

Wireless Communications Permit



Public Works Department
 www.cityofsanmateo.org
 pweng@cityofsanmateo.org
 (650) 522-7300

Engineering Division
 330 West 20th Avenue
 San Mateo, CA 94403

Revised: March 2021

Wireless Communications Facilities Permit Application

INSTRUCTIONS:

Prior to submittal of this Application, the Application Checklist and all other required materials, a meeting with staff is strongly encouraged. This voluntary informational meeting with City staff does not cause the FCC Shot Clock to begin.

City staff may deem the application incomplete if the applicant fails to include any required information or materials. Applications shall comply with SMMC 17.10 and the Design Standards and Application Requirements.

Applicants may submit applications by appointment only. Please contact the Public Works Department for an appointment.

Applicant:

Name: Jason Camarena
 Company: Crown Castle
 Mailing Address: 1 Park Place
 City, State, Zip: Dublin, CA 94568
 Phone: (925) 201-5806 Fax: _____
 E-mail: jason.camarena.contractor@crowncastle.com

Pole Owner:

Name: Joe Serrato
 Company: Crown Castle
 Mailing Address: 1 Park Place, Suite 300
 City, State, Zip: Dublin, CA, 94568
 Phone: (408) 468-5564 Fax: _____
 E-mail: joe.serrato@crowncastle.com

Authorized Representative:

Name: Taylor Blanford
 Company: Kimley-Horn
 Mailing Address: 1300 Clay St., Suite 325
 City, State, Zip: Oakland, CA 94612
 Phone: (510) 210-3221 Fax: _____
 E-mail: Taylor.Blanford@kimley-horn.com

Pole Owner's Signature:

See Attachment 05

Printed Name: _____ Date: _____

Applicant's Signature: (if different from Property Owner)

Printed Name: Jason Camarena Date: 10/10/23

Proposed Site Location and Description:

Proposed Project Address: 535 CLARK DR Pole Number ^a: 110072203
 Zoning District (for ROW, provide nearest zoning district): R1A ^a If in the ROW, provide the pole number for the streetlight or pole.
 Latitude/Longitude of Location: 37.565984, -122.349195
 Construction Value (\$)/Project Description: Construction Value = \$15,000.00
Install a new wireless radio facility and associated equipment on an existing wood utility pole.

Applicant's Request:

WIRELESS PERMIT SECTION 6409 APPROVAL OTHER _____

STAFF USE ONLY

Applicable Shot Clock Period (for informational purposes only): 60 days 90 days OTHER: _____

Pre-App Submittal Meeting _____

Neighborhood Meeting _____

Application Submittal _____

Application Deemed Complete _____

Shot Clock Expiration _____

Conditionally Approved _____

Appeal _____



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Wireless Communications Facilities Permit Application Checklist

INSTRUCTIONS:

Prior to submittal of this Application Checklist, Application and all other required materials, a meeting with City staff is strongly encouraged. The City also recommends applicant holds a voluntary neighborhood meeting. These voluntary meetings shall not cause the FCC Shot Clock to begin.

City staff may deem the application incomplete if the applicant fails to include any required information or materials. Applications shall comply with SMMC 17.10 and Design Standards and Application Requirements.

All starred (*) items in the checklist below are not required for a Section 6409 Approval.

Applicants may submit applications by appointment only. Please contact the Public Works Department for an appointment.

Applicant:

Name: Jason Camarena
 Company: Crown Castle
 Mailing Address: 1 Park Place
 City, State, Zip: Dublin, CA 94568
 Phone: (925) 201-5806 Fax: _____
 E-mail: jason.camarena.contractor@crowncastle.com

Proposed Site Location and Description:

Proposed Project Address: 535 CLARK DR
 Project Description: Install a new wireless radio facility
 Pole Number ^a: 110072203
^a If in the ROW, provide the pole number for the streetlight or pole.
 Applicant's Request:
 WIRELESS PERMIT SECTION 6409 APPROVAL
 OTHER(describe request) _____

APPLICATION CHECKLIST – REQUIRED MATERIALS

- | | |
|--|--|
| <input checked="" type="checkbox"/> APPLICATION FORM AND DEPOSIT | <input checked="" type="checkbox"/> INITIAL CEQA ASSESSMENT
[Attachment 6] |
| <input checked="" type="checkbox"/> PROJECT PLANS | <input checked="" type="checkbox"/> RF COMPLIANCE REPORT
[Attachment 7] |
| <input checked="" type="checkbox"/> VOLUNTARY NEIGHBORHOOD MEETING SUMMARY
[Attachment 1] | <input checked="" type="checkbox"/> NOISE COMPLIANCE REPORT
[Attachment 8] |
| <input checked="" type="checkbox"/> PHOTO SIMULATIONS
[Attachment 2] | <input type="checkbox"/> SECTION 6409 EVALUATION (if applicable)
[Attachment 9] |
| <input checked="" type="checkbox"/> PUBLIC NOTICE, AFFIDAVIT, LOG OF COMMENTS
[Attachment 3]
<i>*Notice to be sent within 5 business days of application</i> | <input checked="" type="checkbox"/> PROJECT PURPOSE AND TECHNICAL OBJECTIVES INFORMATION*
[Attachment 10] |
| <input checked="" type="checkbox"/> PRIOR PERMITS & REGULATORY APPROVALS
[Attachments 4a, 4b, 4c, 4d] | <input checked="" type="checkbox"/> ALTERNATIVE SITES ANALYSIS*
[Attachment 11] |
| <input checked="" type="checkbox"/> PROPERTY OWNER'S AUTHORIZATION
[Attachment 5] | <input type="checkbox"/> STRUCTURAL CERTIFICATION (if applicable)
[Attachment 12] |

APPLICATION REQUIREMENTS – REQUIRED MATERIALS

The following Application Requirements contain the requirements for a complete wireless facility permit application. For the application to be deemed complete, the applicant must submit **all** the applicable application materials in the Application Checklist in accordance with the Application Requirements along with all other generally applicable materials required for the requested permit or approval.

Notes: All starred (*) items are ***not required*** for a Section 6409 Approval. After the City issues the requested permit, the applicant must obtain all other required permits (including, without limitation and as applicable, building, electrical, plumbing, encroachment, etc.) prior to performing the installation.

APPLICATION FORM AND DEPOSIT

Instructions: Complete the Wireless Facilities Permit Application available on the City's website or at the Public Works Department and submit the corresponding application deposit for the requested permit or approval. You may find the City's fee schedule on the City's website or contact the Public Works Department for appropriate filing fees.

PROJECT PLANS

Instructions: Provide two sets of complete 24 x 36-inch project plans drawn to a scale of not less than 1/16" equals one foot and a digital file of such plans in portable document format (PDF). Project plans must contain all the following:

1. Cover Sheet

A complete cover sheet must include at a minimum:

- a detailed project description that specifies the proposed installation and/or modifications including without limitation all physical elements such as antennas, radios, power services, all cables, mounts, and all other elements of the proposed project
- site information that includes the proposed site address, site latitude and longitude (WGS 84 datum), zoning classification of the nearest private property, project team contact information site map, and pole number (if applicable)

2. Site Survey (Only required for proposed ground mounted equipment)

Only a California-registered Civil Engineer or licensed surveyor may prepare the site survey. A complete site survey must include:

- property and right-of-way boundaries with all bearings, distances, monuments, iron rods, caps or other markers clearly shown and called out
- boundaries for all easements and/or dedications with all dimensions clearly shown and called out
- approximate topographical contour lines with elevations called out
- any trees at least 4 inches in diameter at a point approximately 4.5 feet above ground
- all structures or improvements on the property or within the right of way within any block partially or entirely occupied by the project and any elements thereof
- all structures or improvements on adjacent parcels within 15 feet from the property line
- a north arrow, date, scale and legend
- wet stamp and wet signature from the licensed preparer
- general specifications and notes identifying the applicable public health and safety codes and standards

3. Site Development Plan

A complete site development plan must include:

- plan-view drawings, which include:
 - the entire property or right-of-way block with the proposed project improvements
 - detailed before-and-after views for any equipment pads, enclosures, cabinets, pedestals and/or vaults
 - all existing and proposed equipment with all dimensions, labels and ownership identifications clearly called out
 - boundaries for all easements, encroachments and/or other rights-of-way for access and utilities in connection with the wireless site with all dimensions clearly shown and called out
 - all existing and proposed primary and backup utilities, including without limitation all cables, connectors, risers, conduits, cable shrouds, trays, bridges and/or doghouses, transformers, disconnect switches, panels, meters, pedestals, cabinets, vaults, generators and/or generator sockets
- detailed before-and-after elevation drawings from all four cardinal directions, which include:
 - all existing and proposed structures, improvements and/or fixtures with all dimensions clearly called out
 - all existing and proposed equipment with all dimensions, labels and ownership identifications clearly called out
 - all existing and proposed fiber optic cables, conduits, risers, guy wires, anchors, primary and secondary power lines clearly called out
- callouts and notes for any proposed new or extended concealment elements
- a north arrow, date, scale and legend

4. Equipment Inventory

The equipment inventory does not need to include primary utility cables, panels or cabinets, or any other objects not primarily designed or intended for radio communications purposes. All other equipment must be inventoried with the following information for each component:

- manufacturer and model number
- basic dimensions (height, width, length and weight)
- table showing volumes of all equipment

VOLUNTARY NEIGHBORHOOD MEETING SUMMARY

Instructions: Provide a summary of neighborhood meeting if conducted. Label the summary as “**Attachment 1 – Neighborhood Meeting Summary**” and attach it to the application. If a meeting is not conducted, mark the checklist box with an “X”.

PHOTO SIMULATIONS

Instructions: Provide photo simulations of the proposed project as constructed. The photo simulations must be in a high-resolution format and show the proposed facility from reasonable line-of-sight locations that would accurately and reliably reflect the appearance of the proposed facility and/or modifications as-built. Label these photo simulations “**Attachment 2 – Photo Simulations**” and attach them to this application. Except as otherwise provided, photo simulations must contain all the following:

1. Current Site Photographs

Current site photographs must include:

- photographs of the existing site from at least two different reasonable line-of-sight locations from public streets or other adjacent viewpoints;
- a map detail showing each location where a photograph was taken, the proposed site and the direction to the site from each photo location;
- Include a close-up view of the equipment, including all wires, conduits, equipment, etc.

2. Photo Simulations

Photo simulations must include:

- an accurate and reliable visual representation of the proposed facility from the same reasonable line-of-sight locations used in the current site photographs and must include without limitation all interconnecting cables, conduits, brackets, and electronic equipment such as antennas, radio units, powering, and the like;
- a map detail showing each location where a photograph was taken, the proposed site and the direction to the site from each photo location;
- Include a close-up view of the equipment, including all wires, conduits, equipment, etc.

3. Section 6409 Photo Simulation

For Section 6409 Approval applications, the applicant must provide at least one photo simulation that demonstrates the impact of the proposed modification on all concealment elements of the support structure. Concealment elements include but are not limited to radomes, cable shrouds, painting, landscaping, equipment enclosures and designs and/or techniques intended to blend with the surrounding built and/or natural environment.

PUBLIC NOTICE, AFFIDAVIT, LOG OF COMMENTS

Instructions: Provide a copy of the notice mailed to all property owners and residents within 500' of the proposed project, proof of notification mailing (affidavit), and log of concerns, comments, questions with response in accordance with the Application Requirements and Design Standards. Label the notice, affidavit and log "**Attachment 3 – PUBLIC NOTICE, AFFIDAVIT, LOG**" and attach it to this application.

PRIOR PERMITS AND REGULATORY APPROVALS

Instructions: Provide true and correct copies of all the following:

1. Prior Permits

If the applicant requests a Section 6409 Approval, provide copies of all prior local regulatory approvals (original siting permits and any modification permits) issued for the facility with any corresponding conditions of approval and project plans approved by the applicable regulatory authority. Alternatively, the applicant may submit a written justification that sets forth the reasons why prior regulatory approvals were not required for the wireless facility at the time it was constructed or modified. Label this documentation "**Attachment 4a – Prior Permits**" and attach it to this application.

2. FCC Licenses

If the applicant or service provider proposes to operate in FCC-licensed spectrum, provide proof of licenses for all planned operating bands. If there are federal build-out requirements, indicate which and whether they have been fully satisfied. If not satisfied, indicate what remains to be satisfied. Label this documentation "**Attachment 4b – FCC Licenses**" and attach it to this application.

3. FAA Forms

If the proposed facility requires the applicant to file FAA form 7460 or other documentation under Federal Aviation Regulation Part 77.13 *et seq.*, or under the FCC rules, provide such documentation. Label this documentation "**Attachment 4c – FAA Forms**" and attach it to this application.

4. Certificate of Public Convenience and Necessity (CPCN) / Wireless ID Registration (WIR)

For all applications for facilities in the public right-of-way, provide a true and correct copy of the applicant's CPCN and/or WIR issued by the California Public Utilities Commission or its successor agency. Label this documentation "**Attachment 4d – CPCN / WIR**" and attach it to this application.

POLE OWNER'S AUTHORIZATION

Instructions: For privately owned poles, provide a letter of authorization from the pole owner that authorizes the applicant to perform the installation or modification. The letter must be signed by the owner. In lieu of a letter of authorization for facilities in the public right-of-way, the applicant may submit the property owner's standard authorization form issued in the property owner's regular course of business to demonstrate that the applicant has the authority to perform the installation or modification. Label this authorization "**Attachment 5 – Property Owner's Authorization**" and attach it to this application.

INITIAL CEQA ASSESSMENT

Instructions: Complete, sign and attach to this application a fully executed Environmental Information Form. Label this form "**Attachment 6 – Environmental Information Form**" and attach it to this application. The Environmental Information Form may be obtained electronically on the City's website or by contacting the Public Works Department.

RF COMPLIANCE REPORT

Instructions: Provide an RF exposure compliance report prepared and certified by an RF engineer that certifies that the proposed facility, as well as any collocated facilities and any cumulative emissions from adjacent areas, will comply with applicable federal RF human exposure standards and limits. At a minimum, the RF exposure compliance report must provide the same information and in the same form as the FCC LSGAC Appendix A form for each band of operations. For projects on or attached to poles subject to CPUC General Order 95 regulation, provide evidence of compliance with CPUC General Order 95, Rule 94. Label this report "**Attachment 7 – RF Compliance Report**" and attach it to this application.

The RF compliance report must include:

- the actual frequency, actual or maximum power levels (in watts effective radiated power (ERP)), and the actual or maximum transmitting channels for all existing and proposed antennas at the site.
- exhibits that show:
 - the location and orientation of all transmitting antennas;
 - the boundaries of areas with RF exposures (whether individually or cumulatively) in excess of the uncontrolled/general population limit (as that term is defined by the FCC);
 - the boundaries of areas with RF exposures (whether individually or cumulatively) in excess of the controlled/occupational limit (as that term is defined by the FCC).

Note: Each such boundary must be clearly marked and identified for every transmitting antenna at the project site, whether owned/operated by the applicant or another licensee. To the extent that the project site contains collocated transmitters from multiple operators, the RF exposure compliance report must evaluate all the transmitting antennas that may cause cumulative emissions.

NOISE COMPLIANCE REPORT

Instructions: Provide a noise compliance report for the proposed facility and all associated equipment including all environmental control units, sump pumps, temporary backup power generators, and permanent backup power generators in order to demonstrate compliance with the City's noise regulations. The noise compliance report must be prepared and certified by an engineer and include an analysis of the manufacturers' specifications for all noise-emitting equipment and a depiction of the proposed equipment relative to all adjacent property lines. In lieu of a noise compliance report, the applicant may submit evidence from the equipment manufacturer that the ambient noise emitted from all the proposed equipment will not, both individually and cumulatively, exceed the applicable limits. Label this analysis "**Attachment 8 – Noise Compliance Report**" and attach it to the application.

SECTION 6409 EVALUATION

Instructions: If the applicant requests approval pursuant to Section 6409(a) of the Middle Class Tax Relief and Job Creation Act of 2012 (codified as 47 U.S.C. § 1455(a)), the applicant must complete and submit justification whether the proposed modification is an eligible facilities request that complies with the applicable FCC substantial change thresholds. Label this worksheet "**Attachment 9 – Section 6409 Evaluation**" and attach it to the application.

PROJECT PURPOSE AND TECHNICAL OBJECTIVES*

Instructions: For applications not subject to Section 6409, provide the following information to demonstrate the intended technical service objectives and the nature of the existing service capabilities of the applicant's network in the area that would be served by the proposed facility or enhanced by the proposed modification. Label this analysis "**Attachment 10 – Project Purpose and Technical Objectives**" and attach it to the application.

1. Project Purpose

Identify and describe the project purpose. Possible responses analyze whether the proposed facility or modification will:

- add new personal wireless *service coverage* to an area in which the licensee does not currently provide any personal wireless service coverage;
- add new personal wireless *service capacity* to an area in which the licensee currently provides personal wireless service coverage.

If the project has a different purpose from the options described above, provide such purpose in full detail.

2. Technical Objectives

Provide a detailed written statement that describes the technical objectives the applicant intends the proposed wireless facility to achieve and the factual reasons why the proposed location, centerline height and equipment configuration are necessary to achieve those objectives. In addition, the statement must include all the following required information and/or materials:

- a street-level map that shows the general geographic area of the service area(s) to be improved through the proposed wireless facility (the "Service Area");
- a written narrative that describes the uses (commercial, residential, primary thoroughfare, highway, etc.) within the Service Area, and the manner in which those uses would be negatively affected if the Service Area were to remain unaddressed;
- a statement as to whether the applicant conducted any drive test(s) and, if so, all drive test results and data (in .XLS or .CSV or similar format) together with a report that describes how and when the applicant conducted such test(s).

3. Network Map

Provide an overview map of the applicant's network within the City's jurisdictional and territorial boundaries that shows (1) all the existing wireless facilities that applicant currently owns and/or operates and (2) all future wireless facilities that are reasonably foreseeable within two years of the application submission. The map must provide a legend that

distinguishes between “macro” cells and small cell facilities.

ALTERNATIVE SITES ANALYSIS*

Instructions: For applications not subject to Section 6409, provide a detailed written analysis that describes how the proposed wireless facility complies with all the applicable requirements in the San Mateo Municipal Code, which includes without limitation the provisions specific to wireless facilities, and all the alternative locations and designs considered before submitting this application. Label this analysis “**Attachment 11 – Alternative Sites Analysis**” and attach it to the application. The Alternative Sites Analysis shall be included as part of the neighborhood meeting, if conducted. In addition, the analysis must include all the following required information and/or materials:

- a street-level map that shows the general geographic area surrounding the proposed location annotated to show:
 - all existing wireless facilities within the relevant geographic area
 - the search ring used for this particular project. The search ring shall be a minimum radius of 500’.
 - all locations for each alternative considered for this particular project
- for each alternative site considered, a detailed written description that includes, without limitation all the following:
 - the nearest physical address
 - zoning district designation for the nearest private property
 - support structure type considered
 - general design concept and concealment elements/techniques considered
 - overall height and achievable antenna centerline height
 - the factual reasons why the applicant considered the potential alternative site location and/or design to be unacceptable, infeasible, unavailable or not in accordance with the development standards in San Mateo Municipal Code Chapter 17.10. **Note:** This explanation must include a meaningful comparative analysis and such technical information and other factual justification as are necessary to document the reasons why each alternative is unacceptable, infeasible, unavailable or not as consistent with the development standards in Chapter 17.10. Conclusory statements that a particular alternative is unacceptable, infeasible, unavailable or not in accordance with the development standards in Chapter 17.10 will be deemed incomplete.
- If the applicant did not locate any alternatives within the search ring, the analysis must expressly state that no such alternatives were considered.

STRUCTURAL CERTIFICATION

Instructions: Provide certification prepared and stamped by a professionally licensed structural engineer certifying that the pole foundation and attachments meet or exceed design parameters detailed in the design standards. Label this analysis “**Attachment 12 – Structural Certification**” and attach it to the application.

Project Plans



CROWN CASTLE

PROJECT NAME: VCA2 SAN MATEO BRIDGE HEADEND
PROJECT ADDRESS: 535 CLARK DR, SAN MATEO, CA 94402
COORDINATES: LAT: 37.565984° LONG: -122.349195°
POLE ID #: 110072203
PROJECT TYPE: EXISTING WOOD POLE
CUSTOMER NODE ID #: 580714
CROWN NODE ID #: CA_SF_SANMATEO_210M2
HUB NAME: SAN MATEO HUB
CARRIER: VERIZON
CROWN CASTLE BILLING / SCU #: 509081

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D1.2	ELECTRICAL DETAILS	6
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CROWN CASTLE
 CROWN CASTLE
 ONE PARK PLACE, STE. 300
 DUBLIN, CA 94568

RECORD DRAWINGS ISSUE DATE: 09/18/2023



Exp. 09/01/24

PREPARED BY:



3875 EMBASSY PARKWAY, SUITE 280
 AKRON, OH 44333
 PHONE: (216) 505-7775
 WWW.KIMLEY-HORN.COM

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Know what's below.
 Call before you dig.
 California and Nevada
 Call Two Working Days Before You Dig!
 811 / 800-227-2600

RELEASE	
DATE	SUBMITTAL

REVISIONS		
NO.	DATE	ISSUED FOR CONSTRUCTION COMMENT
1	09/18/2023	ISSUED FOR CONSTRUCTION
0	09/17/2023	ISSUED FOR CONSTRUCTION
A	09/07/2023	ISSUED FOR REVIEW

PROJECT NAME
 VCA2 SAN MATEO BRIDGE HEADEND

CROWN NODE ID NUMBER
 CA_SF_SANMATEO_210M2

NODE ADDRESS
 535 CLARK DR
 SAN MATEO, CA 94402

HUB NAME
 SAN MATEO HUB

KH JOB NUMBER IN HOUSE
 KHCLC-46961 DRAWN BY: EJS
 CHECKED BY: TDR

SHEET TITLE
 TITLE SHEET

SHEET NUMBER **PAGE**
 T1.1 1 OF 7

PLOT SCALE: 1:1 @ 24"x36", 1:2 @ 11"x17"

PROJECT TEAM

CIVIL
 Company: KIMLEY-HORN
 Address: 3875 EMBASSY PKWY, SUITE 280
 AKRON, OH 44333
 Contact: TYLER REISSETTER
 Phone: 216.273.8299
 Email: tyler.reisetter@kimley-horn.com

APPLICANT INFO
 Company: CROWN CASTLE
 Address: 1 PARK PLACE
 DUBLIN, CA 94568
 Contact: JASON CAMARENA
 Phone: 925.201.5806
 Email: jason.camarena@crowncastle.com

CROWN CASTLE UTILITY CONTACT
 Contact: EARLE CARRION
 Phone: 408.468.5538
 Email: earle.carrion@crowncastle.com

PROJECT SUMMARY

JURISDICTION:
 CITY OF SAN MATEO
HANDICAPPED REQUIREMENTS:
 -FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
HANDICAPPED ACCESS:
 REQUIREMENTS ARE NOT REQUIRED.

POLE OWNER INFO:
 PACIFIC GAS & ELECTRIC COMPANY (PG&E)
 P.O. BOX 997300
 SACRAMENTO, CA 95899
STREET CLASSIFICATION:
 LOCAL

POWER COMPANY:
 PACIFIC GAS AND ELECTRIC (PG&E)

ADJACENT PARCEL INFORMATION:
 PARCEL ID: 031061260
 ZONING CLASSIFICATION: R1A

PLUMBING REQUIREMENTS:
 FACILITY HAS NO PLUMBING

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

- CALIFORNIA BUILDING CODE CBC-2019.
- CALIFORNIA ADMINISTRATIVE CODE. (INCL. TITLES 24 & 25) 2019.
- ANSI/EIA-222-F LIFE SAFETY CODE NFPA.
- BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA).
- CALIFORNIA ELECTRICAL CODE CEC-2019.
- CALIFORNIA MECHANICAL CODE CMC-2019.
- CALIFORNIA PLUMBING CODE CPC-2019.
- LOCAL BUILDING CODE(S).
- COUNTY AND/OR COUNTY ORDINANCES.
- MUST COMPLY TO LATEST CALIFORNIA FIRE CODE (AND LATEST MUNICIPAL FIRE CODE).
- CALIFORNIA GENERAL ORDER 95 AND 128.

PROJECT DESCRIPTION

THIS PROJECT WILL INCLUDE THE INSTALLATION OF A NEW WIRELESS RADIO FACILITY AND ASSOCIATED EQUIPMENT TO AN EXISTING WOOD POLE (ALL POLE ATTACHMENTS TO BE APPROVED BY POLE OWNER).

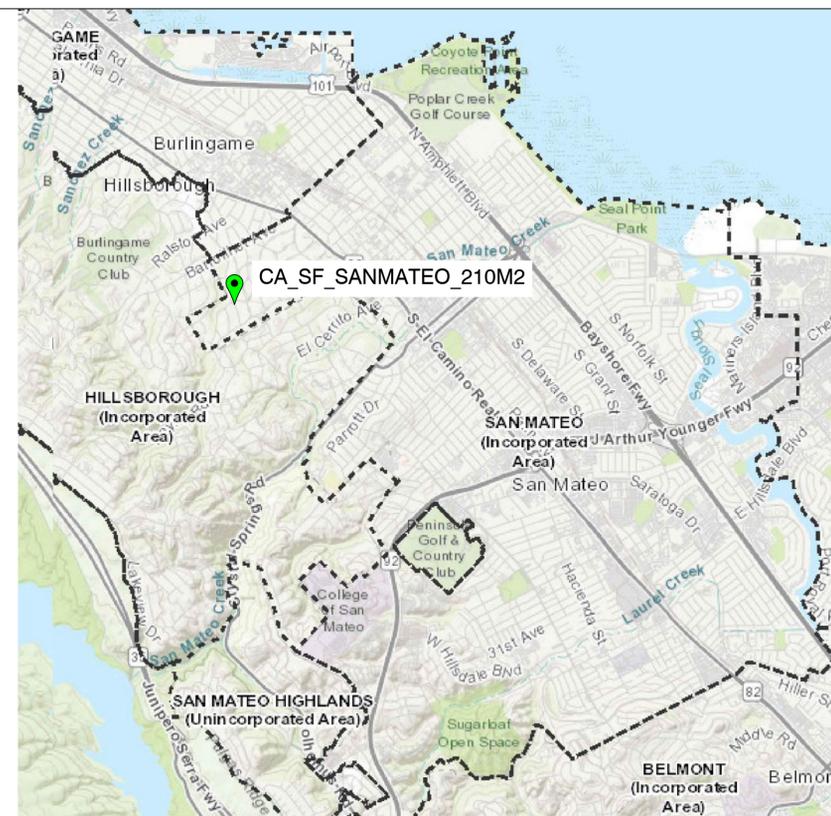
NEW EQUIPMENT WILL INCLUDE (REFER TO DETAIL PAGES FOR SPECIFICATION):

- (3) 5G RADIOS/ANTENNAS
- (1) 60A CT RATED SMART POLE METER

EXCAVATION/RESTORATION WILL INCLUDE:

- (2) GROUND WELLS
- (2) TRENCH

NODE VICINITY MAP

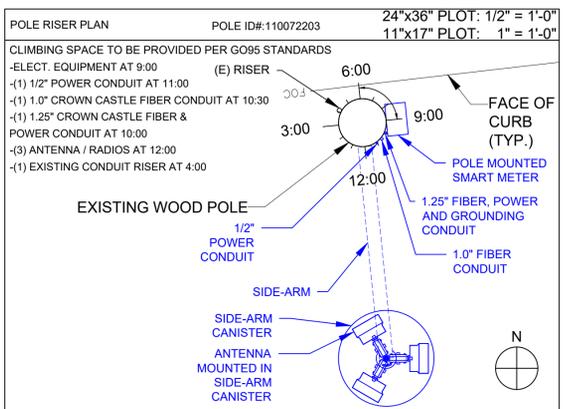


GENERAL PROJECT NOTES

- RIGHT-OF-WAY USE PERMIT SHALL BE OBTAINED BY CONTRACTOR PRIOR TO COMMENCING WORK.
- ALL WORK TO BE CONDUCTED IN CITY RIGHT OF WAY, U.N.O.
- ALL DISTURBED LANDSCAPING SHALL BE REPLACED TO SIMILAR EXISTING CONDITION.
- ANY SIDEWALK CLOSURE SHALL BE COORDINATED WITH THE CITY AND PROPER SIGNAGE WILL BE PLACED.
- TEMPORARY LIGHTING WILL BE COORDINATED WITH CITY AND PROVIDED WHENEVER EXISTING LIGHTING IS REMOVED OR UNAVAILABLE AS REQUIRED.
- NO MATERIALS OR EQUIPMENT SHALL BE STORED ON PRIVATE PROPERTY OR BLOCK ACCESS TO PRIVATE PROPERTY.
- CLEANUP OF THE WORK AREA WILL BE COMPLETED EACH EVENING AND THE PROJECT AREA WILL BE RETURNED TO EXISTING CONDITION AT THE COMPLETION OF CONSTRUCTION AT EACH NODE LOCATION.
- ALL WORK TO COMPLY WITH OSHA AND CITY GUIDELINES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REPLACE, AT THEIR COST, ANY AND ALL DAMAGED PAVEMENT, SIDEWALK, CURB AND GUTTER OUTSIDE THE PAY LIMIT, DAMAGE DUE TO THEIR ACTIVITIES ON THE PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL AND REPLACEMENT OF NEWLY CRACKED, THE REMOVAL AND REPLACEMENT OF EXISTING CRACKS WHERE THE CRACKS HAVE BEEN ENLARGED DUE TO THE CONTRACTORS OPERATIONS, THE REMOVAL AND REPLACEMENT OF DEFORMED PAVEMENT, CURB AND GUTTER, SIDEWALK, ETC.. ALL SAW CUTS USED FOR THE REMOVAL OF THESE ITEMS SHALL BE PERPENDICULAR AND PARALLEL TO THE CENTERLINE CONTROLLING THAT ITEM, OR AT THE DISCRETION OF THE CITY INSPECTOR.

ABBREVIATIONS AND SYMBOLS

- CENTER LINE
- - - - - PROPERTY LINE
- ROW-ROW- RIGHT-OF-WAY
- F-F- FIBER
- G-G- GAS
- P-P- POWER
- S-S- SANITARY SEWER
- SD-SD- STORM DRAIN
- W-W- WATER
- P-P- LIGHT CIRCUIT POWER
- OHU-OHU- OVERHEAD UTILITY LINE



PROPOSED ANTENNA AZIMUTHS

SECTOR 1: 90
SECTOR 2: 210
SECTOR 3: 330

CROWN CASTLE NODE #: CA_SF_SANMATEO_210M2

GPS COORDINATES:
LAT: 37.565984°
LONG: -122.349195°

POLE TYPE: EXISTING WOOD POLE
POLE ID #: 110072203

ANTENNA RAD CENTER: 19'-11"

SUBJECT POLE IS LOCATED IN: CITY OF SAN MATEO R.O.W.

CROWN CASTLE
CROWN CASTLE
ONE PARK PLACE, STE. 300
DUBLIN, CA 94568

RECORD DRAWINGS ISSUE DATE:
09/18/2023

PREPARED BY:
Kimley Horn

3875 EMBASSY PARKWAY, SUITE 280
AKRON, OH 44333
PHONE: (216) 505-7775
WWW.KIMLEY-HORN.COM

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RELEASE

DATE	SUBMITTAL

REVISIONS

NO.	DATE	ISSUED FOR	COMMENT
1	09/18/2023	ISSUED FOR CONSTRUCTION	
0	09/17/2023	ISSUED FOR CONSTRUCTION	
A	09/07/2023	ISSUED FOR REVIEW	

PROJECT NAME
VCA2 SAN MATEO BRIDGE HEADEND

CROWN NODE ID NUMBER
CA_SF_SANMATEO_210M2

NODE ADDRESS
535 CLARK DR
SAN MATEO, CA 94402

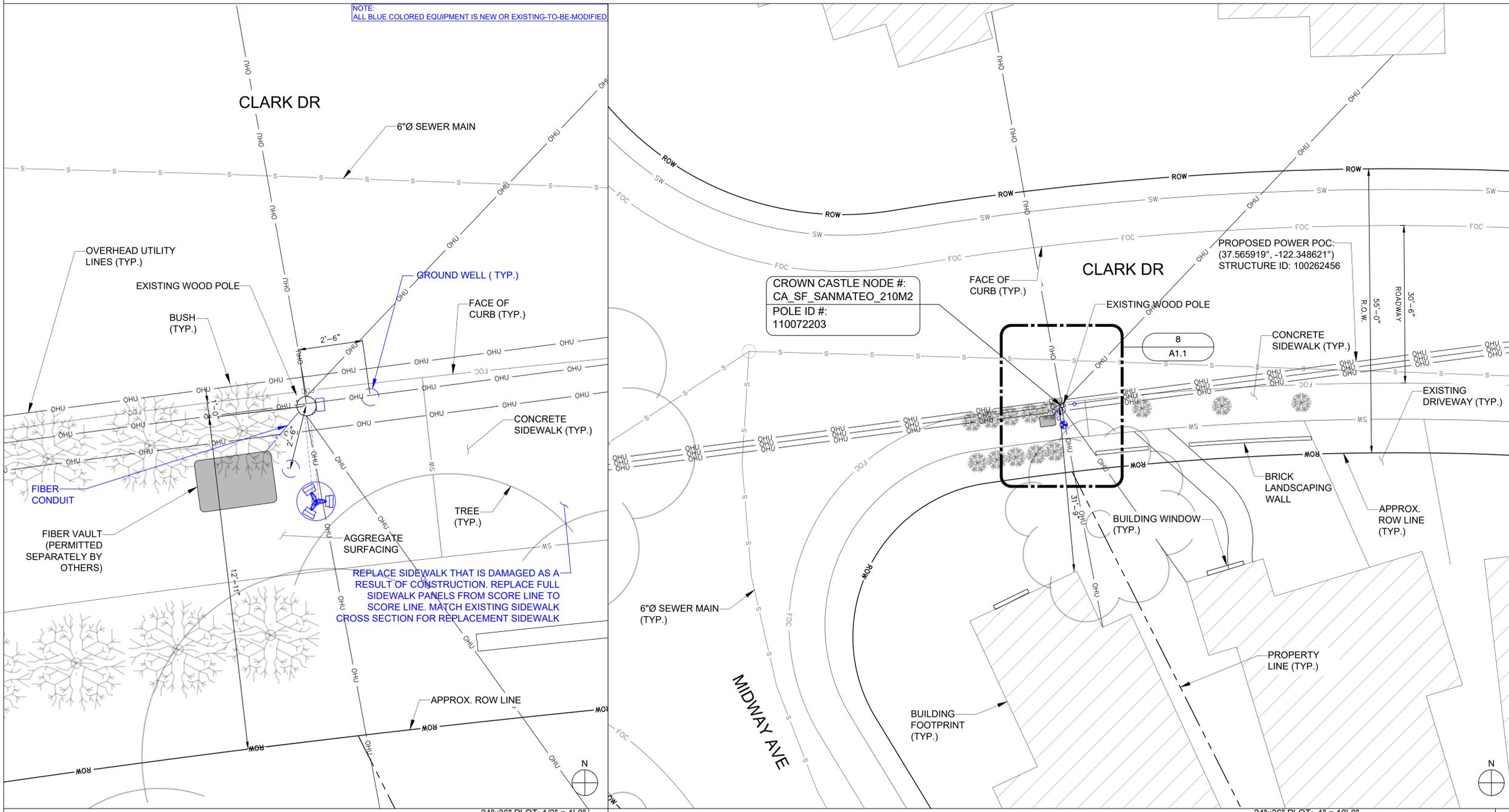
HUB NAME
SAN MATEO HUB

KH JOB NUMBER **IN HOUSE**
KHCLC-46961 DRAWN BY: EJS
CHECKED BY: TDR

SHEET TITLE
SITE PLAN

SHEET NUMBER **PAGE**
A1.1 2 OF 7

PLOT SCALE: 1:1 @ 24"x36", 1:2 @ 11"x17"

