EQUIPM	ENT CABINETS. ANTENNAS SCREENED
WITHIN (2)(N) FACADE ELEMENTS, AN EQUIPMENT WILL BE SCREENED BE	SHIND PARAPET OR INTERIOR SPACE.
· Property Owner Name: WESLEY HOUSE B	ERKELEY, LLC
Owner's Mailing Address: Po Box 4536	
BERKELET, CA	14704
Phone #: U Home U Mobile U	Business E-mail:
Applicant Name (or write "same"): VERIZON WI	RELESS / LEAH HERNIKL, AGENT
Applicant's Mailing Address: 410 CLUBHOU:	SE DR
APTOS, CA 9:	5003
Phone #: 408-799-1182 D Home X Mobile X	HERNIKLE Business E-mail: SBCGLOBAL.NET
For projects involving <u>only</u> the following four items an please refer to the handout indicated in the right-hand	d <u>none</u> of the items on pages 2-3 of this form, column <u>instead</u> of filling out this form.
<ol> <li>Convérting existing Rental or Tenant In Common (TIC) Units to Condominiums?</li> </ol>	Refer to the "Condominium Conversion Procedures: Guide for Applicants"
<ol> <li>Demolition of, or exterior alterations to, a designated City of Berkeley Landmark, Structure of Merit, or structure in a City Historic District (or interior alterations to such buildings if publicly owned)?</li> </ol>	Refer to the "Landmark Preservation Commission: Structural Alteration Permit and Design Review Submittal Requirements"
3. Application to designate a City Landmark, Structure of Merit or Historic District?	Refer to the "Landmark, Structure of Merit or Historic District Designation Form"
<ol> <li>Exterior changes (including signs) to (1) any structure (new or existing) in a non-residential zoning district OR (2) a commercial or mixed-use building in the R-4 District?</li> </ol>	Refer to the Design Review Submittal Packet
Continued on Page 2	

# Submittal Requirements Checklist – Instructions

- 1. Complete the checklist below and **sign the bottom of page 3**. (Owner must also sign, or provide a letter authorizing the applicant to sign on the owner's behalf.) Not required for Zoning Research letters.
- 2. For each question for which you check "yes", provide the item from the Zoning Project Submittal Requirements indicated in the right-hand column. (For pre-applications, complete entire checklist but provide only items I.A through I.D, I.G, and all items in Section II.)
- 3. Label each item with the project address and the number in the right-hand column (e.g., III.A.2).

# 4. Submit a pdf copy of the <u>entire</u> application, along with the paper application to the Planner at the Permit Service Center, Zoning Counter.

D	bes the project include:	No	Yes	Handout / Application Requirement
1.	Any work requiring an Administrative Use Permit, Use Permit, Variance, or Modification of any these permits?		Ø	I. Required For All Projects *PDF of entire application required
2.	Any new structure(s), addition(s), demolition(s), exterior alteration(s), or change(s) of use?		Ø	II. Required For All Projects Involving Construction
3.	A new main building, OR a new accessory building/structure or main building addition within 2 feet of a required setback?	X		III.A.1 – Boundary/Topographic Survey
4.	More than 50 cubic yards of grading?			III.A.2 – Grading Plan
5.	A request to waive or reduce required parking?	X		III.A.3 – Parking Survey
6.	<ul><li>(1) a building over three stories in height, (2) a Density Bonus,</li><li>(3) an FAR over 2.0, OR (4) over 10,000 sq. ft. of gross floor area?</li></ul>		A	III.A.4 – Photo Simulations
7.	A new main building or an addition exceeding 14 feet in average height in the 'H' Overlay District?	M		III.A.5 – Section Drawings III.A.6 – Story Poles
8.	A new main building or an addition exceeding 14 feet in average height on a site adjacent to a residential use?	ষ্		III.A.7 – Shadow Study
9.	A new main building (except accessory buildings/structures)?	X		III.A.8 – Street Strip Elevation
10.	Creation of (1) 5 or more dwelling or live/work units, or (2)	X		III.B.1.a - Housing Affordability Statement
	condominium units on the site?			III.B.1.b - Applicant Anti-Discriminatory Housing Policies
11.	Under Government Code Section 65915:			
	a. A request for a Density Bonus?	Ø		III.B.2.a - Housing Affordability Statement
	b. A request for any concessions or incentives in addition to a Density Bonus?	ø		III.B.2.b – Additional Incentives or Concessions Documents
12.	Creation of (1) 10 or more dwelling units, (2) 5,000 sq. ft. of floor area, OR (3) 25 or more peak hour vehicle trips (based on ITE trip generation rates)?	X		III.C.4 – Traffic Impact Analysis
Co	ntinued on Page 3			

