

Case File Number: PLN15-388

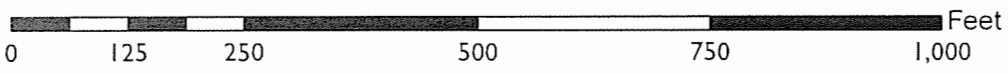
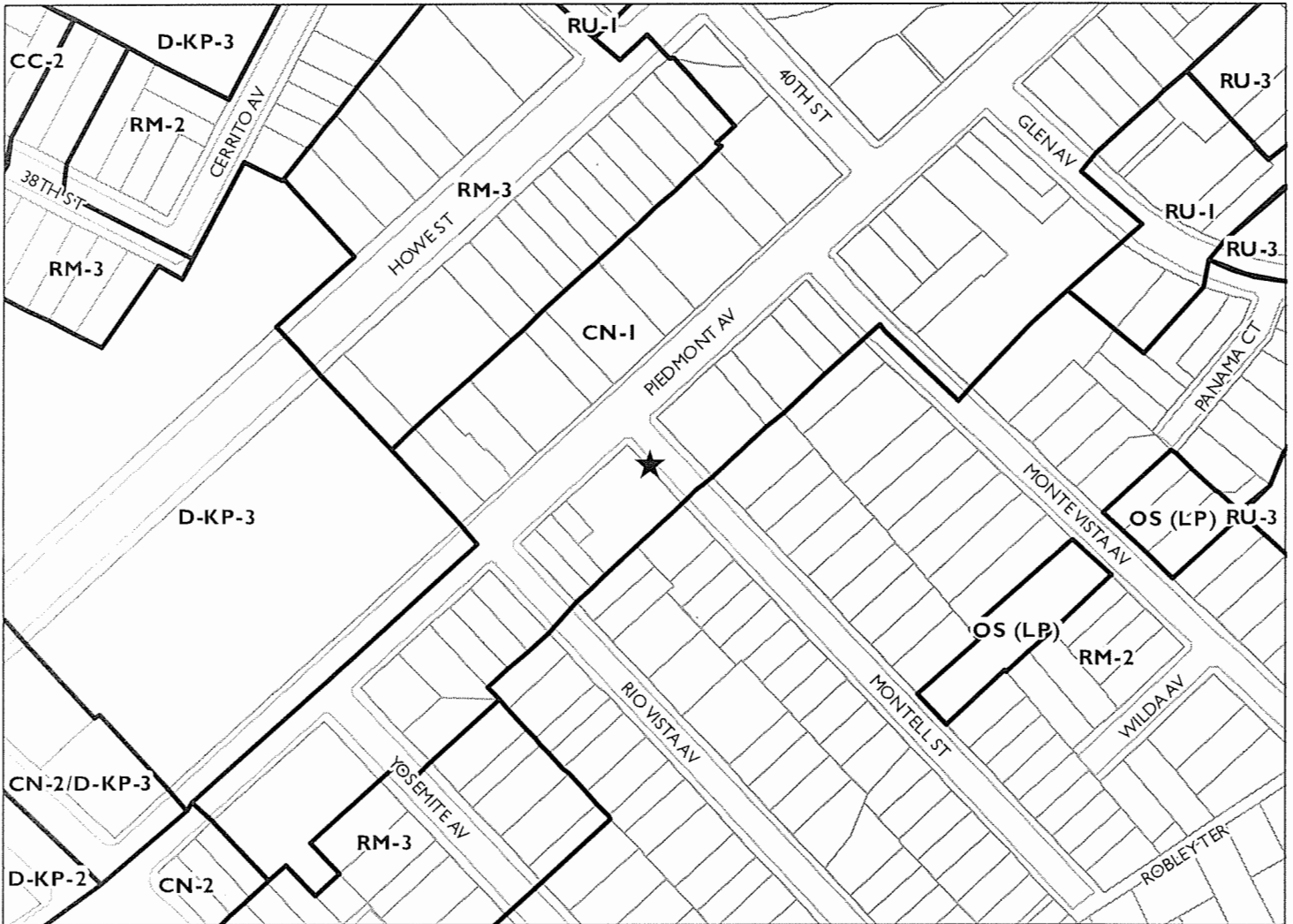
May 4, 2016

Location:	The Public Right of Way near 3868 Piedmont Avenue and Montell Street (See map on reverse)
Assessors Parcel Numbers:	Nearest lot adjacent to the project site (012-0936-022-00)
Proposal:	The project (revised design) involves the installation of a new wireless Telecommunications facility on a new 24' tall metal light pole located in the public right-of-way; installation of one 24" wide panel antenna mounted at a height of 23' above the ground; an associated equipment box will be within a 31" tall by 27" wide wrap around enclosure attached to the light pole 10' above the ground.
Applicant:	Crown Castle
Contact Person/	Bob Gundermann & Jason Osborn
Phone Number:	(925) 899-1999
Owner:	City of Oakland
Case File Number:	PLN15-388
Planning Permits Required:	Major Conditional Use Permit and Design Review to install a new Monopole Telecommunication Facility within 100' of a residential zone, and a Minor Variance to establish a Monopole facility within 1500 feet of another monopole facility.
General Plan:	Neighborhood Center Mixed Use
Zoning:	CN-1 Neighborhood Center
Environmental	Exempt, Section 15303 of the State CEQA Guidelines;
Determination:	installation of new telecommunication/light pole. Section 15183 of the State CEQA Guidelines; projects consistent with a community plan, General Plan or zoning.
Historic Status:	Not a Potential Designated Historic Property; Survey Rating: N/A
Service Delivery District:	2
City Council District:	1
Date Filed:	December 7, 2015
Finality of Decision:	Appealable to City Council within 10 days
For Further Information:	Contact case planner Jason Madani at (510) 238-4790 or jmadani@oaklandnet.com

SUMMARY

On April 6, 2016, the Planning Commission held a public hearing to discuss Crown Castle's application to install a telecommunications facility located in the public right of way near Piedmont Avenue and Montell Street. During the public hearing, members of the public raised concerns that the facility would be out of scale and would have negative visual impacts on the neighborhood. The Planning Commissioners directed staff and Crown Castle to meet with the public and discuss alternative designs, including a light pole with an associated equipment cabinet structure built into the base. Subsequently, Crown Castle developed three different alternative design options which was presented to the Piedmont Avenue Neighborhood

CITY OF OAKLAND PLANNING COMMISSION



Case File: PLN15388
Applicant: Crown Castle
Address: Public Right-of-Way adjacent to
5 Montell Street and 3868 Piedmont Avenue
Zone: CN-1

Improvement League (PANIL) at the community meeting on April 27, 2016. The majority of the community members voted to support alternative design option (3) to install round steel street light pole; install one 24” wide panel antenna mounted at a height of 23’; an associate box located within a 31” tall by 27” wide wrap around enclosure attached to the light pole 10’ above the ground. (which reduces equipment cabinet size) see (attachment A)

PROJECT DESCRIPTION

In response to the Planning Commission’s direction Crown Castle was advised to meet with PANIL and Staff to discuss alternative designs for the two nodes under review. Among the options presented: Crown Castle is proposing Option 3 , which consists of a new 24’ tall metal light pole located in the City of Oakland public right-of-way. The project involves the installation of one 24” wide panel antenna mounted at 23’ above the ground, and an associated equipment box, located within a 31” tall by 27” wide wrap around enclosure attached to the light pole 10’ above the ground. **(See Attachment A)**

Crown Castle has also provided another alternative design, “Option 1”, which is approximately 4’ tall and 26” wide equipment cabinet structure built into the base of light pole.

REQUIRED FINDINGS AND CONDITIONS OF APPROVAL

As demonstrated in the attached findings, staff believes the new design proposal (Design Option 3) meets all the required findings under Planning Code sections 17.134.050 (General Use Permit criteria), 17.136.050(B) (Non-Residential Design Review criteria), 17.128.080(B) ((Monopole) Design Review criteria); 17.128.080(C) ((Monopole) Conditional Use Permit criteria); and 17.148.050 (Minor Variance). For convenience purposes, staff has attached all required findings to this staff report. The attached findings have been updated to reflect the newly proposed Option 3. Staff has carefully reviewed Design Option 3, and it is staff’s opinion that all of the required findings can be met.

In addition, staff inadvertently attached outdated Conditions of Approval to the April 6, 2016 Staff Report. Attached to this staff report is a complete set of updated Conditions of Approval that will apply to the project.

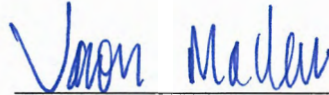
CONCLUSION

Staff recommends approval of either Design Option 3 or Design Option 1 for the proposed telecommunication facility and is available for questions.

RECOMMENDATIONS:

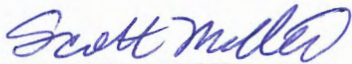
1. Affirm staff's environmental determination; and
2. Approve Major Conditional Use Permit, Design Review and Minor Variance application PLN15-388 subject to the attached findings and conditions of approval.

Prepared by:



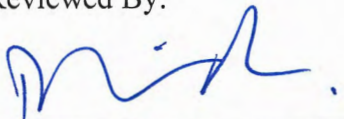
Jason Madani
Planner II

Reviewed by:



Scott Miller
Zoning Manager

Reviewed By:



Darin Ranelletti, Deputy Director
Bureau of Planning and Building

Approved for forwarding to the
City Planning Commission



Rachel Flynn, Director
Bureau of Planning and Building

ATTACHMENTS:

- A. Revised Project Plans & Photo Simulations & Alternative Site Analysis & Design Alternative
- B. Jerrold T. Bushberg Health and Medical Physics Consulting, Inc. Engineering RF Emissions Report
- C. Correspondence
- D. April 6, 2016 Staff Report

FINDINGS FOR APPROVAL

FINDINGS FOR APPROVAL:

As stated in the April 6, 2016 Staff Report, the proposal meets all the required findings under Planning Code sections 17.134.050 (General Use Permit criteria), 17.136.050(B) (Non-Residential Design Review criteria), 17.128.080(B) ((Monopole) Design Review criteria); 17.128.080(C) ((Monopole) Conditional Use Permit criteria); and 17.148.050 (Variance Findings). The attached findings have been updated to reflect the newly proposed Design Option 3. Staff has carefully reviewed Design Option 3, and it is staff's opinion that all of the required findings can be met with this design alternative. Staff has carefully reviewed Design Option 3 and it is staff's opinion that all of the required findings can be met with this design alternative. Required findings are shown in **bold** type; reasons your proposal satisfies them are shown in normal type.

SECTION 17.134.050 – GENERAL USE PERMIT FINDINGS:

A. That the location, size, design, and operating characteristics of the proposed development will be compatible with and will not adversely affect the livability or appropriate development of abutting properties and the surrounding neighborhood, with consideration to be given to harmony in scale, bulk, coverage, and density; to the availability of civic facilities and utilities; to harmful effect, if any upon desirable neighborhood character; to the generation of traffic and the capacity of surrounding streets; and to any other relevant impact of the development.

The location, size, design, and operating characteristics of the proposed project will be compatible with and will not adversely affect the livability or appropriate development of abutting properties and the surrounding neighborhood. The project involves the installation of a new wireless telecommunications facility (Crown Castle) on a new 24' tall metal light pole located in the public right-of-way adjacent to a parking lot; installation of one 24" wide panel antenna mounted at a height of 23' above the ground; an associated equipment box located , within a 31" tall by 27" wide wrap around enclosure attached to the light pole 10' above the ground. The proposed monopole facility is designed to look like a City light pole. The proposed antennas will be painted green color to match the City of Oakland light poles. The sidewalk is more than 9' wide at this location, thus the light pole will not impede the flow of pedestrian traffic.

B. That the location, design, and site planning of the proposed development will provide a convenient and functional living, working, shopping, or civic environment, and will be as attractive as the nature of the use and its location and setting warrant.

The location, design, and site planning of the proposed project will provide a convenient and functional living, working, shopping, or civic environment, and will be as attractive as the nature of the use and its location and setting warrant. The proposed unmanned wireless telecommunication facility will not adversely affect or detract from the civic, commercial or residential characteristics of the neighborhood, because the proposed monopole facility is designed to look like a City light pole and the antennas will be mounted on a 24' tall monopole telecommunication facility that is located in the public right-of-way adjacent to the parking lot of

an existing commercial building and provide approximately 30' separation from the nearest residential building within the commercial corridor. . The equipment box will be located within a structure built into the base of the light pole, and will be as attractive as other light poles in the area.

C. That the proposed development will enhance the successful operation of the surrounding area in its basic community functions, or will provide an essential service to the community or region.

The proposed development will enhance the successful operation of the surrounding area in its basic community function and will provide an essential service to the community or region. This will be achieved by improving the functional use of the site by providing a regional telecommunication facility for the community, which will be available to police, fire, public safety organizations and the general public.

D. That the proposal conforms to all applicable design review criteria set forth in the regular design review procedure at Section 17.136.050.

The proposal conforms with all significant aspects of the design review criteria set forth in Chapter 17.136.050 of the Oakland Planning Code, as outlined below.

E. That the proposal conforms in all significant respects with the Oakland General Plan and with any other applicable guidelines or criteria, district plan or development control map which has been adopted by the Planning Commission or City Council.

The proposal conforms in all significant respects with the Oakland General Plan. The subject property is located within the Neighborhood Center Mixed Use General Plan designation and conforms in all significant respects with this designation. The Neighborhood Center Mixed Use land use classification is intended to identify, create, maintain and enhance mixed use neighborhood commercial centers. These centers are typically characterized by smaller scale pedestrian-oriented, continuous street frontage with a mix of retail, housing, office, active open space, eating and drinking places, personal and business services, and smaller scale educational, cultural, or entertainment uses. The proposed unmanned wireless telecommunication facility will not adversely affect and detract from the characteristics of the neighborhood. The proposal will not negatively affect the general quality and character of the neighborhood. The proposed project is not expected to have a significant visual impact on the existing structure and surrounding area.

SECTION 17.136.050(B) – NONRESIDENTIAL DESIGN REVIEW CRITERIA:

1. That the proposal will help achieve or maintain a group of facilities which are well related to one another and which, when taken together, will result in a well-composed design, with consideration given to site, landscape, bulk, height, arrangement, texture, materials, colors, and appurtenances; the relation of these factors to other facilities in the vicinity; and the relation of the proposal to the total setting as seen from key points in the surrounding area. Only elements of design which have some significant relationship to outside appearance shall be considered, except as otherwise provided in Section 17.136.060;

The proposed project will help achieve consistency in design because it will be designed to look like other City of Oakland utility light poles within this important pedestrian and commercial corridor. The proposal is to install a new 24' tall metal light pole located in the public right-of-way. The project involves installation of one 24" wide panel antenna mounted at a height of 23' above the ground; an associated equipment box is located within a 31" tall by 27" wide wrap around enclosure attached to the light pole 10' above the ground located within the City of Oakland public right-of-way

2. That the proposed design will be of a quality and character which harmonizes with, and serves to protect the value of, private and public investments in the area;

The design will be of a quality and character that harmonizes with, and serves to protect the value of, private and public investments in the area. The antennas will be located on a monopole designed to look like a City of Oakland light pole, and the equipment box, battery backup and meter box will be located within a 31" tall by 27" wide wrap around enclosure attached to the light pole 10' above the ground, and will be as attractive as other light poles in the area. The monopole will be located within public right-of-way of a commercial corridor and is consistent with other public utility pole structures.

3. That the proposed design conforms in all significant respects with the Oakland General Plan and with any applicable design review guidelines or criteria, district plan, or development control map which have been adopted by the Planning Commission or City Council.

The proposal conforms in all significant respects with the Oakland General Plan. See Finding 17.134.050(E).

SECTION 17.128.080(B) DESIGN REVIEW CRITERIA FOR MONOPOLE FACILITIES

1. Collocation is to be encouraged when it will decrease visual impact and collocation is to be discouraged when it will increase negative visual impact:

The proposed 24' tall monopole telecommunication facility design has been revised to incorporate the equipment cabinets within a 31" tall by 27" wide wrap around enclosure attached to the light pole 10' above the ground, look like a City light pole and the antenna will be painted green to match the City of Oakland light poles. The proposal is consistent with other public utility pole structures within a commercial corridor.

2. Monopoles should not be sited to create visual clutter or negatively affect specific views:

The proposed pole will be visible from public view but is designed to blend in with existing utility poles and other public infrastructure in the immediate area to minimize visual impact.

3. Monopoles shall be screened from the public view wherever possible:

The proposed monopole facility is designed to look like a City utility light pole. The proposed antenna will be painted green color to match the City of Oakland light pole, and the equipment

cabinet, will be located within a 31" tall by 27" wide wrap around enclosure attached to the light pole 10' above the ground.

- 4. The equipment shelter or cabinet must be concealed from public view or made compatible with the architecture of the surrounding structures or placed underground. The shelter or cabinet must be regularly maintained:**

The associated equipment box, will be within a 31" tall by 27" wide wrap around enclosure attached to the light pole 10' above the ground and painted green color to match the City of Oakland light poles. The proposed antennas and equipment are consistent with other existing utility poles located within the public right-of-way of the commercial corridor. The equipment will be constructed such that it will not be accessed by the public.

- 5. Site location and development shall preserve the preexisting character of the surrounding buildings and land uses and the zone district as much as possible. Wireless communication towers shall be integrated through location and design to blend in with the existing characteristics of the site to the extent practical. Existing on-site vegetation shall be preserved or improved, and disturbance of the existing topography shall be minimized, unless such disturbance would result in less visual impact of the site to the surrounding area:**

The proposed monopole facility is designed to look like a City light pole. The proposed antenna and equipment cabinet will be screened and is located within a commercial corridor and it is consistent with other utility poles in this neighborhood.

- 6. That all reasonable means of reducing public access to the antennas and equipment has been made, including, but not limited to, placement in or on buildings or structures, fencing, anti-climbing measures and anti-tampering devices:**

The antennas will be mounted to a 24' tall monopole and will not be accessible to the public due to its location. The equipment will be constructed such that it will not be accessible to the public.

SECTION 17.128.080(C) CONDITIONAL USE PERMIT (CUP) FINDINGS FOR MONOPOLE FACILITIES

- 1. The project must meet the special design review criteria listed in subsection B of this section (17.128.080C):**

The proposed project meets the special design review criteria listed in section 17.128.080 B. (see Staff's findings in the preceding Section).

- 2. Monopoles should not be located any closer than one thousand five hundred (1,500) feet from existing monopoles unless technologically required or visually preferable:**

The antenna system that Crown castle is proposing as a small cell distributed antenna system. These Small cells are very low powered sites compared to a traditional Macro site. A macro site provides coverage for miles in all directions depending on the height and power output, whereas Small Cell is designed to cover very small areas approximately quarter mile in total diameter.

The sites are designed to be close together with lower RAD centers in order to supply coverage for the high density of population. As a result, Crown Castle is proposing several cell sites which are located within 1500 feet of each other along Piedmont Avenue. Thus, Crown Castle's proposal to add monopoles that are closer than 1500 feet from existing monopoles is necessary in this case is technologically required.

3. The proposed project must not disrupt the overall community character:

The site is located within public right-of-way located next to a commercial parking lot and provides approximately 30' of separation from the adjacent residential zone. The proposed antennas will be located on a 24' tall light pole monopole and painted to match green color finish of the City of Oakland light poles on the commercial corridor, thus it will not disrupt the overall community character of the site.

SECTION 17.148.050(A) VARIANCE FINDINGS:

- 1. That strict compliance with the specified regulation would result in practical difficulty or unnecessary hardship inconsistent with the purposes of the Zoning Regulations, due to unique physical or topographical circumstances or conditions of design; or, as an alternative in the case of a Minor Variance, that such strict compliance would preclude an effective design solution improving the livability, operational efficiency, or appearance.**

Strict compliance with the 1500 foot distance separation for monopoles would hinder the effectiveness of a small cell distributed antenna system that would result in improved cellular coverage in the area. Crown Castle is proposing to install a Monopole Telecommunications Facility within 1500 feet of another monopole facility located on Piedmont Avenue. Because this installation is a stand-alone telecommunications pole and not a joint-use utility pole, it is considered a Monopole by City of Oakland zoning regulations. The antenna system that Crown Castle is proposing is a Small Cell distributed antenna system. These Small Cells are very low powered sites compared to the full Macro site. A macro provides coverage for miles in all directions depending on the height and power output. Small Cell telecommunication facilities are designed to cover very small areas approximately one quarter mile in total diameter. The sites are designed to be close together with lower RAD centers in order to supply coverage for the high density of population. As a result, Crown Castle is proposing several cell sites which are located within 1500 feet of each other along the Piedmont Avenue corridor area. These are limited in height (24') and designed as light poles and hence are an effective design solution.

- 2. That strict compliance with the regulations would deprive the applicant of privileges enjoyed by owners of similarly zoned property; or, as an alternative in the case of a Minor Variance, that such strict compliance would preclude an effective design solution fulfilling the basic intent of the applicable regulation.**

Strict compliance with the distance separation requirement for monopoles would hinder the connectivity of a small cell distributed antenna system.

3. **That the variance, if granted, will not adversely affect the character, livability, or appropriate development of abutting properties or the surrounding area, and will not be detrimental to the public welfare or contrary to adopted plans or development policy.**

The variance will not adversely affect the character, livability or appropriate development of abutting properties and the surrounding area, and will not be detrimental to the public welfare or contrary to adopted plans or development policy because the associated equipment box, will be within a 31” tall by 27” wide wrap around enclosure attached to the light pole 10’ above the ground and painted green color to match the City of Oakland light poles. Photo simulations submitted for the project show the view of the proposed antennas and screen as seen from the street with minimum visual impacts. (see attachment A)

4. **That the variance will not constitute a grant of special privilege inconsistent with limitations imposed on similarly zoned properties or inconsistent with the purposes of the Zoning Regulations.**

Granting this project is not a grant of special privilege as it is typical that antennas like this mounted on poles in the right of way. These are limited in height (24’) and designed as light poles and hence are an effective design solution.

5. **That the elements of the proposal requiring the variance (e.g., elements such as buildings, walls, fences, driveways, garages and carports, etc.) conform with the regular design review criteria set forth in the design review procedure at Section 17.136.;**

Other than establishing the monopole structure within 1500 feet of other monopole facilities, all other design components of this project are consistent with design review criteria. As stated previously, these are limited in height (24’) and designed as light poles and hence conform to the applicable design review criteria.

6. **That the proposal conforms in all significant respects with the Oakland General Plan and with any other applicable guidelines or criteria, district plan, or development control map which have been adopted by the Planning Commission or City Council.**

The proposal conforms in all significant respects with the Oakland General Plan. See Finding 17.134.050(E).

CONDITIONS OF APPROVAL
PLN15-388

STANDARD CONDITIONS:

1. Approved Use

The project shall be constructed and operated in accordance with the authorized use as described in the approved application materials, **PLN15-388** and the approved plans **dated December 7, 2015 and April 27, 2016 (Design Option 3)**, as amended by the following conditions of approval and mitigation measures, if applicable (“Conditions of Approval” or “Conditions”).

2. Effective Date, Expiration, Extensions and Extinguishment

This Approval shall become effective immediately, unless the Approval is appealable, in which case the Approval shall become effective in ten calendar days unless an appeal is filed. Unless a different termination date is prescribed, this Approval shall expire **two years** from the Approval date, or from the date of the final decision in the event of an appeal, unless within such period all necessary permits for construction or alteration have been issued, or the authorized activities have commenced in the case of a permit not involving construction or alteration. Upon written request and payment of appropriate fees submitted no later than the expiration date of this Approval, the Director of City Planning or designee may grant a one-year extension of this date, with additional extensions subject to approval by the approving body. Expiration of any necessary building permit or other construction-related permit for this project may invalidate this Approval if said Approval has also expired. If litigation is filed challenging this Approval, or its implementation, then the time period stated above for obtaining necessary permits for construction or alteration and/or commencement of authorized activities is automatically extended for the duration of the litigation.

3. Compliance with Other Requirements

The project applicant shall comply with all other applicable federal, state, regional, and local laws/codes, requirements, regulations, and guidelines, including but not limited to those imposed by the City’s Bureau of Building, Fire Marshal, and Public Works Department. Compliance with other applicable requirements may require changes to the approved use and/or plans. These changes shall be processed in accordance with the procedures contained in Condition #4.

4. Minor and Major Changes

- a. Minor changes to the approved project, plans, Conditions, facilities, or use may be approved administratively by the Director of City Planning
- b. Major changes to the approved project, plans, Conditions, facilities, or use shall be reviewed by the Director of City Planning to determine whether such changes require submittal and approval of a revision to the Approval by the original approving body or a new independent permit/approval. Major revisions shall be reviewed in accordance with the procedures required for the original permit/approval. A new independent permit/approval shall be reviewed in accordance with the procedures required for the new permit/approval.

5. Compliance with Conditions of Approval

- a. The project applicant and property owner, including successors, (collectively referred to hereafter as the “project applicant” or “applicant”) shall be responsible for compliance with all the Conditions of Approval and any recommendations contained in any submitted and approved technical report at his/her sole cost and expense, subject to review and approval by the City of Oakland.
- b. The City of Oakland reserves the right at any time during construction to require certification by a licensed professional at the project applicant’s expense that the as-built project conforms to all applicable requirements, including but not limited to, approved maximum heights and minimum setbacks. Failure to construct the project in accordance with the Approval may result in remedial reconstruction, permit revocation, permit modification, stop work, permit suspension, or other corrective action.
- c. Violation of any term, Condition, or project description relating to the Approval is unlawful, prohibited, and a violation of the Oakland Municipal Code. The City of Oakland reserves the right to initiate civil and/or criminal enforcement and/or abatement proceedings, or after notice and public hearing, to revoke the Approval or alter these Conditions if it is found that there is violation of any of the Conditions or the provisions of the Planning Code or Municipal Code, or the project operates as or causes a public nuisance. This provision is not intended to, nor does it, limit in any manner whatsoever the ability of the City to take appropriate enforcement actions. The project applicant shall be responsible for paying fees in accordance with the City’s Master Fee Schedule for inspections conducted by the City or a City-designated third-party to investigate alleged violations of the Approval or Conditions.

6. Signed Copy of the Approval/Conditions

A copy of the Approval letter and Conditions shall be signed by the project applicant, attached to each set of permit plans submitted to the appropriate City agency for the project, and made available for review at the project job site at all times.

7. Blight/Nuisances

The project site shall be kept in a blight/nuisance-free condition. Any existing blight or nuisance shall be abated within 60 days of approval, unless an earlier date is specified elsewhere.