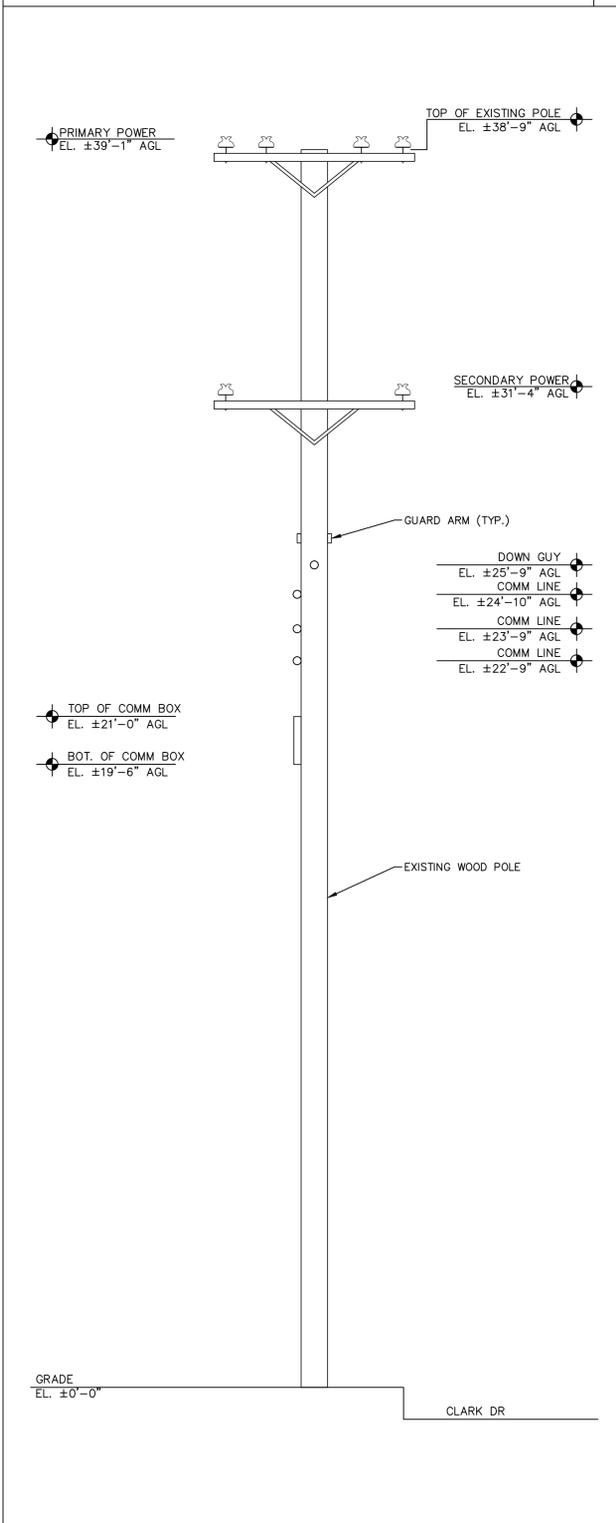


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Sep 18, 2023 1:59:10pm

(E) POLE TYPE: WOOD POLE
 (E) POLE HEIGHT: 38'-9"
 (E) POLE OWNER: PG&E

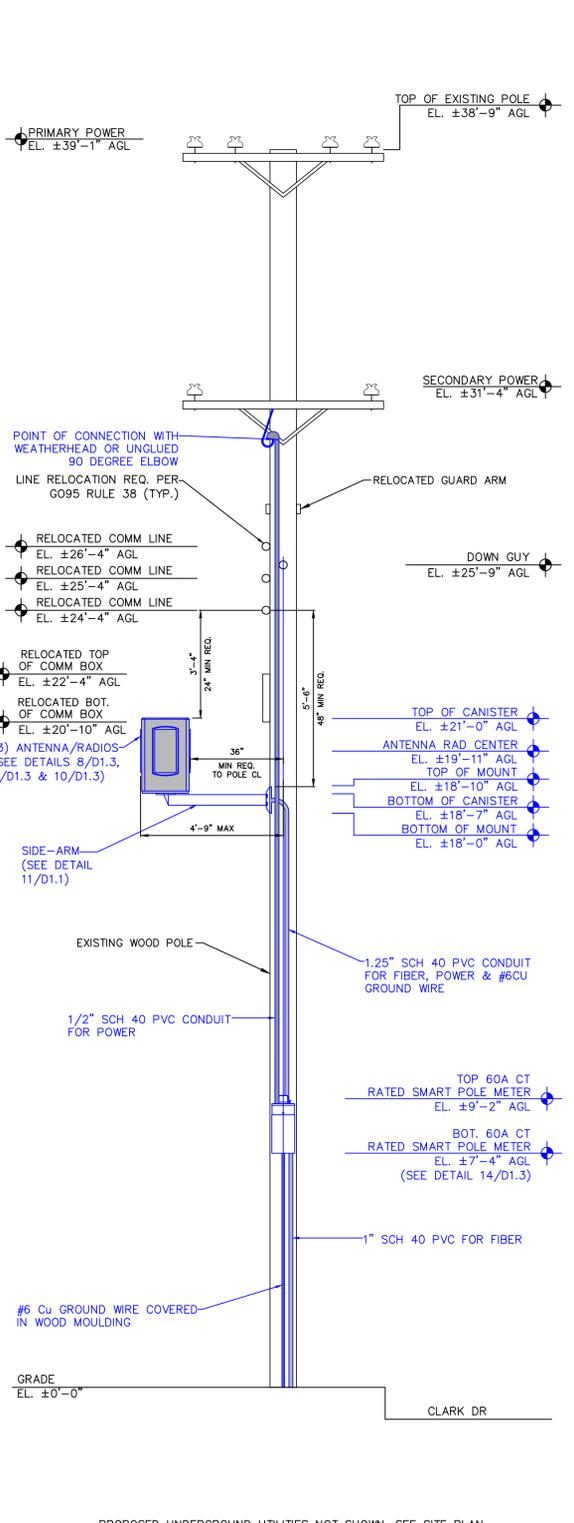
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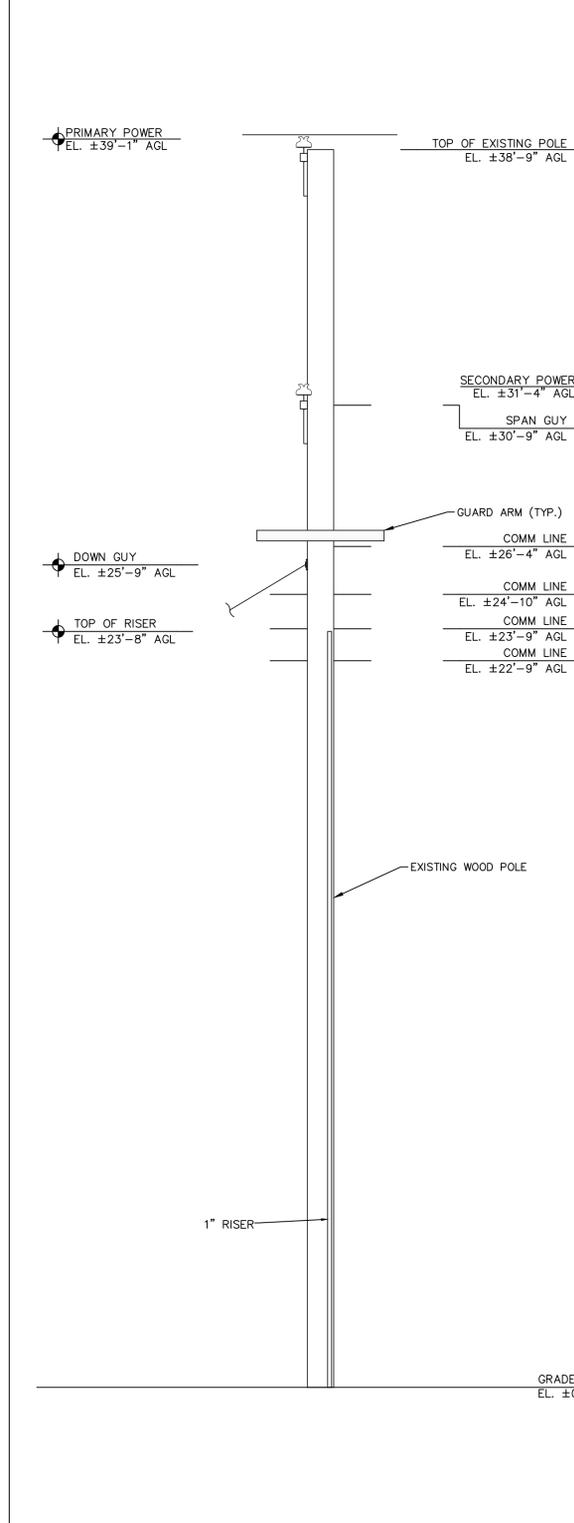


NOTES:
 1. ALL BLUE COLORED EQUIPMENT IS NEW OR EXISTING-TO-BE-MODIFIED
 2. ALL AZIMUTHS SHOWN ON THIS PAGE ARE GENERIC - SEE PAGE A1.1 FOR SPECIFIC AZIMUTH DETAILS
 3. ALL NEW EQUIPMENT TO BE PAINTED / WRAPPED TO MATCH POLE COLOR

POLE INFORMATION SCALE: N.T.S. 1

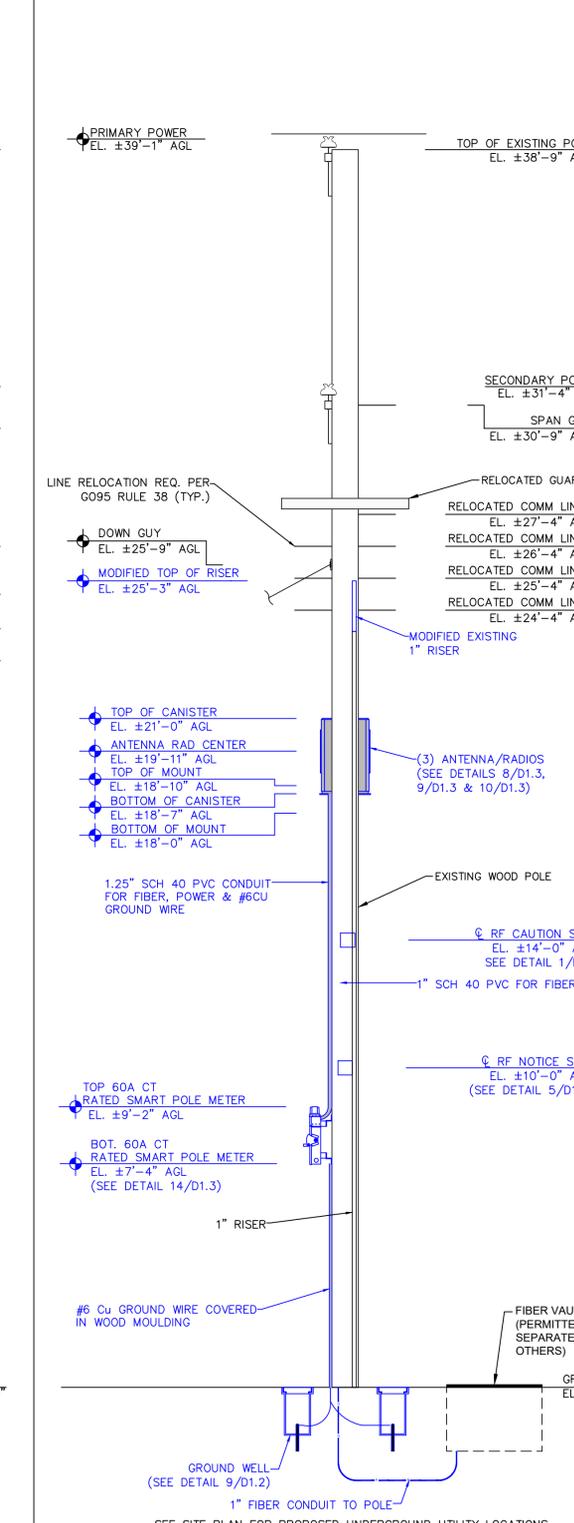


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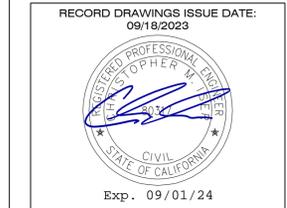


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 3. ALL NEW EQUIPMENT TO BE PAINTED / WRAPPED TO MATCH POLE COLOR

POLE INFORMATION SCALE: N.T.S. 1



CROWN CASTLE
 CROWN CASTLE
 ONE PARK PLACE, STE. 300
 DUBLIN, CA 94568



RECORD DRAWINGS ISSUE DATE:
 09/18/2023
 Exp. 09/01/24

PREPARED BY:
Kimley-Horn
 3875 EMBASSY PARKWAY, SUITE 280
 AKRON, OH 44333
 PHONE: (216) 505-7775
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CROWN NODE ID NUMBER
CA_SF_SANMATEO_210M2

NODE ADDRESS
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 SAN MATEO, CA 94402

HUB NAME
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KH JOB NUMBER **IN HOUSE**
KHCLC-46961 DRAWN BY: EJS
 CHECKED BY: TDR

SHEET TITLE
POLE ELEVATIONS

SHEET NUMBER **A1.2** PAGE **3 OF 7**

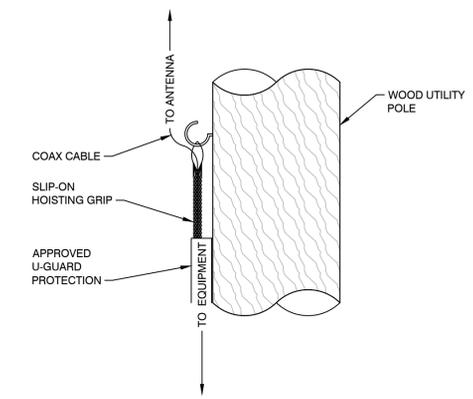
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POLE ELEVATIONS - EXISTING (LOOKING WEST)	24"x36" PLOT: 3/8" = 1'-0" 11"x17" PLOT: 3/16" = 1'-0"	4	POLE ELEVATIONS - PROPOSED (LOOKING WEST)	24"x36" PLOT: 3/8" = 1'-0" 11"x17" PLOT: 3/16" = 1'-0"	8	POLE ELEVATIONS - EXISTING (LOOKING SOUTH)	24"x36" PLOT: 3/8" = 1'-0" 11"x17" PLOT: 3/16" = 1'-0"	12	POLE ELEVATIONS - PROPOSED (LOOKING SOUTH)	24"x36" PLOT: 3/8" = 1'-0" 11"x17" PLOT: 3/16" = 1'-0"	20
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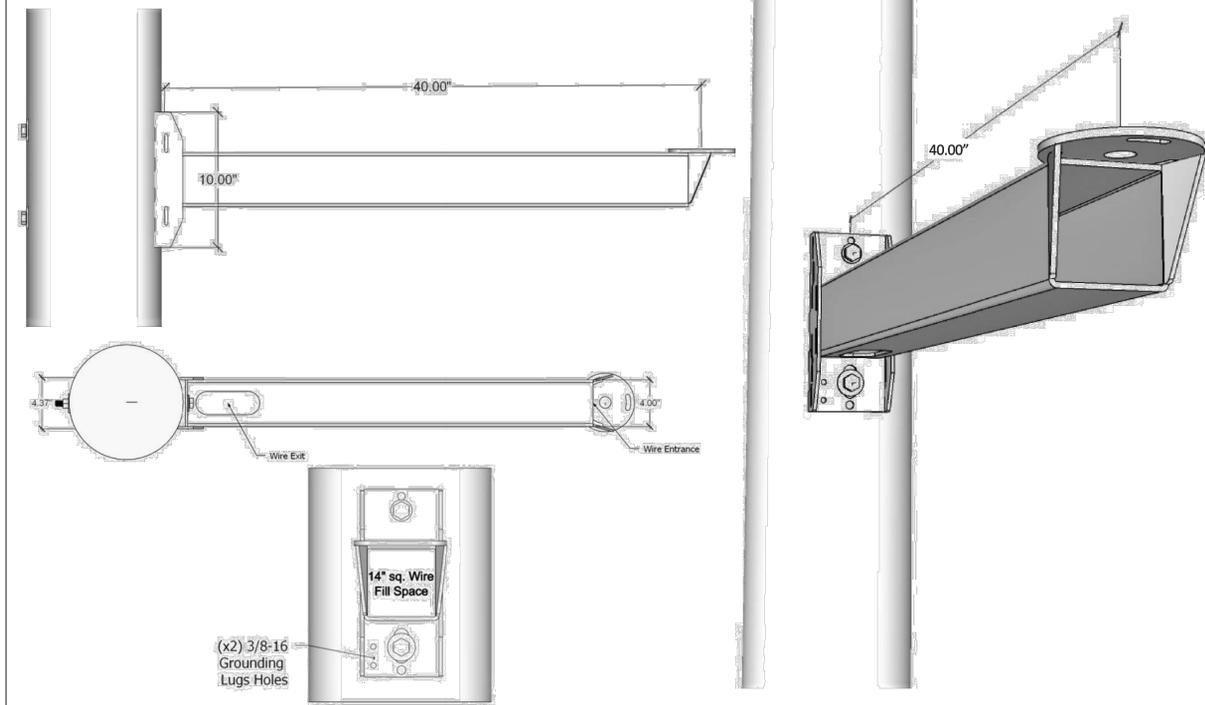
CAUTION
 Keep Back FT From
 this Antenna. FCC RF Public
 Exposure Limits May Be
 Exceeded Within This Distance.
 Call 888-632-0931 for Instructions.
 Qualified Workers:
 FCC Occupational Limits May Be
 Exceeded Within This Distance.
 Site ID # _____

NOTICE
POLE WORKERS
 There is an antenna operation
 high on this pole. Please follow
 guidance on signs near the antenna or
 call the number below.
 Site ID # _____
 CROWN CASTLE 888-632-0931 Rev. A



RF CAUTION SIGNAGE SCALE: NTS 1 RF NOTICE SIGNAGE SCALE: NTS 5 COAX HANGER DETAIL SCALE: NTS

ITEM NO.	PART NUMBER	DESCRIPTION PART NAME	DIMENSIONS	MATERIAL	QTY	UNIT WT. LBS
1	SAB-RW4-40"	Side Arm Bracket Raceway 4" Square 40" Length	Length 40" Width 4.375" Height 10" Square 4"	Hot Rolled Steel Galvanized	X1	22 lbs.



NYM
 6 Clain Street Rochester, NY 14611
 P: 585-254-9353 NYMFG.COM

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 MANUFACTURING IS PROHIBITED

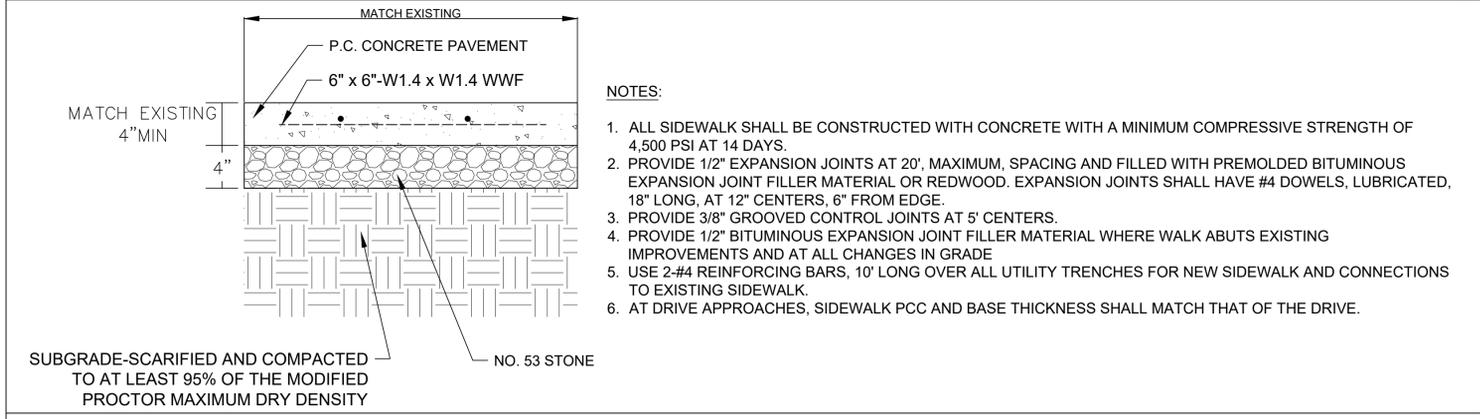
FILE: _____
 COMMENTS: _____
 DESCRIPTION: Side Arm Bracket Raceway 4" Square 40" Length

DRAWN BY: SAL ANSELMO DATE: 8/17/2023

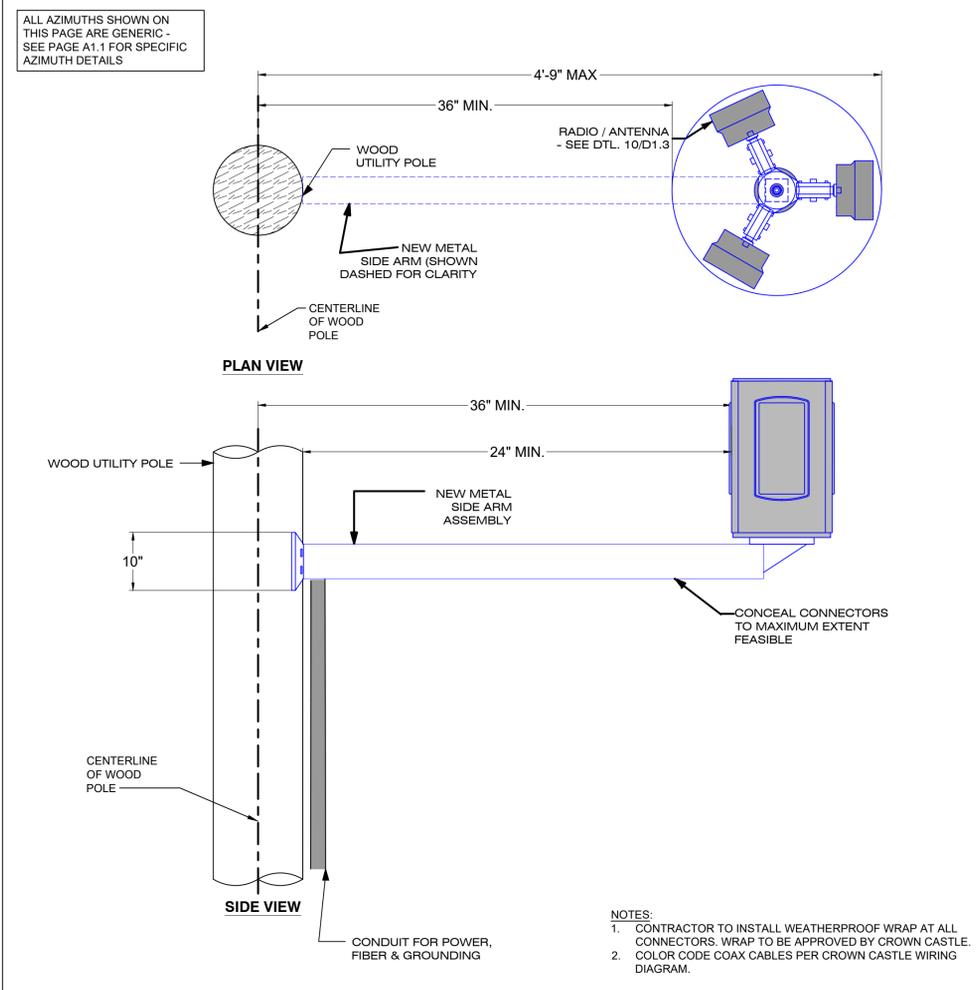
REV	DESCRIPTION	DATE	BY

PAGE: 2 of 3
 PART NUMBER: SAB-RW4-40"

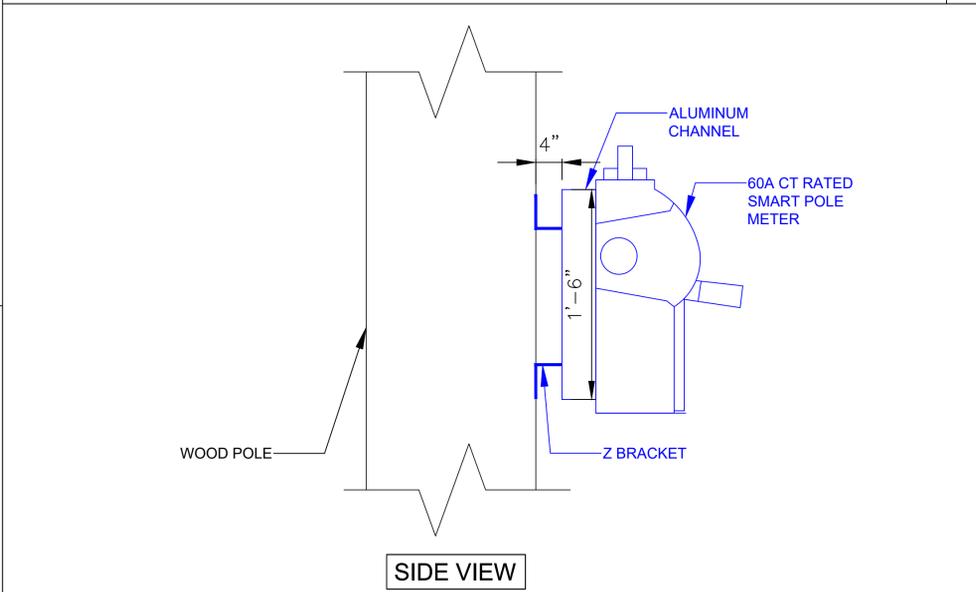
SIDE-ARM (NYM SAB-RW4-40") SCALE: NTS 11



CONCRETE SIDEWALK STANDARD SCALE: NTS 20



RADIO / ANTENNA MOUNTING DETAIL SCALE: NTS 18



NOTE: CONTRACTOR TO SUPPLY ADDITIONAL HARDWARE FOR ATTACHMENT AS NEEDED.

EQUIPMENT MOUNTING DETAIL SCALE: NTS 8



CROWN CASTLE
 ONE PARK PLACE, STE. 300
 DUBLIN, CA 94568

RECORD DRAWINGS ISSUE DATE:
 09/18/2023

PREPARED BY:
Kimley»Horn
 3875 EMBASSY PARKWAY, SUITE 280
 AKRON, OH 44333
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 WWW.KIMLEY-HORN.COM

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CROWN NODE ID NUMBER
 CA_SF_SANMATEO_210M2

NODE ADDRESS
 535 CLARK DR
 SAN MATEO, CA 94402

HUB NAME
 SAN MATEO HUB

KH JOB NUMBER KHCLC-46961
IN HOUSE DRAWN BY: EJS
 CHECKED BY: TDR

SHEET TITLE
 CONSTRUCTION DETAILS

SHEET NUMBER D1.1
PAGE 5 OF 7

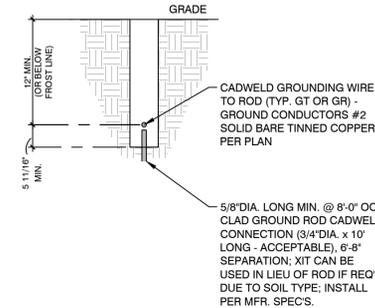
PLOT SCALE: 1:1 @ 24"x36", 1:2 @ 11"x17"

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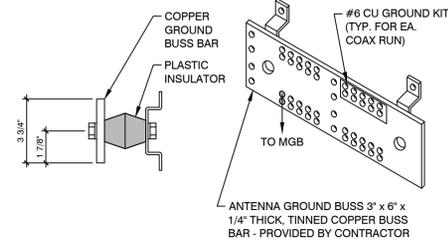
FOR ALL COAX WATERPROOFING INSTALLATIONS, SEE INSTALLATION INSTRUCTIONS FOR

JMA WIRELESS "JMA WEATHER PROTECTION SYSTEM"

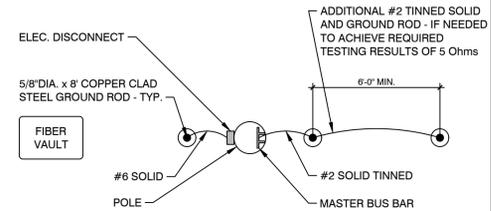
- FOR 1/2" CONNECTIONS TO ANTENNA OR DEVICE
- FOR 1/2" CONNECTIONS TO ANTENNA OR DEVICE USING WPS-DF-CUTTER
- FOR WPS-N, 1/2" NM CONNECTOR TO PORT
- FOR WPS-DRA, MALE TO PORT
- FOR 1/4" CONNECTIONS TO ANTENNA OR DEVICE



- NOTES:
- ALL CONNECTORS MUST BE DOUBLE LUG.
 - MOUNT ANTENNA GROUND BUSS VERTICALLY BEHIND LOWER ANTENNA ARRAY



- CADWELD - SEE DETAIL 1/E1.1
- ▲ MECHANICAL CONNECTION
- ⊥ GROUND BAR - COPPER - SIZE AS NEEDED
- GROUND ROD - SEE DETAIL 9/E1.1

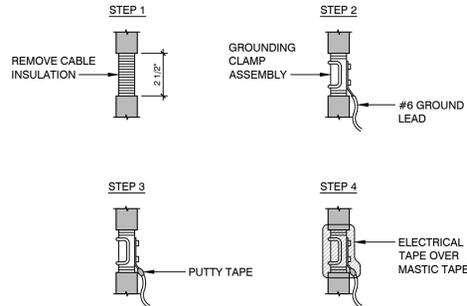


COAX WATERPROOFING - FUSION TAPE TYPE SCALE: NTS 5

COAX WATERPROOFING - FUSION TAPE TYPE SCALE: NTS 9

GROUND BUS BAR DETAIL SCALE: NTS 13

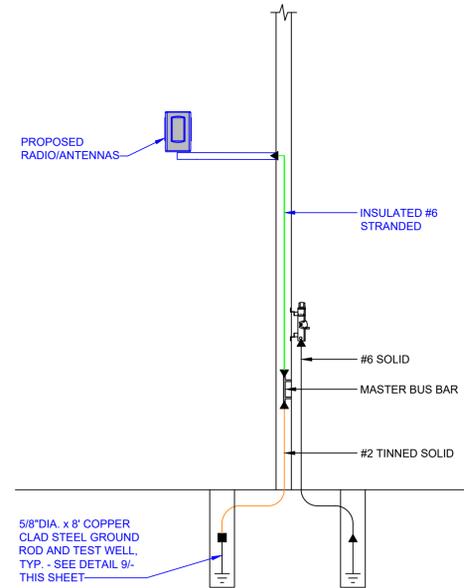
EQUIPMENT GROUNDING SCHEMATIC DETAIL SCALE: NTS 17



- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL OTHER APPLICABLE LOCAL CODES.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL PERMIT FEES, AND SCHEDULE ALL REQUIRED INSPECTIONS. CONTRACTOR SHALL OBTAIN LOCAL POWER COMPANY APPROVAL AND COORDINATE SERVICE ENTRANCE REQUIREMENTS.
- CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND CONTACT PROJECT MANAGER WITH DISCREPANCIES FROM PLAN.
- CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED.
- CONDUCTORS SHALL BE INSTALLED IN SCHEDULE 40 CONDUIT (UNDERGROUND) AND IMC OR SCH 80 PVC CONDUIT ABOVE GROUND.
- PROVIDE 2" OR 2 1/2" SCHEDULE 40 PVC UNDERGROUND CONDUIT WITH PULL WIRE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND APS JUNCTION BOX. CONTRACTOR SHALL DETERMINE REQUIRED NUMBER AND LOCATION OF JUNCTION BOXES PER UTILITY STANDARDS.
- USE 1" SCHEDULE 40 PVC CONDUIT AND APPROPRIATE FITTINGS TO ENTER N3R LOAD CENTER.
- CONTRACTOR TO NOTIFY ALL APPROPRIATE PARTIES PRIOR TO CONSTRUCTION AND SHALL PROVIDE AND MAINTAIN A TRAFFIC CONTROL PLAN PER NDOT REQUIREMENTS.
- CONTRACTOR TO LOCATE ALL UTILITIES IN PROJECT AREA PRIOR TO CONSTRUCTION THROUGH BLUE STAKE.
- VERIFY DEPTH OF EXISTING UTILITY CROSSING POINTS VIA APPROVED POTHOLING METHODS AND NOTE ON PLAN SETS FOR AS-BUILT CLOSE OUT.
- NOTE DEPTH AND LOCATIONS OF ALL INSTALLED UTILITIES ON AS-BUILT REDLINE DRAWINGS.
- IF EXISTING IRRIGATION LINES ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY OWNER PRIOR TO DISTURBING OR MODIFYING.
- CONTRACTOR SHALL NOT RELOCATE PROPOSED EQUIPMENT OR POLE LOCATIONS WITHOUT WRITTEN APPROVAL FROM CROWN CASTLE AND PROJECT ENGINEERS.
- MATERIAL SUBSTITUTIONS ARE SUBJECT TO CROWN CASTLE AND ENGINEERING REVIEW PRIOR TO CONSTRUCTION.