#### I.A. ZONING PROJECT APPLICATION FORM

Effective January 2015

Does the project include:	No	Yes	Handout / Application Requirement
<ol> <li>Creation or replacement of 2,500 square feet or more of impervious surface area? (Includes additions and new buildings but not routine maintenance and re-surfacing).</li> </ol>	Ø		III.C.6 – Stormwater Requirements Checklist
14. Soil disturbance exceeding one acre?	Ø		III.C.7 – State General Construction Permit
15. Any new dwelling unit(s), or addition or renovation of 10,000 sq. ft. or more of non-residential space?	Ø		<ul> <li>III.D.1 – Green Building Checklist</li> <li>III.D.2 – Energy Efficiency Analysis (non- residential mixed-use only)</li> </ul>
16. 2,500 sq. ft. or more of new or renovated irrigated area?	Ø		III.D.3 – Berkeley Water Efficient and Bay Friendly Landscape Requirements
17. Removal of 25% or more of a main building's exterior walls and roof (including replacement of existing structural members)?	Ø		III.E.1 – Structural and Pest Report.
<ol> <li>Demolition or substantial change of a building ≥40 years old? (Speak with a planner if unsure whether project is a "substantial change".)</li> </ol>	Ø		III.C.8 – Historic Resource Evaluation
19. Federal funding, either directly or through the City of Berkeley Housing Trust Fund?	M		III.F.1 – Area of Potential Effects (APE) Statement
20. A new business, or a new commercial space with tenant/operator already selected? (Does not include home occupations.)	Ø		III.F.2 – Zoning Use Questionnaire
You must disclose whether or not any of the following are true of the project:	No	Yes	Handout / Application Requirement
21. Elimination of any dwelling units	Ø	D	Your application will be referred to the Rent Stabilization Board. No action is
a. If known, are any of the dwelling units on the property controlled rental units?	D		required on your part. You may contact them at (510) 981-7368 if you have any questions.
22. Construction activity within the drip line of a Coast Live Oak tree with circumference over 18 in. at 4 ft. above ground (or 26 in. aggregate circumference for multi-trunked trees)?	Ø	D	III.C.1 – Arborist Report
23. A new building in a non-residential zoning district, on a site with a history of soil and/or groundwater contamination or within Toxic Division's Environmental Management Areas	X		III.C.2 – Phase I or II Assessment
24. A new building or addition in a liquefaction, landslide, or fault zone shown on the "Environmental Constraints Map"	Ø	D	III.C.3 – Seismic Hazard Investigation
<ol> <li>Construction on a parcel that is within 40 feet of an open creek or 25 feet of a culverted creek. See BMC 17.08 for creek definitions</li> </ol>	Ø		III.C.5 – Conformance with Creeks Ordinance, Creeks Submittal

Under penalties of perjury, I certify that (1) the above information is true and complete to the best of my knowledge, and (2) the attached paper and electronic copies of this application are the same. Applicant Signature: Multiple AGENT FOR VERIZON Date: 5/26/15 Date: 4/1/2015 ("Owner's Signature, or signed letter authorizing applicant to apply on pulner's behalf, is required for all applications.)

Page 3 of 4

#### LAND USE PLANNING - FOR INTERNAL USE ONLY

Zoning District(s):	
Zoning Section	Description
1. 23	UP/AUP to
2. 23	UP/AUP to
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File & Path: G:\LANDUSE\Forms & Instructions\Land Use Planning Forms\WORD Files\FORMS\_All\Zoning Project Appl Form\_01-15-2015.docx



kdi land use planning, site acquistion, construction management

May 28, 2015

City of Berkeley Land Use Planning Division 2120 Milvia Street Berkeley, CA 94704 RECEIVED

MAY 2 8 2015

# LAND USE PLANNING

Re: Zoning Project Application, Verizon Wireless Site 29143 2398 Bancroft Way

On behalf of Verizon Wireless, I submit this Zoning Project Application. Verizon proposes to establish a new cell site consisting of eight panel antennas which will be screened within architectural features on the building. The following materials are enclosed:

- Signed Zoning Project Application Form
- Hazardous Waste and Substances Statement
- Verizon Wireless Check #03318134 in the amount of \$6,043.00 for application fees
- Verizon Wireless Check #03319434 in the amount of \$5,500.00 for third party review deposit
- Applicant Statement
- Project Necessity Case
- Copy of FCC License
- Hammett & Edison EMF report, dated 3/24/15
- Photo-simulations
- Documentation of outreach to neighboring property owners
- Photo of project notification sign on property
- Project plans, 1 @ 8 ½" x 11"; 2 @ 11" x 17"
- CD with digital copies of submittal documents

I will be Verizon's representative for this project. Please direct all questions and activity on this application to my attention at the signature block address below.

Sincerely,

Seal Herickel

Leah Hernikl Zoning Specialist Contracted to KDI 410 Clubhouse Drive / Aptos / CA 95003 408.799.1182 hernikl@sbcglobal.net



# PLANNING & DEVELOPMENT

Land Use Planning, 2120 Milvia Street, Berkeley, CA 94704 Tel: 510.981.7410 TDD: 510.981.7474 Fax: 510.981.7420 Email: <u>Planning@ci.berkeley.ca.us</u>

## **II.E. HAZARDOUS WASTE AND SUBSTANCES STATEMENT**

Pursuant to the Permit Streamlining Act (PSA), a development permit application may not be accepted as complete unless and until the applicant has submitted a signed statement indicating whether the proposed project site or any alternative site(s) is on the lists of hazardous waste sites compiled pursuant to Government Code Section 65962.5 by the California Secretary for Environmental Protection.

Data lists / maps are available at the following websites (check multiple lists and categories): http://www.calepa.ca.gov/SiteCleanup/CorteseList/ http://www.envirostor.dtsc.ca.gov/public/ https://geotracker.waterboards.ca.gov/

#### Applicant's Information:

Name: VERIZON WIRELESS 4/0 LEAH HERNIKL, AGENT
Street Address: 410 CLUBHOUSE DR
City, State, Zip Code: APTOS, CA 95003
Phone Number: (408) 799-1182

#### **Project Information:**

Address:	2398	BANCROFT WAS	ſ
City, State,	Zip Code:	BERKELEY, 4	4 9.4704
Assessor's	book, page	, and parcel number:	055 - 1885 - 001 - 03

#### Specify any list pursuant to Section 65962.5 of the Government Code:

Regulatory identification number:

Date of list:

Applicant's verification: Signature: Real Herick Date: 5/26/15

2120 Milvia Street, 2nd Floor, Berkeley, CA 94704 Tel: 510.981-7410 Fax: 510 981-7420 TDD:510 981-7474 E-mail: planning@ci.berkeley.ca.us

#### APPLICANT STATEMENT Verizon Wireless Site 291543 2398 Bancroft Way, Berkeley, CA 94704

#### Proposed Project

Verizon Wireless proposes to develop a new wireless communications facility consisting of eight panel antennas and associated equipment. All equipment will be concealed from view. The antennas and supporting equipment will be located within: existing attic space, two new architectural façade features on the building to match existing elements, and a horizontal expansion of an existing chimney. Base station radio cabinets would be located inside the building. There will be no increase in height.