8. Indemnification

- a. To the maximum extent permitted by law, the project applicant shall defend (with counsel acceptable to the City), indemnify, and hold harmless the City of Oakland, the Oakland City Council, the Oakland Redevelopment Successor Agency, the Oakland City Planning Commission, and their respective agents, officers, employees, and volunteers (hereafter collectively called “City”) from any liability, damages, claim, judgment, loss (direct or indirect), action, causes of action, or proceeding (including legal costs, attorneys’ fees, expert witness or consultant fees, City Attorney or staff time, expenses or costs) (collectively called “Action”) against the City to attack, set aside, void or annul this Approval or implementation of this Approval. The City may elect, in its sole discretion, to participate in the defense of said Action and the project applicant shall reimburse the City for its reasonable legal costs and attorneys’ fees.

b. Within ten (10) calendar days of the filing of any Action as specified in subsection (a) above, the project applicant shall execute a Joint Defense Letter of Agreement with the City, acceptable to the Office of the City Attorney, which memorializes the above obligations. These obligations and the Joint Defense Letter of Agreement shall survive termination, extinguishment, or invalidation of the Approval. Failure to timely execute the Letter of Agreement does not relieve the project applicant of any of the obligations contained in this Condition or other requirements or Conditions of Approval that may be imposed by the City.

9. Severability

The Approval would not have been granted but for the applicability and validity of each and every one of the specified Conditions, and if one or more of such Conditions is found to be invalid by a court of competent jurisdiction this Approval would not have been granted without requiring other valid Conditions consistent with achieving the same purpose and intent of such Approval.

PROJECT SPECIFIC CONDITONS:

10. Radio Frequency Emissions

Prior to the final building permit sign off.

The applicant shall submit a certified RF emissions report stating the facility is operating within the acceptable standards established by the regulatory Federal Communications Commission.

11. Operational

Ongoing.

Noise levels from the activity, property, or any mechanical equipment on site shall comply with the performance standards of Section 17.120 of the Oakland Planning Code and Section 8,18 of the Oakland Municipal Code. If noise levels exceed these standards, the activity causing the noise shall be abated until appropriate noise reduction measures have been installed and compliance verified by the Planning and Zoning Division and Building Services.

12. Equipment cabinets

Prior to building permit Issuances.

The applicant shall submit revised elevations showing associated equipment cabinets are concealed within a single equipment box that is painted to match the utility pole, to the Oakland Planning Department for review and approval.

13. Radio Frequency Emissions

Prior to the final building permit sign off

The applicant shall submit a certified RF emissions report stating the facility is operating within the acceptable standards established by the regulatory Federal Communications Commission.

14. Operational

Ongoing

Noise levels from the activity, property, or any mechanical equipment on site shall comply with the performance standards of Section 17.120 of the Oakland Planning Code and Section 8.18 of the Oakland Municipal Code. If noise levels exceed these standards, the activity causing the noise shall be abated until appropriate noise reduction measures have been installed and compliance verified by the Planning and Zoning Division and Building Services.

15. Revised Plan

Prior to issuance of building permit.

Revised detail plans, to scale, for the alternative design option 3 that will not include meters box and equipment will be passively cooled and reviewed and approved, by the Planning Commission shall be submitted to and approved by Planning Bureau.

16. Height limitation

Ongoing

The Planning Bureau recommended approval, and the City Planning Commission approved, a monopole height of 24' because it is similar in height to the standard City of Oakland light pole. Any modifications to the monopole, including an increase in height or addition of any equipment, could compromise this consistency and therefore must be stealthed.



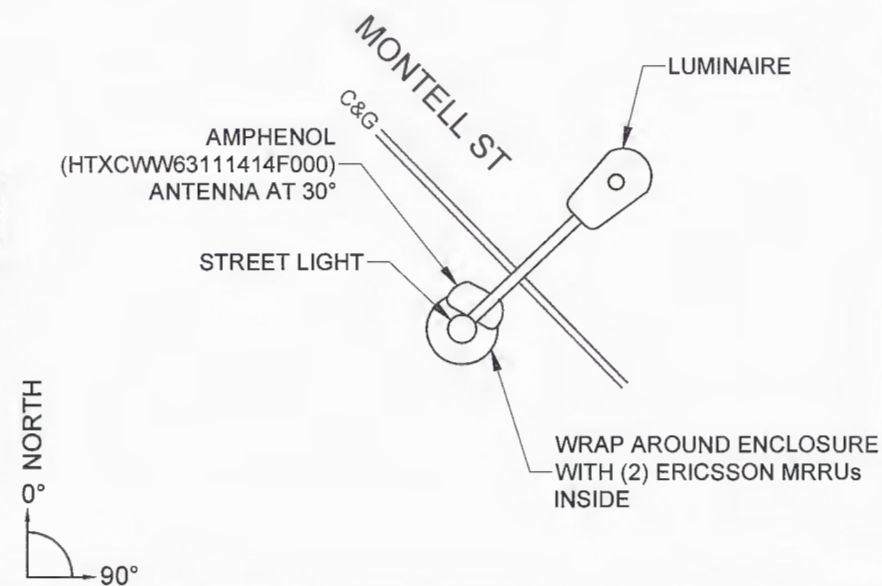
Proposed Site PA02 Option 3

TOP OF NEW POLE: 24'
 TOP OF ANTENNA: 23'
 RAD CENTER: 22'
 AZIMUTH: 30°
 PROFILE VIEW: 3 O' CLOCK

A NOTES

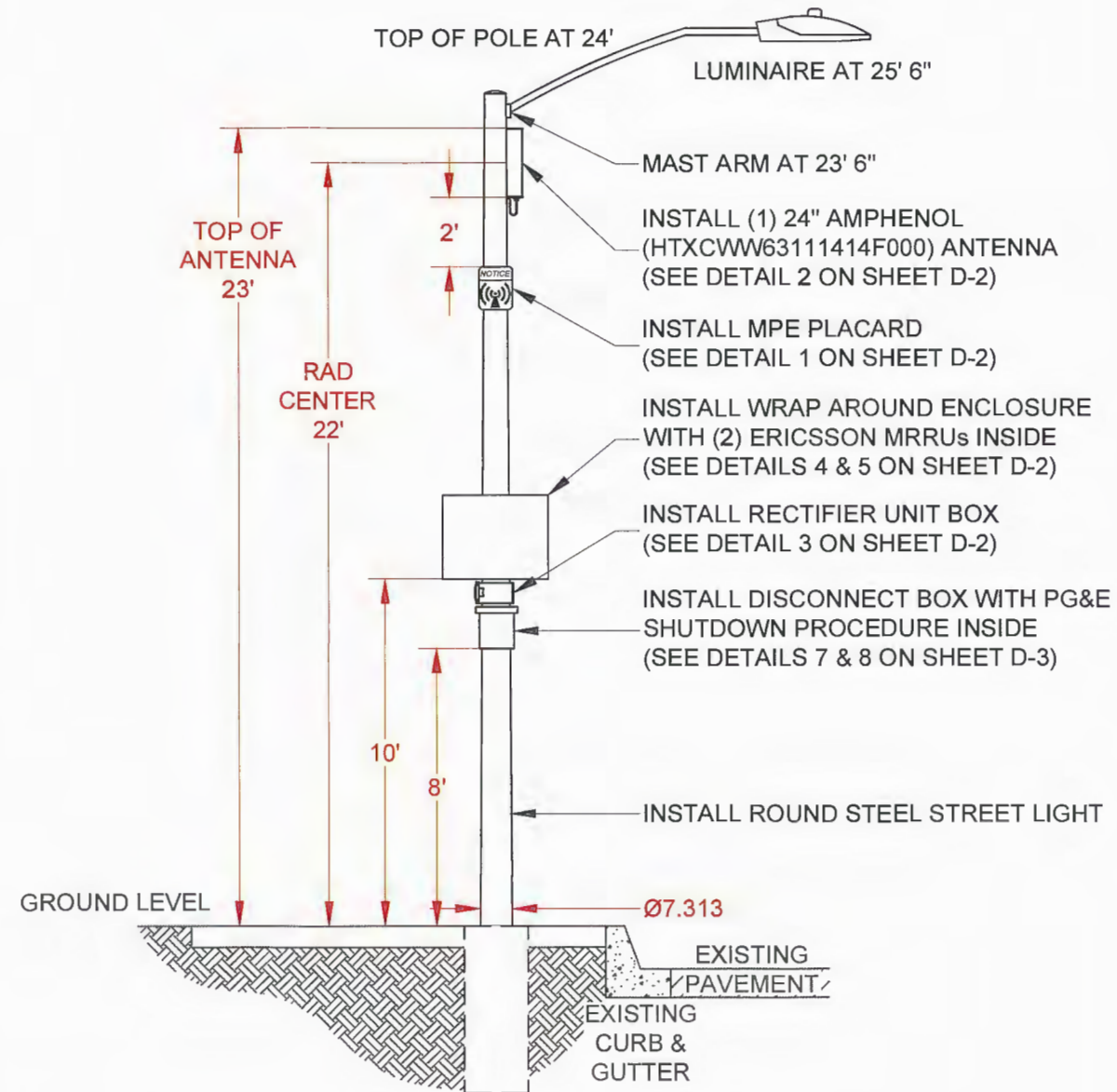
- INSTALL ROUND STEEL STREET LIGHT.
- INSTALL DISCONNECT BOX WITH PG&E SHUTDOWN PROCEDURE INSIDE.
- INSTALL RECTIFIER UNIT BOX.
- INSTALL MPE PLACARD.
- INSTALL WRAP AROUND ENCLOSURE WITH (2) ERICSSON MRRUs INSIDE.
- INSTALL (1) 24" AMPHENOL (HTXCWW63111414F000) ANTENNA.
- INSTALL CROWN CASTLE 2' X 3' VAULT WITH CONDUITS.
- STREET LIGHT, ANTENNAS, & EQUIPMENT TO BE PAINTED TO MATCH SURROUNDING POLES.

B NEW CONSTRUCTION NOTES



C TOP VIEW

N.T.S.



D PROFILE

N.T.S.

PA02m
(OPTION 3)

CROWN CASTLE PROJECT NO.
V243288

CLIENT:

695 RIVER OAKS PARKWAY
SAN JOSE, CA 95134
www.crowncastle.com

PREPARED BY:

5841 EDISON PLACE, SUITE 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936
www.coastalcomminc.com

PROPRIETARY INFORMATION
 THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO VERIZON. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON IS STRICTLY PROHIBITED.

1-800-227-2600
CALL AT
LEAST TWO
DAYS BEFORE
YOU DIG
UNDERGROUND SERVICE ALERT
TICKET # _____

SET UP INDIVIDUAL PACKET	9/29/15
REVISION / ISSUE	DATE

SITE NAME & ADDRESS:

 PROW ADJACENT TO
 5 MONTELL ST
 OAKLAND, CA

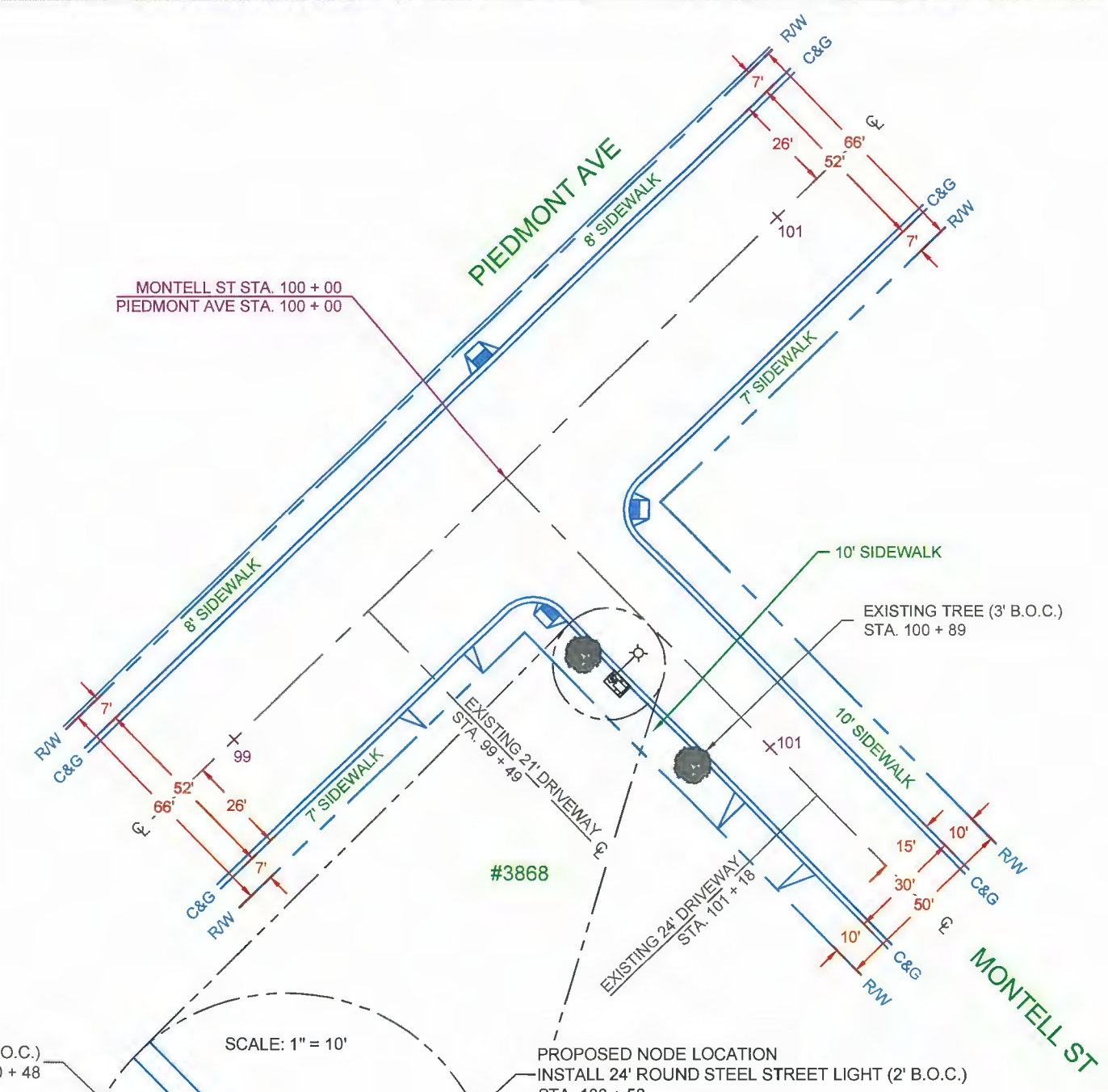
PROFILE

DRAWN BY: AC	DRAFT DATE: 03/24/15	APPROVED BY: SY
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SHEET NO. P-1.3

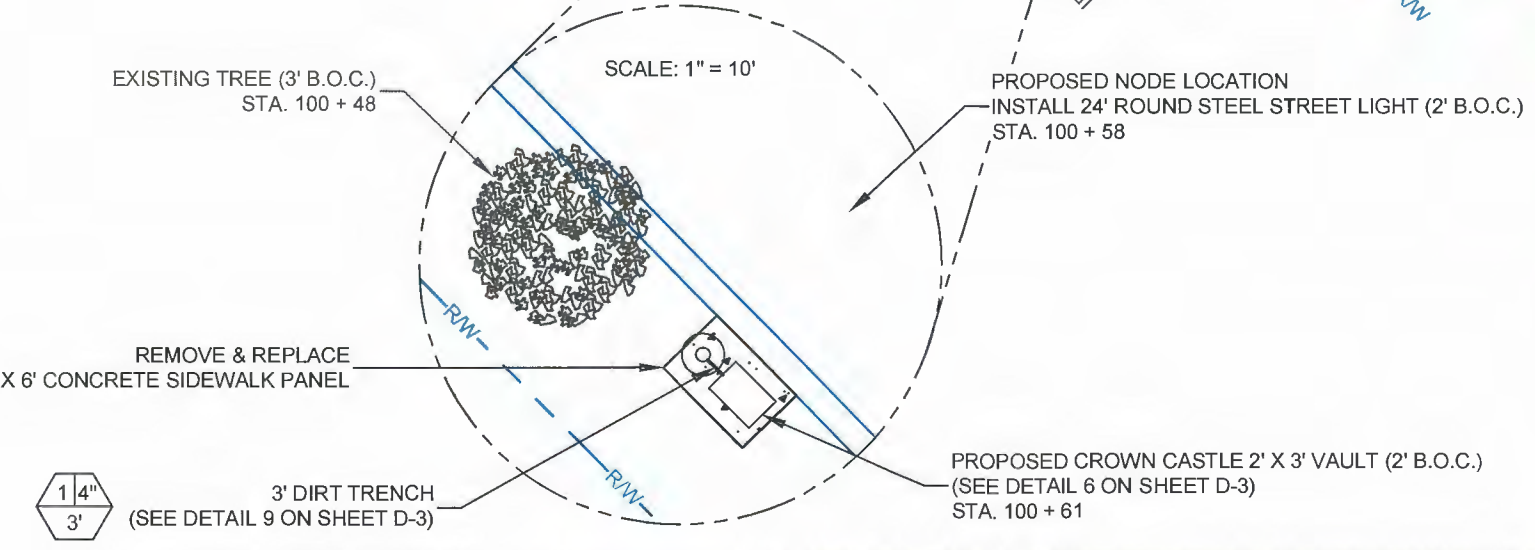
NOTES:

1. CONTRACTOR TO POTHOLE ALL UTILITY CROSSINGS.
2. CONTRACTOR TO PLACE SANDBAGS AROUND ANY/ALL STORM DRAIN INLETS TO PREVENT CONTAMINATED WATER.
3. SPOILS PILE WILL BE COVERED AND CONTAINED AND STREET WILL BE SWEEPED AND CLEANED AS NEEDED.
4. CONTRACTOR TO REPAIR DAMAGED PUBLIC IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER.
5. CURB & GUTTER TO BE PROTECTED IN PLACE. SIDEWALK TO BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
6. THE CONTRACTOR SHALL RESTORE THE ROADWAY BACK TO ITS ORIGINAL CONDITION SATISFACTORY TO THE CITY ENGINEER INCLUDING, BUT NOT LIMITED TO PAVING, STRIPING, BIKE LANES, PAVEMENT LEGENDS, SIGNS, AND TRAFFIC LOOP DETECTORS.



COORDINATES	
LATITUDE:	37.82473°
LONGITUDE:	-122.25436°

FOOTAGE TOTALS	
ASPHALT TRENCH	0'
DIRT TRENCH	3'
BORE	0'
PUNCH THRU	0'
TOTAL	3'
PCC SIDEWALK TOTAL	24 SQ. FT.



CONDUIT COUNT	SIZE OF CONDUIT	APPROX. LENGTH OF FOOTAGES
	17" X 30"	0
	2' X 3'	1
	3' X 5'	0
	1" PVC	0'
	3" PVC	0'
	4" PVC	3'

BILL OF MATERIALS		
DESCRIPTION	QTY	
VAULTS (PVT)	17" X 30"	0
	2' X 3'	1
	3' X 5'	0
CONDUIT (PVT)	1" PVC	0'
	3" PVC	0'
	4" PVC	3'

PA02m
(OPTION 3)

CROWN CASTLE PROJECT NO.
V243288

CLIENT:

CROWN CASTLE
695 RIVER OAKS PARKWAY
SAN JOSE, CA 95134
www.crowncastle.com

PREPARED BY:

Coastal Communications
Telecommunications Engineering
5841 EDISON PLACE, SUITE 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936
www.coastalcomminc.com

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TICKET #

SET UP INDIVIDUAL PACKET	9/29/15
REVISION / ISSUE	DATE

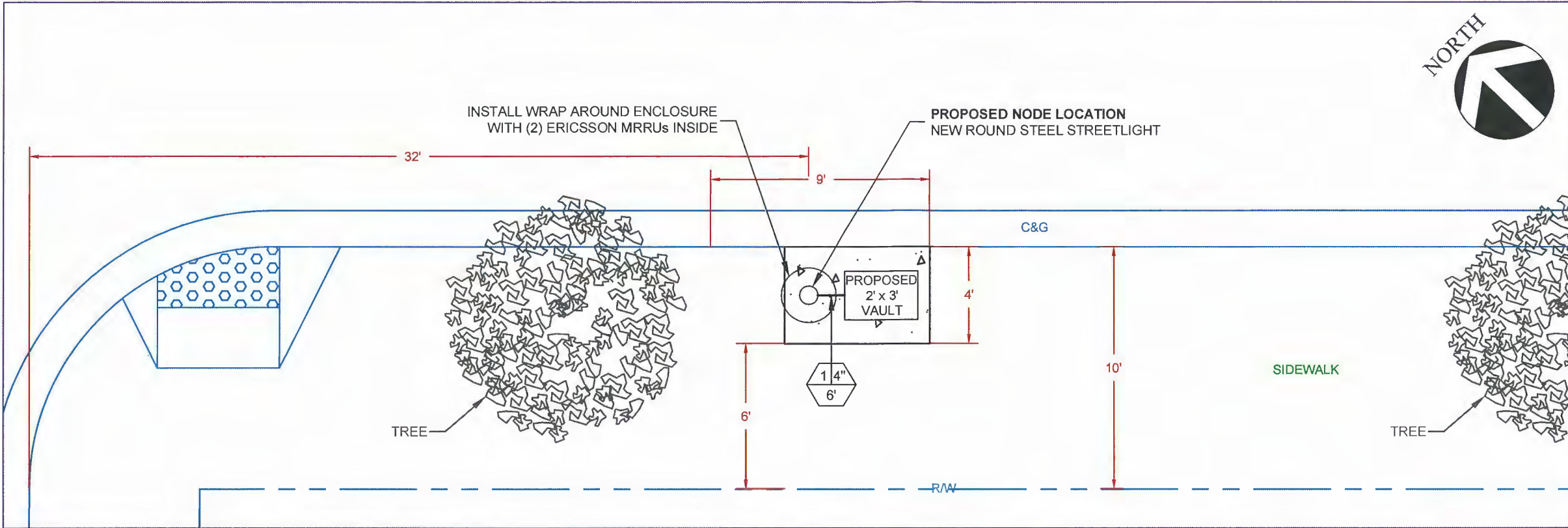
SITE NAME & ADDRESS:

PROW ADJACENT TO
5 MONTELL ST
OAKLAND, CA

SITE PLAN

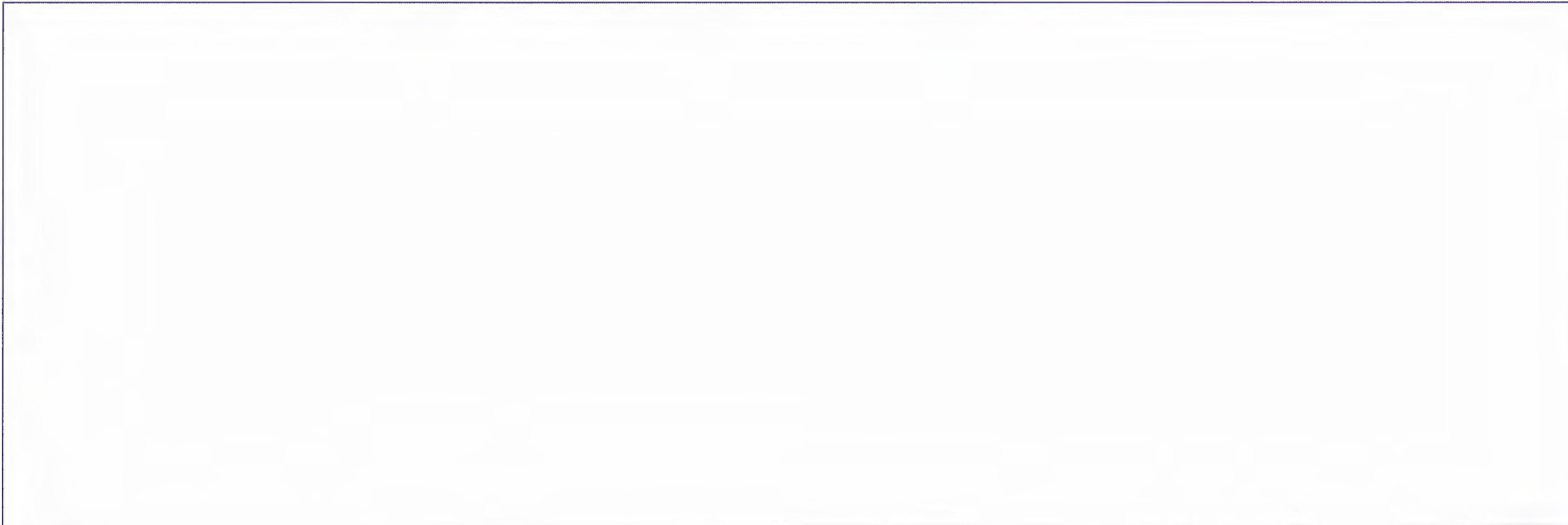
DRAWN BY:	DRAFT DATE:	APPROVED BY:
AC	03/24/15	SY

SP-1



A ENLARGED VIEW

SCALE: 1" = 5'



B N/A

SCALE: N.T.S.

PA02m
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SITE PLAN

DRAWN BY: AC	DRAFT DATE: 03/24/15	APPROVED BY: SY
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SHEET NO.
SP-2

LEGEND

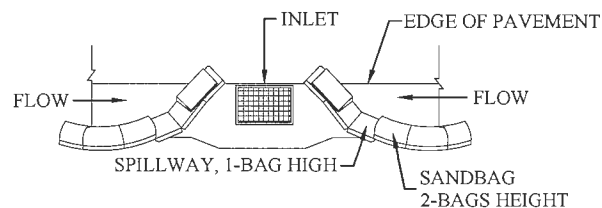
SYMBOL	DESCRIPTION
PROPOSED	
	2'x3' VAULT
	CABINET
	NEW WOOD POLE
	NEW STREET LIGHT
	PCC SIDEWALK
	TRENCH AND FIBER CONDUIT (P/T)
EXISTING	
	EXISTING UTILITY POLE
	EXISTING STREET LIGHT
	EXISTING VAULT/HANDHOLE
	EXISTING PEDESTAL
	STEEL POLE
	STATION POINTS (100' INCREMENTS)
	EXISTING CURB RAMP
	EXISTING CURB & GUTTER
	EXISTING RIGHT OF WAY
	EXISTING CENTER LINE
	EXISTING CENTER LINE

EROSION AND SEDIMENT CONTROL NOTES:

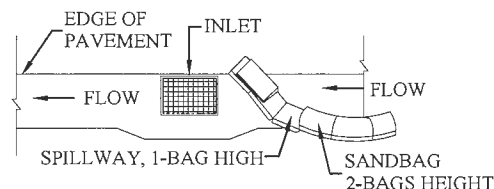
TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

- ALL REQUIREMENTS OF THE CITY "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED PUBLIC IMPROVEMENTS CONSISTENT WITH THE EROSION CONTROL PLAN AND/OR WATER POLLUTION CONTROL PLAN (WPCP), IF APPLICABLE.
- FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED IMPROVEMENT PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

STORMDRAIN INLET PROTECTION



TYPICAL PROTECTION FOR INLET WITH OPPOSING FLOW DIRECTIONS



TYPICAL PROTECTION FOR INLET WITH SINGLE FLOW DIRECTION

NOTES:

- INTENDED FOR SHORT - TERM USE.
- USE TO INHIBIT NON - STORM WATER FLOW.
- ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
- BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
- NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

NOTES:

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- SIDEWALK SHALL BE RESTORED/REPLACED PER CITY STANDARD DRAWINGS.
- PEDESTRIAN RAMP WILL NOT BE DISTURBED.