POWER CONSUMPTION TABLE				
	DESCRIPTION	QTY	(VA)	WIRE SIZE
1	STREETMACRO 6705	1	500	#12
2	STREETMACRO 6705	1	500	#12
3	STREETMACRO 6705	1	500	#12
TOTAL NON-CONTINUOUS			1500	
TOTAL KVA			1.500	
TOTAL AMPS @ 120V			12.50	
SINGLE PHASE				
TWO WIRE				
FRAME SIZE			60A	
FUSE SIZE			15A	

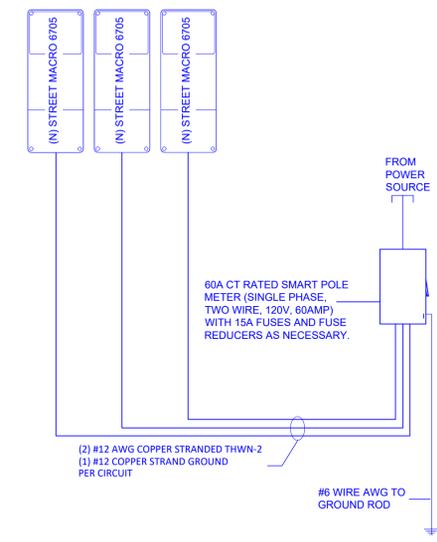
- CADWELD - SEE DETAIL 1/E1.1
- ▲ MECHANICAL CONNECTION
- ⊥ GROUND BAR - COPPER - SIZE AS NEEDED
- GROUND ROD - SEE DETAIL 9/E1.1



COAXIAL CABLE GROUNDING SCALE: N.T.S. 2

ELECTRICAL NOTES SCALE: NONE 6

POWER CONSUMPTION TABLE SCALE: NTS 14



PART 2 - EXECUTION

2.1 EXECUTION

- PROVIDE (1) MAIN GROUND FROM THE ANTENNA MOUNTING BRACKET AT THE TOP OF THE POLE, TO THE MAIN GROUND BUS BAR (TMGB) (LOCATION DEFINED BELOW), MAIN VERTICAL GROUND SHALL CONSIST OF A # 2 SOLID BARE COPPER CABLE. SAID GROUND SHALL BE PROTECTED BY A PVC U-GUARD TO THE TOP OF THE POLE AND STAPLED EVERY 24" WITH CORROSION RESISTANT (DIPPED GALVANIZED) STAPLES.
 - 2 SOLID BARE COPPER CABLE IS HIGHLY SUSCEPTIBLE TO THEFT AND MAY BE A BIT EXCESSIVE TO RUN TO TOP OF POLE. #2 TIN COATED IS RECOMMENDED BY OPS. AS ITS CHEAPER AND LESS LIKELY TO BE STOLEN. BUSS BARS MAY ALSO BE TIN COATED TO MAKE THEM LESS SUSCEPTIBLE TO THEFT.
 - PROVIDE (1) MAIN GROUND FROM THE MAIN GROUND BUS BAR (TMGB) (LOCATION DEFINED BELOW) TO A GROUND ROD AT THE POLE BASE. MAIN GROUND VERTICAL SHALL CONSIST OF A # 2 SOLID BARE COPPER CABLE. SAID GROUND SHALL BE PROTECTED BY A PVC U-GUARD TO THE BOTTOM OF THE POLE AND STAPLED EVERY 24" WITH CORROSION RESISTANT (DIPPED GALVANIZED) STAPLES.
 - GROUND ROD SHALL BE 6" IN DEPTH MINIMUM AND COPPER CLAD.
 - GROUND ROD SHALL BE PLACED PER NEC CODE WITH REGARDS TO DEPTH AND DISTANCE FROM WOOD POLE.
 - GROUND ROD SHALL BE BURIED MINIMUM OF 30" BELOW GRADE.
 - # 2 GROUND SHALL BE ATTACHED DIRECTLY TO THE GROUND ROD VIA CAD WELD.
 - MAIN GROUND VERTICAL SHALL BE ATTACHED DIRECTLY TO A GROUND BUS BAR (TMGB) MOUNTED TO THE FACE OF THE UTILITY POLE. METHOD OF CONTACT SHALL BE 2 HOLE SLOTTED LUG (BROWN) TO THE MAIN GROUND BUS (TMGB) ON THE LEFT OR TOP SLOT DEPENDING ON THE ORIENTATION OF THE TMGB.
 - MAIN GROUND VERTICAL TO THE ANTENNA MOUNTING BRACKET SHALL BE ATTACHED DIRECTLY TO THE ANTENNA BRACKET VIA A SELF-TAPPING BOLT OR SCREW. A WASHER MUST BE ADDED TO THE THRU BOLT OR SCREW TO AVOID DAMAGE TO THE LUG WHILE MAINTAINING A SECURE BOND.
 - TMGB SHALL BE MOUNTED ABOVE THE CHARLES' CABINET BELOW THE RRH STANDOFF, DIRECTLY TO THE WOOD POLE STRUCTURE.
 - ALL POLE MOUNTED DEVICES, INCLUDING BUT NOT LIMITED TO: (ANTENNA MOUNTS AND ANTENNAS, MOUNTING BRACKETS, CABINETS) SHALL BE CONNECTED TO THE TMGB WITH A #6 COPPER STRANDED CABLE UV COATED AND GREEN IN COLOR.
 - ALL POLE MOUNTED DEVICES, INCLUDING BUT NOT LIMITED TO: (ANTENNA MOUNTS AND ANTENNAS, MOUNTING BRACKETS, CABINETS) SHALL BE CONNECTED TO THE TMGB USING COMPRESSION TYPE, 2 HOLE CONNECTOR LUGS.
 - CONNECTOR LUGS MUST ATTACH TO THE BUS BAR WITH TWO HOLES FACING UP AND OUT WITH THE BOLT HEADS ARE ON THE BACK SIDE OF THE BUS BAR.
 - STACKING OF CONNECTOR LUGS IS PROHIBITED.
 - PLACEMENT OF CONNECTOR LUGS ON FRONT AND REAR FACE OF GROUNDING BAR IS PERMITTED.
 - ANY MODIFICATIONS TO THE CONNECTOR LUGS IS PROHIBITED, INCLUDING BUT NOT LIMITED TO GRINDING, CUTTING OR BENDING.
 - CONNECTOR LUGS MUST BE PLACED WITH EVEN SPACING AND MUST NOT COME IN CONTACT WITH ANOTHER CONNECTOR LUG.
 - SLOTTED SIDE OF THE CONNECTOR LUG SHOULD BE PLACED ON THE SLOTTED SIDE OF THE BUS BAR.
 - ALL CONNECTOR LUGS SHALL HAVE TWO (2) COMPRESSIONS PER LUG.
 - ALL CONNECTOR LUGS MUST HAVE NO OX APPLIED TO ANY SIDES WHICH CONTACT ANOTHER METAL TO RETARD OXIDATION INCLUDING AND ESPECIALLY THE CONDUCTOR IN THE COMPRESSION END.
 - ALL CONNECTOR LUGS MUST BE PROPERLY SEALED FROM WEATHER WITH HEAT SHRINK.
 - ALL CONNECTOR LUGS MUST BE ATTACHED USING 3/8" HARDWARE X 2 PER EACH LUG AND IN THE FOLLOWING MANNER:
 - FLAT WASHER ON THE BACKSIDE OF THE LUG
 - BOLT THRU THE LUG HOLE FACING OUTWARD.
 - FLAT WASHER ON THE FRONT SIDE OF THE LUG.
 - LOCK WASHER ON THE FRONT SIDE OF THE FLAT WASHER
 - NUT ON THE BOLT, TURNED TO "THREE THREADS SHOWING AT MAXIMUM TORQUE"
 - ALL NUTS ON CONNECTOR BOLTS MUST BE TIGHTENED SO THAT THE LOCK WASHERS ARE COMPLETELY COMPRESSED.
 - NO MECHANICAL CONNECTIONS ARE ACCEPTABLE EXCEPT IN THE EVENT OF MECHANICAL FITTINGS BEING AN INTEGRAL PART OF THE PRODUCT FROM THE FACTORY. IE: CHARLES CABINET # 6 GROUND LUGS ON EACH SIDE OF THE CABINET.
 - EXCESS WELDS ON CADWELDS MUST BE GROUND OFF TO A SAFE TAPER.
 - ALL EXPOSED METALLIC SURFACES MUST BE SPRAYED WITH A PROTECTIVE COATING SUCH AS ZINC-IT.
 - ALL FITTINGS EXPOSED TO ENVIRONMENT MUST BE SEALED WITH SHRINK WRAP.
- EXPOSED "SHINERS" CONDUCTORS ARE PROHIBITED IF IN EXCESS OF 1/16TH OF AN INCH.

PART 3 - TESTING AND DOCUMENTATION

3.1 TESTING

- 5 OHMS TO GROUND IS REQUIRED FOR ACCEPTANCE. IF 5 OHMS CANNOT BE MET WITH ABOVE REQUIREMENTS, ADDITIONAL GROUND RODS WILL BE ADDED TO THE FIELD UNTIL 5 OHMS IS ACHIEVED.

3.2 DOCUMENTATION

- PHOTOS OF THE TESTS ARE REQUIRED AS WELL AS TEST RESULTS IN FORMAL DOCUMENT FORMAT. SUBMIT RESULT OF TEST TO CC CONSTRUCTION MANAGER PRIOR TO FINAL WALKTHROUGH. SUBMIT ALL PHOTOS AND TESTS WITH CLOSEOUT PACKAGE PER SECTION 017700 - CLOSEOUT PROCEDURES AND REQUIRED DOCUMENTS

ONE-LINE DIAGRAM SCALE: NTS 4

GROUNDING SPECIFICATIONS SCALE: NTS 12



CROWN CASTLE
CROWN CASTLE
ONE PARK PLACE, STE. 300
DUBLIN, CA 94568

RECORD DRAWINGS ISSUE DATE:
09/18/2023



PREPARED BY:



3875 EMBASSY PARKWAY, SUITE 280
AKRON, OH 44333
PHONE: (216) 505-7775
WWW.KIMLEY-HORN.COM

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535 CLARK DR
SAN MATEO, CA 94402

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KHCL-46961

IN HOUSE

DRAWN BY: EJS
CHECKED BY: TDR

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

D1.2

PAGE

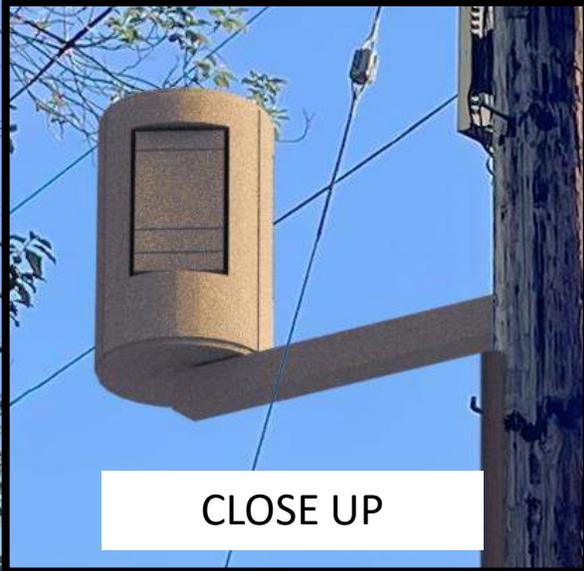
6 OF 7

PLOT SCALE: 1:1 @ 24"x36", 1:2 @ 11"x17"

Photosimulations



EXISTING VIEW



CLOSE UP

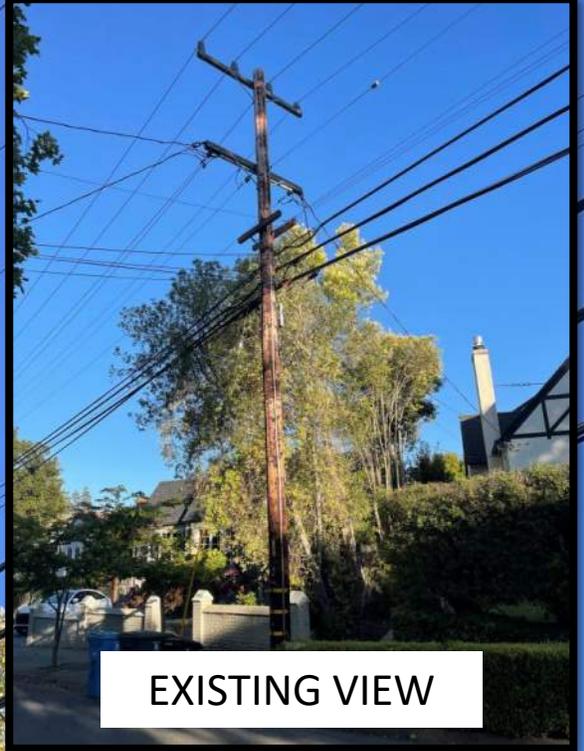
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CASTLE**

CA_SF_SANMATEO_210M2

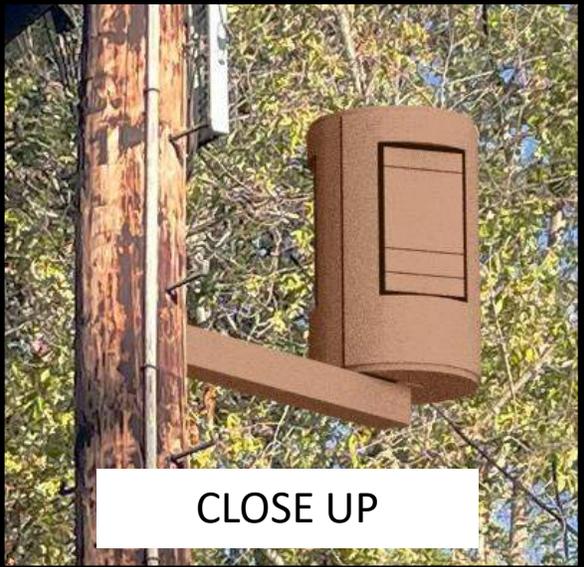
535 CLARK DR
SAN MATEO, CA 94402

PHOTO SIMULATION

View 1



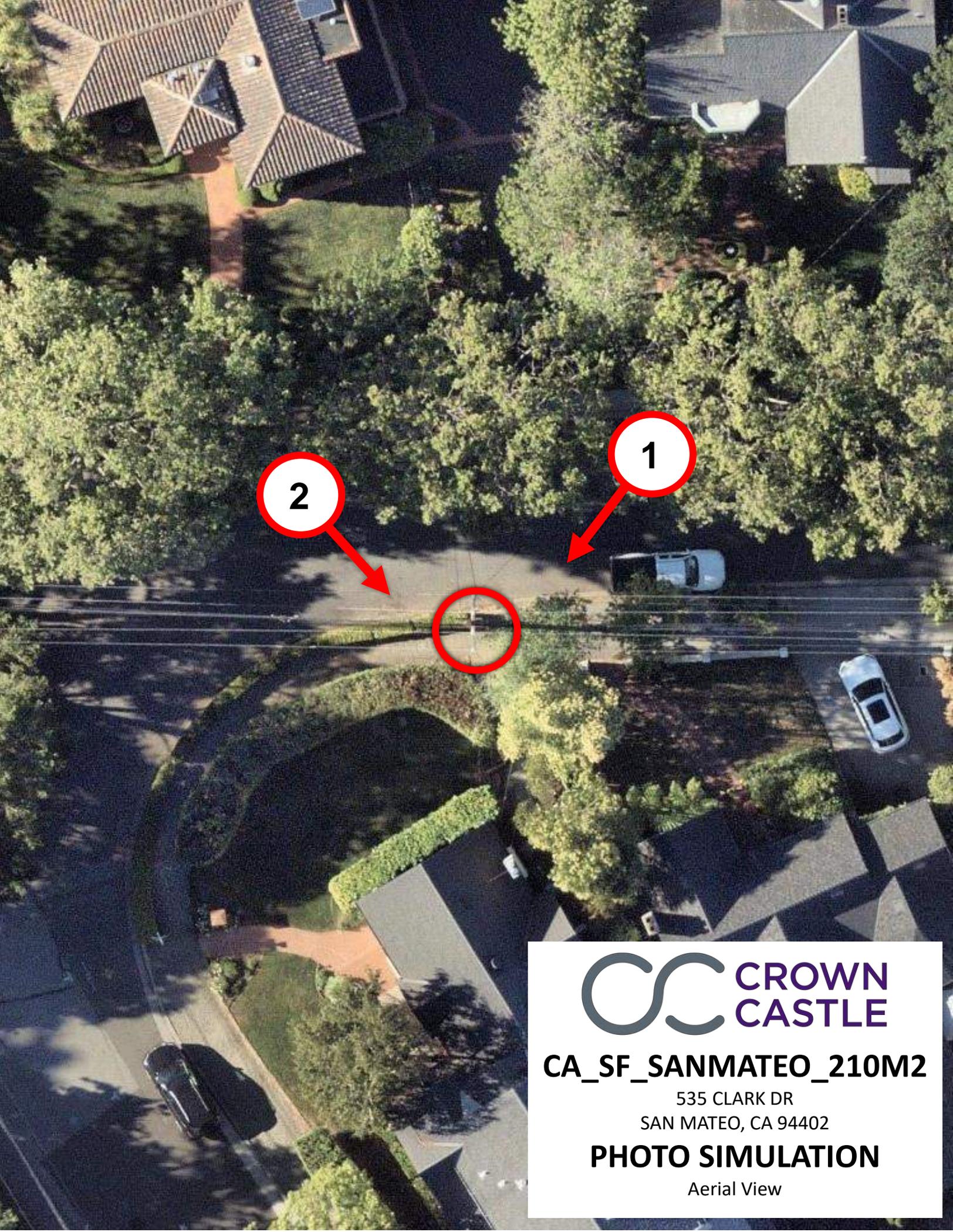
EXISTING VIEW



CLOSE UP

 **CROWN
CASTLE**

CA_SF_SANMATEO_210M2
535 CLARK DR
SAN MATEO, CA 94402
PHOTO SIMULATION
View 2



2

1



**CROWN
CASTLE**

CA_SF_SANMATEO_210M2

535 CLARK DR
SAN MATEO, CA 94402

PHOTO SIMULATION

Aerial View

Notification Affidavits



DECLARATION OF SERVICE BY MAIL

COMPANY NAME: KIMLEY-HORN
CUSTOMER NAME: TAYLOR BLANFORD
COMPANY ADDRESS: 1300 CLAY ST, STE 325, OAKLAND, CA 94612
SITE: SAN MATEO SITE 210M2
SITE ADDRESS: Near 535 CLARK DR, San Mateo, CA 94402

DECLARATION:

I, Sean Wilson, Of, Title Pro Information Systems, do hereby declare that on, OCTOBER 19TH, 2023, I served by mail upon each OCCUPANT & OWNER WITHIN THE MAILING LIST PROVIDED BY THE CLIENT, of the above-designated premises/subject property area, by depositing in the United States Mail, with postage fully prepaid, copy of the **Application Submitted for Wireless Permit**, a copy of which is attached hereto, giving the name(s) of the notice giver, site address of the subject property where the business is to be conducted, addressed to the Owner AND/OR Occupant for each of the following addresses: (see attached sheet(s)). (Note: Depending on the noticing requirements, we may have removed Duplicate Property Owners, Owner/Occupants from applicable address lists to prevent multiple notification.)

I declare under the penalty of perjury that the foregoing is true and correct.

Executed at San Diego, California, this 19TH, day of OCTOBER, 2023.



Signature

Application Submitted for Wireless Permit

October 10, 2023.

Applicant: Crown Castle
Taylor Blanford – Permitting Agent
1300 Clay Street, Suite 325, Oakland, CA 94612
Taylor.Blanford@kimley-horn.com
(510) 210-3221
CC: northerncaliforniapubliccomments@crowncastle.com
(925) 701-7210

Dear Property Owner or Resident:

Crown Castle has submitted a wireless permit application to the City of San Mateo Public Works Department for a small wireless facility to be located on an existing utility pole in the public right-of-way at the location below.

Location: Near 535 CLARK DR, San Mateo, CA 94402
Pole ID: 110072203

A “small wireless facility” is a low-powered, compact device used to provide wireless cellular service. The application is currently under review by the Department of Public Works and a decision has not been made. San Mateo Municipal Code (SMMC) requires applicants to send notification to all property owners and residents within 500 feet of the proposed project site after submitting an application to the City for review.

Crown Castle will be the owner and operator of the proposed facility, but Verizon, the carrier customer, will be using this specific facility to increase the coverage and capacity for their wireless services. The location was identified as the least intrusive location that meets specific wireless network coverage needs.

Location of Proposed Facility

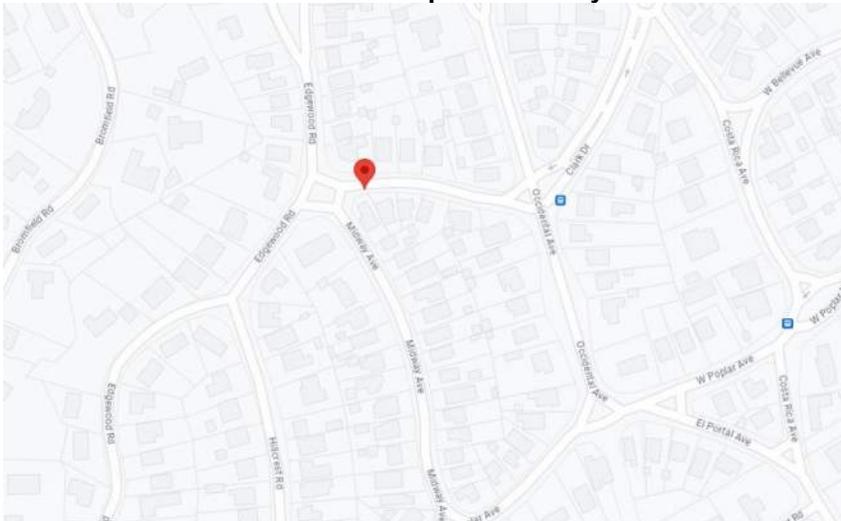
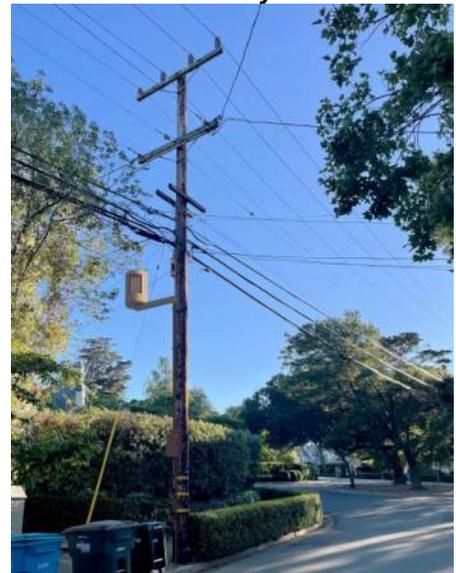


Photo Simulation of Proposed Facility



Pursuant to US Code Title 47 section 332(c)(7), local governments may not regulate the placement, construction, and modification of wireless service facilities to the extent that such facilities comply with the Federal Communications Commission's (FCC) regulations concerning Radio Frequency (RF) emissions.



Crown Castle
One Park Place
Suite 300
Dublin, CA 94568

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<https://www.cityofsanmateo.org/3865/Small-Cell-Infrastructure>

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City of San Mateo Contact

Public Works – Permitting Division
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If the application is approved by the City of San Mateo, installation is anticipated to begin Winter 2023.

PROPERTY APN	RECIPIENT	ADDRESS	CITY	STATE	ZIP CODE
31061050	THE OCCUPANT	421 OCCIDENTAL AVE	SAN MATEO	CA	94402-1131
31061040	THE OCCUPANT	425 OCCIDENTAL AVE	SAN MATEO	CA	94402-1131
32051090	THE OCCUPANT	426 CLARK DR	SAN MATEO	CA	94402-1009
31061180	THE OCCUPANT	428 MIDWAY AVE	SAN MATEO	CA	94402-1130
31061190	THE OCCUPANT	432 MIDWAY AVE	SAN MATEO	CA	94402-1130
32052140	THE OCCUPANT	432 OCCIDENTAL AVE	SAN MATEO	CA	94402-1132
31062060	THE OCCUPANT	433 MIDWAY AVE	SAN MATEO	CA	94402-1129
31061030	THE OCCUPANT	435 OCCIDENTAL AVE	SAN MATEO	CA	94402-1131
32052150	THE OCCUPANT	437 CLARK DR	SAN MATEO	CA	94402-1008
32052150	THE OCCUPANT	437 CLARK DR APT A	SAN MATEO	CA	94402-1008
31061200	THE OCCUPANT	438 MIDWAY AVE	SAN MATEO	CA	94402-1130
31061200	THE OCCUPANT	438 MIDWAY AVE UNIT B	SAN MATEO	CA	94402-1130
31062050	THE OCCUPANT	439 MIDWAY AVE	SAN MATEO	CA	94402-1129
31061020	THE OCCUPANT	439 OCCIDENTAL AVE	SAN MATEO	CA	94402-1131
31062260	THE OCCUPANT	442 HILLCREST RD	SAN MATEO	CA	94402-1125
31061010	THE OCCUPANT	443 OCCIDENTAL AVE	SAN MATEO	CA	94402-1131
31062040	THE OCCUPANT	445 MIDWAY AVE	SAN MATEO	CA	94402-1129
31062030	THE OCCUPANT	449 MIDWAY AVE	SAN MATEO	CA	94402-1129
31061210	THE OCCUPANT	450 MIDWAY AVE	SAN MATEO	CA	94402-1130
31062270	THE OCCUPANT	452 HILLCREST RD	SAN MATEO	CA	94402-1125
31062280	THE OCCUPANT	454 HILLCREST RD	SAN MATEO	CA	94402-1125
31061220	THE OCCUPANT	454 MIDWAY AVE	SAN MATEO	CA	94402-1130
31062290	THE OCCUPANT	456 HILLCREST RD	SAN MATEO	CA	94402-1125
31061230	THE OCCUPANT	460 MIDWAY AVE	SAN MATEO	CA	94402-1130
31061240	THE OCCUPANT	464 MIDWAY AVE	SAN MATEO	CA	94402-1130
31061250	THE OCCUPANT	468 MIDWAY AVE	SAN MATEO	CA	94402-1130
31062020	THE OCCUPANT	469 MIDWAY AVE	SAN MATEO	CA	94402-1129
31081010	THE OCCUPANT	488 EDGEWOOD RD	SAN MATEO	CA	94402-1163
31052250	THE OCCUPANT	493 EDGEWOOD RD	SAN MATEO	CA	94402-1117
31051110	THE OCCUPANT	500 CLARK DR	SAN MATEO	CA	94402-1045
32051100	THE OCCUPANT	500 OCCIDENTAL AVE	SAN MATEO	CA	94402-1053
31052260	THE OCCUPANT	501 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31051100	THE OCCUPANT	505 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31061300	THE OCCUPANT	509 CLARK DR	SAN MATEO	CA	94402-1044
31051120	THE OCCUPANT	512 CLARK DR	SAN MATEO	CA	94402-1045
31061290	THE OCCUPANT	515 CLARK DR	SAN MATEO	CA	94402-1044
31051090	THE OCCUPANT	515 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31051130	THE OCCUPANT	516 CLARK DR	SAN MATEO	CA	94402-1045
31051140	THE OCCUPANT	520 CLARK DR	SAN MATEO	CA	94402-1045
32051110	THE OCCUPANT	520 OCCIDENTAL AVE	SAN MATEO	CA	94402-1053
31061280	THE OCCUPANT	521 CLARK DR	SAN MATEO	CA	94402-1044
31051080	THE OCCUPANT	523 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31061270	THE OCCUPANT	525 CLARK DR	SAN MATEO	CA	94402-1044
31052270	THE OCCUPANT	525 EDGEWOOD RD	SAN MATEO	CA	94402-1046
32051120	THE OCCUPANT	526 OCCIDENTAL AVE	SAN MATEO	CA	94402-1053
31051150	THE OCCUPANT	528 CLARK DR	SAN MATEO	CA	94402-1045
31062300	THE OCCUPANT	528 EDGEWOOD RD	SAN MATEO	CA	94402-1047
31051220	THE OCCUPANT	529 WARREN RD	SAN MATEO	CA	94402-1060
31051070	THE OCCUPANT	531 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31051210	THE OCCUPANT	531 WARREN RD	SAN MATEO	CA	94402-1060
31051200	THE OCCUPANT	533 WARREN RD	SAN MATEO	CA	94402-1060

31061260	THE OCCUPANT	535 CLARK DR	SAN MATEO	CA	94402-1044
31051060	THE OCCUPANT	537 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31052100	THE OCCUPANT	539 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31062010	THE OCCUPANT	540 EDGEWOOD RD	SAN MATEO	CA	94402-1063
31051050	THE OCCUPANT	547 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31052090	THE OCCUPANT	549 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31051160	THE OCCUPANT	550 EDGEWOOD RD	SAN MATEO	CA	94402-1063
31051170	THE OCCUPANT	554 EDGEWOOD RD	SAN MATEO	CA	94402-1063
31052080	THE OCCUPANT	555 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31051040	THE OCCUPANT	555 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31052070	THE OCCUPANT	565 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31051180	THE OCCUPANT	570 EDGEWOOD RD	SAN MATEO	CA	94402-1063
31052060	THE OCCUPANT	575 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31051190	THE OCCUPANT	580 EDGEWOOD RD	SAN MATEO	CA	94402-1063
31052230	THE OCCUPANT	585 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31052240	THE OCCUPANT	635 EDGEWOOD RD	SAN MATEO	CA	94402-1048
31052150	THE OCCUPANT	735 BROMFIELD RD	HILLSBOROUGH	CA	94010-6619
31052130	THE OCCUPANT	745 BROMFIELD RD	HILLSBOROUGH	CA	94010-6619
31052120	THE OCCUPANT	747 BROMFIELD RD	HILLSBOROUGH	CA	94010-6619
31062290	ABUSHARKH JULIE	456 HILLCREST RD	SAN MATEO	CA	94402-1125
31081010	BARULICH AARON R	488 EDGEWOOD RD	SAN MATEO	CA	94402-1163
31051140	BIANCHI ROLAND R & JUDY R TRS	520 CLARK DR	SAN MATEO	CA	94402-1045
31061180	BRUNI RICHARD D TRS	1472 BERNAL AVE	BURLINGAME	CA	94010-5560
31051190	BRYANT LAURA	580 EDGEWOOD RD	SAN MATEO	CA	94402-1063
31061200	CALLCOTT W HARDY TR	438 MIDWAY AVE	SAN MATEO	CA	94402-1130
32051090	COHN MATTHEW PAUL TR	426 CLARK DR	SAN MATEO	CA	94402-1009
31061250	CONVIRS SUSAN L TR	PO BOX 117760	BURLINGAME	CA	94011-7760
31062020	DE LUCA STEVEN	469 MIDWAY AVE	SAN MATEO	CA	94402-1129
31061260	DEASY DAVID J	535 CLARK DR	SAN MATEO	CA	94402-1044
31051210	DEMERA GARY SCOTT	531 WARREN RD	SAN MATEO	CA	94401
31051060	DITZLER TIMOTHY M TR	537 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
32051100	ETZBACH DONALD F TR	500 OCCIDENTAL AVE	SAN MATEO	CA	94402-1053
31052100	EVANS DAVID A	539 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31052080	FERRARI H DANIEL	555 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31052060	FIGUEROA ENRIQUE	575 EDGEWOOD ROAD	SAN MATEO	CA	94402-1046
31051110	FORBES DANIEL M	500 CLARK DR	SAN MATEO	CA	94402-1045
31061010	FUCILLA ROBERT LOUIS TR	443 OCCIDENTAL AVENUE	SAN MATEO	CA	94402-1131
31052070	GALLETTI MARCHENRI TR	617 CRESCENT AVE	SAN MATEO	CA	94402-1017
31051090	GOLD DARREN J	515 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31062300	GRAF JAMES TR	528 EDGEWOOD RD	SAN MATEO	CA	94402-1047
31062260	JONSSON STANLEY C & Y M TRS	442 HILLCREST RD	SAN MATEO	CA	94402-1125
31061050	KARIM TRUST	421 OCCIDENTAL AVE	SAN MATEO	CA	94402-1131
31062010	KLETTER JASON TR	540 EDGEWOOD RD	SAN MATEO	CA	94402-1063
31051130	KRISHNAN NATHAN V TR	516 CLARK DR	SAN MATEO	CA	94402-1045
31051080	KRUMINS ALEKS	523 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31061190	LEWIS DORIAN G TR	432 MIDWAY AVE	SAN MATEO	CA	94402-1130
31061290	LI LAURENCE TR	515 CLARK DR	SAN MATEO	CA	94402-1044
32052150	LINDERMAN ANDREE H TR ET AL	437 A CLARK DR	SAN MATEO	CA	94402-1008
31061300	LITFIN PATRICIA A	509 CLARK DR	SAN MATEO	CA	94402-1044
31051120	MA SAMMY SHUN CHOW	512 CLARK DRIVE	SAN MATEO	CA	94402-1045
31051050	MACY BRYANT KENT TR	547 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31062270	MAHAFFEY KENNETH L	452 HILLCREST RD	SAN MATEO	CA	94402-1125

32051110	MANDEL MARK R TR	520 OCCIDENTAL AVE	SAN MATEO	CA	94402-1053
31062040	MARKSON MICHAEL E TR	445 MIDWAY AVE	SAN MATEO	CA	94402-1129
31061270	NEELEY KAREN M TR	525 CLARK DR	SAN MATEO	CA	94402-1044
31061040	NESSIER STEPHEN J TR	425 OCCIDENTAL AVE	SAN MATEO	CA	94402-1131
31061210	POTOMAK LLC	435 OCCIDENTAL AVE	SAN MATEO	CA	94402-1131
31051180	PREZEAU RODNEY PHILIP TR	570 EDGEWOOD RD	SAN MATEO	CA	94402-1063
31051150	PRITCHARD DAVID W TR	528 CLARK DR	SAN MATEO	CA	94402-1045
31062060	REGAN FRANK J TR	433 MIDWAY AVE	SAN MATEO	CA	94402-1129
31062030	REHDER KARIN TR	449 MIDWAY AVE	SAN MATEO	CA	94402-1129
31061280	ROMANO SAMUEL TR	116 ROLPH PK DR	CROCKETT	CA	94525-1421
31061230	SAN FELIPE KEITH B TR	460 MIDWAY AVE	SAN MATEO	CA	94402-1130
31051040	SCIGLIANO ROMERO & KAREN	555 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31052270	SEKELJ DARIO TR	525 EDGEWOOD RD	SAN MATEO	CA	94402-1046
32052140	SEMIEN KEVIN	432 OCCIDENTAL AVE	SAN MATEO	CA	94402-1132
31052090	SEVIER CONSTANCE M TR	549 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31062050	SILVA ROBERT P TR	439 MIDWAY AVE	SAN MATEO	CA	94402-1129
31051220	SOBOLIK DOUGLAS E TR	529 WARREN RD	SAN MATEO	CA	94402-1060
31061020	STANGHELLINI JOHN F TR	439 OCCIDENTAL AVE	SAN MATEO	CA	94402-1131
31051070	STAR RONALD HARLAN TR	531 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31061030	STEFANAC NIKOLA TR	435 OCCIDENTAL AVE	SAN MATEO	CA	94402-1131
31052260	STRAMBI MICHAEL W TR	501 EDGEWOOD RD	SAN MATEO	CA	94402-1046
31051170	STRNAD ALOIS J & E E TRS	554 EDGEWOOD RD	SAN MATEO	CA	94402-1063
31052230	SUMMERS TIMOTHY J TR	585 EDGEWOOD RD	SAN MATEO	CA	94402-1046
32051120	TAGUCHI MARK	526 OCCIDENTAL AVE	SAN MATEO	CA	94402-1053
31052250	TATEOSIAN DAVID CHARLES TR	493 EDGEWOOD ROAD	SAN MATEO	CA	94402-1117
31062280	TURK STEPHEN P	454 HILLCREST RD	SAN MATEO	CA	94402-1125
31051160	VOLK JOHN D	550 EDGEWOOD RD	SAN MATEO	CA	94402-1063
31061240	WADHAMS ANDREW W	464 MIDWAY AVE	SAN MATEO	CA	94402-1130
31061220	WHITEHEAD LAURENCE D TR	454 MIDWAY AVE	SAN MATEO	CA	94402-1130
31051200	XU SONYA TR	533 WARREN RD	SAN MATEO	CA	94402-1060
31051100	YU MANFRED TR	505 OCCIDENTAL AVE	SAN MATEO	CA	94402-1052
31052240	ZUBATY AARON TR	1145 CORTEZ AVE	BURLINGAME	CA	94010-4932



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Location of Proposed Facility



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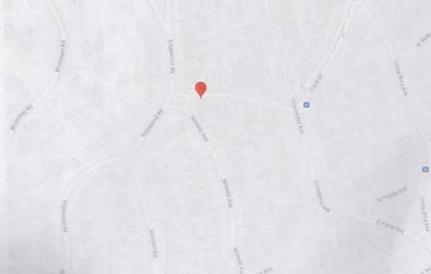


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(650) 622-7300

A Notice of Decision will be posted on the website when the Director of Public Works approves or denies an application. If you are interested in receiving email notifications when decisions are posted online, sign up for email alerts on Decision notices or permit approvals at our website. The specific list you will want to sign up for is "Small Cell Infrastructure Updates."

Members of the public interested in receiving information on application decisions should sign up for notifications on the Small Cell Infrastructure website, as no additional noticing will be mailed.

Sign up for alerts here -> <https://www.cityofsanmateo.org/4707/Email-Alerts-News>

Once a decision has been posted, residents or property owners within 500 feet of the project site may file an appeal in accordance with SMMC Section 17.10.070(g). The Notice of Decision will include information on how to file an appeal and appeal applications are available on the small cell infrastructure website.

Appeals must be filed within five (5) calendar days following the Director's decision. The appeal shall be scheduled for hearing on the agenda for the next regular or special meeting of the Sustainability and Infrastructure Commission, or otherwise within a time frame needed to comply with all applicable state or federal laws. The FCC does not allow appeals when based solely on the environmental effects from radio frequency emissions that are compliant with applicable FCC regulations and guidelines.

If the application is approved by the City of San Mateo, installation is anticipated to begin Winter 2023.

525



Crown Castle
One Park Place
Suite 300
Dublin, CA 94568

Application Submitted for Wireless Permit

October 10, 2023.
Applicant: Crown Castle
Taylor Blanford – Permitting Agent
1300 Clay Street, Suite 325, Oakland, CA 94612
Taylor.Blanford@kimley-horn.com
(510) 210-3221
CC: northerncaliforniapubliccomments@crowncastle.com
(925) 701-7210

Dear Property Owner or Resident:

Crown Castle has submitted a wireless permit application to the City of San Mateo Public Works Department for a small wireless facility to be located on an existing utility pole in the public right-of-way at the location below.
Location: Near 535 CLARK DR, San Mateo, CA 94402
Pole ID: 110072203

A "small wireless facility" is a low-powered, compact device used to provide wireless cellular service. The application is currently under review by the Department of Public Works and a decision has not been made. San Mateo Municipal Code (SMMC) requires applicants to send notification to all property owners and residents within 500 feet of the proposed project site after submitting an application to the City for review.
Crown Castle will be the owner and operator of the proposed facility, but Verizon, the carrier customer, will be using this specific facility to increase the coverage and capacity for their wireless services. The location was identified as the least intrusive location that meets specific wireless network coverage needs.



Pursuant to US Code Title 47 section 332(c)(7), local governments may not regulate the placement, construction, and modification of wireless service facilities to the extent that such facilities comply with the Federal Communications Commission's (FCC) regulations concerning Radio Frequency (RF) emissions.



Crown Castle
One Park Place
Suite 300
Dublin, CA 94568

Concerns related to the safety of RF emissions should be directed to the FCC Office of Engineering and Technology located at 445 12th St SW, Washington, DC, 20554. The FCC may also be reached at 1 (888) CALL-FCC.

FCC rules do allow the City to adopt aesthetic design standards of their facilities. San Mateo has adopted municipal code (SMMC 17.10) and comprehensive design standards (2021 Design Standards, Application Requirements, Conditions of Approval for Wireless Facilities in the Public Right-of-Way) that establish a process and application requirements for wireless permits. More information on these requirements can be found on the City's Small Cell Infrastructure website.

