



**CITY OF NEWPORT BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
PLANNING DIVISION ACTION REPORT**

TO: CITY COUNCIL, CITY MANAGER AND PLANNING COMMISSION

FROM: Kimberly Brandt, Community Development Director
Brenda Wisneski, Deputy Community Development Director

SUBJECT: Report of actions taken by the Zoning Administrator, and/or Planning Division staff for the week ending March 4, 2016

**COMMUNITY DEVELOPMENT DIRECTOR
OR PLANNING DIVISION STAFF ACTIONS**
(Non-Hearing Items)

- Item 1: Crown Castle – Staff Approval No. SA2016-001 (PA2016-007)
Site Address: Public right-of-way adjacent to 3800 East Coast Highway
- Action: Approved Council District 6
- Item 2: Crown Castle – Staff Approval No. SA2016-002 (PA2016-008)
Site Address: Address
- Action: Approved Council District 6

APPEAL PERIOD: An appeal may be filed with the Director of Community Development or City Clerk, as applicable, within fourteen (14) days following the date the action or decision was rendered unless a different period of time is specified by the Municipal Code (e.g., Title 19 allows ten (10) day appeal period for tentative parcel and tract maps, lot line adjustments, or lot mergers). For additional information on filing an appeal, contact the Planning Division at 949 644-3200.



COMMUNITY DEVELOPMENT DEPARTMENT

PLANNING DIVISION

100 Civic Center Drive, P.O. Box 1768, Newport Beach, CA 92658-8915

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COMMUNITY DEVELOPMENT DIRECTOR ACTION LETTER

Application No.	Staff Approval No. SA2016-001 (PA2016-007)
Applicant	Crown Castle NG West, LLC
Owner	Public right-of-way
Site Address	Public right-of-way adjacent to 3800 East Coast Highway
Legal Description	Public right-of-way along Poppy Avenue to the west of Lot 50, Tract 673

On **March 4, 2016**, the Community Development Director approved Staff Approval No. SA2016-001, finding substantial conformance with Telecom Permit No. TP2012-005 (PA2012-042), which authorized a new telecom facility on an existing wood utility pole in the public right-of-way. The staff approval modifies the type of omni-directional antenna and pole-mounted radio unit on the approved telecom site. No other changes are proposed. This approval is based on the findings and subject to the following conditions.

BACKGROUND

Telecom Permit No. TP2012-005 was approved on November 28, 2012, by the Community Development Director allowing the installation of a Distributed Antenna System (DAS) facility on an existing wooden Southern California Edison (SCE) utility pole (ID#1411062E). The facility consists of a braceless arm shelf with a single phazar omni-antenna, cross arm with fiber, power riser, communications riser, and associated equipment boxes. The facility is proposed within the Poppy Avenue public right-of-way adjacent and west of the property addressed as 3800 East Coast Highway. The proposed height of the antenna and related equipment will not exceed 35 feet in height where the existing utility pole is 44 feet 2 inches in height.

The applicant requested two previous extensions of time as the facility had not been constructed to-date. On November 25, 2014, and November 25, 2015, the Community Development Director approved extensions of time for Telecom Permit No. TP2012-005 through November 28, 2016.

PROPOSED CHANGES

This staff approval modifies the type of omni-directional antenna and pole-mounted radio unit on the approved telecom site and finds these structures in substantial conformance with the original Telecom Permit No. TP2012-005. The diameter of the

omni-directional antenna would increase from a 2-inch diameter to an 8.11-inch diameter where the length of the antenna will remain the same at 2 feet. The pole-mounted radio unit would be modified to 6.1 inches in width by 32.7 inches in length by 5.8 inches in depth where the previously approved radio-unit measured 18 inches in width by 20.9 inches in length by 8.2 inches in depth. No other changes are proposed to the facility.

FINDINGS

Pursuant to [Section 20.54.070 \(Changes to an Approved Project\)](#), the Community Development Director may authorize minor changes to an approved site plan, architecture, or the nature of the approved use, without a public hearing, and waive the requirement for a new use permit application. This staff approval is based on the following findings and facts in support of the findings.

Finding:

A. *Are consistent with all applicable provisions of this Zoning Code.*

Facts in Support of Finding:

1. The telecom facility was approved prior to the current Telecom Ordinance. Under the current Zoning Code provisions, Class 3 telecom facilities require a minor use permit in the public right-of-way. The site was approved with a telecom permit in 2012 in accordance with the provisions of the Municipal Code at the time.
2. The proposed telecommunications facility received approval of Telecom Permit No. TP2012-005 on November 28, 2012, which authorized a DAS facility to be mounted on an existing wooden utility pole in the public right-of-way.
3. The proposed changes to the omni-directional antenna and pole-mounted radio unit are consistent with the operational characteristics and conditions approved by Telecom Permit No. TP2012-005 and are not considered substantial changes to the existing approval.

Finding:

B. *Do not involve a feature of the project that was a basis for or subject of findings or exemptions in a negative declaration or Environmental Impact Report for the project.*

Facts in Support of Finding:

1. The previously approved telecom facility was not subject to a negative declaration or Environmental Impact Report.

2. This project has been reviewed, and it has been determined that it is categorically exempt from the requirements of the California Environmental Quality Act under Section 15301, Class 1 (Existing Facilities). Class 1 allows minor alteration of existing public or private structures where negligible or no expansion of an existing use is involved. The proposed project involves a minor alteration to add antennas and supporting equipment to an existing SCE utility pole.

Finding:

- C. *Do not involve a feature of the project that was specifically addressed or was the subject of a condition(s) of approval for the project or that was a specific consideration by the applicable review authority in the project approval.*

Facts in Support of Finding:

1. The proposed changes to the omni-directional antenna and pole-mounted radio unit do not involve a feature that was specifically addressed in the Community Development Director Action Letter, or subject to a condition of approval for Telecom Permit No. TP2012-005.
2. The omni-directional antenna diameter is increasing but the length of the antenna will remain the same. The increased antenna diameter is minor and is in substantial conformance with the original telecom facility.
3. The length of the pole-mounted radio unit will increase slightly from 20.9 inches to 32.7 inches. However, the overall width of the pole-mounted radio unit will decrease from 18 inches to 6.1 inches in width. The change to the pole-mounted radio unit size is minor and is in substantial conformance with the original telecom facility.

Finding:

- D. *Do not result in an expansion or change in operational characteristics of the use.*

Facts in Support of Finding:

1. The telecom facility will operate with the same capacity and use as was previously approved under Telecom Permit No. TP2012-005. The omni-directional antenna will be mounted at the same height on the existing wooden utility pole.

DETERMINATION

This staff approval request has been reviewed and a determination has been made that the proposed modifications to the omni-directional antenna and pole-mounted radio unit are in substantial conformance with Telecom Permit No. TP2012-005 (PA2012-042).

CONDITIONS OF APPROVAL

1. The development shall be in substantial conformance with the approved site plan, floor plans and building elevations stamped and dated with the date of this approval. (Except as modified by applicable conditions of approval.)
2. *The omni-directional antenna shall not exceed 8.11 inches in diameter or 2 feet in length.*
3. *The pole-mounted radio unit shall not exceed 32.7 inches in length by 6.1 inches in width by 5.8 inches in depth.*
4. *The conditions of Telecom Permit No. TP2012-005 (PA2012-042) shall remain in full force and effect.*
5. To the fullest extent permitted by law, applicant shall indemnify, defend and hold harmless City, its City Council, its boards and commissions, officials, officers, employees, and agents from and against any and all claims, demands, obligations, damages, actions, causes of action, suits, losses, judgments, fines, penalties, liabilities, costs and expenses (including without limitation, attorney's fees, disbursements and court costs) of every kind and nature whatsoever which may arise from or in any manner relate (directly or indirectly) to City's approval of the Crown Castle Staff Approval including, but not limited to, the SA2016-001 (PA2016-007). This indemnification shall include, but not be limited to, damages awarded against the City, if any, costs of suit, attorneys' fees, and other expenses incurred in connection with such claim, action, causes of action, suit or proceeding whether incurred by applicant, City, and/or the parties initiating or bringing such proceeding. The applicant shall indemnify the City for all of City's costs, attorneys' fees, and damages, which City incurs in enforcing the indemnification provisions set forth in this condition. The applicant shall pay to the City upon demand any amount owed to the City pursuant to the indemnification requirements prescribed in this condition.

APPEAL PERIOD

An appeal may be filed with the Director of Community Development or City Clerk, as applicable, within fourteen (14) days following the date the action or decision was rendered. For additional information on filing an appeal, contact the Planning Division at (949) 644-3200.

On behalf of Kimberly Brandt, AICP, Community Development Director

By:



Makana Nova
Associate Planner

JWC/mkn

Attachments: CD 1 Vicinity Map
 CD 2 Applicant's Project Description
 CD 3 Telecom Permit No. TP2012-005 (PA2012-042)
 CD 3 Project Plans

Attachment No. CD 1

Vicinity Map

VICINITY MAP



Attachment No. CD 2

Applicant's Project Description



PROJECT DESCRIPTION

Crown Castle NG West LLC – City of Newport Beach

Request: Modification to Existing Telecommunications Facility Permit No. TP2012-005

Project: Distributed Antenna System (DAS) Installation on Existing Utility Pole (SOC06m1)

Location: Public ROW adjacent to 3800 East Coast Highway

Background and Request

Crown Castle NG West LLC (Crown Castle) is a regulated public utility company providing fiber-optic transport service to commercial wireless providers often in areas where the wireless provider has little or no existing service coverage for its customers, and where traditional “macro” wireless facilities may be more problematic due to cost, terrain, physical/natural obstructions, and zoning restrictions (i.e. residential areas, hilly terrain, urban settings, coastal highways). Crown Castle relies upon its ability to utilize new and existing utility infrastructure (including streetlights, traffic signals and wood utility poles) within the public right-of-way to install individual facilities or a cluster of interconnected low power, low impact communications installations more commonly referred to as “Distributed Antenna System (DAS)” nodes or small cells. Crown Castle’s customers are not individual wireless users, but rather the commercial wireless carriers that provide such service to the consumer. The subject planning application pertains to a previously-approved Telecommunications Facility Permit No. TP2012-005 involving an existing utility pole (Pole #1411062E) located adjacent to 3800 East Coast Highway in the City of Newport Beach. Crown Castle is requesting that the original Telecommunications Facility Permit No. TP2012-005 be **modified** to allow for a change to the approved pole-mounted antenna and radio equipment.

Project Location and Surroundings

As noted, the project involves the installation of a DAS node facility on an existing wood utility pole (Pole ID# 1411062E) located in the public right-of-way adjacent to 3800 East Coast Highway. This DAS node is identified by Crown Castle as SOC06m1. Surrounding zone districts include R1 (Single Unit Residential) to the northeast, CC (Commercial Corridor) to the southeast and southwest, and R2 (Two Unit Residential) to the northwest. Surrounding land uses include single-family residences to the northeast, retail commercial along East Coast Highway to the southeast and southwest, and single-family residences to the northwest. The proposed node location is part of an existing overhead utility alignment that runs parallel with East Coast Highway along the back of the commercial properties fronting East Coast Highway. The wood poles in this existing alignment contain various power and communications cable spans, as well as guy wires, streetlights, and other pole-mounted equipment. The existing wood poles in this overhead alignment may vary in overall height, but appear to extend 40’-50’ to the top of pole. The subject pole measures 44’-2” to the top of pole.

Project Design

Crown Castle received approval pursuant to Telecommunications Facility Permit No. 2012-005 to install a small omni directional antenna approximately 28’-7” above ground level, and to attach appurtenant equipment (consisting of a Powerwave radio unit, electrical disconnect box, and WTR fuse box) at a minimum height of 8’-0” above ground level on an existing wood utility pole. More specifically, the approved scope of work consisted of the following improvements:

- Install new 18”W x 20”H Powerwave radio unit, new 12”W x 12”H WTR fuse box, and new 6”W x 9”H electrical disconnect box on pole at minimum 8’-0” above grade. All equipment to be painted to match underlying pole.



- Install new Crown Castle fiber line at 24'-7".
- Install new crossarm at 26'-7", and place new 2"Dia., 24"L Phazar omni-directional antenna on crossarm (28'-7" to top of antenna). New Phazar antenna to be offset approximately 3'-0" from NW side of pole.
- Install 1" Schedule 80 power riser and 2" Schedule 80 comm riser on pole.

During the time that has elapsed since the original permit approval back in November 2014, the antenna and radio product options have changed, and Crown Castle is implementing a new node configuration to meet its carrier customer's network needs primarily driven by the increasing demand for LTE services. The mounting heights and attachment locations on the subject poles remain unchanged. However, Crown Castle is seeking to install a different omni-directional antenna, as well as a different pole-mounted radio unit. More specifically, the following project design modifications are proposed:

- **Install new 8.11"Dia., 24"L KMW omni-directional antenna on crossarm (in place of previously approved 2"Dia., 24"L Phazar omni-directional antenna).** The new antenna remains 24" in length, but has a larger diameter (8.11") than the original antenna (2"). The antenna would be mounted on a new crossarm at 26'-4" (28'-9" to top of antenna). As such, the antenna and crossarm will remain in virtually the same location and at a height (28'-9") comparable with the original approval (28'-7"). The minor height differential is attributable to the mounting hardware.
- **Install new 6.1" x 32.7" x 5.8" Andrew ION radio on existing utility pole (in place of previously approved 18" x 20.9" x 8.2" Powerwave radio).** Although longer, the new radio is significantly narrower (6.1") than the original radio (18"). As you might expect, the new radio will be significantly less impacting visually since at 6"-wide it will not project beyond the edges of the underlying wood utility pole. The new antenna and radio unit can be painted to better blend with the wood pole.

Operational Compliance

The proposed Crown Castle installation will operate in full compliance with established FCC standards and requirements for RF emissions. By design, the proposed DAS installation consists of a low power, low output facility that falls well below federal standards for radio-frequency emissions. Maximum input power for the proposed ION radio unit is approximately 40 watts. The proposed KMW omni-directional antenna will transmit at a frequency between 1,710 and 2,155 MHz, and be elevated 26'-9" to 28'-9" above ground level. Thus, even under maximum power, the level of RF exposure at ground level from the proposed DAS installation should not exceed 0.41% of the FCC public safety standard. Additionally, the proposed project will not interfere with other communication, radio or television transmission/reception in and around the subject location. As detailed in the design description above, the proposed DAS installation will comply with CPUC and local utility regulations pertaining to the construction, operation and maintenance of the facility.

CEQA/Regulatory Summary

Crown Castle NG West LLC (formerly NextG Networks of California, Inc.) possesses a Certificate of Public Convenience and Necessity (CPCN) from the California Public Utilities Commission (CPUC), and as such, is recognized as a "telephone corporation" – and therefore a public utility – under state law. The authority conveyed upon Crown Castle through CPCN No. U-6745-C allows for the



provision of both limited and full facilities-based telecommunications services subject to the terms and conditions set forth in the grants of approval dated January 30, 2003 and April 12, 2007. Section VII of CPCN No. U-6745-C affirms the CPUC's role as lead agency for CEQA review and determination for the construction of facilities covered under the limited facilities-based authorization. The Commission concluded that as far as the construction of facilities on existing buildings or structures (including utility poles), for the purpose of providing interexchange or local exchange services, *"it can be seen with certainty that there is no possibility that granting this application will have an adverse effect upon the environment."* Insomuch as the proposed DAS node on an existing wood utility pole adjacent to 3800 East Coast Highway is consistent with Crown Castle's Limited and Full Facilities-Based CPCN, the project is considered by the CPUC to be exempt for purposes of CEQA.

Attachment No. CD 3

Telecom Permit No. TP2012-005
(PA2012-042)



COMMUNITY DEVELOPMENT DEPARTMENT

PLANNING DIVISION

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November 28, 2012

Crown Castle NG Networks, Inc
2125 Wright Avenue, #C-9
La Verne, CA 91750

**Re: Telecommunications Facility Permit No. TP2012-005
(PA2012-042)
Public ROW adjacent to 3800 East Coast Highway
Crown Castle DAS PROW Poppy/Coast**

Dear Mr. Chiu,

It was a pleasure working with you on the Crown Castle NG Telecommunications Facility Permits. Please find attached the approved resolution for TP2012-004 (PA2012-041). If you have any questions, please do not hesitate to contact me directly. Thank you and I look forward to working with you again in the future.

Sincerely,

Makana Nova
Assistant Planner

GR/mkn

cc:

Plancom, Inc.
Carver Chiu
250 El Camino Real, Suite 117
Tustin, CA 92780



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COMMUNITY DEVELOPMENT DIRECTOR ACTION LETTER

APPLICATION: Telecommunications Permit No. TP2012-005 (PA2012-042)

APPLICANT: Crown Castle NG Networks, Inc

LOCATION: Public right-of-way adjacent to 3800 East Coast Highway

LEGAL DESCRIPTION: Public right-of-way along Poppy Avenue to the west of Lot 50, Tract 673

PROJECT REQUEST AND DESCRIPTION

Crown Castle NG Networks, Inc has submitted an application requesting a telecommunications permit to allow the installation of a Distributed Antenna System (DAS) facility consisting of a braceless arm shelf with a single phazar omni antenna, cross arm with fiber, power riser, communications riser, and associated equipment boxes on an existing wooden Southern California Edison (SCE) utility pole (ID#1411062E). The facility is proposed within the Poppy Avenue public right-of-way (PROW) adjacent and west of the property addressed as 3800 East Coast Highway. The proposed height of the antenna and related equipment will not exceed 35 feet in height where the existing utility pole is 44 feet 2 inches in height.

ACTION: Approved with Conditions – November 28, 2012

In approving this application, the Community Development Director analyzed issues regarding compliance with Chapter 15.70 of the Newport Beach Municipal Code. This approval is based on the findings and subject to the following conditions attached to this report (Attachment No. CD 2).

The Community Development Director determined in this case that the proposed wireless telecommunications facility (“telecom facility”) meets the provisions of Chapter 15.70.

ENCROACHMENT PERMIT

An encroachment permit issued and approved by the Public Works Department is required to allow installation and construction of the project in the PROW. Section 15.70.060 (Design Standards) of the Newport Beach Municipal Code (NBMC) also requires that telecom facilities and/or support equipment proposed to be located in the PROW

comply with the provisions of Title 13 (Streets, Sidewalks, and Public Property). The Public Works Department has reviewed the proposed project plans and submittal items, and has provided a condition of approval requiring that all work conducted in the PROW shall satisfy the requirements of Chapter 13.20.

BACKGROUND

This is one of seven applications that Crown Castle has filed with the City to install antenna nodes within the PROW along or in the vicinity of East and West Coast Highway. A location map of the proposed facilities is included as Attachment CD 3. Photographs of the existing site conditions are included as Attachment No. CD 4.

FACILITY DESCRIPTION

The nodes (radio transmitters and receivers connected via fiber optic cables to Crown Castle NG's wireless clients) include a phazar omni-directional antenna, measuring approximately 2 inches in diameter and 26 inches in length and a powerwave equipment box, measuring 8.2 inches in depth by 18 inches in width by 20.9 inches in height. The antenna would be attached 26 feet 7 inches high on an existing 44-foot 2-inch high free-standing utility pole and the equipment would not exceed 35 feet in height. The equipment boxes would be mounted to the exterior of an existing free-standing pole and would maintain a minimum clearance of 8 feet above existing grade. The facility does not require the use and placement of other support equipment, such as ground-mounted equipment cabinets or pedestal meters, for power to support the nodes. Rather, Crown Castle NG has an agreement for unmetered electric service in place with Southern California Edison (SCE), under which terms the installation would utilize a fuse box, measuring 6 inches in depth by 12 inches in width by 12 inches in height, and a disconnect switch measuring 4 inches in depth by 6 inches in width by 9 inches in height. The fuse box and disconnect switch would be mounted on the existing utility pole below the powerwave box.

HEIGHT AND LOCATION

Section 15.70.050 (Height and Location) of the NBMC provides that antennas may be installed on utility poles within the PROW at a maximum height of 35 feet, and designates existing utility poles as a priority location for the installation of telecom facilities. The facility is proposed to be located on an existing SCE utility pole with the equipment at a maximum height of 35 feet above grade.

DESIGN STANDARDS

Section 15.70.060 (Design Standards) of the NBMC establishes design standards, and provides criteria for consideration by the reviewing authority, which includes blending, screening and size of the proposed facility. In this case, the proposed antenna and equipment box are minimal in size and will be painted to blend in with the existing utility pole.

CO-LOCATION FEASIBILITY

Section 15.70.050.C (Co-Location Requirements) of the City of Newport Beach Municipal Code requires that a new telecom facility proposed within 1,000 feet of an existing facility be co-located on the same site as the existing facility unless, based on evidence submitted by the applicant, that such co-location is not feasible.

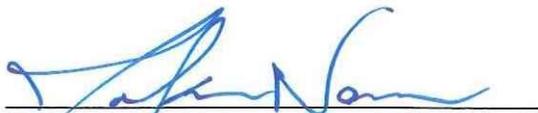
The proposed telecom facility is located within 1,000 feet of one existing facility located at 3602 East Coast Highway. The applicant has provided information indicating that co-locating with this facility is not feasible. The existing site is located on private property and would require a separate third-party agreement that could result in significant time and cost impacts without assurance that an acceptable agreement could be reached between the parties. Because the site currently accommodates high power macro antennas, the lower power antennas proposed by the Crown Castle NG DAS facility could not be ensured effective signal propagation. Finally, the existing facility is located within a screened structure on a rooftop of a commercial building that would require a modification to the rooftop structure and an anticipated increase to the overall height of the concealment structure to accommodate the Crown Castle NG antenna and coaxial connection. Refer to the applicant's project description and justification provided as Attachment No. CD 5.

APPEAL PERIOD

Telecom facility applications do not become effective until 14 days after the date of action, during which time the applicant or any interested party may appeal the decision of the Community Development Director and division staff to the City Council by submitting a written appeal application to the City Clerk. For additional information on filing an appeal, contact the City Clerk at 949-644-3005.

On behalf of Kimberly Brandt, Community Development Director

By:



Makana Nova
Assistant Planner
GR/mkn

Attachments: CD 1 Vicinity Map
CD 2 Findings and Conditions of Approval
CD 3 Location Map
CD 4 Site Photos
CD 5 Applicant's Project Description and Justification
CD 6 Photo Simulations
CD 7 Project Plans

Attachment No. CD 1

Vicinity Map

VICINITY MAP

Public ROW adjacent to 3800 East Coast Highway



Telecommunications Permit No. TP2012-005
(PA2012-042)

Attachment No. CD 2

Findings and Conditions of Approval

**FINDINGS AND
CONDITIONS OF APPROVAL
TELECOMMUNICATIONS PERMIT NO. TP2012-005
(PA2012-042)**

FINDINGS

1. The telecommunications facility as proposed meets the intent of Chapter 15.70 of the Newport Beach Municipal Code (NBMC), while ensuring public safety, reducing the visual effects of telecom equipment on public streetscapes, protecting scenic ocean and coastal views, and otherwise mitigating the impacts of such facilities for the following reasons:
 - The proposed telecom facility will not be detrimental to public health or safety and it is required to comply with the applicable rules, regulations and standards of the City, the Federal Communications Commission (FCC), and the California Public Utilities Commission (CPUC).
 - As conditioned, the approved DAS facility in this location will not result in conditions that are materially detrimental to nearby property owners, residents, and businesses, nor to public health or safety.
 - Due to the location and design of the DAS facility, there is no impact to public views. The proposed facility will not have an effect on public streetscapes, or scenic ocean and coastal views because the facility is proposed to be installed on an existing SCE utility pole located in the PROW, and in an area where there are no scenic ocean or coastal views.
 - The applicant selects locations based on the direction of their customers (in this case, MetroPCS). The DAS nodes are interspersed with existing traditional wireless macro cell sites to provide a system that meets the coverage objectives of the customer. Approving the installation of a DAS node would allow the facility to function as intended in this location.