ROW GROUND CONSTRUCTION NOTES:

- GROUND CONSTRUCTION TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, FEDERAL, GO95 AND GO128 STANDARDS AND REGULATIONS.
- CALL USA 48 HOURS PRIOR TO EXCAVATING AT (800) 227-2600 OR 811.
- ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
- ALL EQUIPMENT TO BE BONDED.
- METERING CABINET REQUIRES 36" CLEARANCE AT DOOR OPENING.
- CAULK CABINET BASE AT PAD.

NORMAL LOCATION OF UNDERGROUND UTILITIES NOTES:

- LOCATION AND DEPTH OF EXISTING AND PROPOSED UTILITIES MUST BE PROVIDED BY THE SUBDIVIDER AND SHOWN ON ANY PLANS SUBMITTED TO THE DEPT. OF PUBLIC WORKS FOR APPROVAL.
- CHANGES MAY BE PERMITTED BY THE DEPT. OF PUBLIC WORKS IN CASES OF CONFLICTING FACILITIES.
- CONFLICTS BETWEEN UTILITY COMPANIES FACILITIES, EXISTING AND PROPOSED, MUST BE MUTUALLY RESOLVED BY THE UTILITY COMPANIES.
- FOR COMMERCIAL SIDEWALKS, THE FIRE HYDRANT SHALL BE PLACED WITHIN THE SIDEWALK 1'-6" BEHIND FACE OF CURB.
- MAXIMUM 2" DIAMETER GAS MAINS MAY BE PLACED IN JOINT UTILITIES TRENCH SUBJECT TO APPROVAL OF CITY ENGINEER (IN TRACTS).

CALIFORNIA STATE CODE COMPLIANCE:

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

- CALIFORNIA ADMINISTRATIVE CODE (INCLUDING TITLES 24 & 25) 2010
- 2010 CALIFORNIA BUILDING CODES WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 CALIFORNIA MECHANICAL CODE
- ANSI/EIA-222-F LIFE SAFETY CODE NFPA-101
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES

ACCESSIBILITY REQUIREMENTS:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS DO NOT APPLY IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.

FCC NOTE:

THIS WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.

PA02m
(OPTION 3)

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V243288

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PROW ADJACENT TO
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DETAILS & NOTES

DRAWN BY: AC DRAFT DATE: 03/24/15 APPROVED BY: SY

SHEET NO.

D-1

ABBREVIATIONS

A/C	ASPHALT CURB
B.O.C.	BACK OF CURB
B/EOP	BACK OF EDGE OF PAVEMENT
C&G	CURB & GUTTER
CL	CENTERLINE
EX	EXISTING
EOP	EDGE OF PAVEMENT
F.O.C.	FACE OF CURB
F/EOP	FACE OF EDGE OF PAVEMENT
PL	PROPERTY LINE
R/W	RIGHT OF WAY
S/B	SUBDIVISION BOUNDARY

**MAXIMUM PERMISSIBLE EXPOSURE (MPE)
PLACARD**

NOTICE



Radio Frequency fields beyond this point may exceed the FCC general public exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307(b)

1 SCALE N.T.S.

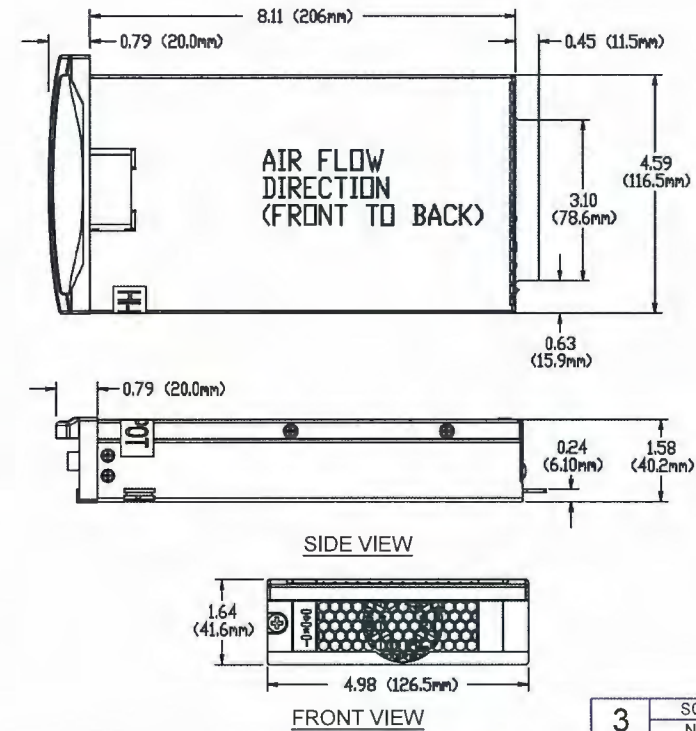
**AMPHENOL 65° TRI BAND FET PANEL ANTENNA
(Model # HTXCWW63111414Fxy0)**

Electrical Characteristics		Frequency Bands				
		695-805	805-950	1710-1880	1850-1980	1900-2170
Polarization		±45°			±45°	
Horizontal beamwidth		75°	70°	85°	70°	75°
Vertical beamwidth		42°	40°	18°	18°	14°
Gain		10.5 dBi	11.0 dBi	13.5 dBi	14.0 dBi	14.0 dBi
Electrical downtilt (Other tilts available upon request)		(y) 0			(y) 0	
Impedance		50Ω				
VSWR		≤1.5:1			≤1.5:1	
Front-to-back ratio		> 20 dB	> 20 dB	> 25 dB	> 25 dB	> 25 dB
Isolation between ports		> 25 dB				
Input power		500 W			300 W	
IM3 (2x20W carriers)		< -150 dBc			< -150 dBc	
Lightning protection		Direct Ground				
Connector(s)		6 Ports / 7/16 DIN / Female / Bottom				
Mechanical Characteristics						
Dimensions Length x Width x Depth		669 x 305 x 180 mm			23.2 x 12.0 x 7.1 in	
Weight without mounting brackets		5.9 kg			13 lbs	
Survival wind speed		241 km/hr			150 mph	
Wind area		Front: 0.18 m²; Side: 0.11 m²		Front: 1.9 ft²; Side: 1.1 ft²		
Wind loads (160 km/hr or 100 mph)		Front: 219 N; Side: 129 N		Front: 49 lbf; Side: 29 lbf		



2 SCALE N.T.S.

SPS TE RECTIFIER



3 SCALE N.T.S.

**ERICSSON MRRU
(MICRO RADIO REMOTE UNIT)**

Specifications

- Band 4
- Outdoor or indoor installation
- Output power 2x125mW -> 2 x 5 W
- 2 CPRJ ports
- 2 external alarm inputs
- Dimensions: 16.5" x 9.8" x 6.5" (HWD)
- Weight: 10 Kgs/22 lbs, Volume: 11L
- Temperature range: -40° to +131° F
- Environmental protection at IP55
- DC -48V or integrated AC Power Supply

Recommended Clearance Distance

- Side-by-side (2 units): preliminary 50 mm
- Above-below (2 units on top of each other): preliminary 400 mm
- Top-ceiling: preliminary 400 mm
- Bottom-floor: preliminary 300 mm



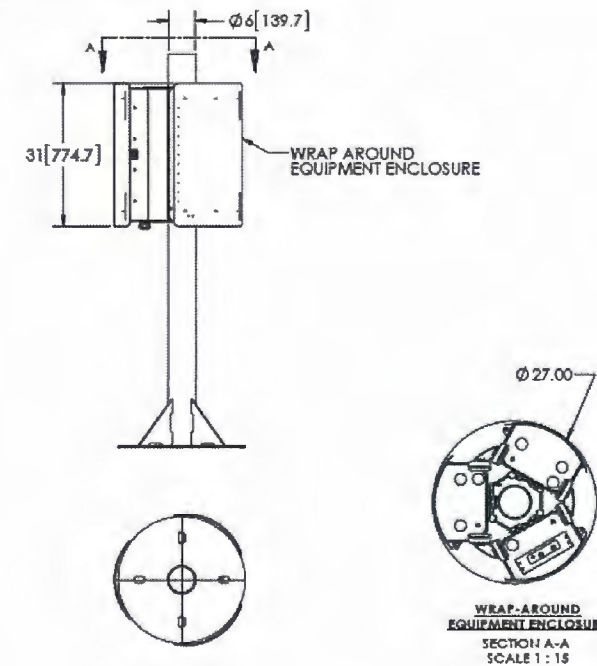
4 SCALE N.T.S.

WRAP AROUND ENCLOSURE



System Dimensioning & Configuration

Height / Diameter	31.0 in. (775mm) / 27.0 in. (680mm) Assumes pole diameter of 8 in. (140mm)
Loaded Weight	Approximately 132 lbs. (60kg) with two 5W radios and Ethernet switch installed
Approximate wind loading	Max. 457 M (103 LBF) at 150 km/hr.
Min. / Max. Acceptable Pole Diameter	4.5-8 in. (113-203mm)
Finish	UV-resistant powder coat, standard finish is light gray or charcoal; other colors based upon request
Power	Determined by customer-provided equipment



5 SCALE N.T.S.

**PA02m
(OPTION 3)**

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DETAILS & NOTES

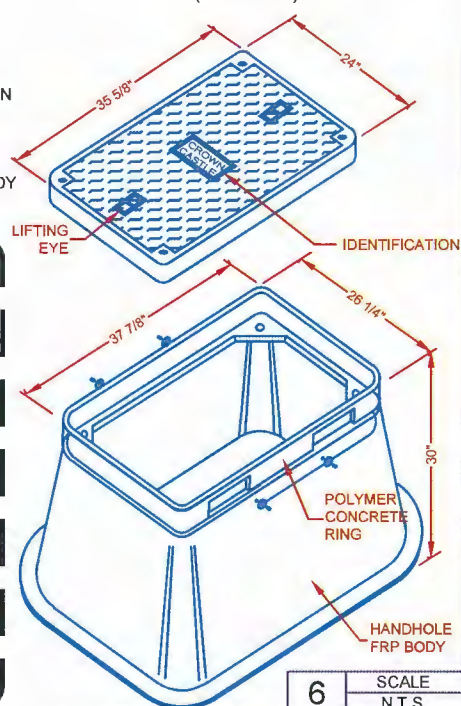
DRAWN BY: AC	DRAFT DATE: 03/24/15	APPROVED BY: SY
SHEET NO.		

D-2

COVER FEATURES:
 * PW - 10,400 LBS. WHEEL LOAD ON 10" X 10" PLATE.
 * APPROX. WT. = 72 LBS.
 * POLYMER CONCRETE
 * ONE PIECE COVER
 * FOUR BOLT DOWN
 * COLOR: CONCRETE GREY
 * NON - SKID SURFACE
 * LID TO HAVE H-20 TRAFFIC LOAD FRICTION COEFFICIENT TO BE 0.5 OR MORE

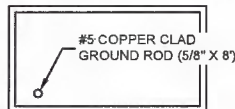
HANDHOLE FEATURES:
 * POLYMER CONCRETE RING AND FIBERGLASS REINFORCED POLYMER BODY
 * COLOR OF RING: CONCRETE GREY
 * APPROX. WT. = 123 LBS.

**VAULT DETAIL
(FLUSH MOUNT)
(PRIVATE)**

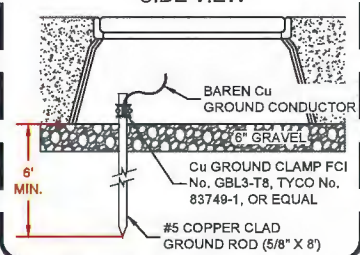


6 SCALE N.T.S.

**GROUND ROD INSTALLATION
TOP VIEW**



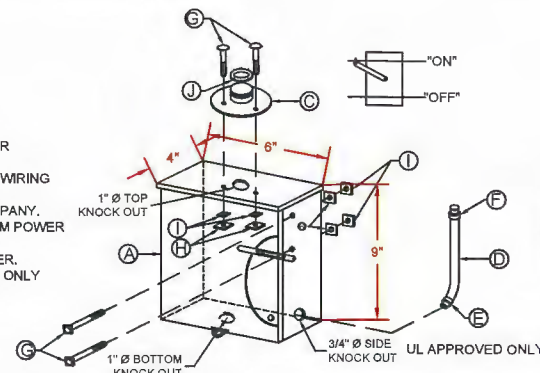
SIDE VIEW



6 SCALE N.T.S.

**DISCONNECT BOX
TYPICAL SECTION: N.T.S.**

- NOTES:**
 1. MAIN DISCONNECT BREAKER.
 2. MANUFACTURER SQUARE D - (OR EQUIVALENT).
 3. BREAKER SIZE AND INCIDENTAL WIRING SPECIFIED BY CLIENT.
 4. KAIC SPECIFIED BY POWER COMPANY.
 5. 1" CLOSE NIPPLE FOR FEED FROM POWER SOURCE.
 6. 3/4" LIQUID FLEX TO TRANSCEIVER.
 7. CABINET LOCKABLE FOR CLIENT ONLY

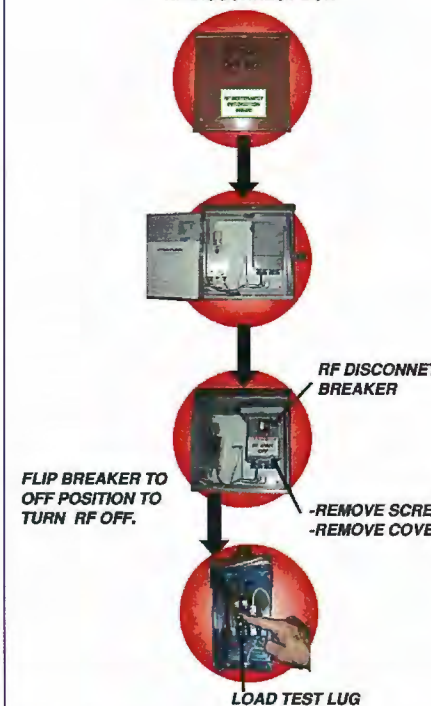


PARTS LIST		
CALLOUT	QTY	DESCRIPTION
A	1	CABINET WATER PART #
B	1	BREAKER AMP KAIC 2 POLE 120/140 VAC SINGLE PHASE
C	1	1" CLOSE NIPPLE STRAIGHT
D	1	3/4" X 4" LIQUID TIGHT METALLIC FLEX CONDUIT WITH CONNECTOR
E	1	3/4" LIQUID TIGHT FLEX CONNECTOR 45°
F	1	3/4" LIQUID TIGHT FLEX CONNECTOR - STRAIGHT
G	4	5/16" X 1" BOLT - STAINLESS STEEL
H	4	5/16" LOCK WASHER - STAINLESS STEEL
I	4	5/16" NUT - STAINLESS STEEL
J	1	1" LOCK NUT

7 SCALE N.T.S.

**PG&E SHUTDOWN PROCEDURES
(INSTRUCTIONS FOR DE-ENERGIZING THE SITE)**

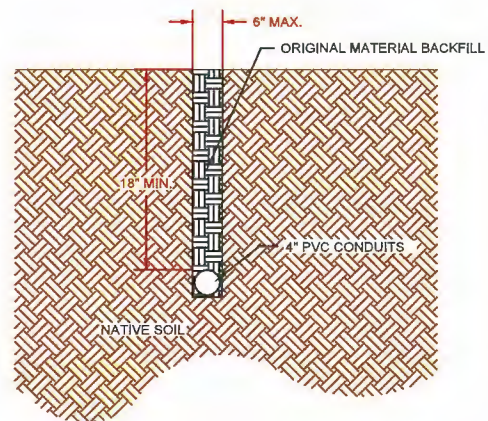
RF DISCONNECT BOX



- CALL CROWN CASTLE NETWORK OPERATIONS CENTER AT 1-888-632-0931.
- IDENTIFY **RF DISCONNECT BOX**.
- OPEN **RF DISCONNECT BOX**.
- OPEN COVER FOR RF DISCONNECT BREAKER.
- TURN RF DISCONNECT BREAKER TO THE OFF POSITION TO DE-ENERGIZE NODE.
- TO CONFIRM THAT THE SITE HAS BEEN DE-ENERGIZED, PG&E CREW / TECHNICIAN CAN REMOVE THE SINGLE SCREW ON THE BOTTOM RIGHT COVER OF THE RF DISCONNECT BREAKER AND REMOVE THE COVER TO EXPOSE THE SOURCE AND LOAD TERMINALS ON THE SWITCH AND THEN CHECK FOR NO POTENTIAL BETWEEN THE LOAD TERMINAL AND GROUND TO VERIFY THAT NO RF SIGNAL CAN BE GENERATED.
- NOTIFY CROWN CASTLE NETWORK OPERATIONS CENTER THAT WORK IS COMPLETE.

8 SCALE N.T.S.

**IN DIRT - PRIVATE
TYPICAL SECTION
(N.T.S.)**

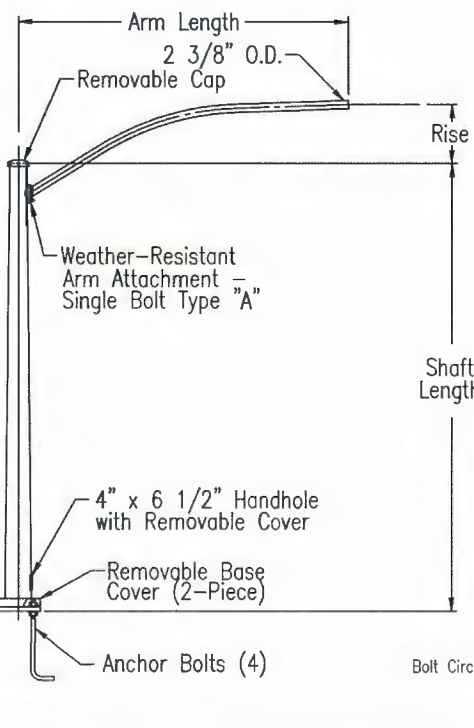


INSTALLATION NOTES:

- CUT 6" MAX. WIDTH X 18" + DEPTH TRENCH
- BACKFILL WITH THE ORIGINAL MATERIAL FROM THE TRENCH
- RESTORE THE SURFACE

9 SCALE N.T.S.

Series A Pipe Luminaire Arm



POLE CAP DETAIL
Removable pole cup cap.



HANDHOLE DETAIL
Standard handhole assembly 4" x 6-1/2"

- Pole Design is in accordance to the 2009 AASHTO Specifications for Structural Supports of Highway Signs, Luminaires, and Traffic Signals.
- Weights are exclusive of anchor bolts.
- For twin arms or high rise pipe arm, consult Ameron.

ORDERING NOMENCLATURE
 SERIES _____ LUMINAIRE ARM
 A-308
 SHAFT LENGTH _____

10 SCALE N.T.S.

**PA02m
(OPTION 3)**

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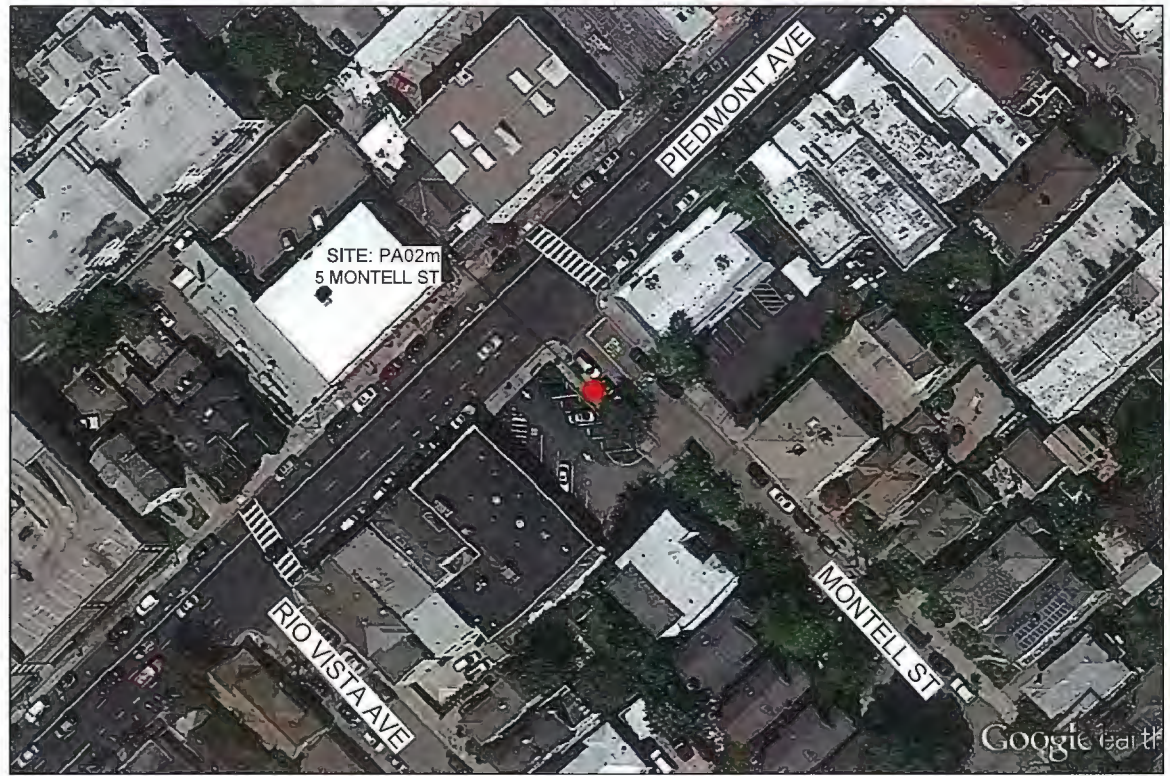
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DETAILS & NOTES

DRAWN BY: AC DRAFT DATE: 03/24/15 APPROVED BY: SY
SHEET NO.

D-3



A KEY MAP



B 9 O'CLOCK VIEW



C 12 O'CLOCK VIEW



D 3 O'CLOCK VIEW

PA02m
(OPTION 3)

CROWN CASTLE PROJECT NO.
V243288

CLIENT:




CROWN CASTLE
695 RIVER OAKS PARKWAY
SAN JOSE, CA 95134
www.crowncastle.com

PREPARED BY:



Coastal Communications
Telecommunications Engineering
5841 EDISON PLACE, SUITE 110
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936
www.coastalcomminc.com

PROPRIETARY INFORMATION
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TICKET #

REVISION / ISSUE	DATE
SET UP INDIVIDUAL PACKET	9/29/15

SITE NAME & ADDRESS:

PROW ADJACENT TO
5 MONTELL ST
OAKLAND, CA

PHOTOS

DRAWN BY: AC	DRAFT DATE: 03/24/15	APPROVED BY: SY
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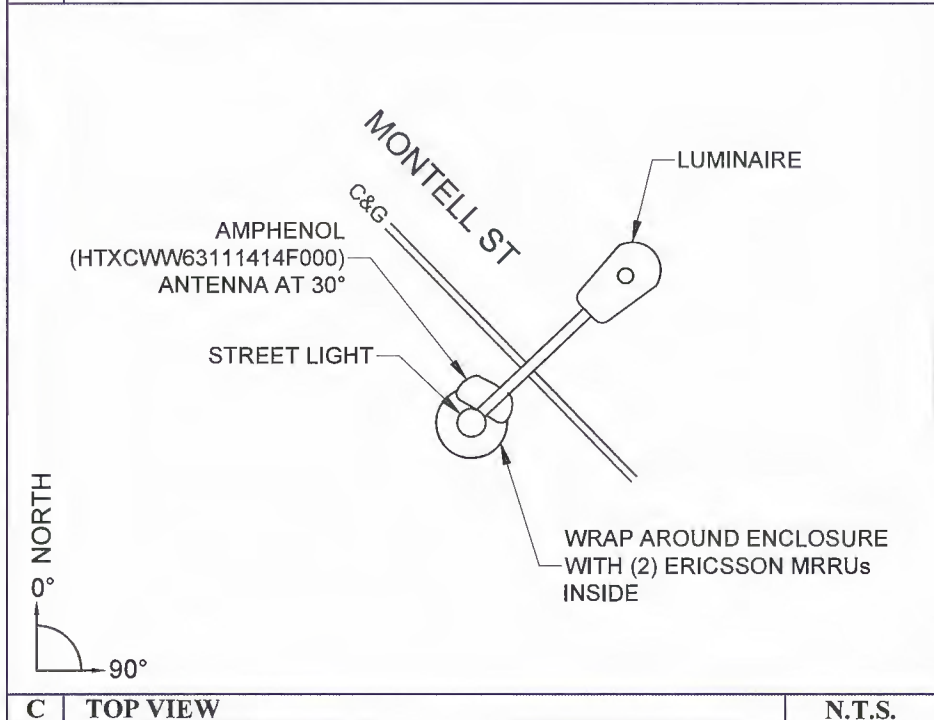
SHEET NO.
P-1.1

TOP OF NEW POLE: 24'
 TOP OF ANTENNA: 23'
 RAD CENTER: 22'
 AZIMUTH: 30°
 PROFILE VIEW: 3 O' CLOCK

A NOTES

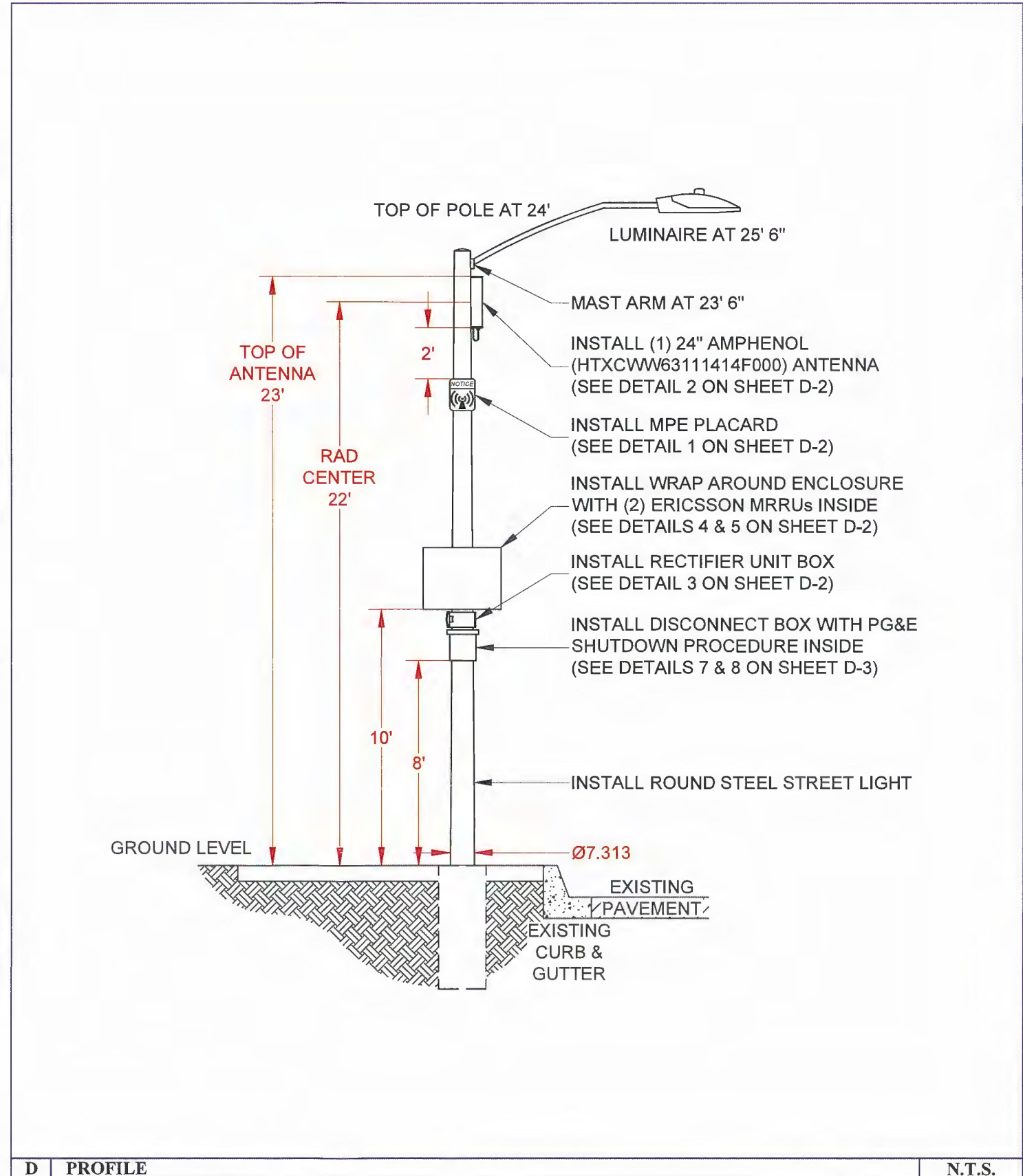
- INSTALL ROUND STEEL STREET LIGHT.
- INSTALL DISCONNECT BOX WITH PG&E SHUTDOWN PROCEDURE INSIDE.
- INSTALL RECTIFIER UNIT BOX.
- INSTALL MPE PLACARD.
- INSTALL WRAP AROUND ENCLOSURE WITH (2) ERICSSON MRRUs INSIDE.
- INSTALL (1) 24" AMPHENOL (HTXCWW63111414F000) ANTENNA.
- INSTALL CROWN CASTLE 2' X 3' VAULT WITH CONDUITS.
- STREET LIGHT, ANTENNAS, & EQUIPMENT TO BE PAINTED TO MATCH SURROUNDING POLES.