<https://www.cityofsanmateo.org/3865/Small-Cell-Infrastructure>

THIS IS A NOTICE THAT AN APPLICATION WAS SUBMITTED

Interested parties may submit comments regarding the project by contacting the City. Comments may be submitted within thirty (30) calendar days of this notice, October 10, 2023. For information on the equipment or technical aspects of this installation, contact the Applicant listed below.

Applicant Contact
Crown Castle
Taylor Blanford – Permitting Agent
1300 Clay Street, Suite 325, Oakland, CA 94612
Taylor.Blanford@kimley-horn.com
(510) 210-3221

City of San Mateo Contact
Public Works – Permitting Division
330 W. 20th Avenue, San Mateo, CA 94403
pwenroechment@cityofsanmateo.org
(650) 522-7300

A Notice of Decision will be posted on the website when the Director of Public Works approves or denies an application. If you are interested in receiving email notifications when decisions are posted online, sign up for email alerts on Decision notices or permit approvals at our website. The specific list you will want to sign up for is "Small Cell Infrastructure Updates."

Members of the public interested in receiving information on application decisions should sign up for notifications on the Small Cell Infrastructure website, as no additional noticing will be mailed.

Sign up for alerts here -> <https://www.cityofsanmateo.org/44707/Email-Alerts-News>

Once a decision has been posted, residents or property owners within 500 feet of the project site may file an appeal in accordance with SMMC Section 17.10.070(g). The Notice of Decision will include information on how to file an appeal and appeal applications are available on the small cell infrastructure website.

Appeals must be filed within five (5) calendar days following the Director's decision. The appeal shall be scheduled for hearing on the agenda for the next regular or special meeting of the Sustainability and Infrastructure Commission, or otherwise within a time frame needed to comply with all applicable state or federal laws. The FCC does not allow appeals when based solely on the environmental effects from radio frequency emissions that are compliant with applicable FCC regulations and guidelines.

If the application is approved by the City of San Mateo, installation is anticipated to begin Winter 2023.

STAPLES

STAPLES

Prior Permits and Approvals



One Verizon Way
Basking Ridge, NJ 07920

VERIZON COMMUNICATIONS INC.

ASSISTANT SECRETARY'S CERTIFICATE

I, Brandon N. Egren, do hereby certify that I am a duly elected, qualified and acting Assistant Secretary of Verizon Communications Inc., a Delaware corporation ("Verizon"), and as such I am authorized to execute this certificate. In such capacity, I further certify that:

Verizon Wireless Network Procurement LP ("VZW Network") is a Delaware limited partnership and is indirectly wholly owned by Verizon.

Cellco Partnership ("Cellco") is a Delaware general partnership and is indirectly wholly owned by Verizon.

Straight Path Spectrum, LLC ("Straight Path") is a Delaware limited liability company and is directly wholly owned by Verizon.

GTE Mobilnet of California Limited Partnership ("GTEM of California") is a California limited partnership and is indirectly wholly owned by Verizon.

VZW Network, Cellco, Straight Path and GTEM of California are affiliates of Verizon.

Dated: September 21, 2022

Brandon N. Egren
Assistant Secretary

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.

Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: LICENSING MANAGER
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WRAZ876), File Number (0008225993), and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0012576435

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

The authority granted herein is subject to any future applicable international frequency coordination agreements between the administrations of the United State and Canada.

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.

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).

Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRAZ876

File Number: 0008225993

Print Date: 07-25-2018

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.

**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: LICENSING MANAGER
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRAZ877	File Number 0008225878
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 07-24-2018	Effective Date 07-24-2018	Expiration Date 08-10-2028	Print Date 07-25-2018
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Market Number BTA404	Channel Block L2	Sub-Market Designator 3
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Market Name San Francisco-Oakland-San Jose
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1st Build-out Date 06-01-2024	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
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Waivers/Conditions:

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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Conditions:

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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: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRAZ877

File Number: 0008225878

Print Date: 07-25-2018

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy



Crown Castle
One Park Place
Suite 300
Dublin, CA 94568

06/21/2022

City of San Mateo
Tracy Scramaglia
Public Works
330 West 20th Ave
San Mateo, CA 94403

RE: FAA Filing for Wireless Facilities

Dear City of San Mateo Public Works,

Crown Castle's proposed Small Wireless Communication Facilities do not require the completion and filing of FAA Form 7460 due to this project not meeting the requirements of the Federal Aviation Code Title 14, Chapter 1, Subchapter E, Part 77. Crown Castle's proposed Small Wireless Communication Facilities do not meet the FAA requirements for facilities that must file with the FAA which is listed below.

§ 77.9 — Any person/organization who intends to sponsor any of the following construction or alterations must notify the Administrator of the FAA:

- Any construction or alteration exceeding 200 ft above ground level
- Any construction or alteration
 - within 20,000 ft of a public use or military airport which exceeds a 100:1 surface from any point on the runway of each airport with at least one runway more than 3,200 ft.
 - within 10,000 ft of a public use or military airport which exceeds a 50:1 surface from any point on the runway of each airport with its longest runway no more than 3,200 ft.
 - within 5,000 ft of a public use heliport which exceeds a 25:1 surface
 - Any highway, railroad or other traverse way whose prescribed adjusted height would exceed that above noted standards
 - When requested by the FAA
 - Any construction or alteration located on a public use airport or heliport regardless of height or location

Furthermore, the FAA Code states that one does not need to file notice for construction or alteration of any object that will be shielded by existing structures of a permanent and substantial nature or by natural terrain or topographic features of equal or greater height and will be located in the congested area of a city, town, or settlement where the shielded structure will not adversely affect safety in air navigation. All of Crown Castle's proposed locations meet this requirement.

Sincerely,

Jason Camarena
Sr. Network Permitting Relations Specialist
1 Park Pl, Suite 300
Dublin, CA 94568

The CPCN was granted in the name of NTC Network, LLC (“NTC”) by the California Public Utilities Commission’s (“CPUC”) Decision 99-06-083 on June 24, 1999 (Order starts on page 11 of the Decision PDF) and assigned the Utility Number U-6190-C.

NTC merged into Freedom Telecommunications LLC (“Freedom” - Utility Number U-7110-C) by way of a pro forma consolidation. NTC’s Utility Number was transferred to Freedom as the surviving entity. The CPUC accepted NTC’s Advice Letter No. 6 dated May 12, 2014 and Freedom’s Advice Letter No. 4 dated May 12, 2014.

Freedom was merged into Crown Castle Fiber LLC (“Crown Castle Fiber”) with Freedom’s CPCN and Utility Number (U-6910-U) being transferred to Crown Castle Fiber – Freedom’s Advice Letter No. 13 accepted on November 24, 2018

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



Freedom Telecommunications, Llc
IEC (Corp ID 6190)
Status of Advice Letter 13
As of November 27, 2018

Subject: Pro Forma Consolidation including assumption of CPCN and Utility Number

Division Assigned: Telecommunications

Date Filed: 10-26-2018

Date to Calendar: 10-31-2018

Authorizing Documents: None

Disposition:	Accepted
Effective Date:	11-24-2018

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

415-703-1565

TD_PAL_COORDINATOR@cpuc.ca.gov

AL Certificate Contact Information:

Tamar Finn

202-739-3000

tamar.finn@morganlewis.com

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



To: Telecommunications Carrier Filing Advice Letter

From: Telecommunications Division PAL Coordinator

Subject: Your Advice Letter Filing

The Telecommunications Division of the California Public Utilities Commission has processed your recent Advice Letter (AL) filing and is returning an AL status certificate for your records.

The AL status certificate indicates:

- Advice Letter Number
- Name of Filer
- CPUC Corporate ID number of Filer
- Subject of Filing
- Date Filed
- Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)
- Effective Date of Filing
- Other Miscellaneous Information (e.g., Resolution, if applicable, etc.)

The Telecommunications Division has made no changes to your copy of the Advice Letter Filing; please review your Advice Letter Filing with the information contained in the AL status certificate, and update your Advice Letter and tariff records accordingly.

All inquiries to the California Public Utilities Commission on the status of your Advice Letter Filing will be answered by Telecommunications Division staff based on the information contained in the Telecommunications Division's PAL database from which the AL status certificate is generated. If you have any questions on this matter please contact the:

Telecommunications Division PAL Coordinator at **(415) 703-1565**, or by e-mail to ***td_pal_coordinator@cpuc.ca.gov***

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



Ntc Network, Inc
IEC (Corp ID 6190)
Status of Advice Letter 6
As of August 11, 2014

Subject: Pro Forma consolidation of NTC and Freedom Telecommunications, LLC (U-7110-C)

Division Assigned: Telecommunications

Date Filed: 05-13-2014

Date to Calendar: 05-16-2014

Authorizing Documents: None

Disposition:	Accepted
Effective Date:	06-12-2014

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

415-703-1565

TD_PAL_COORDINATOR@cpuc.ca.gov

AL Certificate Contact Information:

Douglas Orvis

202-373-6000

douglas.orvis@bingham.com

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



To: Telecommunications Carrier Filing Advice Letter

From: Telecommunications Division PAL Coordinator

Subject: Your Advice Letter Filing

The Telecommunications Division of the California Public Utilities Commission has processed your recent Advice Letter (AL) filing and is returning an AL status certificate for your records.

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Telecommunications Division PAL Coordinator at **(415) 703-1565**, or by e-mail to ***td_pal_coordinator@cpuc.ca.gov***

Filed By	Advice Letter Number	Tier	Date Filed	Subject	Protested	Date Closed	Effective Date	Days Open	Disposition
Freedom Telecommunications, Inc.	4	1	5/13/2014	Pro Forma Consolidation of Freedom and NTC Network, LLC (U-6190-C)	No	08/11/14	05/13/14	90	Accepted

Decision 99-06-083 June 24, 1999

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking on the Commission's Own Motion into Competition for Local Exchange Service.

Rulemaking 95-04-043 ✓
(Filed April 26, 1995)

FORMAL FILE COPY

Order Instituting Investigation on the Commission's Own Motion into Competition for Local Exchange Service.

Investigation 95-04-044
(Filed April 26, 1995)
(Petition Nos. 132, 133, 134,
135, 136, 137, 138, 139
140, and 142)

O P I N I O N

By this decision, we grant the petitions for certificates of public convenience and necessity (CPCN) to operate as facilities-based competitive local carriers (CLCs) and to offer resold local exchange services within the territories of Pacific Bell (Pacific), GTE California Incorporated (GTEC), Roseville Telephone Company (RTC), and Citizens Telephone Company (CTC), for those petitioners as set forth in Appendix B of this decision, subject to the terms and conditions included herein. We also grant petitioners' requests for intrastate interLocal Access and Transport Areas (interLATA) and intraLATA authority on a statewide basis as designated in Appendix B.

I. Background

We initially established rules for entry of facilities-based CLCs in Decision (D.) 95-07-054. Under those procedures, we processed a group of candidates that filed petitions for CPCNs by September 1, 1995, and granted authority effective January 1, 1996, for qualifying CLCs to provide facilities-based competitive local

exchange service in the territories of Pacific and GTEC. We authorized CLCs seeking to provide resale-based services to begin operations on March 1, 1996. We further advised prospective entrants that any filings from nonqualifying CLCs, and any filing for CLC operating authority made after September 1, 1995, would be treated as standard applications and processed in the normal course of the Commission's business.

By D.96-12-020, effective January 1, 1997, we instituted quarterly processing cycles for granting CPCN authority for facilities-based CLCs in order to streamline the approval process for these particular carriers. Since we had been processing the environmental impact review required under the California Environmental Quality Act (CEQA) on a consolidated basis for groups of qualifying facilities-based CLCs, we concluded in D.96-12-020 that it would be more efficient and consistent to process other aspects of the CLC filings on a consolidated basis, as well. Accordingly, we directed that any CLC filing on or after January 1, 1997, for facilities-based CPCN authority was to make its filing in the form of a petition to be docketed in Investigation (I.) 95-04-044 that would be processed quarterly on a consolidated basis. CLCs seeking only resale authority continued to file individual applications.

On September 24, 1997, we adopted D.97-09-115 in which we extended the coverage of our adopted rules for local exchange competition to include the service territories of California's two midsized local exchange carriers (MSLECs), RTC and CTC. In that decision, we also authorized candidates seeking CLC CPCN authority within the MSLECs' territories to immediately begin making filings following the applicable entry rules previously adopted in D.95-07-054 and subsequent decisions. Specifically, requests for CLC CPCN authority for facilities-based service were to be filed in the form of a petition docketed in I.95-04-044, while resellers have sought authority through applications. In

D.98-01-055, we approved the first group of petitions for facilities-based CPCNs to offer local exchange service within the MSLEC territories.

In this decision, we approve CPCNs for those facilities-based CLCs which filed petitions during the first quarter of 1999 and satisfied all applicable rules for certification as established in Rulemaking (R.) 95-04-043. The Petitioners identified in Appendix B will be authorized to begin offering service upon the filing of tariffs and compliance with the terms and conditions set forth in this order.

II. CEQA Review

We have reviewed the petitions for compliance with CEQA. CEQA requires the Commission to assess the potential environmental impact of a project in order that adverse effects are avoided, alternatives are investigated, and environmental quality is restored or enhanced to the fullest extent possible. To achieve this objective, Rule 17.1 of the Commission's Rules requires the proponent of any project subject to Commission approval to submit with the petition for approval of such project a Proponent's Environmental Assessment (PEA). The PEA is used by the Commission to focus on any impacts of the project which may be of concern, and prepare the Commission's Initial Study to determine whether the project needs a Negative Declaration or an Environmental Impact Report (EIR).

Based on its assessment of the facilities-based petitions and PEAs, the Commission staff prepared a Negative Declaration and Initial Study generally describing the facilities-based Petitioners' projects and their potential environmental effects. The Negative Declaration prepared by the Commission staff is considered a Mitigated Negative Declaration (MND). This means that, although the initial study identified potentially significant impacts, revisions

which mitigate the impacts to a less than significant level have been agreed to by the Petitioners. (Pub. Res. Code § 21080(c)(2).)

A. Results of the Negative Declaration

On April 29, 1999, the Negative Declaration and Initial Study were sent to various city and county planning agencies, as well as public libraries throughout the state for review and comment by May 28, 1999. The Commission staff prepared a public notice which announced the preparation of the draft negative declaration, the locations where it was available for review, and the deadline for written comments. The public notice was advertised in newspapers throughout the state. The draft Negative Declaration was also submitted to the Governor's Office of Planning and Research where it was circulated to affected state agencies for review and comment.

Public comments on the draft Negative Declaration were reviewed and answered, as necessary. The Commission staff then finalized the MND covering all facilities-based CLC petitions listed in Appendix B. The finalized MND includes a list of mitigation measures with which the CLCs must comply as a condition of their CPCN authority. The MND includes a Mitigation Monitoring Plan to ensure that the mitigation measures are followed and implemented as intended. A copy of the MND is attached to this decision as Appendix D. We hereby approve the MND as finalized by staff. Concurrently with our approval of the MND, we grant the request of the Petitioners in Appendix B for CPCN authority subject to the terms and conditions set forth in our order below.

B. Required Payment of CEQA Deposit

Commission Decision 97-04-046 stipulates that all petitioners for CLC authority must submit with their filing an initial payment of \$2000 to cover CEQA costs. The \$2000 payment is used to cover the Commission's costs for

preparing and publishing the Mitigated Negative Declaration for each qualifying petitioner, as required by CEQA law. As of the date of this order, the Commission has received payment of the required \$2000 deposit from each of the CLCs, as identified in Appendix B.

III. Review of CPCN Petitions

A. Overview

The CLC petitions have been reviewed for compliance with the certification-and-entry rules (Rules) adopted in Appendices A and B of D.95-07-054 and subsequent decisions in R.95-04-043/I.95-04-044. Consistent with our goal of promoting a competitive market as rapidly as possible, we are granting authority to all of the facilities-based CLCs that filed during the first quarter of 1999 and met the Rules. The Rules are intended to protect the public against unqualified or unscrupulous carriers, while also encouraging and easing the entry of CLC providers to promote the rapid growth of competition.

Petitioners had to demonstrate that they possessed the requisite managerial qualifications, technical competence, and financial resources to provide facilities-based local exchange service. Petitioners were also required to submit proposed tariffs which conform to the consumer protection rules set forth in Appendix B of D.95-07-054. In response to a notice of tariff deficiencies, the various petitioners submitted tariff corrections. Except for the outstanding deficiencies noted in Appendix C, the petitioners' proposed tariffs are found to be satisfactory with no deficiencies noted.

As prescribed in Rule 4.B.(1), prospective facilities-based CLCs must also show that they possess a minimum of \$100,000 in cash or cash-equivalent resources, as defined in the Rules. In order to demonstrate that they possess the requisite financial resources, petitioners submitted copies of recent financial

statements. Because the financial statements contain commercially sensitive information, the petitioners filed motions for limited protective orders to restrict the financial statements and related documents containing commercially sensitive information from public disclosure pursuant to General Order (GO) 66-C. We grant those motions as prescribed in our order below.

Based upon our review, we conclude that each of the facilities-based Petitioners identified in Appendix B, has satisfactorily complied with our certification requirements for entry, including the consumer protection rules set forth in D.95-07-054, subject to correcting any tariff deficiencies in Appendix C, payment of the required CEQA deposit, and satisfying the additional conditions set forth in the ordering paragraphs below. Accordingly, we grant these Petitioners authority to offer facilities-based and resold local exchange service within the territories of Pacific and GTEC and, where requested, within the CTC and RTC territories. We also grant the statewide inter- and intraLATA authority as requested.

Pursuant to D.97-09-115, CLC resale authority within the RTC and CTC territories was authorized to become effective on or after April 1, 1998. As we stated in D.97-09-115, until the time that tariffed wholesale discount rates are adopted for RTC and CTC, individual CLCs certificated to resell local service within the CTC/RTC territories may enter into negotiations with each of the MSLECs to seek agreement on an interim wholesale discount rate. Disputes over the terms of resale arrangements may be submitted to the Commission for arbitration pursuant to the provisions of Section 252(b)(1) of the Telecommunication Act of 1996 and Commission Resolution ALJ-174.

B. Motion of DSLnet

DSLnet Communications, LLC ("DSLnet"), attempted to file a petition (# 142) for CLC local exchange authority on March 31, 1999, with the intention of being included in the Commission's quarterly "batch" review of such petitions filed during the first quarter of 1999. However, DSLnet subsequently learned that, due to certain confusion surrounding whether DSLnet's Petition was complete for purposes of the Commission's review, the Commission did not technically accept DSLnet's petition until April 13, 1999. As a result, it is now too late for DSLnet's Petition to be included in the Commission's quarterly review process for such petitions filed during the first quarter of 1999, at least to the extent DSLnet seeks facilities-based authority.

Nonetheless, in order to allow DSLnet to initiate competitive telecommunications service in California as soon as possible, DSLnet filed a motion on May 4, 1999, asking the Commission to: (1) immediately consider the portion of DSLnet's Petition seeking authority to resell local exchange telecommunications services, and (2) consider the portion of DSLnet's Petition seeking facilities-based authority in the Commission's quarterly review process for Petitions filed during the second quarter of 1999.

No party has objected to the motion of DSLnet. We consider the request of DSLnet for consideration of the resale portion of its petition in the current quarterly review to be reasonable, under the circumstances and shall grant it.

Due to the timing requirements relating to the Mitigated Negative Declaration, DSLnet's request for facilities-based authority cannot be considered during the current quarter, but shall be deferred to the subsequent quarterly review period.

IV. Compliance With Section 311

In compliance with Pub. Util. Code Section 311 (g)(2), this is an uncontested matter in which the decision grants the relief requested. Accordingly, pursuant to Pub. Util. Code Section 311(g)(2), the otherwise applicable 30-day period for public review and comment is being waived.

Findings of Fact

1. Nine petitioners filed requests during the first quarter of 1999 seeking a CPCN to provide competitive local exchange services in the territories of various California incumbent local exchange carriers as set forth in Appendix B.

2. An additional petitioner, DSLnet attempted to file during the first quarter, but the filing was not actually docketed until April 13, 1999. DSLnet subsequently filed an uncontested motion seeking to have its request for CLC resale authority to be considered as part of the first quarterly group of CLCs.

3. No protests to the CLC petitioners have been filed.

4. A hearing is not required.

5. By prior Commission decisions, we authorized competition in providing local exchange telecommunications service within the service territories of Pacific, GTEC, RTC, and CTC for carriers meeting specified criteria.

6. The Petitioners listed in Appendix B have demonstrated that each of them has a minimum of \$100,000 in cash or cash equivalent reasonably liquid and readily available to meet its start-up expenses.

7. Petitioners' technical experience is demonstrated by supporting documentation which provides summary biographies of their key management personnel.

8. Except as noted in Appendix C, Petitioners have each submitted a complete draft of their initial tariff which complies with the requirements

established by the Commission, including prohibitions on unreasonable deposit requirements.

9. Commission D.97-04-046 stipulates that all petitioners for CLC authority must submit with their filing an initial payment of \$2,000 to cover the Commission's costs for preparing and publishing the Mitigated Negative Declaration pursuant to CEQA.

10. Each of the CLCs, as identified in Appendix B, has submitted the required \$2,000 CEQA deposit as of the date of this order.

11. By D.97-06-107, petitioners or applicants for CLC authority are exempt from Rule 18(b).

12. Exemption from the provisions of Pub. Util. Code §§ 816-830 has been granted to other nondominant carriers. (*See, e.g., D.86-10-007 and D.88-12-076.*)

13. The transfer or encumbrance of property of nondominant carriers has been exempted from the requirements of Pub. Util. Code § 851 whenever such transfer or encumbrance serves to secure debt. (*See D.85-11-044.*)

Conclusions of Law

1. Each of the Petitioners listed in Appendix B has the financial ability to provide the proposed services, and has made a reasonable showing of technical expertise in telecommunications.

2. Public convenience and necessity require the competitive local exchange services to be offered by Petitioners subject to the terms, conditions, and restrictions set forth below.

3. Each Petitioner is subject to:

- a. The current 0.0% surcharge applicable to all intrastate services except for those excluded by D.94-09-065, as modified by D.95-02-050, to fund the Universal Lifeline Telephone Service (Pub. Util. Code § 879; Resolution T-16245, December 3, 1998);

- b. The current 0.192% surcharge applicable to all intrastate services except for those excluded by D.94-09-065, as modified by D.95-02-050, to fund the California Relay Service and Communications Devices Fund (Pub. Util. Code § 2881; Resolution T-16234; D.98-12-073, , December 17, 1998);
 - c. The user fee provided in Pub. Util. Code §§ 431-435, which is 0.11% of gross intrastate revenue for the 1998-1999 fiscal year (Resolution M-4789);
 - d. The current surcharge applicable to all intrastate services except for those excluded by D.94-09-065, as modified by D.95-02-050, to fund the California High Cost Fund-A (Pub. Util. Code § 739.30; D.96-10-066, pp. 3-4, App. B, Rule 1.C; Resolution T-16242 at 0.0% for 1999, December 3, 1998);
 - e. The current 3.8% surcharge applicable to all intrastate services except for those excluded by D.94-09-065, as modified by D.95-02-050, to fund the California High Cost Fund-B (D.96-10-066, p. 191, App. B, Rule 6.F., Resolution T-16244, December 3, 1998); and,
 - f. The current 0.05% surcharge applicable to all intrastate services except for those excluded by D.94-09-065, as modified by D.95-02-050, to fund the California Teleconnect Fund (D.96-10-066, p. 88, App. B, Rule 8.G, Resolution T-16165; August 1, 1998).
4. Petitioners should be exempted from Rule 18(b).
 5. Petitioners should be exempted from Pub. Util. Code §§ 816-830.
 6. Petitioners should be exempted from Pub. Util. Code § 851 when the transfer or encumbrance serves to secure debt.
 7. Each of the Petitioners must agree to, and is required to, carry out any specific mitigation measures adopted in the Mitigated Negative Declaration (MND), attached as Appendix D, in compliance with CEQA.

8. With the incorporation of the specific mitigation measures in the final MND, the Petitioners' proposed projects will not have potentially significant adverse environmental impacts.

9. The Petitioners should be granted CPCNs subject to the terms, conditions, and restrictions set forth in the order below.

10. Any CLC which does not comply with our rules for local exchange competition adopted in R.95-04-043 shall be subject to sanctions including, but not limited to, revocation of its CLC certificate.

O R D E R

IT IS ORDERED that:

1. A certificate of public convenience and necessity (CPCN), shall be granted to each of the Petitioners listed in Appendix B (Petitioners) to permit each of them to operate as a facilities-based provider of competitive local exchange telecommunications services, as a reseller of competitive local exchange telecommunications services within the service territories as noted in Appendix B and, as a statewide nondominant interexchange carrier (NDIEC), as noted in Appendix B, contingent on compliance with the terms identified in Appendix B and in the remainder of this order.

2. Each Petitioner shall file a written acceptance of the certificate granted in this proceeding prior to commencing service.

3. a. The Petitioners are authorized to file with this Commission tariff schedules for the provision of competitive local exchange, intraLATA (Local Access Transport Area) toll and intrastate interLATA services, as applicable. The Petitioners may not offer these services until tariffs are on file, and until any applicable deficiencies as noted in Appendix C have been corrected. Petitioners'

initial filing shall be made in accordance with General Order (GO) 96-A, excluding Sections IV, V, and VI, and shall be effective not less than one day after approval by the Telecommunications Division.

b. The Petitioners are competitive local carriers (CLCs). The effectiveness of each of their future tariffs is subject to the schedules set forth in Decision (D.) 95-07-054, Appendix A, § 4E.

A. "E. CLCs shall be subject to the following tariff and contract-filing, revision and service-pricing standards:

- "(1) Uniform rate reductions for existing tariff services shall become effective on five (5) working days' notice to the Commission. Customer notification is not required for rate decreases.
- "(2) Uniform major rate increases for existing tariff services shall become effective on thirty (30) days' notice to the Commission, and shall require bill inserts, or a message on the bill itself, or first class mail notice to customers at least 30 days in advance of the pending rate increase.
- "(3) Uniform minor rate increases, as defined in D.95-07-054, shall become effective on not less than five (5) working days' notice to the Commission. Customer notification is not required for such minor rate increases.
- "(4) Advice letter filing for new services and for all other types of tariff revisions, except changes in text not affecting rates or relocations of text in the tariff schedules, shall become effective on forty (40) days' notice to the Commission.
- "(5) Advice letter filings revising the text or location of text material which do not result in an increase in any rate or charge shall become effective on not less than five (5) days' notice to the Commission.
- "(6) Contracts shall be subject to GO 96-A rules for NDIECs, except interconnection contracts.

“(7) CLCs shall file tariffs in accordance with Public Utilities (Pub. Util.) Code Section 876.”

4. The Petitioners may deviate from the following provisions of GO 96-A: (a) paragraph II.C.(1)(b), which requires consecutive sheet numbering and prohibits the reuse of sheet numbers, and (b) paragraph II.C.(4), which requires that “a separate sheet or series of sheets should be used for each rule.” Tariff filings incorporating these deviations shall be subject to the approval of the Commission’s Telecommunications Division. Tariff filings shall reflect all fees and surcharges to which Petitioners are subject, as described in Conclusion of Law 3. Petitioners are also exempt from GO 96-A Section II.G.(1) and (2) which require service of advice letters on competing and adjacent utilities, unless such utilities have specifically requested such service.

5. Each Petitioner shall file as part of its initial tariffs, after the effective date of this order and consistent with Ordering Paragraph 3, a service area map.

6. Prior to initiating service, each Petitioner shall provide the Commission’s Consumer Services Division with the Petitioner’s designated contact persons for purposes of resolving consumer complaints and the corresponding telephone numbers. This information shall be updated if the names or telephone numbers change or at least annually.

7. Where applicable, each Petitioner shall notify this Commission in writing of the date local exchange service is first rendered to the public within five days after service begins. The same procedure shall be followed for the authorized intraLATA and interLATA services, where applicable.

8. Each Petitioner shall keep its books and records in accordance with generally accepted accounting principles.

9. Petitioners shall each file an annual report, in compliance with GO 104-A, on a calendar-year basis using the information-request form developed by the Commission Staff and contained in Appendix A.

10. Petitioners shall ensure that its employees comply with the provisions of Pub. Util. Code § 2889.5 regarding solicitation of customers.

11. The certificate granted and the authority to render service under the rates, charges, and rules authorized will expire if not exercised within 12 months after the effective date of this order.

12. The corporate identification number assigned to each Petitioner, as set forth in Appendix B, shall be included in the caption of all original filings with this Commission, and in the titles of other pleadings filed in existing cases.

13. Within 60 days of the effective date of this order, each Petitioner shall comply with Pub. Util. Code § 708, Employee Identification Cards, reflecting its authority, and notify the Director of the Telecommunications Division in writing of its compliance.

14. Each Petitioner is exempted from the provisions of Pub. Util. Code §§ 816-830.

15. Each Petitioner is exempted from Pub. Util. Code § 851 for the transfer or encumbrance of property, whenever such transfer or encumbrance serves to secure debt.

16. If any Petitioner is 90 days or more late in filing an annual report or in remitting the fees listed in Conclusion of Law 4, Telecommunications Division shall prepare for Commission consideration a resolution that revokes that Petitioner's CPCN, unless that Petitioner has received written permission from Telecommunications Division to file or remit late.

17. The Final Mitigated Negative Declaration, including the Mitigation Monitoring Plan, attached as Appendix D of this decision is hereby approved and adopted.

18. Each of the Petitioners listed in Appendix B shall comply with the conditions and carry out the mitigation measures outlined in the adopted Mitigated Negative Declaration.

19. Each of the Petitioners shall provide the Director of the Commission's Energy Division with reports on compliance with the conditions and implementation of mitigation measures under the schedule outlined in the Mitigated Negative Declaration.

20. Petitioners shall comply with the consumer protection rules set forth in Appendix B of D.95-07-054.

21. Petitioners shall comply with the Commission's rules for local exchange competition in California that are set forth in Appendix C of D.95-12-056, including the requirement that CLCs shall place customer deposits in a protected, segregated, interest-bearing escrow account subject to Commission oversight.

22. Petitioners shall comply with the customer notification and education rules adopted in D.96-04-049 regarding the passage of calling party number.

23. Petitioners' respective motions for a limited protective order keeping designated documents containing financial and other operating information confidential are granted. Such documents will remain under seal for one year from today unless a petitioner makes a timely request for extension of confidential treatment of its documents by filing a separate motion with good cause shown.

24. The motion of DSLnet to have the resale portion of its CLC petition considered in the current quarterly cycle is granted.

25. The petitions listed in Appendix B are granted only as set forth above.

This order is effective today.

Dated June 24, 1999, at San Francisco, California.

RICHARD A. BILAS

President

HENRY M. DUQUE

JOSIAH L. NEEPER

JOEL Z. HYATT

CARL W. WOOD

Commissioners

Certified as a True Copy
of the Original



ASST. EXECUTIVE DIRECTOR, PUBLIC UTILITIES COMMISSION
STATE OF CALIFORNIA

APPENDIX A

Page 1 of 2

**TO: ALL COMPETITIVE LOCAL CARRIERS AND INTEREXCHANGE
TELEPHONE UTILITIES**

Article 5 of the Public Utilities Code grants authority to the California Public Utilities Commission to require all public utilities doing business in California to file reports as specified by the Commission on the utilities' California operations.

A specific annual report form has not yet been prescribed for the California interexchange telephone utilities. However, you are hereby directed to submit an original and two copies of the information requested in Attachment A no later than March 31st of the year following the calendar year for which the annual report is submitted.

Address your report to:

California Public Utilities Commission
Auditing and Compliance Branch, Room 3251
505 Van Ness Avenue
San Francisco, CA 94102-3298

Failure to file this information on time may result in a penalty as provided for in §§ 2107 and 2108 of the Public Utilities Code.

If you have any question concerning this matter, please call (415) 703-1961.

APPENDIX A
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Information Requested of California Competitive Local Carriers and Interexchange Telephone Utilities.

To be filed with the California Public Utilities Commission, 505 Van Ness Avenue, Room 3251, San Francisco, CA 94102-3298, no later than March 31st of the year following the calendar year for which the annual report is submitted.

1. Exact legal name and U # of reporting utility.
2. Address.
3. Name, title, address, and telephone number of the person to be contacted concerning the reported information.
4. Name and title of the officer having custody of the general books of account and the address of the office where such books are kept.
5. Type of organization (e.g., corporation, partnership, sole proprietorship, etc.).
If incorporated, specify:
 - a. Date of filing articles of incorporation with the Secretary of State.
 - b. State in which incorporated.
6. Commission decision number granting operating authority and the date of that decision.
7. Date operations were begun.
8. Description of other business activities in which the utility is engaged.
9. A list of all affiliated companies and their relationship to the utility. State if affiliate is a:
 - a. Regulated public utility.
 - b. Publicly held corporation.
10. Balance sheet as of December 31st of the year for which information is submitted.
11. Income statement for California operations for the calendar year for which information is submitted.

(END OF APPENDIX A)

APPENDIX B

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LISTING OF PETITIONERS GRANTED CPCN AUTHORITY

Requested Authority
Granted

Name of Petitioner	Petition No.	Utility U-No.	Requested Authority		Statewide Inter/Intra-LATA
			Local Exchange ¹ Facilities-based	Resale	
1. Eagle Communications of California, LLC	132	U-6182C	X	X	
2. US Data Highway Corp. ² ,	133	U-6183C	X		
3. Seren Innovations, Inc. ²	133	U-6184C	X	X	X
4. HTC Communications, LLC ²	135	U-6185C	X	X	X
5. Network Plus, Inc.	136	U-6186C	X	X	X
6. Campuslink Communications Systems, Inc. ²	137	U-6187C	X	X	X
7. XL Networks, Inc.	138	U-6188C	X	X	X
8. Triad Communications Corporation ²	139	U-6189C	X	X	X
9. NTC Network, LLC ²	140	U-6190C	X	X	X
10. DSLnet Communications, LLC ³	142	U-6191C		X	

¹ Unless otherwise indicated, the authorized local exchange service territory of each CLC petitioner is limited to the ILEC service territories of Pacific, GTEC.

² The authorized local exchange territory for this carrier encompasses the ILEC service territories of Pacific, GTEC, RTC, and CTC.

³ The facilities-based portion of the DSLnet petition shall be considered during the next quarterly review period.

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Eagle Communications, Pet. 132

Eagle Communications was to file a supplement to its petition as previously requested by the Telecommunications Staff to correct the many deficiencies to its tariffs. To date, it has not filed a supplement to correct the identified deficiencies. Eagle must file a revised set of tariffs that fully comply with D.95-07-054, D.95-12-056, D.95-12-057, D.96-04-049.

Network Plus – Pet. 136

Deficiencies in Network Plus's Proposed Tariffs

1. On each tariff sheet, (1) replace the phrase above the top horizontal line "Local Exchange Services" to "Competitive Local Carrier Tariff" and (2) add a vertical line on both the left and right margins.
2. Sheet No. 3, Preliminary Statement, 1.1, last paragraph. Replace the phrase "to resell local exchange telecommunications services within the State of California" to "*to provide facilities-based and resale local exchange services as a competitive local carrier in the service areas of Pacific Bell, GTEC, Citizens and Roseville Telephone Companies.*"
3. Sheet No. 13, Rule 1, Definitions. Include the definitions adopted in Decision 95-07-054 for: (1) Major Rate Increase, and (2) Minor Rate Increase.
4. Sheet No. 17, Rule 3, Customer Application for Service. Revise tariffs to fully comply with the provisions of Rule 2, Appendix B of Decision 95-07-054, (e.g., service initiation based on a written or oral agreement; confirmation letter

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5. briefly describing services, in case of an oral agreement; statement of terms/conditions for all new customers, etc.).

6. Sheet No. 18, Rule 5, Contracts and Agreements. Delete language re effectivity on five days' notice for "subsequent completed contracts." *All* contracts shall be subject to the 40-day notice until revised by the Commission.

7. Sheet No. 19. (1) Rule 6, Special Information Required on Forms. Revise tariff language to fully comply with the provisions of Rule 3 (A) and (B), Appendix B of Decision 95-07-054. (2) Rule 7, Establishment and Re-establishment of Credit. Include language on situations when deposits are not required. (See Rule 4, Appendix B of Decision 95-07-054.)

8. Sheet No. 20. (1) Rule 8, Advance Payments. Revise tariff language to indicate that advance payments shall be credited on the customer's first bill. (2) Deposits. Include language on the interest rate to be added to deposits. (See Rule 5, Appendix B of Decision 95-07-054.)