2. The telecommunications facility as proposed conforms to the technology, height, location and design standards for the following reasons:
 - The telecom facility approved under this permit utilizes the most efficient and diminutive available technology in order to minimize the number of facilities and reduce the visual impact.
 - The installation of a DAS node in this location is consistent with the height, location and design standards specified in Sections 15.70.050 (Height and Location) and 15.70.060 (Design Standards) of the NBMC. The proposed antenna and equipment would be mounted at a height of 35 feet, where the code permits installation on utility poles within the PROW up to 35 feet, provided that the antenna does not exceed the top of the pole. Per

the code, the existing SCE utility pole is a priority location for the installation of the telecom facility. The proposed antenna and equipment boxes are minimal in size and would blend in with the existing SCE utility pole.

- The proposed telecom facility is located within 1,000 feet of one facility located at 3602 East Coast Highway. The applicant has provided information indicating that co-locating with this facility is not feasible due to time constraints associated with a third party agreement, the presence of high power macro antennas that may inhibit effective signal propagation, and rooftop modifications that will be necessary to accommodate an additional antenna and equipment. Other alternatives to the proposal were not identified because existing utility poles are considered a priority location for the installation of telecom facilities per Section 15.70.050.B.1 (Height and Location) of NBMC.
- The antennas and equipment for the telecom facility approved by this permit will be painted to match the color of the utility pole on which they are mounted.

This project has been reviewed, and it has been determined that it is categorically exempt from the requirements of the California Environmental Quality Act under Section 15301, Class 1 (Existing Facilities) for the following reason(s):

- Class 1 allows minor alteration of existing public or private structures where negligible or no expansion of an existing use is involved. The proposed project would be a minor alteration to an existing SCE utility pole.

CONDITIONS

1. The development shall be in substantial conformance with the approved plot plan, antenna and equipment plans, and elevations, except as noted in the following conditions.
2. The telecom facility approved by this permit shall comply with all applicable rules, regulations and standards of the Federal Communications Commission (FCC) and the California Public Utilities Commission (CPUC).
3. The telecom facility shall comply with all regulations and requirements of the Uniform Building Code, Uniform Fire Code, Uniform Mechanical Code and National Electrical Code. All required permits shall be obtained prior to commencement of the construction.
4. The telecom facility approved by the permit shall comply with any easements, covenants, conditions or restrictions on the underlying real property upon which the facility is located.

5. Approval of the California Coastal Commission is required prior to issuance of an encroachment permit for construction of the facility.
6. All equipment shall be painted and blended to match the utility pole on which it is located.
7. The proposed locations are currently not in an approved City formed Underground Assessment District. In the future, if or when a City formed Underground Assessment District is approved, the applicant shall be required to relocate the facility underground, pursuant to Section 13.20.030 (City Policies Regarding Use of the PROW) of NBMC.
8. The telecom facility shall comply with all regulations and requirements of Chapter 13.20 of the NBMC. All work in the public right-of-way shall require an approved Encroachment Permit. All required permits shall be obtained prior to commencement of the construction.
9. Prior to the issuance of any encroachment permit, architectural drawings and structural design plans shall be submitted to the City of Newport Beach for review and approval by the applicable departments. The construction plans shall satisfy NBMC Section 13.20.080 (Construction Plan) for permit application review and processing. A copy of this approval letter shall be incorporated into the drawings approved for the issuance of permits to construct the facility.
10. The applicant shall assume 100 percent of all costs associated with any alterations to the existing improvements along the public right-of-way for development of the telecom facility.
11. The applicant shall be responsible for the repair and/or replacement of any curb and gutters, concrete sidewalk, alley/street pavement that may be damaged by applicant or its agents, representatives, employees, contractors, or subcontractors through the course of construction, as directed by the Public Works Department.
12. The applicant is required to protect all City landscaping, trees, and irrigation in place. If any damage should occur, the contractor will be required to plant and/or replant as directed by the City and guarantee work for a minimum of one (1) year.
13. If a "hub" is located in City of Newport Beach, then battery storage shall comply with C.F.C. Section 608.1.
14. Prior to issuance of encroachment permits, any contractors and/or subcontractors doing work at this location must obtain a valid business license.
15. The applicant shall provide a "single point of contact" in its Engineering and Maintenance Departments that is monitored 24 hours per day to ensure

continuity on all interference issues, and to which interference problems may be reported. The name, telephone number, fax number and e-mail address of that person shall be provided to the Planning Division and Newport Beach Police Department's Support Services Commander prior to activation of the facility.

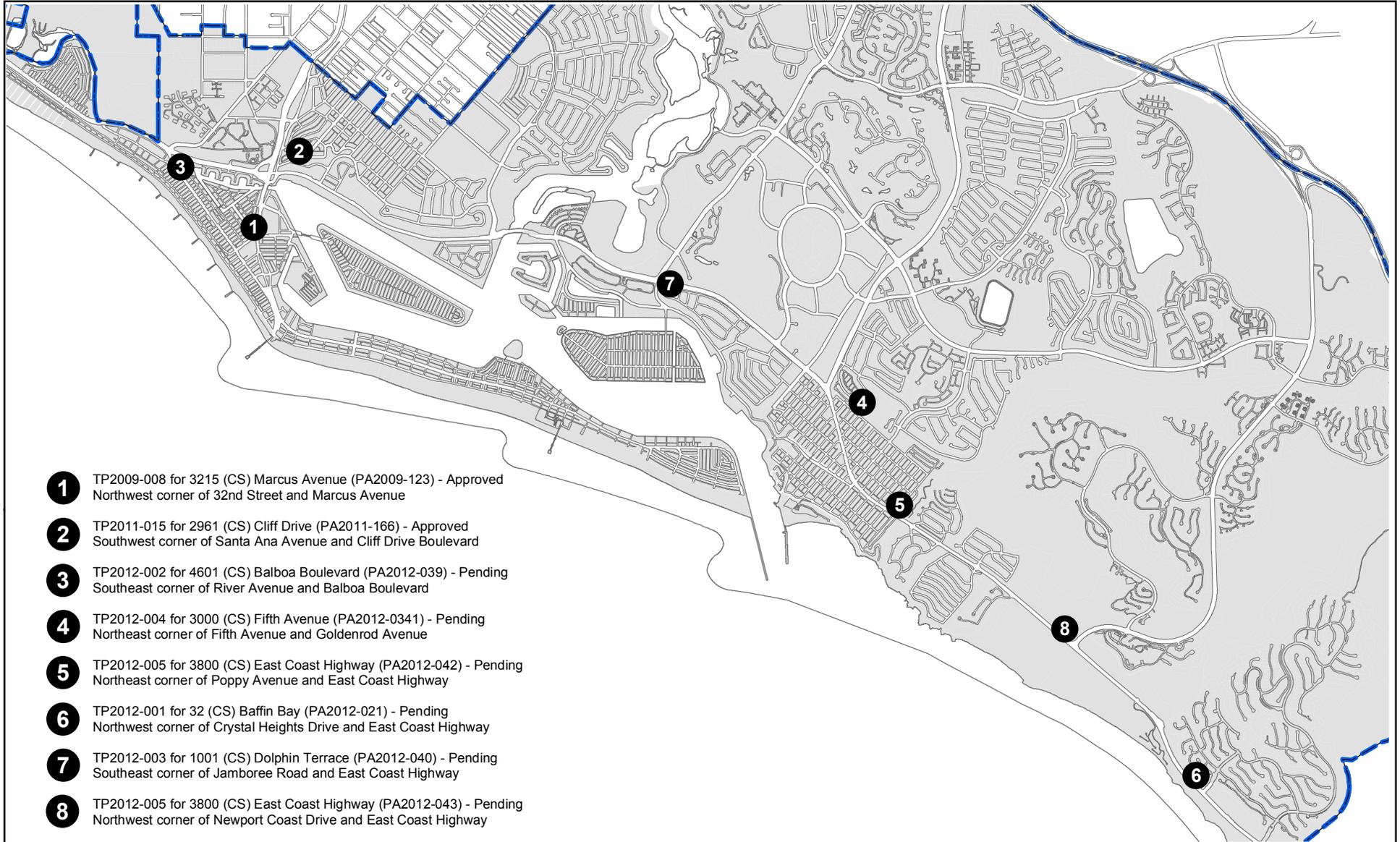
16. The applicant shall not prevent the City of Newport Beach from having adequate spectrum capacity on the City's 800 MHz radio frequencies at any time.
17. Should interference with the City's Public Safety radio equipment occur, use of the telecom facility authorized by this permit shall be suspended until the radio frequency interference is corrected and verification of the compliance is reported.
18. The facility shall transmit at a frequency range of 1,710 to 2,155 MHz. Any change or alteration to the frequency range shall require the prior review and approval of the Planning Division.
19. The applicant recognizes that the frequencies used by the cellular facility located at PROW adjacent to 3800 East Coast Highway are extremely close to the frequencies used by the City of Newport Beach for public safety. This proximity will require extraordinary "comprehensive advanced planning and frequency coordination" engineering measures to prevent interference, especially in the choice of frequencies and radio ancillary hardware. This is encouraged in the "Best Practices Guide" published by the Association of Public-Safety Communications Officials-International, Inc. (APCO), and as endorsed by the Federal Communications Commission (FCC).
20. Within 30 days after installation of the telecom facility, a radio frequency (RF) compliance and radiation report prepared by a qualified RF engineer acceptable to the City shall be submitted in order to demonstrate that the facility is operating at the approved frequency and complies with FCC standards for radiation. If the report shows that the facility does not so comply, the use of the facility shall be suspended until the facility is modified to comply and a new report has been submitted confirming such compliance.
21. Prior to issuance of an encroachment permit, a deposit of \$5,000 shall be paid to the City of Newport Beach. This deposit is required by the Planning Division to ensure preparation and submittal of the RF Compliance and Radiation Report, referenced in the above Condition No. 20. The deposit will be used to defray any and all fees associated with review of the report by an independent technical consultant, pursuant to Section 15.70.070.B.10 (Fee) of the Telecom Ordinance. Any unused deposit fees/costs will be refunded to the applicant upon determination of compliance with the approved frequency and FCC standards.
22. Appropriate information RF warning signs or plates shall be posted at the access locations and each transmitting antenna. In addition, contact information (e.g. a telephone number) shall be provided on the warning signs or plates to arrange

for access to the roof top area. The location of the information warning signs or plates shall be depicted on the plans submitted for construction permits.

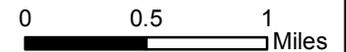
23. No advertising signage or identifying logos shall be displayed on the telecom facility except for small identification, address, warning and similar information plates. A detail of the information plates depicting the language on the plate shall be included in the plans submitted for issuance of encroachment permits.
24. Any future facilities proposed by other carriers to be located within 1,000 feet from the subject property shall be subject to the requirements of Section 20.70.050.C (Co-Location Requirements) of the NBMC.
25. Should the property be sold or otherwise come under different ownership, any future owners or assignees shall be notified of the conditions of this approval by either the applicant, current property owner or leasing agent.
26. The applicant shall insure that lessee or other user(s) shall comply with the terms and conditions of this permit, and shall be responsible for the failure of any lessee or other users under the control of the applicant to comply.
27. Any operator who intends to abandon or discontinue use of a telecom facility must notify the Planning Division by certified mail no less than 30 days prior to such action. The operator or property owner shall have 90 days from the date of abandonment or discontinuance to reactivate use of the facility, transfer the rights to use the facility to another operator, or remove the telecom facility and restore the site.
28. The City reserves the right and jurisdiction to review and modify any telecom permit approved pursuant to Chapter 15.70 (Wireless Telecommunications Facilities) of the Newport Beach Municipal Code, including the conditions of approval, based on changed circumstances. The operator shall notify the Planning Division of any proposal to change the height or size of the facility; increase the size, shape or number of antennas; change the facility's color, materials, or location on the site; or increase the signal output above the maximum permissible exposure (MPE) limits imposed by the radio frequency emissions guidelines of the FCC.
29. This telecom permit may be modified or revoked by the Community Development Director should they determine that the facility or operator has violated any law regulating the telecom facility, has failed to comply with the requirements of Chapter 15.70 (Wireless Telecommunication Facilities) of the NBMC, or this telecom permit.
30. This approval shall expire unless exercised within 24 months from the date of approval.

Attachment No. CD 3

Location Map

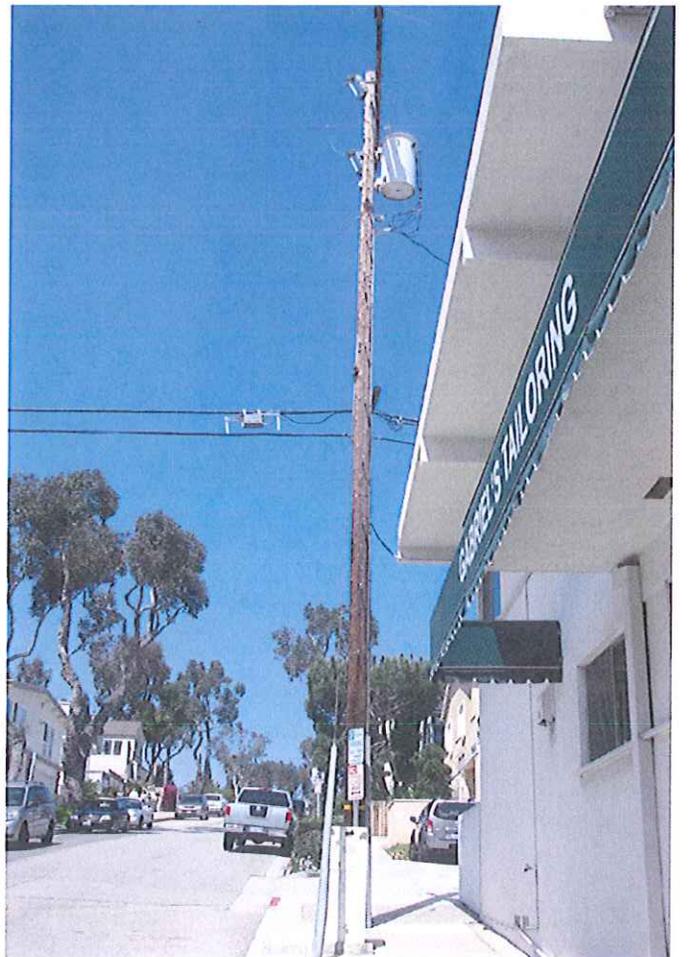


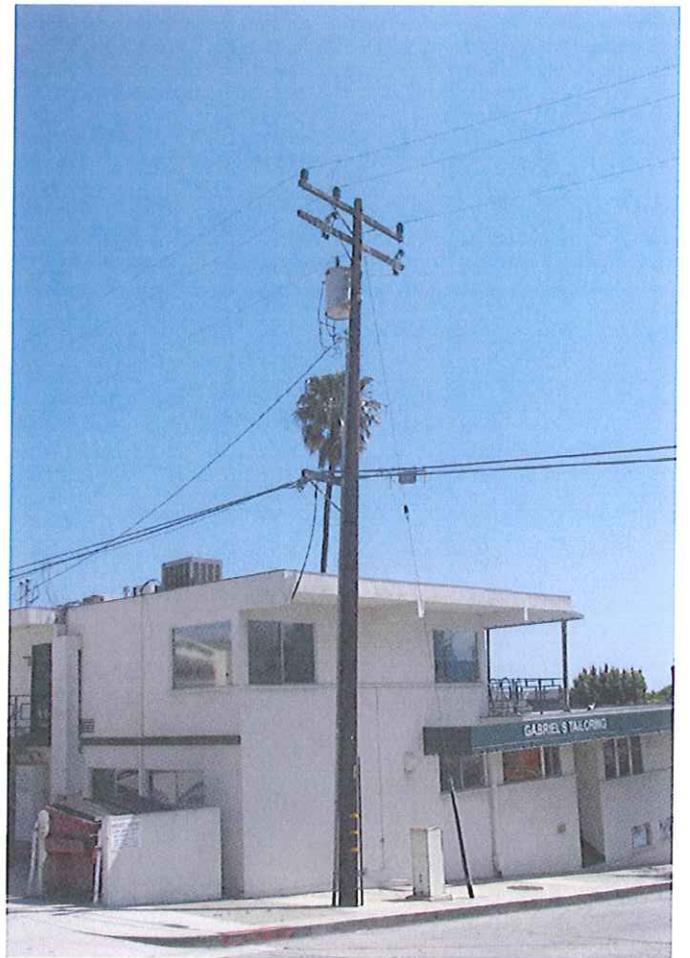
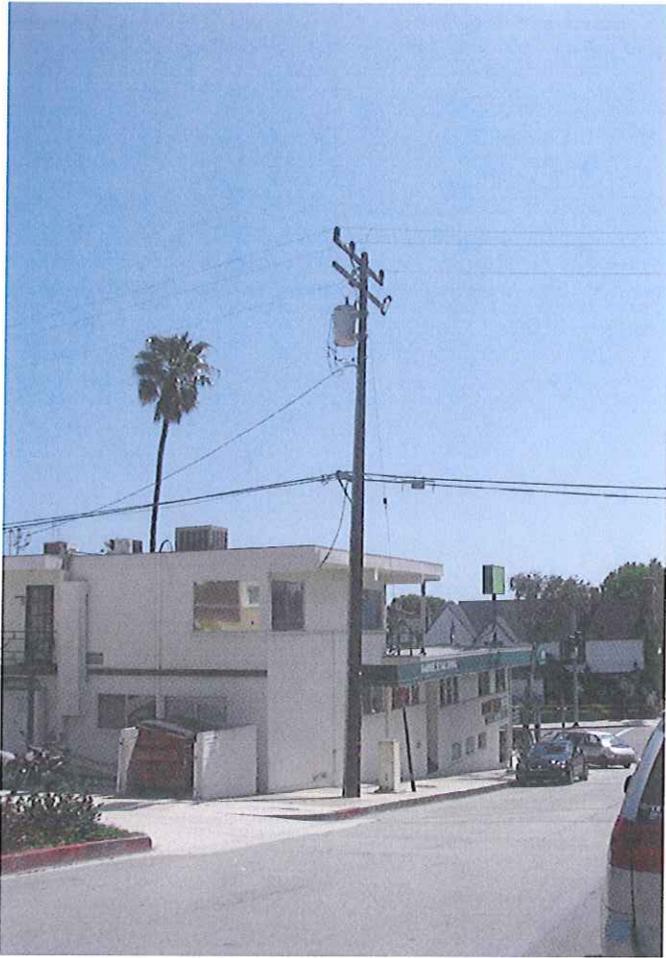
Crown Castle NG DAS Network



Attachment No. CD 4

Site Photos





Attachment No. CD 5

Applicant's Project Description
and Justification



PROJECT DESCRIPTION & SITE JUSTIFICATION

Revised 10/22/2012

Crown Castle NG West – City of Newport Beach

Project: Distributed Antenna System (DAS) Installation on Existing Utility Pole (SOC06m1)

Location: Public ROW adjacent to and west of 3800 East Coast Highway

Background

Crown Castle NG West Inc. (formerly NextG Networks of California Inc.) is a regulated public utility company in the State of California (CPCN No. U-6745-C) specializing in the provision of fiber-optic transport services for the commercial wireless industry. NextG relies upon its ability to utilize existing utility infrastructure (including streetlights, traffic signals and wood utility poles) within the public right-of-way to install individual or interconnected low power, low impact communications facilities collectively referred to as a “Distributed Antenna System” or DAS. Through a service agreement with a wireless carrier, Crown Castle/NextG is able to provide a DAS solution that addresses the carrier’s network objective(s), often in areas where the wireless provider has little or no existing service coverage for its customers, and where more traditional “macro” wireless facilities may be problematic due to topographic constraints, zoning restrictions, and other limiting factors. As a public utility, Crown Castle/NextG is obligated to provide service to any commercial wireless provider that is willing to purchase Crown Castle/NextG’s DAS right-of-way service. As such, Crown Castle/NextG’s customers are not individual wireless users/subscribers, but rather the commercial wireless carriers that provide that service. The subject telecom application on Poppy Ave near East Coast Highway is for a proposed DAS installation that will be utilized by MetroPCS to supplement its existing backbone network in Newport Beach, and will address a coverage deficiency not currently being met by MetroPCS’s existing network of macro installations.

Proposed Node Location and Surroundings

Crown Castle/NextG is proposing to locate a new DAS installation (or node) on an existing wood utility pole (Pole ID# 1411062E) in the public right-of-way adjacent to and west of 3800 East Coast Highway. This DAS node is identified by Crown Castle/NextG as SOC06m1. Surrounding zone districts include R1 (Single Unit Residential) to the northeast, CC (Commercial Corridor) to the southeast and southwest, and R2 (Two Unit Residential) to the northwest. Surrounding land uses include single-family residences to the northeast, retail commercial along East Coast Highway to the southeast and southwest, and single-family residences to the northwest. The proposed node location is part of an existing overhead utility alignment that runs parallel with East Coast Highway along the back of the commercial properties fronting East Coast Highway. The wood poles in this existing alignment contain various power and communications cable spans, as well as guy wires, streetlights, and other pole-mounted equipment. The existing wood poles in this overhead alignment may vary in overall height, but appear to extend 40’-50’ to the top of pole. The subject pole measures 44’-2” to the top of pole.

Proposed Node Design

Crown Castle/NextG is proposing to install a small omni directional antenna approximately 28’-7” above ground level on an existing communications line, and attach appurtenant equipment (consisting of a Powerwave radio unit, electrical disconnect box, and fuse box) at a minimum height of 8’-0” above ground level on an existing wood utility pole as illustrated in the attached project drawings. More specifically, the proposed scope of work consists of the following improvements:

- ✚ Install new 18”W x 20”H Powerwave radio unit, new 12”W x 12”H WTR fuse box, and new 6”W x 9”H electrical disconnect box on pole at minimum 8’-0” above grade. All equipment to be painted to match underlying pole.
- ✚ Install new NextG fiber line on existing crossarm at 24’-7”.
- ✚ Install new braceless crossarm at 26’-7”, and place new 2”Dia., 24”L Phazar omni-directional antenna on crossarm (28’-7” to top of antenna). New Phazar antenna to be offset approximately 3’-0” from NW side of pole.
- ✚ Install 1” Schedule 80 power riser and 2” Schedule 80 comm riser on pole.

Joint Pole Authorization

Crown Castle/NextG is a member in good standing of the Southern California Joint Pole Committee (JPC) and is authorized to install the proposed DAS facility on the existing wood utility pole (Pole ID# 1411062E) as described in this application. Through this membership, Crown Castle/NextG derives its authority to apply and obtain approval from the JPC to attach to poles within the purview of the JPC.

Technology

The proposed Crown Castle/NextG node installation utilizes a patented protocol- and frequency-neutral technology which allows the Crown Castle/NextG antenna to interface with its Client's customers within the Client's licensed portion of the radio spectrum. Those signals are subsequently routed through Crown Castle/NextG's fiber optic network and linked back into the Client's network operations center. In this way, Crown Castle/NextG is able to provide its Client with expanded wireless service so the carrier can effectively meet the communications needs of its customers in the affected area(s).

Operational Compliance

The proposed Crown Castle/NextG installation will operate in full compliance with established FCC standards and requirements for RF emissions. By design, the proposed DAS installation consists of a low power, low output facility that falls well below federal standards for radio-frequency emissions. Maximum input power for the proposed Powerwave radio unit is approximately 25 watts. The proposed Phazar omni-directional antenna will transmit at a frequency between 1,710 and 2,155 MHz, and be elevated 26'-7" to 28'-7" above ground level. Thus, even under maximum power, the level of RF exposure at ground level from the proposed DAS installation will not exceed 2% of the FCC public safety standard as detailed in the attached RF Report prepared by Dr. Jerrold T. Bushberg. Additionally, the proposed project will not interfere with other communication, radio or television transmission/reception in and around the subject location. As detailed in the design description above, the proposed DAS installation will also comply with CPUC and local utility regulations associated with the construction, operation and maintenance of the facility.

CEQA

As noted, Crown Castle/NextG was granted a Certificate of Public Convenience and Necessity (CPCN) by the CPUC. The authority conveyed upon Crown Castle/NextG through CPCN No. U-6745-C allows for the provision of limited and full facilities-based telecommunications services subject to the terms and conditions set forth in the grants of approval dated January 30, 2003 and April 12, 2007. See attached Regulatory Overview for additional information pertaining to NextG's regulatory status and CEQA compliance.