The approval of this application would be consistent with the purposed of the Use Permit review as outlined in Section 23B.32.040, as the location, design and operation of the facility will not be detrimental to the public welfare or surrounding properties.

The approval of this application would be consistent with Section 23C.17.050, as the project will be a building-mounted facility and no equipment will be readily visible.

#### **Description of Coverage Area**

This site is intended to provide coverage to parts of Downtown Berkeley and the UC Berkeley Campus. Please see the enclosed *Verizon Wireless Cell Site Necessity Case – Bancroft & Dana* for coverage maps and further explanation.

#### Statement of Need and Alternate Sites

The nearest known co-location opportunity is 2500 Durant Avenue, however, Verizon already has a site here, along with T-Mobile.

There are no other known co-location opportunities in the vicinity that would meet Verizon's coverage and capacity or be visually superior to the subject site, which allows complete concealment of all equipment. Verizon Wireless will agree to allow future co-location at the subject property as long as it is technically feasible.

Alternate locations were not considered for this site because: The subject site satisfies Verizon's coverage objectives and is technically feasible, offers the opportunity to completely conceal equipment in an architecturally sensitive manner, and is on and among non-residential uses.

#### **Description of Services**

This facility will provide Verizon Wireless 4G LTE voice, data, texting, and WiFi Hotspot capabilities.

#### <u>Visibility</u>

The antennas will be concealed within architectural features on the building. RF transparent fiberglass will be used to create building components that match the texture and color of existing elements. In this case, the antennas will be within a horizontal expansion of an existing chimney, within two façade panels matching such existing features on the building, and within an attic space. Base station cabinets will be located inside the building on the ground floor.

#### Third Party Evaluation

Verizon Wireless agrees to pay reasonable costs and administrative fees for third party technical review if necessary. A \$5,500 check is included with the subject application.

#### Noise Data

The antennas, support equipment and base station cabinets do not generate significant amounts of noise, and all of this equipment will be in interior spaces. No air conditioning equipment is proposed as part of this project. Because the project will not generate any noise effects, and agreement and fees for an independent acoustic consultant are not applicable, and not included in the application.

#### Assurance of Removal

Verizon Wireless agrees to secure a bond for the removal of the equipment in the event that the facility is abandoned. This will be provided prior to issuance of a building permit for the project.



# Verizon Wireless Cell Site Necessity Case – Bancroft & Dana

Prepared by Verizon Wireless RF Engineering

Confidential and proprietary materials for authorized Verizon personnel and outside agencies only. Use, disclosure or distribution of this material is not permitted to any unauthorized persons or third parties except by written agreement.



# Introduction:

There are two main drivers that prompt the creation of a cell site project, coverage and/or capacity. Most sites provide a mixture of both, but increasingly some sites are pure capacity.

**Coverage** is the need for expanded service often requested by our customers or emergency services personnel. While this initially meant providing coverage in vehicles, as usage patterns have shifted this now means improving coverage inside of buildings and in residential areas.

**Capacity** is the need for more bandwidth of service. In the simplest form this means a cell site can handle a limited number of voice calls, data mega bites, or total number of active users. When any one of these limits are met the user experience within the coverage area of that cell quickly starts to degrade during the busier hours of use.

Confidential and proprietary materials for authorized Verizon personnel and outside agencies only. Use, disclosure or distribution of this material is not permitted to any unauthorized persons or third parties except by written agreement.



**Coverage** is best shown in coverage maps. We use tools that take into account terrain, vegetation, building types, and cell site specifics to show predictions of the existing coverage and what we expect to see with a given cell site. The prediction models make some assumptions such as that the antennas are above the nearby ground clutter (Buildings and vegetation). Once the antennas fall below the ground clutter the models become inaccurate and cannot tell that specific trees or buildings are blocking the RF signal. Due to this, modeling of tower height requirements is frequently not accurate and misleading.





**Capacity** is best shown in graphs of usage growth and projected exhaustion. We utilize sophisticated programs to model current usage growth and project it into the future to determine when additional capacity will be required. The algorithms that predict capacity growth output numbers that are not easily explained. Since it takes 2-3 years on average to complete a cell site project, we have to be looking about 3 years into the future to meet future customer demand.

While data capacity may not seem urgent, beginning in 2014 voice traffic will begin to migrate from the older 3G voice technology to 4G VoLTE (Voice over IP). This will add additional load to the 4G network. Since voice is delay sensitive, exhaustion of the data network can cause degradation of voice calls including 911 calls.

Confidential and proprietary materials for authorized Verizon personnel and outside agencies only. Use, disclosure or distribution of this material is not permitted to any unauthorized persons or third parties except by written agreement.



# "Why do you need a site here???"

A good capacity cell will be close to the user population and have the traffic evenly spread around the site. When we cannot get a location that accomplishes being close to the customers and central to the usage, we end up having to build additional cells to meet the demands for service. Capacity sites are generally lower in height than a coverage site with a full cell needing to be above the ground clutter and a small cell being one that is at or below the ground clutter.

Where our customers use their wireless devices continues to evolve. While we once needed to cover highways and business districts, we are seeing increasing issues with high growth in residential areas. Current statistics show that about 1 of 3 American households no longer have a landline phone. To serve this need we have to increase the cells we have in or very near residential areas.



# Need Case for: Bancroft & Dana

299. Cell: 32950 DOWNTOWN\_BERKELEY



Summary: The existing Downtown Berkeley which serves downtown and the campus is forecast to exhaust in August 2015. Detail below.