B NEW CONSTRUCTION NOTES



C TOP VIEW

N.T.S.



D PROFILE

N.T.S.

PA02m
 (OPTION 3)

CROWN CASTLE PROJECT NO.
 V243288

CLIENT:



PREPARED BY:



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REVISION / ISSUE	DATE

SITE NAME & ADDRESS:
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 5 MONTELL ST
 OAKLAND, CA

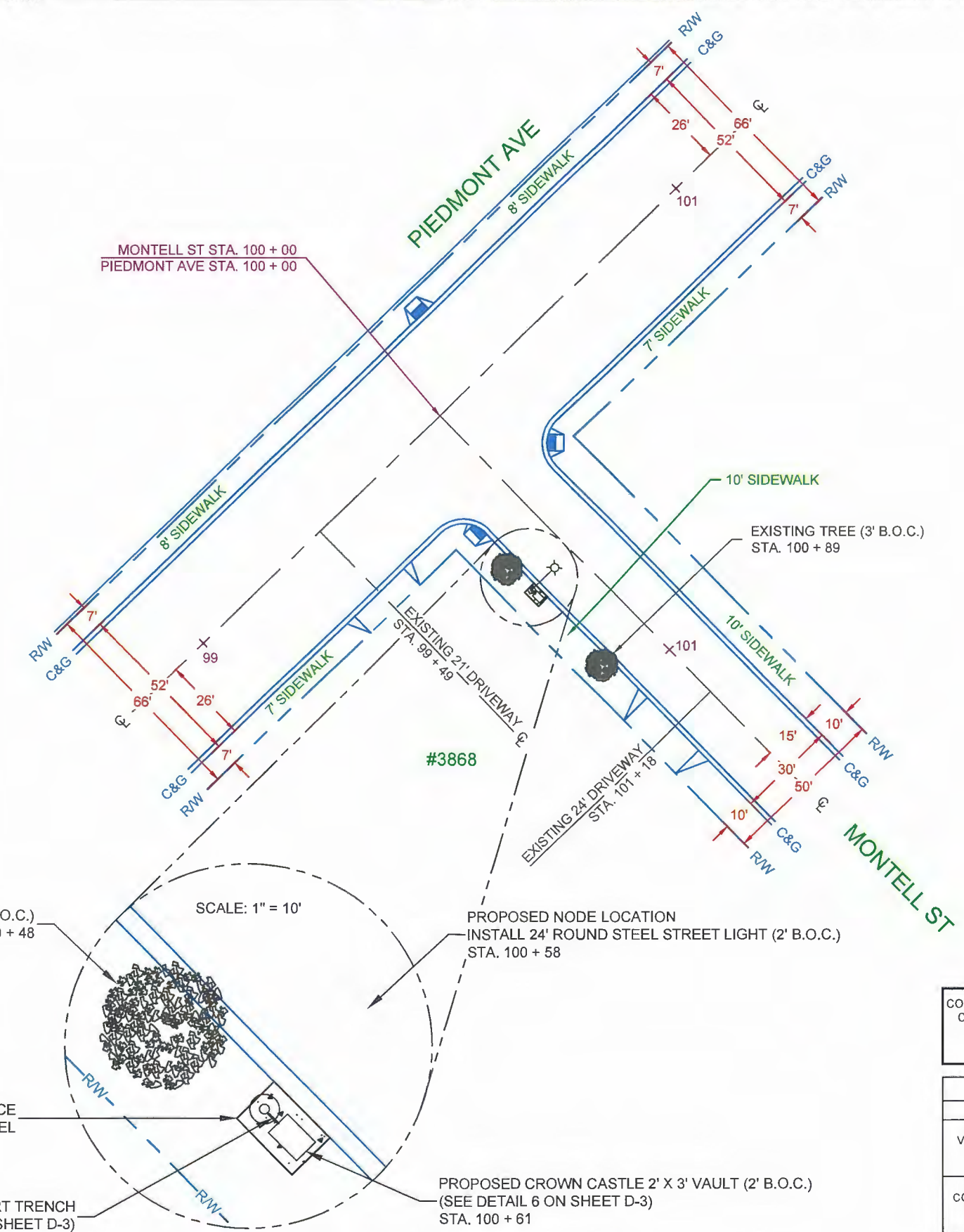
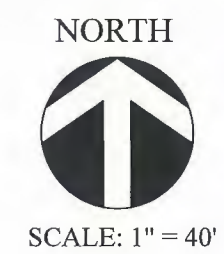
PROFILE

DRAWN BY: AC	DRAFT DATE: 03/24/15	APPROVED BY: SY
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SHEET NO.
P-1.3

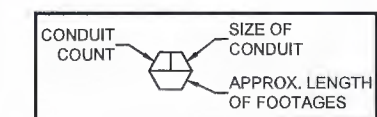
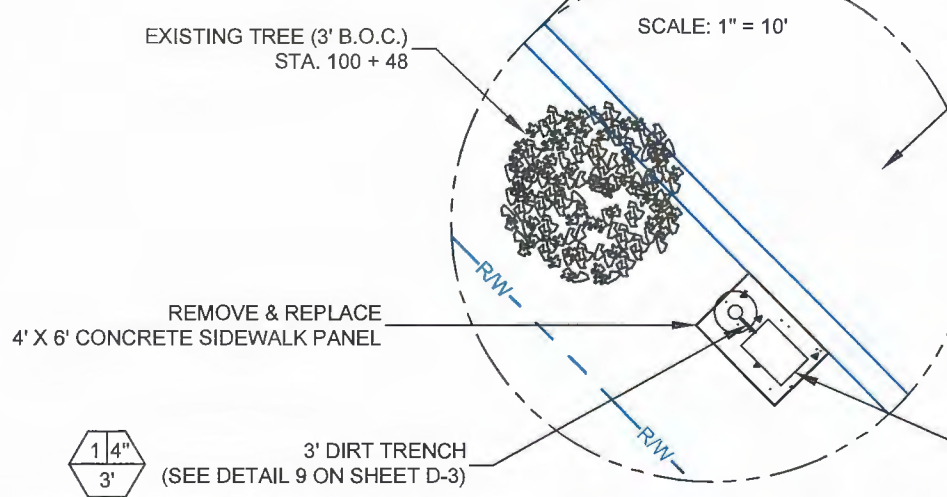
NOTES:

1. CONTRACTOR TO POTHOLE ALL UTILITY CROSSINGS.
2. CONTRACTOR TO PLACE SANDBAGS AROUND ANY/ALL STORM DRAIN INLETS TO PREVENT CONTAMINATED WATER.
3. SPOILS PILE WILL BE COVERED AND CONTAINED AND STREET WILL BE SWEEPED AND CLEANED AS NEEDED.
4. CONTRACTOR TO REPAIR DAMAGED PUBLIC IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER.
5. CURB & GUTTER TO BE PROTECTED IN PLACE. SIDEWALK TO BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
6. THE CONTRACTOR SHALL RESTORE THE ROADWAY BACK TO ITS ORIGINAL CONDITION SATISFACTORY TO THE CITY ENGINEER INCLUDING, BUT NOT LIMITED TO PAVING, STRIPING, BIKE LANES, PAVEMENT LEGENDS, SIGNS, AND TRAFFIC LOOP DETECTORS.



COORDINATES	
LATITUDE:	37.82473°
LONGITUDE:	-122.25436°

FOOTAGE TOTALS	
ASPHALT TRENCH	0'
DIRT TRENCH	3'
BORE	0'
PUNCH THRU	0'
TOTAL	3'
PCC SIDEWALK TOTAL	24 SQ. FT.



BILL OF MATERIALS		
DESCRIPTION	QTY	
VAULTS (PVT)	17" X 30"	0
	2' X 3'	1
	3' X 5'	0
CONDUIT (PVT)	1" PVC	0'
	3" PVC	0'
	4" PVC	3'

PA02m
(OPTION 3)

CROWN CASTLE PROJECT NO.
V243288

CLIENT:

695 RIVER OAKS PARKWAY
SAN JOSE, CA 95134
www.crowncastle.com

PREPARED BY:

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PHONE: (760) 929-0910
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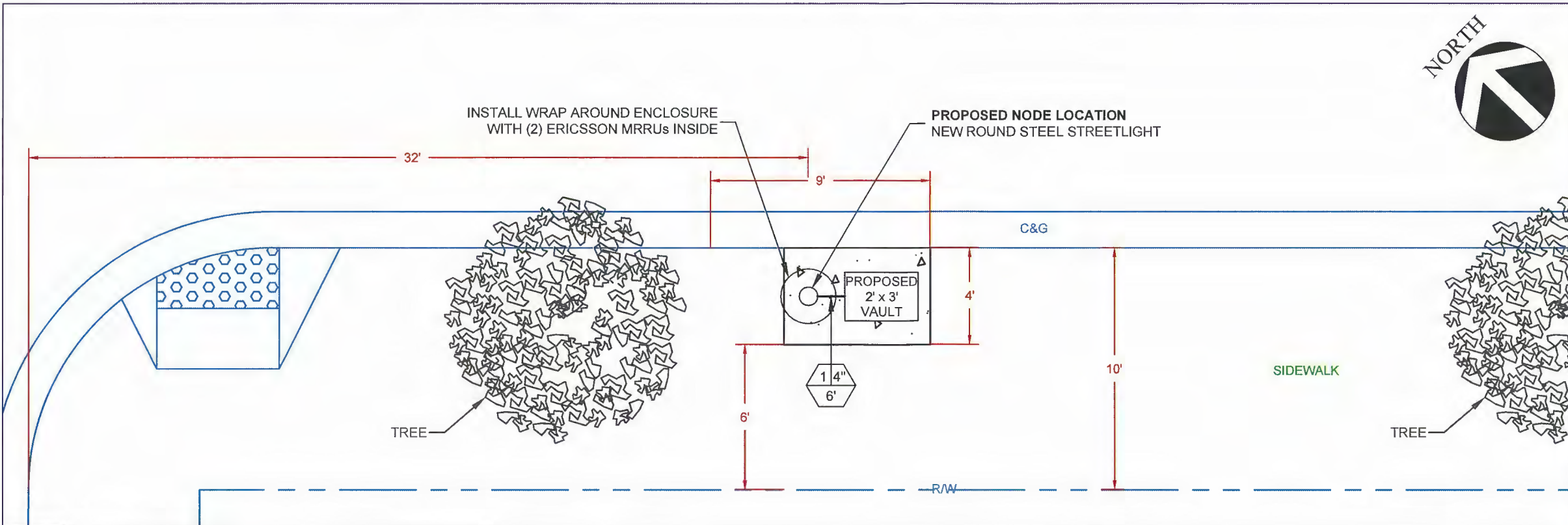
SET UP INDIVIDUAL PACKET	9/29/15
REVISION / ISSUE	DATE

SITE NAME & ADDRESS:

PROW ADJACENT TO
5 MONTELL ST
OAKLAND, CA

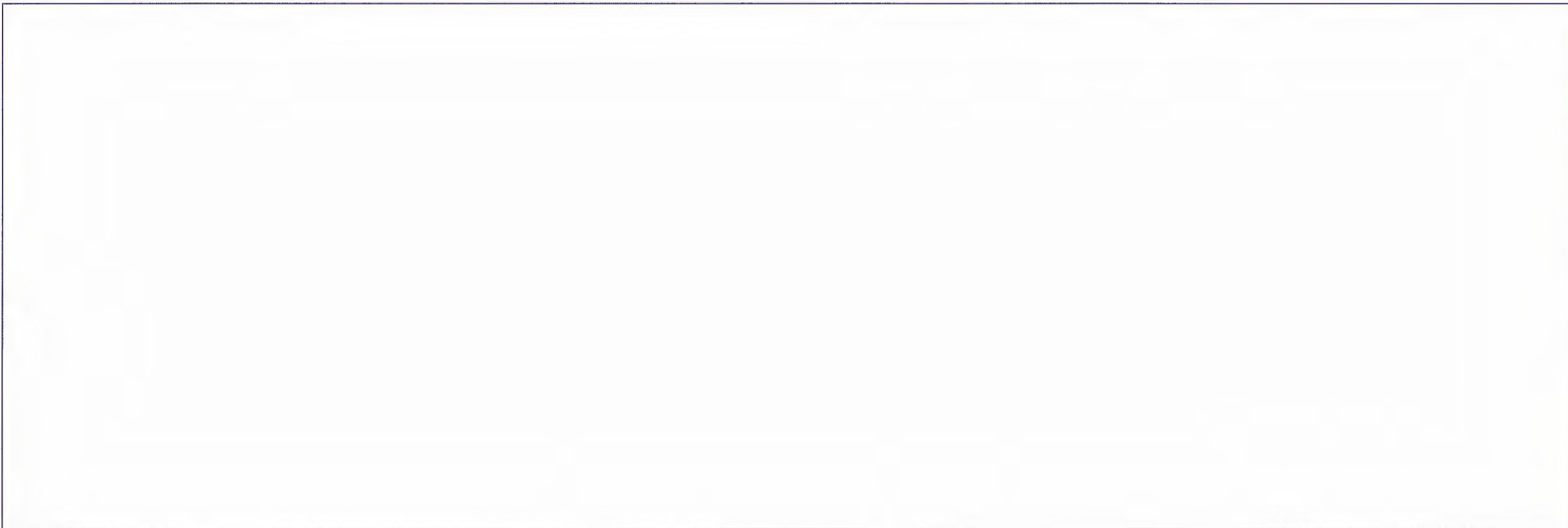
SITE PLAN

DRAWN BY: AC	DRAFT DATE: 03/24/15	APPROVED BY: SY
SHEET NO. SP-1		



A ENLARGED VIEW

SCALE: 1" = 5'



B N/A

SCALE: N.T.S.

PA02m
(OPTION 3)

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CLIENT:

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TICKET #

REVISION / ISSUE	DATE
SET UP INDIVIDUAL PACKET	9/29/15

SITE NAME & ADDRESS:

PROW ADJACENT TO
5 MONTELL ST
OAKLAND, CA

SITE PLAN

DRAWN BY: AC	DRAFT DATE: 03/24/15	APPROVED BY: SY
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SHEET NO.
SP-2

ATTACHMENT A



Proposed Site PA02 Option 1



ATTACHMENT A

Project Description

Crown Castle Small-Cell Telecom Facility
PROW Adjacent to:
5 Montell St., Oakland, CA (PA02m)

Project Description

The proposal is for a new, unmanned, pole-mounted "small cell" facility. This project involves the installation of a new utility pole in the public right-of-way, as part of a distributed antennas system that will improve wireless coverage in the community. The equipment on the pole will be painted to match and will be compatible with other poles in the area. The new utility pole will not adversely affect abutting and surrounding neighborhoods and will have no effect on traffic. Furthermore, this project fulfills the criteria set forth in Section 17.136.050 of the Oakland Planning Code in that the pole will match other wood poles in the area.

The specifically includes:

- Install 24' round steel street light.
- Install disconnect box with PG&E shutdown procedure inside.
- Install rectifier unit box.
- Install MPE placard.
- Install Mush-41 shroud with (2) Ericsson MRRUs inside.
- Install (1) 24" Amphenol (HTXCWW63111414F000) antenna.
- Install Crown Castle 2' x 3' vault with conduits.
- Street light, antennas and equipment to be painted to match surrounding poles.

Statement of Operations

The proposed facility will use existing electrical and telephone services, which are readily available to the site. No nuisances will be generated by the proposed facility, nor will the facility injure the public health, safety, morals or general welfare of the community. The technology does not interfere with any other forms of communication devices whether public or private.

Upon completion of construction, fine-tuning of the facility may be necessary, meaning the site will be adjusted once or twice a month by a service technician for routine maintenance. No additional parking spaces are needed at the project site for maintenance activities. The site is entirely self-monitored and connects directly to a central office where sophisticated computers alert personnel to any equipment malfunction or breach of security.

Because the facility will be un-staffed, there will be no regular hours of operation and no impact to existing traffic patterns. Existing public roads will provide access to the technician who arrives infrequently to service the site. No on-site water or sanitation services will be required as a part of this proposal.

1. Street use permit shall be obtained by contractor prior to commencing work.
2. All work to be conducted in the right of way.
3. All disturbed landscaping shall be replaced to similar existing conditions.
4. Any sidewalk closure shall be coordinated with the city and proper signing will be placed.
5. No materials or equipment shall be stored on private property or block access to private property.
6. Cleanup of site will be completed each evening and the site will be returned to existing conditions at the completion of construction.

Zoning Analysis

Crown Castle is full facilities based local exchange carrier, they have been granted a certificate of public convenience and necessity (CPNC). Crown Castle has the same rights as any other public utility. The same rights that are granted to PG&E, Comcast and AT&T need to be shared by Crown Castle. As a public utility these projects are technically exempt from any discretionary planning review. Crown cannot be discriminated in any way and needs to be afforded the same rights as any other public utility. Crown Castle is submitting this application to the city to allow for comment and review. Crown wants to maintain a good relationship with the city and continue to work with them on the design and location.

Alternative Site Analysis

No rooftop locations or other alternative locations were sought. Mr. Scott Miller, Planning Manager, expressed the desire of the City of Oakland that Crown Castle locate these small cell installations off of Piedmont Avenue. Therefore, this project and the remaining 4 small-cell projects will be installed on poles not directly on Piedmont Avenue, along with (1) project which is only an equipment cabinet install to power the NODE system. The proposal of these particular projects are to cover a very small concentrated area, and are designed to be innocuous to blend into the surrounding public infrastructure.

Compliance with Federal Regulations

Please be advised that Crown Castle reserves all of its rights under California Public Utilities Code § 7901, the federal Telecommunications Act, Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012 (codified at 47 U.S.C. § 1455(a)), the Federal Communications Commission ("FCC") declaratory ruling In Re: Petition for Declaratory Ruling to Clarify Provisions of Section 332(c)(7)(B) to Ensure Timely Siting Review, Etc., FCC 09-99 (FCC November 18, 2009), and the FCC rules adopted in In Re: Acceleration of Broadband Deployment by Improving Wireless Facilities Siting Policies, Etc., FCC 14-153 (FCC October 17, 2014), the licenses granted to it by the FCC, and all of its other rights that arise under any federal or state statute, regulation, or other legal authority (collectively, "Federal and State Rights"). Among other Federal and State Rights, we note that California Public Utilities Code § 7901 grants a statewide franchise to telephone corporations to place telephone equipment in the public rights-of-way and that use of the rights-of-way by telephone corporations is a matter of statewide concern that is not subject to local regulation except for limited regulation of the time, place, and manner of such use. In addition, the Telecommunications Act limits the authority of local jurisdictions by, among other restrictions, requiring approval within a reasonable period of time. In submitting this application, Crown Castle expressly reserves all of its Federal and State Rights, including, without limitation, its rights under federal and state law to challenge the requirement for a discretionary permit for its proposed installation in the public right-of-way. Neither the act of submitting the application nor anything contained therein shall be construed as a waiver of any such rights.

Please send all written requests for additional information regarding this application to:

Bob Gundermann / Jason Osborne

Beacon Development, LLC

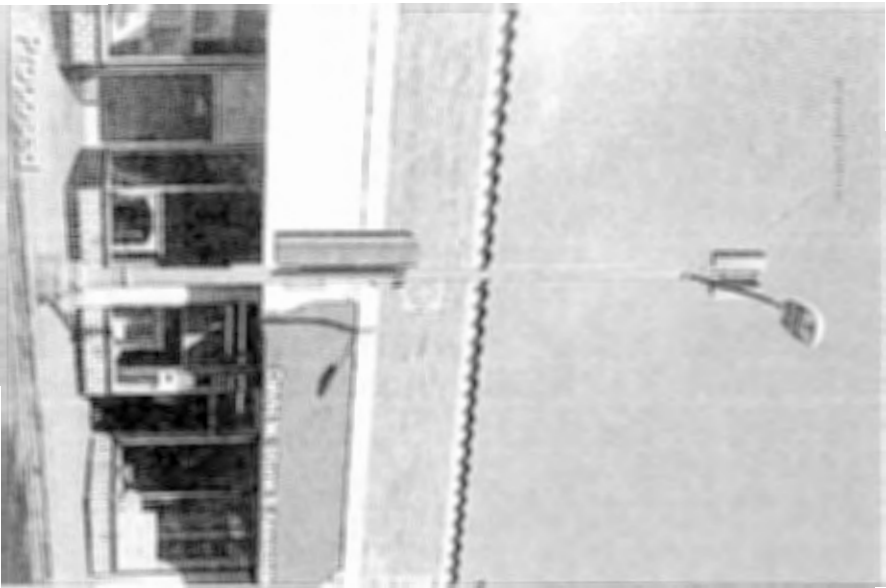
925-899-1999 / 415-559-2121

bob@beacondev.net & Jason@beacondev.net

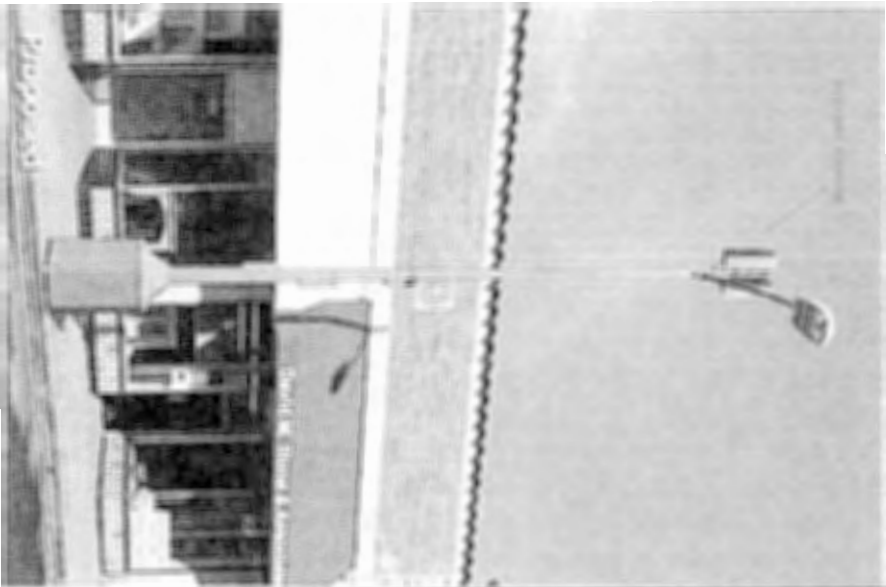
ATTACHMENT A

Storefront Configurations

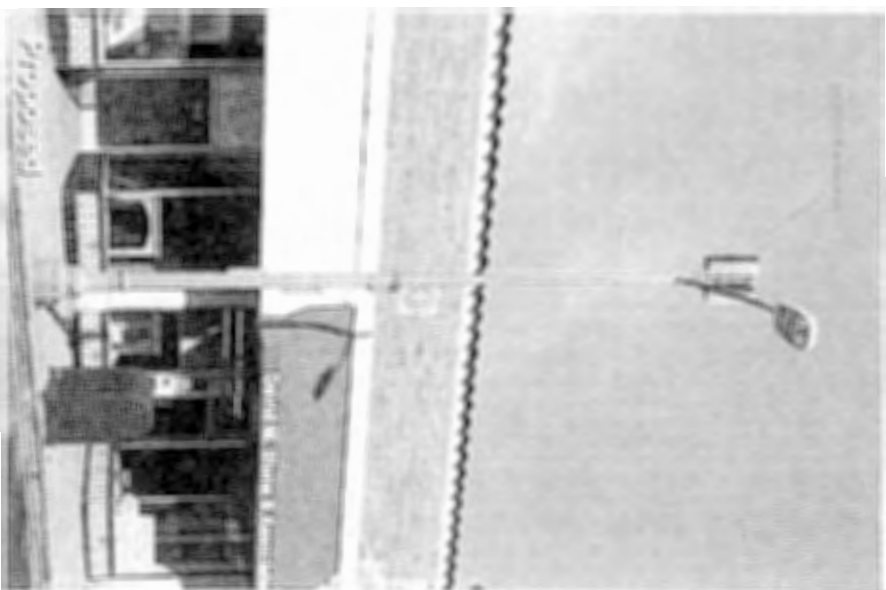
A



B



C



ATTACHMENT B

JERROLD T. BUSHBERG Ph.D., DABMP, DABSNM, FAAPM, FHPS
◆HEALTH AND MEDICAL PHYSICS CONSULTING◆

7784 Oak Bay Circle Sacramento, CA 95831
(800) 760-8414–jbushberg@hampc.com

Ernesto Figueroa
Sr. RF Engineer
Crown Castle
695 River Oaks Parkway
San Jose, CA 95134

July 19, 2015

Introduction

At your request, I have reviewed the technical specifications and calculated the maximum radiofrequency, (RF), power density from the proposed Crown Castle nodes to be located in the public right-of-way. These nodes will be used for wireless telecommunications transmission and reception utilizing one directional Amphenol antennae model #HTXCWW63111414 mounted to a street light, traffic light or similar structure. Each of the panel antennae used in this network is designed to transmit with a maximum input power of up to 6.32 watts, with a gain of up to 8.35 dBd at approximately 700 MHz and 6.32 watts with a gain of up to 11.85 dBd at approximately 2,100 MHz. The distance from the antenna center to the ground for all nodes will be at least 22.0 feet. An example of the site configurations is shown in attachment one. The antenna specification details are depicted in attachment two. This analysis represent the worst case of any of the proposed nodes that are utilizing these transmission and antennae specifications. There will be 5 nodes of this configuration proposed for Oakland, CA (see Appendix A-0).