Code Conformance / Justification Statement (Chapter 15.70 – Wireless Telecommunication Facilities)

The proposed Crown Castle/NextG DAS installation is a small scale, low power, more diminutive wireless design option by comparison to more traditional 'macro' wireless communication facilities which is consistent with the objective set forth in Section 15.70.040 – Available Technology.

The proposed Crown Castle/NextG DAS installation involves the placement of a small 24" omni-directional antenna on an existing fiber communications line with a proposed top of antenna elevation at 28'-7" AGL which does not exceed the 35'-0" max height limitation for the attachment of antennas on utility distribution poles as set forth in Section 15.70.050.A.

The proposed Crown Castle/NextG DAS installation is to be attached to a wood utility pole that is part of an existing overhead utility alignment that extends parallel with East Coast Highway along the back of the commercial corridor properties. As such, this location is considered the second most preferred 'location' type in the order of preference set forth in Section 15.70.050.B.

As discussed above, Crown Castle/NextG is a regulated public utility company in the State of California (CPCN No. U-6745-C) specializing in the provision of fiber-optic transport services for the commercial wireless industry. Crown Castle/NextG relies upon its ability to utilize utility infrastructure within the public right-of-way to install individual or interconnected low power, low impact communications facilities collectively referred to as a "Distributed Antenna System" or DAS. Staff has identified an existing telecommunications facility located within 1000 feet of the proposed Crown Castle/NextG DAS location at 3602 East Coast Highway. While Crown Castle/NextG appreciates the City's desire to promote the co-location of wireless communications facilities, Crown Castle/NextG is not prepared to consent to co-location with this existing telecommunications facility on East Coast Highway for the following reasons:

- ✦ **Outside Public Right-of-Way.** The existing telecommunications facility is currently located outside of the public right-of-way on the rooftop of a privately-owned commercial building. As a licensed public utility, Crown Castle/NextG remains committed to the placement of its proposed fiber-based communications infrastructure within the limits of the public right-of-way where the State's Public Utilities Commission (PUC) has determined to be the appropriate and intended place for the installation of utility infrastructure and as substantiated in Section 7901 of the Public Utilities Code.
- ✦ **Third-Party Agreement.** This location requires that Crown Castle/NextG relocate and redesign the proposed DAS installation, and subsequently enter into a lease agreement with the underlying building owner and/or property owner for the placement of the proposed DAS installation on the rooftop of the commercial building. It is evident that such a requirement would result in significant time and cost impacts to Crown Castle/NextG without any assurance that an acceptable agreement could be reached between the parties, and without any assurance from the City that the project would result in an approvable alternative.
- ✦ **Constructability/Space Constraint.** The existing rooftop telecommunications facility represents a complete concealment design, with all existing antennas located inside the existing rooftop structure. Based on a preliminary assessment, the proposed Crown Castle/NextG DAS installation would require a modification to the rooftop structure and an anticipated increase to the overall height of the concealment structure to accommodate the Crown Castle/NextG antenna and coaxial connection.
- ✦ **Signal Shadowing/Attenuation Constraint.** By design, Crown Castle/NextG's proposed 24" omni-directional antenna is intended to be mounted on existing utility crossarms or aerial communication lines whereby the antenna has spatial separation from the surrounding built and natural environment to ensure effective signal propagation. Efforts to incorporate the proposed omni-directional antenna in the existing rooftop concealment structure (or even if allowed to extend above), would result in significant signal attenuation from the roof deck of the building. Additionally, in the absence of modifications to the existing concealment structure, efforts to incorporate the proposed DAS omni-directional antenna with the existing concealment structure would likely result in signal shadowing due to the proximity of the existing 'high power' (generally 200 watts per channel peak power) macro antennas to the proposed 'low power' (approximately 6.7 watts per channel peak power) Crown Castle/NextG DAS installation. An analogy may be drawn to the human ear trying to differentiate between two competing voices. Typically, the louder voice wins out and is heard over the softer voice. In much the same way, the stronger RF signal can better differentiate itself when competing against a weaker RF signal in close proximity to each other. Just as a softer voice may not be fully heard and understood, a weaker RF signal may not be properly received/transmitted in the presence of a stronger, more dominant RF signal.

As currently proposed, the DAS installation will be co-located with other utility equipment and services, and does not preclude the future co-location of other wireless communications equipment at this same location. In light of this information, the proposed DAS installation is consistent with Section 15.70.050.C.

As described above, and as detailed in the node drawings accompanying this application, the proposed Crown Castle/NextG DAS installation is small in scale and can be affixed directly to the existing fiber line and wood utility pole and painted to match. As such, the installation is compatible in use and size with other utility appurtenances on the wood utility poles in this area, and is likely to blend effectively with other utility facilities already established in this area, which are general criteria set forth in Section 15.70.060. No lighting is proposed. No advertising signage or identifying logos shall be displayed, other than required FCC identification/warning signs/plates.

Attachment No. CD 6

Photo Simulations



NextG Networks

Exhibit 7.01

Color Photo Study and Color Photo Simulations



PHOTO STUDY

PROPOSAL TO INSTALL DAS COMMUNICATIONS
NODE IN PUBLIC RIGHT-OF-WAY

SOC06

Existing Utility Pole adjacent to 408 Poppy Ave (at E. Coast Highway)
Newport Beach, CA

Prepared for:

City of Newport Beach
3300 Newport Blvd
Newport Beach, CA 92663

Prepared by:

PlanCom, Inc.
*Contractor Representatives for **NextG Networks of CA***
250 El Camino Real, Suite 117
Tustin, CA 92780

Contact:

Carver Chiu, Planning Consultant
(949) 290-9678

March 30, 2012



VIEW #1 – Looking NORTHWEST from proposed DAS node location



VIEW #2 – Looking NORTHEAST from proposed DAS node location



VIEW #3 – Looking SOUTHEAST from proposed DAS node location



VIEW #4 – Looking SOUTHWEST from proposed DAS node location



NextG Networks



VIEW #5 – Looking SOUTHWEST at proposed DAS node location (from Poppy Ave)



VIEW #6 – Looking SOUTHWEST at proposed DAS node location (from Poppy Ave & 2nd Ave)



VIEW #7 – Looking EAST at proposed DAS node location (from adjacent commercial use)



VIEW #8 – Looking NORTHEAST at proposed DAS node location (from E. Coast Highway & Poppy Ave)

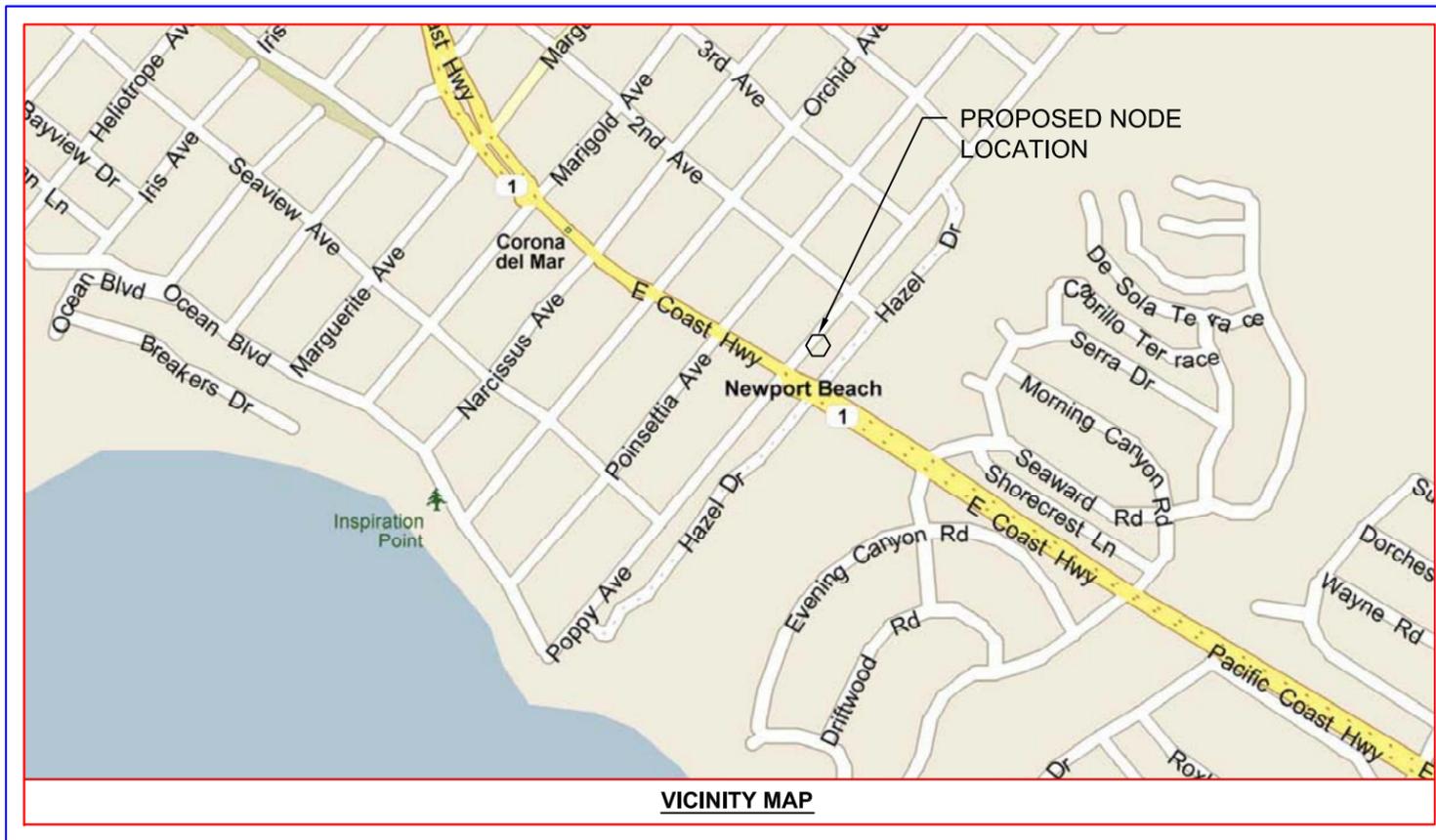
Attachment No. CD 7

Project Plans



MPC1032CA-SOC06m1

POLE #1411062E
PUBLIC ROW ADJACENT TO
AND WEST OF 3800 E. COAST HIGHWAY
CITY OF NEW PORT BEACH, CA



GENERAL NOTES

- INDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES, THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNIFY AND HOLD REPRESENTATIVES, AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
- PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, THE CONTRACTOR SHALL FULLY COMPLY WITH "CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH" ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO.
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF GO 95, 128, AND THE STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", AS ADOPTED BY THE CITY, COUNTY, OR STATE AS MODIFIED BY STANDARDS PLANS AND ADDENDUMS.
- THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCIES FACILITIES AS SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS, OTHER FACILITIES MAY EXIST, THE CONTRACTOR SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OR WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY, OR STATE ENGINEER INSPECTION DEPARTMENT, AT LEAST TWO DAYS BEFORE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
- ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WORK AREA TRAFFIC CONTROL HANDBOOK AND SPECIFICATIONS FROM THE CITY, COUNTY OR STATE.
- THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THE FINISHED GRADE AT ALL TIMES.
- THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 24 INCHES TO THE FINISHED GRADE AT ALL TIMES.
- THE CONTRACTOR SHALL TUNNEL ALL CURB AND GUTTERS AND BORE ALL CONCRETE DRIVEWAYS AND WALKWAYS AT THE DIRECTION OF THE CITY, COUNTY, OR STATE INSPECTOR.
- ALL AC, AND / OR CONCRETE PAVEMENT SHALL BE REPLACED AT THE DIRECTION OF THE CITY, COUNTY, OR STATE ENGINEERS.
- ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND / OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- IF DAMAGE OCCURS TO THE CITY OR COUNTY FACILITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY TRAFFIC CONTROL LIGHTING, AND STREET LIGHTING.
- AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK, NOTIFY THE POLICE TRAFFIC BUREAU AND THE FIRE DEPARTMENT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROCESSING OF ALL APPLICATION PERMIT FORMS ALONG WITH THE REQUIRED LIABILITY INSURANCE FORMS, CLEARLY DEMONSTRATING THAT THE CITY, COUNTY OR STATE IS ALSO INSURED WITH THE REQUIRED LIABILITY INSURANCE IN THE AMOUNT OF \$1,000,000 FOR THIS CONSTRUCTION PROJECT.
- VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER, ANY AND ALL DEVIATIONS FROM THE SPECIFIED TYPES OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER IN WRITING BEFORE INSTALLATION THEREOF.
- ALL U.G. CONDUIT MUST BE SCHEDULE 40 OR BETTER.
- CONDUIT REQUIREMENTS:
UG-SCHEDULE 40 EXCEPT ALL RADIUS CONDUITS TO BE SCH. 80 RISERS-SCHEDULE 80
ALL CONDUIT MANDRELED & EQUIPPED WITH 3/8" PULL ROPE & MEASURING TAPE
- GROUND REQUIREMENTS:
5/8" ROD-10' LENGTH
#2 GROUND WIRE
WOOD MOLDING, STAPLED EVERY 3' AND AT EACH END GROUNDS 2' FROM POLE
- POWER REQUIREMENT FOR 3 WIRE SERVICE 120/240V
- CONTRACTOR SHALL NOTIFY POWER COMPANY THREE DAYS PRIOR TO TRENCH EXCAVATION FOR CONDUIT INSPECTION.

REV	DATE	DESCRIPTION	BY



1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
TICKET # _____

SHEET INDEX:

TITLE SHEET	SHEET 1 OF 7
SITE PLAN	SHEET 2 OF 7
POLE PROFILE	SHEET 3 OF 7
DETAIL SHEET	SHEET 4 OF 7
DETAIL SHEET	SHEET 5 OF 7
TRAFFIC CONTROL COVER SHEET	SHEET 6 OF 7
TRAFFIC CONTROL	SHEET 7 OF 7



COASTAL COMMUNICATIONS
3355 Mission Ave Ste. 234
Oceanside, Ca 92058
(760) 754-9240

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS ARE TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.	
1. CALIFORNIA ADMINISTRATIVE CODE (INCL TITLES 24 & 25)	5. ANSI/DIA-222-F LIFE SAFETY CODE NEPA-101
2. 2010 CALIFORNIA BUILDING CODE WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.	6. UNIFORM PLUMBING CODE
3. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)	7. NATIONAL ELECTRIC CODE
4. UNIFORM MECHANICAL CODE	8. LOCAL BUILDING CODE
	9. CITY/COUNTY ORDINANCES
CODE COMPLIANCE	

GENERAL CONTRACTOR NOTES:
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 BE RESPONSIBLE FOR SAME.

PROJECT DESCRIPTION
NEXTG TO MOUNT WTR FUSE BOX, DISCONNECT BOX, AND POWERWAVE AT 8' 0" ABOVE GROUND LEVEL. PROPOSED BRACELESS ARM WITH PHAZAR OMNI ANTENNA ATTACHED AT END. PROPOSED FIBER ON EXISTING CEA, PLACE FIBER T.O.P. OF ARM

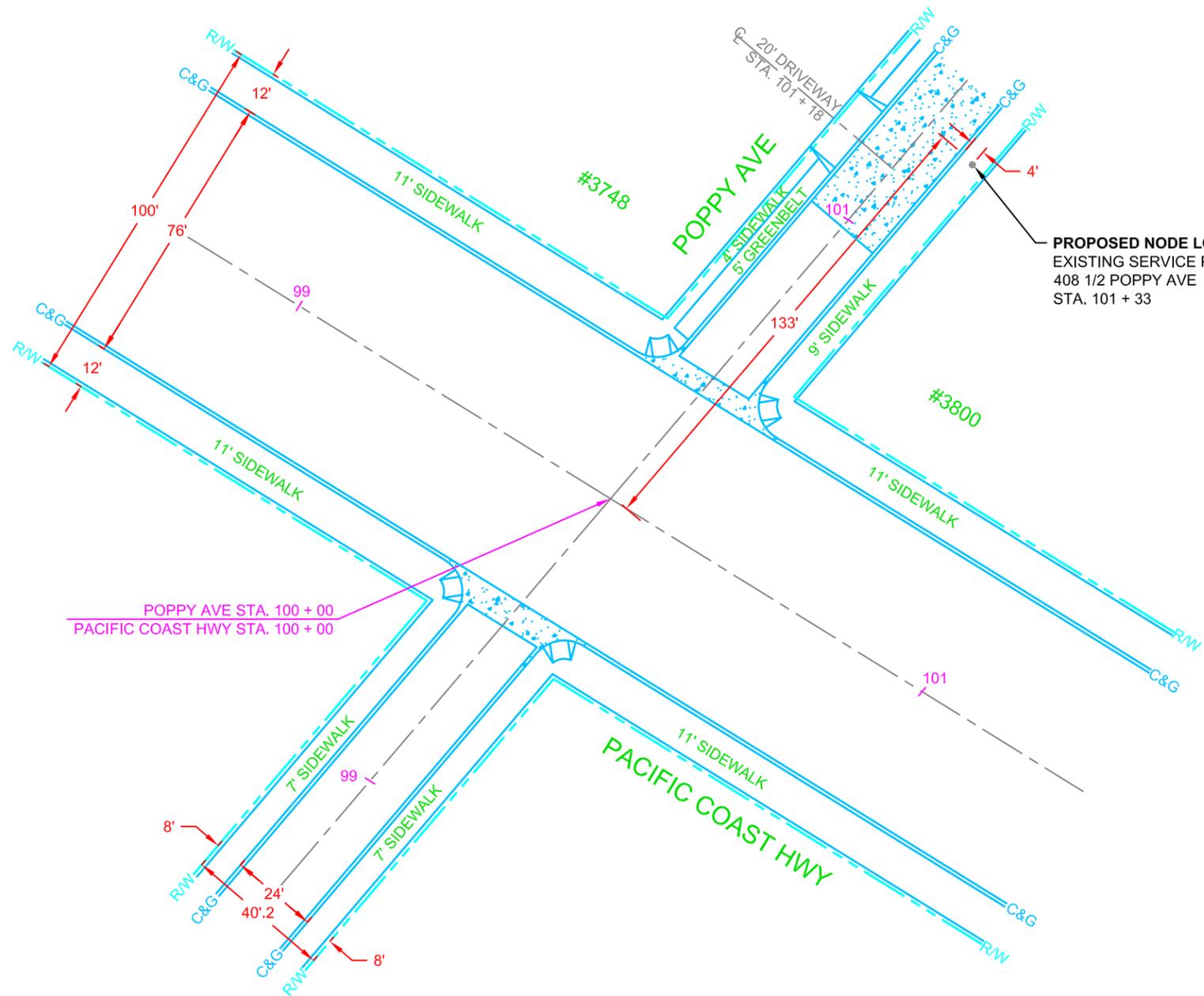
PROJECT MANAGER
NAME: NEXTG NETWORKS ADDRESS: 2125 WRIGHT AVE STE C9 CITY, STATE, ZIP: LA VERNE, CA 91750 CONTACT: GENE MITCHELL (909) 593-9700 EMAIL: GMITCHELL@NEXTGNETWORKS.NET
PROJECT MANAGER
NAME: HP COMMUNICATIONS INC. ADDRESS: 13341 TEMESCAL CANYON RD CITY, STATE, ZIP: CORONA, CA 92883 CONTACT: JORGE BECERRA (951) 572-1252 EMAIL: JORGE.BECERRA@HPCOMMINC.COM

POWER MANAGER
NAME: NEXTG NETWORKS ADDRESS: 2125 WRIGHT AVE STE C9 CITY, STATE, ZIP: LA VERNE, CA 91750 CONTACT: JOE ARNOLD (909) 593-9700 EMAIL: JARNOLD@NEXTGNETWORKS.NET
NODE ENGINEER
NAME: COASTAL COMMUNICATIONS ADDRESS: 3355 MISSION AVE STE. 234 CITY, STATE, ZIP: OCEANSIDE, CA 92058 CONTACT: TODD THREW (760) 754-9240 ext. 101 EMAIL: TODD@COASTALCOMMINC.COM

DESIGN TYPE: NODE DESIGN	PHASE: 6
T.B.G. MAP NO.: 919-F3	
TOTAL TRENCH FOOTAGE: NA	
ENGINEERED BY: CCI	DATE: 03/26/12
DRAFTED BY: ARVIN SEGISMAR	REVISED DATE: 07/16/12
ELECTRONIC FILE NAME: MPC1032CA-SOC06m1	

LATITUDE: 33.594028
LONGITUDE: -117.866586
HEADEND: SOUTH ORANGE COUNTY
BASE STATION ID: NA
CASCADE ID: NA
SITE NO.: MPC1032CA-SOC06m1
LOCATION: PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HIGHWAY CITY OF NEW PORT BEACH, CA
PLAN No.: SHEET 1 OF 7

TITLE SHEET



PROPOSED NODE LOCATION
 EXISTING SERVICE POLE #1411062E
 408 1/2 POPPY AVE
 STA. 101 + 33

EQUIPMENT LEGEND

- = SERVICE POLE
- = RIGHT OF WAY
- = CENTERLINE
- = CURB & GUTTER

NORTH

SCALE 1" = 40'

DIGALERT



1-800-227-2600
 CALL AT LEAST TWO DAYS
 BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
 TICKET # _____

CCI
 TELECOMMUNICATIONS
 CONSULTANTS

COASTAL COMMUNICATIONS
 3355 Mission Ave Ste. 234
 Oceanside, Ca 92058
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NEXTG TO MOUNT WTR FUSE BOX, DISCONNECT BOX, AND POWERWAVE AT 8' 0" ABOVE GROUND LEVEL. PROPOSED BRACELESS ARM WITH PHAZAR OMNI ANTENNA ATTACHED AT END. PROPOSED FIBER ON EXISTING CEA. PLACE FIBER T.O.P. OF ARM

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POWER MANAGER

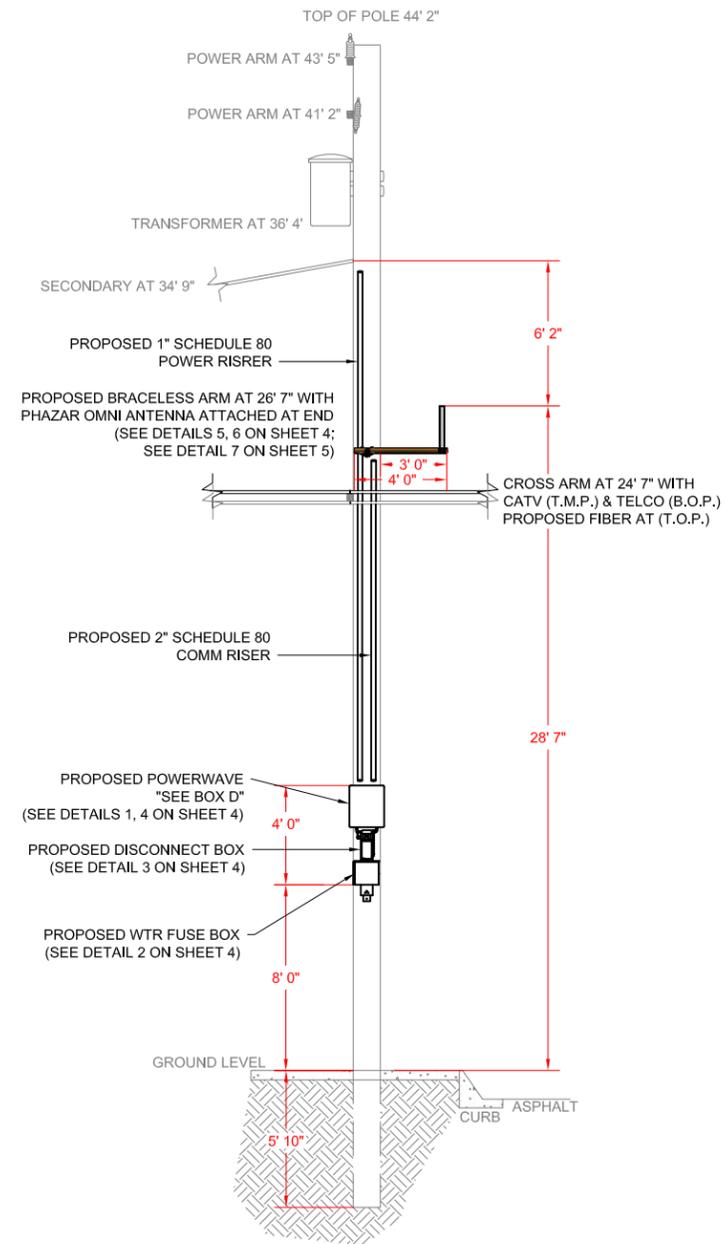
NAME: NEXTG NETWORKS
 ADDRESS: 2125 WRIGHT AVE STE C9
 CITY, STATE, ZIP: LA VERNE, CA 91750
 CONTACT: JOE ARNOLD
 PHONE: (909) 593-9700
 EMAIL: JARNOLD@NEXTGNETWORKS.NET