The graph above shows the Forward Data Volume (FDV) or the Mega Bytes that the Downtown Berkeley site is carrying. As can be seen it will exceed the red threshold where we begin to see service degradation.

In addition, UC Berkeley is requiring us to shut down all on-campus sites (Downtown Berkeley and UC Berkeley East) in the near future. If we do not have replacement cell sites in place by that time, the remaining sites, such as UC Berkeley South Side, will take all of the campus traffic and will exhaust.



# Need Case for: Bancroft & Dana

Existing Coverage



Coverage without Downtown Berkeley and UC Berkeley East



Green=Good In-Building, Yellow= Good In-Vehicle, Red=Good on-Street.

Confidential and proprietary materials for authorized Verizon personnel and outside agencies only. Use, disclosure or distribution of this material is not permitted to any unauthorized persons or third parties except by written agreement.



# Need Case for: Bancroft & Dana

# **Proposed Coverage**



Summary: Bancroft & Dana will help us regain much of the coverage lost by the loss of the Downtown Berkeley site and the UC Berkeley East site.



# **Federal Communications Commission**

**Wireless Telecommunications Bureau** 

#### **RADIO STATION AUTHORIZATION**

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY	1	Call WQC	Sign V287	File Number
CELLCO PARTNERSH 1120 SANCTUARY PK ALPHARETTA, GA 300		Radio Service CW - PCS Broadband		
CC Registration Number (FF	<b>RN):</b> 0003290673			
Grant Date 03-26-2007	Grant DateEffective DateEx03-26-200712-16-2010		Expiration Date Print Date 01-27-2017	
Market Number BTA404	Chann	el Block	Sub-Market 2	t <b>Designator</b> 2
	Market San Francisco-O	Name akland-San Jose		
<b>1st Build-out Date</b> 01-27-2002	2nd Build-out Date	3rd Build-out Date	4th B	uild-out Date

#### Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is conditioned upon the full and timely payment of all monies due pursuant to Sections 1.2110 and 24.711 of the Commission's Rules and the terms of the Commission's installment plan as set forth in the Note and Security Agreement executed by the licensee. Failure to comply with this condition will result in the automatic cancellation of this authorization.

#### **Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the license any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.



# **Federal Communications Commission**

**Wireless Telecommunications Bureau** 

#### **RADIO STATION AUTHORIZATION**

#### LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY CELLCO PARTNERSH 1120 SANCTUARY PK ALPHARETTA, GA 300 C Registration Number (FF	Call WQQ AW	Sign A218 Radio - AWS (171 2110-21	File Number Service 0-1755 MHz and 55 MHz)	
<b>Grant Date</b> 08-23-2012	Effective Date 05-07-2014	Expiration Date 11-29-2021		Print Date
Market Number BEA163		Block	Sub-Ma	rket Designator 4
	Market San Francisco-Oa	Name kland-San Jose		
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	41	th Build-out Date

#### Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

#### **Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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MMISSION ***	RADIO STATION A	UTHORIZATIO	)N	
LICENSEE: CELLCO PA	RTNERSHIP	Γ	Call Sign WQGB267	File Number
CELLCO PARTNERSHIP 1120 SANCTUARY PKW	Y #150 - GASA5REG		Radi AW - AWS (17	o Service 710-1755 MHz and
ALPHARETTA, GA 30009			2110-2	2155 MHz)
ALPHARETTA, GA 30009 Registration Number (FRN Grant Date 11-29-2006	): 0003290673 Effective Date 05-07-2014	Expiration E 11-29-202	2110-2 Date 1	P155 MHz) Print Date
ALPHARETTA, GA 30009 C Registration Number (FRN) Grant Date 11-29-2006 Market Number CMA007	): 0003290673 Effective Date 05-07-2014 Channe A	Expiration E 11-29-202 el Block	2110-2 Date 1 Sub-M	Print Date Print Date arket Designator 0
ALPHARETTA, GA 30009 <b>Registration Number (FRN</b> <b>Grant Date</b> 11-29-2006 <b>Market Number</b> CMA007	): 0003290673 Effective Date 05-07-2014 Channe A Market San Francisco-4	Expiration I 11-29-202 el Block A Name Oakland, CA	2110-2 Date 1 Sub-M	Print Date Print Date arket Designator 0

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

#### **Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

#### Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGB267

#### **File Number:**

**Print Date:** 

The license is subject to compliance with the provisions of the January 12, 2001 Agreement between Deutsche Telekom AG, VoiceStream Wireless Corporation, VoiceStream Wireless Holding Corporation and the Department of Justice (DOJ) and the Federal Bureau of Investigation (FBI), which addresses national security, law enforcement, and public safety issues of the FBI and the DOJ regarding the authority granted by this license. Nothing in the Agreement is intended to limit any obligation imposed by Federal lawor regulation including, but not limited to, 47 U.S.C. Section 222(a) and (c)(1) and the FCC's implementing regulations. The Agreement is published at VoiceStream-DT Order, IB Docket No. 00-187, FCC 01-142, 16 FCC Rcd 9779, 9853 (2001).