9. Sheet No. 21, Rule 9, Notices. (1) Revise tariff to indicate that cancellation of service by customers may be either verbal or written. (2) Include tariff language on rates and rate revisions and information on notices of discontinuance by a competitive local carrier. (See Rule 6, Appendix B of Decision 95-07-054.)

10. Sheet No. 22, Rule 10, Cancellation of Service by Company. Revise tariff to indicate that notice of discontinuance of service by a company for nonpayment of bills shall be provided in writing by first class mail to the customer not less than 7 calendar days prior to termination.

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11. Sheet No. 25, Rule 16, Rendering and Payment of Bills. Note that a five-month back billing period for error files and one and one-half years back billing period for fraud are applicable only to interexchange service providers. Revise tariff accordingly. (See Decision 88-09-061.)

12. Sheet Nos. 27 through 31, Liability of the Company. Adopt either Pacific Bell's or GTEC's limitation of liability. The limitation of liability of these companies are appended to Decision 95-12-057.

13. Sheet 36, Rule 25, Additional Provisions, etc., Section D. Include language to indicate that deposits will be refunded *with interest within 30 days* after discontinuance of service or 12 months of service, whichever comes first.

14. Sheet 37, Rule 26, Additional Provisions, etc. Comply with the back billing provisions of Decision 88-09-061 for local exchange service providers.

15. Sheet 68, Custom Calling Services. Briefly describe each feature. Delete any reference to Caller ID service. This service can only be provided upon compliance with the customer notification and education rules adopted in Decision 96-04-049.

16. Sheet 72, Taxes and Surcharges. Update the applicable California surcharges. The current surcharges are: (1) Reimbursement Fee - 0.11%; (2) ULTS - 0.00%; (3) CHCF-A - 0.00%; (4) CHCF-B - 3.8%; (5) California Relay Service & Communications Devices Fund - 0.192%; (6) California Teleconnect Fund - 0.05%.

17. Include tariffs on: (1) Directories, (2) Non-published service, (3) Demarcation points, (4) Pro-rating of bills, (5) Change of service provider,

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18. (6) Blocking of 976/900 calls, (7) Access to 911 by residential customers disconnected for nonpayment, (8) Switched access, (9) Number portability, (10) Privacy, (11) Universal Lifeline Telephone Service (ULTS) rates and income limitations, and (12) Sample forms. The forms may be filed with the company's initial tariff filing. (See Decision 95-07-054.)

NTC Network, LLC – Pet. 140

NTC has to file a full set of tariffs in compliance with D.95-07-054, etc.

(END OF APPENDIX C)

APPENDIX D

NEGATIVE DECLARATION (14)

Competitive Local Carriers' (CLCs) Projects for Local Exchange Telecommunications Service throughout California.

The subject of this Negative Declaration are nine current petitions/applications for authorization to provide facilities based local telephone services. (See Appendix B).

The California Public Utilities Commission is the lead agency in approving these petitioners' intent to compete in the local exchange market. Additional approvals by other agencies may be required depending upon the scope and type of construction proposed by the petitioner (e.g. federal, other state agencies, and ministerial permits by local agencies).

Because the subject projects of the nine current petitioners are similar, with some modifications, to the projects proposed by the past petitioners, the Commission incorporates, in whole, Negative Declaration 13 for these nine petitions/applications, and will refer to the incorporated documents as "Negative Declaration 14" (Section 15150 of CEQA Guidelines). **The public comment period for the Draft Negative Declaration 14 begins on April 29, 1999 and expires on May 28, 1999.** Comments should be addressed to: John Boccio, Project Manager, California Public Utilities Commission, Energy Division, 505 Van Ness Avenue, San Francisco, CA 94102, Fax: (415) 703-2200, E-Mail: jbx@cpuc.ca.gov. For further information call Mr. Boccio at (415) 703-2641.

BACKGROUND

The California Public Utilities Commission's Decision 95-07-054 enables telecommunications companies to compete with local telephone companies in providing local exchange service. Previous to this decision, local telephone service was monopolized by a single utility per service territory. The Commission initially received 66 petitions from companies to provide competitive local telephone service throughout areas presently served by Pacific Bell and GTE California. The 66 petitioners included cable television companies, cellular (wireless) companies,¹ long-distance service providers, local telephone service providers, and various other telecommunication companies that specialize in transporting data.

Forty of the sixty-six petitions were for approval of facilities-based services, which means that the petitioners proposed to use their own facilities in providing local telephone service. The remaining 26 petitions were strictly for approval of resale-based services, meaning that telephone

¹ Wireless companies covered in the Negative Declarations adopted by the Commission for entry in the local telephone market are also subject to Commission General Order (G.O. 159A). G.O. 159A delegates to local governments the authority to issue discretionary permits for the approval of proposed sites for wireless facilities. Commission adoption of the Negative Declarations is not intended to supersede or invalidate the requirements contained in General Order 159A.

service will be resold using another competitor's facilities. (Most of the facilities-based petitioners offer resale-based services as well.) The 40 facilities-based petitions indicated that physical modifications to existing facilities may be required, and construction of new facilities was a possibility in the long-term. The 26 resale-based petitions were strictly financial and billing arrangements that involved no construction and were therefore considered to be exempt from the California Environmental Quality Act (CEQA) (Public Resources Code Sections 21000 et seq.).

The Commission issued a draft Negative Declaration for the initial 40 facilities-based petitioners in October 1995. Comments on the draft Negative Declaration covered issues such as traffic congestion, public safety, cumulative impacts, aesthetic impacts, and physical wear on streets. These comments were addressed and the Negative Declaration was modified to some extent in response to the comments. In December 1995, Commission Decision D.95-12-057 adopted a final mitigated Negative Declaration finding that the proposed projects of the initial 40 facilities-based petitioners would not have potentially significant environmental effects with specified mitigation measures incorporated by the projects.

Following the adoption of D.95-12-057, the Commission received eight additional petitions for facilities-based services. The eight petitioners included cable television companies, resale-based providers approved by D.95-12-057, and other telecommunication companies. Following the public comment period, the Commission made minor modifications to the first Negative Declaration, and in September 1996, the Commission adopted the second Negative Declaration for these eight companies (D.96-09-072). (This Negative Declaration is sometimes referred to as "Negative Declaration II"). In January 1997, the Commission adopted a third Negative Declaration for eight more facilities-based petitioners. "Negative Declaration III" is virtually the same document as Negative Declaration II because the proposed projects of the eight petitioners were no different from the projects proposed by the two groups of petitioners that preceded them. Following the issuance of Negative Declaration III, ten subsequent Negative Declarations, Negative Declaration IV (D.97-04-011), Negative Declaration V (D.97-06-100), Negative Declaration VI (D.97-09-110), Negative Declaration VII (D.97-12-084), Negative Declaration IX (D.98-03-066), Negative Declaration X (D.98-06-067), Negative Declaration 11 (D.98-09-66), and Negative Declaration 12 (D.98-12-083) and Negative Declaration 13 (D.99-03-050) have been adopted by the Commission in granting authority to provide facilities based local telecommunication services under essentially the same circumstances. (Negative Declaration VIII addressed telecommunication companies petitioning to provide services in the Roseville Telephone Company and Citizens Telephone Company of California service areas only). Negative Declaration IV addressed nine petitioners, Negative Declaration V addressed six petitioners, Negative Declaration VI addressed eight petitioners Negative Declaration VII addressed five petitioners, Negative Declaration VIII addressed eleven petitioners, Negative Declaration IX addressed eleven petitioners, Negative Declaration X addressed, two petitioners and Negative Declaration 11 addressed eight petitioners and Negative Declaration 12 addressed twelve petitioners.

PROJECT DESCRIPTION

Following the adoption of Negative Declaration 13, the Commission received nine more petitions/applications for facilities-based services. These petitioners are the subject of this Negative Declaration. *(See Appendix B for a list of the current facilities-based petitioners.)*

Similar to the earlier petitioners, most of the current petitioners are initially targeting local telephone service for areas where their telecommunications infrastructure is already established, and therefore only minor construction is envisioned. Services provided will include but not be limited to voice, data, video, internet and other telecommunications services. The petitioners will need to make some modifications to their existing facilities; these modifications are minor in nature, the most common being the installation of a switch that connects potential customers to outside systems. Switch installation is necessary because customers receiving a particular type of service may not have access to local telephone networks. For example, customers receiving cable television service are presently unable to connect to local telephone networks because of the differences in modes of service. A switch installation by a cable television provider is one step that makes the connection possible. Switch installation is considered a minor modification because it typically involves a single installation within an existing central communication facility or building.

Besides the minor modifications, some of the companies are planning to install their own fiber optic cables to provide adequate service. Cables will be installed within existing utility underground conduits or ducts, or attached to utility poles with existing overhead lines whenever possible. Fiber optic cables are extremely thin, and existing conduits will likely be able to hold multiple cables. However, if existing conduits or poles are unable to accommodate additional cables, then new conduits or poles will need to be constructed by the petitioner. In this case, the petitioners will construct within existing utility rights-of-way. There is also the possibility that the petitioners may attempt to access other rights-of-way (such as roads) to construct additional conduits. Extension of existing rights-of-way into undisturbed areas is not likely, but a possibility.

The installation of fiber optic cables into underground conduits will vary in complexity depending upon the conditions of the surrounding area. For example, in urban, commercial areas, utility conduits can be accessible with minimal groundbreaking and installation simply requires stringing the cable through one end of the conduit and connecting it to the desired end. In this case, major excavation of the right-of-way is unnecessary. However, there may also be conditions where access to the conduit will require trenching and excavation.

Some of the petitioners have plans to construct service boxes or cabinets which contain batteries for the provision of power or emergency power. The dimensions of the boxes vary, but basically range from three to five feet in height. Depending upon the type of technology and facilities operated by the petitioner, smaller service boxes (approximately 3 inches in height) would be used for power supply and backup power. Those petitioners who have no plans to use such

boxes already have capable power and backup power within their existing facilities. The petitioners who will need such boxes, have committed to placing the boxes in existing buildings, or in underground vaults. If conditions do not permit building or underground installation, the petitioners would use small low-profile boxes that are landscaped and fenced.

While most of the petitioners will initially compete for customers in urban, commercial and residential zones where telecommunication infrastructure is already in place, some petitioners state their intention or right to compete on a state wide basis wherever competition is permitted. However it is unclear at this time if all areas will be affected by the projects because many petitioners are not specific where they intend to compete in the long-run.

ENVIRONMENTAL DETERMINATION

An Initial Study was prepared to assess the projects' potential effects on the environment, and the respective significance of those effects. Based on the Initial Study, the CLCs' projects for competitive local exchange service have the potential to cause significant adverse effects on the environment in the area of Land Use and Planning, Geological Resources, Water, Air Quality, Transportation and Circulation, Hazards, Noise, Public Services, Aesthetic and Cultural Resources. The projects will have less than a significant effect in other resource areas of the checklist. It should be noted that Findings 2 through 10 are for those projects which require work within existing utility rights-of-way for the purpose of modifying existing facilities or installing new facilities. Finding 1 is applicable for work outside of the existing utility rights-of-way.

In response to the Initial Study, the following specific measures should be incorporated into the projects to assure that they will not have any significant adverse effects on the environment. (*See Public Resources Code Section 21064.5.*)

As a general matter, many of the mitigation measures rely on compliance with local standards and the local ministerial permit process. Although local safety and aesthetic input is essential in minimizing the impact of the petitioner's construction, local jurisdictions cannot impose standards or permit requirements which would prevent petitioners from developing their service territories, or otherwise interfere with the statewide interest in competitive telecommunication service. Therefore, the petitioners' required compliance with local permit requirements is subject to this limitation.

The findings of the draft Negative Declaration were modified in response to comments filed during the public comment period from Negative Declarations II and IV. Changes are marked by italics.

1. The proposed projects could have potentially significant environmental effects for all environmental factors if a proposed project extends beyond the utility right-of-way into undisturbed areas or into other rights-of-way. ("Utility right-of-way" means any utility

right-of-way, not limited to only telecommunication utility right-of-way.) For the most part, the petitioners do not plan to conduct projects that are beyond the utility right-of-way. However, should this occur, the petitioner shall file a Petition to Modify its Certificate for Public Convenience and Necessity (CPCN). An appropriate environmental analysis of the impacts of these site specific activities shall be done.

2. The proposed projects will not have any significant effects on Population and Housing, Biological Resources, Energy and Mineral Resources, and Recreation if the proposed projects remain within existing utility right-of-way. There are no potential environmental effects in these areas, or adequate measures are incorporated into the projects to assure that significant effects will not occur.

3. The proposed projects could have potentially significant environmental effects on Geological Resources because possible upgrades or installations to underground conduits may induce erosion due to excavation, grading and fill. It is unclear as to how many times underground conduits may be accessed by the petitioners, but it is reasonable to assume that constant excavation by various providers could result in erosion in areas where soil containment is particularly unstable.

In order to mitigate any potential effects on geological resources, the petitioners shall comply with all local design, construction and safety standards by obtaining all applicable ministerial permits from the appropriate local agencies. In particular, erosion control plans shall be developed and implemented for areas identified as particularly unstable or susceptible to erosion. If more than one petitioner plans to excavate geologically sensitive areas, coordination of their plans shall be necessary to minimize the number and duration of disturbances.

4. The proposed projects could have potentially significant environmental effects on Water Resources because possible upgrades or installation to underground conduits may be in close proximity to underground or surface water sources. While the anticipated construction will generally occur within existing utility rights-of-way, the projects have the potential to impact nearby water sources if heavy excavation is required as the method of access to the conduits.

In order to mitigate any potential effects on water resources, the petitioners shall comply with all local design, construction and safety standards. This will include consultation with all appropriate local, state *and federal* water resource agencies for projects that are in close proximity to water resources, underground or surface. The petitioners shall comply with all applicable local, state *and federal* water resource regulations. Appropriate site specific mitigation plans shall be developed by the petitioners if the projects impact water quality, drainage, direction, flow or quantity. If there is more than one petitioner for a particular area that requires excavation, coordination plans shall be required to minimize the number and duration of disturbances.

5. The proposed projects could have potentially significant environmental effects on Air Quality because possible excavation efforts for underground conduits may result in vehicle emissions and airborne dust for the immediate areas of impact. This is especially foreseeable if more than one petitioner should attempt such work in the same locale. While the impact will be temporary, the emissions and dust could exceed air quality standards for the area.

The petitioners shall develop and implement appropriate dust control measures during excavation as recommended by the applicable air quality management district. The petitioners shall comply with all applicable air quality standards as established by the affected air quality management districts. If there is more than one petitioner for a particular area that requires excavation, coordination plans shall be required to minimize the number and duration of disturbances.

6. The proposed projects could have potentially significant environmental impacts on Transportation and Circulation and Public Services because uncoordinated efforts by the petitioners to install fiber optic cable could result in a cumulative impact of traffic congestion, insufficient parking and hazards or barriers for pedestrians. This is foreseeable if the competitors choose to compete in the same locality and desire to install their own cables. If the selected area is particularly dense with heavy vehicular or pedestrian traffic, the impacts could be enormous without sufficient control and coordination. Uncoordinated efforts may also adversely impact the quality and longevity of public street maintenance because numerous excavation activity depreciates the life of the surface pavement. *Impacts from trenching activity may occur in utility rights-of-way that contain other Public Services such as irrigation water lines.*

The petitioners² shall coordinate their efforts to install fiber optic cables or additional conduits so that the number of encroachments to the utility rights-of-way are minimized. These coordination efforts shall also include affected transportation and planning agencies to coordinate other projects unrelated to the petitioners' projects. *For example, review of a planning agency's Capital Improvement Plan (CIP) to identify impacted street projects would be an expected part of the coordination effort by the petitioner.* Besides coordinating their efforts, the petitioners shall abide by all local construction, maintenance and safety standards (*and state standards, if applicable*) by acquiring the necessary ministerial permits from the appropriate local agency or CalTrans (*if within a State right-of-way*). Examples of these permits are excavation, encroachment and building permits. Appropriate construction start and end times, and dates if appropriate,

² The petitioners discussed in this Negative Declaration shall coordinate with all CLCs including those listed in the first Negative Declaration adopted by the Commission (D.95-12-057) and all CLCs in future Negative Declarations. CLCs covered in the first Negative Declaration shall likewise be expected coordinate with those CLCs listed in this Negative Declaration or any subsequent one adopted by the Commission.

shall be employed to avoid peak traffic periods and to minimize disruption, especially if the petitioners' work encroaches upon transportation rights-of-way. *Petitioners shall consult with local agencies on appropriate restoration of public service facilities that are damaged by the construction and shall be responsible for such restoration.*

7. The proposed projects could have potentially significant hazard-related effects because uncoordinated construction efforts described above could potentially interfere with emergency response or evacuation plans. There is also potential for an increase in overhead lines and poles which carry hazard-related impacts.

The same mitigation plan as described in the previous section is applicable here as well, and shall be augmented by notice to and consultation with emergency response or evacuation agencies if the proposed project interferes with routes used for emergencies or evacuations. The coordination efforts shall include provisions so that emergency or evacuation plans are not hindered. If the projects result in an increase in overhead communication lines, the petitioner shall obtain the necessary ministerial permits to erect the necessary poles to support the lines. The Commission shall include these facilities as part of its overhead line regular inspections so that the requirements of G.O. 95 are met.

8. The proposed projects could have potentially significant environmental effects on Noise because it is possible some projects may require excavation or trenching. Although the effect is likely to be short-term, existing levels of noise could be exceeded.

If the petitioner requires excavation, trenching or other heavy construction activities which would produce significant noise impacts, the petitioner shall abide by all applicable local noise standards and shall inform surrounding property owners and occupants (particularly school districts, hospitals and the residential neighborhoods) of the day(s) when most construction noise would occur. Notice shall be given at least two weeks in advance of the construction.

9. The proposed projects could have potentially significant environmental effects on aesthetics because it is possible that additional lines on poles in utility rights-of-way could become excessive for a particular area. *Aesthetic impacts may also occur in utility rights-of-way that are landscaped.* Moreover, there is potential for an increase in above grade utility service boxes or cabinets which also carry aesthetic impacts.

Local aesthetic concerns shall be addressed by the petitioners for all facilities that are above-ground, in particular all types of service boxes or cabinets. The local land use or planning agency shall be consulted by the petitioner so that any site-specific aesthetic impacts are assessed and properly mitigated. *For example, this may include restoration of the landscaped utility rights-of-way.*

10. The proposed projects could have potentially significant environmental effects on

cultural resources because situations involving additional trenching may result in *disturbing known* or unanticipated archaeological or historical resources.

The petitioners shall conduct appropriate data research for known cultural resources in the proposed project area, and avoid such resources in designing and constructing the project. Should cultural resources be encountered during construction, all earthmoving activity which would adversely impact such resources shall be halted or altered so as to avoid such impacts, until the petitioner retains the service of a qualified archaeologist who will do the appropriate examination and analysis. The archeologist shall consult with appropriate federal, state and local agencies concerned with cultural resources, so that any potential impacts upon cultural resources are assessed and properly avoided or mitigated. The archeologist shall, in coordination with agencies, develop a plan for avoiding or mitigating any potential impacts upon those resources encountered.

In summary, the Mitigation Measures recommended in this environmental determination are:

A) All Environmental Factors: if a proposed project extends beyond the utility right-of-way into undisturbed areas or other right-of-way, the petitioner shall file a Petition to Modify its Certificate for Public Convenience and Necessity (CPCN). ("Utility right-of-way" means any utility right-of-way, not limited to only telecommunications utility right-of-way.) An appropriate environmental analysis of the impacts of these site specific activities shall be done.

If the projects remain within the utility right-of-way, the following Mitigation Measures are recommended:

B) General Cumulative Impacts: in the event that more than one petitioner seeks modifications or additions to a particular locality, the petitioners shall coordinate their plans with each other, and consult with affected local agencies so that any cumulative effects on the environment are minimized. These coordination efforts shall reduce the number and duration of disturbance to existing utility right-of-way. Regardless of the number of petitioners for a particular locality, the petitioner shall consult with, and abide by the standards established, by all applicable local agencies. Each petitioner shall file a quarterly report, one month prior to the beginning of each quarter, that summarizes the construction projects that are anticipated for the coming quarter. The summary will contain a description of the type of construction and the location for each project so that the local planning agencies can adequately coordinate multiple projects if necessary. The reports will also contain a summary of the petitioner's compliance with all Mitigation Measures for the projects listed. The quarterly reports will be filed with the local planning agencies where the projects are expected to take place and the Commission's Telecommunications Division. The Commission filing will be in the form of an informational advice letter. Subsequent quarterly reports shall also summarize the status

of the projects listed in previous quarterly report, until they are completed.

C) Geological Resources: the petitioners shall comply with all local design construction and safety standards by obtaining all applicable ministerial permits from the appropriate local agencies including the development and approval of erosion control plans. These shall be developed and implemented for areas identified as particularly unstable or susceptible to erosion. If more than one petitioner plans to excavate sensitive areas, coordination of their plans shall be necessary to minimize the number of disturbances. The petitioner's compliance with this Mitigation Measure shall be included in its quarterly report.

D) Water Resources: the petitioners shall consult with all appropriate local, state *and federal* water resource agencies for projects that are in close proximity to water resources, underground or surface. The petitioners shall comply with all applicable local, state *and federal* water resource regulations including the development of site-specific mitigation plans should the projects impact water quality, drainage, direction, flow or quantity. If there is more than one petitioner for a particular area that requires excavation, coordination plans shall be required to minimize the number of disturbances. The petitioner's compliance with this Mitigation Measure shall be included in its quarterly report.

E) Air Quality: the petitioners shall develop and implement appropriate dust control measures during excavation as recommended by the applicable air quality management district. The petitioners shall comply with all applicable air quality standards as established by the affected air quality management districts. If there is more than one petitioner for a particular area that requires excavation, coordination plans shall be required to minimize the number of disturbances. The petitioner's compliance with this Mitigation Measure shall be included in its quarterly report.

F) Transportation and Circulation and Public Services: the petitioners³ shall coordinate their efforts to install fiber optic cables or additional conduits so that the number of disturbances to the utility rights-of-way are minimized. These coordination efforts shall include affected transportation and planning agencies to coordinate other projects unrelated to the petitioners' projects. *For example, review of a planning agency's Capital Improvement Plan (CIP) to identify impacted street projects would be an expected part of the coordination effort by the petitioner.* Besides coordinating their efforts, the petitioners shall abide by all local construction, maintenance and safety standards (*and state standards, if applicable*) by acquiring the necessary ministerial permits from the appropriate local agency *and/or CalTrans (if within State right-of-way)*. Examples of these permits are excavation, encroachment and building permits. Appropriate construction start and end times, and dates if appropriate, shall be employed

3 See Footnote #2.

to avoid peak traffic periods, especially if the petitioners' work encroaches upon transportation rights-of-way. Notice to the affected area (surrounding property owners and occupants) shall be given at least two weeks in advance of the construction. The notice will provide the time and dates of the proposed construction and discussion of potential impacts on traffic and circulation. *Petitioners shall consult with local agencies on appropriate restoration of public service facilities that are damaged by the construction and shall be responsible for such restoration.* The notice required for Mitigation Measures F and H shall be consolidated. The petitioner's compliance with this Mitigation Measure shall be included in its quarterly report.

G) Hazards: the petitioners shall use the Transportation and Circulation mitigation measure and augment it by informing and consulting with emergency response or evacuation agencies if the proposed project interferes with routes used for emergencies or evacuations. The coordination effort shall include provisions so that emergency or evacuation plans are not hindered. If the projects result in an increase in overhead communication lines, the petitioner shall obtain the necessary ministerial permits to erect the necessary poles to support the lines. The Commission shall include these facilities as part of its overhead line regular inspections so that the requirements of G.O. 95 are met. The petitioner's compliance with this Mitigation Measure shall be included in its quarterly report.

H) Noise: the petitioner shall abide by all applicable local noise standards and shall inform surrounding property owners and occupants, particularly school districts, hospitals and the residential neighborhoods, of the day(s) when most construction noise would occur if the petitioner plans excavation, trenching or other heavy construction activities which would cause any significant noise. Notice shall be given at least two weeks in advance of the construction. The notice required for Mitigation Measures F and H shall be consolidated. The petitioner's compliance with this Mitigation Measure shall be included in its quarterly report.

I) Aesthetics: All applicable local aesthetic standards will be addressed by the petitioners for all facilities that are above-ground, in particular all types of service boxes or cabinets. The local land use agency shall be consulted by the petitioner so that any site-specific aesthetic impacts are assessed and properly mitigated *by the petitioner. For example, this may include restoration of the landscaped utility rights-of-way.* Petitioner's compliance with this Mitigation Measure shall be included in its quarterly report.

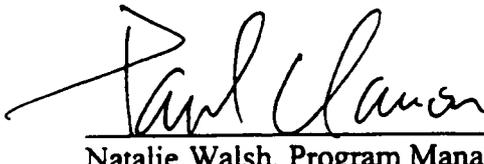
J) Cultural Resources: *The petitioners shall conduct appropriate data research for known cultural resources in the proposed project area, and avoid such resources in designing and constructing the project.* Should cultural resources be encountered during construction, all earthmoving activity which would adversely impact such resources shall be halted or altered until the petitioner retains the service of a qualified archaeologist who will do the appropriate examination and analysis. The archaeologist will provide

proposals for any procedures to mitigate the impact upon those resources encountered. The treatment plan will be designed through coordination with the appropriate federal, state and local agencies. The petitioner's compliance with this Mitigation Measure shall be included in its quarterly report.

General Statement for all Mitigation Measures:

Although local safety and aesthetic input is essential in minimizing the impact of the petitioner's construction, local jurisdictions cannot impose standards or permit requirements which would prevent petitioners from developing their service territories, or otherwise interfere with the statewide interest in competitive telecommunication service. Therefore, the petitioners' required compliance with local permit requirements is subject to this limitation.

With the implementation of the mitigation measures listed in A) - J) above, the Commission should conclude that the proposed projects will not have one or more potentially significant environmental effects. The Commission should also adopt a Mitigation Monitoring Plan which will ensure that the Mitigation Measures listed above will be followed and implemented. The Mitigation Monitoring Plan is included with this Negative Declaration as Appendix C.

 *Paul Claman* for N. Walsh

Natalie Walsh, Program Manager
Analysis Branch
Energy Division

4-27-99

Date

INITIAL STUDY CHECKLIST

Environmental Factors Potentially Affected:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Land Use and Planning | <input checked="" type="checkbox"/> Transportation/Circulation | <input checked="" type="checkbox"/> Public Services |
| <input type="checkbox"/> Population and Housing | <input type="checkbox"/> Biological Resources | <input checked="" type="checkbox"/> Utilities and Service Systems |
| <input checked="" type="checkbox"/> Geological Problems | <input type="checkbox"/> Energy and Mineral Resources | <input checked="" type="checkbox"/> Aesthetics |
| <input checked="" type="checkbox"/> Water | <input checked="" type="checkbox"/> Hazards | <input checked="" type="checkbox"/> Cultural Resources |
| <input checked="" type="checkbox"/> Air Quality | <input checked="" type="checkbox"/> Noise | <input type="checkbox"/> Recreation |
| | <input checked="" type="checkbox"/> Mandatory Findings of Significance | |

Note: For construction outside of the utility rights-of-way, potential environmental impacts are too variable and uncertain to be specifically evaluated in this Initial Study, but are addressed in Environmental Determination 1 and Mitigation Measure (A) in the Negative Declaration.

Determination:

On the basis of this initial evaluation:

I find that the proposed projects COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures described on an attached sheet have been added to the projects. A NEGATIVE DECLARATION will be prepared.

I find that the proposed projects MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

I find that the proposed projects MAY have a significant effect(s) on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on an earlier analysis as described on attached sheets, if the effect is a "potentially significant impact" or "potentially significant unless mitigated." An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

I find that although the proposed project could have a significant effect on the environment, there WILL NOT be a significant effect in this case because all potentially significant effects (a) have been analyzed adequately in an earlier EIR pursuant to applicable standards and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions or mitigation measures that are imposed upon the proposed project.



Paul Clamor.
Signature For N. Walsh

4-27-99
Date

Natalie Walsh
Printed Name

Program Manager
Analysis Branch
Energy Division
California Public Utilities Commission

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
I. LAND USE AND PLANNING. Would the proposal:				
a) Conflict with general plan designation or zoning?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict with applicable environmental plans or policies adopted by agencies with jurisdiction over the project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Be incompatible with existing land use in the vicinity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Affect agricultural resources or operations (e.g. impacts to soils or farmlands, or impacts from incompatible land uses)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Disrupt or divide the physical arrangement of an established community (including a low-income or minority community)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The proposed projects are not anticipated to have any significant impacts on general or environmental plans, zoning, existing land usage, or agricultural resources. The projects are essentially modifications to existing facilities within established utility rights-of-way. Since these rights-of-way are already designed to be in compliance with zoning and land use plans, disruption of such plans are not foreseeable. In the event that the petitioners need to construct facilities that extend beyond the rights-of-way, see Mitigation Measure A in the Negative Declaration.

II. POPULATION AND HOUSING. Would the proposal:

a) Cumulatively exceed official regional or local population projections?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Induce substantial growth in an area either directly or indirectly (e.g. through projects in an undeveloped area or extension of major infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace existing housing, especially affordable housing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The proposed projects will not have impacts upon population or housing. The purpose of the projects is to

introduce competition into the local telephone service market. Since competition will be generally statewide and not centered in one locale, it is not anticipated that the projects will have an effect on population projections or housing availability of any particular area. The areas that will not initially receive the competition are rural, less populated areas; it cannot be seen that the initial lack of competitive services in these areas will result in significant movements of people to areas where competition will be heavy.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
III. GEOLOGIC PROBLEMS. Would the proposal result in or expose people to potential impacts involving:				
a) Fault rupture?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Seismic ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Seiche, tsunami, or volcanic hazard?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Landslides or mudflows?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Erosion, changes in topography or unstable soil conditions from excavation, grading, or fill?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Subsidence of land?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Expansive soils?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Unique geologic or physical features?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The projects will be constructed within existing utility facilities or established utility rights-of-way and will therefore not expose people to new risks for any of these impacts, except possibly erosion. Should additional cable facilities require the installation of new or upgraded conduits, trenching, excavation, grading and fill could be required. For appropriate mitigation, see Mitigation Measures (B) and (C) for details in the Negative Declaration.

IV. WATER. Would the proposal result in:

a) Changes in absorption rates, drainage patterns, or the rate and amount of surface runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Exposure of people or property to water related hazards such as flooding?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Discharge into surface waters or other alteration of surface water quality (e.g. temperature, dissolved oxygen or turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Changes in the amount of surface water in any water body?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Changes in currents, or the course or direction of water movements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations or through substantial loss of groundwater recharge capability?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Altered direction or rate of flow of groundwater?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Impacts to groundwater quality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) Substantial reduction in the amount of groundwater otherwise available for public water supplies?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The projects will involve alterations to existing telecommunication facilities (underground conduits or overhead poles) but could expose additional risks if more than one petitioner decide to compete in the same locality. Efforts to install cables, or if necessary, new conduits, in utility rights-of-way that are in close proximity to an underground or surface water sources could carry significant effects for quality, flow, quantity, direction or drainage if done improperly and without coordination. See Mitigation Measures (B) and (D) in the Negative Declaration for details.

V. AIR QUALITY. Would the proposal:

a) Violate any air quality standard or contribute to an existing or projected air quality violation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Expose sensitive receptors to pollutants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Alter air movement, moisture, or temperature, or cause any change in climate?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Create objectionable odors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If the projects do not require excavation or trenching of underground conduits, they will not have an effect upon air quality, movement, temperature or climate. However, should the projects require such work and, if more than one petitioner decide to work in the same locale, there is potential for an increase in dust in the immediate area. See Mitigation Measures (B) and (E) in the Negative Declaration for details.

VI. TRANSPORTATION/CIRCULATION.

Would the proposal result in:

a) Increased vehicle trips or traffic congestion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Hazards to safety from design features (e.g. sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Inadequate emergency access or access to nearby uses?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Insufficient parking capacity on-site or off-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Hazards or barriers for pedestrians or bicyclists?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Conflicts with adopted policies supporting alternative transportation (e.g. bus turnouts, bicycle racks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Rail, waterborne or air traffic impacts?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The petitioners plan to modify existing utility conduits or poles within existing utility rights-of-way initially in urban, commercial zones and residential areas. Modification of these facilities by a single party does not present significant impacts upon traffic or circulation since the installation process is not expected to be lengthy. However, if more than one of the petitioners decide to compete in the same locality, their efforts to install their own cables will have a significant cumulative effect on circulation, especially in dense, urban commercial areas. As a result, increases in traffic congestion, insufficient parking, and hazards or barriers for pedestrian are possible. See Mitigation Measures (B) and (F) in the Negative Declaration for details.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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VII. BIOLOGICAL RESOURCES.

Would the proposal result in impacts to:

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Endangered, threatened, or rare species or their habitats (including but not limited to plants, fish, insects, animals, and birds)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Locally designated species (e.g. heritage trees)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Locally designated natural communities (e.g. oak forest, coastal habitat, etc.)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Wetland habitat (e.g. marsh, riparian and vernal pool)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) Wildlife dispersal or migration corridors? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

The projects will not affect any biological resources since all anticipated work will occur within existing utility facilities or established utility rights-of-way. Established utility rights-of-way are assumed to be outside of locally designated natural communities, habitats or migration corridors.

VIII. ENERGY AND MINERAL RESOURCES.

Would the proposal result in:

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Conflict with adopted energy conservation plans? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Use non-renewable resources in a wasteful and inefficient manner? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Result in the loss of availability of a known mineral resource that would be of future value to the region and the residents of the State? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

The projects will no impact upon mineral resources or the use of energy. The projects provide competitive telecommunication services that have no direct relationship to efficient energy use or mineral resources. The installation of additional fiber optic cables are within existing facilities or rights-of-way that are assumed to have adequate mitigation designs to avoid impacts on any mineral resources within proximity.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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IX. HAZARDS. Would the proposal involve:

- | | | | | |
|--|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| a) A risk of accidental explosion or release of hazardous substances (including, but not limited to: oil, pesticides, chemicals or radiation)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Possible interference with an emergency response plan or emergency evacuation plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c) The creation of any health hazard or potential health hazard? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Exposure of people to existing sources of potential health hazards? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) Increased fire hazard in areas with flammable brush, grass, or trees? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

The installation of fiber optic cables can be a quick, clean and simple procedure with little use of heavy machinery. However there may be situations where excavation and trenching of underground conduits is necessary if the conduits are not easily accessible. Should this occur, uncoordinated efforts by the petitioners in one concentrated area could potentially affect emergency response or evacuation plans for that locale. See Mitigation Measures (B) and (G) in the Negative Declaration for details. Once the project is completed, the additional cables do not represent any additional hazards to people nor do they increase the possibility of fires.

X. NOISE. Would the proposal result in:

- | | | | | |
|---|--------------------------|-------------------------------------|--------------------------|--------------------------|
| a) Increases in existing noise levels? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b) Exposure of people to severe noise levels? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

The anticipated projects can be a quick and simple procedure, but in some cases could require heavy machinery or construction activity such as excavation, trenching, grading and refill. There is also the possibility that uncoordinated efforts by the petitioners in one locale could increase existing noise levels, if their activities involve the construction described. See Mitigation Measures (B) and (H) in the Negative Declaration for details.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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XI. PUBLIC SERVICES. Would the proposal have an effect upon, or result in a need for new or altered government services in any of the following areas:

- | | | | | |
|---|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| a) Fire protection? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Police protection? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Schools? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Maintenance of public facilities, including roads? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e) Other government services? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

The proposed projects will increase competition in the local telephone service. The construction associated with the projects have potential impacts on the maintenance of public streets and roads. Numerous disturbances to the street surfaces depreciates the quality and longevity of the pavement. Trenching projects may also impact other existing public service facilities (e.g. irrigation lines) in the utility rights-of-way. Mitigation Measure F addresses this impact.