NODE ENGINEER

NAME: COASTAL COMMUNICATIONS
 ADDRESS: 3355 MISSION AVE STE. 234
 CITY, STATE, ZIP: OCEANSIDE, CA 92058
 CONTACT: TODD THREW
 PHONE: (760) 754-9240 ext. 101
 EMAIL: TODD@COASTALCOMMINC.COM

DESIGN TYPE: NODE DESIGN	PHASE: 6
T.B.G. MAP NO.: 919-F3	
TOTAL TRENCH FOOTAGE: NA	
ENGINEERED BY: CCI	DATE: 03/26/12
DRAFTED BY: ARVIN SEGISMAR	REVISED DATE: 07/16/12
ELECTRONIC FILE NAME: MPC1032CA-SOC06m1	
SITE PLAN	

LATITUDE: 33.594028	
LONGITUDE: -117.866586	
HEADEND: SOUTH ORANGE COUNTY	
BASE STATION ID: NA	
CASCADE ID: NA	
SITE NO.: MPC1032CA-SOC06m1	
LOCATION: PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HIGHWAY CITY OF NEW PORT BEACH, CA	
PLAN No.:	SHEET 2 OF 7



MAKE READY

UTILITY STEP POLE

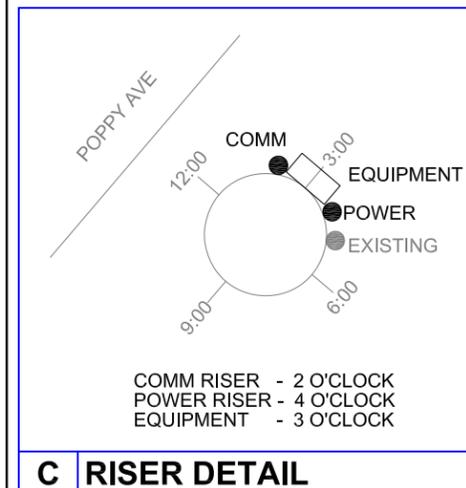
NEW CONSTRUCTION

NEXTG TO MOUNT WTR FUSE BOX, DISCONNECT BOX, AND POWERWAVE (WITH RF STICKER) AT 8' 0" ABOVE GROUND LEVEL.
 PROPOSED BRACELESS ARM WITH PHAZAR OMNI ANTENNA ATTACHED AT END AT 26' 7"
 PROPOSED FIBER ON EXISTING CEA AT 24' 7". PLACE FIBER T.O.P. OF ARM

NOTES:

TOP OF POLE: 44' 2"
 TOP OF ANTENNA: 28' 7"
 ANTENNA TYPE: PHAZAR OMNI

"CONSTRUCTION NOTE: ANTENNA, ION, AND WTR TO BE MOUNTED ON UTILITY POLE. NO METER PEDESTALS INSTALLED."



INFORMATION

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 THIS SITE DOES NOT EXCEED THE FCC PUBLIC EXPOSURE STANDARD AND THUS HAS BEEN DETERMINED TO BE SAFE FOR THE GENERAL POPULATION.

Reference: Federal Communications Commission (FCC) Public Exposure Standard, OET Bulletin-65, Edition 07-01, August 1987.

C RISER DETAIL

D RF STICKER

SCALE
N.T.S.

DIGALERT



1-800-227-2600
 CALL AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT

TICKET # _____

A POLE #1411062E

3 O'CLOCK VIEW

SCALE
N.T.S.

B DIGITAL PHOTO

1 O'CLOCK VIEW

SCALE
N.T.S.

SERVICE EQUIPMENT POLE PROFILE



COASTAL COMMUNICATIONS
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 Oceanside, Ca 92058
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- | | |
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| | 9. CITY/COUNTY ORDINANCES |

CODE COMPLIANCE

GENERAL CONTRACTOR NOTES

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PROJECT DESCRIPTION

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PROJECT MANAGER

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 CONTACT: JORGE BECERRA
 PHONE: (951) 572-1252
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PROJECT TEAM

POWER MANAGER

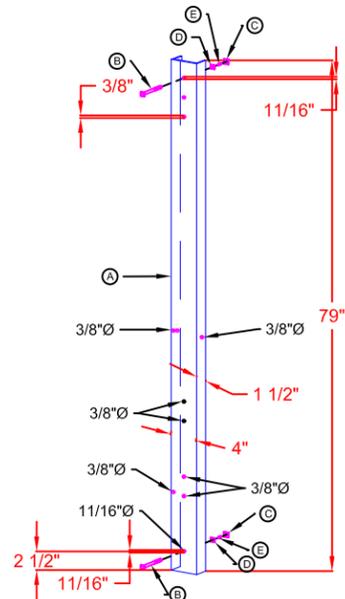
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T.B.G. MAP NO.: 919-F3		LONGITUDE: -117.866586
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DRAFTED BY: ARVIN SEGISMAR	REVISED DATE: 07/16/12	CASCADE ID: NA
ELECTRONIC FILE NAME: MPC1032CA-SOC06m1		SITE NO.: MPC1032CA-SOC06m1
POLE PROFILE		LOCATION: PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HIGHWAY CITY OF NEW PORT BEACH, CA
		PLAN No.: SHEET 3 OF 7

POLE MOUNTING BACK PLATE

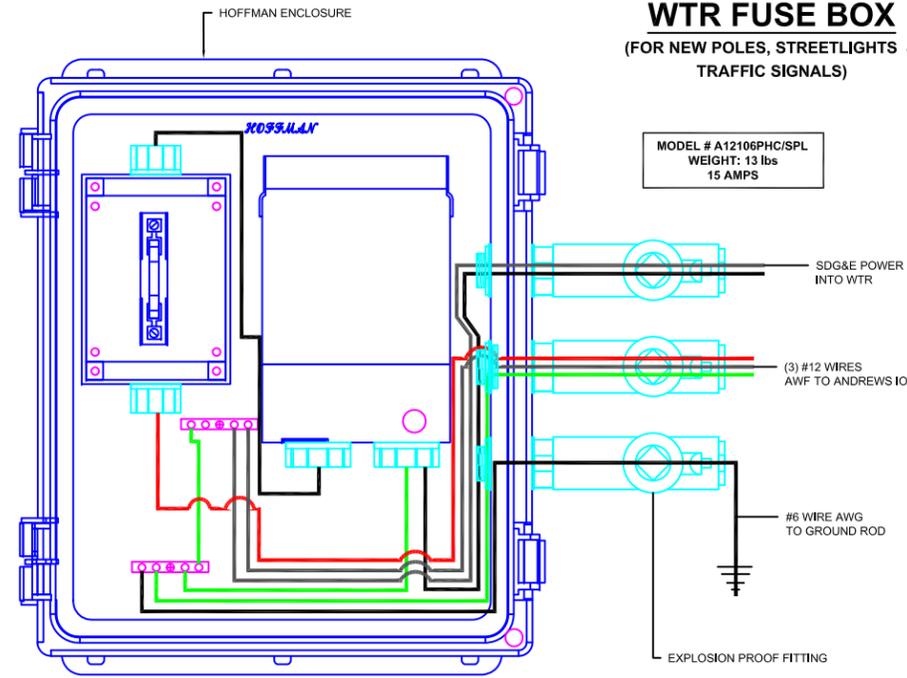


PART LIST		
CALL OUT	QTY	DESCRIPTION
A	1	MOUNTING PLATE 79" L X 4" W X 1.5D" D
B	2	MACHINE BOLT 16" X 5/8"
C	2	SQUARE NUT 5/8"
D	2	FLAT SQUARE WASHER 4 1/2" X 4 1/2"
E	2	DOUBLE COIL SPRING WASHER

1 SCALE N.T.S.

WTR FUSE BOX

(FOR NEW POLES, STREETLIGHTS & TRAFFIC SIGNALS)

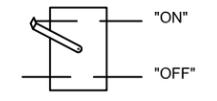


MODEL # A12106PHC/SPL
WEIGHT: 13 lbs
15 AMPS

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

2 SCALE N.T.S.

DISCONNECT BOX

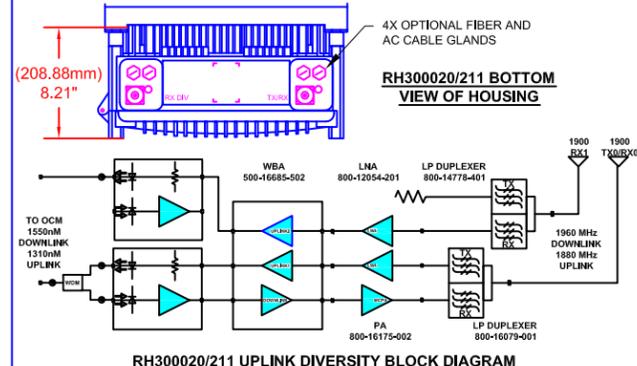


- NOTES:
1. MAIN DISCONNECT BREAKER.
 2. MANUFACTURER SQUARE D - (OR EQUIVALENT).
 3. BREAKER SIZE AND INCIDENTAL WIRING SPECIFIED BY CLIENT.
 4. KAIC SPECIFIED BY POWER COMPANY.
 5. 1" CLOSE NIPPLE FOR FEED FROM POWER SOURCE.
 6. 3/4" LIQUID FLEX TO TRANSCEIVER.
 7. CABINET LOCKABLE FOR CLIENT ONLY

3 SCALE N.T.S.

POWERWAVE

(WIDEBAND COVERAGE SYSTEM :
MODEL RH300020/101 / RH300020/211 / RH300020/102)



TECHNICAL SPECIFICATIONS

ELECTRICAL DATA		FREQUENCY RANGE UPLINK		1850 - 1915 MHz	
FIBER LINK BUDGET		FREQUENCY RANGE DOWNLINK		1930 - 1995 MHz	
GAIN ADJUSTMENT RANGE (1 dB STEPS)		FIBER LINK BUDGET		10 dB	
GAIN STEP RESOLUTION		GAIN ADJUSTMENT RANGE (1 dB STEPS)		25 dB	
OUTPUT POWER (COMPOSITE PER BAND)		GAIN STEP RESOLUTION		1 dB	
OUTPUT POWER DL (dBm/CARRIER)		OUTPUT POWER (COMPOSITE PER BAND)		+43 dBm	
ALARM		OUTPUT POWER DL (dBm/CARRIER)		# cARRIERS	
POWER SUPPLY OPTIONS		ALARM		TDMA GSM	
POWER CONSUMPTION		POWER SUPPLY OPTIONS		CDMA WCDMA	
MECHANICAL DATA		POWER CONSUMPTION		WCDMA	
ENVIRONMENTAL DATA		MECHANICAL DATA		WCDMA	
APPROVALS AND TEST		ENVIRONMENTAL DATA		WCDMA	
		APPROVALS AND TEST		WCDMA	

4 SCALE N.T.S.

CROSSARM SHELF GAIN

(Model #PG84XE12)

Crossarm Shelf Gain provides a strong stable connection to the pole and reduces the need for braces. Dead ending of guying located directly under the arm. Steel arms can be bolted to shelf.

PRODUCT SPECIFICATIONS	
Product Group	Gain, Crossarm
Product Type	Shelf
Mounting Bolt	Two 3/4"
Pole Diameter	4" Channel
Shape	Shelf Gain, Not Applicable
Type of Back	Shelf Gain, Not Applicable
Product Finish	Galvanized
Material	Ductile Iron per ASTM A-537
Return Type	Non-Standard
UPC Code	09635905015
Standard Package	5
Unit of Measure	EA
Min Order Qty	5
Pallet Quantity	80
Weight / Ea.	10.045 lbs

COMPRESSED PRODUCT NUMBER
PG84XE12

5 SCALE N.T.S.

E1710 - 2155 MHz OMNI-DIRECTIONAL ANTENNA

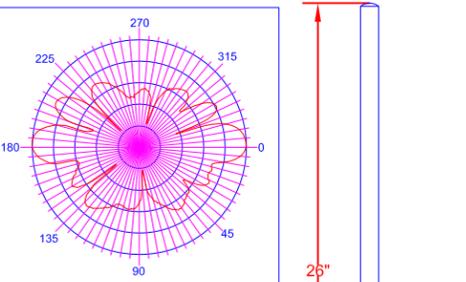
- RUGGED, FIBERGLASS RADOME
- FREQUENCY COVERAGE FOR ENTIRE AWS BAND

MODEL AWS360-1710-7-T0-N

ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE	1710-2155MHz
VSWR	1.7:1 VSWR MAX
FORWARD GAIN	7 dBi
POLARIZATION	VERTICAL
MAXIMUM POWER INPUT	200 WATTS
INPUT IMPEDANCE	50 ohms
VERTICAL -3dB BEAMWIDTH	16" +/- (NOMINAL)
HORIZONTAL -3dB BEAMWIDTH	360°
AZIMUTH RIPPLE	+/- .5 dB
ELECTRICAL DOWNTILT	2 AND 4" (T2 AND T4 FOR PART NUMBER)

PHAZAR OMNI ANTENNA



MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

CONNECTOR	TYPE 'N' MALE OR 716 DIN
MOUNTING	SIDE MOUNT; CLAMPS PROVIDED
DIMENSION AND WEIGHT	26 INCHES X 2.0 INCH O.D. / < 10 lbs.
COLOR	WHITE STANDARD (COLOR OPTIONS AVAILABLE)
WIND SURVIVAL	120 MPH
LIGHTNING PROTECTION	DIRECT GROUND

6 SCALE N.T.S.

COASTAL COMMUNICATIONS
3355 Mission Ave Ste. 234
Oceanside, Ca 92058
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PROJECT MANAGER	POWER MANAGER
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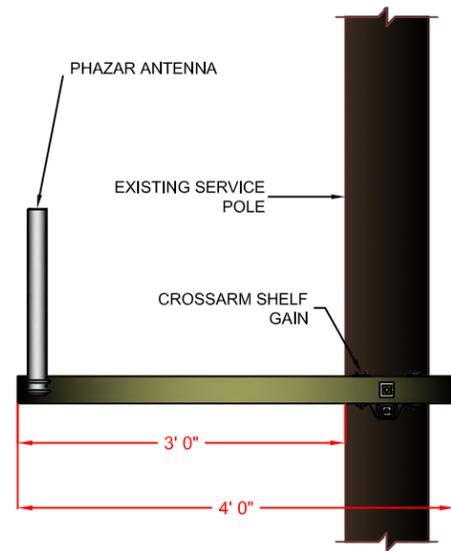
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DESIGN TYPE: NODE DESIGN	PHASE: 6
T.B.G. MAP NO.: 919-F3	
TOTAL TRENCH FOOTAGE: NA	
ENGINEERED BY: CCI	DATE: 03/26/12
DRAFTED BY: ARVIN SEGISMAR	REVISED DATE: 07/16/12
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LOCATION: PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HIGHWAY CITY OF NEW PORT BEACH, CA	
PLAN No.:	SHEET 4 OF 7

DETAIL SHEET

**CROSSARM SHELF GAIN
WITH PHAZAR ANTENNA
(ASSEMBLY DETAIL)**



7	SCALE
	N.T.S.



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PROJECT TEAM

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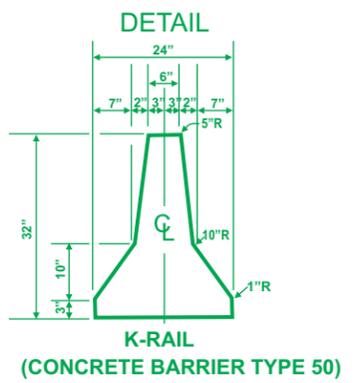
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DETAIL SHEET		LOCATION: PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HIGHWAY CITY OF NEW PORT BEACH, CA
		PLAN No.: SHEET 5 OF 7

SIGNS

	C9A(CA)		R3-4		W3-4
	C30(CA)		R3-18		W4-2(RT)
	C30A(CA)		R4-7a		W11-1
	C30(BIKE)		R9-3A		W13-1
	C12(CA)		R5-1		W16-1
	C21		R5-1A		W20-1
	C24(CA)		R9-9		W20-2
	C27(CA)		R9-11		W20-4
	G20-2		R9-11a		W20-5(BIKE)
	M4-10		R9-10		W20-5(LT)
	SC 3		R11-2		W20-5(RT)
	R3-1		R11-4		W21-5
	R3-2		W1-3(LT)		
			W1-4(LT)		
			W1-4(RT)		



SIGNAGE NOTES

- AT LEAST ONE PERSON SHALL BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON ALL NIGHT LANE CLOSURES.
- ALL WARNING SIGNS FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED OR REFLECTORIZED AS SPECIFIED IN THE SPECIFICATIONS.
- ALL ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES OF ALL MAJOR AND PRIME ARTERIALS. FLASHING BEACONS SHALL BE USED DURING NIGHT LANE CLOSURES.
- A G20-2 "END ROAD WORK" SIGN SHALL BE PLACED AT THE END OF THE LANE CLOSURE UNLESS THE END OF THE WORK AREA IS OBVIOUS, OR ENDS WITHIN A LARGER PROJECT LIMITS.
- ALL CONES USED FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED TRAFFIC CONES OR FITTED WITH 13" REFLECTIVE SLEEVES.
- FLASHING ARROW SIGNS SHALL BE USED PER FHWA MUTCD 2007 EDITION AS AMENDED BY THE MUTCD 2007 CALIFORNIA SUPPLEMENT. SILENT TYPE SHALL BE USED IN RESIDENTIAL AREAS.
- THE MAXIMUM SPACING BETWEEN CONES IN A TAPER OR A TANGENT SHALL BE APPROXIMATELY AS SHOWN IN TABLE 1.
- ADDITIONAL ADVANCE FLAGGERS SHALL BE REQUIRED WHEN TRAFFIC QUEUES DEVELOP. FLAGGER STATIONS FOR WORK AT NIGHT SHALL BE ILLUMINATED AS NOTED IN SECTION 6G.20 OF THE MUTCD.
- PLACE C30 (CA) "LANE CLOSED" SIGN AT 500'-1000' INTERVALS THROUGHOUT EXTENDED WORK AREAS.
- ALL REQUIRED SIGNS THAT ARE TO BE LEFT IN PLACE OVER A WEEKEND OR HOLIDAY SHALL BE POSTED MOUNTED.
- CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL MEET THE PROVISIONS OF SECTION 12 OF THE MOST RECENT EDITION OF THE CALTRANS STANDARD SPECIFICATIONS.

TRAFFIC CONTROL NOTES

- WORK TO BE RESTRICTED TO _____ TO _____ UNLESS APPROVED OTHERWISE.
- PEDESTRIAN CONTROLS WILL BE PROVIDED AS SHOWN.
- PEDESTRIANS SHALL BE PROTECTED FROM ENTERING THE EXCAVATION BY PHYSICAL BARRIERS DESIGNED, INSTALLED, AND MAINTAINED TO THE SATISFACTION OF THE CITY ENGINEER.
- TEMPORARY "NO PARKING/TOW AWAY" SIGNS STATING THE DATE AND TIME OF PROHIBITION WILL BE POSTED 72 HOURS PRIOR TO COMMENCING WORK. CALL POLICE DISPATCH TO VALIDATE POSTING.
- ACCESS WILL BE MAINTAINED TO ALL DRIVEWAYS UNLESS OTHER ARRANGEMENTS ARE MADE.
- TRENCHES MUST BE BACKFILLED OR PLATED DURING NON-WORKING HOURS UNLESS K-RAIL BARRIERS ARE PROVIDED. K-RAIL IS APPROVED ONLY WHEN SPECIFICALLY SHOWN ON THE APPROVED TRAFFIC CONTROL PLAN. PLATES SHALL HAVE CLEATS AND COLD MIX AT THE EDGES AS APPROVED BY THE CITY INSPECTOR.
- STRIPING WILL BE REPLACED BY THE CONTRACTOR WITHIN 24 HOURS, IF REMOVED OR DAMAGED.
- WORK THAT DISTURBS NORMAL TRAFFIC SIGNAL TIMING OPERATIONS SHALL BE COORDINATED WITH CITY OF NEWPORT BEACH.
- TRAFFIC SIGNALS SHALL REMAIN FULLY ACTUATED AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER OR HIS REPRESENTATIVE. IF TRAFFIC SIGNAL LOOP DETECTORS ARE RENDERED INOPERATIVE BY THE PROPOSED WORK, VIDEO DETECTION SHALL BE USED TO PROVIDE ACTUATION.
- FLAGGERS SHALL BE EQUIPPED WITH A WHITE HARD HAT, AN ORANGE VEST, AND A "STOP/SLOW" PADDLE ON A 5 FOOT STAFF.
- ALL TRAFFIC CONTROL DEVICES MUST BE MAINTAINED 24 HOURS A DAY, 7 DAYS PER WEEK, BY THE COORDINATOR.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH MANUAL) 2009 ELEVENTH EDITION OF THE AMERICAN PUBLIC WORKS ASSOCIATION SOUTHERN CALIFORNIA CHAPTER.
- TRAFFIC CONTROL PLAN SUBMITTALS ARE REQUIRED FOR EACH PHASE OF THE WORK IN THE DETAIL, FORMAT, AND QUALITY ILLUSTRATED ON THIS SHEET.
- ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM VIEW OR COVERED WHEN NOT IN USE.
- THE CITY ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO INSURE PUBLIC SAFETY.
- ALL WORK AFFECTING BUS STOPS SHALL BE COORDINATED WITH LOCAL TRANSIT DISTRICT. CONTRACTOR SHALL CALL TRANSIT AT LEAST 72 HOURS IN ADVANCE OF STARTING WORK.
- CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF TRAFFIC CONTROL ON MAJOR AND PRIME ARTERIALS, UNLESS OTHERWISE APPROVED. THESE SIGNS SHALL BE SHOWN ON THE TRAFFIC CONTROL PLAN.