Calculation Methodology

Calculations at the level of the antenna were made in accordance with the cylindrical model recommendations for near-field analysis contained in the Federal Communications Commission, Office of Engineering and Technology Bulletin 65 (OET 65) entitled "Evaluating Compliance with FCC-Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields." RF exposure calculations at ground level were made using equation 10 from the same OET document. Several assumptions were made in order to provide the most conservative or "worse case" projections of power densities. Calculations were made assuming that all channels were operating simultaneously at their maximum design effective radiated power. Attenuation (weakening) of the signal that would result from surrounding foliage or buildings was ignored. Buildings or other structures can reduce the signal strength by a factor of 10 (i.e., 10 dB) or more depending upon the construction material. In addition, for ground level calculations, the ground or other surfaces were considered to be perfect reflectors (which they are not) and the RF energy was assumed to overlap and interact constructively at all locations (which they would not) thereby resulting in the calculation of the maximum potential exposure. In fact, the accumulations of all these very conservative assumptions, will significantly overestimate the actual exposures that would typically be expected from such a facility. However, this method is a prudent approach that errs on the side of safety.

RF Safety Standards

The two most widely recognized standards for protection against RF field exposure are those published by the American National Standards Institute (ANSI) C95.1 and the National Council on Radiation Protection and measurement (NCRP) report #86.

The NCRP is a private, congressionally chartered institution with the charge to provide expert analysis of a variety of issues (especially health and safety recommendations) on radiations of all forms. The scientific analyses of the NCRP are held in high esteem in the scientific and regulatory community both nationally and internationally. In fact, the vast majority of the radiological health regulations currently in existence can trace their origin, in some way, to the recommendations of the NCRP.

All RF exposure standards are frequency-specific, in recognition of the differential absorption of RF energy as a function of frequency. The most restrictive exposure levels in the standards are associated with those frequencies that are most readily absorbed in humans. Maximum absorption occurs at approximately 80 MHz in adults. The NCRP maximum allowable continuous occupational exposure at this frequency is 1,000 $\mu\text{W}/\text{cm}^2$. This compares to 5,000 $\mu\text{W}/\text{cm}^2$ at the most restrictive of the PCS frequencies (~1,800 MHz) that are absorbed much less efficiently than exposures in the VHF TV band.

The traditional NCRP philosophy of providing a higher standard of protection for members of the general population compared to occupationally exposed individuals, prompted a two-tiered safety standard by which levels of allowable exposure were substantially reduced for "uncontrolled " (e.g., public) and continuous exposures. This measure was taken to account for the fact that workers in an industrial environment are typically exposed no more than eight hours a day while members of the general population in proximity to a source of RF radiation may be exposed continuously. This additional protection factor also provides a greater margin of safety for children, the infirmed, aged, or others who might be more sensitive to RF exposure. After several years of evaluating the national and international scientific and biomedical literature, the members of the NCRP scientific committee selected 931 publications in the peer-reviewed scientific literature on which to base their recommendations. The current NCRP recommendations limit continuous public exposure at PCS frequencies to 1,000 $\mu\text{W}/\text{cm}^2$.

The 1992 ANSI standard was developed by Scientific Coordinating Committee 28 (SCC 28) under the auspices of the Institute of Electrical and Electronic Engineers (IEEE). This standard, entitled "IEEE Standards for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz" (IEEE C95.1-1991), was issued in April 1992 and subsequently adopted by ANSI. A complete revision of this standard (C95.1-2005) was completed in October 2005 by SCC 39 the IEEE International Committee on Electromagnetic Safety. The current version, including minor revisions, was published in March 2010. Their recommendations are similar to the NCRP recommendation for the maximum permissible exposure (MPE) to the public PCS frequencies (950 $\mu\text{W}/\text{cm}^2$ for continuous exposure at 1,900 MHz) and incorporates the convention of providing for a greater margin of safety for public as compared with occupational exposure. Higher whole body exposures are allowed for brief periods provided that no 30 minute time-weighted average exposure exceeds these aforementioned limits.

On August 9, 1996, the Federal Communications Commission (FCC) established a RF exposure standard that is a hybrid of the current ANSI and NCRP standards. The maximum permissible exposure values used to assess environmental exposures are those of the NCRP (i.e., maximum public continuous exposure at PCS frequencies of 1,000 $\mu\text{W}/\text{cm}^2$). The FCC issued these standards in order to address its responsibilities under the National Environmental Policy Act (NEPA) to consider whether its actions will "significantly affect the

quality of the human environment.” In as far as there was no other standard issued by a federal agency such as the Environmental Protection Agency (EPA), the FCC utilized their rulemaking procedure to consider which standards should be adopted. The FCC received thousands of pages of comments over a three-year review period from a variety of sources including the public, academia, federal health and safety agencies (e.g., EPA & FDA) and the telecommunications industry. The FCC gave special consideration to the recommendations by the federal health agencies because of their special responsibility for protecting the public health and safety. In fact, the maximum permissible exposure (MPE) values in the FCC standard are those recommended by EPA and FDA. The FCC standard incorporates various elements of the 1992 ANSI and NCRP standards which were chosen because they are widely accepted and technically supportable. There are a variety of other exposure guidelines and standards set by other national and international organizations and governments, most of which are similar to the current ANSI/IEEE or NCRP standard, figure one.

The FCC standards “Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation” (Report and Order FCC 96-326) adopted the ANSI/IEEE definitions for controlled and uncontrolled environments. In order to use the higher exposure levels associated with a controlled environment, RF exposures must be occupationally related (e.g., PCS company RF technicians) and they must be aware of and have sufficient knowledge to control their exposure. All other environmental areas are considered uncontrolled (e.g., public) for which the stricter (i.e., lower) environmental exposure limits apply. All carriers were required to be in compliance with the new FCC RF exposure standards for new telecommunications facilities by October 15, 1997. These standards applied retroactively for existing telecommunications facilities on September 1, 2000.

The task for the physical, biological, and medical scientists that evaluate health implications of the RF data base has been to identify those RF field conditions that can produce harmful biological effects. No panel of experts can guarantee safe levels of exposure because safety is a null concept, and negatives are not susceptible to proof. What a dispassionate scientific assessment can offer is the presumption of safety when RF-field conditions do not give rise to a demonstrable harmful effect.

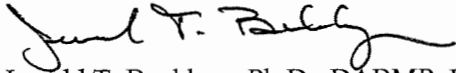
Summary & Conclusions

All Crown Castle antenna systems operating with the maximal exposure conditions characteristics as specified above and observing a 5 foot public exclusion zone directly in front of and at the same elevation as the antenna, will be in full compliance with FCC RF public and occupational safety exposure standards. These transmitters, by design and operation, are low-power devices (see appendix A-1). An RF safety notice sign, as depicted in appendix A-2 should be placed near the antenna. This sign should contain appropriate contact information and indicate that RF exposures at 5 feet or closer to the face of the antenna may exceed the FCC public exposure standard. Thus only qualified RF workers may work within the 5 foot public exclusion zone. The maximum RF exposure at ground level will not be in excess of 1.24% of the FCC public safety standard, (see appendix A-3). A chart of the electromagnetic spectrum and a comparison of RF power densities from various common sources is presented in figures two and three respectively in order to place exposures from wireless telecommunications systems in perspective.

Given the low levels of radiofrequency fields that would be generated from all Crown Castle directional antenna installations of this configuration, (e.g., antenna specification and input power); where the center of the antenna is at least 22.0 above grade, and the 5 foot (public) exclusion zone directly in front and at the same elevation as the antenna are observed, there is no scientific basis to conclude that harmful effects will attend the utilization of these proposed wireless telecommunications facilities. This conclusion is supported by a large numbers of scientists that have participated in standard-setting activities in the United States who

are overwhelmingly agreed that RF radiation exposure below the FCC exposure limits has no demonstrably harmful effects on humans. These findings are based on my professional evaluation of the scientific issues related to the health and safety of non-ionizing electromagnetic radiation and my analysis of the technical specification as provided by Crown Castle Networks. The opinions expressed herein are based on my professional judgement and are not intended to necessarily represent the views of any other organization or institution. Please contact me if you require any additional information.

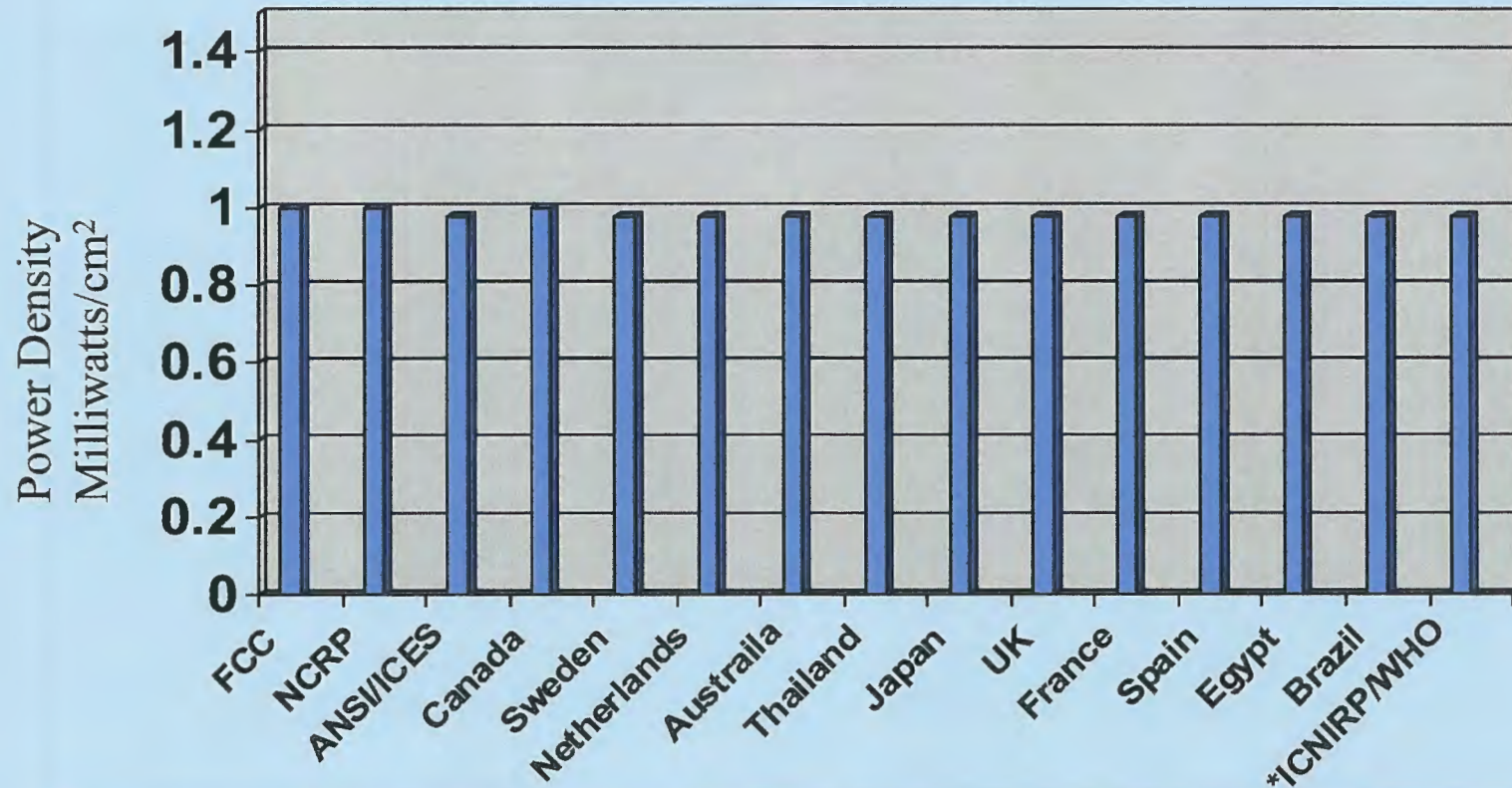
Sincerely,



Jerrold T. Bushberg Ph.D., DABMP, DABSNM, FAAPM
Diplomate, American Board of Medical Physics (DABMP)
Diplomate, American Board of Science in Nuclear Medicine (DABSNM)
Fellow, American Association of Physicists in Medicine (FAAPM)
Fellow, Health Physics Society (FHPS)

Enclosures: Figures 1-3; Attachment 1,2; Appendix A-0, A-1, A-2, A-3 and Statement of Experience.

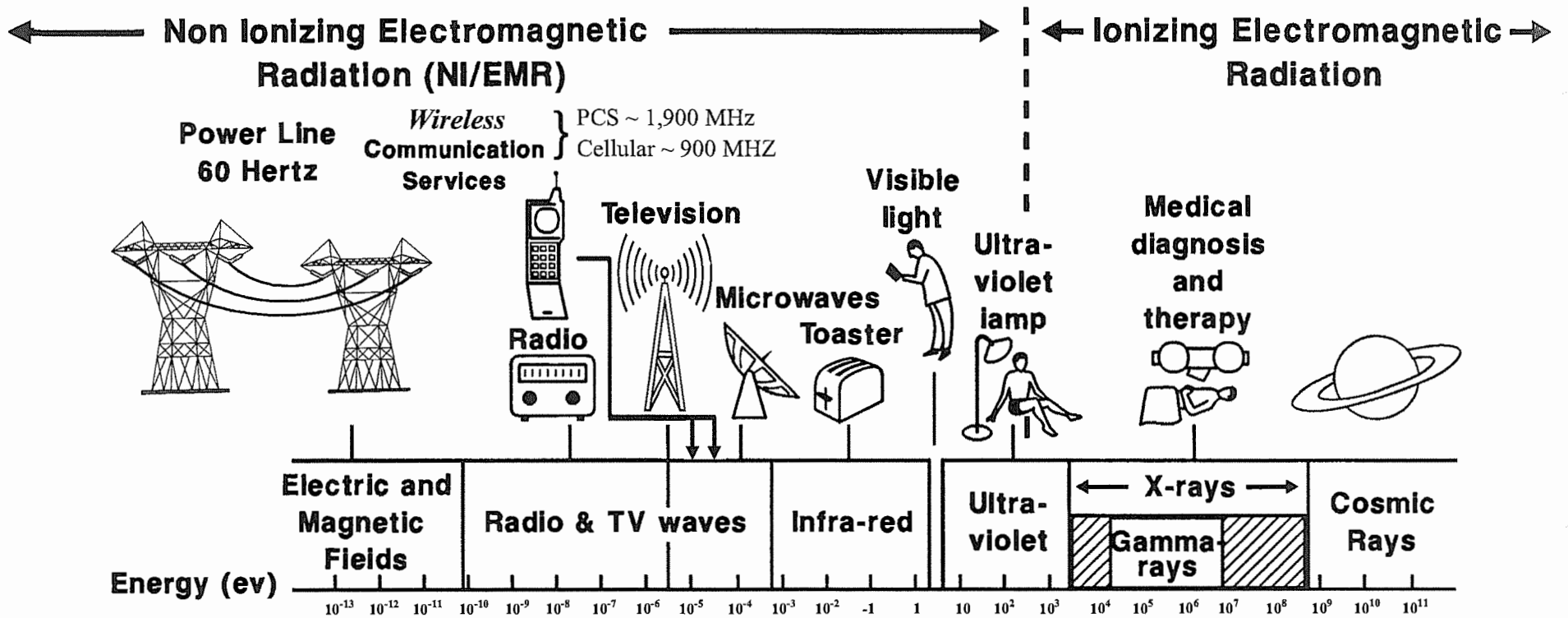
National and International Public RF Exposure Standards (DAS @ 1,950 MHz)



*International Commission on Non-Ionizing Radiation Protection (ICNIRP) Public Safety Exposure Standard. ICNIRP standard recommended by the World Health Organization (WHO). Members of the ICNIRP Scientific Committee were from:

- Australia
- Finland
- France
- Germany
- Hungary
- Italy
- Sweden
- Japan
- United Kingdom
- United States

Figure 1



The Electromagnetic Spectrum

Figure 2

Typical Exposure from Various Radio Frequency / Microwave Sources

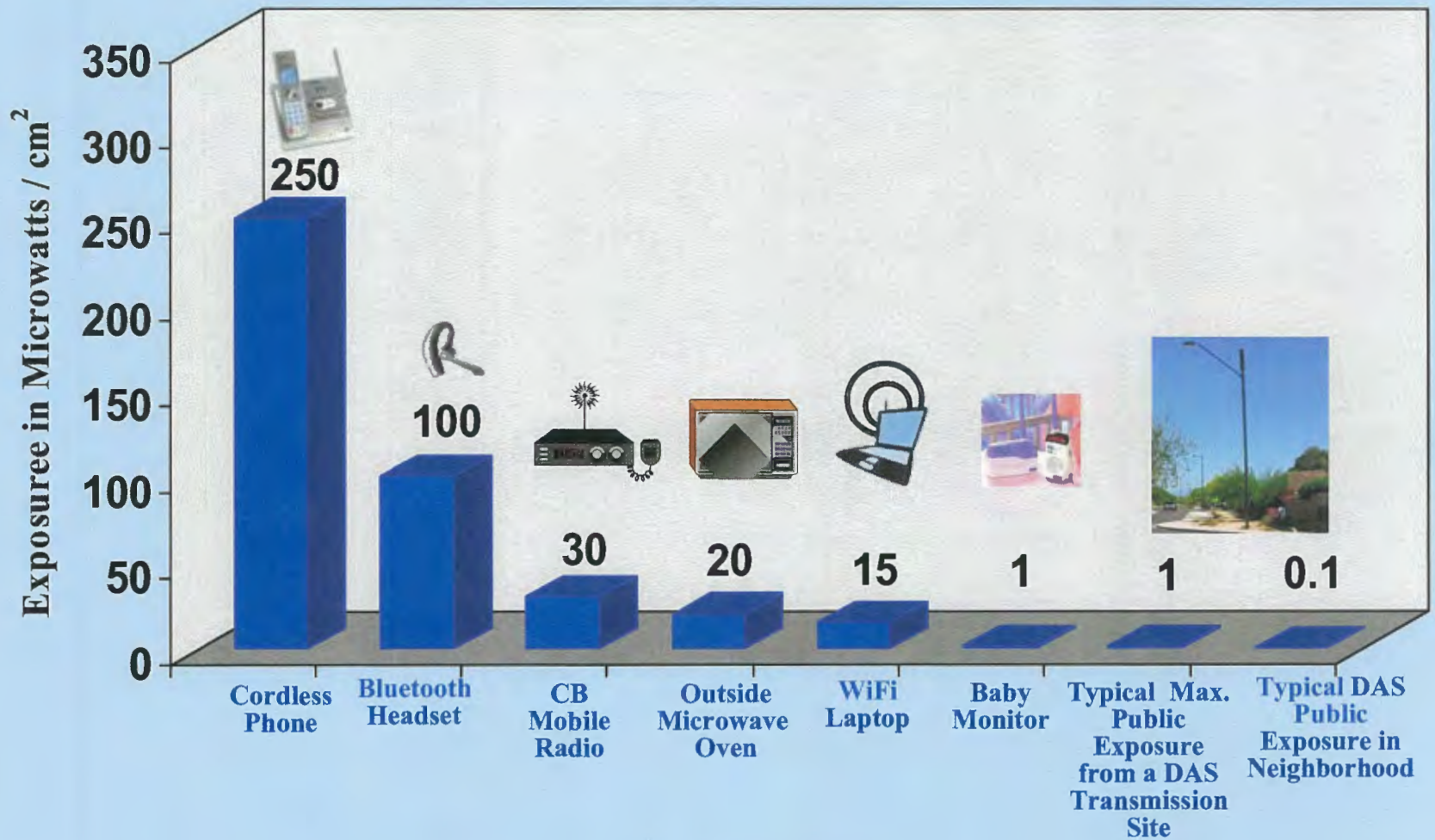


Figure 3

Attachment 1

Site Configuration Examples



PIEDMONT AVE (OPTION B)

PROW ADJACENT TO:
 5 YOSEMITE AVE (PA01)
 5 MONTELL ST (PA02)
 4037 PIEDMONT AVE (IN ALLEY) (PA03)
 3 LINDA AVE (PA04)
 3 GLENWOOD AVE (PA05)
 2 GLENWOOD AVE (PA06)
 156 41st ST (CABINET LOCATION)
 OAKLAND, CA

CROWN CASTLE TO PERFORM THE FOLLOWING:

- REMOVE AND RESTORE CONCRETE SIDEWALK PANEL.
- INSTALL CROWN CASTLE 2' X 3' VAULT.
- 3' DIRT TRENCH
- INSTALL 24" ROUND STEEL STREET LIGHT.
- INSTALL 30" ROUND STEEL POLE.
- INSTALL SMALL CELL ANTENNAS AND ITS ANCILLARY EQUIPMENT ON STREET LIGHT POLE.
- STREET LIGHT, ANTENNAS, & EQUIPMENT TO BE PLANTED TO MATCH SURROUNDING POLES.
- INSTALL CROWN CASTLE CABINET WITH POWER METER.

PROJECT SUMMARY

PROJECT MANAGER:

CROWN CASTLE
 695 RIVER OAKS PARKWAY
 SAN JOSE, CA 95134
 MARTIN HEVEZI
 (510) 760-6579
 MARTIN.HEVEZI@CROWNCastle.COM

NODE ENGINEER:

COASTAL COMMUNICATIONS
 5841 EDISON PL, STE. 110
 CARLSBAD, CA 92008
 TODD THERW
 (760) 929-0910 ext. 101
 TODD@COASTALCOMM.COM

PROJECT TEAM



VICINITY MAP

SHEET NUMBER:	DESCRIPTION
T-1	TITLE SHEET
D-1	DETAILS & NOTES
D-2	DETAILS & NOTES
D-3	DETAILS & NOTES
D-4	DETAILS & NOTES
P-1.1	PA01 PHOTOS
P-1.2	PA01 PROFILE
SP-1	PA01 SITE PLAN
P-2.1	PA02 PHOTOS
P-2.2	PA02 PROFILE
SP-2	PA02 SITE PLAN
P-3.1	PA03 PHOTOS
P-3.2	PA03 PROFILE
SP-3	PA03 SITE PLAN
P-4.1	PA04 PHOTOS
P-4.2	PA04 PROFILE
SP-4	PA04 SITE PLAN
P-5.1	PA05 PHOTOS
P-5.2	PA05 PROFILE
SP-5	PA05 SITE PLAN
P-6.1	PA06 PHOTOS
P-6.2	PA06 PROFILE
SP-6	PA06 SITE PLAN
CP-1	CABINET LOCATION PHOTOS
CSP-1	CABINET LOCATION SITE PLAN

SHEET INDEX

1. STREET USE PERMIT SHALL BE OBTAINED BY CONTRACTOR PRIOR TO COMMENCING WORK.
2. ALL WORK TO BE CONDUCTED IN THE RIGHT OF WAY.
3. ALL DISTURBED LANDSCAPING SHALL BE REPLACED TO SIMILAR EXISTING CONDITION.
4. ANY SIDEWALK CLOSURE SHALL BE COORDINATED WITH THE CITY AND PROPER SIGNING WILL BE PLACED.
5. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON PRIVATE PROPERTY OR BLOCK ACCESS TO PRIVATE PROPERTY.
6. CLEANUP OF SITE WILL BE COMPLETED EACH EVENING AND THE SITE WILL BE RETURNED TO EXISTING CONDITIONS AT THE COMPLETION OF CONSTRUCTION AT EACH SITE.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR RESPONSIBLE FOR SAME.

GENERAL CONTRACTOR NOTES

**PIEDMONT AVE
 (OPTION B)**
 CROWN CASTLE PROJECT INC.
 V243288



PREPARED BY:
 Coastal Communications
 Telecommunications Engineering
 1541 REDBORN PLACE, SUITE 110
 CARLSBAD, CA 92008
 PHONE: (760) 929-0910
 FAX: (760) 929-0954
 www.coastalcomm.com

PROPRIETARY INFORMATION
 THIS INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO TRADEW. ANY USE OR DISCLOSURE OTHER THAN AS INTENDED TO WHOM IS STRICTLY PROHIBITED.