XII. UTILITIES AND SERVICE SYSTEMS. Would the proposal result in a need for new systems or supplies, or substantial alterations to the following utilities:

- | | | | | |
|--|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| a) Power or natural gas? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Communication systems? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c) Local or regional water treatment or distribution facilities? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Sewer or septic tanks? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) Storm water drainage? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f) Solid waste disposal? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g) Local or regional water supplies? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

The proposed projects could substantially alter communication systems in the event that existing facilities are unable to accommodate all of the participants in the market. If this should occur, additional conduits or poles for telecommunication equipment will need to be inserted in existing utility rights-of-way or the petitioners may seek entry to other rights-of-way. If the petitioners are forced to construct outside of the existing utility rights-of-way,

Mitigation Measure A is applicable. For work within the rights-of-way, see Mitigation Measure B in the Negative Declaration.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
--	--------------------------------	--	------------------------------	-----------

XIII. AESTHETICS. Would the proposal:

- | | | | | |
|---|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| a) Affect a scenic vista or scenic highway? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b) Have a demonstrated negative aesthetic effect? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c) Create light or glare? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

The proposed projects will occur within utility rights of way that will be either be undergrounded or on existing poles. Undergrounded facilities will have no demonstrated negative aesthetic effects. *However, landscaped utility rights-of-way may be impacted by trenching activities.* Additional lines on the poles may be a concern, but the proposed cables are not easily discernible and will unlikely have a negative impact. The only scenario where an aesthetic effect can occur is if the number of competitors for a particular area become so heavy that the cables on the poles become excessive. There is potential for an increase in service boxes if the boxes cannot be installed within buildings or underground. Should this occur, the petitioners should follow Mitigation Measures (B) and (I) as described in the Negative Declaration.

XIV. CULTURAL RESOURCES. Would the proposal:

- | | | | | |
|--|--------------------------|-------------------------------------|--------------------------|--------------------------|
| a) Disturb paleontological resources? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b) Disturb archaeological resources? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c) Affect historical resources? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d) Have potential to cause a physical change which would affect unique ethnic cultural values? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e) Restrict existing religious or sacred uses within the potential impact area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

The projects will involve existing utility facilities or established rights-of-way that are assumed to be clear from any paleontological, historical or archaeological resources. However, some projects may require excavation or trenching of utility rights-of-way, or outside the rights-of-way. If *known or* unanticipated cultural resources are encountered during such work, then the Mitigation Measures (B) and (J) should be followed. See Negative Declaration for details.

	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
--	--------------------------------------	--	------------------------------------	--------------

XV. RECREATION. Would the proposal:

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Increase the demand for neighborhood or regional parks or other recreational facilities? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Affect existing recreational opportunities? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

The projects will have no impact on recreational facilities or opportunities since these resources have no direction relationship to increased competition in local telephone services.

XVI. MANDATORY FINDINGS OF SIGNIFICANCE.

- | | | | | |
|---|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probably future projects.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

APPENDIX B

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New York, NY 10022
2. US Data Highway Corp.
1.95-04-044 (Pet. 133) 1113 Hopkins Way
Pleasanton, CA 94566
3. Seren Innovations, Inc.
1.95-04-044 (Pet. 134) 15 South 5th Street, Suite 500
Minneapolis, MN 55402
4. HTC Communications, LLC
1.95-04-044 (Pet. 135) 2131 N. Lamer Street
Burbank, CA 91504
5. Network Plus, Inc.
1.95-04-044 (Pet. 136) 234 Copeland Street
Quincy, MA 02169
6. Campuslink Communications Systems, Inc.
1.95-04-044 (Pet. 137) 1530 Eisenhower Place
Ann Arbor, MI 48108
7. XL Networks, Inc.
1.95-04-044 (Pet. 138) 909 Via Mirola
Palos Verdes Estates, CA 90274
8. Triad Communications Corporation
1.95-04-044 (Pet. 139) 2420 Sand Hill Road
Menlo, Park, CA 94025
9. **NTC Network, LLC**
1.95-04-044 (Pet. 140) 700 Wilshire Boulevard, 7th Floor
Los Angeles, CA 90017

Appendix C

Mitigation Monitoring Plan

Competitive Local Carriers (CLCs)

Projects for Local Exchange Telecommunication Service throughout California

Introduction:

The purpose of this section is to describe the mitigation monitoring process for the CLCs' proposed projects and to describe the roles and responsibilities of government agencies in implementing and enforcing the selected mitigation measures.

California Public Utilities Commission (Commission):

The Public Utilities Code confers authority upon the Commission to regulate the terms of service and safety, practices and equipment of utilities subject to its jurisdiction. It is the standard practice of the Commission to require that mitigation measures stipulated as conditions of approval be implemented properly, monitored, and reported on. Section 21081.6 of the Public Utilities Code requires a public agency to adopt a reporting and monitoring program when it approves a project that is subject to the adoption of a mitigated negative declaration.

The purpose of a reporting and monitoring program is to ensure that measures adopted to mitigate or avoid significant environmental impacts are implemented. The Commission views the reporting and monitoring program as a working guide to facilitate not only the implementation of mitigation measures by the project proponents, but also the monitoring, compliance and reporting activities of the Commission and any monitors it may designate.

The Commission will address its responsibility under Public Resources Code Section 21081.6 when it takes action on the CLCs' petitions to provide local exchange telephone service. If the Commission adopts the Negative Declaration and approves the petitions, it will also adopt this Mitigation Monitoring Plan as an attachment to the Negative Declaration.

Project Description:

The Commission has authorized various companies to provide local exchange telephone service in competition with Pacific Bell, GTE California, Roseville Telephone Company and Citizens Telephone Company of California. The current petitioners notified the Commission of their intent to compete in the territories throughout California, all of which are facilities-based services meaning that they propose to use their own facilities to provide service.

Step 1: Disputes and complaints (including those of the public) shall be directed first to the Commission's designated Project Manager for resolution. The Project Manager will attempt to resolve the dispute.

Step 2: Should this informal process fail, the Commission Project Manager may initiate enforcement or compliance action to address deviation from the proposed project or adopted Mitigation Monitoring Program.

Step 3: If a dispute or complaint regarding the implementation or evaluation of the Mitigation Monitoring Program or the Mitigation Measures cannot be resolved informally or through enforcement or compliance action by the Commission, any affected participant in the dispute or complaint may file a written "notice of dispute" with the Commission's Executive Director. This notice shall be filed in order to resolve the dispute in a timely manner, with copies concurrently served on other affected participants. Within 10 days of receipt, the Executive Director or designee(s) shall meet or confer with the filer and other affected participants for purposes of resolving the dispute. The Executive Director shall issue an Executive Resolution describing his decision, and serve it on the filer and the other participants.

Parties may also seek review by the Commission through existing procedures specified in the Commission's Rules of Practice and Procedure, although a good faith effort should first be made to use the foregoing procedure.

Mitigation Monitoring Program:

1. As discussed in Mitigation Measure B, the petitioners shall file a quarterly report which summarizes those projects which they intend to construct for the coming quarter. The report will contain a description of the project and its location, and a summary of the petitioner's compliance with the Mitigation Measures described in the Negative Declaration. The purpose of the report is to inform the local agencies of future projects so that coordination of projects among petitioners in the same locality can be done. The quarterly report shall be filed with the appropriate planning agency of the locality where the project(s) will occur. The report shall also be filed as an informational advice letter with the Commission's Telecommunications Division so that petitioner compliance with the Mitigation Measures are monitored.

In order to ensure that the Mitigation Measures are fulfilled, the Commission will make periodic reviews of the projects listed in quarterly reports. The projects will be generally chosen at random, although the Commission will review any project at its discretion. The reviews will follow-up with the local jurisdictions so that all applicable Mitigation Measures are addressed.

If any project is expected to go beyond the existing utility rights-of-way, that project will require a separate petition to modify the CPCN. The petitioner shall file the petition with the Commission and shall also inform the affected local agencies in writing. The local agencies are also responsible for informing the Commission of any project listed in the quarterly reports which may potentially go out of the existing utility right-of-way. As discussed in Mitigation Measure A, a complete environmental review of the project will be triggered under CEQA, with the Commission as the lead agency.

2. In the event that the petitioner and the local agency do not agree if a project results in work outside of the utility rights-of-way, the Commission will review the project and make the final determination. See **Dispute Resolution Process** discussed above.

3. For projects that are in the utility rights-of-way, the petitioners shall abide by all applicable local standards as discussed in the Mitigation Measures. If a petitioner fails to comply with local regulatory standards by either neglecting to obtain the necessary permits, or by neglecting to follow the conditions of the permits, the local agency shall notify the Commission and **Dispute Resolution Process** begins..

4. The Commission is the final arbiter for all unresolvable disputes between the local agencies and the petitioners. If the Commission finds that the petitioner has not complied with the Mitigation Measures in the Negative Declaration, it may halt and terminate the project.

Since many of the facilities-based petitioners are initially targeting local telephone service for areas where their telecommunications infrastructure is already established, very little construction is envisioned. However, there will be occasion where the petitioners will need to install fiber optic cable within existing utility underground conduits or attach cables to overhead lines. There is the possibility that existing utility conduits or poles will be unable to accommodate all the planned facilities, thereby forcing some petitioners to build or extend additional conduits into other rights-of-way, or into undisturbed areas. For more details on the project description please see **Project Description** in the Negative Declaration.

Roles and Responsibilities:

As the lead agency under the California Environmental Quality Act (CEQA), the Commission is required to monitor this project to ensure that the required mitigation measures are implemented. The Commission will be responsible for ensuring full compliance with the provisions of this monitoring program and has primary responsibility for implementation of the monitoring program. The purpose of this monitoring program is to document that the mitigation measures required by the Commission are implemented and that mitigated environmental impacts are reduced to insignificance or avoided outright.

Because of the geographic extent of the proposed projects, the Commission may delegate duties and responsibilities for monitoring to other environmental monitors or consultants as deemed necessary. For specific enforcement responsibilities of each mitigation measure, please refer to the Mitigation Monitoring Table attached to this plan.

The Commission has the ultimate authority to halt any construction, operation, or maintenance activity associated with the CLC's local telephone service projects if the activity is determined to be a deviation from the approved project or adopted mitigation measures. For details refer to the mitigation monitoring plan discussed below.

Mitigation Monitoring Table:

The table attached to this plan presents a compilation of the Mitigation Measures in the Negative Declaration. The purpose of the table is to provide the monitoring agencies with a single comprehensive list of mitigation measures, effectiveness criteria, the enforcing agencies, and timing.

Dispute Resolution Process:

The Mitigation Monitoring Plan is expected to reduce or eliminate many potential disputes. However, in the event that a dispute occurs, the following procedure will be observed:

Mitigation Monitoring Table

Impact	Mitigation Measure	Monitoring/Reporting	Prevention/Control	Responsible Agency	Timing
ALL FACTORS					
Extension or work beyond or outside of the existing utility right-of-way into undisturbed areas.	A. Petitioner must file a Petition to modify its CPCN. An appropriate environmental study of the project is done.	Quarterly reports.	Any work outside of existing utility right-of-way is assessed through an environmental study.	CPUC	Before construction
CUMULATIVE EFFECTS					
Cumulative impacts due to multiple disturbances to a particular area.	B. Coordination efforts among the petitioners and the affected local agencies so that construction projects in the same location can be combined or simultaneous.	Quarterly reports.	The number and duration of disturbances to a particular area are minimized.	Local agencies.	Before construction
GEOLOGICAL RESOURCES					
Potential erosion due to excavation, grading and fill.	C. Petitioners shall comply with all local design, construction and safety standards through permit process. Erosion control plans for areas identified as susceptible to erosion.	Quarterly reports.	Erosion at the project areas is contained.	Local agencies.	Before and during construction.
WATER RESOURCES					
Potential impact on water resources, underground or surface due to excavation or grading work.	D. Petitioners shall consult with all appropriate water resource agencies for projects in close proximity to water resources. Appropriate mitigation plans shall be developed and compliance to all local and state water regulations is required.	Quarterly reports.	Impacts to water quality, drainage, flow, direction and quantity are averted.	Federal agencies Local agencies. Applicable state water resource agencies.	Before and during construction.

* The CPUC is ultimately responsible for compliance with the mitigation measures listed in this document, but shall defer the responsibility to federal, state and local agencies, unless otherwise designated.

Mitigation Monitoring Table

HAZARDS	Mitigation Measure	Monitoring/Reporting	Effectiveness Criteria	Responsible Agency	Timing
Potential increase in overhead poles and communication lines.	G. Petitioner shall obtain all necessary building permits for the poles. CPUC will inspect the overhead lines.	Quarterly reports.	Poles are built in compliance with local safety standards. Lines are inspected and maintained as safe.	CPUC Local agencies.	Before and during construction.
NOISE					
Noise standards for the area are exceeded due to construction.	H. All applicable noise standards shall be complied with by the petitioners. Petitioners shall notice the surrounding area of constructions dates and times.	Quarterly reports.	Noise from construction is kept to levels that do not exceed local standards.	Local agencies	Before and during construction.
AESTHETICS					
Service boxes or cabinets may be a visual blight. Landscaping in utility right-of-way may be impacted by trenching.	I. All applicable aesthetic standards will be met by petitioners for above-ground facilities, especially service cabinets. Consult with local agencies on proper restoration of landscaping.	Quarterly reports.	Cabinets are placed within existing buildings, underground, or in areas that are landscaped so that aesthetic impacts are minimized. Landscaping restored to original form.	Local agencies.	Before and during construction.
CULTURAL RESOURCES					
Cultural resources are encountered during construction; resources are damaged or moved.	J. All earthmoving that would impact the resources shall cease or be altered until the petitioner retains the service of an archaeologist who will propose mitigation. Thorough research done prior to construction to avoid known resources.	Quarterly reports.	Cultural resources that are encountered are not destroyed or adversely impacted.	Local, state and/or federal agencies.	Before and during construction.

(END OF APPENDIX D)

PROOF OF SERVICE BY MAIL

I, Lillian Li, declare:

I am over the age of 18 years, not a party to this proceeding, and am employed by the California Public Utilities Commission at 505 Van Ness Avenue, San Francisco, California.

On 6/24/99, I deposited in the mail at San Francisco, California, a copy of:

99-06-083
(DECISION NUMBER OR TYPE OF HEARING)

6/24/99
(DATE OF HEARING)

R95-04-043/295-04-044
(APPLICATION/CASE/OII/OIR NUMBER)

in a sealed envelope, with postage prepaid, addressed to the last known address of each of the addressees in the attached list.

I declare under penalty of perjury that the foregoing is true and correct and that this declaration was executed on 6/24/99, at San Francisco, California.

Lillian Li

*Signature
9/92

CA-21
6/24/99

R 95-04-043
I 95-04-044

DECISION: 99-06-083
MAIL DATE: 6/24/99

Copy of "OPINION" and order mailed to the following.

SEE ATTACHED LIST FOR APPEARANCES, STATE SERVICE

6/18/99
lil

Count 245

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Last updated on 18-JUN-1999 by: LIL
R9504043 LIST
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Confirmation of MLA | AT&T & Crown Castle Fiber LLC

CROWN CASTLE / AT&T AGREEMENT SW771

This letter acknowledges that AT&T and Crown Castle Fiber LLC f/k/a NextG entered into a Master License Agreement on June 16th, 2005, which authorizes Crown Castle Fiber LLC f/k/a NextG to attach wireless communications equipment to AT&T owned wood poles. After AT&T's engineering review and approval of each individual poles proposed make ready work, AT&T will issue Crown Castle's permit to attach.

A handwritten signature in black ink, appearing to read 'J. Serrato'.

JOE SERRATO
Supervisor, Utility Relations
T: (408) 468-5564 | M: (408) 785-0411

CROWN CASTLE
1 Park Place, 3rd Floor, Dublin, CA 94568
Fiber.CrownCastle.com

A handwritten signature in black ink, appearing to read 'Victoria Kneer'.

VICTORIA KNEER
Area Manager – Structure Access West
Construction & Engineering-West
T: 916.213.7669 | vm5625@att.com

AT&T West
2700 Watt Ave, rm 4475, Sacramento, CA 95821

Environmental Information Form

CITY OF SAN MATEO ENVIRONMENTAL INFORMATION FORM INSTRUCTIONS

The information provided by the applicant on this form will enable City staff to understand the proposed project and to prepare any necessary environmental documents. **Careful completion of this form will enable staff to more efficiently and quickly process your application.**

Answers to the 34 numbered questions should be entered in the space provided. At the end of each question, circle YES or NO. If you circle YES, please complete all subsections of that question. If you circle NO proceed to the next numbered question. All questions must be answered to complete your application. Extra sheets may be attached if longer responses are necessary.

Please contact Planning Staff at (650) 522-7212 if you have any questions in completing this form.

EXISTING SITE & DEVELOPMENT

1. Site area (sq. ft. or acres): Back of curb - 2x2 sq ft

2. Zoning: R1A

3. Is there existing development on site? YES NO

a. Existing building floor area (gross sq. ft.): _____

b. Existing building coverage: _____

c. Number of existing off-street parking spaces: _____

d. Number of existing bicycle parking spaces: _____

e. Number of existing structures on the site: _____

f. Existing use (# of units of residential, or type of use and sq. ft. of use if commercial):

4. Are structures or portions thereof, to be removed? YES NO

a. Square footage to be removed: _____

5. Is the property encumbered by any easements? YES NO

a. Please attach title report and map showing all easements.

6. Describe, in general, the existing uses to the:

North of the site: Residential

South of the site: Residential

East of the site: Residential

West of the site: Residential

PROJECT DESCRIPTION

7. Is the project a residential development?

YES NO

a. Unit description:

Type of Unit	Number of Units	Unit Size (range in sq. ft.)	Household Size
Studio			
1 Bedroom			
2 Bedroom			
3 Bedroom			
TOTAL:			

b. Total floor area (gross sq. ft.): _____

c. Total lot coverage (sq. ft.) if site is zoned R4-D, R5-D or R6-D: _____

d. Number of off-street parking spaces provided:

	Covered	Open	TOTAL
Standard			
Compact			
Handicap			
Total			

e. Number of bicycle parking facilities (9' x 18' areas) provided: _____

f. Is the proposed project RENTAL or OWNERSHIP? (circle one)

g. Approximate range of sales prices or rental rates: _____

h. Number of stories: _____

i. Building height in feet: _____

j. Building setbacks: Front _____ Left Side _____ Right Side _____ Rear _____

8. Is the project a **COMMERCIAL** INDUSTRIAL, or INSTITUTIONAL development?
 (circle one)

- a. Type of use: Crown Castle small wireless facility on an existing utility pole in PROW
- b. Gross floor area: N/A
- c. Total lot coverage (sq. ft.): N/A
- d. Estimated max. no. of employees per shift: N/A
- e. Total no. of employees: N/A
- f. Days/hours of operation: N/A
- g. Number of off-street parking spaces provided:

	Covered	Open	TOTAL
Standard			
Compact			
Handicap			
Total			

- h. Type of loading facilities provided: N/A
- i. Number of bicycle facilities provided: N/A
- j. Number of stories: N/A
- k. Building height (in feet): N/A
- l. Building setbacks: Front _____ Left Side _____ Right Side _____ Rear _____

9. Is the proposed development a phased project? YES **NO**

- a. Describe each phase and schedule for development: _____

- b. Describe any associated projects: _____

10. If the project involves a variance, conditional use or rezoning application, state this and indicate clearly why the application is required. Wireless Communication Facilities Permit
required for all wireless facilities installed in San Mateo.

11. Describe any change in scenic views or vistas from existing residential areas or public lands and roads. No changes in any scenic views.

12. Describe any change in the patterns, scale or character of the general area of the property. No changes in patterns, scales, or character.

GEOLOGY/LAND FORM

13. Will the project involve construction on slopes of 20% or greater? YES NO

a. Maximum gradient of the property: _____ % (vertical rise ÷ horizontal run)

b. Average gradient of the property: _____ % (corner to diagonal corner of site)

14. Will the project involve construction of retaining walls? YES NO

a. Maximum height (ft.): _____

b. Total length (ft.): _____

15. Does the project involve excavation for underground parking? YES NO

a. Depth of construction (ft.): _____

b. Maximum slope of garage ramp (%): _____

16. Will the proposed project involve grading? YES NO

a. Total cut (cubic yds.) _____

b. Total fill (cubic yds.) _____

c. Maximum depth of cut (ft.) _____

d. Maximum depth of fill (ft.) _____

e. Maximum slope of cut and fill slopes (vertical / horizontal): _____

- f. Land area to be disturbed (sq. ft.): _____
- g. Proposed erosion control measures: _____
- h. Proposed measures to prevent failure of slopes: _____

17. Does the site contain a known landslide area, soil creep, expansive soils or other evidence of geologic failure? YES NO

- a. Describe nature and location(s): _____

18. Does the site contain an unusual geologic landform, such as a ridge line or rock outcrop? YES NO

- a. Describe feature: _____
- b. Describe any proposed modification: _____

WATER/HYDROLOGY

19. Does the site contain or abut a natural drainage channel or streambed? YES NO

- a. Describe location(s): _____

20. Describe any proposed alterations to such channel(s) or stream bed(s): _____

21. Does the site abut the Bay, Marina Lagoon, or a slough? YES NO

- a. Describe any proposed alterations to such water feature or shoreline. _____

22. Describe the expected amount of water use (except for residential development of fewer than 4 units):

Domestic: N/A gal/day Peak Use: N/A gal/day
 Commercial: N/A gal/day Peak Use: N/A gal/day

Expected fire flow demand: N/A gal/min.

Daily sewer discharge (over 30 fixtures only): N/A gal/day

VEGETATION

23. Will the project remove any trees that are 6" or greater in diameter at a point 4' above grade, or a substantial amount of natural plant cover? YES NO

a. List the number, types and sizes of all trees existing on the site, and all of these to be removed. (Attach another sheet if more space is needed.) _____

b. Describe the existing natural brush and groundcover features of the site and any proposed reduction. _____

EXTERNAL IMPACTS

24. Will the proposed project generate dust, smoke, fumes or odors, excluding dust during construction? YES NO

a. Describe emission(s), extent and duration: _____

25. Will the project involve the use, storage or disposal of potentially toxic or hazardous materials, including solvents, acids, pesticides, herbicides, or radioactive substances? YES NO

a. Detail type(s), quantities, storage and disposal procedures: _____

26. Is the project expected to generate noise in sufficient levels to be heard beyond the boundaries of the site? YES NO

a. Describe noise generating activities: _____

b. Daily time duration: _____

UTILITIES/PUBLIC WORKS

27. Will the proposed project require extension or alteration of existing electrical transmission and distribution facilities? YES NO

a. Give details of extension: _____

b. Describe location of new electric transformer, if required: _____

28. Are any off-site improvements proposed (such as sewer or storm drain extensions)? YES NO

a. Please describe nature and location: _____

29. Will the proposed project incorporate any measures to conserve electricity, or water? YES NO

a. Please describe: _____

30. Are new curb cuts proposed or existing curb cuts eliminated? YES NO

a. Describe number and location(s): _____

31. Are new streets, or driveways in excess of 300 feet in length, to be developed within the proposed project? YES NO

a. Indicate whether private or public: _____
b. List lengths and widths: _____
c. Maximum grade (%): _____

32. Will proposed structures be protected by fire sprinklers? YES NO

DISPLACEMENT

33. Will existing businesses or residents be displaced by the proposed development? YES NO

a. Describe type(s) of business(es) or numbers of residents to be displaced: _____

b. Describe any relocation assistance proposed: _____

LIGHTING/SIGNAGE

34. Does the proposed project include the addition of new exterior lighting? YES **NO**

Describe location(s), type(s) and wattage of light fixtures proposed: _____

35. Are signs proposed as part of the proposed project? YES NO

a. Please provide the following information for all proposed signs:

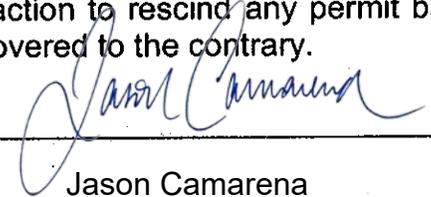
Type of Sign (pole, wall, projecting, etc.)	Area (sq. ft.)	Length (ft.)	Height (ft.)	Max. Height (for pole signs)
Pole	.44'	8"	8"	20'
Pole	.17	4"	6"	10'

b. Will sign(s) flash or include movement? YES **NO**

Please describe: _____

CERTIFICATION

I certify that the above answers are true and correct to the best of my knowledge, and I understand that subsequent action to rescind any permit based upon this questionnaire may be possible if evidence is uncovered to the contrary.

Signature: 
Name: Jason Camarena

PERSON COMPLETING THIS APPLICATION

Name: Jason Camarena Date: 11/1/2023
Address: 1 Park Pl, Suite 300
City: Dublin State: CA Zip: 94568
Daytime Phone Number: (925) 201-5806

RF Compliance Report



WATERFORD

RF EMISSIONS COMPLIANCE REPORT

Prepared for:

Crown Castle
1 Park Place
Dublin, CA 94568

Site:

CA_SF_SANMATEO_210M2
535 Clark Dr
San Mateo, CA 94402
37.565984, -122.349195

September 20, 2023

This site will be in compliance with

FCC Regulations and MPE Limits:

**Crown Castle Is 1.2% of General Population (GP) Limit
(0.24% of Occupational (Occ) Limit)**

Certification

I have reviewed this RF Emissions assessment report and believe it to be both true and accurate to the best of my knowledge.

Analysis completed using Waterford's NIERTool© software

Only clients and client representatives are authorized to provide input data through the Waterford web portal. In securing that authorization, clients and client representatives warrant the accuracy of all input data. Waterford Consultants, LLC attests to the accuracy of the engineering calculations. Waterford also attests that the results of those engineering calculations are correctly summarized in this report.

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7430 New Technology Way, Suite 150

Frederick, Maryland 21703

(703) 596-1022 Phone

www.waterfordconsultants.com

Control # 100357

RF EMISSIONS COMPLIANCE STATEMENT

Site:
CA_SF_SANMATEO_210M2
535 Clark Dr
San Mateo, CA 94402

Compliance Statement

Subject site COMPLIES with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310.

Ground Level Site Summary

Predicted cumulative RF power density at ground level as a percentage of the FCC General Population limits. This result is the sum of the maximum ground level MPE for each RF emitter by band of operation. Sites below 100% are in full compliance.

Source	Predicted Power Density, % of Limit (GP)
Verizon 28000 MHz	1.200 %
Sum of Listed Sources	1.200%

Antenna Level Site Summary

Predicted cumulative RF power density at elevated levels near the antenna(s) has been evaluated with respect to the FCC General Population limits. The mitigation measures recommended herein are necessary to achieve and maintain compliance at the site based on the following assessment:

Antenna Level Assessment

Signage directives for this report are specified in the Elevation Detail Plot which depicts predicted RF power density near the antenna as a percentage of the FCC General Population limits. Areas exceeding 100% of the General Population limits are depicted as blue. Any work required within areas exceeding 100% of the limits should be coordinated with wireless operators or performed by personnel trained in RF safety and equipped with personal protection equipment. Workers in areas depicted as green or clear will not be exposed to hazardous levels of RF energy and no action is required to maintain a safe working environment.

As shown in the Elevation Detail Plot, the following keep-back distances to the FCC limits have been determined:

Reference Level	Maximum Level: General Population (%)	Maximum Level: Occupational (%)
Ground Level	1.200	0.240
Antenna Level	355.931	71.186

Distance to FCC 100% MPE Limits at Antenna Level

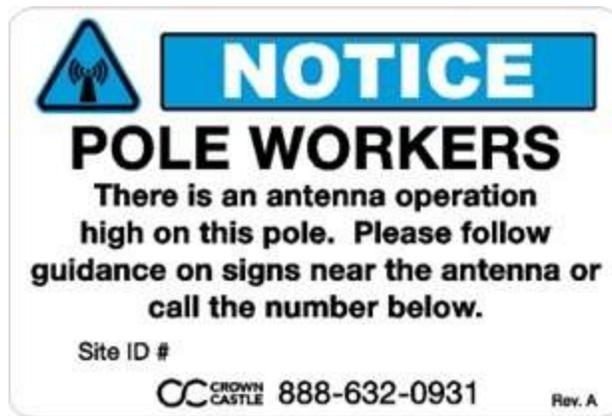
- Vertical Stand Off Distance (General Population) 3 feet
- Vertical Stand Off Distance (Occupational) N/A
- Horizontal Stand Off Distance (General Population) 5 feet
- Horizontal Stand Off Distance (Occupational) N/A

Distance to FCC 100% MPE Limits at Ground Level

- Horizontal Stand Off Distance (General Population) N/A
- Horizontal Stand Off Distance (Occupational) N/A

RF Alerting Signage

The "Notice" sign must be posted near the bottom of the pole or on the shroud any time there is a zone near the antenna that exceeds the General Population limit. This sign should be mounted where it is easily visible to workers on the ground as they approach the pole. Suggested locations include on the pole about 8-10' from the ground or on the front of the equipment shroud if it is mounted on the pole.



The "Caution" sign must be posted on the antenna any time there is an area that exceeds the FCC General Public exposure limit. The keep-back distance for the General Population limit must be filled in on the sign as depicted below. This sign must be mounted on or just below the radiating antenna so that it is maximally visible to workers approaching the antenna in a lift or bucket truck. If there is more than one radiating antenna and they are less than 5' apart then the sign should be mounted on or near the lower antenna. If there are multiple radiating antennas and they are >5' apart then separate signs should be mounted on or near each antenna.



Technical Framework: Basis for Compliance Statement

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure (“MPE”) limits listed in Table 1 of 47 C.F.R. § 1.1310. Calculations using input data provided to Waterford by client or client's representative numerically confirm the subject site can operate at a 100% duty cycle without exceeding the FCC MPE limits in areas of uncontrolled access.

At this site, the radio frequency (RF) power density resulting from each transmitter at any location may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, continuous exposure to RF power density levels below the FCC General Population limits is not hazardous. The FCC General Population limits are 5 times more restrictive than the Occupational limits.

Frequency (MHz)	<i>Limits for General Population/ Uncontrolled Exposure</i>		<i>Limits for Occupational/ Controlled Exposure</i>	
	Power Density (mW/cm ²)	Averaging Time (minutes)	Power Density (mW/cm ²)	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

In situations where the predicted MPE exceeds the General Population threshold in an accessible area because of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

For any location where radiofrequency (RF) power densities exceed 100% MPE of the General Population limits, access controls with appropriate RF alerting signage must be available to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with the wireless operators.

Predictive Modeling

Based on the computational guidelines set forth in FCC Office of Engineering and Technology, Bulletin 65 ("OET65"), Waterford Consultants, LLC has developed software to predict the overall MPE possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

The tabular analysis in this report calculates the spatial peak power density produced at ground level from each RF emitter. The far field power density in milliWatts per square centimeter is expressed as $S_{ff} = 33.4 \times ERP / R^2$ where ERP is the Effective Radiated Power along a specific azimuth in Watts and R is the distance from the antenna radiation center in meters. The antenna manufacturer's horizontal and vertical radiation patterns have been considered in determining the ERP in any direction. This computation is based on the maximum ERP and includes a 1.6-fold increase in field strength due to ground reflection. The result provides a conservative estimate of spatially averaged power density at ground level and may be higher than predicted MPE in the graphical plots described below.

As the limits are frequency dependent, the contribution of any RF source at a specific location may be expressed as a percentage of the FCC General Population MPE limits at the associated operating frequency. The percentage contributions from all RF sources are added to determine the overall exposure level. If this result is less than 100%, the predicted cumulative exposure level is below the General Population limits set forth in the FCC Rules. The cumulative MPE depicted on the summary page is the summation of maximum MPE values for each emitter regardless of antenna orientation.

A graphical plot of calculated spatially averaged RF power density, based on the Cylindrical Model as described in OET65, predicts spatially averaged MPE conditions at areas in near proximity to the antenna. In the vertical display, predicted MPE is depicted at the center of the 6 ft vertical zone that a person could occupy.

Qualifications of Waterford

With more than 100 team-years of experience, Waterford Consultants, LLC [Waterford] provides technical consulting services to clients in the radio communications and antenna locating industry. Waterford retains professional engineers who are placed in responsible charge of the processes for analysis.

Waterford is familiar with 47 C.F.R. § § 1.1307(b)(3) and 1.1310 along with the general Rules, Regulations and policies of the FCC. Waterford work processes incorporate all specifications of FCC Office of Engineering and Technology, Bulletin 65 ("OET65"), from the website: www.fcc.gov/oet/rfsafety and follow criteria detailed in 47 CFR § 1.1310 "Radiofrequency radiation exposure Limits".

Within the technical and regulatory framework detailed above, Waterford developed tools according to recognized and generally accepted good engineering practices. Permissible exposure limits are band specific, and the Waterford computerized modeling tools correctly calculate permissible exposure based on the band(s) specified in the input data. Only clients and client representatives are authorized to provide input data through the Waterford web portal. In securing that authorization, clients and client representatives attest to the accuracy of all input data.

Waterford Consultants, LLC attests to the accuracy of the engineering calculations computed by those modeling tools. Furthermore, Waterford attests that the results of those engineering calculations are correctly summarized in this report.