MINIMUM RECOMMENDED CHANNELIZER AND SIGN SPACING ⁽¹⁾

SPEED "S" MPH ⁽²⁾	DIMENSION A SIGN SPACING		DIMENSION B MINIMUM MERGING TAPER L		DIMENSION C MINIMUM SHIFTING TAPER 1/2 L		DIMENSION D MINIMUM SHOULDER TAPER 1/3 L		DIMENSION E BUFFER SPACE ⁽⁴⁾		MAXIMUM CHANNELIZER SPACING TAPER ⁽³⁾		MAXIMUM CHANNELIZER SPACING TANGENT ⁽³⁾	
	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)
25	125	(40)	125	(40)	63	(20)	42	(13)	158	(48)	25	(8)	50	(15)
30	180	(60)	180	(60)	90	(30)	60	(20)	205	(62)	30	(9)	60	(18)
35	245	(75)	245	(75)	123	(35)	82	(25)	257	(80)	35	(11)	70	(22)
40	320	(100)	320	(100)	160	(50)	107	(35)	315	(100)	40	(13)	80	(25)
45	540	(165)	540	(165)	270	(80)	180	(55)	378	(115)	48	(15)	98	(30)
50	600	(180)	600	(180)	300	(90)	200	(60)	446	(130)	48	(15)	98	(30)
55	660	(200)	660	(200)	330	(100)	220	(65)	520	(165)	48	(15)	98	(30)
60	720	(220)	720	(220)	360	(110)	240	(75)	596	(180)	48	(15)	98	(30)
65	780	(240)	780	(240)	390	(120)	260	(80)	682	(210)	48	(15)	98	(30)
Local Agency Freeways	1000	(300)	1000	(300)	500	(150)	330	(100)	1000	(300)	48	(15)	98	(30)
Pedestrians	N/A	N/A	20	(6)	15	(3)	6	(2)	N/A	N/A	3	(1)	6	(2)
Bicyclists	Use Roadway Sign Spacing		75	(25)	38	(12)	25	(8)	N/A	N/A	12	(4)	25	(8)

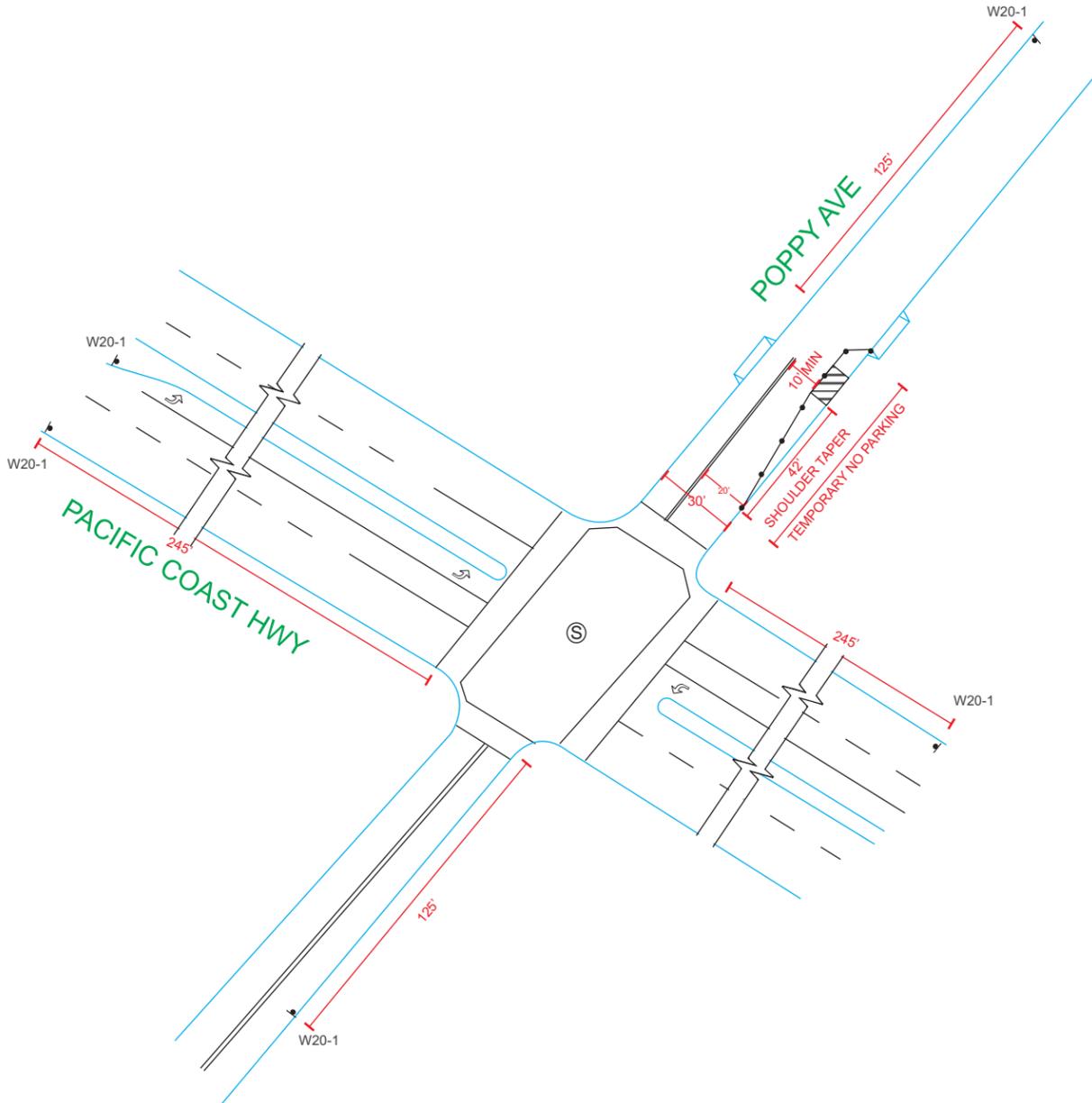
- Refer to specific State requirements for work on State Freeways and State Highways.
- Posted Speed or observed operating speed (whichever is greater).
- Channelizer spacing shall be reduced in half at areas where work is taking place, on curves, or areas on head-on conflict.
- Buffer space may be inserted in low speed urban areas, should be inserted in high speed urban and rural areas, and shall be inserted in Local Agency Freeways. Buffer space, when inserted, should be increased on down grades and should be kept clear of equipment and materials, except for a Shadow Vehicle.

LEGEND

	DIRECTION OF TRAVEL		PORTABLE FLASHING BEACON (SEE SIGNAGE NOTE #3)
	PORTABLE SIGN		K-RAIL (TYPE 50 CONCRETE BARRIER)
	TRAFFIC CONE/DELINEATOR		CHANGEABLE MESSAGE SIGN
	TYPE II BARRICADE		FLASHING ARROW SIGN
	FLAGGER		WORK AREA
	FLAG TREE		

	TRAFFIC CONTROL PLANS FOR:											
	MPC1032CA-SOC06m1 PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HWY CITY OF NEWPORT BEACH, CA											
CITY OF NEWPORT BEACH, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT												
DRAWN BY: COASTAL COMMUNICATIONS, INC. 3355 MISSION AVE, SUITE 234 OCEANSIDE, CA 92058		TELE: (760) 754-9240 FAX: (760) 754-9299										
FOR CITY ENGINEER _____ DATE _____	DRAFTED BY: RUDY RINCÓN T.B. PAGE: 919-F3 DATE: 7/20/2012											
<table border="1"> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FILMED</th> </tr> <tr> <td>ORIGINAL</td> <td>CCI</td> <td></td> <td></td> <td></td> </tr> </table>	DESCRIPTION	BY	APPROVED	DATE	FILMED	ORIGINAL	CCI				GENE MITCHELL CONSTRUCTION SUPERVISOR	
DESCRIPTION	BY	APPROVED	DATE	FILMED								
ORIGINAL	CCI											
AS-BUILTS _____	MPC1032CA-SOC06m1 408 POPPY AVE FILE NAME											
CONTRACTOR _____ DATE STARTED _____ INSPECTOR _____ DATE COMPLETED _____	6 OF 7											

NOTE: W20-1 & G20-2 SHALL BE PLACED ON AFFECTED CROSS STREETS ACCORDING TO THE SPEED LIMIT OF THE CROSS STREET



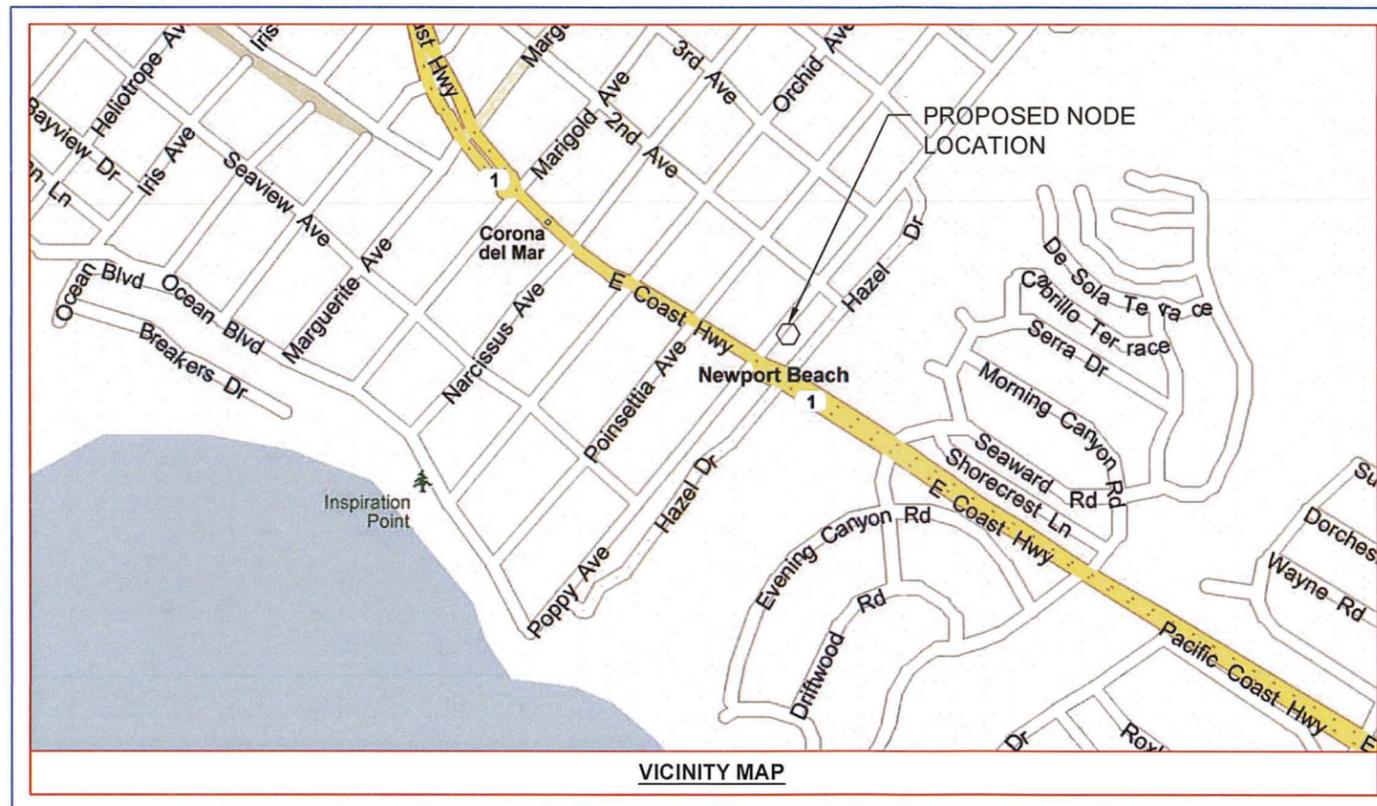
	TRAFFIC CONTROL PLANS FOR: MPC1032CA-SOC06m1 PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HWY CITY OF NEWPORT BEACH, CA		
	CITY OF NEWPORT BEACH, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT		
DRAWN BY: COASTAL COMMUNICATIONS, INC. 3355 MISSION AVE, SUITE 234 OCEANSIDE, CA 92058		TELE: (760) 754-9240 FAX: (760) 754-9299	DRAFTED BY: <u>RUDY RINCON</u> T.B. PAGE: <u>919-F3</u> DATE: <u>7/20/2012</u>
FOR CITY ENGINEER _____ DATE _____	GENE MITCHELL CONSTRUCTION SUPERVISOR MPC1032CA-SOC06m1 408 POPPY AVE FILE NAME _____		
CONTRACTOR _____ DATE STARTED _____ INSPECTOR _____ DATE COMPLETED _____	<u>7</u> OF <u>7</u>		

Attachment No. CD 4

Project Plans

MPC1032CA-SOC06m1

POLE #1411062E
PUBLIC ROW ADJACENT TO
AND WEST OF 3800 E. COAST HIGHWAY
CITY OF NEW PORT BEACH, CA



- GENERAL NOTES**
- INDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES. THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNITY AND HOLD REPRESENTATIVES, AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT
 - PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, THE CONTRACTOR SHALL FULLY COMPLY WITH "CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH" ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO
 - ALL WORK SHALL CONFORM TO THE LATEST EDITION OF GO 95.128, AND THE STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", AS ADOPTED BY THE CITY, COUNTY, OR STATE AS MODIFIED BY STANDARDS PLANS AND ADDENDUMS.
 - THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCIES FACILITIES AS SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OR WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
 - THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2800, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCAVATION.
 - THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY, OR STATE ENGINEER INSPECTION DEPARTMENT, AT LEAST TWO DAYS BEFORE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
 - ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WORK AREA TRAFFIC CONTROL HANDBOOK AND SPECIFICATIONS FROM THE CITY, COUNTY OR STATE.
 - THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THE FINISHED GRADE AT ALL TIMES.
 - THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 24 INCHES TO THE FINISHED GRADE AT ALL TIMES.
 - THE CONTRACTOR SHALL TUNNEL ALL CURB AND GUTTERS AND BORE ALL CONCRETE DRIVEWAYS AND WALKWAYS AT THE DIRECTION OF THE CITY, COUNTY, OR STATE INSPECTOR.
 - ALL AC, AND / OR CONCRETE PAVEMENT SHALL BE REPLACED AT THE DIRECTION OF THE CITY, COUNTY, OR STATE ENGINEERS.
 - ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND / OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
 - IF DAMAGE OCCURS TO THE CITY OR COUNTY FACILITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY TRAFFIC CONTROL LIGHTING, AND STREET LIGHTING.
 - AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK, NOTIFY THE POLICE TRAFFIC BUREAU AND THE FIRE DEPARTMENT.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROCESSING OF ALL APPLICATION PERMIT FORMS ALONG WITH THE REQUIRED LIABILITY INSURANCE FORMS, CLEARLY DEMONSTRATING THAT THE CITY, COUNTY OR STATE IS ALSO INSURED WITH THE REQUIRED LIABILITY INSURANCE IN THE AMOUNT OF \$1,000,000 FOR THIS CONSTRUCTION PROJECT.
 - VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER. ANY AND ALL DEVIATIONS FROM THE SPECIFIED TYPES OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER IN WRITING BEFORE INSTALLATION THEREOF.
 - ALL U.G. CONDUIT MUST BE SCHEDULE 40 OR BETTER.
 - CONDUIT REQUIREMENTS:
UG-SCHEDULE 40 EXCEPT ALL RADIUS CONDUITS TO BE SCH. 80 RISERS-SCHEDULE 80
ALL CONDUIT MANDRELED & EQUIPPED WITH 3/8" PULL ROPE & MEASURING TAPE
 - GROUND REQUIREMENTS:
5/8" ROD-10' LENGTH
#2 GROUND WIRE
WOOD MOLDING, STAPLED EVERY 3' AND AT EACH END GROUNDS 2' FROM POLE
 - POWER REQUIREMENT FOR 3 WIRE SERVICE 120/240V
 - CONTRACTOR SHALL NOTIFY POWER COMPANY THREE DAYS PRIOR TO TRENCH EXCAVATION FOR CONDUIT INSPECTION.

DIGALERT
1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
TICKET # _____

SHEET INDEX:

TITLE SHEET	SHEET 1 OF 6
SITE PLAN	SHEET 2 OF 6
POLE PROFILE	SHEET 3 OF 6
DETAIL SHEET	SHEET 4 OF 6
TRAFFIC CONTROL COVER SHEET	SHEET 5 OF 6
TRAFFIC CONTROL	SHEET 6 OF 6

CROWN CASTLE NG WEST LLC

300 Spectrum Center Drive, Suite 1200
Irvine, CA 926184
www.crowncastle.com

REV	DATE	DESCRIPTION	BY

Coastal Communications
Telecommunications Engineering
5841 EDISON PLACE, STE. 110
CARLSBAD, CA 92008
PH: (760) 929-0910
FX: (760) 929-0936

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

1. CALIFORNIA ADMINISTRATIVE CODE (INCL TITLES 24 & 25)	5. ANSI/DIA-222-F LIFE SAFETY CODE NEPA-101
2. 2010 CALIFORNIA BUILDING CODE WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.	6. UNIFORM PLUMBING CODE
3. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)	7. NATIONAL ELECTRIC CODE
4. UNIFORM MECHANICAL CODE	8. LOCAL BUILDING CODE
	9. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

GENERAL CONTRACTOR NOTES

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PROJECT SUMMARY

CROWN CASTLE TO INSTALL THE FOLLOWING:

- SMALL CELL ANTENNA AND ITS ANCILLARY EQUIPMENT ON UTILITY POLE.

PROJECT MANAGER

NAME: NEXTG NETWORKS
ADDRESS: 2125 WRIGHT AVE STE C9
CITY, STATE, ZIP: LA VERNE, CA 91750
CONTACT: GENE MITCHELL
PHONE: (909) 593-9700
EMAIL: GMITCHELL@NEXTGNETWORKS.NET

PROJECT MANAGER

NAME: HP COMMUNICATIONS INC.
ADDRESS: 13341 TEMESCAL CANYON RD
CITY, STATE, ZIP: CORONA, CA 92883
CONTACT: JORGE BECERRA
PHONE: (951) 572-1252
EMAIL: JORGE.BECERRA@HPCOMMINC.COM

POWER MANAGER

NAME: NEXTG NETWORKS
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PHONE: (909) 593-9700
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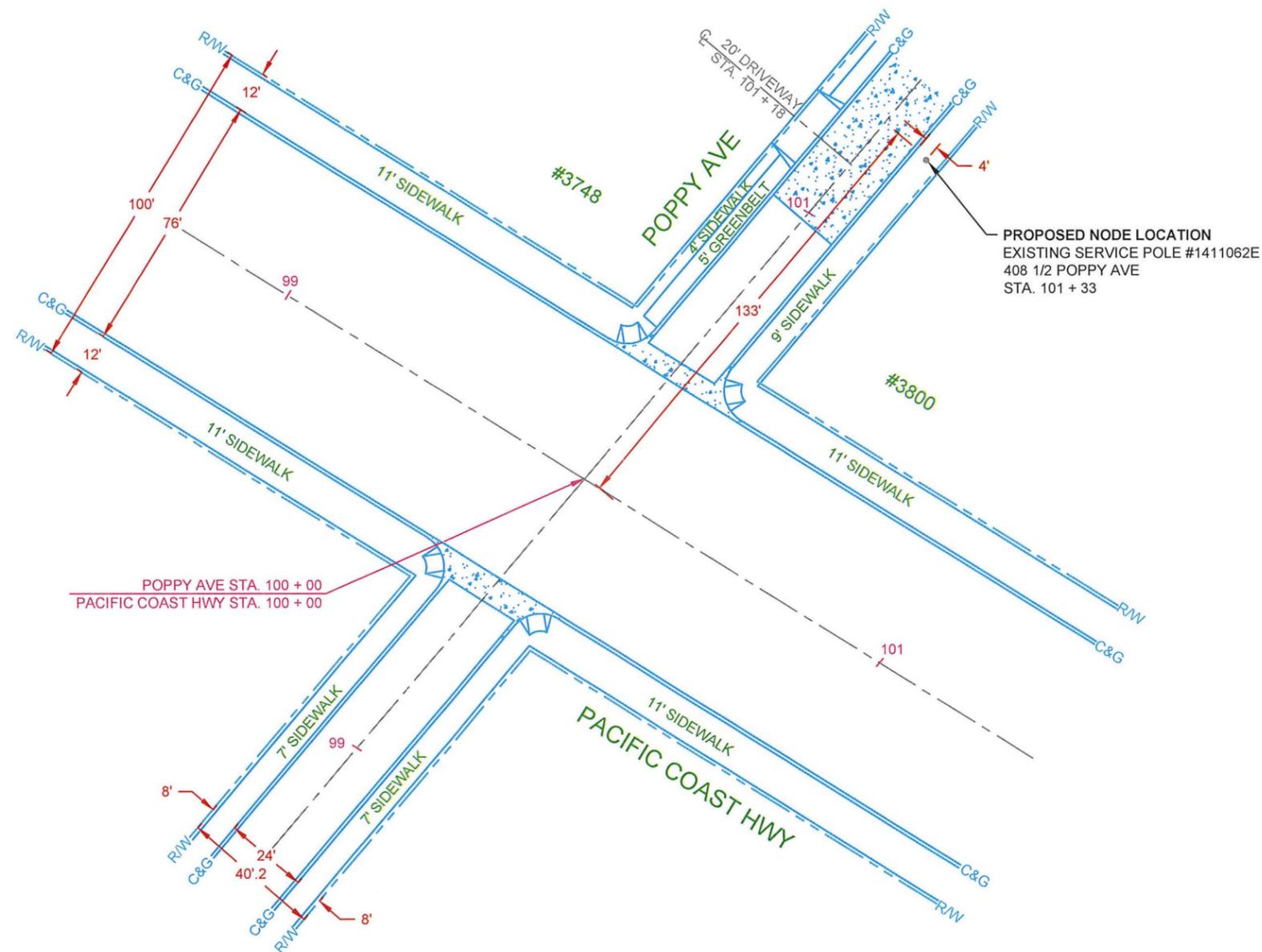
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NAME: COASTAL COMMUNICATIONS
ADDRESS: 3355 MISSION AVE STE. 234
CITY, STATE, ZIP: OCEANSIDE, CA 92058
CONTACT: TODD THREW
PHONE: (760) 754-9240 ext. 101
EMAIL: TODD@COASTALCOMMING.COM

DESIGN TYPE: NODE DESIGN PHASE: 6
T.B.G. MAP NO.: 919-F3
TOTAL TRENCH FOOTAGE: NA
ENGINEERED BY: CCI DATE: 03/26/12
DRAFTED BY: ARVIN SEGISMAR REVISED DATE: 07/16/12
ELECTRONIC FILE NAME: MPC1032CA-SOC06m1

TITLE SHEET

LATITUDE:	33.594028
LONGITUDE:	-117.866586
HEADEND:	SOUTH ORANGE COUNTY
BASE STATION ID:	NA
CASCADE ID:	NA
SITE NO.:	MPC1032CA-SOC06m1
LOCATION:	PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HIGHWAY CITY OF NEW PORT BEACH, CA
PLAN No.:	SHEET 1 OF 6



EQUIPMENT LEGEND

- ⊙ = SERVICE POLE
- RW = RIGHT OF WAY
- CL = CENTERLINE
- C&G = CURB & GUTTER

NORTH

SCALE 1" = 40'



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CONTACT: TODD THREW
PHONE: (760) 754-9240 ext. 101
EMAIL: TODD@COASTALCOMMINC.COM

DESIGN TYPE: NODE DESIGN PHASE: 6

T.B.G. MAP NO.: 919-F3

TOTAL TRENCH FOOTAGE: NA

ENGINEERED BY: CCI DATE: 03/26/12

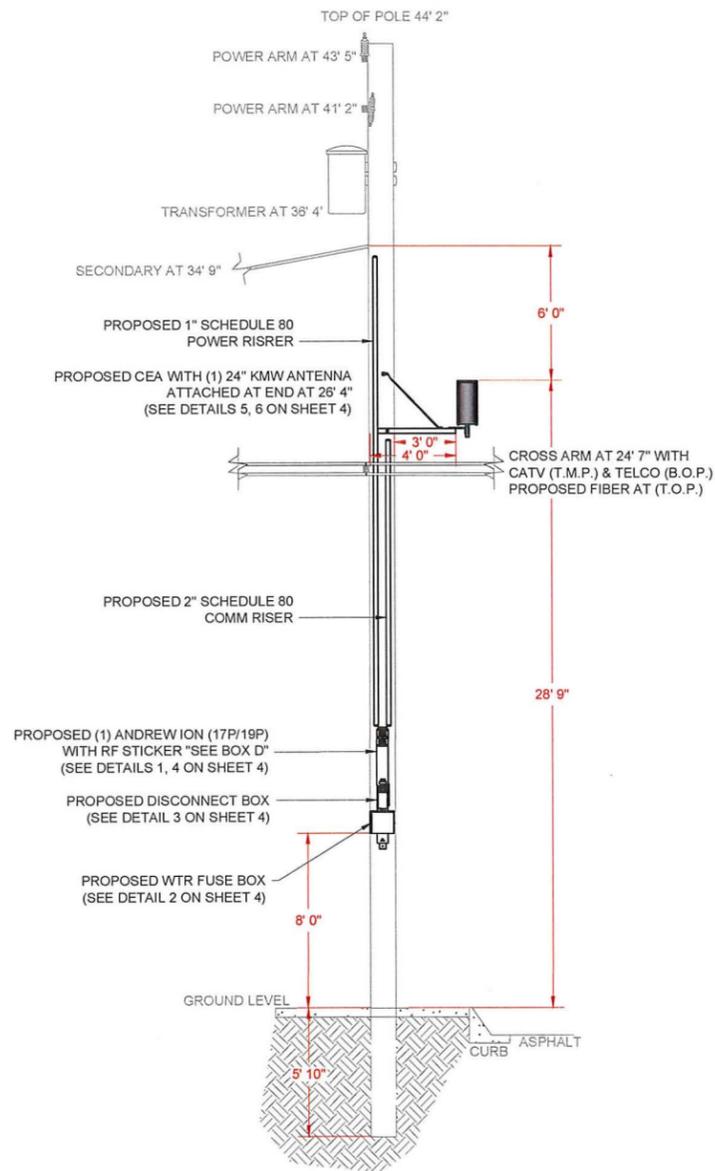
DRAFTED BY: ARVIN SEGISMAR REVISED DATE: 07/16/12

ELECTRONIC FILE NAME: MPC1032CA-SOC06m1

SITE PLAN

LATITUDE:	33.594028
LONGITUDE:	-117.866586
HEADEND:	SOUTH ORANGE COUNTY
BASE STATION ID:	NA
CASCADE ID:	NA
SITE NO.:	MPC1032CA-SOC06m1
LOCATION:	PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HIGHWAY CITY OF NEW PORT BEACH, CA
PLAN No.:	SHEET 2 OF 6

EQUIPMENT TO BE PAINTED TO BLEND WITH UNDERLYING WOOD POLE.