REVISION / DATE	DATE

STREAME & ADDRESS
 PROW ADJACENT TO:
 5 YOSEMITE AVE (PA01)
 5 MONTELL ST (PA02)
 4037 PIEDMONT AVE (IN ALLEY) (PA03)
 3 LINDA AVE (PA04)
 3 GLENWOOD AVE (PA05)
 2 GLENWOOD AVE (PA06)
 156 41st ST (CABINET LOCATION)
 OAKLAND, CA

TITLE SHEET

DRAWN BY: AC	REVISIONS: 03/24/15	APPROVED BY: SY
SHEET NO. T-1		

Attachment 2

Antenna Specifications

HTXCWW63111414Fx00

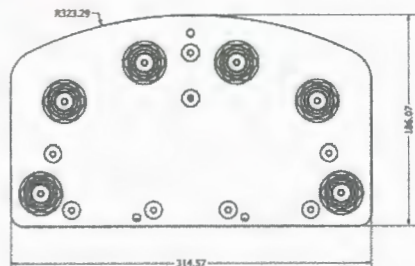
Replace "x" with desired electrical downtilt

XXX-Pol | Tri Band FET Panel | 63° | 11.0 / 14.0 / 14.0 dBi

Electrical Characteristics	696-960 MHz		2 x 1710-2170 MHz		
	696-806	806-960	1710-1880	1850-1990	1900-2170
Frequency bands (MHz)	696-806	806-960	1710-1880	1850-1990	1900-2170
Polarization	±45°		±45°		
Horizontal beamwidth	70°	65°	65°	63°	61°
Vertical beamwidth	37°	35°	18°	18°	18°
Gain	10.5 dBi	11.0 dBi	13.5 dBi	14.0 dBi	14.0 dBi
Electrical downtilt (x)	0		0		
Impedance	50Ω		50Ω		
VSWR	≤1.5:1		≤1.5:1		
Front-to-back ratio	> 25 dB	> 25 dB	> 25 dB	> 25 dB	> 25 dB
Isolation between ports	25 dB		> 25 dB		
Input power	500 W		300 W		
IM3 (2x20W carriers)	< -153 dBc		< -153 dBc		
Lightning protection	Direct Ground				
Connector(s)	6 Ports / 7/16 DIN / Female / Bottom				
Mechanical Characteristics					
Dimensions Length x Width x Depth	589 x 305 x 180 mm		23.2 x 12.0 x 7.1 in		
Weight without mounting brackets	5.9 kg		13 lbs		
Survival wind speed	200 km/hr		125 mph		
Wind area	Front: 0.18 m ² ; Side: 0.11 m ²		Front: 1.9 ft ² ; Side: 1.1 ft ²		
Wind loads (160 km/hr or 100 mph)	Front: 219 N; Side: 129 N		Front: 49 lbf; Side: 29 lbf		
Mounting Options					
	Part Number	Fits Pipe Diameter		Weight	
2-Point Mounting Bracket Kit	MKS04P01	40-115 mm	2.0-4.5 in	2.9 kg	6.4 lbs
2-Point Mounting & Downtilt Bracket Kit	MKS04T03	40-115 mm	2.0-4.5 in	4.1 kg	9.0 lbs



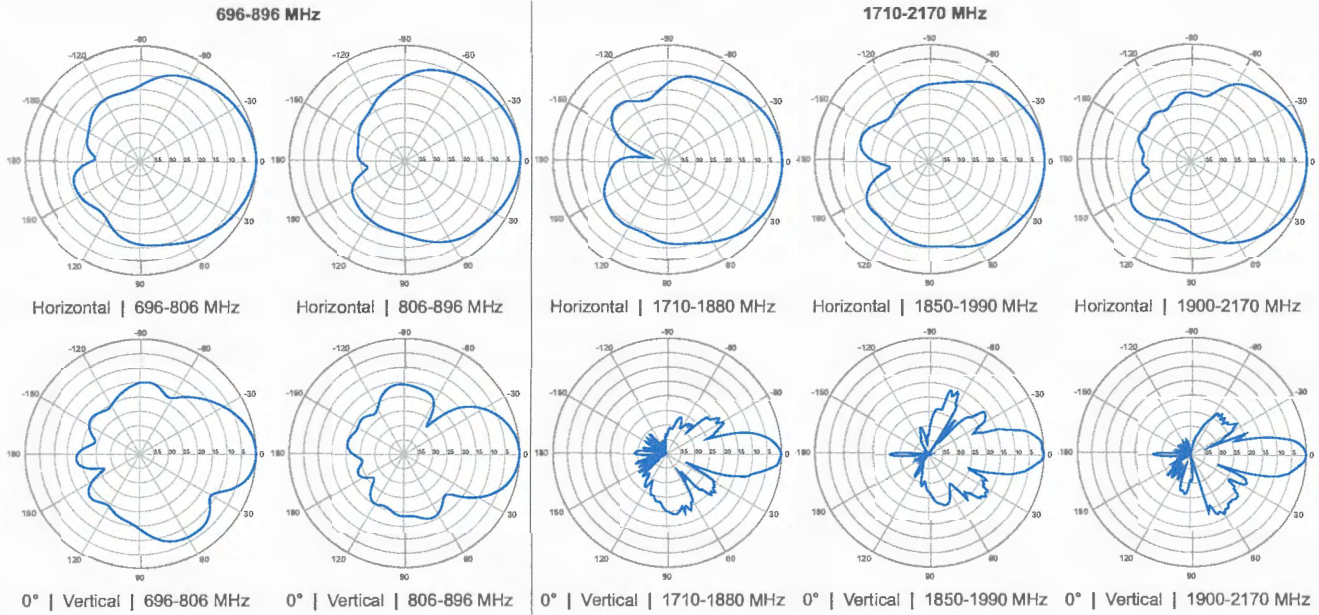
Bottom View



Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

HTXCWW63111414Fx00

XXX-Pol | Tri Band FET Panel | 63° | 11.0 / 14.0 / 14.0 dBi



Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

Appendix A-0

Node IDs, Configuration & Locations

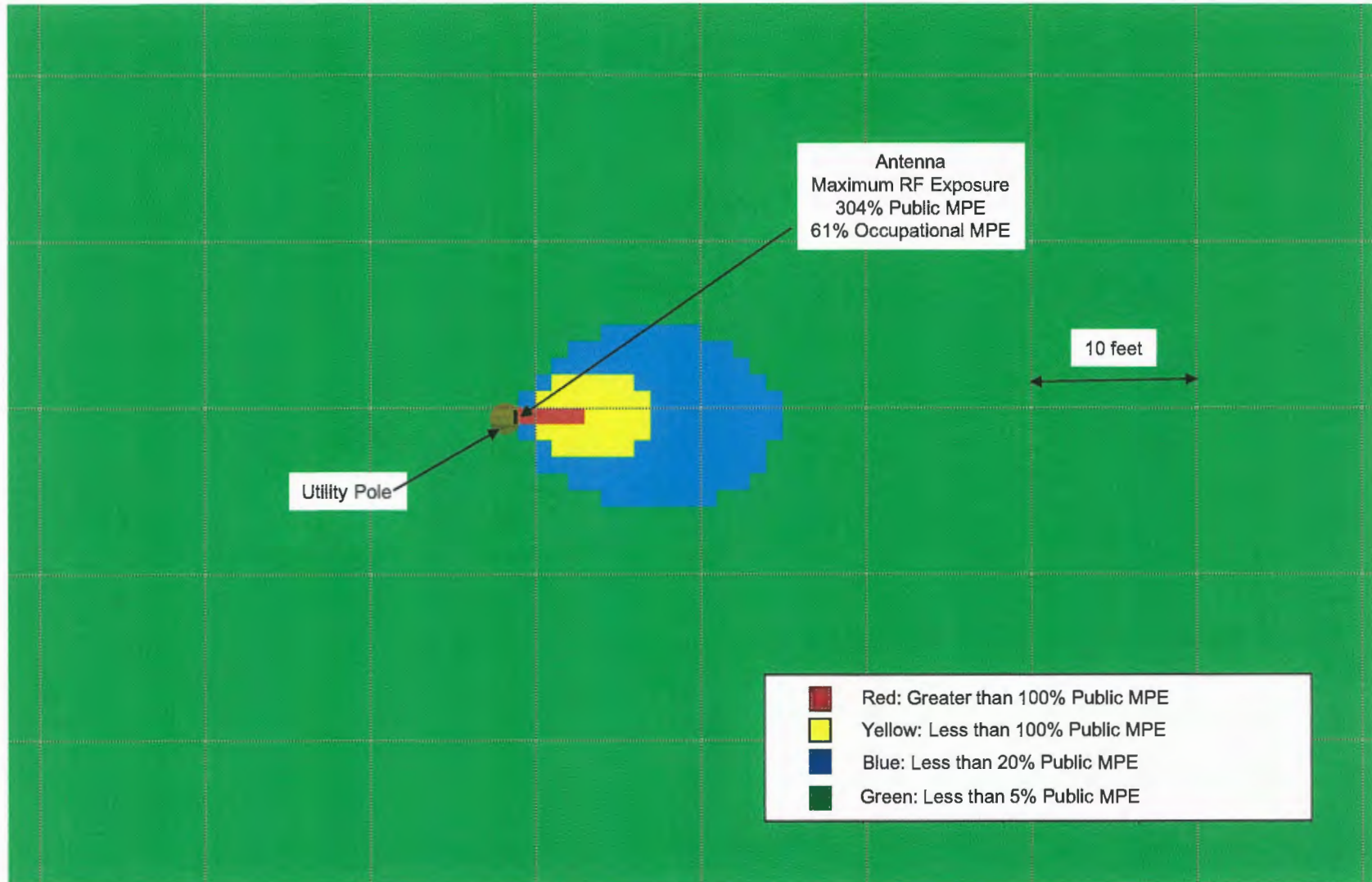
Appendix A-0 Node IDs, Configuration & Locations

Configuration 1: 1-Panel										
Site ID	Antenna Config	Antenna Rad Center (ft)	Azimuths	Latitude	Longitude	Street Address	City, State	Antenna Type	Node Equipment	Ground Elevation (ft)
PA02m	1-Panel	22' 0"	30	37.824731	-122.254356	5 Montell St	Oakland, CA	HTXCWW63111414F000	Two 2x5W mRRU (700, AWS)	89
PA03m	1-Panel	29' 0"	55	37.826050	-122.253197	4037 Piedmont Ave (In Alley)	Oakland, CA	HTXCWW63111414F000	Two 2x5W mRRU (700, AWS)	102
PA04m	1-Panel	22' 0"	30	37.827186	-122.251125	3 Linda Ave	Oakland, CA	HTXCWW63111414F000	Two 2x5W mRRU (700, AWS)	116
PA05m	1-Panel	22' 0"	30	37.828144	-122.249969	3 Glenwood Ave	Oakland, CA	HTXCWW63111414F000	Two 2x5W mRRU (700, AWS)	124
PA06m	1-Panel	36' 0"	30	37.829489	-122.248086	Piedmont Ave & Glen Eden Ave	Oakland, CA	HTXCWW63111414F000	Two 2x5W mRRU (700, AWS)	144

Appendix A-1

RF EXPOSURE AT THE LEVEL OF THE ANTENNA

**RF EXPOSURE AT THE LEVEL OF THE ANTENNA
BASED ON PERCENTAGE OF FCC MAXIMUM PUBLIC EXPOSURE (MPE) LIMIT**



Appendix A-2

RF NOTICE SIGN



NOTICE

The radio frequency (RF) emissions at this site have been evaluated for potential RF exposure to personnel who may need to work near these antennae.

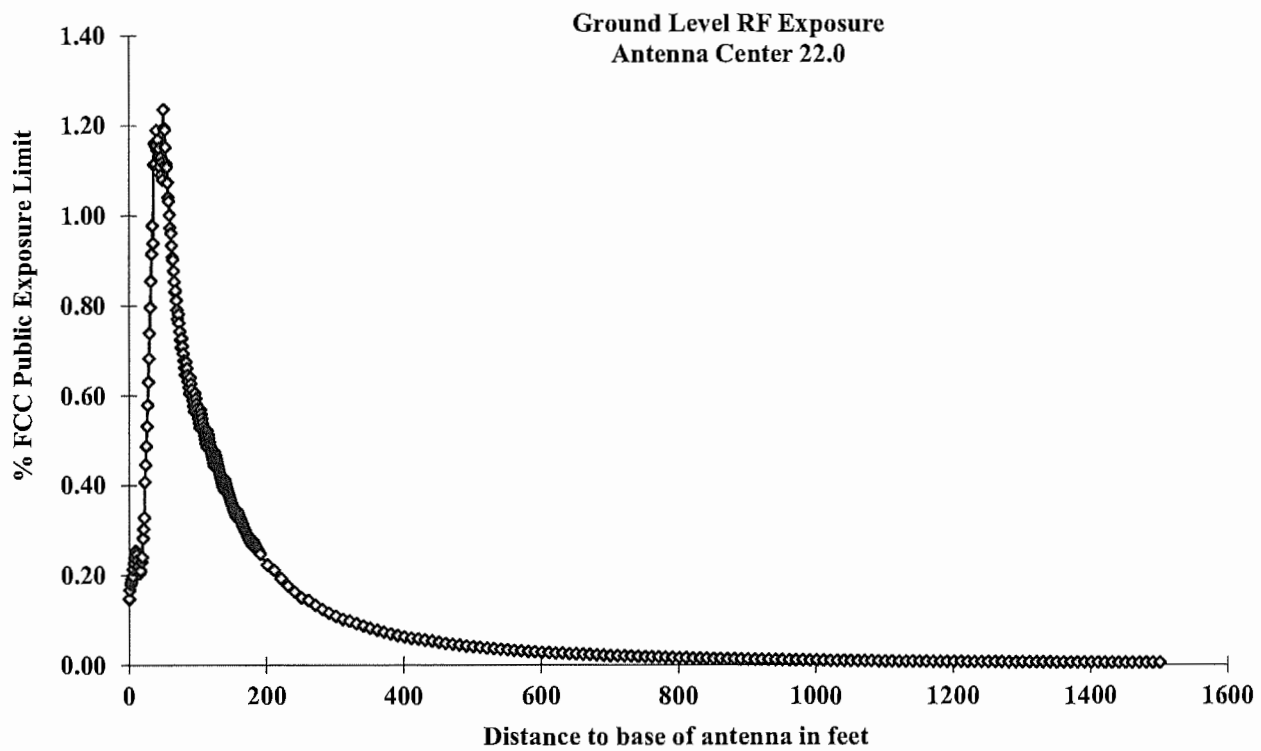
RF EXPOSURE AT 5 FEET OR CLOSER TO THE FACE OF THE ANTENNA MAY EXCEED THE FCC PUBLIC EXPOSURE STANDARD AND THUS ONLY QUALIFIED RF WORKERS MAY WORK IN THIS 5 FOOT EXCLUSION ZONE. OTHERS WHO NEED TO WORK IN THE EXCLUSION ZONE SHOULD CALL _____ FOR INSTRUCTIONS. REFER TO SITE # _____

Reference: Federal Communications Commission (FCC) Public Exposure Standard. OET Bulletin-65, Edition 97-01, August 1997.

Appendix A-3

**Antennae Amphenol Model HTXCWW63111414Fx00
Exposure Calculation Ground Level**

Antenna Center 22.0 ft AGL



STATEMENT OF EXPERIENCE

Jerrold Talmadge Bushberg, Ph.D., DABMP, DABSNM, FAAPM, FHPS

Dr. Jerrold Bushberg has performed health and safety analysis for RF & ELF transmissions systems since 1978 and is an expert in both health physics and medical physics. The scientific discipline of Health Physics is devoted to radiation protection, which, among other things, involves providing analysis of radiation exposure conditions, biological effects research, regulations and standards as well as recommendations regarding the use and safety of ionizing and non-ionizing radiation. In addition, Dr. Bushberg has extensive experience and lectures on several related topics including medical physics, radiation protection, (ionizing and non-ionizing), radiation biology, the science of risk assessment and effective risk communication in the public sector.

Dr. Bushberg's doctoral dissertation at Purdue University was on various aspects of the biological effects of microwave radiation. He has maintained a strong professional involvement in this subject and has served as consultant or appeared as an expert witness on this subject to a wide variety of organizations/institutions including, local governments, school districts, city planning departments, telecommunications companies, the California Public Utilities Commission, the California Council on Science and Technology, national and international news organizations, and the U.S. Congress. In addition, his consultation services have included detailed computer based modeling of RF exposures as well as on-site safety inspections. Dr. Bushberg has performed RF & ELF environmental field measurements and recommend appropriate mitigation measures for numerous transmission facilities in order to assure compliance with FCC and other safety regulations and standards. The consultation services provided by Dr. Bushberg are based on his professional judgement as an independent scientist, however they are not intended to necessarily represent the views of any other organization.

Dr. Bushberg is a member of the main scientific body of International Committee on Electromagnetic Safety (ICES) which reviews and evaluates the scientific literature on the biological effects of nonionizing electromagnetic radiation and establishes exposure standards. He also serves on the ICES Risk Assessment Working Group that is responsible for evaluating and characterizing the risks of nonionizing electromagnetic radiation. Dr. Bushberg was appointed and is serving as a member of the main scientific council of the National Council on Radiation Protection and Measurements (NCRP). He is also the Senior Scientific Vice-President of the NCRP and chairman of the NCRP Board of Directors. Dr. Bushberg has served as chair of the NCRP scientific committee on Radiation Protection in Medicine and he continues to serve as a member of this committee as well as the NCRP scientific advisory committee on Non-ionizing Radiation Safety. The NCRP is the nation's preeminent scientific radiation protection organization, chartered by Congress to evaluate and provide expert consultation on a wide variety of radiological health issues. The current FCC RF exposure safety standards are based, in large part, on the recommendations of the NCRP. Dr. Bushberg holds several radiation detection technology patents and was awarded the NCRP *Sinclair Medal* for "Excellence in Radiation Science" in 2014. Dr. Bushberg was elected to the International Engineering in Medicine and Biology Society Committee on Man and Radiation (COMAR) which has as its primary area of responsibility the examination and interpreting the biological effects of non-ionizing electromagnetic energy and presenting its findings in an authoritative and professional manner. Dr. Bushberg also served for several years as a member of a six person U.S. expert delegation to the international scientific community on Scientific and Technical Issues for Mobile Communication Systems established by the FCC and the FDA Center for Devices and Radiological Health.

Dr. Bushberg is a full member of the Bioelectromagnetics Society, the Health Physics Society and the Radiation Research Society. Dr. Bushberg received both a Masters of Science and Ph.D. from the Department of Bionucleonics at Purdue University. Dr. Bushberg is a fellow of the American Association of Physicists in Medicine, a fellow of the National Health Physics Society and is certified by several national professional boards with specific sub-specialty certification in radiation protection and medical physics. Prior to coming to California, Dr. Bushberg was on the faculty of Yale University School of Medicine.

Madani, Jason

From: David Mitroff, Ph.D. <davidmitroff@gmail.com>
Sent: Saturday, March 19, 2016 4:41 PM
To: Madani, Jason
Cc: Harryeisenberg@aol.com; Kim@lipkin.us; Schaaf, Libby; contact@panil.org
Subject: Do not approve Case # PLN15-386 3770 Piedmont Ave and Yosemite Ave Light Pole and Wireless Tower

Hello Jason, This email is to inform you that I strongly object for numerous reasons, outlined below, to proposed project #PLN15-386 (telecommunications installation at Yosemite Avenue and Piedmont Avenue)... as well as the numerous other projects this same group is trying to install up and down Piedmont Avenue and will file whatever paperwork, attend meetings and/or engage in activities to see this proposal is not approved.

I live directly across the street (8 Yosemite Avenue) from this proposed site and the "light pole, cell tower, etc." will create unnecessary light onto my living space, be a source of dangerous radio frequency fields, will be unsightly and much more.

Below are my top concerns:

- 1.) I was just informed of this. Unlike ABC or other offices that require notices to be sent to all those within close proximity to the activity occurring, this has come to my attention via local outrage and the fact that an outside company is proposing to make money off of government right of way property by installing extremely powerful cellular towers disguised as unnecessary light poles on at least 5 streets right off Piedmont Avenue. I think your office may want to look into informing the public and/or requiring the contractors to inform the public better. The Planning Commission ideally can not only plan, but inform.
- 2.) The idea of adding a light pole when one exist right next to this proposed "light pole" and every direction you look makes no sense. We do not need a light pole or more light pollution in this area. Furthermore we do not need more cellular towers.
- 3.) Chow Restaurant Group is currently building a multi-million dollar new restaurant project and I'm highly confident they do not want a light pole and cell towers right in front of their new business. This will be unsightly and completely offset all of the landscaping and lighting work they are doing. This pole will also block my view and will be unsightly.
- 4.) Health and safety wise, Living across the street means the radio waves will be traveling directly through my living areas and creating unnecessary exposure to me and the other residents in my building. It is not ok to introduce even more radio waves into the air and especially that close to residence that have been labeled "exceed the FCC general public exposure limit"!!!
- 5.) The idea that public property is being used by private companies for profits is also very disturbing.

There are likely many other unforeseen issues I have not thought of. Please take this email as an official NO that I do not agree to or accept or approve of project #PLN15-386 and I will to the best of my ability work with others to make sure this project does not happen. I will also work with others to make sure the Planning Commission going forward focuses more attention on not only planning, but informing.

I have lived on Piedmont Avenue for 13 years, along with being an Oakland business owner and public servant and have supported many many good things in Oakland and continue too and at the same time also been

instrumental in making bad things go away, such as Egbert Souses, Kaiser trying to fence in their open space and more. I'm up to the challenge to make sure Oakland grows in the right way and that includes making sure this project does not happen. Let me know if you need anything else from me.

David Mitroff
8 Yosemite Avenue #6
Oakland, CA 94611
510-761-5895

Madani, Jason

From: George Horton <georgeleehorton@yahoo.com>
Sent: Wednesday, February 24, 2016 11:48 AM
To: Madani, Jason
Cc: Merkamp, Robert; Valerie Winemiller
Subject: Fwd: Piedmont Avenue Neighborhood Telecom Plan

Jason -

I sent this to Robert Merkamp yesterday but accidentally did not copy you on it. Please include this with your staff report to be sent to the Planning Commissioners regarding the proposed Yosemite telecom installation (Crown Castle, PLN15388).

I canvassed the neighborhood widely yesterday - no one received the first notice supposedly sent by the City on 2/11/16. Everyone to whom I spoke (on Montell, Rio Vista, and Yosemite) received two identical notices dated both 2/16 (Pitney Bowes) and 2/17 SF (USPS ?). Properties on Montell and Rio Vista received these duplicate notices on Saturday 2/20, residences on Yosemite received these notices on Monday 2/22 (two days ago). I will forward scans of the envelopes (a pair from each of the three streets) to you later today.

Why would duplicate notices be sent? Perhaps the first supposed mailing (2/11) was not stamped and did not reach the City until the second mailing was sent, resulting in identical notices arriving at residences on the same day.

As you may know, PANIL is one of the most active neighborhood organizations in Oakland. City mailings are carefully reviewed by many residents. If residents unanimously state that they never received the telecom mailing which was supposedly sent prior to the recent mailing, then it is virtually certain that the supposed 2/11 mailing never occurred.

Therefore, due to lack of sufficient notice, the neighborhood requests that the Yosemite item be removed from the March 2 agenda.

Thank you,
George Horton, Architect

Sent from my iPad

Begin forwarded message:

From: George Horton <georgeleehorton@yahoo.com>
Date: February 23, 2016 at 17:06:29 PST
To: rmerkamp@oaklandnet.com
Cc: Valerie Winemiller <vwinemiller@hotmail.com>
Subject: Piedmont Avenue Neighborhood Telecom Plan

Robert -

It seems to residents in the Piedmont Avenue neighborhood that the issue of the proposed telecom installations should be treated as a whole, not as individual installations. Because this issue affects the whole neighborhood and because residents have many concerns and questions, a neighborhood meeting where staff could explain the rationale for such a plan (as well as explore other options) plus answer questions would be very helpful. This most reasonably would occur

prior to any further consideration of these installations by the Planning Commission.

Some of the questions which have been raised in just the past few days:

1. Why is a 100-foot separation typically required to residential areas? Why would the City consider waiving this requirement? Many families, especially those with young children (and/or pregnant women) are concerned about radiation and the lessening of the typically required distance.
2. Why is a 1500-foot separation between installations typically required? Why would the City consider waiving this requirement? What is the effect of decreasing required distances on radiation levels?
3. Why are the installations not being placed on top of buildings as in other parts of Oakland, where they are out of sight and transmission not easily blocked by buildings (allowing antennae to be more widely separated)?
4. Why is the City not concerned about increasing clutter, including visual clutter, while other cities are undergrounding utilities, partly to reduce clutter? The City has strict rules about screening rooftop installations of antennae but seems to be turning a blind eye to these proposed installations at street level.
5. Providers who install antennae on building roofs pay the building owners rent. How much rent would this telecom company be paying to the City of Oakland?
6. Why does the City feel that it is acceptable to have a private company install its equipment on public land? The sidewalk areas are already increasingly congested with various signs, obstructing passage and the opening of car doors on the right side of the vehicle. This makes exiting/entering vehicles particularly difficult for elderly people as well as those with various physical challenges.
7. It seems that the proposed installations are for one telecom carrier. What happens when another carrier wants to install another set of poles next year? It seems that allowing the current applicant to install these poles sets a dangerous precedent for future installations.
8. A street light is proposed for the Montell location. This is directly opposite an existing streetlight. The Pet Food Express has bright lights mounted on the side of the building which illuminate the parking lot and sidewalk. Additional light is not needed at this location. In fact, it would be a waste of energy and contribute to light pollution. Has the City reviewed the appropriateness of each installation to its particular location?
9. And so on

It seems that an open forum where these issues could be discussed would be very helpful. Perhaps a more rational long term plan could be developed, based upon information provided by staff and neighborhood input.

Thanks,
George Horton, Architect

Sent from my iPad

March 22, 2015

Dear Members of Oakland City Planning Commission,

We attended the neighborhood meeting where Crown Castle Representatives presented their project.

We own a house on Montell St.

We are opposed to the installation of new wireless Telecommunications facilities on new poles at the public Right-of-Way adjacent to 3868 Piedmont Avenue and Montell St, at the public Right-of-Way adjacent to 3770 Piedmont Avenue and Yosemite Ave and at the public Right-of-Way 41st Street and Piedmont Avenue for the following reasons:

- This project is not intended for the benefit of the street residents but rather for Piedmont Ave passers-by, shoppers and drivers using data on their Verizon wireless device.
- The number and proximity of these new wireless facilities is a concern for aesthetic and safety reasons. Placing antennas at higher strategic levels (top of buildings) would be less if not visible and much more effective.
- Adding a light pole on Montell St where there is sufficient light provided by an existing street light across the street and lights from an adjacent business is unnecessary and will contribute to light pollution.
- Our neighborhood does not need more visual clutter. We already have our share of poles, wires, unsightly utility boxes from AT&T...
- Above all, if this project is accepted, Crown Castle will be able to add other antennas, equipment boxes, meter boxes for other wireless companies to their newly installed poles. Our streets seen from Piedmont Ave will definitely look unattractive with a clutter of metal boxes at 8' or 9' high.
- We need aesthetic enhancements of our urban environment and not degradation.

We sincerely hope that after reviewing the major conditional use permits, design reviews and variances and after hearing the concerns and issues brought up by our neighborhood, you will deny the application from Crown Castle.

We thank you for your consideration.