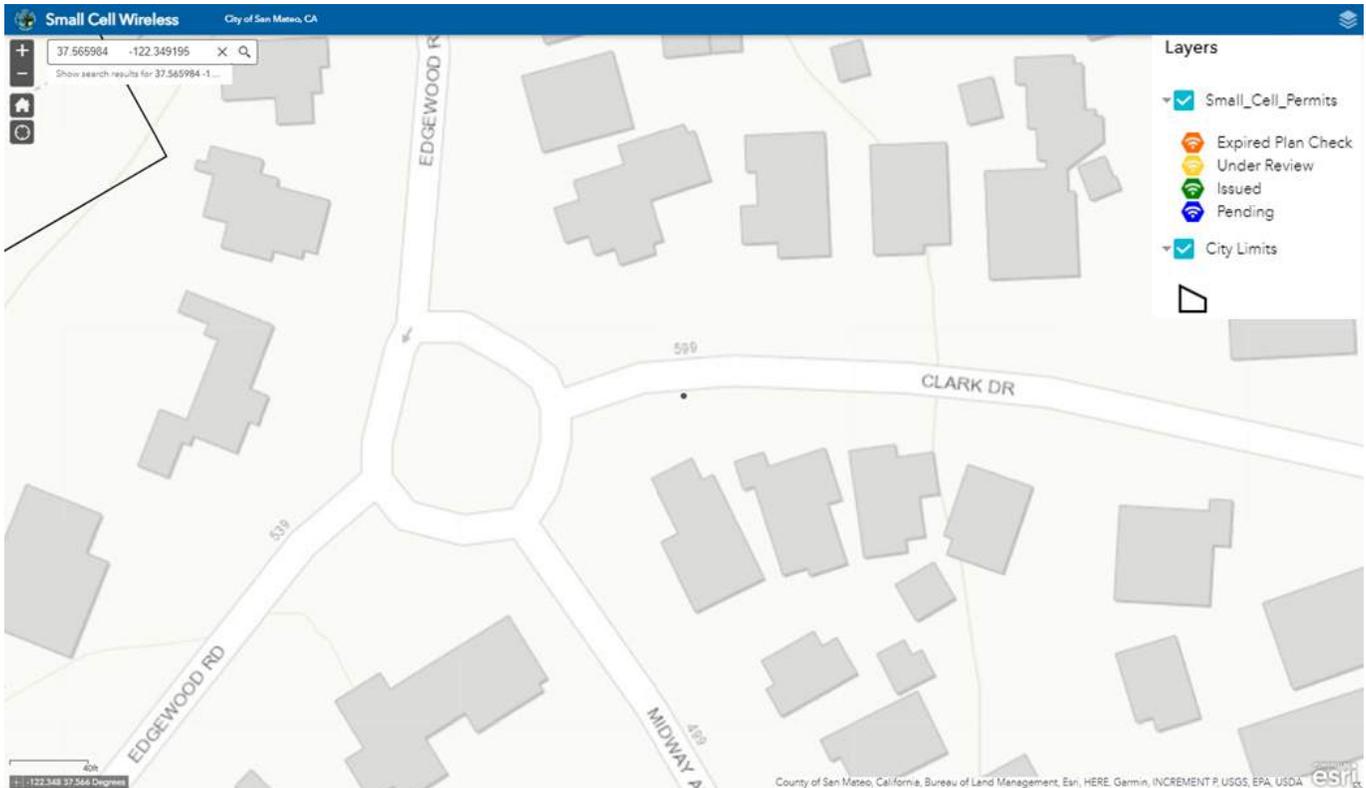
Certification

My stamp and signature on the cover indicates that I am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

Antenna Inventory

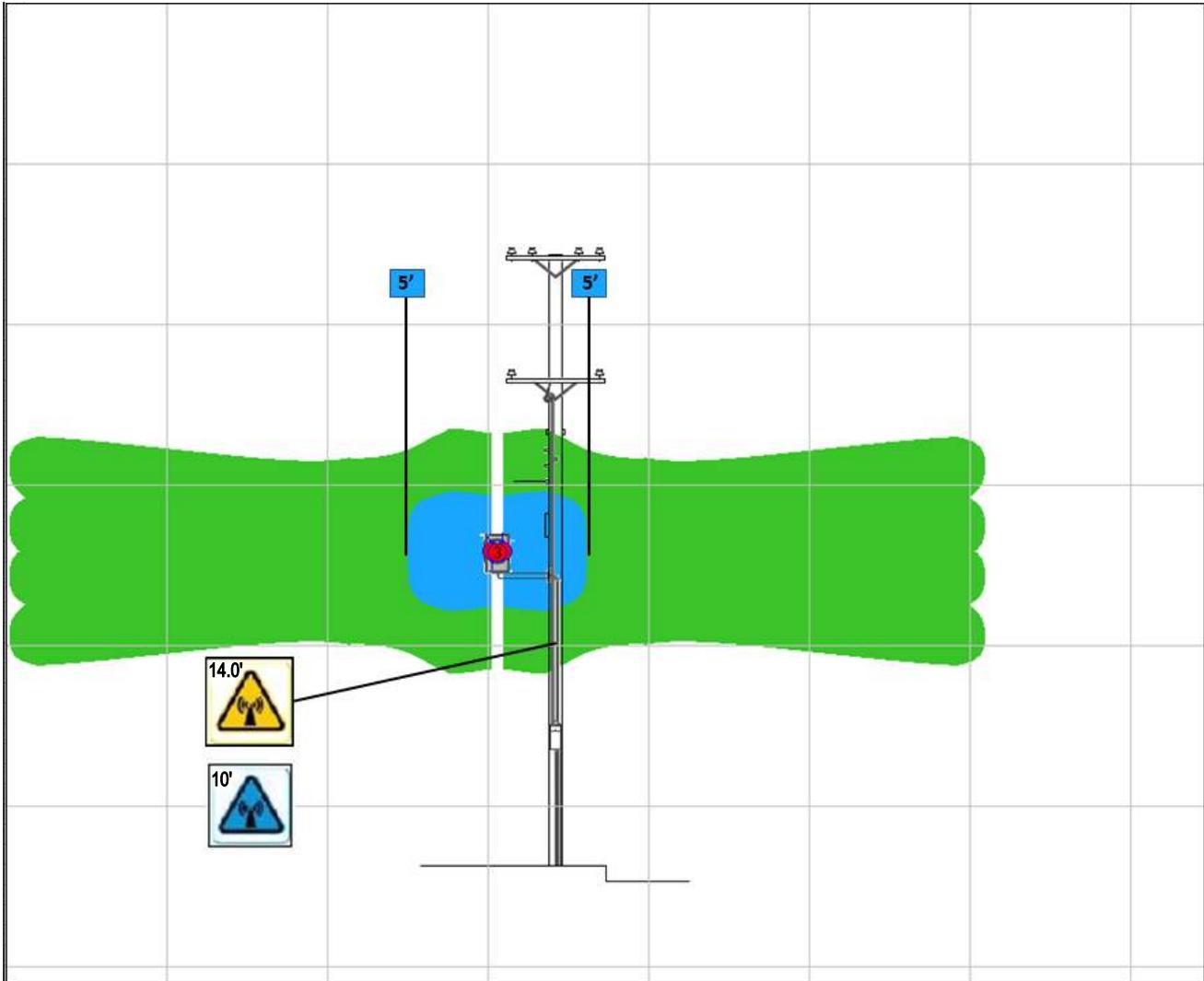
#	Operator	Make	Model	Freq (MHz)	Az (deg)	Tilt (deg)	HorBW (deg)	Ant (ft)	TPO (w)	Paths	Loss (db)	Ant Gain	Radiated Power (W)	RC AGL (ft)
1	Verizon	ERICSSON	SON_SM6705 CM1 02.07.22 28GHz VZW	28000	90	0	4	1.312	0.294401	4	0	26.14dBd	794.330 EIRP	19.917
2	Verizon	ERICSSON	SON_SM6705 CM1 02.07.22 28GHz VZW	28000	210	0	4	1.312	0.294401	4	0	26.14dBd	794.330 EIRP	19.917
3	Verizon	ERICSSON	SON_SM6705 CM1 02.07.22 28GHz VZW	28000	330	0	4	1.312	0.294401	4	0	26.14dBd	794.330 EIRP	19.917

No other nearby permits or sites found within 100 ft radius.



ELEVATION DETAIL

Predicted MPE depicted at the center of the 6 ft vertical zone that a person could occupy



GP Limit Exceeded at: 17' AGL
 Control #:100357
 Structure Type: Standard
 Antenna Rad. Center Height: 19.917'

NOTICE
POLE WORKERS
 There is an antenna operation high on this pole. Please follow guidance on signs near the antenna or call the number below.
 Call 888-832-0931

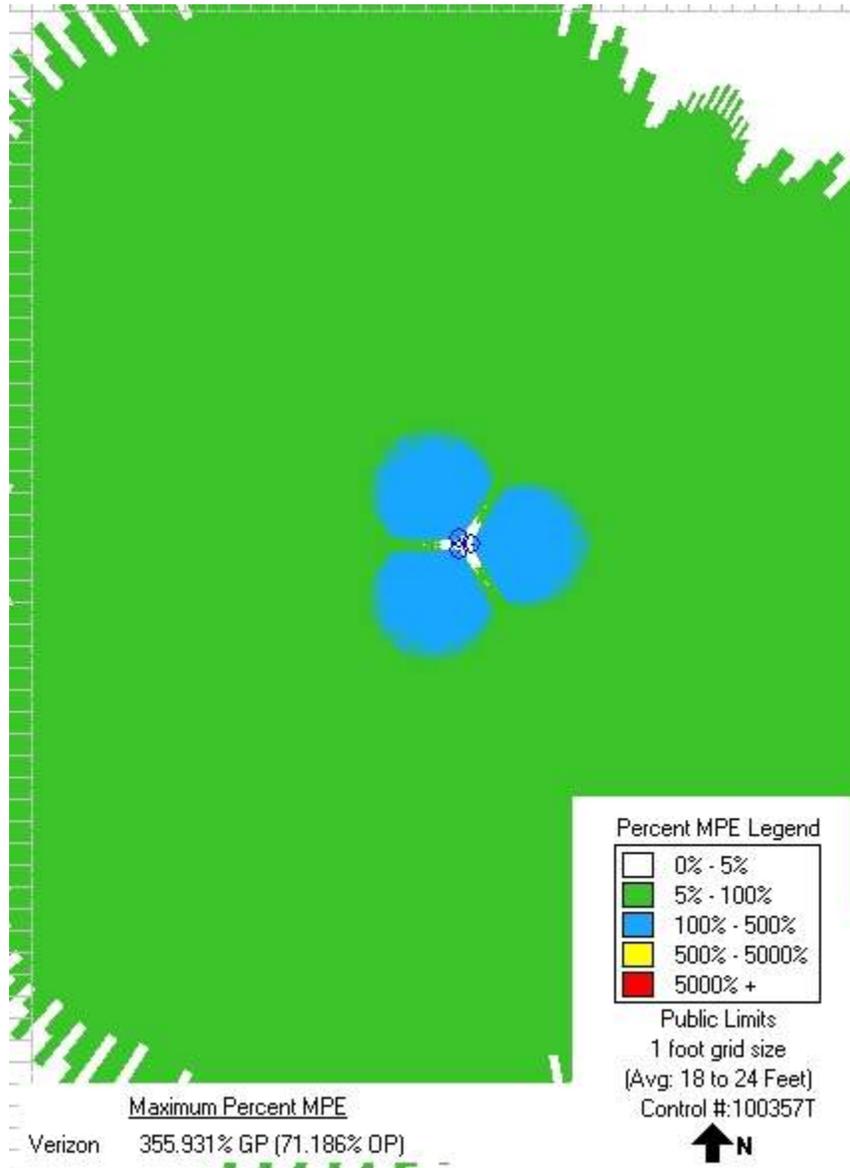
CAUTION
 Keep Back ____ FT From this Antenna. FCC RF Public Exposure Limits May Be Exceeded Within This Distance. Call 888-832-0931 for Instructions, Qualified Workers: FCC Occupational Limits May Be Exceeded Within This Distance.

Percent MPE Legend

White	0% - 5%
Green	5% - 100%
Blue	100% - 500%
Yellow	500% - 5000%
Red	5000% +

Public Limits
 10ft grid size
 (Elevation View)

TOP DOWN DETAIL



TOP DOWN DETAIL



GROUND LEVEL MPE BY RF EMITTER

The maximum ground level MPE along the azimuth of orientation for each RF emitter by band of operation is listed below. The computational approach is described in the Predictive Modeling section. The maximum MPE by operator and band is contributive to the cumulative ground level MPE summary table presented above.

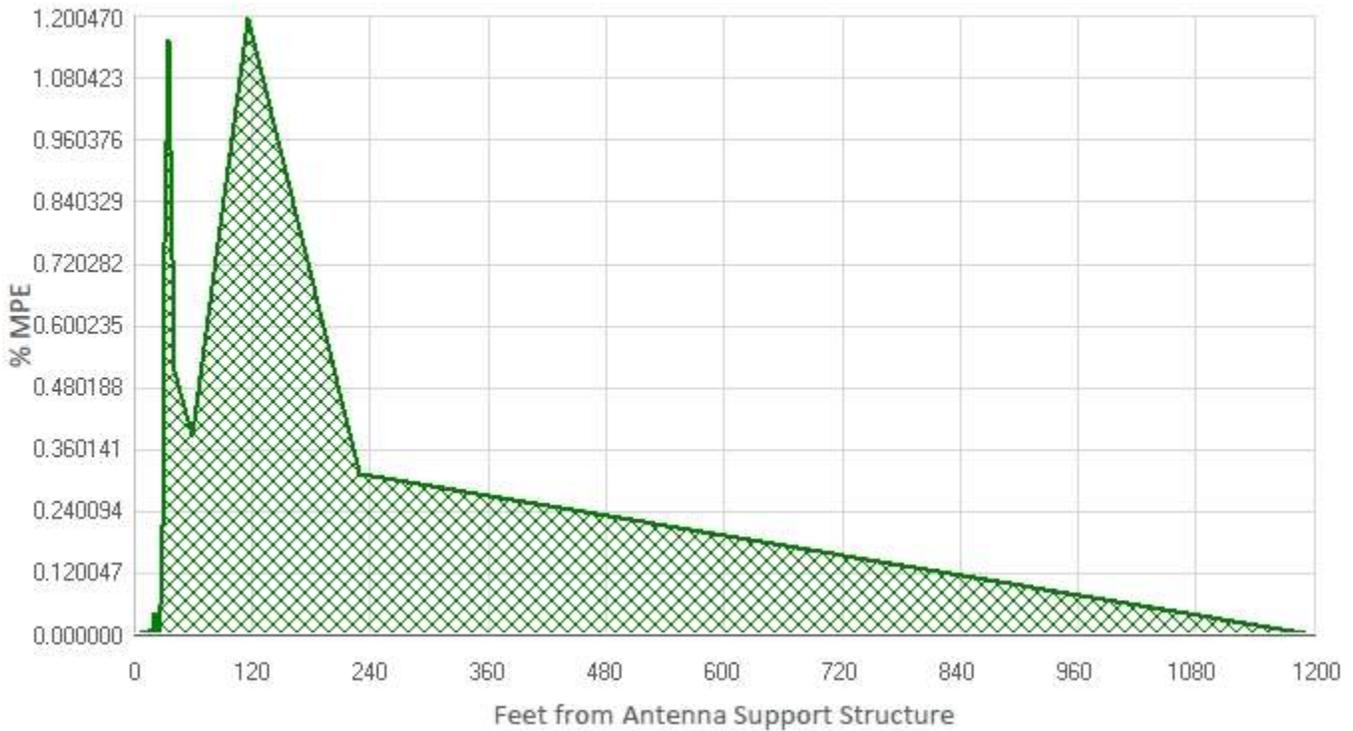
Verizon
CA_SF_SANMATEO_210M2
ERICSSON - SON_SM6705 CM1 02.07.22 28GHz VZW 90° Sector

Maximum Exposure Limit - 28000 MHz

Limit (GP): 1000.000 $\mu\text{W}/\text{cm}^2$

EiRP		Height		Downtilt	
(Watts)	794.330	(feet)	19.917	(Degrees)	0

Ground Level MPE as Percent of FCC General Population Limits



Maximum power density at ground level: 12.005 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Exposure Limit: 1.200 %

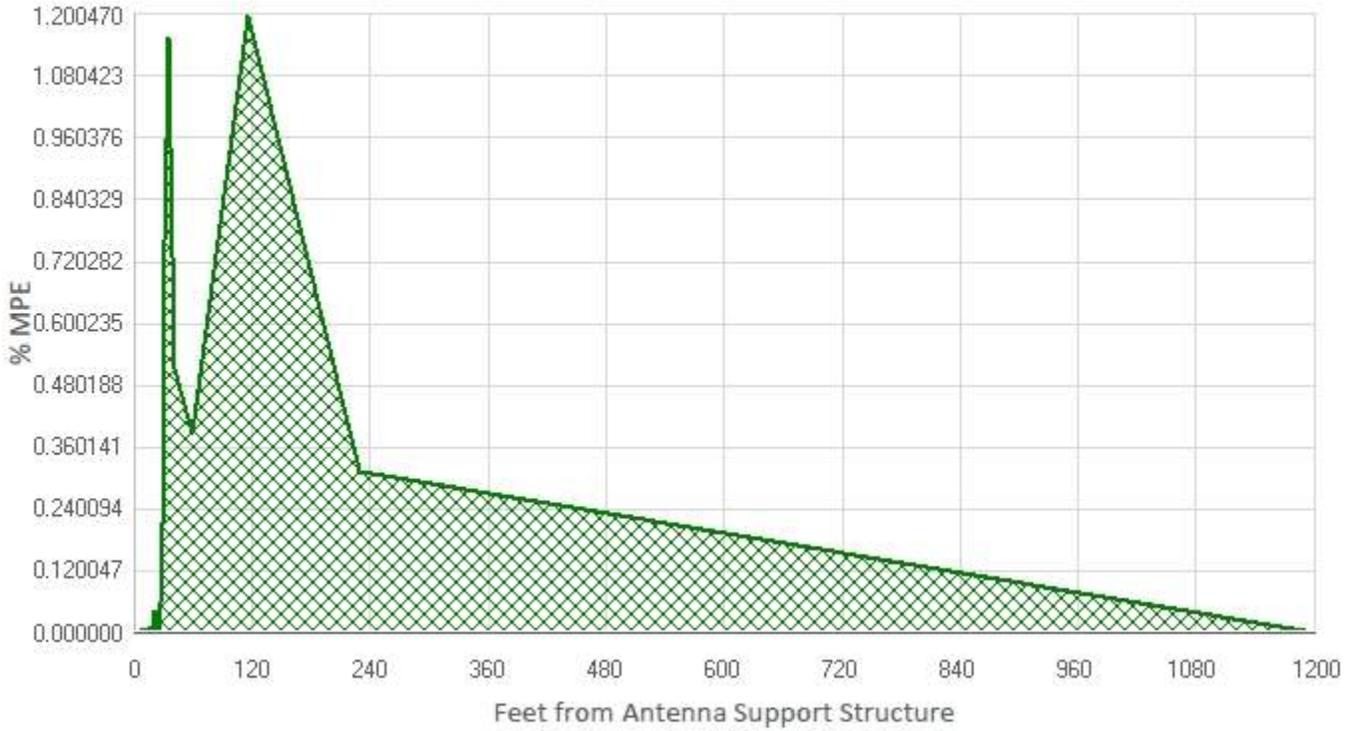
Verizon
CA_SF_SANMATEO_210M2
ERICSSON - SON_SM6705 CM1 02.07.22 28GHz VZW 210° Sector

Maximum Exposure Limit - 28000 MHz

Limit (GP): 1000.000 $\mu\text{W}/\text{cm}^2$

EIRP		Height		Downtilt	
(Watts)	794.330	(feet)	19.917	(Degrees)	0

Ground Level MPE as Percent of FCC General Population Limits



Maximum power density at ground level: 12.005 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Exposure Limit: 1.200 %

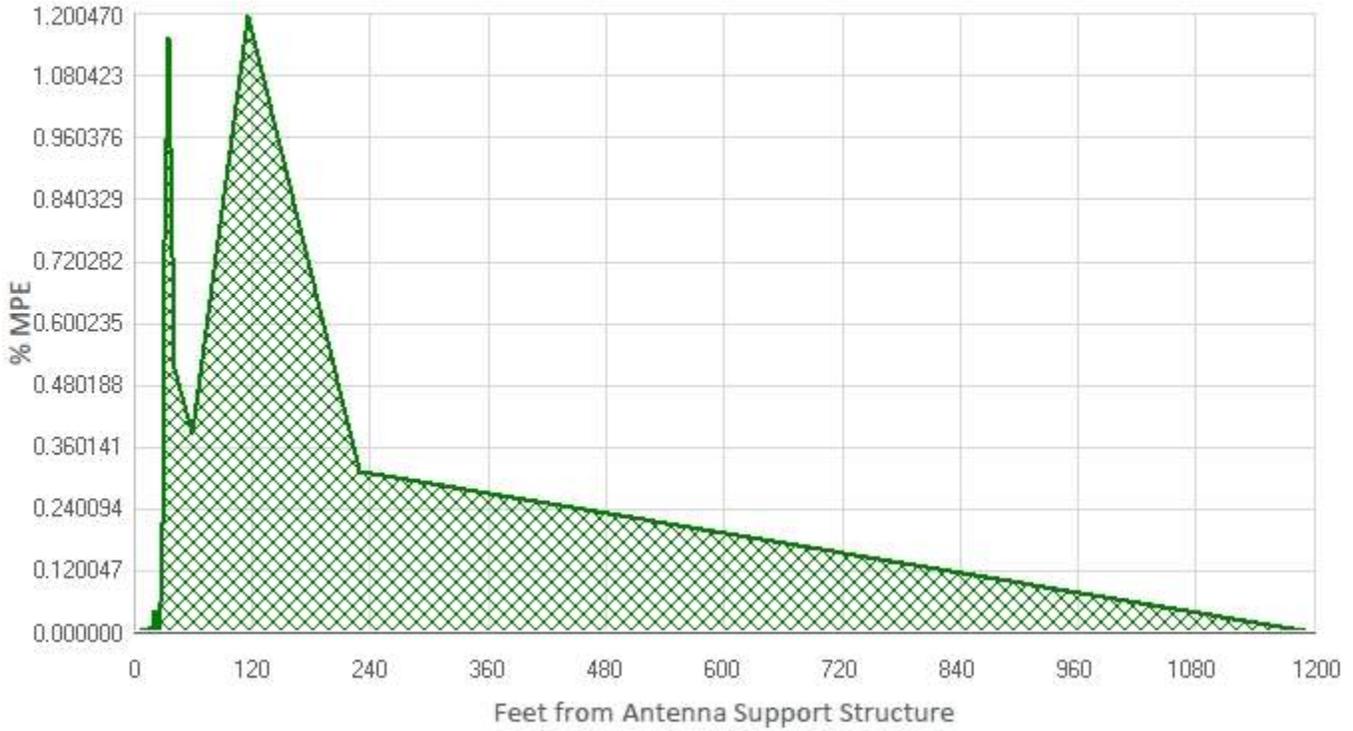
Verizon
CA_SF_SANMATEO_210M2
ERICSSON - SON_SM6705 CM1 02.07.22 28GHz VZW 330° Sector

Maximum Exposure Limit - 28000 MHz

Limit (GP): 1000.000 $\mu\text{W}/\text{cm}^2$

EiRP		Height		Downtilt	
(Watts)	794.330	(feet)	19.917	(Degrees)	0

Ground Level MPE as Percent of FCC General Population Limits



Maximum power density at ground level: 12.005 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Exposure Limit: 1.200 %

Noise Compliance Report

April 26, 2022



**CONSULTING
DESIGN
FIELD
ENGINEERING
SERVICES**

To whom it may concern,

I, Antonio C. Jakosalem (CA P.E. LIC. E15401) have reviewed the noise emission analysis of the Ericsson 6705 3-radio configuration cluster nodes in the City of San Mateo, by Jeffrey K. Pack dated April 6, 2022. I found it to be technically accurate and in compliance with the standards contained in Chapter 7.30 of the City of San Mateo Municipal Code, Ref. (a). I herewith certify that report to be correct, with my stamp and seal.

Please process Mr. Pack's report for permit review as if it was written by a P.E. Please call or email for questions.

Very truly yours,



Antonio C. Jakosalem, P.E
tony@acgeng.com

Principal

447 Sutter St, Ste. 516
San Francisco, CA 94108
415.660.5940 (TEL)
www.acgeng.com



April 6, 2022

Crown Castle
1 Park Place
Dublin, CA 94568

Subject: Noise Emission Analysis, Ericsson 6705 3-Radio Configuration
Cluster Node Sites, City of San Mateo, San Mateo County, CA

This report presents the results of a noise emission analysis of the Ericsson 6705 3-radio configuration cluster nodes in the City of San Mateo. The purpose of this analysis was to determine the minimum distances necessary from any cluster node installation to the nearest most noise sensitive property that will result in compliance with the standards contained in Chapter 7.30 of the City of San Mateo Municipal Code, Ref. (a).

Summary

The results of this analysis reveal that the minimum distance from the face of the nearest radio unit on a tilt bracket cluster system to a residential receiver location needs to be 21 inches. This is equivalent to 37 inches from the center of the pole.

Noise Standards - City of San Mateo Municipal Code

The noise standards of Chapter 7.30 of the City of San Mateo Municipal Code limits noise from stationary noise sources at noise sensitive receiver locations, such as residential land use. The applicable Code section is shown on the following page. The most stringent standard is the 50 dBA limit applied to nighttime noise generation in Noise Zone 1 and is used herein as the basis for this analysis.

Ref. (a) City of San Mateo Municipal Code, Chapter 7.30 – Noise Regulations, Subsection 7.3.040 –

7.30.030 DESIGNATED NOISE ZONES.

The properties hereinafter described are hereby assigned the following noise zones:

Noise Zone 1. All property in any single family residential zone (including adjacent parks and open space) as designated on the City's zoning map prepared pursuant to the provisions of Title 27, or any revisions thereto.

Noise Zone 2. All property in any commercial/mixed residential, multi-family residential, specific plan district or PUD as designated on the City's zoning map prepared pursuant to the provisions of Title 27, or any revisions thereto.

Noise Zone 3. All property in any commercial or central business district as designated on the City's zoning map prepared pursuant to the provisions of Title 27, or any revisions thereto.

Noise Zone 4. All property in any manufacturing or industrial zone as designated on the City's zoning map prepared pursuant to the provisions of Title 27, or any revisions thereto.

(Ord. No. 2004-16 § 1.)

7.30.040 MAXIMUM PERMISSIBLE SOUND LEVELS.

(a) It is unlawful for any person to operate or cause to be operated any source of sound at any location within the City or allow the creation of any noise on property owned, leased, occupied or otherwise controlled by such person, which causes the noise level when measured on any other property to exceed:

- (1) The noise level standard for that property as specified in Table 7.30.040 for a cumulative period of more than 30 minutes in any hour;
- (2) The noise level standard plus five dB for a cumulative period of more than 15 minutes in any hour;
- (3) The noise level standard plus 10 dB for a cumulative period of more than five minutes in any hour;
- (4) The noise level standard plus 15 dB for a cumulative period of more than one minute in any hour; or
- (5) The noise level standard or the maximum measured ambient level, plus 20 dB for any period of time.

(b) If the measured ambient level for any area is higher than the standard set in Table 7.3.40, then the ambient shall be the base noise level standard for purposes of subsection (a)(1) of this section. In such cases, the noise levels for purposes of subsections (a)(2) through (a)(5) of this section shall be increased in five dB increments above the ambient.

**Table 7.30.040
Noise Level Standards**

Noise Zone	7:00 am to 10:00 pm	10:00 pm to 7:00 am
Noise Zone 1	60 dBA	50 dBA
Noise Zone 2	60 dBA	55 dBA
Noise Zone 3	60	60
Noise Zone 4	70	65

* Source: Adapted from "The Model Community Noise Control Ordinance," Office of Noise Control, California Department of Health.

(Ord. No. 2004-16 § 1.)

Since the radios are expected to operate continuously, the "more than 30 minutes per hour" standard is applicable.

Equipment and Analytical Baseline Descriptions

The planned radios are Ericsson 6705 units that are cooled using convection cooling rather than fans. The noise level specification is no higher than 6.0 Bels of Sound Power. 6.0 Bels equals 60 decibels. The Sound Power rating must be converted to Sound Pressure and the emitted sound spectrum must be converted to A-weighted decibels. Sound Pressure must also have a distance associated with it.

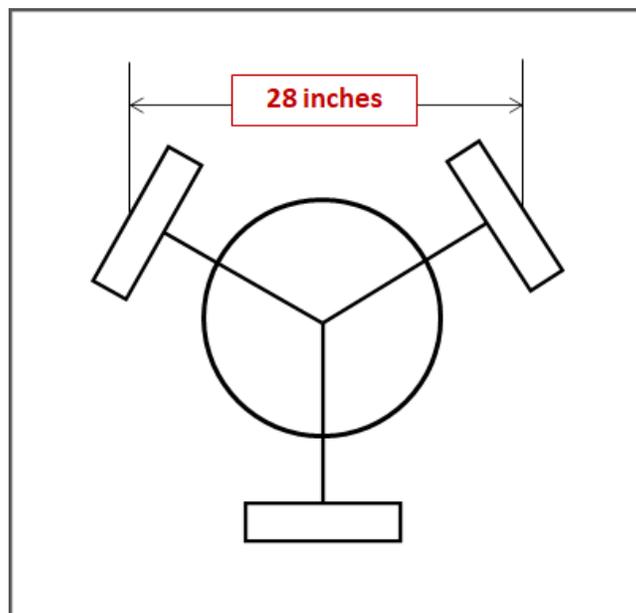
The A-weighted Sound Pressure Level is 53.5 dBA @ 12 in.

For the purposes of this study, we are using 53.5 dBA at 12 in. from the center of the unit as the worst-case noise emission reference level. In addition, we are assuming that the 53.5 dBA sound level is emitted equally in all directions around the unit as there are no other data available to suggest otherwise. The manufacturer's data sheet is attached to this report in Appendix A.

There is one cluster node pole installations used. The installation will have three radios typically spaced equally around the perimeter of the pole forming an equilateral triangle. The angle between each unit is 60° . The distance from the face of one unit to the face of another unit is 28 in. This distance is the “chord” of a circumcircle about the triangle.

The tilt bracket mount cluster is arranged such that the diameter of the circle created by the radios is 32 inches.

Below is a diagram of the typical pole mounting systems provided by the project sponsor. Note that the circle shown in the graphic represents the pole, not the circle created by the faces of the units along that circle’s perimeter, which is used for the calculations herein



The most noise impacted location would be along a line normal to one of the three radios. The distances from the two farther radios would be equidistant to the receiver location that is along the normal path.

Calculations

Noise from a stationary source reduces at a rate of:

$$\Delta\text{dB} = 20\log_{10}(r_1/r_2) \text{ where, } r_x = \text{distance.}$$

For a doubling of the distance, $r_1 = 2$ and $r_2 = 1$. Thus, $20\log_{10}(2/1) = 6$.

Note that sound levels in the human environment are described using A-weighted decibels, notated as dBA. A-weighting is a frequency filtering network applied to noise data to replicate the human response to various frequencies. When describing or reporting decibels in terms of change (increases, decreases), the A is dropped from the nomenclature as the weighting network is irrelevant in the mathematics of decibels.

Decibels are added using the formula:

$$dB_{\text{sum}} = 10\log_{10}(10^{(SL1/10)} + 10^{(SL2/10)} \dots + 10^{(SLx/10)})$$

For example, 45.0 dB + 42.0 dB = 46.8 dB.

Because of the nature of sound, noise and the environment, decibels are usually rounded to a whole value as 10ths of a decibel are negligible. A person can barely detect a difference in 2 decibels and usually only under controlled situations.

The calculation methodology uses the following descriptors:

The angle between two radios is 60°.

The distance from the nearest radio (Radio 1) to the receiver (point A) is line segment A.

The distances from Radio 2 or Radio 3 to Point A are designated as D.

The radius of the circle (radio unit to center of pole) is r.

The distance from the center of the circle/pole to the chord (straight line) between Radio 2 and Radio 3 is B.

The angle subtended by the radius and the chord is 30°.

$$B = r(\sin 30^\circ)$$

$$C = \frac{1}{2} \text{ chord length between Radios 2 and 3} = r(\cos 30^\circ) \text{ or } 14 \text{ in.}$$

$$D = \text{Sqrt}[(A+r+B)^2 + (C)^2]$$

The total sound level from three radio units will be the decibel sum of the sound levels at A + D + D.

The numerical values for mounting system are:

Tilt Bracket

$$r = 16.0'' \quad B = 8.0'' \quad C = 14.0'' \quad D \text{ is a function of } A.$$

Example:

If A = 12”, D = 43.3”. The Radio 1 sound level is 53.5 dBA. The sound level for Radios 2 and 3 are 43.3 dBA each. The combined sound level is 54.3 dBA.

$$D = \text{Sqrt}[(12+16+8)^2 + (14)^2] = 38.6”$$

$$A = 12”, \text{ Sound Level} = 53.5 \text{ dBA}$$

$$D_{\text{Radio 1}} = 38.6”, \text{ Sound Level} = 53.5 + 20\log_{10}(12/38.6) = 43.3$$

$$D_{\text{Radio 2}} = 38.6”, \text{ Sound Level} = 53.5 + 20\log_{10}(12/38.6) = 43.3$$

Combined Sound Level = 53.5 dB + 43.3 dB + 43.3 dB, =
 $10\log_{10}(10^{(53.5/10)} + 10^{(43.3/10)} + 10^{(43.3/10)}) = 54.3 \text{ dB}$. In terms of environmental noise, the sound level is 54 dBA.

Again, reporting decibels in whole numbers is acceptable.

Table I, below, provides the calculations of the distances from Radio 1 (nearest unit to the receiver) to result in a combined sound level of 50 dBA for compliance with the noise standards of the City of San Mateo.

TABLE I		
Ericsson 6705 Radio Cluster Noise Analysis		
Tilt Bracket Mount System		
	Sound Level dBA	Distance (inches)
Radio Reference	6.0 Bels Sound Power	0
Radio Reference	53.5	12
Radio 1	49	21
Radio 2	42	47
Radio 3	42	47
Combined	50	

As shown in Table I, the minimum distance from the nearest radio to the receiver location in a tilt bracket mount system shall be 21 inches. The distance to the center of the pole would be this distance plus the radius, which equals approximately 37 inches or 3’1”.

When the clusters are mounted high on a pole and the receiver location is at a lower elevation, these minimum distances can be applied to the angled distance between the bottom of the radios and the receiver location.

Conclusion

This report presents the results of a noise emission analysis of the Ericsson 6705 radio configuration cluster nodes for various installations in the City of San Mateo.

The installation of the 3-radio configuration assemblies analyzed in this study at the minimum distances shown in Table I will result in sound levels no higher than 50 dBA, which will be in compliance with the City of San Mateo Noise Ordinance standard for noise sensitive receivers.

Based on the information provided by Crown Castle, technical data and the analysis presented in this report, it is our professional opinion that the proposed design should, under the conditions noted above, comply with the applicable City of San Mateo Noise Ordinance.

If you need any additional information or would like an elaboration on this report, please please contact the appropriate Crown Castle's representative.

Sincerely,

EDWARD L. PACK ASSOC., INC.

A handwritten signature in blue ink, appearing to read "Jeffrey K. Pack", is written over a horizontal line.

Jeffrey K. Pack
President

Attachments: Appendix A

APPENDIX A

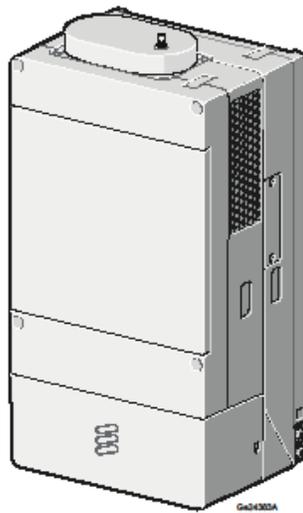
Ericsson 6705 Data Sheet



Streetmacro Description

Streetmacro 6705

Description



386/1551-LZA 781 0881/1 Uen B



2.3.1 Operating Environment

The following is a list of values for the Streetmacro unit in normal operating environment:

Temperature range	-40°C through +55°C
Relative humidity	5–100%
Absolute humidity	0.26 g/m ³ through 40 g/m ³
Maximum temperature change	1°C/min

2.3.2 Acoustic Noise

The unit may emit low levels of acoustic noise during operation.

The acoustic noise depends on the ambient temperature.

Table 6 Sound Power Level

Temperature (°C)	Sound Power Level (Bel)
+55	< 6.0

2.3.3 Vibration

This section describes the unit tolerance to vibrations.

The unit operates reliably during seismic activity as specified by test method IEC 60 068-2-57 Ff.

Maximum level of RRS	50 m/s ² within 2–5 Hz for DR=2%
Frequency range	0.3–50 Hz
Time history signal	VERTEQ II

The unit operates reliably during random vibration as specified by test method IEC 60 068-2-64 Fh method 1.

Random vibration frequency	2 Hz-200 Hz
Random vibration, X, Y axis	0.3 m ² /s ³
Random vibration, z axis	0.2 m ² /s ³

The unit operates reliably during shock as specified by test method IEC 60 068-2-27 Ea.

JEFFREY K. PACK

ACOUSTICAL CONSULTANT

Curriculum Vitae

EDUCATION

Berklee College of Music, Boston, Massachusetts, 1984
Bachelor of Music; Professional Music

University of Southern California, Los Angeles, 1981
Bachelor of Science; Geological Sciences

West Valley College, Saratoga, California, 1979
Associate in Science; Science and Mathematics

EXPERIENCE

7/81 to Present President and Principal Consultant
Edward L. Pack Associates, Inc.
San Jose, California

Mr. Pack has experience in architectural, environmental, and industrial acoustics, including interior design of office buildings, hospitals, medical buildings, hotels, recording studios, auditoriums and residences, HVAC noise control, mechanical equipment enclosures, roadway and railroad noise barriers, transportation noise assessments and industrial facility noise control. Transportation noise assessments involve the analysis of automobile, truck, railroad and aircraft noise as they impact residential, commercial and industrial land uses. His responsibilities are involved with both the administrative and technical aspects of Edward L. Pack Associates and his duties also include presentations at public hearings, expert witness testimony, conducting seminars in acoustics, directing and monitoring construction corrective work in residential and commercial buildings and the design and construction direction of noise enclosures for mechanical equipment. Measurements, analyses, and evaluations are made to develop the specific recommendations required for the correction of noise and vibration problems.

He has extensive experience in the field of interior acoustics associated with auditoriums, multi-purpose rooms, gymnasiums, classrooms, churches, public meeting halls, TV and audio/visual recording studios, hospitals, and other acoustically critical spaces. Mr. Pack is an expert in architectural acoustics designing noise isolating walls, windows and floor/ceilings, particularly in multi-family housing for compliance with State and local building codes.

Jeffrey K. Pack, (cont'd)

5/86 to
5/94

President

The Techtonics Company
Sunnyvale, California

Mr. Pack designed, developed, and manufactured acoustic and electronic drum triggering devices, acoustic stringed instrument transducers, including piezoelectric pick-ups for guitars, violins, violas, cellos and basses from inception through final shipping. As President, duties included management of production personnel, purchasing, sales, marketing, and advertising. Retail stores and distributors carrying The Techtonics Company products are located worldwide.

2/93 to
3/94

Adjunct Professor

Cogswell Polytechnical College
Cupertino, California

Adjunct professor of acoustics, which included teaching noise control engineering, audio engineering, architectural acoustics, and sound reinforcement system design.

7/84 to
12/87

Owner

Mirage Music Technologies
San Jose and Hermosa Beach, California

Mr. Pack designed and constructed speaker cabinets, taught music, designed sound reinforcement systems, worked as a DJ for private and public events, worked as a performing musician.

His prior experience includes teaching assistant for Oceanography 210 at USC, 4 years as private drum and percussion instructor, conducting seminars in acoustics and noise control, and in music education as the South Bay Area Alumni Representative for the Berklee College of Music. Other engineering experience included geologic structure mapping, mineralogy, and geologic engineering.