A POLE #1411062E **3 O'CLOCK VIEW** SCALE N.T.S.



B DIGITAL PHOTO **1 O'CLOCK VIEW** SCALE N.T.S.

MAKE READY

UTILITY STEP POLE

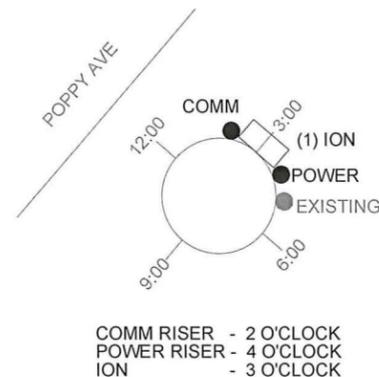
NEW CONSTRUCTION

- CROWN CASTLE TO MOUNT WTR FUSE BOX, DISCONNECT BOX AND (1) ANDREW ION (WITH RF STICKER) AT 8' 0" ABOVE GROUND LEVEL.
- PROPOSED CEA WITH (1) 24" KMW ANTENNA ATTACHED AT END AT 26' 4".
- PROPOSED FIBER ON EXISTING CEA AT 24' 7". PLACE FIBER T.O.P. OF ARM.
- PROPOSED DISCONNECT BOX.
- PROPOSED WTR FUSE BOX.
- PROPOSED 1" SCHEDULE 80 POWER RISER (BEHIND POLE)
- PROPOSED 2" SCHEDULE 80 COMM RISER.
- EQUIPMENT TO BE PAINTED TO BLEND WITH UNDERLYING WOOD POLE.

NOTES:

TOP OF POLE: 44' 2"
TOP OF ANTENNA: 28' 9"
ANTENNA TYPE: KMW

"CONSTRUCTION NOTE: ANTENNA, ION, AND WTR TO BE MOUNTED ON UTILITY POLE. NO METER PEDESTALS INSTALLED."



INFORMATION

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 THIS SITE DOES NOT EXCEED THE FCC PUBLIC EXPOSURE STANDARD AND THUS HAS BEEN DETERMINED TO BE SAFE FOR THE GENERAL POPULATION.

Reference: Federal Communications Commission (FCC) Public Exposure Standard, OET Bulletin 65, Edition 1.0-1, August 1997.

C RISER DETAIL

D RF STICKER

SCALE N.T.S.



1-800-227-2600
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UNDERGROUND SERVICE ALERT
TICKET # _____

SERVICE EQUIPMENT POLE PROFILE



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PROJECT TEAM

POWER MANAGER

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DESIGN TYPE: NODE DESIGN PHASE: 6

T.B.G. MAP NO.: 919-F3

TOTAL TRENCH FOOTAGE: NA

ENGINEERED BY: CCI DATE: 03/26/12

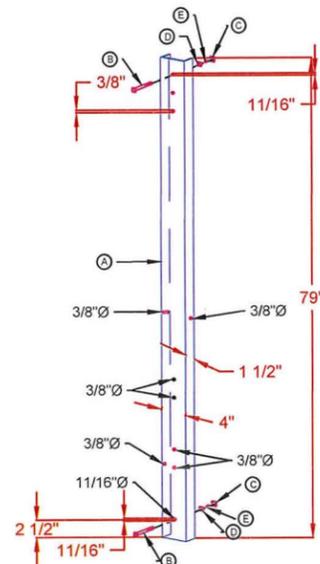
DRAFTED BY: ARVIN SEGISMAR REVISED DATE: 07/16/12

ELECTRONIC FILE NAME: MPC1032CA-SOC06m1

POLE PROFILE

LATITUDE:	33.594028
LONGITUDE:	-117.866586
HEADEND:	SOUTH ORANGE COUNTY
BASE STATION ID:	NA
CASCADE ID:	NA
SITE NO.:	MPC1032CA-SOC06m1
LOCATION:	PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HIGHWAY CITY OF NEW PORT BEACH, CA
PLAN No.:	SHEET 3 OF 6

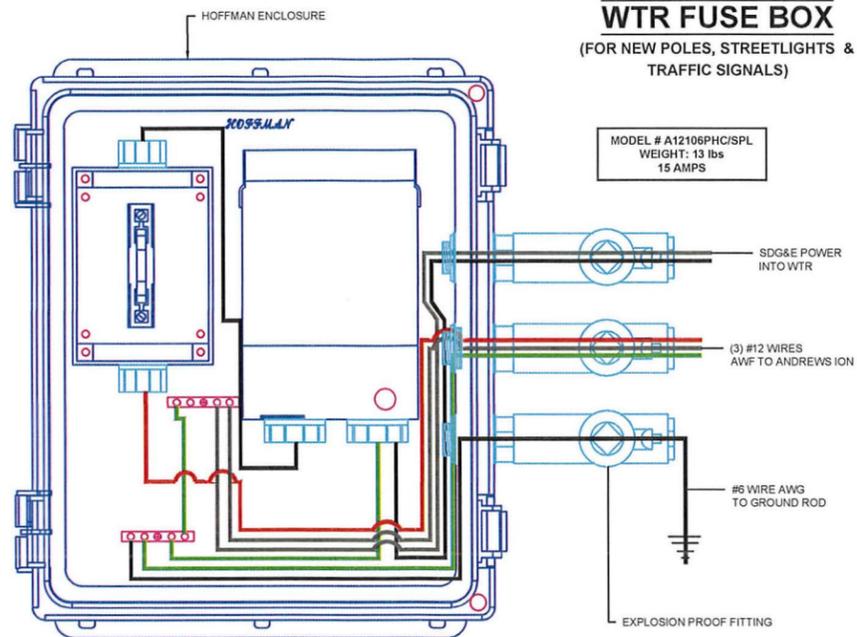
POLE MOUNTING BACK PLATE



CALL OUT	QTY	DESCRIPTION
A	1	MOUNTING PLATE 79" L X 4" W X 1.5D" D
B	2	MACHINE BOLT 16" X 5/8"
C	2	SQUARE NUT 5/8"
D	2	FLAT SQUARE WASHER 41/2" X 41/2"
E	2	DOUBLE COIL SPRING WASHER

1 SCALE N.T.S.

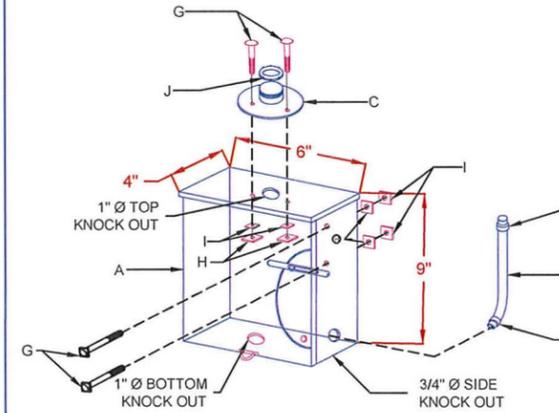
WTR FUSE BOX
(FOR NEW POLES, STREETLIGHTS & TRAFFIC SIGNALS)



MODEL # A12106PHC/SPL
WEIGHT: 13 lbs
15 AMPS

2 SCALE N.T.S.

DISCONNECT BOX



- 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

CALL OUT	QTY	DESCRIPTION
A	1	CABINET WATER PART
B	1	BREAKER AMP KAIC 2 POLE 120/140 VAC SINGLE PHASE
C	1	1" CLOS 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
I	4	5/16" NUT - STAINLESS STEEL
J	1	1" LOCK NUT

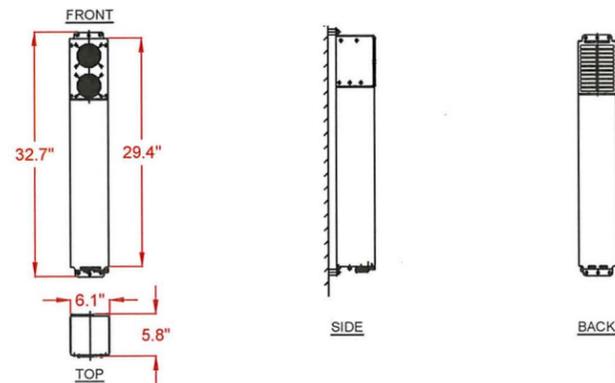
3 SCALE N.T.S.

ANDREW ION-M17P/M19P
SINGLE / DUALBAND OPTICAL SYSTEM

MECHANICAL SPECIFICATIONS*

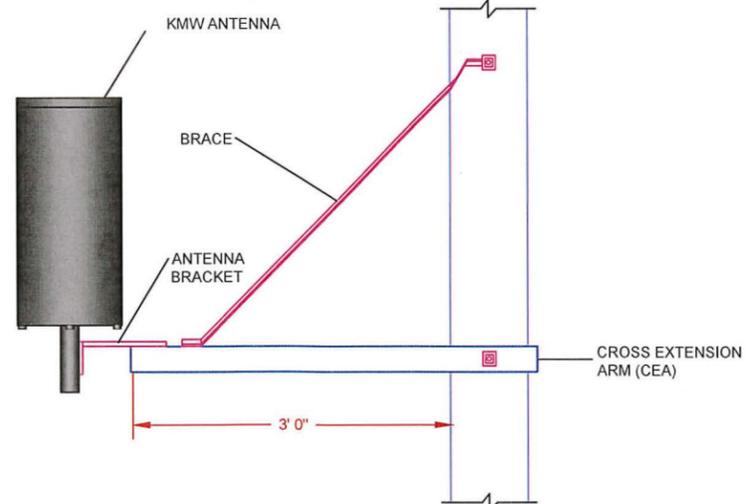
HEIGHT	831 mm (32.7")
WIDTH	156 mm (6.1")
DEPTH	147 mm (5.8")
WEIGHT	APPROX. 20 kg (40 lbs)
MOUNTING	SPACING REQUIRED: 40 mm (2.0" AROUND UNIT. DO NOT BLOCK AIR INLET AND OUTLET. VERTICAL MOUNTING COMPULSORY.

*WITHOUT CONNECTORS



4 SCALE N.T.S.

CEA WITH KMW ANTENNA
(ASSEMBLY DETAIL)



5 SCALE N.T.S.

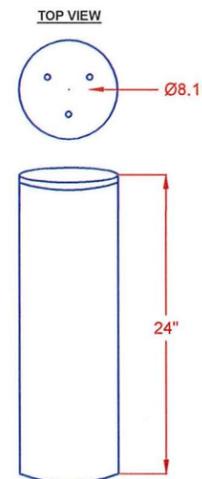
KMW ANTENNA
MODEL #DA-X-AW-13-65-02T3
(1710 ~ 2180MHz, X-pol., H65° / V16°)

ELECTRICAL SPECIFICATIONS

PARAMETER	VALUE
Frequency Range	1710 - 2170 MHz
Gain	13.5 dBi x 3 sectors
Omni Gain	8.8dBi
Beamwidth	Horizontal 65°
	Vertical 16.0°
VSWR	≤ 1.4:1
Polarization	Dual, Slant ±45°
Impedance	50Ω
Fixed Electrical Downtilt	2°
Horizontal Beam Steering	N/A
Upper 1st Sidelobe Suppression	≥ 18 dB
Front-to-Back Ratio	≥ 25 dB
Passive Intermodulation, IM3	≤ -150 dBc (@43dBm, 2tones)
Input Maximum CW Power	200W

MECHANICAL SPECIFICATIONS

Parameter	Value
Dimension (Dia. x H)	8.11 x 24 inches
Weight	30 lbs (Without Mount Adapter)
Connector	2 x 7/16 DIN(F) / Bottom 1 x SMA(F) / Bottom
Max Wind Speed	150 mph



6 SCALE N.T.S.



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

1. CALIFORNIA ADMINISTRATIVE CODE (INCL TITLES 24 & 25)	5. ANSI/DIA-222-F LIFE SAFETY CODE NEPA-101
2. 2010 CALIFORNIA BUILDING CODE WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.	6. UNIFORM PLUMBING CODE
3. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)	7. NATIONAL ELECTRIC CODE
4. UNIFORM MECHANICAL CODE	8. LOCAL BUILDING CODE
	9. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

GENERAL CONTRACTOR NOTES

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 BE RESPONSIBLE FOR SAME.

PROJECT SUMMARY

CROWN CASTLE TO INSTALL THE FOLLOWING:

- SMALL CELL ANTENNA AND IT'S ANCILLARY EQUIPMENT ON UTILITY POLE.

PROJECT MANAGER

NAME: NEXTG NETWORKS
ADDRESS: 2125 WRIGHT AVE STE C9
CITY, STATE, ZIP: LA VERNE, CA 91750
CONTACT: GENE MITCHELL
PHONE: (909) 593-9700
EMAIL: GMITCHELL@NEXTGNETWORKS.NET

PROJECT MANAGER

NAME: HP COMMUNICATIONS INC.
ADDRESS: 13341 TEMESCAL CANYON RD
CITY, STATE, ZIP: CORONA, CA 92883
CONTACT: JORGE BECERRA
PHONE: (951) 572-1252
EMAIL: JORGE.BECERRA@HPCOMMINC.COM

POWER MANAGER

NAME: NEXTG NETWORKS
ADDRESS: 2125 WRIGHT AVE STE C9
CITY, STATE, ZIP: LA VERNE, CA 91750
CONTACT: JOE ARNOLD
PHONE: (909) 593-9700
EMAIL: JARNOLD@NEXTGNETWORKS.NET

NODE ENGINEER

NAME: COASTAL COMMUNICATIONS
ADDRESS: 3355 MISSION AVE STE. 234
CITY, STATE, ZIP: OCEANSIDE, CA 92058
CONTACT: TODD THREW
PHONE: (760) 754-9240 ext. 101
EMAIL: TODD@COASTALCOMMINC.COM

DESIGN TYPE: NODE DESIGN PHASE: 6

T.B.G. MAP NO.: 919-F3

TOTAL TRENCH FOOTAGE: NA

ENGINEERED BY: CCI DATE: 03/26/12

DRAFTED BY: ARVIN SEGISMAR REVISED DATE: 07/16/12

ELECTRONIC FILE NAME: MPC1032CA-SOC06m1

LATITUDE: 33.594028

LONGITUDE: -117.866586

HEADEND: SOUTH ORANGE COUNTY

BASE STATION ID: NA

CASCADE ID: NA

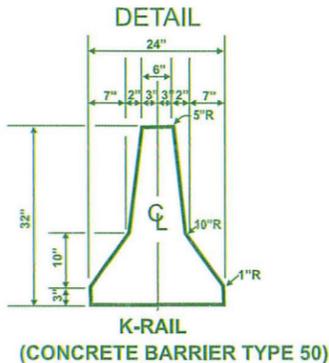
SITE NO.: MPC1032CA-SOC06m1

LOCATION: PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HIGHWAY CITY OF NEW PORT BEACH, CA

PLAN No.: SHEET 4 OF 6

DETAIL SHEET

SIGNS



- ### SIGNAGE NOTES
- AT LEAST ONE PERSON SHALL BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON ALL NIGHT LANE CLOSURES.
 - ALL WARNING SIGNS FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED OR REFLECTORIZED AS SPECIFIED IN THE SPECIFICATIONS.
 - ALL ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES OF ALL MAJOR AND PRIME ARTERIALS. FLASHING BEACONS SHALL BE USED DURING NIGHT LANE CLOSURES.
 - A G20-2 "END ROAD WORK" SIGN SHALL BE PLACED AT THE END OF THE LANE CLOSURE UNLESS THE END OF THE WORK AREA IS OBVIOUS, OR ENDS WITHIN A LARGER PROJECT LIMITS.
 - ALL CONES USED FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED TRAFFIC CONES OR FITTED WITH 13" REFLECTIVE SLEEVES.
 - FLASHING ARROW SIGNS SHALL BE USED PER FHWA MUTCD 2007 EDITION AS AMENDED BY THE MUTCD 2007 CALIFORNIA SUPPLEMENT. SILENT TYPE SHALL BE USED IN RESIDENTIAL AREAS.
 - THE MAXIMUM SPACING BETWEEN CONES IN A TAPER OR A TANGENT SHALL BE APPROXIMATELY AS SHOWN IN TABLE 1.
 - ADDITIONAL ADVANCE FLAGGERS SHALL BE REQUIRED WHEN TRAFFIC QUEUES DEVELOP. FLAGGER STATIONS FOR WORK AT NIGHT SHALL BE ILLUMINATED AS NOTED IN SECTION 6G.20 OF THE MUTCD.
 - PLACE C30 (CA) "LANE CLOSED" SIGN AT 500'-1000' INTERVALS THROUGHOUT EXTENDED WORK AREAS.
 - ALL REQUIRED SIGNS THAT ARE TO BE LEFT IN PLACE OVER A WEEKEND OR HOLIDAY SHALL BE POSTED MOUNTED.
 - CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL MEET THE PROVISIONS OF SECTION 12 OF THE MOST RECENT EDITION OF THE CALTRANS STANDARD SPECIFICATIONS.

- ### TRAFFIC CONTROL NOTES
- WORK TO BE RESTRICTED TO _____ TO _____ UNLESS APPROVED OTHERWISE.
 - PEDESTRIAN CONTROLS WILL BE PROVIDED AS SHOWN.
 - PEDESTRIANS SHALL BE PROTECTED FROM ENTERING THE EXCAVATION BY PHYSICAL BARRIERS DESIGNED, INSTALLED, AND MAINTAINED TO THE SATISFACTION OF THE CITY ENGINEER.
 - TEMPORARY "NO PARKING/TOW AWAY" SIGNS STATING THE DATE AND TIME OF PROHIBITION WILL BE POSTED 72 HOURS PRIOR TO COMMENCING WORK. CALL POLICE DISPATCH TO VALIDATE POSTING.
 - ACCESS WILL BE MAINTAINED TO ALL DRIVEWAYS UNLESS OTHER ARRANGEMENTS ARE MADE.
 - TRENCHES MUST BE BACKFILLED OR PLATED DURING NON-WORKING HOURS UNLESS K-RAIL BARRIERS ARE PROVIDED. K-RAIL IS APPROVED ONLY WHEN SPECIFICALLY SHOWN ON THE APPROVED TRAFFIC CONTROL PLAN. PLATES SHALL HAVE CLEATS AND COLD MIX AT THE EDGES AS APPROVED BY THE CITY INSPECTOR.
 - STRIPING WILL BE REPLACED BY THE CONTRACTOR WITHIN 24 HOURS, IF REMOVED OR DAMAGED.
 - WORK THAT DISTURBS NORMAL TRAFFIC SIGNAL TIMING OPERATIONS SHALL BE COORDINATED WITH CITY OF NEWPORT BEACH.
 - TRAFFIC SIGNALS SHALL REMAIN FULLY ACTUATED AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER OR HIS REPRESENTATIVE. IF TRAFFIC SIGNAL LOOP DETECTORS ARE RENDERED INOPERATIVE BY THE PROPOSED WORK, VIDEO DETECTION SHALL BE USED TO PROVIDE ACTUATION.
 - FLAGGERS SHALL BE EQUIPPED WITH A WHITE HARD HAT, AN ORANGE VEST, AND A "STOP/SLOW" PADDLE ON A 5 FOOT STAFF.
 - ALL TRAFFIC CONTROL DEVICES MUST BE MAINTAINED 24 HOURS A DAY, 7 DAYS PER WEEK, BY THE COORDINATOR.
 - ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH MANUAL) 2009 ELEVENTH EDITION OF THE AMERICAN PUBLIC WORKS ASSOCIATION SOUTHERN CALIFORNIA CHAPTER.
 - TRAFFIC CONTROL PLAN SUBMITTALS ARE REQUIRED FOR EACH PHASE OF THE WORK IN THE DETAIL, FORMAT, AND QUALITY ILLUSTRATED ON THIS SHEET.
 - ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM VIEW OR COVERED WHEN NOT IN USE.
 - THE CITY ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO INSURE PUBLIC SAFETY.
 - ALL WORK AFFECTING BUS STOPS SHALL BE COORDINATED WITH LOCAL TRANSIT DISTRICT. CONTRACTOR SHALL CALL TRANSIT AT LEAST 72 HOURS IN ADVANCE OF STARTING WORK.
 - CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF TRAFFIC CONTROL ON MAJOR AND PRIME ARTERIALS, UNLESS OTHERWISE APPROVED. THESE SIGNS SHALL BE SHOWN ON THE TRAFFIC CONTROL PLAN.