# **Federal Communications Commission**

**Wireless Telecommunications Bureau** 

#### **RADIO STATION AUTHORIZATION**

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY	<b>Call Sign</b> WQJQ694	File Number
CELLCO PARTNERSHIP 1120 SANCTUARY PKWY, #150 GASA5REG ALPHARETTA, GA 30009-7630	Radio WU - 700 MHz U	Service pper Band (Block C)
ALPHARETTA, GA 30009-7630		

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 11-26-2008	Effective Date 04-14-2015	Expiration Date 06-13-2019	Print Date
Market Number REA006	Chani	rel Block C	Sub-Market Designator 0
	Marke W	t Name est	
1st Build-out Date 06-13-2013	<b>2nd Build-out Date</b> 06-13-2019	3rd Build-out Date	4th Build-out Date

#### Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules

**Conditions:** 

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the license any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

#### Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of Verizon Wireless, a personal wireless telecommunications carrier, to evaluate the base station (Site No. 291543 "Bancroft & Dana") proposed to be located at 2398 Bancroft Way in Berkeley, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

#### **Executive Summary**

Verizon proposes to install directional panel antennas above the roof of the four-story residential building located at 2398 Bancroft Way in Berkeley. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

#### **Prevailing Exposure Standards**

The U.S. Congress requires that the Federal Communications Commission ("FCC") evaluate its actions for possible significant impact on the environment. A summary of the FCC's exposure limits is shown in Figure 1. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. The most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5-80 GHz	$5.00 \text{ mW/cm}^2$	1.00 mW/cm <sup>2</sup>
WiFi (and unlicensed uses)	2-6	5.00	1.00
BRS (Broadband Radio)	2,600 MHz	5.00	1.00
WCS (Wireless Communication)	2,300	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency range]	30-300	1.00	0.20

#### **General Facility Requirements**

Base stations typically consist of two distinct parts: the electronic transceivers (also called "radios" or "channels") that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The transceivers are often located at ground level and are connected to the antennas by coaxial cables. A



small antenna for reception of GPS signals is also required, mounted with a clear view of the sky. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. This means that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

#### **Computer Modeling Method**

The FCC provides direction for determining compliance in its Office of Engineering and Technology Bulletin No. 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation," dated August 1997. Figure 2 describes the calculation methodologies, reflecting the facts that a directional antenna's radiation pattern is not fully formed at locations very close by (the "near-field" effect) and that at greater distances the power level from an energy source decreases with the square of the distance from it (the "inverse square law"). The conservative nature of this method for evaluating exposure conditions has been verified by numerous field tests.

#### Site and Facility Description

Based upon information provided by Verizon, including zoning drawings by Streamline Engineering and Design, Inc., dated December 17, 2014, it is proposed to install eight Amphenol Model HEX456CW0000X directional panel antennas behind new view screens to be installed above the roof of the four-story residential building located at 2398 Bancroft Way in Berkeley. The antennas would be mounted with no downtilt and would be oriented in pairs at 90° spacing, to provide service in all directions. The antennas oriented toward 80°T and 170°T are to be mounted inside a new view screen enclosure, configured to resemble a chimney, at an effective height of about 63½ feet above ground, 14 feet above the roof in those directions. The antennas oriented toward 260°T and 350°T are to be mounted behind new view screens on the north and west faces of the building, at effective heights of 49½ and 52 feet above ground, respectively. The maximum effective radiated power in any direction would be 10,670 watts, representing simultaneous operation at 4,340 watts for AWS, 4,070 watts for PCS, and 2,260 watts for 700 MHz service; no operation on cellular frequencies is presently proposed from this site. There are reported no other wireless telecommunications base stations at the site or nearby.

#### **Study Results**

For a person anywhere at ground, the maximum RF exposure level due to the proposed Verizon operation is calculated to be  $0.028 \text{ mW/cm}^2$ , which is 2.9% of the applicable public exposure limit.



The maximum calculated level at any nearby building would be  $0.087 \text{ mW/cm}^2$ , which is 8.9% of the public exposure limit. It should be noted that these results include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operation. Levels may exceed the applicable public exposure limit on the roof of the subject building, in front of the antennas.

#### **Recommended Mitigation Measures**

Due to their mounting locations, the Verizon antennas would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training, to include review of lock-out tag-out procedures, be provided to all authorized personnel who have access to the roof, including employees and contractors of Verizon and of the property owner. No access directly in front of the antennas themselves, such as might occur during certain maintenance activities, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. Posting explanatory signs<sup>\*</sup> on the screens in front of the antennas, such that the signs would be readily visible from any angle of approach to persons who might need to work within that distance, would be sufficient to meet FCC-adopted guidelines.

#### Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the base station proposed by Verizon Wireless at 2398 Bancroft Way in Berkeley, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations. Training authorized personnel and posting explanatory signs are recommended to establish compliance with occupational exposure limits.

<sup>\*</sup> Signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (*e.g.*, a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter, and guidance from the landlord, local zoning or health authority, or appropriate professionals may be required.



#### Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2015. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

OFESSI -13026 William F. Hammett, P.E M-20676 EER BEG 707/996-5200 Exp. 6-30-2015

March 24, 2015



#### FCC Radio Frequency Protection Guide

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission ("FCC") to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The FCC adopted the limits from Report No. 86, "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements ("NCRP"). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, "Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," includes similar limits. These limits apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

As shown in the table and chart below, separate limits apply for occupational and public exposure conditions, with the latter limits (in *italics* and/or dashed) up to five times more restrictive:



Frequency (MHz)

Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits, and higher levels also are allowed for exposures to small areas, such that the spatially averaged levels do not exceed the limits. However, neither of these allowances is incorporated in the conservative calculation formulas in the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) for projecting field levels. Hammett & Edison has built those formulas into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radio sources. The program allows for the description of buildings and uneven terrain, if required to obtain more accurate projections.

HAMMETT & EDISON, INC. CONSULTING ENGINEERS SAN FRANCISCO

## **RFR.CALC<sup>™</sup> Calculation Methodology**

#### Assessment by Calculation of Compliance with FCC Exposure Guidelines

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission ("FCC") to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The maximum permissible exposure limits adopted by the FCC (see Figure 1) apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits.

#### Near Field.

Prediction methods have been developed for the near field zone of panel (directional) and whip (omnidirectional) antennas, typical at wireless telecommunications base stations, as well as dish (aperture) antennas, typically used for microwave links. The antenna patterns are not fully formed in the near field at these antennas, and the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) gives suitable formulas for calculating power density within such zones.