AFFILIATIONS

Acoustical Society of America
American Institute of Physics
Audio Engineering Society
National Council of Acoustical Consultants
Sigma Gamma Epsilon Geological Society

Project Purpose and Technical Objectives

Crown Castle Fiber LLC

Project Narrative

Application ID No. CA_SF_SANMATEO_210M2

I. INTRODUCTION

This Project Narrative is submitted to the City of San Mateo in support of its applications for the installation of wireless telecommunications facilities pursuant to City of San Mateo Municipal Code Chapter 10 Article 18, Wireless telecommunications facilities within the public right-of-Way.

a. Crown Castle

Crown Castle Fiber LLC (“Crown Castle”) provides wireless carriers with the infrastructure they need to keep people connected and business running. With approximately 40,000 towers and 18,000 small cell nodes supported by approximately 60,000 miles of fiber, Crown Castle is the nation’s largest provider of shared wireless infrastructure, with a significant presence in the top 100 US markets.

Crown Castle’s small cell network (SCN) represents the state-of-the-art in wireless telecommunications network technology. It is a low-profile telecommunications system capable of delivering wireless services to customers of multiple carriers such as Verizon, AT&T, Sprint, Metro PCS and T-Mobile. The elements of Crown Castle’s SCN are small-scale, as individual SCN facilities can be attached to standard sign poles that take up little space in the public rights-of-way (“ROW”) or, where feasible, onto existing elements in the ROW such as streetlights, traffic signals, and wooden utility poles. Crown Castle SCN therefore allows one aesthetically unobtrusive system to take the place of multiple antennas or macro-sites constructed by individual carriers -- a single, streamlined solution that diminishes the prospect of multiple carrier-constructed antenna facilities servicing a given area. Put another way, Crown Castle SCN permits many carriers to provide their services over one system with only a single series of vertical elements.

b. The Proposed Project

i. The Network.

Crown Castle proposes developing its SCN network with approximately one-hundred and ninety-seven new (197) antenna nodes in the ROW (the “Project”) in the City of San Mateo (“Network”). All proposed nodes qualify as Small Wireless Facilities as defined in 47 C.F.R § 1.6002(1). Specifically, this application proposes one antenna node submitted to the City of San Mateo for a Wireless Permit by the Department Public Works. Completion of the Project will provide needed wireless broadband and communications services and the addition of critical network capacity to throughout portions of the City of San Mateo (“Service Area(s)”). Where feasible, each of the 197

nodes comprising the SCN will utilize existing vertical elements in the ROW, including utility poles and city-owned Streetlights.

Each SCN node receives an optical signal from a central hub and distributes the signal to the antenna nodes via fiber optic cable. The optical signal is then propagated from the SCN nodes in the form of radio frequency transmissions. Distribution of signal from the hub to the low-power, low-profile antenna nodes, allows carriers to offload service capacity and provide wireless communications and data services to areas otherwise difficult to reach with conventional wireless telecommunications facilities.

By using existing streetlight, traffic signal poles, and utility pole attachments whenever possible, the Project seeks to reduce the addition of new vertical elements, thereby minimizing intrusions into the right-of-way (“ROW”).

ii. *Network Facility Features.*

A majority of the proposed sites consist of the node units mounted directly to a streetlight pole with the attachment of antennas and radios in a shroud on the side of the pole. Fiber optic connections and power connections will be brought underground to these facilities. The total height of the pole mounted facilities, measured from grade level, is typically up to 40’. In addition, the nodes located on streetlights require an underground pull box containing fiber optic cable connection. The fiber converters convert digitalized spectrum received from the hub into RF signals emitted from the node to the Service Area.

II. APPLICABLE LEGAL STANDARDS.

Crown Castle presents this analysis pursuant to the City of San Mateo Municipal Code. Specifically, this narrative demonstrates the demands and rationale that led to the selection of a particular location and design for the telecommunication facilities proposed herein.

a. Applicable State Law.

i. *Public Utilities Code Sections 7901 and 7901.1*

Crown Castle is a “competitive local exchange carrier” (“CLEC”). CLECs are public utilities and therefore have a special status under state law. By virtue of the California Public Utilities Commission’s (“CPUC”) issuance of a certificate of public convenience and necessity (“CPCN”), CLECs have authority under state law to “erect poles, posts, piers, or abutments” in the ROW subject only to local municipal control over the “time, place and manner” of access to the ROW.¹

The CPUC has issued a CPCN (attached as Exhibit D) authorizing Crown Castle to construct the Network pursuant to its regulatory status under state law. Crown Castle’s special regulatory status as a CLEC gives rise to a vested right to use the ROW in the City to “construct ... telephone lines

¹ Pub. Util. Code, §§ 1001, 7901; 7901.1; see *Williams Communication v. City of Riverside*, 114 Cal. App. 4th 642, 648 (2003) [upon obtaining a CPCN, a telephone corporation has “the right to use the public highways to install [its] facilities.”].

along and upon any public road or highway, along or across any of the waters or lands within this State” and to “erect poles, posts, piers, or abutments for supporting the insulators, wires, and other necessary fixtures of their lines, in such manner and at such points as not to incommode the public use of the road or highway[.]”² The nature of the vested right was described by one court as follows:

... “[I]t has been uniformly held that [section 7901] is a continuing offer extended to telephone and telegraph companies to use the highways, which offer when accepted by the construction and maintenance of lines constitutes a binding contract based on adequate consideration, and that the vested right established thereby cannot be impaired by subsequent acts of the Legislature. [Citations.]” ...

Thus, telephone companies have the right to use the public highways to install their facilities.³

While Public Utility Code section 7901.1 grants local municipalities the limited “right to exercise reasonable control as to the time, place, and manner in which roads, highways, and waterways are accessed [.]” such controls cannot have the effect of foreclosing use by Crown Castle of the ROW or otherwise prevent Crown Castle from exercising its right under state law to “erect poles” in the ROW. That is because “the construction and maintenance of telephone lines in the streets and other public places within the City is today a matter of state concern and not a municipal affair.” (Williams Communication v. City of Riverside, supra, 114 Cal.App.4th at p. 653.)

On the basis of Crown Castle’s status as a CLEC, and its attendant rights to the ROW, the Network is designed as a ROW system. With respect to the siting and configuration of the Network, the rights afforded under PUC sections 7901 and 7901.1 apply. Crown Castle reserves its rights under section 7901 and 7901.1, including, but not limited to, its right to challenge any approval process, that impedes or infringes on Crown Castle’s rights as a CLEC.

ii. Government Code Section 50030.

Government Code section 50030 also applies to telephone corporations seeking to install their facilities in the public rights-of-way. That section provides that a city cannot require payment for entry into its ROW beyond what is necessary to address the “reasonable costs of providing the service for which the fee is charged.”⁴ Section 50030 constitutes a legislative determination that any fee or exaction that exceeds the cost of addressing actual impacts arising from the construction of a telephone network is unlawful because it fails to satisfy the nexus and rough proportionality requirements under the dual Supreme Court cases of *Nollan v. California Coastal Commission*, 483 U.S. 825 (1987), and *Dolan v. City of Tigard*, 512 U.S. 374 (1994).

iii. Government Code Section 65964.1.

² Pub. Util. Code, § 7901.

³ *Williams Communications v. City of Riverside*, supra, 114 Cal.App.4th at p. 648 quoting *County of L.A. v. Southern Cal. Tel. Co.* (1948) 32 Cal.2d 378, 384 [196 P.2d 773].

⁴ *Williams Communications v. City of Riverside*, supra, 114 Cal.App.4th at p. 648.

Government Code section 65964.1 became effective on January 1, 2022. Pursuant to this provision, an application for a new wireless facility is deemed approved if: (a) the city --including a charter city -- or county fails to approve or disapprove the application within the time periods established in the Federal Communications Commission’s (“FCC”) 2018 Declaratory Rulings (33 FCC Rcd 9088 (14) (60 days for collocation of small wireless facilities and 90 days for stand-alone small wireless facilities; 150 days for non-small wireless facilities), and (b) all public notices regarding the application have been provided. (Gov. Code, § 65964.1, subd. (a).) The new statute also contains an express finding that wireless telecommunications facilities are a matter of statewide concern, not a “municipal affair” as that term is used in section 5 of Article XI of the California Constitution. (Id., § 65964.1, subd. (e).)

b. Applicable Federal Law.

i. *The Federal Telecommunications Act.*

The Telecommunications Act of 1996 (“Telecom Act”) governs the deployment of telecommunications infrastructure and was “intended to remove all barriers to entry in the provision of telecommunications services.”⁵ Sections 253 and 332 of the Telecom Act speak directly to Congress’s determination that certain state and local regulations are unlawful.⁶ Section 253 represents a “broad preemption of laws that inhibit competition.”⁷ Section 253(a) provides, in relevant part:

No State or local statute or regulation, or other State or local legal requirement, may prohibit or have the effect of prohibiting the ability of any entity to provide any interstate or intrastate telecommunications service. 47 U.S.C. § 253(a).

Similarly, section 332(c)(7) states:

The regulation of the placement, construction, and modification of personal wireless service facilities by any State or local government or instrumentality thereof—(I) shall not unreasonably discriminate among providers of functionally equivalent services; and (II) shall not prohibit or have the effect of prohibiting the provision of personal wireless services. 47 U.S.C. § 332(c)(7)(B)(i).

⁵ *In the Matter of Accelerating Wireless Broadband Deployment by Removing Barriers to Infrastructure Investment*, Declaratory Ruling and Third Report and Order, WT Docket Nos. 17-79, 17- 84, FCC 18-133, ¶ 14 (rel. Sept. 27, 2018) (“*Removing Barriers*”) (citing congressional conference report on the Telecom Act).

⁶ *Id.* at ¶15; Section 253(a) addresses “any interstate or intrastate telecommunications service,” while section 332(c)(7)(B)(i)(II) addresses “personal wireless services”—a type of telecommunications service (wireless). *In the Matter of Accelerating Wireless Broadband Deployment by Removing Barriers to Infrastructure Investment*, Declaratory Ruling and Third Report and Order, WT Docket Nos. 17-79, 17-84, FCC 18-133, ¶ 34 (rel. Sept. 27, 2018) (citing 47 U.S.C. §§ 253(a), 332(c)(7)(B)(i)(II) (“*Removing Barriers*”).

⁷ *Removing Barriers*, at ¶15 (citing *Puerto Rico Tel. Co. v. Telecomm. Reg. Bd. of Puerto Rico*, 189 F.3d 1, 11 n.7 (1st Cir.1999)).

Section 332 further provides as follows:

A State or local government or instrumentality thereof shall act on any request for authorization to place, construct, or modify personal wireless service facilities within a reasonable period of time after the request is duly filed with such government or instrumentality, taking into account the nature and scope of such request. 47 U.S.C. § 332(c)(7)(B)(ii).

Any decision by a state or local government or instrumentality thereof to deny a request to place, construct, or modify personal wireless service facilities shall be in writing and supported by substantial evidence contained in the written record. 47 U.S.C. § 332(c)(7)(B)(iii).

As noted above, the Telecom Act prohibits localities from taking actions (or not acting) that either prohibit or have “the effect of prohibiting the provision of” telecommunications services and personal wireless service. In 2018, the Federal Communications Commission (“FCC”) declared that the proper standard for determining whether a state or local requirement has the effect of prohibiting service and violates sections 253 and 332 is the “materially inhibit” standard articulated in the FCC’s 1997 *California Payphone* decision.⁸ Under that decision, a state or local law has the improper effect of prohibiting the provision of telecommunications services if it “materially inhibits a provider’s ability to engage in any of a variety of activities related to its provision of a covered service.”⁹ “This test is met not only when filling a coverage gap but also when densifying a wireless network, introducing new services or otherwise improving service capabilities.”¹⁰ In other words, “a state or local legal requirement could materially inhibit service in numerous ways[,]” including “materially inhibiting the introduction of new services or the improvement of existing services.”¹¹

In addition to the above, other FCC enactments and policies also guide local governmental actions, including the following:

- (1) The “Shot Clock” Rule: On November 18, 2009, the Federal Communications Commission (“FCC”) adopted the “Shot Clock” Rule, placing strict time limits on local governments to act on applications for the siting of wireless telecommunications facilities. The “Shot Clock” Rule was intended to “promote[] deployment of broadband and other wireless services” by “reducing delays in construction and improvement of wireless networks.”
- (2) The Updated “Shot Clock” Rule: In 2018, the FCC revisited the 2009 “Shot Clock” Rule. Among other findings and

⁸ *Removing Barriers*, at ¶¶ 10, 31.

⁹ *Id.*, at ¶ 37.

¹⁰ *Id.*

¹¹ *Id.*

rulings, the FCC shortened the “Shot Clock” timeframe during which local governments must act on applications for the siting of small wireless telecommunications facilities, restricted the fee rates jurisdictions may lawfully charge for small wireless telecommunications facilities, and established a new remedy for violations of the “Shot Clock” Rule. Further, the FCC clarified that jurisdictions act solely within their regulatory capacity when dictating the terms of access to their public rights-of-way and instituted procedures for processing applications. The following year, in its decision in *City of Portland v. United States*, No. 18-72689, (9th Cir. 2020), the Ninth Circuit Court confirmed all the preceding FCC findings.

III. JUSTIFICATION

As discussed more fully below, the Service Area described prior currently experiences a degradation in service due to capacity limitations in wireless telecommunications coverage. To bolster this degradation in service and/or capacity, Crown Castle proposes small wireless facility nodes to support the degradation in this area. As a CLEC entitled to ROW access, Crown Castle construct its systems in the ROW. On that basis and during the network planning phase, Crown Castle examines locations potentially available for siting within the ROW. The analysis below demonstrates the reasons behind Crown Castle’s proposal for small wireless facilities and their placement in the locations specified in the applications.

a. Height of the Proposed Facilities.

The antenna heights and locations of the Small Cell Site nodes were chosen to provide the minimum signal level needed to meet critical coverage and/or capacity needs in the Service Area. Despite the technical limitations of a low-profile system, Crown Castle seeks to maximize the coverage of each node location, since maximization of the node performance equates to a lower overall number of facilities for the Network. Accordingly, each location was chosen to provide an effective relay of signal from the adjacent node and nearby base station, so that ubiquitous coverage and capacity of the minimum signal level is provided throughout the Service Area with the minimum number of nodes.

b. Location of Proposed Facilities.

The selected node locations maximize the RF coverage of the node and minimize interference/overlap with the other nodes of the system, resulting in a lower overall number of facilities for the Network and a less obstructive system. Each node provides an effective relay of signal from the adjacent node, so that ubiquitous coverage is provided throughout the Service Area. Because each node is locationally dependent on the other nodes of the Network, moving a node

too far from its proposed location will result in an inability to meet coverage objectives and thereby impair the Network, rendering relocation technically infeasible. In selecting node locations, Crown Castle also sought out use of existing utility, streetlight, and street sign pole sites that could serve as a potential host site for an alternative location.

c. Small Wireless Facility Sites

Apart from the siting considerations described above, Small Wireless Facilities are inherently unobtrusive by design. Small Wireless Facilities were developed as a smaller-scale solution to, and in support of, the larger macro-site or cell tower. It therefore represents a significant technological advance in the development of smaller profile wireless transmission devices. As devices shrink in size, they also, necessarily, shrink in power. Accordingly, more facilities are needed, and such facilities must be located closer to the user. The proposed nodes are designed to be smaller scale and lower power to allow them to integrate more easily into their surroundings.

The proposed facilities combine a smaller scale product with state-of-the-art technology that allows for multiple carriers to provide service from the node. The nodes are designed to blend into the existing elements of the ROW. They feature narrow-profile poles and minimal equipment. Each facility also will be designed to blend with existing features in the road. Crown Castle's network of supports coverage by offloading capacity from the existing surrounding (macro) sites while also reducing impact to the ROW in the following manner:

- (1) Crown Castle Small Cell Site node utilizes the latest in wireless infrastructure technology, incorporating smaller, low-power facilities instead of using larger, more obtrusive cell towers;
 - (2) Crown Castle Small Cell Site node utilizes the ROW, thereby avoiding intrusions into private property or undeveloped sensitive resource areas;
 - (3) Crown Castle Small Cell Site allows for collocation by multiple carriers, thereby avoiding proliferation of nodes;
 - (4) Crown Castle Small Cell site strikes a balance between antenna height, capacity and coverage in order to minimize visual impacts;
 - (5) Crown Castle Small Cell Site carefully spaces the nodes to effectively relay signal with a minimum number of node locations; and
 - (6) Crown Castle Small Cell Site seeks to utilize existing vertical elements in the ROW, such as utility poles and street light poles, thereby minimizing the net number of vertical intrusions in the ROW.
- d. Health and Safety/FCC Compliance.

The FCC has preempted the field of compliance with RF emission standards. Moreover, section 47 U.S.C. 332(c)(7)(B)(iv) preempts local and state governments from regulating the siting of wireless telecommunications facilities on the basis of the perceived health effects of RF emissions. Nevertheless, the Network, and all equipment associated with the Network, complies with all applicable FCC RF emission standards. A demonstration of the Network's compliance with applicable FCC RF emission standards is enclosed with the application and marked as "Attachment 07 - RF Compliance Report".

e. Selection Criteria for Each Node Site.

Given the low profile of the nodes, and the resultant limitations of such a low-profile system, Crown Castle seeks to maximize capacity off load coverage of each node location because maximization of the node coverage equates to a lower overall number of facilities for the network and a less incursive system. Each node is locationally dependent on the other nodes of the Network. Accordingly, each location was specifically chosen to provide an effective relay of signal from the adjacent node, so that ubiquitous coverage is provided throughout the Service Area with the least number of nodes. To move a node too far from its proposed location will therefore result in an inability to effectively offload service capacity in order to meet the node's technical objectives as the node is unable to properly propagate its signal to the other nodes within the larger Network. The further a node is moved from its proposed location, the more the signal from that node will weaken. The technical limitations of small wireless facilities may result in limited viable options for their placement, as relocating a node by more than 50 feet from the proposed location materially impairs its technical capability.

While Crown Castle is able to install new poles to achieve its RF capacity offload and coverage objectives, technical objectives are not Crown Castle's sole consideration when selecting a node location. Crown Castle also considers aesthetic impacts, making the strategic decision to minimize the installation of new poles, where feasible, by installing nodes on existing vertical elements, including streetlights and wooden utility poles. By approaching a network design in this matter, Crown Castle limits proliferation of verticalities in the public ROW. Crown Castle considers the following factors during the site selection process:

- (1) Technical feasibility;
- (2) Ability to utilize existing vertical elements;
- (3) Ability to offload and support capacity demands, meet RF objectives; and
- (4) Minimization of visibility/aesthetic impacts.

f. Selection Criteria for Node Site Location.

Each node of the Network is necessary to support a degradation of service due to overload on the system. The need to maintain minimum quality of service to a level that allows adequate in-building coverage and to address growing capacity demands is underscored by the greater numbers

of customers dropping their landlines and relying solely on wireless telecommunications for their phone service. Additionally:

- (1) In a recent international study, the United States dropped to fifteenth in the world in broadband penetration, well behind South Korea, Japan, the Netherlands and France.¹²
- (2) 40 percent of all American homes are now wireless only.¹³
- (3) More and more civic leaders and emergency response personnel cite lack of a robust wireless network as a growing public safety risk. The number of 911 calls placed by people using wireless phones has significantly increased in recent years. It is estimated that about 70 percent of 911 calls are placed from wireless phones, and that percentage is growing.¹⁴
- (4) Data demand from new smartphones and tablets is leading to a critical deficit in spectrum, requiring more wireless antennas and infrastructure. According to a 2011 report, wireless data traffic was 110 percent higher than in the last half of 2010. Similarly, AT&T reports that its wireless data volumes have increased 30-fold since the introduction of the iPhone.¹⁵
- (5) Wireless data traffic grew by a factor of 20 between 2010 and 2015.¹⁶

As more Americans depend on wireless communications technologies and smartphone, reliable network capacity and maintaining high level in-building service coverage is and will continue to be critical. The San Mateo Service Area is currently experiencing insufficient coverage and/or capacity. Users in the Service Area therefore would experience an intolerably high percentage of blocked and dropped calls and/or slow data speeds for outside use, with a commensurate decline in signal strength as one moves toward the inside of existing buildings and homes. Crown Castle Small Cell Site nodes seek to provide sufficient signal strength to ensure not only adequate signal for mobile and outdoor users, but further support for reliable in-building coverage for all those customers who may seek to abandon their home landlines and sufficient capacity to address new data demands from smartphones and tablets. Wireless customers must be able to count on a level of service commensurate with that provided by landlines.

g. Additional Information Provided Regarding Drive Tests-NOIs

¹² Organization for Economic Co-operation and Development (OECD) Directorate for Science, Technology, and Industry, "Broadband Statistics," (June 2010): www.oecd.org/sti/ict/broadband.

¹³ Federal Communications Commission (April 2013).

¹⁴ Federal Communications Commission (2013) <http://www.fcc.gov/guides/wireless-911-services>. Executive Office of the President Council of Economic Advisors (White House, Feb. 2012) at 2-6.

¹⁵ *Id.*

¹⁶ *Id.*

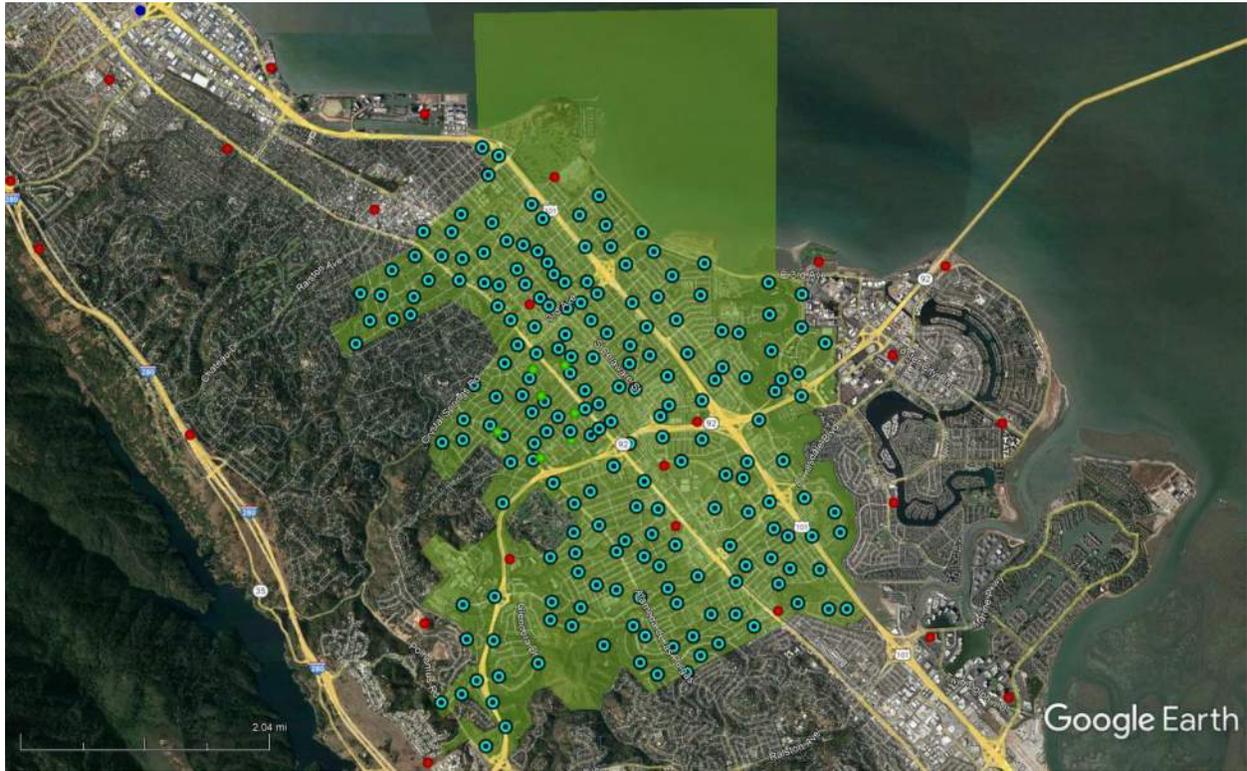
Drive test data, which is requested to show the area of coverage for the proposed site, is not relevant for a small wireless facility that is needed to address capacity constraints and network densification needs as opposed to traditional coverage gaps. Crown Castle did not conduct in-field drive tests and is unable to provide any drive test results reflecting any gaps in coverage or coverage are, as addressing a coverage gap is not a technical objective of the project at hand. We are instead improving existing service and introducing the 5G spectrum, a new service, to the San Mateo area. Small Cells are needed to densify the overall network and Crown Castle is targeting the Public Right of Way where 5G is not yet available. Please be advised that pursuant to the FCC, a provider enhancing, densifying, expanding, or introducing new services need not show a significant gap in order to show necessity for its facilities—it may instead use other, more relevant means of showing its introduction of new or improvement of existing services.¹⁷ The instant narrative and other application materials show Crown Castle is introducing new and improving existing services in the San Mateo area.

IV. CONCLUSION

Crown Castle respectfully presents its Wireless Permit applications for wireless communications facility nodes for the Network. Crown Castle's representatives are available to answer any questions.

¹⁷ *Removing Barriers*, at ¶ 37.

VI. OVERVIEW MAP OF CROWN CASTLE'S EXISTING AND PROPOSED NETWORK



Legend:

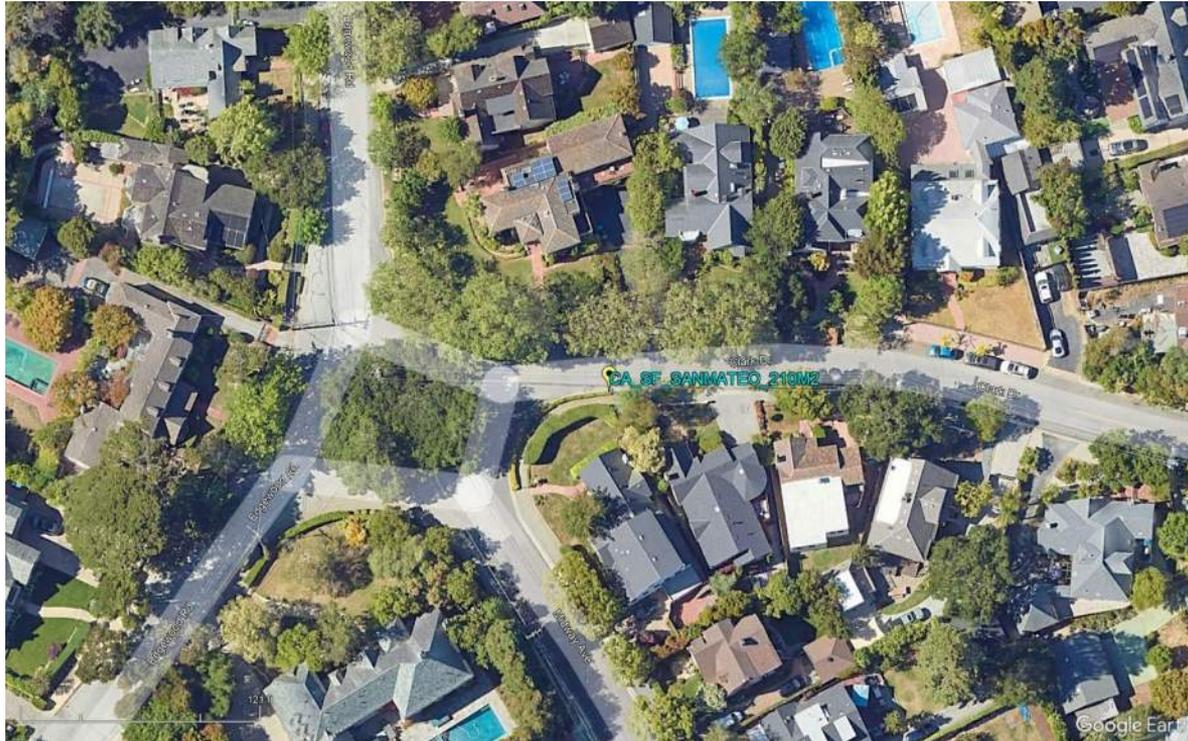
-  City of San Mateo
-  Existing Verizon Macros
-  Existing Verizon oDAS Nodes
-  Existing Verizon Small Cells
-  Proposed Small Cells

Alternative Site Analysis

City of San Mateo

Primary Candidate for Trousdale

Node	Latitude	Longitude	Structure Type	Address	Zoning district designation
CA_SF_SANMATEO_210M2	37.565985	-122.349202	Wood Pole	535 Clark Dr, San Mateo, CA 94402	R1A



Legend



Proposed Node

Trousdale

Primary and Alternate Candidates for CA_SF_SANMATEO_210M2



Legend



Proposed Node



Wood Pole



500ft Radius

- 28 Sites Evaluated
- All other sites eliminated due to being less preferable locations, GO95 restrictions, not following PG&E standards and guidelines, not meeting network coverage and capacity, or deemed more intrusive due to environmental and visual impacts.

Trousdale

Primary and Alternative Candidates for CA_SF_SANMATEO_210M2

Node	Latitude	Longitude	Structure Type	Address	Zoning district designation	Reason for Being Acceptable or Unacceptable
CA_SF_SANMATEO_210M1	37.565985	-122.349202	Wood Pole	535 Clark Dr, San Mateo, CA 94402	R1A	Will meet the coverage objective.
ALT 01	37.566772	-122.348118	Wood Pole	531 Occidental Ave, San Mateo, CA 94402	R1A	Will not work because the pole has a transformer, existing equipment, fuse switches and is within 4ft of the residential driveways violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~426ft away from our primary target.
ALT 02	37.564703	-122.348694	Wood Pole	432 Midway Ave, San Mateo, CA 94402	R1A	Will not work because the pole is within 4ft of residential driveway violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~490ft away from our primary target.
ALT 03	37.564936	-122.348893	Wood Pole	439 Midway Ave, San Mateo, CA 94402	R1A	Will not work because the pole is within 4ft of residential driveway and has primary riser violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~392ft away from our primary target.
ALT 04	37.564982	-122.348785	Wood Pole	450 Midway Ave, San Mateo, CA 94402	R1A	Will not work because pole is within 4ft of residential driveway violating PG&E standards & antenna will be blocked by tree branches. Tree interference will decrease antenna signal. Also, this ALT does not meet our RF requirements and is located ~385ft away from our primary target.
ALT 05	37.565284	-122.349077	Wood Pole	469 Midway Ave, San Mateo, CA 94402	R1A	Will not work because the pole has a transformer and fuse switches violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~258ft away from our primary target.
ALT 06	37.565346	-122.34899	Wood Pole	464 Midway Ave, San Mateo, CA 94402	R1A	Will not work because the pole is within 4ft of residential driveway violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~241ft away from our primary target.
ALT 07	37.565986	-122.34959	Wood Pole	Across 539 Edgewood Rd, San Mateo, CA 94402	R1A	Will not work because the antenna will be blocked by tree branches. Tree interference will cause a decrease in antenna signal. No space on pole.
ALT 08	37.566069	-122.349758	Wood Pole	539 Edgewood Rd, San Mateo, CA 94402	R1A	Will not work because the pole is within 4ft of residential driveway and has fuse switches violating PG&E standards.
ALT 09	37.56653	-122.349617	Wood Pole	554 Edgewood Rd, San Mateo, CA 94402	R1A	Will not work because pole is within 4ft of residential driveway violating PG&E standards & antenna will be blocked by tree branches. Tree interference will decrease antenna signal. Also, this ALT does not meet our RF requirements and is located ~234ft away from our primary target.
ALT 10	37.566553	-122.34973	Wood Pole	565 Edgewood Rd, San Mateo, CA 94402	R1A	Will not work because the pole has a transformer and fuse switches violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~257ft away from our primary target.
ALT 11	37.56686	-122.349829	Wood Pole	585 Edgewood Rd, San Mateo, CA 94402	R1A	Will not work because the pole is within 4ft of residential driveway violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~367ft away from our primary target.
ALT 12	37.566956	-122.349687	Wood Pole	533 Warren Rd, San Mateo, CA 94402	R1A	Will not work because the pole is within 4ft of residential driveway violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~381ft away from our primary target.
ALT 13	37.56578	-122.349809	Wood Pole	540 Edgewood Rd, San Mateo, CA 94402	R1A	Will not work because the guy wires on the pole lands in a private property violating PG&E standards.

Trousdale

Primary and Alternative Candidates for CA_SF_SANMATEO_210M2

Node	Latitude	Longitude	Structure Type	Address	Zoning district designation	Reason for Being Acceptable or Unacceptable
ALT 14	37.565451	-122.350126	Wood Pole	528 Edgewood Rd, San Mateo, CA 94402	R1A	Will not work because the pole has a transformer and fuse switches violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~335ft away from our primary target.
ALT 15	37.565489	-122.350224	Wood Pole	501 Edgewood Rd, San Mateo, CA 94402	R1A	Will not work because the pole is too far away from our targeted coverage and capacity relief area. 5G signal travels ~200ft with line of site based on the surroundings. This ALT does not meet our RF requirements and is located ~348ft away from our primary target.
ALT 16	37.565247	-122.350238	Wood Pole	456 Hillcrest Rd, San Mateo, CA 94402	R1A	Will not work because pole is within 4ft of residential driveway, has fuse switches violating PG&E standards & antenna will be blocked by tree branches. Tree interference will decrease antenna signal. Also, this ALT does not meet our RF requirements & is located ~406ft away from our primary target.
ALT 17	37.565144	-122.350517	Wood Pole	488 Edgewood Rd, San Mateo, CA 94402	R1A	Will not work because the pole has an existing equipment, fuse switches and primary power capacitor violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~491ft away from our primary target.
ALT 18	37.564835	-122.350135	Wood Pole	452 Hillcrest Rd, San Mateo, CA 94402	R1A	Will not work because the pole has a transformer and fuse switches violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~500ft away from our primary target.
ALT 19	37.567113	-122.348253	Wood Pole	537 Occidental Ave, San Mateo, CA 94402	R1A	Will not work because the pole has a transformer and fuse switches violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~495ft away from our primary target.
ALT 20	37.565639	-122.349333	Wood Pole	540 Edgewood Rd (On Midway Ave), San Mateo, CA 94402	R1A	Would be acceptable but Crown Castle believes the primary candidate is better option to meet the RF coverage and capacity criteria.
ALT 21	37.565996	-122.348706	Wood Pole	521 Clark Dr, San Mateo, CA 94402	R1A	Will not work because the pole has a transformer and fuse switches violating PG&E standards and the antenna will be blocked by tree branches. Tree interference will cause a decrease in antenna signal.
ALT 22	37.566081	-122.348744	Wood Pole	512 Clark Dr, San Mateo, CA 94402	R1A	Will not work because the pole is within 4ft of residential driveway violating PG&E standards and the antenna will be blocked by tree branches. Tree interference will cause a decrease in antenna signal.
ALT 23	37.565888	-122.348232	Wood Pole	509 Clark Dr, San Mateo, CA 94402	R1A	Will not work because the pole has an existing equipment and disconnect switch violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~282ft away from our primary target.
ALT 24	37.565894	-122.347826	Wood Pole	443 Occidental Ave, San Mateo, CA 94402	R1A	Will not work because the pole is too far away from our targeted coverage and capacity relief area. 5G signal travels ~200ft with line of site based on the surroundings. This ALT does not meet our RF requirements and is located ~399ft away from our primary target.
ALT 25	37.566102	-122.347869	Wood Pole	500 Clark Dr (On Occidental Ave), San Mateo, CA 94402	R1A	Will not work because the pole is too far away from our targeted coverage and capacity relief area. 5G signal travels ~200ft with line of site based on the surroundings. This ALT does not meet our RF requirements and is located ~388ft away from our primary target.

Trousdale

Primary and Alternative Candidates for CA_SF_SANMATEO_210M2

Node	Latitude	Longitude	Structure Type	Address	Zoning district designation	Reason for Being Acceptable or Unacceptable
ALT 26	37.566365	-122.347959	Wood Pole	515 Occidental Ave, San Mateo, CA 94402	R1A	Will not work because the pole is within 4ft of residential driveway violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~384ft away from our primary target.
ALT 27	37.565497	-122.347648	Wood Pole	435 Occidental Ave, San Mateo, CA 94402	R1A	Will not work because the pole has a secondary riser and fuse switches violating PG&E standards. Also, this ALT does not meet our RF requirements and is located ~482ft away from our primary target.
ALT 28	37.567107	-122.349967	Wood Pole	635 Edgewood Rd, San Mateo, CA 94402	R1A	Will not work because the pole is too far away from our targeted coverage and capacity relief area. 5G signal travels ~200ft with line of site based on the surroundings. This ALT does not meet our RF requirements and is located ~466ft away from our primary target.