MINIMUM RECOMMENDED CHANNELIZER AND SIGN SPACING ⁽¹⁾														
SPEED "S" MPH ⁽²⁾	DIMENSION A SIGN SPACING		DIMENSION B MINIMUM MERGING TAPER L		DIMENSION C MINIMUM SHIFTING TAPER 1/2 L		DIMENSION D MINIMUM SHOULDER TAPER 1/3 L		DIMENSION E BUFFER SPACE ⁽⁴⁾		MAXIMUM CHANNELIZER SPACING TAPER ⁽³⁾		MAXIMUM CHANNELIZER SPACING TANGENT ⁽³⁾	
	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)
25	125	(40)	125	(40)	63	(20)	42	(13)	158	(48)	25	(8)	50	(15)
30	180	(60)	180	(60)	90	(30)	60	(20)	205	(62)	30	(9)	60	(18)
35	245	(75)	245	(75)	123	(35)	82	(25)	257	(80)	35	(11)	70	(22)
40	320	(100)	320	(100)	160	(50)	107	(35)	315	(100)	40	(13)	80	(25)
45	540	(165)	540	(165)	270	(80)	180	(55)	378	(115)	48	(15)	98	(30)
50	600	(180)	600	(180)	300	(90)	200	(60)	446	(130)	48	(15)	98	(30)
55	660	(200)	660	(200)	330	(100)	220	(65)	520	(165)	48	(15)	98	(30)
60	720	(220)	720	(220)	360	(110)	240	(75)	596	(180)	48	(15)	98	(30)
65	780	(240)	780	(240)	390	(120)	260	(80)	682	(210)	48	(15)	98	(30)
Local Agency Freeways	1000	(300)	1000	(300)	500	(150)	330	(100)	1000	(300)	48	(15)	98	(30)
Pedestrians	N/A	N/A	20	(6)	15	(3)	6	(2)	N/A	N/A	3	(1)	6	(2)
Bicyclists	Use Roadway Sign Spacing		75	(25)	38	(12)	25	(8)	N/A	N/A	12	(4)	25	(8)

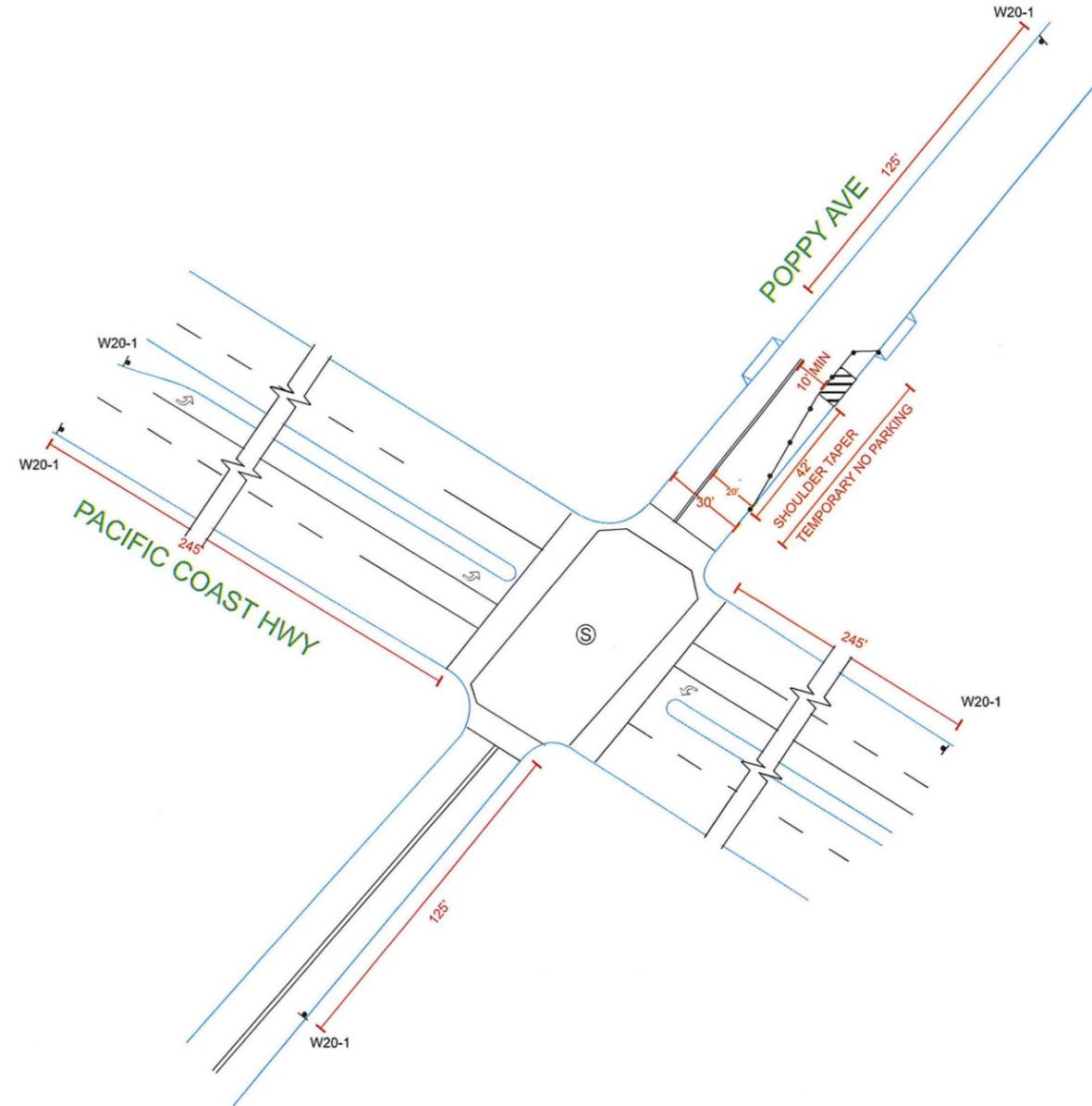
- Refer to specific State requirements for work on State Freeways and State Highways.
- Posted Speed or observed operating speed (whichever is greater).
- Channelizer spacing shall be reduced in half at areas where work is taking place, on curves, or areas on head-on conflict.
- Buffer space may be inserted in low speed urban areas, should be inserted in high speed urban and rural areas, and shall be inserted in Local Agency Freeways. Buffer space, when inserted, should be increased on down grades and should be kept clear of equipment and materials, except for a Shadow Vehicle.

LEGEND

<ul style="list-style-type: none"> DIRECTION OF TRAVEL PORTABLE SIGN TRAFFIC CONE/DELINEATOR TYPE II BARRICADE FLAGGER FLAG TREE 	<ul style="list-style-type: none"> PORTABLE FLASHING BEACON (SEE SIGNAGE NOTE #3) K-RAIL (TYPE 50 CONCRETE BARRIER) CHANGEABLE MESSAGE SIGN FLASHING ARROW SIGN WORK AREA
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	TRAFFIC CONTROL PLANS FOR: MPC1032CA-SOC06m1 PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HWY CITY OF NEWPORT BEACH, CA
CITY OF NEWPORT BEACH, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT	
DRAWN BY: COASTAL COMMUNICATIONS, INC. 5841 EDISON PLACE STE 110 CARLSBAD, CA 92008	TELE: (760) 929-0910 FAX: (760) 929-0936
DRAFTED BY: RUDY RINCON DATE: 7/23/2012	DATE: 7/23/2012
FOR CITY ENGINEER	DATE
DESCRIPTION	BY
ORIGINAL	CCI
AS-BUILTS	
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED
CONSTRUCTION SUPERVISOR GENE MITCHELL MPC1032CA-SOC06m1 408 POPPY AVE FILE NAME	
5 OF 6	

NOTE: W20-1 & G20-2 SHALL BE PLACED ON AFFECTED CROSS STREETS ACCORDING TO THE SPEED LIMIT OF THE CROSS STREET



	TRAFFIC CONTROL PLANS FOR: MPC1032CA-SOC06m1 PUBLIC ROW ADJACENT TO AND WEST OF 3800 E. COAST HWY CITY OF NEWPORT BEACH, CA		
	CITY OF NEWPORT BEACH, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT		
DRAWN BY: COASTAL COMMUNICATIONS, INC. 5841 EDISON PLACE STE 110 CARLSBAD, CA 92008		TELE: (760) 929-0910 FAX: (760) 929-0936	DRAFTED BY: RUDY RINCON TB. PAGE: 519-F3 DATE: 7/20/2012
FOR CITY ENGINEER _____ DATE _____	APPROVED _____ DATE _____	FILED _____	GENE MITCHELL CONSTRUCTION SUPERVISOR
ORIGINAL CCI _____	AS-BUILTS _____	CONTRACTOR _____ DATE STARTED _____	MPC1032CA-SOC06m1 408 POPPY AVE FILE NAME _____
INSPECTOR _____ DATE COMPLETED _____	_____	_____	6 OF 6



COMMUNITY DEVELOPMENT DEPARTMENT

PLANNING DIVISION

100 Civic Center Drive, P.O. Box 1768, Newport Beach, CA 92658-8915

(949) 644-3200 Fax: (949) 644-3229

www.newportbeachca.gov

COMMUNITY DEVELOPMENT DIRECTOR ACTION LETTER

Application No.	Staff Approval No. SA2016-002 (PA2016-008)
Applicant	Crown Castle NG West LLC
Owner	Public Right-of-Way
Site Address	3000 Fifth Avenue (CS), (between Sea Ln & 5th Ave)
Legal Description	Public right-of-way along Goldenrod Avenue to the west of the property located at 3000 Fifth Avenue within Block 93 of the Irvine Subdivision as recorded in Book 5934 Page 127

On **March 4, 2016**, the Community Development Director approved Staff Approval No. SA2016-002, finding substantial conformance with Telecom Permit No. TP2012-004 (PA2012-041), which authorized a new telecom facility on an existing wood utility pole in the public right-of-way. The staff approval modifies the type of omni-directional antenna and pole-mounted radio unit on the approved telecom site. No other changes are proposed. This approval is based on the findings and subject to the following conditions.

BACKGROUND

Telecom Permit No. TP2012-004 was approved on November 28, 2012, by the Community Development Director allowing the installation of a Distributed Antenna System (DAS) facility on an existing wooden Southern California Edison (SCE) utility pole (ID#1728160E). The facility consists of a single phazar omni-directional antenna on a braceless arm, power riser, communications riser, fiber, and associated equipment boxes. The facility is proposed within the Goldenrod Avenue public right-of-way at the west side of the property addressed as 3000 Fifth Avenue. The proposed height of the antenna and related equipment will not exceed 28 feet 3 inches in height where the existing utility pole is 39 feet 2 inches in height.

The applicant requested two previous extensions of time as the facility had not been constructed to-date. On November 25, 2014, and November 25, 2015, the Community Development Director approved extensions of time for Telecom Permit No. TP2012-004 through November 28, 2016.

PROPOSED CHANGES

This staff approval modifies the type of omni-directional antenna and pole-mounted radio unit on the approved telecom site and finds these structures in substantial conformance with the original Telecom Permit No. TP2012-004. The diameter of the omni-directional antenna would increase from a 2-inch diameter to an 8.11-inch diameter where the length of the antenna will remain the same at 2 feet. The pole-mounted radio unit would be modified to 6.1 inches in width by 32.7 inches in length by 5.8 inches in depth where the previously approved radio-unit measured 18 inches in width by 20.9 inches in length by 8.2 inches in depth. No other changes are proposed to the facility.

FINDINGS

Pursuant to [Section 20.54.070 \(Changes to an Approved Project\)](#), the Community Development Director may authorize minor changes to an approved site plan, architecture, or the nature of the approved use, without a public hearing, and waive the requirement for a new use permit application. This staff approval is based on the following findings and facts in support of the findings.

Finding:

A. *Are consistent with all applicable provisions of this Zoning Code.*

Facts in Support of Finding:

1. The telecom facility was approved prior to the current Telecom Ordinance. Under the current Zoning Code provisions, Class 3 telecom facilities require a minor use permit in the public right-of-way. The site was approved with a telecom permit in 2012 in accordance with the provisions of the Municipal Code at the time.
2. The proposed telecommunications facility received approval of Telecom Permit No. TP2012-004 on November 28, 2012, which authorized a DAS facility to be mounted on an existing wooden utility pole in the public right-of-way.
3. The proposed changes to the omni-directional antenna and pole-mounted radio unit are consistent with the operational characteristics and conditions approved by Telecom Permit No. TP2012-004 and are not considered substantial changes to the existing approval.

Finding:

B. *Do not involve a feature of the project that was a basis for or subject of findings or exemptions in a negative declaration or Environmental Impact Report for the project.*

Facts in Support of Finding:

1. The previously approved telecom facility was not subject to a negative declaration or Environmental Impact Report.
2. This project has been reviewed, and it has been determined that it is categorically exempt from the requirements of the California Environmental Quality Act under Section 15301, Class 1 (Existing Facilities). Class 1 allows minor alteration of existing public or private structures where negligible or no expansion of an existing use is involved. The proposed project involves a minor alteration to add antennas and supporting equipment to an existing SCE utility pole.

Finding:

- C. *Do not involve a feature of the project that was specifically addressed or was the subject of a condition(s) of approval for the project or that was a specific consideration by the applicable review authority in the project approval.*

Facts in Support of Finding:

1. The proposed changes to the omni-directional antenna and pole-mounted radio unit do not involve a feature that was specifically addressed in the Community Development Director Action Letter, or subject to a condition of approval for Telecom Permit No. TP2012-004.
2. The omni-directional antenna diameter is increasing but the length of the antenna will remain the same. The increased antenna diameter is minor and is in substantial conformance with the original telecom facility.
3. The length of the pole-mounted radio unit will increase slightly from 20.9 inches to 32.7 inches. However, the overall width of the pole-mounted radio unit will decrease from 18 inches to 6.1 inches in width. The change to the pole-mounted radio unit size is minor and in substantial conformance with the original telecom facility.

Finding:

- D. *Do not result in an expansion or change in operational characteristics of the use.*

Facts in Support of Finding:

1. The telecom facility will operate with the same capacity and use as was previously approved under Telecom Permit No. TP2012-004. The omni-directional antenna will be mounted at the same height on the existing wooden utility pole.

DETERMINATION

This staff approval request has been reviewed and a determination has been made that the proposed modifications to the omni-directional antenna and pole-mounted radio unit are in substantial conformance with Telecom Permit No. TP2012-004 (PA2012-041).

CONDITIONS OF APPROVAL

1. The development shall be in substantial conformance with the approved site plan, floor plans, and building elevations stamped and dated with the date of this approval. (Except as modified by applicable conditions of approval.)
2. *The omni-directional antenna shall not exceed 8.11 inches in diameter or 2 feet in length.*
3. *The pole-mounted radio unit shall not exceed 32.7 inches in length by 6.1 inches in width by 5.8 inches in depth.*
4. *The conditions of Telecom Permit No. TP2012-004 (PA2012-041) shall remain in full force and effect.*
5. To the fullest extent permitted by law, applicant shall indemnify, defend and hold harmless City, its City Council, its boards and commissions, officials, officers, employees, and agents from and against any and all claims, demands, obligations, damages, actions, causes of action, suits, losses, judgments, fines, penalties, liabilities, costs and expenses (including without limitation, attorney's fees, disbursements and court costs) of every kind and nature whatsoever which may arise from or in any manner relate (directly or indirectly) to City's approval of the Crown Castle Staff Approval including, but not limited to, the SA2016-002 (PA2016-008). This indemnification shall include, but not be limited to, damages awarded against the City, if any, costs of suit, attorneys' fees, and other expenses incurred in connection with such claim, action, causes of action, suit or proceeding whether incurred by applicant, City, and/or the parties initiating or bringing such proceeding. The applicant shall indemnify the City for all of City's costs, attorneys' fees, and damages, which City incurs in enforcing the indemnification provisions set forth in this condition. The applicant shall pay to the City upon demand any amount owed to the City pursuant to the indemnification requirements prescribed in this condition.

APPEAL PERIOD

An appeal may be filed with the Director of Community Development or City Clerk, as applicable, within fourteen (14) days following the date the action or decision was rendered. For additional information on filing an appeal, contact the Planning Division at (949) 644-3200.

On behalf of Kimberly Brandt, AICP, Community Development Director

By:



Makana Nova
Associate Planner

JWC/mkn

Attachments: CD 1 Vicinity Map
CD 2 Applicant's Project Description
CD 3 Telecom Permit No. TP2012-004 (PA2012-041)
CD 4 Project Plans

Attachment No. CD 1

Vicinity Map

VICINITY MAP



Staff Approval No. SA2016-002
PA2016-008

3000 Fifth Avenue (CS)

Attachment No. CD 2

Applicant's Project Description



PROJECT DESCRIPTION

Crown Castle NG West LLC – City of Newport Beach

Request: Modification to Existing Telecommunications Facility Permit No. TP2012-004

Project: Distributed Antenna System (DAS) Installation on Existing Utility Pole (SOC05m1)

Location: Goldenrod Avenue Public ROW West of 3000 5th Ave (between Sea Ln & 5th Ave)

Background and Request

Crown Castle NG West LLC (Crown Castle) is a regulated public utility company providing fiber-optic transport service to commercial wireless providers often in areas where the wireless provider has little or no existing service coverage for its customers, and where traditional “macro” wireless facilities may be more problematic due to cost, terrain, physical/natural obstructions, and zoning restrictions (i.e. residential areas, hilly terrain, urban settings, coastal highways). Crown Castle relies upon its ability to utilize new and existing utility infrastructure (including streetlights, traffic signals and wood utility poles) within the public right-of-way to install individual facilities or a cluster of interconnected low power, low impact communications installations more commonly referred to as “Distributed Antenna System (DAS)” nodes or small cells. Crown Castle’s customers are not individual wireless users, but rather the commercial wireless carriers that provide such service to the consumer. The subject planning application pertains to a previously-approved Telecommunications Facility Permit No. TP2012-004 involving an existing utility pole (Pole #1728160E) located along Goldenrod Avenue, West of 3000 5th Avenue (between Sea Lane and 5th Avenue) in the City of Newport Beach. Crown Castle is requesting that the original Telecommunications Facility Permit No. TP2012-004 be **modified** to allow for a change to the approved pole-mounted antenna and radio equipment.

Project Location and Surroundings

As noted, the project involves the installation of a DAS node facility on an existing wood utility pole (Pole ID# 1728160E) located in the public right-of-way along Goldenrod Ave, West of 3000 5th Avenue (between Sea Lane and 5th Avenue). This DAS node is identified by Crown Castle as SOC05m1. Surrounding zone districts include PF (Public Facilities) to the northeast and southeast, R2 (Two Unit Residential) to the southwest, and PC-34 (Point Del Mar) to the northwest. Surrounding land uses include Harbor View Elementary School and outdoor recreation area to the northeast, Grant Howard Park and Tennis Courts to the southeast, and residences to the southwest and northwest across Goldenrod Ave and 5th Ave. The existing wood poles in this overhead alignment may vary in overall height, but appear to extend 35’-45’ to the top of pole. The subject pole measures 39’-2” to the top of pole.

Project Design

Crown Castle received approval pursuant to Telecommunications Facility Permit No. 2012-004 to install a small omni directional antenna approximately 20’-3” above ground level, and to attach appurtenant equipment (consisting of a Powerwave radio unit, electrical disconnect box, and WTR fuse box) at a minimum height of 8’-0” above ground level on an existing wood utility pole. More specifically, the approved scope of work consisted of the following improvements:

- Install new 18”W x 20”H Powerwave radio unit, new 12”W x 12”H WTR fuse box, and new 6”W x 9”H electrical disconnect box on pole at minimum 8’-0” above grade. All equipment to be painted to match underlying pole.
- Install new Crown Castle fiber line at 19’-3”.



- Install new braceless crossarm at 20'-3", and place new 2" Dia., 24" L Phazar omni-directional antenna on crossarm (22'-3" to top of antenna). New Phazar antenna to be offset approximately 3'-0" from NW side of pole.
- Install 1" Schedule 80 power riser and 2" Schedule 80 comm riser on pole.

During the time that has elapsed since the original permit approval back in November 2014, the antenna and radio product options have changed, and Crown Castle is implementing a new node configuration to meet its carrier customer's network needs primarily driven by the increasing demand for LTE services. The mounting heights and attachment locations on the subject poles remain unchanged. However, Crown Castle is seeking to install a different omni-directional antenna, as well as a different pole-mounted radio unit. More specifically, the following project design modifications are proposed:

- **Install new 8.11" Dia., 24" L KMW omni-directional antenna on crossarm (in place of previously approved 2" Dia., 24" L Phazar omni-directional antenna).** The new antenna remains 24" in length, but has a larger diameter (8.11") than the original antenna (2"). The antenna would be mounted on a new crossarm at 19'-10" (22'-3" to top of antenna). As such, the crossarm will remain in virtually the same location and the antenna will have the same overall height as originally approved.
- **Install new 6.1" x 32.7" x 5.8" Andrew ION radio on existing utility pole (in place of previously approved 18" x 20.9" x 8.2" Powerwave radio).** Although longer, the new radio is significantly narrower (6.1") than the original radio (18"). As you might expect, the new radio will be significantly less impacting visually since at 6"-wide it will not project beyond the edges of the underlying wood utility pole. The new antenna and radio unit can be painted to better blend with the wood pole.

Operational Compliance

The proposed Crown Castle installation will operate in full compliance with established FCC standards and requirements for RF emissions. By design, the proposed DAS installation consists of a low power, low output facility that falls well below federal standards for radio-frequency emissions. Maximum input power for the proposed ION radio unit is approximately 40 watts. The proposed KMW omni-directional antenna will transmit at a frequency between 1,710 and 2,155 MHz, and be elevated 20'-3" to 22'-3" above ground level. Thus, even under maximum power, the level of RF exposure at ground level from the proposed DAS installation should not exceed 0.41% of the FCC public safety standard. Additionally, the proposed project will not interfere with other communication, radio or television transmission/reception in and around the subject location. As detailed in the design description above, the proposed DAS installation will comply with CPUC and local utility regulations pertaining to the construction, operation and maintenance of the facility.

CEQA/Regulatory Summary

Crown Castle NG West LLC (formerly NextG Networks of California, Inc.) possesses a Certificate of Public Convenience and Necessity (CPCN) from the California Public Utilities Commission (CPUC), and as such, is recognized as a "telephone corporation" – and therefore a public utility – under state law. The authority conveyed upon Crown Castle through CPCN No. U-6745-C allows for the provision of both limited and full facilities-based telecommunications services subject to the terms and conditions set forth in the grants of approval dated January 30, 2003 and April 12, 2007.



Section VII of CPCN No. U-6745-C affirms the CPUC's role as lead agency for CEQA review and determination for the construction of facilities covered under the limited facilities-based authorization. The Commission concluded that as far as the construction of facilities on existing buildings or structures (including utility poles), for the purpose of providing interexchange or local exchange services, *"it can be seen with certainty that there is no possibility that granting this application will have an adverse effect upon the environment."* Insomuch as the proposed DAS node on an existing wood utility pole along Goldenrod Avenue (West of 3000 5th Avenue, between Sea Lane and 5th Avenue) is consistent with Crown Castle's Limited and Full Facilities-Based CPCN, the project is considered by the CPUC to be exempt for purposes of CEQA.

Attachment No. CD 3

Telecom Permit No. TP2012-004
(PA2012-041)



COMMUNITY DEVELOPMENT DEPARTMENT

PLANNING DIVISION

3300 Newport Boulevard, Building C, Newport Beach, CA 92663

(949) 644-3200 Fax: (949) 644-3229

www.newportbeachca.gov

November 28, 2012

Crown Castle NG Networks, Inc
2125 Wright Avenue, #C-9
La Verne, CA 91750

**Re: Telecommunications Facility Permit No. TP2012-004
(PA2012-041)
Goldenrod Avenue public ROW west of 3000 Fifth Ave
(between Sea Ln & 5th Ave)
Crown Castle DAS PROW Goldenrod/Fifth**

Dear Mr. Chiu,

It was a pleasure working with you on the Crown Castle NG Telecommunications Facility Permits. Please find attached the approved resolution for TP2012-004 (PA2012-041). If you have any questions, please do not hesitate to contact me directly. Thank you and I look forward to working with you again in the future.

Sincerely,

Makana Nova
Assistant Planner

GR/mkn

Cc:

Plancom, Inc.
Carver Chiu
250 El Camino Real, Suite 117
Tustin, CA 92780



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COMMUNITY DEVELOPMENT DIRECTOR ACTION LETTER

APPLICATION: Telecommunications Permit No. TP2012-004 (PA2012-041)

APPLICANT: Crown Castle NG Networks, Inc

LOCATION: Goldenrod Avenue public right-of-way west of 3000 Fifth Ave
(between Sea Ln & 5th Ave)

LEGAL DESCRIPTION: Public right-of-way along Goldenrod Avenue to the west of the property located at 3000 Fifth Avenue within Block 93 of the Irvine Subdivision as recorded in Book 5934 Page 127

PROJECT REQUEST AND DESCRIPTION

Crown Castle NG Networks, Inc has submitted an application requesting a telecommunications permit to allow the installation of a Distributed Antenna System (DAS) facility consisting of a single phazar omni-directional antenna on a braceless arm, power riser, communications riser, fiber, and associated equipment boxes mounted on an existing wooden Southern California Edison (SCE) utility pole (ID#1728160E) located within the public right-of-way. The facility is proposed within the Goldenrod Avenue public right-of-way (PROW) at the west side of the property addressed as 3000 Fifth Avenue. The proposed height of the antenna and related equipment will not exceed 28 feet 3 inches in height where the existing utility pole is 39 feet 2 inches in height.

ACTION: **Approved with Conditions – November 28, 2012**

In approving this application, the Community Development Director analyzed issues regarding compliance with Chapter 15.70 of the Newport Beach Municipal Code. This approval is based on the findings and subject to the following conditions attached to this report (Attachment No. CD 2).

The Community Development Director determined in this case that the proposed wireless telecommunications facility (“telecom facility”) meets the provisions of Chapter 15.70.

ENCROACHMENT PERMIT

An encroachment permit issued and approved by the Public Works Department is required to allow installation and construction of the project in the PROW.

Section 15.70.060 (Design Standards) of the Newport Beach Municipal Code (NBMC) also requires that telecom facilities and/or support equipment proposed to be located in the PROW comply with the provisions of Title 13 (Streets, Sidewalks, and Public Property). The Public Works Department has reviewed the proposed project plans and submittal items, and has provided a condition of approval requiring that all work conducted in the PROW to satisfy applicable requirements of Chapter 13.20.