For a panel or whip antenna, power density 
$$\mathbf{S} = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$$
, in mW/cm<sup>2</sup>,

and for an aperture antenna, maximum power density  $S_{max} = \frac{0.1 \times 16 \times \eta \times P_{net}}{\pi \times h^2}$ , in mW/cm<sup>2</sup>,

where  $\theta_{BW}$  = half-power beamwidth of the antenna, in degrees, and

 $P_{net}$  = net power input to the antenna, in watts,

D = distance from antenna, in meters,

h = aperture height of the antenna, in meters, and

 $\eta$  = aperture efficiency (unitless, typically 0.5-0.8).

The factor of 0.1 in the numerators converts to the desired units of power density.

#### Far Field.

OET-65 gives this formula for calculating power density in the far field of an individual RF source:

power density 
$$\mathbf{S} = \frac{2.56 \times 1.64 \times 100 \times \mathrm{RFF}^2 \times \mathrm{ERP}}{4 \times \pi \times \mathrm{D}^2}$$
, in mW/cm<sup>2</sup>,

where ERP = total ERP (all polarizations), in kilowatts,

RFF = relative field factor at the direction to the actual point of calculation, and

D = distance from the center of radiation to the point of calculation, in meters.

The factor of 2.56 accounts for the increase in power density due to ground reflection, assuming a reflection coefficient of 1.6 ( $1.6 \ge 1.6 = 2.56$ ). The factor of 1.64 is the gain of a half-wave dipole relative to an isotropic radiator. The factor of 100 in the numerator converts to the desired units of power density. This formula has been built into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radiation sources. The program also allows for the description of uneven terrain in the vicinity, to obtain more accurate projections.





veri<u>zon</u>

**SF Bancroft & Dana** 2398 Bancroft Way, Berkeley, CA 94704

proposed Verizon antennas inside new FRP chimney expansion

Proposed









SF Bancroft & Dana 2398 Bancroft Way, Berkeley, CA 94704

# Proposed

proposed Verizon antennas behind new FRP screen to match existing building facade

proposed Verizon antennas inside new FRP boxes to match existing detail



Your Project. Visualized www.photosims.com

Photo simulation as seen looking east from Bancroft Way









# **SF Bancroft & Dana** 2398 Bancroft Way, Berkeley, CA 94704

DDD Con

ne

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NOTIFICATION OF NEIGHBORS: Project information has been sent to the property owners of the three abutting and confronting lots to the site, which are owner occupied. To date, the property owners are still reviewing and have not responded with signatures. Please see the attached e-mails for documentation of outreach.



#### EXAMPLE OF ABUTTING AND CONFRONTING LOTS

#### Street

Abutting Lot 2) Trinity United Methodist Church, 2362 Bancroft Way	Subject Lot 2398 Bancroft Way	Abutting Lot 3) Stiles Hall, 2400 Bancroft Way
Abutting Lot	Abutting Lot	Abutting Lot

File & Path: G:\LANDUSE\Forms & Instructions\Land Use Planning Forms\WORD Files\Guidelines\Guideline I.D Neighbors' Signatures Instructions.docx

## 1) UC BERKELEY

#### Leah Hernikl

From:	Leah Hernikl <hernikl@sbcglobal.net></hernikl@sbcglobal.net>
Sent:	Wednesday, May 20, 2015 5:25 PM
То:	'jaykim@berkeley.edu'
Subject:	Verizon Site Proposed at Bancroft and Dana
Attachments:	PHOTO SIMS Wesley House 03-08-15.pdf; Verizon-Bancroft&Dana-04-14-15-ZD100.pdf

Hello Jay,

I got your name from Helen Levay in Real Estate Services, who thought you might be the appropriate person for me to contact.

I'm representing Verizon Wireless, who is proposing to install a cell site consisting of eight antennas at the Wesley House, 2398 Bancroft Way, Berkeley. The antennas will be screened within new and existing architectural features of the building and will not be visible.

I'm contacting the university as part of the neighborhood outreach process for the City of Berkeley's Zoning Project Application, as the subject property is directly across the street from the UC Berkeley Campus, and also a nearby parking lot owned by the Regents at 2418 Bancroft.

I've attached a copy of the project plans and photo-simulations for review.

Once the drawings have been reviewed by the appropriate party, I would need to arrange to get a signature on a set of the drawings to acknowledge that a representative of the University has had the opportunity to look at the drawings. The signature block gives the opportunity to state: any objections, that there are no objections, or there is no comment. I could arrange a time to meet and secure a signature in person, or mail plans with a return envelope.

If you're not the appropriate contact, any assistance you could provide in directing me to the correct person would be appreciated.

Thanks so much for your time and assistance,

Leah Hernikl Zoning Specialist I Contracted to KDI Consulting Planners to Verizon Wireless 408.799.1182

# 2) TRINITY METHODIST CHURCH, 2362 BANCROFT WAY

#### Leah Hernikl

From:	Leah Hernikl <hernikl@sbcglobal.net></hernikl@sbcglobal.net>
Sent:	Wednesday, May 27, 2015 3:28 PM
To:	'rev.mark.cordes@gmail.com'
Subject:	FW: Verizon Wireless Proposal at 2398 Bancroft, Wesley House
Attachments:	Verizon-Bancroft&Dana-05-22-15-ZD100.pdf

Hello Pastor,

I'm following up to see if you've had a chance to review the drawings, and would be able to provide a signature and any comments you may have.

Thank you,

Leah Hernikl Zoning Specialist I Contracted to KDI Consulting Planners to Verizon Wireless 408.799.1182

From: Leah Hernikl [mailto:hernikl@sbcglobal.net] Sent: Thursday, May 21, 2015 10:45 AM To: 'rev.mark.cordes@gmail.com' Subject: Verizon Wireless Proposal at 2398 Bancroft, Wesley House

Good morning Pastor Mark,

I'm representing Verizon Wireless, who is proposing to install a cell site consisting of eight antennas at the Wesley House, 2398 Bancroft Way, Berkeley. The antennas will be screened within new and existing architectural features of the building and will not be visible.