Sincerely,

Elisabeth Soeurs and André Jones
56, Montell St

Madani, Jason

From: Philip Cohen <phil@lmi.net>
Sent: Wednesday, February 24, 2016 8:58 AM
To: Madani, Jason
Subject: Crown Castle, PLN15388

Hello Mr Mandani

Please let it be known that I am opposed to allowing another telecommunications company to benefit from adding street-level obstacles to our already clogged public rights-of-way. Like the cable boxes that already grace the landscape, microwave antennas and associated equipment can be (and usually are) placed elsewhere. Let them put their crowns on their own castles.

Thank You,

Philip Cohen
41 Yosemite Avenue
Oakland, CA 94611

phil@lmi.net (510) 652-4944

Piedmont Avenue Neighborhood
Improvement League (PANIL)
P.O. Box 20375
Oakland CA 94620-0375

March 27, 2016

Oakland City Planning Commissioners
Bureau of Planning, Zoning Division
250 Frank Ogawa Plaza
Oakland CA 94612-2032

Re: Telecommunications installations in the Public Right of Way:
3770 Piedmont Avenue and Yosemite, Case File No. PLN15-386
3868 Piedmont Avenue and Montell Street, Case File No. PLN15-388
41st Street and Piedmont Avenue, Case File No. PLN15-389

To Members of the Oakland Planning Commission:

The Piedmont Avenue Neighborhood Improvement League (PANIL) submits these comments after consultation with an expert in the telecommunications field and with neighboring cities. Cognizant of the “shot clock” deadline for governmental telecommunication decisions, PANIL urges the Oakland Planning Commission to reject these three applications and decline to grant the requested Major Conditional Use Permit, Design Review, and Minor Variance. The Commission should request new submittals for the reasons discussed below, or request that Crown Castle voluntarily extend the shot clock to allow the City to adequately address this issue. Crown Castle stated at a recent PANIL meeting that they would “work with the City” to achieve this.

The proposals by Crown Castle are not compatible with the Piedmont Avenue context from either a current or a future perspective, as the City works to improve streetscapes, attract quality redevelopment, and encourage upkeep by neighbors. This concern is exacerbated by the multiple installation applications expected from various carriers, as described further below (see Section B). This concern is additionally exacerbated by the pursuit of cell antennae in the public right-of-way, as such locations are rent-free in Oakland versus rooftop-mounted sites on private property (which range from \$1,500 to \$6,000 per month in San Francisco). Mobilite (competitor to Crown) has begun proposing tens of thousands of new sites for Sprint in the U.S., on new wood poles in front of homes. In some cases they knowingly installed poles without any permits and use deceptive names such as Interstate Transport and Broadband or the California Utility Pole Authority. Simply put, this rapidly evolving landscape creates a major city-wide challenge that needs to be addressed in a robust manner.

In *Sprint v Palos Verdes Estates*, the court noted that California Public Utilities Code Section 7901.1 permits municipalities to control the “time, place and manner” in which public rights-of-way are accessed. Aesthetic regulations are time, place and manner regulations, and therefore fall within the purview of the City. [California Planning and Development Report <http://www.cp-dr.com/node/247>]

Regarding the specifics of the applicant's proposal, we recommend that Crown Castle provide a more context-compatible proposal (see Section A below), and that the City Attorney, Planning Department, and Public Works create more focused siting and design standards, as well as guidelines similar to those seen in communities such as Palos Verdes (Estates and Rancho) and San Francisco. Some core policy recommendations are noted below (Section B). We urge the City to form a working group to address this matter.

These installations as proposed by Crown Castle will be extremely incompatible with the existing streetscape of Piedmont Avenue when initially installed and look worse over time with the accumulation of additional components on these poles as well as the proliferation of installations by other carriers. This visual blight will be here for decades. Under state law, no further review will be allowed for additions to these installations if the poles are not owned by the City. Without the protection of City ownership of the poles, Oakland's urban landscape will be degraded by companies whose focus is their bottom line.

We recognize that the City of Oakland's staff has a "one hundred and one" pressing challenges and opportunities, ranging from improving public safety, to fixing potholes and addressing displacement. Through this document, we hope to empower City staff to find a path that is not determined by wireless carriers pressuring the City into establishing a poor policy precedent. Although we recognize that various State and Federal laws do limit the authority of the City, they also allow the City to exercise control over some aspects of wireless installations.

Section A: Specific Concerns Regarding Crown Castle Proposals Scheduled for this Hearing

1. The drawings and photo simulations lack clarity regarding the actual installations, such as unsightly bundles of cabling hanging below the panel antennas; electric meters; battery cabinets; ground-mounted equipment; and other components. We are told that there is an overwhelming pattern of these carriers providing incomplete and inaccurate depictions. In response to these continued frustrations, cities such as Palos Verdes (Estates and Rancho) request a full scale-mockup to be provided before a decision is made. We request that Oakland require the same.
2. If a component is too large to mount on the pole, it must be placed in an underground vault, as will be required in the City of Piedmont. No sidewalk placements of cabinets should be permitted.
3. City staff has informed us that meters and ground-mounted components are considered only during the Building Permit process, which follows Zoning approval. This is unacceptable. These additional components, some of which can be quite large, are important in the overall visual impact, access from parked cars, and encumbrance of the sidewalk, including its use by all residents, but especially by parents with strollers, senior citizens, and those with mobility restrictions.
4. All new poles should be steel. No new wood poles should be allowed, as they do not permit hiding the wiring internally.
5. All new poles should be paid for by the pole provider and gifted to the city, as in San Francisco. In Piedmont, the poles will be owned by the city.
6. Provision of street lighting on the poles should be site-specific. Over-lighting can make it more difficult for a pedestrian's eyes to adjust to the lower level of lighting beyond, and can also intrude into nearby bedrooms. For example, some Montell Street residents have indicated that they object to the proposed street light at that location.
7. The City should coordinate with Pacific Gas & Electric to obtain approval for wireless metering and require that wireless metering be utilized in all instances. This would eliminate the need to place a box with a glass meter bubble and additional wiring on either the sidewalk or the pole itself. PG&E has begun to allow this in their service territory.

8. Replace the proposed panel antennae with radome design antennae (a baseball bat shape mounted vertically on top of the pole). This allows for a more streamlined and less intrusive profile. Carriers will often cite “PIM” (interference) issues, but there are PIM-compliant radome antennae.
9. Any poles proposed to hold large cabinets should instead utilize an integrated steel pole such as those made by Phillips Ericsson (SmartPole), Sabre, or Citisites. This allows for a more streamlined design. They could mimic the decorative light poles that were already installed at Piedmont and Glen, for example.
10. The proposed shroud (2 ft. by 5 ft.) covering various components may appear more bulky than the components simply mounted on the pole without the shroud. We request that Crown Castle provide drawings eliminating the shroud.
11. Battery backup components should be no wider than the pole.
12. No components of any kind, including meters, should be mounted in a manner that leaves less than 8 feet of vertical clearance to the sidewalk.
13. No placards should be placed on the pole with the exception of a site ID sticker on the underside of cabinets and the RF warning sticker near the transmitting antenna. There is no need (though pole providers may insist otherwise) to place additional placards and stickers on poles. Too often these sites feature unnecessary stickers and decals that function more like advertising and do not address a regulatory requirement by the FCC.
14. No exposed cabling. Cable shrouds, such as those produced by dbSpectra should be used to hide cable loops below panel antennae and other components.
15. No flashing lights.
16. Passive cooling should be required. Fans not regularly maintained become noisy, even if when installed the initial noise levels are below 40 decibels at the nearest residential window/door.

Section B: Cumulative Concerns Regarding Installations by Multiple Carriers

While pole providers such as Crown will often state that they can act as a “neutral host” system for multiple cell service carriers, the reality is that they rarely do so, with the exception of more confined spaces such as stadiums and subway platforms (due to space constraints and limited area coverage).

Although multiple carriers may be able to share a single set of antennae, each Tier 1 carrier (i.e., AT&T Mobility, Sprint, T-Mobile, Verizon) typically wants their own radio head units (more boxes with potentially noisy cooling fans) at the pole. So, while Government Relations personnel from Crown, Extenet, and Mobilitie will suggest such a possibility to policy makers, this is typically not achieved.

Because there are currently four Tier 1 carriers (serving mobile users), there is a concern that Oakland could end up with cluttered street intersections with multiple poles serving these four carriers, each with their own design. Additional sites for Internet of Things (IoT) sensor networks and other technologies will also be requested.

This makes it more important to establish a comprehensive review precedent at the outset, with realistic and accurate location, design, and noise standards.

The City should maintain a no-new-pole policy with the exception and requirements listed below:

1. If a new pole is proposed, the carrier (actual Tier 1 PCS carrier the proposed network is serving) must demonstrate that there are no available rooftop-mounted site opportunities available. Even

if only a combination of rooftop and street level poles is possible, this is preferable as it reduces street level clutter and encumbrances.

2. A street tree should be planted for screening at the expense of the applicant, adjacent to or in the vicinity of each new pole. If this is not possible, funds should be provided by the applicant for maintenance of existing street trees within the area.
3. If a new pole is proposed it may not be made of wood. Wood poles will always appear more cluttered since bundles of cabling cannot be placed inside the pole. New poles need to either be integrated steel (with equipment inside), or steel poles with minimum profile equipment mounted on the outside.
4. The pole provider should gift any new pole to the City. The City should lease the site to the pole provider, as is done in San Francisco and will be done in Piedmont. While this may seem to be an additional burden for Public Works Department to take on, this arrangement is vital because City ownership of the pole provides important control over the installation, including maintenance and future changes to the installation. A recent and worrisome interpretation by the Federal Communications Commission (2014 Report and Order), says that under 6409, for a cell site on a pole that is NOT owned by the City, the carrier can demand the right to increase the height by 10 feet, add horizontal arms up to 6 feet and add a large number of unsightly and potentially noisy cooling fans, antennas, equipment boxes, and wide swoops of cabling. In other words, the carrier could demand the right to modify the site in a manner that does not even remotely resemble what was originally "promised" to the City by the pole provider.
5. Abandoned obsolete equipment, including the poles themselves, must be removed at the expense of the pole provider or its successor.
6. If the City undergrounds electric and telecommunications utilities, the poles and associated equipment must be removed at the expense of the pole provider or its successor.

Mr. Osborn of Crown Castle wrote a letter to City staff citing numerous state and federal laws regarding telecommunication installations in the public right-of-way. However, it is important to note that nothing in Federal or State law sanctions unsightly and noisy designs. Much of what drives data demand, that in turn drives the demand for new cell sites, is the walkable, visually appealing, and intimate nature of our streets. New cell sites should offer the least intrusive means of providing wireless service, and should not compromise the very factors that attract many residents and visitors to our neighborhoods.

These three applications before the Commission are a poor fit for the Piedmont Avenue neighborhood and for Oakland in general, and should therefore be denied. In future applications, Crown Castle must propose the same level of design quality for their installations in Oakland that it provides to communities such as San Francisco, Palos Verdes, and Piedmont.

Thank you for your consideration of these concerns.

Very Truly Yours,

The Piedmont Avenue Neighborhood Improvement League Steering Committee

By Valerie Winemiller
Steering Committee Member

Madani, Jason

From: Harryeisenberg@aol.com
Sent: Monday, March 28, 2016 11:46 AM
To: davidmitroff@gmail.com; Madani, Jason
Cc: Kim@lipkin.us; Schaaf, Libby; contact@panil.org
Subject: Re: Do not approve Case # PLN15-386 3770 Piedmont Ave and Yosemite Ave Light ...

Dear Jason,

May I please have a copy of your response to Mr. Mitroff.

Sincerely,
Harry (Eisenberg)
Chow Restaurant Group

In a message dated 3/19/2016 4:41:09 P.M. Pacific Daylight Time, davidmitroff@gmail.com writes:

Hello Jason, This email is to inform you that I strongly object for numerous reasons, outlined below, to proposed project #PLN15-386 (telecommunications installation at Yosemite Avenue and Piedmont Avenue)... as well as the numerous other projects this same group is trying to install up and down Piedmont Avenue and will file whatever paperwork, attend meetings and/or engage in activities to see this proposal is not approved.

I live directly across the street (8 Yosemite Avenue) from this proposed site and the "light pole, cell tower, etc." will create unnecessary light onto my living space, be a source of dangerous radio frequency fields, will be unsightly and much more.

Below are my top concerns:

- 1.) I was just informed of this. Unlike ABC or other offices that require notices to be sent to all those within close proximity to the activity occurring, this has come to my attention via local outrage and the fact that an outside company is proposing to make money of government right of way property by installing extremely powerful cellular towers disguised as unnecessary light poles on at least 5 streets right of Piedmont Avenue. I think your office may want to look into informing the public and/or requiring the contractors to inform the public better. The Planning Commission ideally can not only plan, but inform.
- 2.) The idea of adding a light pole when one exist right next to this proposed "light pole" and every direction you look makes no sense. We do not need a light pole or more light pollution in this area. Furthermore we do not need more cellular towers.
- 3.) Chow Restaurant Group is currently building a multi-million dollar new restaurant project and I'm highly confident they do not want a light pole and cell towers right in front of their new business. This will be unsightly and completely offset all of the landscaping and lighting work they are doing. This pole will also block my view and will be unsightly.
- 4.) Health and safety wise, Living across the street means the radio waves will be traveling directly through my living areas and creating unnecessary exposure to me and the other residents in my building. It is not ok to introduce even more radio waves into the air and especially that close to residence that have been labeled "exceed the FCC general public exposure limit"!!!
- 5.) The idea that public property is being used by private companies for profits is also very disturbing.

There are likely many other unforeseen issues I have not thought of. Please take this email as an official NO that I do not agree to or accept or approve of project #PLN15-386 and I will to the best of my ability work with others to make sure this project does not happen. I will also work with others to make sure the Planning Commission going forward focuses more attention on not only planning, but informing.

I have lived on Piedmont Avenue for 13 years, along with being an Oakland business owner and public servant and have supported many many good things in Oakland and continue too and at the same time also been instrumental in making bad things go away, such as Egbert Souses, Kaiser trying to fence in their open space and more. I'm up to the challenge to make sure Oakland grows in the right way and that includes making sure this project does not happen. Let me know if you need anything else from me.

David Mitroff
8 Yosemite Avenue #6
Oakland, CA 94611
510-761-5895

Case File Number: PLN15-388

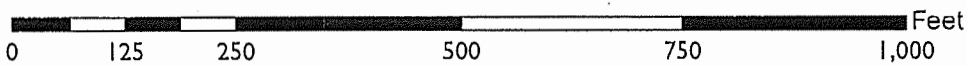
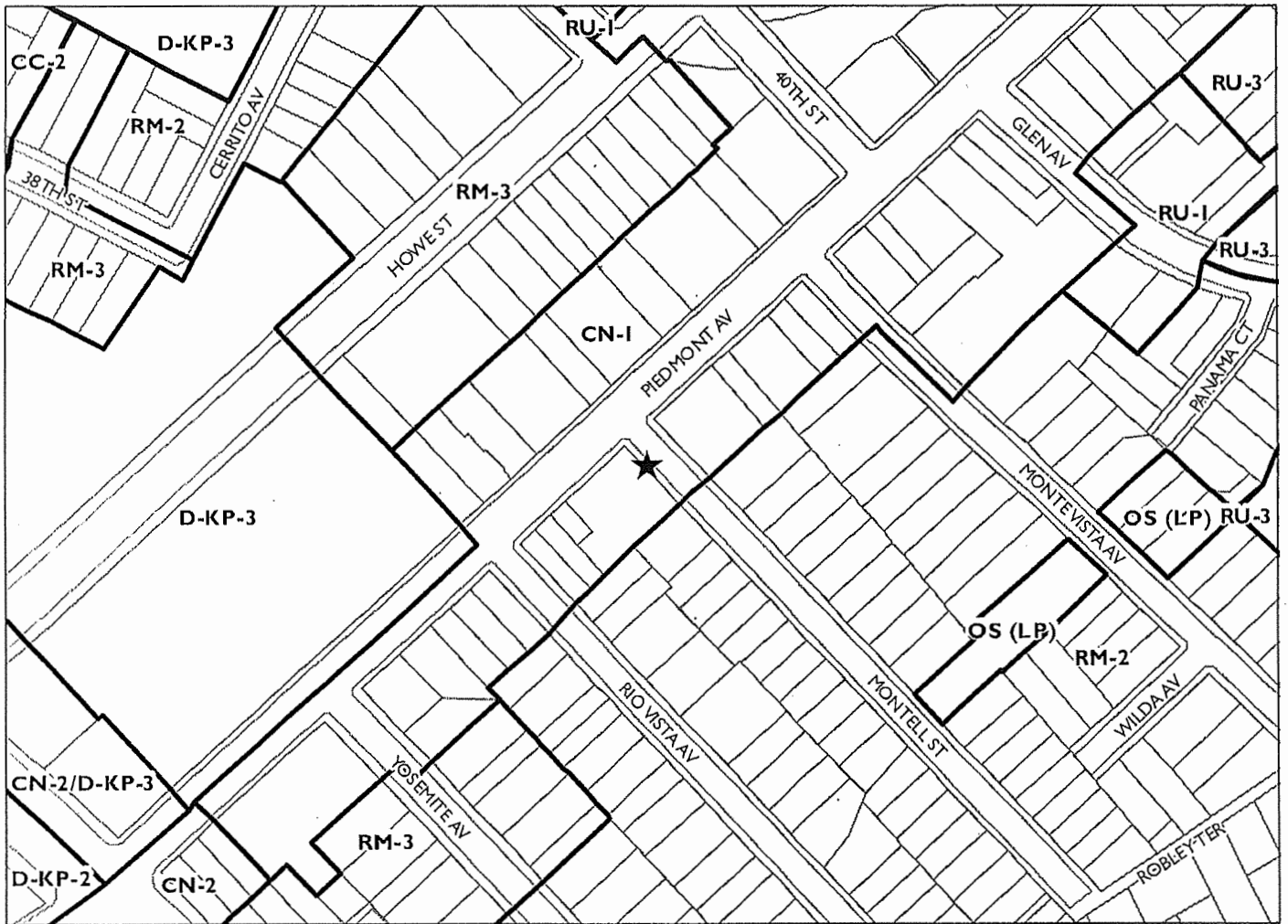
April 6, 2016

Location:	The Public Right of Way near 3868 Piedmont Avenue and Montell Street (See map on reverse)
Assessors Parcel Numbers:	Nearest lot adjacent to the project site (012-0936-022-00)
Proposal:	The project involves the installation of a new wireless Telecommunications facility on a new 24' tall metal light pole located in the public right-of-way; installation of one 24" wide panel antenna mounted at a height of 23' above the ground; an associated equipment box, one battery backup and meter box within a 5 feet long by 22 inch wide shroud attached to the light pole at 9' above the ground.
Applicant:	Crown Castle
Contact Person/	Bob Gundermann & Jason Osborn
Phone Number:	(925) 899-1999
Owner:	City of Oakland
Case File Number:	PLN15-388
Planning Permits Required:	Major Conditional Use Permit and Design Review to install a new Monopole Telecommunication Facility within 100' of a residential zone, and a Minor Variance to establish a Monopole facility within 1500 feet of another monopole facility.
General Plan:	Neighborhood Center Mixed Use
Zoning:	CN-1 Neighborhood Center
Environmental	Exempt, Section 15303 of the State CEQA Guidelines;
Determination:	installation of new telecommunication/light pole. Section 15183 of the State CEQA Guidelines; projects consistent with a community plan, General Plan or zoning.
Historic Status:	Not a Potential Designated Historic Property; Survey Rating: N/A
Service Delivery District:	2
City Council District:	1
Date Filed:	December 7, 2015
Finality of Decision:	Appealable to City Council within 10 days
For Further Information:	Contact case planner Jason Madani at (510) 238-4790 or jmadani@oaklandnet.com

SUMMARY

The proposal is to install a new wireless Telecommunications Facility on a new 24 foot tall metal light pole located in the public right-of-way near 3868 Piedmont Avenue and Montell Street. Crown Castle is proposing to install one 24" wide panel antenna mounted at a height of 23 feet above the ground; an associated equipment box, one battery backup and meter box located within a 5 feet long by 22 inch wide shroud attached to the light pole at 9' above the ground. Because this installation is a stand-alone telecommunication pole and not a joint-use utility pole, it is defined as a Monopole by City of Oakland regulations. A Major Conditional Use Permit and

CITY OF OAKLAND PLANNING COMMISSION



Case File: PLN15388

Applicant: Crown Castle

Address: Public Right-of-Way adjacent to
5 Montell Street and 3868 Piedmont Avenue

Zone: CN-1

Design Review is required for the installation of a new Monopole Telecommunication Facility within 100' of a residential zone and a Minor Variance is required to establish a monopole facility within 1500 feet of another monopole facility in the CN-zone. The proposed monopole facility is designed to look like a City of Oakland standard utility light pole; its antennas and associated equipment cabinets are within a shroud. The facility is located adjacent to the commercial parking lot of a Pet Food Express building on a commercial corridor and provides sufficient separation from the residential zone. The proposal will have minimal visual impacts as seen from commercial or residential buildings located on Piedmont Avenue and Montell Street. The project meets all the required findings (listed below) for an approval of the project.

TELECOMMUNICATIONS BACKGROUND

Limitations on Local Government Zoning Authority under the Telecommunications Act of 1996

Section 704 of the Telecommunications Act of 1996 (TCA) provides federal standards for the siting of "Personal Wireless Services Facilities." "Personal Wireless Services" include all commercial mobile services (including personal communications services (PCS), cellular radio mobile services, and paging); unlicensed wireless services; and common carrier wireless exchange access services. Under Section 704, local zoning authority over personal wireless services is preserved such that the FCC is prevented from preempting local land use decisions; however, local government zoning decisions are still restricted by several provisions of federal law. Under Section 253 of the TCA, no state or local regulation or other legal requirement can prohibit or have the effect of prohibiting the ability of any entity to provide any interstate or intrastate telecommunications service.

Further, Section 704 of the TCA imposes limitations on what local and state governments can do. Section 704 prohibits any state and local government action which unreasonably discriminates among personal wireless providers. Local governments must ensure that its wireless ordinance does not contain requirements in the form of regulatory terms or fees which may have the "effect" of prohibiting the placement, construction, or modification of personal wireless services. Section 704 also preempts any local zoning regulation purporting to regulate the placement, construction and modification of personal wireless service facilities on the basis, either directly or indirectly, on the environmental effects of radio frequency emissions (RF) of such facilities, which otherwise comply with FCC standards in this regard. See, 47 U.S.C. 332 (c) (7) (B) (iv) (1996). This means that local authorities may not regulate the siting or construction of personal wireless facilities based on RF standards that are more stringent than those promulgated by the FCC. Section 704 mandates that local governments act upon personal wireless service facility siting applications to place, construct, or modify a facility within a reasonable time. 47 U.S.C.332(c) (7) (B) (ii). See FCC Shot Clock ruling setting forth "reasonable time" standards for applications deemed complete.

Section 704 also mandates that the FCC provide technical support to local governments in order to encourage them to make property, rights-of-way, and easements under their jurisdiction available for the placement of new spectrum-based telecommunications services. This proceeding is currently at the comment stage.

For more information on the FCC's jurisdiction in this area, contact Steve Markendorff, Chief of the Broadband Branch, Commercial Wireless Division, Wireless Telecommunications Bureau, at (202) 418-0640 or e-mail "smarkend@fcc.gov".

PROJECT DESCRIPTION

The applicant (Crown Castle) is proposing to install a new 24' tall metal light pole located in the City of Oakland public right-of-way. The project involves the installation of one 24" wide panel antenna mounted at 23' above the ground; an associated equipment box, one battery backup and meter box within a 5 foot long by 22 inch wide equipment shroud mounted to the light pole at 9' above the ground. (See Attachment A)

PROPERTY DESCRIPTION

The project site is located in the City of Oakland public right-of-way near 3868 Piedmont Avenue and Montell Street adjacent to a commercial parking lot of a Pet Food Express building, and approximately 30' away from a two-story residential building, and a one-story commercial building (SOL Performance Training) across the street. The proposed telecommunication pole provides approximately 30' of separation from the adjacent residential zone.

GENERAL PLAN ANALYSIS

The subject property is located within the Neighborhood Center Mixed Use General Plan Land Use designation. The Neighborhood Center Mixed Use Land Use classification is intended to identify, create, maintain and enhance mixed use neighborhood commercial centers. These centers are typically characterized by smaller scale pedestrian-oriented, continuous street frontage with a mix of retail, housing, office, active open space, eating and drinking places, personal and business services, and smaller scale educational, cultural, or entertainment uses. The proposed unmanned wireless telecommunication facility will not adversely affect and detract from the characteristics of the neighborhood. The proposal will not likely affect the general quality and character of the neighborhood. The proposed project is not expected to have a significant visual impact on the existing structure and surrounding area.

ZONING ANALYSIS

The subject property is located in the CN-1 Neighborhood Center Mixed Use. The intent of the CN-1 zone is to maintain and enhance vibrant commercial districts with a wide range of retail establishments serving both short and long term needs in attractive settings oriented to pedestrian comparison shopping. The proposal for a new unmanned wireless telecommunication facility on a new monopole telecommunication facility requires a Major Conditional Use Permit and Design Review, because the project is located within 100' of a residential zone and a Minor Variance to establish a Monopole telecommunications facility within 1500 feet of another telecommunication monopole facility. Staff finds that the proposed application meets the applicable CN-1 Zoning and City of Oakland Telecommunications Regulations as discussed under "Findings" of this report.

ENVIRONMENTAL DETERMINATION

The California Environmental Quality Act (CEQA) Guidelines list the projects that qualify as categorical exemptions from environmental review. The proposed project is categorically exempt from the environmental review requirements pursuant to Section 15303, new

construction of small structures, and 15183, projects consistent with a community plan, general plan or zoning.

KEY ISSUES AND IMPACTS

A community meeting was held on March 9th, 2016. Many community members expressed concerns that a telecommunication facility within close proximity to homes or along Piedmont Avenue will have negative visual impacts on their neighborhood.

Staff believes that new telecommunication facility located on new monopole/ light pole located in the public right-of-way adjacent to a commercial building parking lot and approximately 30' away from the adjacent residential zone and with appropriate conditions of approval will not have significant visual impacts on the operating characteristic of this neighborhood. It will provide an essential telecommunication service to the community and the City of Oakland at large. It will also be available to emergency services such as Police, Fire and Health response teams. The submitted RF analysis indicates compliance with FCC Limitations regarding RF emissions.

1. Conditional Use Permit and Design Review and Variance

Section 17.17.040, 17.128.080 and 17.148.050 of the City of Oakland Planning Code requires a Conditional Use Permit and Design Review to install a Monopole Telecommunication facility within CN-1 zone and a Minor Variance to establish a monopole facility within 1500 feet of another monopole facility. Furthermore, Section 17.134.020 defines a major and minor conditional use permit. Subsection (A) (3) (i) lists as a Major Conditional Use Permit: "Any telecommunication facility within 100' of a residential zone." The required findings for a Major Conditional Use Permit, Design Review and Minor Variance are included in staff's evaluation as part of this report.