I'm contacting the you as part of the neighborhood outreach process for the City of Berkeley's Zoning Project Application, as the subject property is next door to your church.

I've attached a copy of the project plans and photo-simulations for review.

Once you've had a chance to review the drawings, I would need to arrange to get a signature on a set of the drawings to acknowledge that a representative of the church has had the opportunity to comment. The signature block gives the opportunity to state: any objections, that there are no objections, or there is no comment. I could arrange a time to meet and secure a signature in person, or mail plans with a return envelope.

Thanks so much for your time and assistance,

Leah Hernikl Zoning Specialist I Contracted to KDI Consulting Planners to Verizon Wireless 408.799.1182

# 3) STILES HALL, 2400 BANCROFT WAY

#### Leah Hernikl

From:	Leah Hernikl <hernikl@sbcglobal.net></hernikl@sbcglobal.net>
Sent:	Tuesday, May 26, 2015 1:33 PM
То:	'info@stileshall.org'
Subject:	FW: Verizon Wireless Proposal at Wesley House, 2398 Bancroft

Hi Dave,

I'm just following up confirm that you received my message below from last Thursday, and if you've had a chance to look over the drawings.

Thanks,

Leah Hernikl Zoning Specialist I Contracted to KDI 408.799.1182

From: Leah Hernikl [mailto:hernikl@sbcglobal.net]
Sent: Thursday, May 21, 2015 2:01 PM
To: 'info@stileshall.org'
Subject: Verizon Wireless Proposal at Wesley House, 2398 Bancroft

Hi Dave,

Thanks for your time on the phone just now regarding Verizon's proposal to establish a new cell site at Wesley House.

I've attached the project plans and photo-sims, feel free to contact me with questions.

All of the antennas would be screened within new and existing architectural features of the building, and would not be visible.

As I mentioned, I'll need a signature acknowledging that you've had a chance to review the drawings. You'll have the opportunity to add comments if your like.

Thanks for your assistance,

Leah Hernikl Zoning Specialist I Contracted to KDI Consulting Planners to Verizon Wireless 408.799.1182

VERIZON WIRELESS EQUIPMI	ENT ENGINEER:	VERIZON WIRELESS REA	VERIZON WIRELESS REAL ESTATE:		
SIGNATURE	DATE	SIGNATURE	DATE		
VERIZON WIRELESS CONSTR	UCTION:	VERIZON WIRELESS RF	ENGINEER:		
SIGNATURE	DATE	SIGNATURE	DATE		
PROPERTY OWNER:		KDI LAND USE PLANNI	NG - LEASING		
SIGNATURE	DATE	SIGNATURE	DATE		
KDI LAND USE PLANNING -	- CONSTRUCTION	KDI LAND USE PLANNIN	NG – ZONING		
SIGNATURE	DATE	SIGNATURE	DATE		

**Veri on** wireless **BANCROFT & DANA** 

2398 BANCROFT WAY, BERKELEY, CA 94704 LOCATION NUMBER: 291543

#### **PROJECT DESCRIPTION**

A (P) VERIZON WIRELESS UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF:

- INSTALLING (P) EQUIPMENT INSIDE A (P) 142 SQ FT LEASE AREA
- INSTALLING (8) (P) ANTENNAS
- INSTALLING (12) (P) RRUS-12 UNITS W/ (12) (P) A2 MODULES
- INSTALLING (4) (P) Ø4" CONDUITS FOR HYBRID CABLES & GROUND WIRES
- INSTALLING (2) (P) GPS ANTENNAS

#### **PROJECT INFORMATION**

SI	TE NAME:		BAN	NCROFT & I	DANA			SITE #:		291543	
СС	UNTY:		ALA	ALAMEDA			JURISDICTION:		CITY OF E	BERKELEY	
AF	PN:		055	-1885-00	1-03			POWER:		PG&E	
SIT	TE ADDRESS	:	239 BER	8 BANCRO RKELEY, CA	FT WAY 94704			TELEPHONE:		AT&T	
CU	IRRENT ZON	ING:	R-S	SMU							
СС	NSTRUCTION	N TYPE:	V—E	3							
00	CUPANCY T	YPE:	U,	(UNMANNED	COMMUNI	CATIONS FAC	ILITY)				
PR	OPERTY OW	NER:	WES PO BER	SLEY HOUSE BOX 4536 RELEY, CA	E BERKELE` 94704	Y LLC					
AF	PLICANT:		VER 278 WAL	IZON WIREL 5 MITCHELI NUT CREEF	ESS L DR K, CA 9459	98					
LE	ASING CONT	ACT:	ATT (51)	N: RICHAR 0) 459–63	D TANG 09						
ZC	NING CONTA	ACT:	ATT (40	N: LEAH H 8) 799–118	ERNIKL 32						
СС	NSTRUCTION	I CONTACT:	ATT (92	N: ADAM ( 5) 382-87	CRONEY 55						
	I HAVE REA 8 ANTENNA ARCHITECTU	AD THE PL AS TO BE S URAL FEAT	ANS FOR A SCREENED   URES ON T	, proposei By existini He buildin	D VERIZON G AND PRO IG AT 2398	WRELESS CI DPOSED 3 BANCROFT	ELL SITE: WAY				
	NAME (PRINTED)	SIGNATURE	ADDRESS	RENTER OR OWNER	DATE	HAVE NO OBJECTIONS	HAVE (PLEASE	OBJECTIONS STATE BRIEFLY)	HAVE NO COMMENT		
										-	



#### DRIVING DIRECTIONS

- 2785 MITCHELL DR, WALNUT CREEK, CA 94598 2398 BANCROFT WAY, BERKELEY, CA 94704 FROM:
- 1. HEAD NORTHEAST ON MITCHELL DR TOWARD OAK GROVE RD TURN RIGHT ONTO OAK GROVE RD
- 3. TAKE THE 2ND RIGHT ONTO YGNACIO VALLEY RD 4. YGNACIO VALLEY RD TURNS SLIGHTLY RIGHT AND BECOMES HILLSIDE AVE
- TURN RIGHT ONTO THE RAMP TO CA-24 W CONTINUE ONTO CA-24 W
- . KEEP LEFT AT THE FORK TO STAY ON CA-24 W
- 8. TAKE THE TELEGRAPH AVENUE EXIT TOWARD INTERSTATE 580/WEST GRAND AVENUE 9. TURN RIGHT ONTO TELEGRAPH AVE
- 10. TURN LEFT ONTO BANCROFT WAY
- END AT: 2398 BANCROFT WAY, BERKELEY, CA 94704

ESTIMATED TIME: 27 MINUTES ESTIMATED DISTANCE: 18.9 MILES

#### CODE COMPLIANCE

ALL WORK & MATERIALS SHALL BE PERFORMED & INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

2013 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.

- (2012 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- (2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS) CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. 2013
- (2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- (2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R. 2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.

(2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R 2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. ANSI/EIA-TIA-222-G

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

DISABLED ACCESS REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE, TITLE 24 PART 2, SECTION 11B-203.4

	SHEET INDEX						
	SHEET	DESCRIPTION					
30 FT 0.4 MI 0.2 MI 1.2 MI 3.2 MI 0.4 MI 0.1 MI	T-1 LS-1 A-2 A-3 A-4 A-5 A-6	TITLE SHEET TOPOGRAPHIC SURVEY SITE PLAN PARTIAL GROUND FLOOR PLAN ANTENNA PLANS & DETAILS ELEVATION ELEVATION ELEVATION					

# REV











2. USE	12" CABLE TRAY	,	
SYM	WIDTH	DEPTH	HEIGHT
A	2'-1"	1'-5 1/2"	7'-0"
В	2'-1"	1'-3"	7'-0"
С	2'-0"	2'-0"	6'-2"
D	1'-8 1/2"	1'-3"	7'-0"
D1	1'-10"	1'-3"	7'-0"
D2	2'-2"	1'-3"	7'-0"
E	2'-0"	1'-7"	4'-9"
F	2'-0"	2'-1 1/4"	7'-0"
G	2'-0"	2'-0"	7'-0"
Н	2'-6"	3'-6"	7'-0"
1	2'-4"	2'-1 1/4"	7'-0"
J	1'-9"	2'-1 1/4"	5'-3"

NOTES: UNLESS OTHERWISE SPECIFIED 1. BOTTOM OF CABLE TRAY IS 8' ABOVE FINISHED FLOOR

- (E) EXTERIOR WALL, TYP

(E) HEATER TO BE REMOVED & PIPING TO BE CAPPED (E) WINDOW TO BE COVERED (F) VERIZON WIRELESS LTE CABINET, TYP OF 2 - (P) VERIZON WIRELESS TELCO BOARD (4'X8'X34") (P) VERIZON WIRELESS A/C UNIT, TYP OF 2

(E) CEILING OVERHANG, 8'-6" A.F.F. CEILING @ 11'-0" A.F.F.

WIRELESS SITE ACCESS DOOR





A-2











TOP OF (E) CHIMNEY & (P) FRP CHIMNEY ±67'-5" A.G.L.	•
VERIZON WIRELESS ANTENNAS SECTOR A & B ±63'-8" A.G.L.	•
TOP OF (E) ROOF ±61'-9" A.G.L.	•
TOP OF (E) ROOF ±59'-8" A.G.L.	•
TOP OF (P) FAUX FRP WINDOW @ SECTOR D ±55'-4" A.G.L.	•
ISION TO ARCHITECTURE FEATURE @ SECTOR C ±54'-6" A.G.L.	•
F (P) VERIZON WRELESS SECTOR D ANTENNAS ±52'-0" A.G.L.	$\bullet$









SIGN ON BANCROFT WAY



SIGN ON DANA AVENUE



Planning & Development Department Land Use Planning Division

June 2, 2015

Verizon Wireless c/o Leah Hernikl, Agent 410 Clubhouse Drive Aptos, CA 95003 Sent via email: hernikl@sbcglobal.net

# RE: 2398 Bancroft Way, Application #ZP2015-0127 Use Permit to install new cell site on (e) building: 8 panel antennas and supporting equipment cabinets.

Dear applicant:

On behalf of the City of Berkeley, I would like to introduce myself as the project planner for the above referenced application. Staff from various City departments will be reviewing your application, including the Building and Safety, Land Use Planning and Transportation divisions, as well as other interested parties, to ensure that the project application is complete. If any questions arise, City staff will either contact you in writing or by phone at the number supplied on your application. Unless you inform us otherwise, you will be the primary contact during the application process

You can expect site visits by various staff members in the next couple of weeks. These visits will be from the public right-of-way, unless staff makes an appointment with you in advance. I will be contacting you within 30 days of your application date to follow-up with the status of the project and to request any additional information needed to complete the application.

Please note that due to staffing reductions and the level of permit activity, applicants should expect a processing time of 6-15 months for most of the less complex use permits (changes of use, minor additions, etc.), and 12 - 24 months for the more complex or controversial use permit (new construction, multiple units, etc.). The City has consultants available to expedite use permit applications, for an additional fee, and therefore reduce the processing time.

Please feel free to contact me if you are interested in using this service to expedite your application or if you have other questions or comments about your application. I can be reached by email at <u>fcrane@cityofberkeley.info</u> or by phone at (510) 981-7413.

I look forward to working with you.

Sincerely,



Fatema Crane Associate Planner