2. Project Site

Section 17.128.110 of the City of Oakland Telecommunication Regulations indicate that new wireless facilities shall generally be located on designated properties or facilities in the following order of preference:

- A. Co-located on an existing structure or facility with existing wireless antennas.
- B. City owned properties or other public or quasi-public facilities.
- C. Existing commercial or industrial structures in non-residential zones (excluding all HBX Zones and the D-CE3 and D-C-4 Zones).
- D. Existing commercial or industrial structures in residential zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.
- E. Other non-residential uses in residential zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.
- F. Residential uses in non-residential zones. (excluding all HBX Zones and the D-CE-3 and D-CE-4 Zones).
- G. Residential uses in residential zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.

*Facilities locating on B or C ranked preference do not require a site alternatives analysis. Facilities proposing to locate on a D through G ranked preference, inclusive, must submit a site alternatives analysis as part of the required application materials.

Alternative Site Analysis:

Crown Castle considered alternative sites on other utility poles in this area but none of these sites are as desirable from a coverage perspective or from an aesthetics perspective to minimize visual impact. The proposed location is approximately equidistant from other DAS nodes proposed in the surrounding area so that service coverage can be evenly distributed.

Staff has reviewed the applicant's written evidence of an alternative sites analysis (see Attachment A) and determined that the site selected conforms to the telecommunication regulation requirements. In addition, staff agrees that no other sites are more suitable. The project has met design criteria (B and D) since the proposed one 24" wide new antenna is mounted on a new monopole facility 23' above the ground, an associated equipment box is within a 5 foot long by 22 inches wide equipment shroud mounted on the pole at 9' above the ground.

3. Project Design

Section 17.128.120 of the City of Oakland Telecommunications Regulations indicates that new wireless facilities shall generally be designed in the following order of preference:

- A. Building or structure mounted antennas completely concealed from view.
- B. Building or structure mounted antennas set back from roof edge, not visible from public right-of way.
- C. Building or structure mounted antennas below roof line (facade mount, pole mount) visible from public right-of-way, painted to match existing structure.
- D. Building or structure mounted antennas above roof line visible from public right of-way.
- E. Monopoles.
- F. Towers.

* Facilities designed to meet an A or B ranked preference do not require a site design alternatives analysis. Facilities designed to meet a C through F ranked preference, inclusive, must submit a site design alternatives analysis as part of the required application materials. A site design alternatives analysis shall, at a minimum, consist of:

- a. Written evidence indicating why each higher preference design alternative can not be used. Such evidence shall be in sufficient detail that independent verification could be obtained if required by the City of Oakland Zoning Manager. Evidence should indicate if the reason an alternative was rejected was technical (e.g. incorrect height, interference from existing RF sources, inability to cover required area) or for other concerns (e.g. inability to provide utilities, construction or structural impediments).

City of Oakland Planning staff has reviewed and determined that the site selected conforms to all other telecommunication regulation requirements. The project has met design criteria (E) since the antennas and equipment cabinet will be within a singular equipment box (shroud) attached to the pole and painted aluminum finish to match City of Oakland light-pole to minimize potential visual impacts from public view. Crown Castle considered as an original design concept to locate the equipment cabinet inside a faux mail box design next to the light pole and also an

equipment cabinet built into the base of the light pole located within the public right of way. (See Attachment A)

4. Project Radio Frequency Emissions Standards

Section 17.128.130 of the City of Oakland Telecommunication Regulations requires that the applicant submit the following verifications including requests for modifications to existing facilities:

a. The Telecommunications regulations require that the applicant submit written documentation demonstrating that the emission from the proposed project are within the limits set by the Federal Communications Commission. In the document (attachment B) prepared by Jerrold T. Bushberg Health and Medical Physics Consulting, Inc. the proposed project was evaluated for compliance with appropriate guidelines limiting human exposure to radio frequency electromagnetic fields. According to the report on the proposal, the project will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, the proposed site will operate within the current acceptable thresholds as established by the Federal Government or any such agency that may be subsequently authorized to establish such standards.

b. Prior to final building permit sign off, an RF emissions report indicating that the site is actually operating within the acceptable thresholds as established by the Federal government or any such agency who may be subsequently authorized to establish such standards.

The information submitted with the initial application was an RF emissions report, prepared by Jerrold T. Bushberg Health and Medical Physics Consulting, Inc. (Attachment B). The report states that the proposed project will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not cause a significant impact on the environment. Additionally, staff recommends that prior to the final building permit sign off; the applicant submits certified RF emissions report stating that the facility is operating within acceptable thresholds established by the regulatory federal agency.

CONCLUSION

Staff recommends that the new telecommunication facility, with appropriate conditions of approval, will not have significant visual impacts on the operating characteristic of the existing mixed use neighborhood. It will also be available to emergency services to the community and the City of Oakland at large. It will also be available for services such as Police, Fire and Health response teams. Staff believes that the findings for approval can be made to support the Conditional Use Permit, Design Review and Variance.

RECOMMENDATIONS:

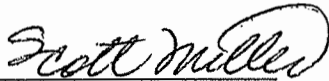
1. Affirm staff's environmental determination
2. Approve Major Conditional Use Permit, and Design Review and Minor Variance application PLN15-388 subject to the attached findings and conditions of approval.

Prepared by:



Jason Madani
Planner II

Reviewed by:



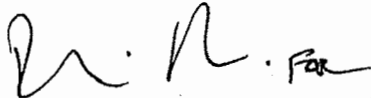
Scott Miller
Zoning Manager

Reviewed By:



Darin Ranelletti, Deputy Director
Bureau of Planning and Building

Approved for forwarding to the
City Planning Commission



Rachel Flynn, Director
Bureau of Planning and Building

ATTACHMENTS:

- A. Project Plans & Photo Simulations & Alternative Site Analysis & Design Alternative
- B. Jerrold T. Bushberg Health and Medical Physics Consulting, Inc. Engineering RF Emissions Report
- C. Correspondence

FINDINGS FOR APPROVAL

FINDINGS FOR APPROVAL:

This proposal meets all the required findings under Section 17.134.050, of the General Use Permit criteria; all the required findings under Section 17.136.050. (B), of the Non-Residential Design Review criteria; all the required findings under Section 17.128.080 (B), of the telecommunication facilities (Monopole) Design Review criteria; and all the required findings under Section 17.128.080. (C), of the telecommunication facilities (Monopole) Conditional Use Permit criteria; and Variance finding 17.148.050 and as set forth below and which are required to approve your application. Required findings are shown in **bold** type; reasons your proposal satisfies them are shown in normal type.

SECTION 17.134.050 – GENERAL USE PERMIT FINDINGS:

A. That the location, size, design, and operating characteristics of the proposed development will be compatible with, and will not adversely affect, the livability or appropriate development of abutting properties and the surrounding neighborhood, with consideration to be given to harmony in scale, bulk, coverage, and density; to the availability of civic facilities and utilities; to harmful effect, if any upon desirable neighborhood character; to the generation of traffic and the capacity of surrounding streets; and to any other relevant impact of the development.

The project involves the installation of a new wireless telecommunications facility (Crown Castle) on a new 24' tall metal light pole located in the public right-of-way adjacent to a parking lot; installation of one 24" wide panel antenna mounted at a height of 23' above the ground; an associated equipment box, one battery backup and meter box within a 5 feet long by 22 inch wide shroud attached to the light pole at 9' above the ground. The proposed monopole facility is designed to look like a City utility light pole. The proposed antennas and equipment cabinet attached to the utility pole will be painted to match the aluminum finish of the City of Oakland light pole.

B. That the location, design, and site planning of the proposed development will provide a convenient and functional living, working, shopping, or civic environment, and will be as attractive as the nature of the use and its location and setting warrant.

The proposed unmanned wireless telecommunication facility will not adversely affect or detract from the civic, commercial or residential characteristics of the neighborhood, because the proposed monopole facility is designed to look like a City utility light pole and the antennas will be mounted on a 24' tall monopole telecommunication facility that is located in the public right-of-way adjacent to the parking lot of an existing commercial building and provide approximately 30' separation from nearest residential building within the commercial corridor.

C. That the proposed development will enhance the successful operation of the surrounding area in its basic community functions, or will provide an essential service to the community or region.

The proposed development will enhance the successful operation of the surrounding area in its basic community function and will provide an essential service to the community or region. This will be achieved by improving the functional use of the site by providing a regional telecommunication facility for the community, which will be available to police, fire, public safety organizations and the general public.

D. That the proposal conforms to all applicable design review criteria set forth in the DESIGN REVIEW PROCEDURE of Chapter 17.136 of the Oakland Planning Code.

The proposal conforms with all significant aspects of the design review criteria set forth in Chapter 17.136 of the Oakland Planning Code, as outlined below.

E. That the proposal conforms in all significant respects with the Oakland General Plan and with any other applicable plan or development control map which has been adopted by the City Council.

The subject property is located within the Neighborhood Center Mixed Use General Plan designation. The Neighborhood Center Mixed Use land use classification is intended to identify, create, maintain and enhance mixed use neighborhood commercial centers. These centers are typically characterized by smaller scale pedestrian-oriented, continuous street frontage with a mix of retail, housing, office, active open space, eating and drinking places, personal and business services, and smaller scale educational, cultural, or entertainment uses. The proposed unmanned wireless telecommunication facility will not adversely affect and detract from the characteristics of the neighborhood. The proposal will not likely affect the general quality and character of the neighborhood. The proposed project is not expected to have a significant visual impact on the existing structure and surrounding area.

17.136.050(B) – NONRESIDENTIAL DESIGN REVIEW CRITERIA:

1. That the proposal will help achieve or maintain a group of facilities which are well related to one another and which, when taken together, will result in a well-composed design, with consideration given to site, landscape, bulk, height, arrangement, texture, materials, colors, and appurtenances; the relation of these factors to other facilities in the vicinity; and the relation of the proposal to the total setting as seen from key points in the surrounding area. Only elements of design which have some significant relationship to outside appearance shall be considered, except as otherwise provided in Section 17.136.060;

The proposal is to install a new 24' tall metal light pole located in the public right-of-way. The project involves installation of one 24" wide panel antenna mounted at a height of 23' above the ground; an associated equipment box, one battery backup and meter box within a 5 feet long by 22 inch wide shroud attached to the light pole at 9' above the ground located within the City of Oakland public right-of-way. The proposed monopole facility is designed to look like a City of Oakland utility light pole to blend in with other public utility pole structures within commercial corridor.

2. That the proposed design will be of a quality and character which harmonizes with, and serves to protect the value of, private and public investments in the area;

The design will be appropriate and compatible with current zoning and general plan land use designations. The antennas will be located on a monopole designed to look like a City of Oakland utility light pole set in within public right-of-way of commercial corridor and is consistent with other public utility pole structures.

3. That the proposed design conforms in all significant respects with the Oakland General Plan and with any applicable design review guidelines or criteria, district plan, or development control map which have been adopted by the Planning Commission or City Council.

See above E findings.

17.128.080(B) DESIGN REVIEW CRITERIA FOR MONOPOLE FACILITIES

1. Collocation is to be encouraged when it will decrease visual impact and collocation is to be discouraged when it will increase negative visual impact:

The proposed 24' tall monopole telecommunication facility is designed to look like a City utility light pole and will be painted to match the aluminum finish of the City of Oakland light pole. The proposal is consistent with other public utility pole structures within a commercial corridor.

2. Monopoles should not be sited to create visual clutter or negatively affect specific views:

See above # 1 finding.

3. Monopoles shall be screened from the public view wherever possible:

See above #1 finding

4. The equipment shelter or cabinet must be concealed from public view or made compatible with the architecture of the surrounding structures or placed underground. The shelter or cabinet must be regularly maintained:

The associated equipment box, one battery backup and meter boxes will be within a 5 feet long by 22 inch wide equipment shroud attached to the 24'tall light pole 9' above ground and painted to match the aluminum finish of the City of Oakland light pole. The proposed antennas and equipment are consistent with other existing utility poles located within public right-of-way of the commercial corridor. The equipment will be placed where it will not be accessed by the public.

5. Site location and development shall preserve the preexisting character of the surrounding buildings and land uses and the zone district as much as possible. Wireless communication towers shall be integrated through location and design to blend in with the existing characteristics of the site to the extent practical. Existing on-site vegetation shall be preserved or improved, and disturbance of the existing topography shall be minimized, unless such disturbance would result in less visual impact of the site to the surrounding area:

See above #4 finding.

6. That all reasonable means of reducing public access to the antennas and equipment has been made, including, but not limited to, placement in or on buildings or structures, fencing, anti-climbing measures and anti-tampering devices:

The antennas will be mounted to a 24' tall monopole and will not be accessible to the public due to its location. The equipment cabinet will be located in a service area which is only accessible to maintenance workers and not to the public.

Section 17.128.080(C) CONDITIONAL USE PERMIT (CUP) FINDINGS FOR MONOPOLE FACILITIES

1. The project must meet the special design review criteria listed in subsection B of this section (17.128.080C):

The proposed project meets the special design review criteria listed in section 17.128.080 B. (see Staff's findings in the preceding Section).

2. Monopoles should not be located any closer than one thousand five hundred (1,500) feet from existing monopoles unless technologically required or visually preferable:

The antenna system that Crown castle is proposing as a small cell distributed antenna system. These Small cells are very low powered sites compared to the full Macro site. A macro proved coverage for miles in all directions depending on the height and power output. Small Cell is designed to cover very small areas approximately quarter mile in total diameter. The sites are designed to be close together with lower RAD centers in order to supply coverage for the high density of population. As a result, Crown Castle is proposing several cell sites which are located within 1500 feet of each other along Piedmont Avenue.

3. The proposed project must not disrupt the overall community character:

The site is appropriate because is located within public right-of-way located next to a commercial parking lot and provides approximately 30' of separation from the adjacent residential zone. The proposed antennas will be located on a 24' tall light pole monopole and painted to match the aluminum finish of the City of Oakland light poles on the commercial corridor, thus it will not disrupt the overall community character of the site.

4. If a Major Conditional Use Permit is required, the Planning Director or the Planning Commission may request independent expert review regarding site location, collocation and facility configuration. Any party may request that the Planning Commission consider making such request for independent expert review.

a. If there is any objection to the appointment of an independent expert engineer, the applicant must notify the Planning Director within ten days of the Commission request. The Commission will hear arguments regarding the need for the independent expert and the applicant's objection to having one appointed. The Commission will rule as to whether an independent expert should be appointed.

- b. Should the Commission appoint an independent expert, the Commission will direct the Planning Director to pick an expert from a panel of licensed engineers, a list of which will be compiled, updated and maintained by the Planning Department.
- c. No expert on the panel will be allowed to review any materials or investigate any application without first signing an agreement under penalty of perjury that the expert will keep confidential any and all information learned during the investigation of the application. No personnel currently employed by a telecommunication company are eligible for inclusion on the list.
- d. An applicant may elect to keep confidential any proprietary information during the expert's investigation. However, if an applicant does so elect to keep confidential various items of proprietary information, that applicant may not introduce the confidential proprietary information for the first time before the Commission in support of the application.
- e. The Commission shall require that the independent expert prepare the report in a timely fashion so that it will be available to the public prior to any public hearing on the application.
- f. Should the Commission appoint an independent expert, the expert's fees will be paid by the applicant through the application fee, imposed by the city.

N/A

SECTION 17.148.050A VARIANCE FINDINGS REQUIRED:

- 1. That strict compliance with the specified regulation would result in practical difficulty or unnecessary hardship inconsistent with the purposes of the Zoning Regulations, due to unique physical or topographical circumstances or conditions of design; or, as an alternative in the case of a Minor Variance, that such strict compliance would preclude an effective design solution improving the livability, operational efficiency, or appearance.

Crown Castle is proposing to install the Monopole Telecommunication Facility within 1500 feet of another monopole facility located on Piedmont Avenue. Because this installation is a stand-alone telecommunication pole and not a joint-use utility pole, it is considered a Monopole by City of Oakland zoning regulations. The antenna system that Crown castle is proposing is a Small Cell distributed antenna system. These Small Cells are very low powered sites compared to the full Macro site. A macro provides coverage for miles in all directions depending on the height and power output. Small Cell telecommunication facilities are designed to cover very small areas approximately quarter mile in total diameter. The sites are designed to be close together with lower RAD centers in order to supply coverage for the high density of population. As a result, Crown Castle is proposing several cell sites which are located within 1500 feet of each other along the Piedmont Avenue corridor area.

- 2. That strict compliance with the regulations would deprive the applicant of privileges enjoyed by owners of similarly zoned property; or, as an alternative in the case of a Minor Variance, that such strict compliance would preclude an effective design solution fulfilling the basic intent of the applicable regulation.

See finding #1 above.

3. **That the variance, if granted, will not adversely affect the character, livability, or appropriate development of abutting properties or the surrounding area, and will not be detrimental to the public welfare or contrary to adopted plans or development policy.**

The variance will not adversely affect the properties or surrounding properties because the associated equipment box, one battery backup and meter boxes will be within a 5 foot long by 22 inch wide equipment shroud attached to the 24' tall light pole 9' above ground and painted to match the aluminum finish of the City of Oakland light pole. Photo simulations submitted for the project show the view of the proposed antennas and screen as seen from the street with minimum visual impacts.

4. **That the variance will not constitute a grant of special privilege inconsistent with limitations imposed on similarly zoned properties or inconsistent with the purposes of the Zoning Regulations.**

See above findings #3.

5. **That the elements of the proposal requiring the variance (e.g., elements such as buildings, walls, fences, driveways, garages and carports, etc.) conform with the regular design review criteria set forth in the design review procedure at Section 17.136.;**

Other than establishing the monopole structure within 1500 feet of other monopole facilities, all other design components of this project are consistent with design review criteria. Therefore, the proposal will comply with the Design Review procedure at Section 17.136.050.

6. **That the proposal conforms in all significant respects with the Oakland General Plan and with any other applicable guidelines or criteria, district plan, or development control map which have been adopted by the Planning Commission or City Council.**

See above finding E.

CONDITIONS OF APPROVAL

PLN15-388

STANDARD CONDITIONS:

1. Approved Use

Ongoing

a) The project shall be constructed and operated in accordance with the authorized use as described in the application materials, **PLN15-388**, and the plans dated **March 24, 2015** and submitted on **December 7, 2015** and as amended by the following conditions. Any additional uses or facilities other than those approved with this permit, as described in the project description and the approved plans, will require a separate application and approval. Any deviation from the approved drawings, Conditions of Approval or use shall required prior written approval from the Director of City Planning or designee.

b) This action by the City Planning Commission ("this Approval") includes the approvals set forth below. This Approval includes: **The project involves the installation of a new wireless Telecommunications facility (Crown Castle) on a new 24' tall metal light pole located in the public right-of-way; installation of one 24" wide panel antenna mounted at a height of 23' above the ground; an associated equipment box, one battery backup and meter box within a 5 feet long by 22 inch wide shroud attached to the light pole at 9' above the ground.**

2. Effective Date, Expiration, Extensions and Extinguishment

Ongoing

Unless a different termination date is prescribed, this Approval shall expire **two calendar years** from the approval date, unless within such period all necessary permits for construction or alteration have been issued, or the authorized activities have commenced in the case of a permit not involving construction or alteration. Upon written request and payment of appropriate fees submitted no later than the expiration date of this permit, the Director of City Planning or designee may grant a one-year extension of this date, with additional extensions subject to approval by the approving body. Expiration of any necessary building permit for this project may invalidate this Approval if the said extension period has also expired.

3. Scope of This Approval; Major and Minor Changes

Ongoing

The project is approved pursuant to the **Oakland Planning Code** only. Minor changes to approved plans may be approved administratively by the Director of City Planning or designee. Major changes to the approved plans shall be reviewed by the Director of City Planning or designee to determine whether such changes require submittal and approval of a revision to the approved project by the approving body or a new, completely independent permit.

4. Conformance with other Requirements

Prior to issuance of a demolition, grading, P-job, or other construction related permit

- a) The project applicant shall comply with all other applicable federal, state, regional and/or local codes, requirements, regulations, and guidelines, including but not limited to those imposed by the City's Building Services Division, the City's Fire Marshal, and the City's Public Works Agency.

- b) The applicant shall submit approved building plans for project-specific needs related to fire protection to the Fire Services Division for review and approval, including, but not limited to automatic extinguishing systems, water supply improvements and hydrants, fire department access, and vegetation management for preventing fires and soil erosion.

5. Conformance to Approved Plans; Modification of Conditions or Revocation

Ongoing

- a) Site shall be kept in a blight/nuisance-free condition. Any existing blight or nuisance shall be abated within 60-90 days of approval, unless an earlier date is specified elsewhere.
- b) The City of Oakland reserves the right at any time during construction to require certification by a licensed professional that the as-built project conforms to all applicable zoning requirements, including but not limited to approved maximum heights and minimum setbacks. Failure to construct the project in accordance with approved plans may result in remedial reconstruction, permit revocation, permit modification, stop work, permit suspension or other corrective action.
- c) Violation of any term, conditions or project description relating to the Approvals is unlawful, prohibited, and a violation of the Oakland Municipal Code. The City of Oakland reserves the right to initiate civil and/or criminal enforcement and/or abatement proceedings, or after notice and public hearing, to revoke the Approvals or alter these conditions if it is found that there is violation of any of the conditions or the provisions of the Planning Code or Municipal Code, or the project operates as or causes a public nuisance. This provision is not intended to, nor does it; limit in any manner whatsoever the ability of the City to take appropriate enforcement actions.

6. Signed Copy of the Conditions

With submittal of a demolition, grading, and building permit

A copy of the approval letter and conditions shall be signed by the property owner, notarized, and submitted with each set of permit plans to the appropriate City agency for this project.

7. Indemnification

Ongoing

- a) To the maximum extent permitted by law, the applicant shall defend (with counsel acceptable to the City), indemnify, and hold harmless the City of Oakland, the Oakland City Council, the City of Oakland Redevelopment Agency, the Oakland City Planning Commission and its respective agents, officers, and employees (hereafter collectively called City) from any liability, damages, claim, judgment, loss (direct or indirect) action, causes of action, or proceeding (including legal costs, attorneys' fees, expert witness or consultant fees, City Attorney or staff time, expenses or costs) (collectively called "Action") against the City to attack, set aside, void or annul, (1) an approval by the City relating to a development-related application or subdivision or (2) implementation of an approved development-related project. The City may elect, in its sole discretion, to participate in the defense of said Action and the applicant shall reimburse the City for its reasonable legal costs and attorneys' fees.
- b) Within ten (10) calendar days of the filing of any Action as specified in subsection A above, the applicant shall execute a Letter of Agreement with the City, acceptable to the Office of the City Attorney, which memorializes the above obligations. These obligations and

the Letter of Agreement shall survive termination, extinguishment or invalidation of the approval. Failure to timely execute the Letter of Agreement does not relieve the applicant of any of the obligations contained in this condition or other requirements or Conditions of Approval that may be imposed by the City.

8. Compliance with Conditions of Approval

Ongoing

The project applicant shall be responsible for compliance with the recommendations in any submitted and approved technical report and all the Conditions of Approval set forth below at its sole cost and expense, and subject to review and approval of the City of Oakland.

9. Severability

Ongoing

Approval of the project would not have been granted but for the applicability and validity of each and every one of the specified conditions, and if any one or more of such conditions is found to be invalid by a court of competent jurisdiction this Approval would not have been granted without requiring other valid conditions consistent with achieving the same purpose and intent of such Approval.

10. Job Site Plans

Ongoing throughout demolition, grading, and/or construction

At least one (1) copy of the stamped approved plans, along with the Approval Letter and Conditions of Approval, shall be available for review at the job site at all times.

11. Special Inspector/Inspections, Independent Technical Review, Project Coordination and Management

Prior to issuance of a demolition, grading, and/or construction permit

The project applicant may be required to pay for on-call special inspector(s)/inspections as needed during the times of extensive or specialized plan check review, or construction. The project applicant may also be required to cover the full costs of independent technical and other types of peer review, monitoring and inspection, including without limitation, third party plan check fees, including inspections of violations of Conditions of Approval. The project applicant shall establish a deposit with the Building Services Division, as directed by the Building Official, Director of City Planning or designee.

12. Days/Hours of Construction Operation

Ongoing throughout demolition, grading, and/or construction

The project applicant shall require construction contractors to limit standard construction activities as follows:

- a) Construction activities are limited to between 7:00 AM and 7:00 PM Monday through Friday, except that pile driving and/or other extreme noise generating activities greater than 90 dBA shall be limited to between 8:00 a.m. and 4:00 p.m. Monday through Friday.
- b) Any construction activity proposed to occur outside of the standard hours of 7:00 am to 7:00 pm Monday through Friday for special activities (such as concrete pouring which may require more continuous amounts of time) shall be evaluated on a case by case basis, with criteria including the proximity of residential uses and a consideration of resident's preferences for whether the activity is acceptable if the overall duration of construction is shortened and such construction activities shall only be allowed with the prior written authorization of the Building Services Division.

- c) Construction activity shall not occur on Saturdays, with the following possible exceptions:
 - i. Prior to the building being enclosed, requests for Saturday construction for special activities (such as concrete pouring which may require more continuous amounts of time), shall be evaluated on a case by case basis, with criteria including the proximity of residential uses and a consideration of resident's preferences for whether the activity is acceptable if the overall duration of construction is shortened. Such construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division.
 - ii. After the building is enclosed, requests for Saturday construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division, and only then within the interior of the building with the doors and windows closed.
- d) No extreme noise generating activities (greater than 90 dBA) shall be allowed on Saturdays, with no exceptions.
- e) No construction activity shall take place on Sundays or Federal holidays.
- f) Construction activities include but are not limited to: truck idling, moving equipment (including trucks, elevators, etc) or materials, deliveries, and construction meetings held on-site in a non-enclosed area.

13. Landscape Maintenance

Ongoing

All new landscaping shall be permanently maintained in good growing condition and, whenever necessary, replaced with new plant materials to ensure continued compliance with applicable landscaping requirements.

14. Operational Noise-General

Ongoing

Noise levels from the activity, property, or any mechanical equipment on site shall comply with the performance standards of Section 17.120 of the Oakland Planning Code and Section 8.18 of the Oakland Municipal Code. If noise levels exceed these standards, the activity causing the noise shall be abated until appropriate noise reduction measures have been installed and compliance verified by the Planning and Zoning Division and Building Services.

PROJECT SPECIFIC CONDITONS:

15. Radio Frequency Emissions

Prior to the final building permit sign off

The applicant shall submit a certified RF emissions report stating the facility is operating within the acceptable standards established by the regulatory Federal Communications Commission.