BACKGROUND

This is one of seven applications Crown Castle has filed with the City to install antenna nodes within the PROW along or in the vicinity of East and West Coast Highway. A location map of the proposed facilities is included as Attachment CD 3. Photographs of the existing site conditions are included as Attachment No. CD 4.

FACILITY DESCRIPTION

The nodes (radio transmitters and receivers connected via fiber optic cables to Crown Castle NG's wireless clients) include a phazar omni-directional antenna, measuring approximately 2 inches in diameter and 26 inches in length and a powerwave equipment box, measuring 8.2 inches in depth by 18 inches in width by 20.9 inches in height. The antenna would be attached 20 feet high on an existing 39-foot 2-inch high free-standing utility pole and the equipment would not exceed 28 feet 3 inches in height. The equipment boxes would be mounted to the exterior of an existing free-standing pole and would maintain a minimum clearance of 8 feet above existing grade. The facility does not require the use and placement of other support equipment, such as ground-mounted equipment cabinets or pedestal meters, for power to support the nodes. Rather, Crown Castle NG has an agreement for unmetered electric service in place with Southern California Edison (SCE), under which terms the installation would utilize a fuse box, measuring 6 inches in depth by 12 inches in width by 12 inches in height, and a disconnect switch measuring 4 inches in depth by 6 inches in width by 9 inches in height. The fuse box and disconnect switch would be mounted on the existing utility pole below the powerwave box.

HEIGHT AND LOCATION

Section 15.70.050 (Height and Location) of the Newport Beach Municipal Code (NBMC) provides that antennas may be installed on utility poles within the PROW at a maximum height of 35 feet, and designates existing utility poles as a priority location for the installation of telecom facilities. The facility is proposed to be located on an existing SCE utility pole with the equipment at a maximum height of 28 feet 3 inches above grade.

DESIGN STANDARDS

Section 15.70.060 (Design Standards) of the NBMC establishes design standards, and provides criteria for consideration by the reviewing authority, which includes blending, screening and size of the proposed facility. In this case, the proposed antenna and

equipment box are minimal in size and will be painted to blend in with the existing utility pole.

CO-LOCATION FEASIBILITY

Section 15.70.050.C (Co-Location Requirements) of the City of Newport Beach Municipal Code requires that a new telecom facility proposed within 1,000 feet of an existing facility be co-located on the same site as the existing facility unless, based on evidence submitted by the applicant, that such co-location is not feasible.

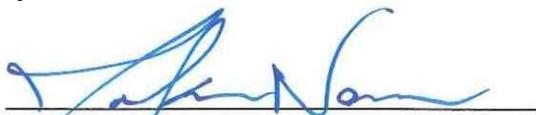
The proposed telecom facility is located within 1,000 feet of two facilities that are located at 2744 East Coast Highway and 611 Heliotrope Avenue. The applicant has provided information indicating that co-locating with these facilities is not feasible. Both of the existing sites are located on private property and would require a separate third-party agreement that could result in significant time and cost impacts without assurance that an acceptable agreement could be reached between the parties. Because the sites currently accommodate high power macro antennas, the lower power antennas proposed by the Crown Castle NG DAS facility could not be ensured effective signal propagation. Finally, the existing facility at 611 Heliotrope Avenue is located within a church steeple that would require a modification to the steeple design and an increase in overall height of the steeple structure to accommodate the Crown Castle NG antenna and coaxial connection. Refer to the applicant's project description and justification provided as Attachment No. CD 5.

APPEAL PERIOD

Telecom facility applications do not become effective until 14 days after the date of action, during which time the applicant or any interested party may appeal the decision of the Community Development Director and division staff to the City Council by submitting a written appeal application to the City Clerk. For additional information on filing an appeal, contact the City Clerk at 949-644-3005.

On behalf of Kimberly Brandt, Community Development Director,

By:



Makana Nova
Assistant Planner
GR/mkn

Attachments: CD 1 Vicinity Map
CD 2 Findings and Conditions of Approval
CD 3 Location Map
CD 4 Site Photos
CD 5 Applicant's Project Description and Justification
CD 6 Photo Simulations
CD 7 Project Plans

Attachment No. CD 1

Vicinity Map

VICINITY MAP

Goldenrod Avenue public ROW west of 3000 Fifth Ave
(between Sea Ln & 5th Ave)



Telecommunications Permit No. TP2012-004
(PA2012-041)

Attachment No. CD 2

Findings and Conditions of Approval

**FINDINGS AND
CONDITIONS OF APPROVAL
TELECOMMUNICATIONS PERMIT NO. TP2012-004
(PA2012-041)**

FINDINGS

1. The telecommunications facility as proposed meets the intent of Chapter 15.70 of the Newport Beach Municipal Code (NBMC), while ensuring public safety, reducing the visual effects of telecom equipment on public streetscapes, protecting scenic ocean and coastal views, and otherwise mitigating the impacts of such facilities for the following reasons:
 - The proposed telecom facility will not be detrimental to public health or safety and it is required to comply with the applicable rules, regulations and standards of the City, the Federal Communications Commission (FCC), and the California Public Utilities Commission (CPUC).
 - As conditioned, the approved DAS facility in this location will not result in conditions that are materially detrimental to nearby property owners, residents, and businesses, nor to public health or safety.
 - Due to the location and design of the DAS facility, there is no impact to public views. The proposed facility will not have an effect on public streetscapes, or scenic ocean and coastal views because the facility is proposed to be installed on an existing SCE utility pole located in the PROW, and in an area where there are no scenic ocean or coastal views.
 - The applicant selects locations based on the direction of their customers (in this case, MetroPCS). The DAS nodes are interspersed with existing traditional wireless macro cell sites to provide a system that meets the coverage objectives of the customer. Approving the installation of a DAS node would allow the facility to function as intended in this location.

2. The telecommunications facility as proposed conforms to the technology, height, location and design standards for the following reasons:
 - The telecom facility approved under this permit utilizes the most efficient and diminutive available technology in order to minimize the number of facilities and reduce the visual impact.
 - The installation of a DAS node in this location is consistent with the height, location and design standards specified in Sections 15.70.050 (Height and Location) and 15.70.060 (Design Standards) of the NBMC. The proposed antenna and equipment would be mounted at a height of 28 feet 3 inches, where the code permits installation on utility poles within the PROW up to 35 feet, provided that the antenna does not exceed the top of the pole. Per the code, the existing SCE utility pole is a priority location for the

installation of the telecom facility. The proposed antenna and equipment boxes are minimal in size and would blend in with the existing SCE utility pole.

- The proposed telecom facility is located within 1,000 feet of two facilities located at 2744 East Coast Highway and 611 Heliotrope Avenue. The applicant has provided information indicating that co-locating with these facilities is not feasible due to time constraints associated with a third party agreement, the presence of high power macro antennas that may inhibit effective signal propagation, and rooftop/steeple modifications that will be necessary to accommodate an additional antenna and equipment. Other alternatives to the proposal were not identified because existing utility poles are considered a priority location for the installation of telecom facilities per Section 15.70.050.B.1 (Height and Location) of NBMC.
- The antennas and equipment for the telecom facility approved by this permit will be painted to match the color of the utility pole on which they are mounted.

This project has been reviewed, and it has been determined that it is categorically exempt from the requirements of the California Environmental Quality Act under Section 15301, Class 1 (Existing Facilities) for the following reason(s):

- Class 1 allows minor alteration of existing public or private structures where negligible or no expansion of an existing use is involved. The proposed project would be a minor alteration to an existing SCE utility pole.

CONDITIONS

1. The development shall be in substantial conformance with the approved plot plan, antenna and equipment plans, and elevations, except as noted in the following conditions.
2. The telecom facility approved by this permit shall comply with all applicable rules, regulations and standards of the Federal Communications Commission (FCC) and the California Public Utilities Commission (CPUC).
3. The telecom facility shall comply with all regulations and requirements of the Uniform Building Code, Uniform Fire Code, Uniform Mechanical Code and National Electrical Code. All required permits shall be obtained prior to commencement of the construction.
4. The telecom facility approved by the permit shall comply with any easements, covenants, conditions or restrictions on the underlying real property upon which the facility is located.

5. All equipment shall be painted and blended to match the utility pole on which it is located.
6. The proposed locations are currently not in an approved City formed Underground Assessment District. In the future, if or when a City formed Underground Assessment District is approved, the applicant shall be required to relocate the facility underground, pursuant to Section 13.20.030 (City Policies Regarding Use of the PROW) of NBMC.
7. The telecom facility shall comply with all regulations and requirements of Chapter 13.20 of the NBMC. All work in the public right-of-way shall require an approved Encroachment Permit. All required permits shall be obtained prior to commencement of the construction.
8. Prior to the issuance of any encroachment permit, architectural drawings and structural design plans shall be submitted to the City of Newport Beach for review and approval by the applicable departments. The construction plans shall satisfy NBMC Section 13.20.080 (Construction Plan) for permit application review and processing. A copy of this approval letter shall be incorporated into the drawings approved for the issuance of permits to construct the facility.
9. The applicant shall assume 100 percent of all costs associated with any alterations to the existing improvements along the public right-of-way for development of the telecom facility.
10. The applicant shall be responsible for the repair and/or replacement of any curb and gutters, concrete sidewalk, alley/street pavement that may be damaged by applicant or its agents, representatives, employees, contractors, or subcontractors through the course of construction, as directed by the Public Works Department.
11. The applicant is required to protect all City landscaping, trees, and irrigation in place. If any damage should occur, the contractor will be required to plant and/or replant as directed by the City and guarantee work for a minimum of one (1) year.
12. If a "hub" is located in City of Newport Beach, then battery storage shall comply with C.F.C. Section 608.1.
13. Prior to issuance of encroachment permits, any contractors and/or subcontractors doing work at this location must obtain a valid business license.
14. The applicant shall provide a "single point of contact" in its Engineering and Maintenance Departments that is monitored 24 hours per day to ensure continuity on all interference issues, and to which interference problems may be reported. The name, telephone number, fax number and e-mail address of that person shall be provided to the Planning Division and Newport Beach Police Department's Support Services Commander prior to activation of the facility.

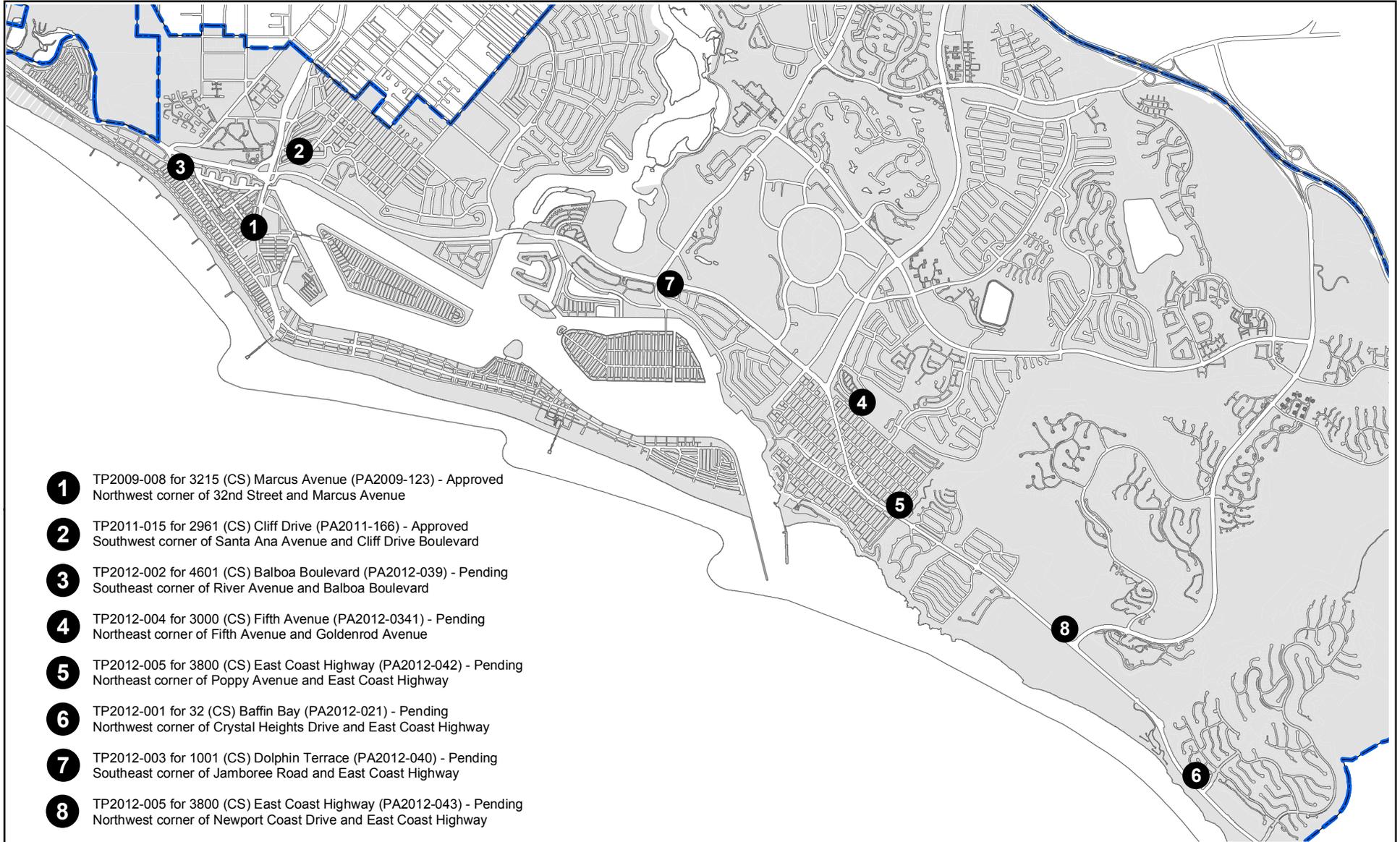
15. The applicant shall not prevent the City of Newport Beach from having adequate spectrum capacity on the City's 800 MHz radio frequencies at any time.
16. Should interference with the City's Public Safety radio equipment occur, use of the telecom facility authorized by this permit shall be suspended until the radio frequency interference is corrected and verification of the compliance is reported.
17. The facility shall transmit at a frequency range of 1,710 to 2,155 MHz. Any change or alteration to the frequency range shall require the prior review and approval of the Planning Division.
18. The applicant recognizes that the frequencies used by the cellular facility located at Goldenrod Avenue public ROW west of 3000 Fifth Ave (between Sea Ln & 5th Ave) are extremely close to the frequencies used by the City of Newport Beach for public safety. This proximity will require extraordinary "comprehensive advanced planning and frequency coordination" engineering measures to prevent interference, especially in the choice of frequencies and radio ancillary hardware. This is encouraged in the "Best Practices Guide" published by the Association of Public-Safety Communications Officials-International, Inc. (APCO), and as endorsed by the Federal Communications Commission (FCC).
19. Within 30 days after installation of the telecom facility, a radio frequency (RF) compliance and radiation report prepared by a qualified RF engineer acceptable to the City shall be submitted in order to demonstrate that the facility is operating at the approved frequency and complies with FCC standards for radiation. If the report shows that the facility does not so comply, the use of the facility shall be suspended until the facility is modified to comply and a new report has been submitted confirming such compliance.
20. Prior to issuance of an encroachment permit, a deposit of \$5,000 shall be paid to the City of Newport Beach. This deposit is required by the Planning Division to ensure preparation and submittal of the RF Compliance and Radiation Report, referenced in the above Condition No. 20. The deposit will be used to defray any and all fees associated with review of the report by an independent technical consultant, pursuant to Section 15.70.070.B.10 (Fee) of the Telecom Ordinance. Any unused deposit fees/costs will be refunded to the applicant upon determination of compliance with the approved frequency and FCC standards.
21. Appropriate information RF warning signs or plates shall be posted at the access locations and each transmitting antenna. In addition, contact information (e.g. a telephone number) shall be provided on the warning signs or plates to arrange for access to the roof top area. The location of the information warning signs or plates shall be depicted on the plans submitted for construction permits.
22. No advertising signage or identifying logos shall be displayed on the telecom facility except for small identification, address, warning and similar information

plates. A detail of the information plates depicting the language on the plate shall be included in the plans submitted for issuance of encroachment permits.

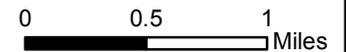
23. Should the property be sold or otherwise come under different ownership, any future owners or assignees shall be notified of the conditions of this approval by either the applicant, current property owner or leasing agent.
24. The applicant shall insure that lessee or other user(s) shall comply with the terms and conditions of this permit, and shall be responsible for the failure of any lessee or other users under the control of the applicant to comply.
25. Any operator who intends to abandon or discontinue use of a telecom facility must notify the Planning Division by certified mail no less than 30 days prior to such action. The operator or property owner shall have 90 days from the date of abandonment or discontinuance to reactivate use of the facility, transfer the rights to use the facility to another operator, or remove the telecom facility and restore the site.
26. The City reserves the right and jurisdiction to review and modify any telecom permit approved pursuant to Chapter 15.70 (Wireless Telecommunication Facilities) of the Newport Beach Municipal Code, including the conditions of approval, based on changed circumstances. The operator shall notify the Planning Division of any proposal to change the height or size of the facility; increase the size, shape or number of antennas; change the facility's color, materials, or location on the site; or increase the signal output above the maximum permissible exposure (MPE) limits imposed by the radio frequency emissions guidelines of the FCC.
27. This telecom permit may be modified or revoked by the Community Development Director should they determine that the facility or operator has violated any law regulating the telecom facility, has failed to comply with the requirements of Chapter 15.70 (Wireless Telecommunication Facilities) of the NBMC, or this telecom permit.
28. This approval shall expire unless exercised within 24 months from the date of approval.

Attachment No. CD 3

Location Map

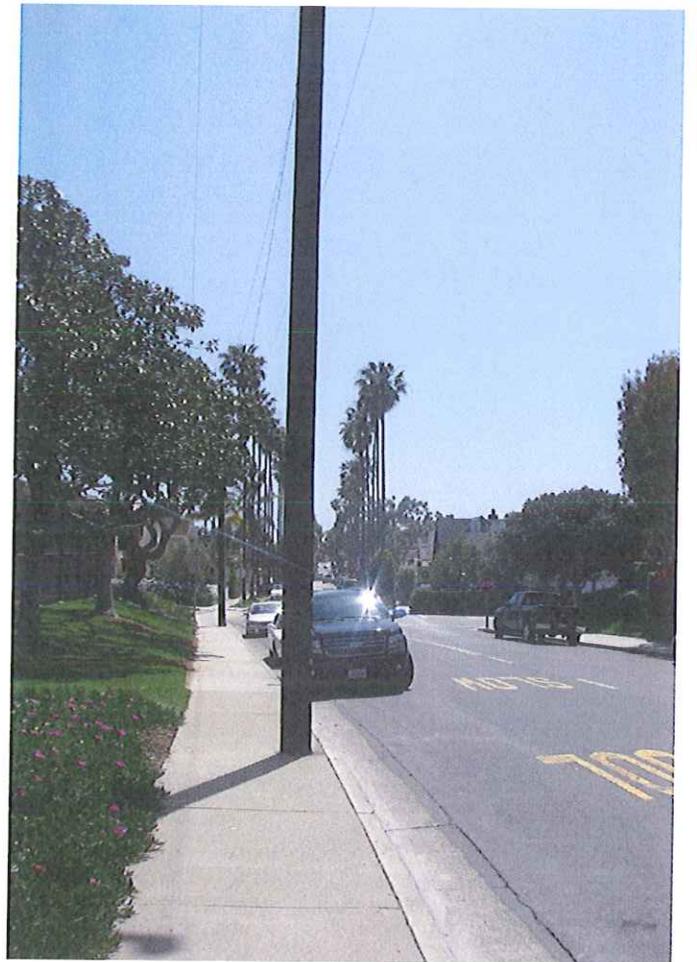
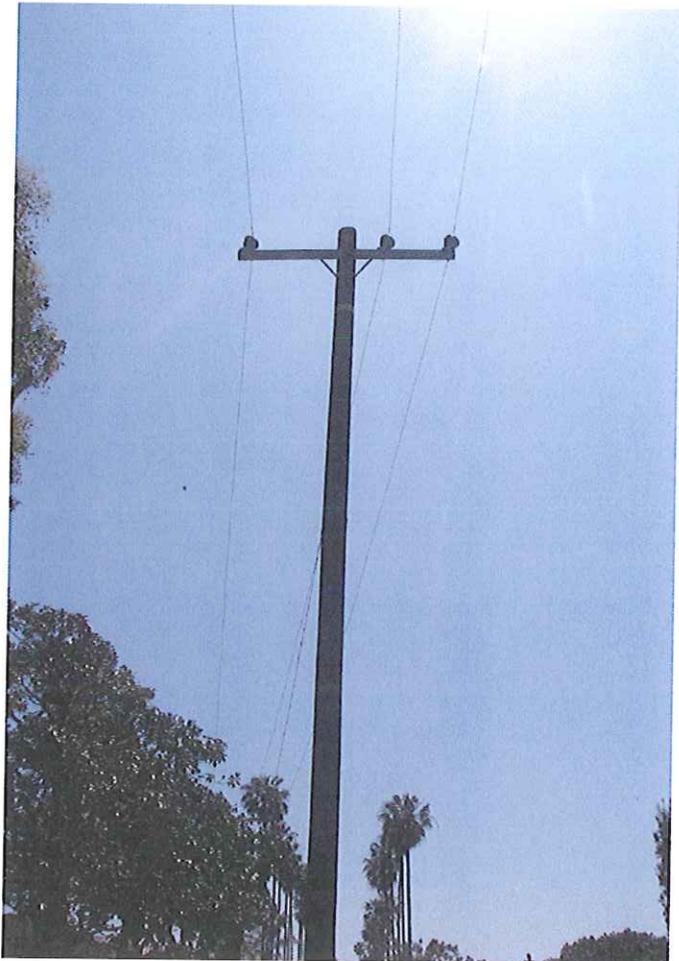
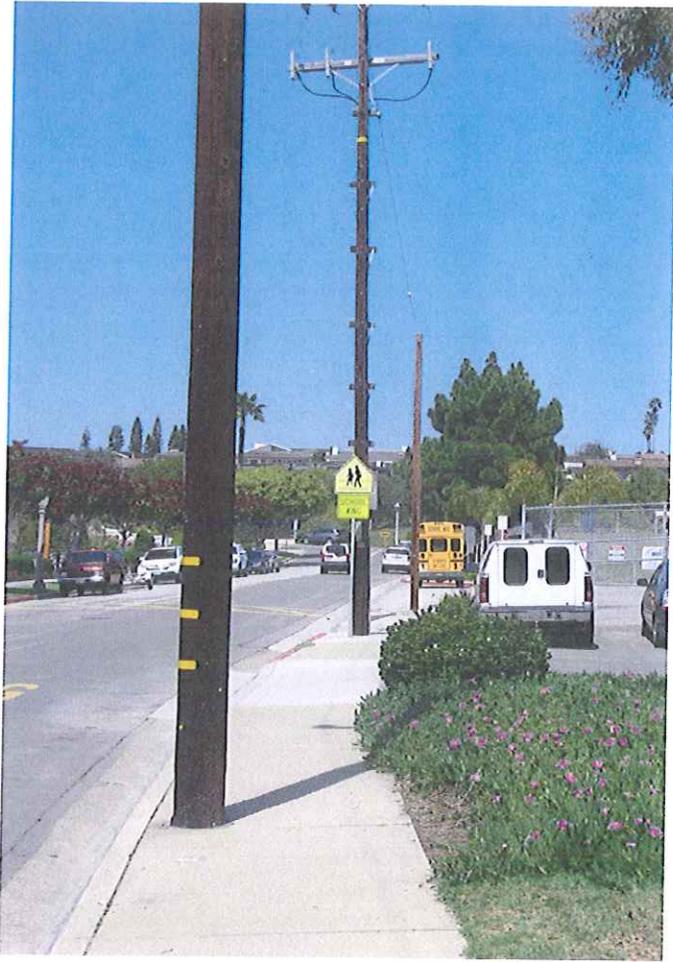


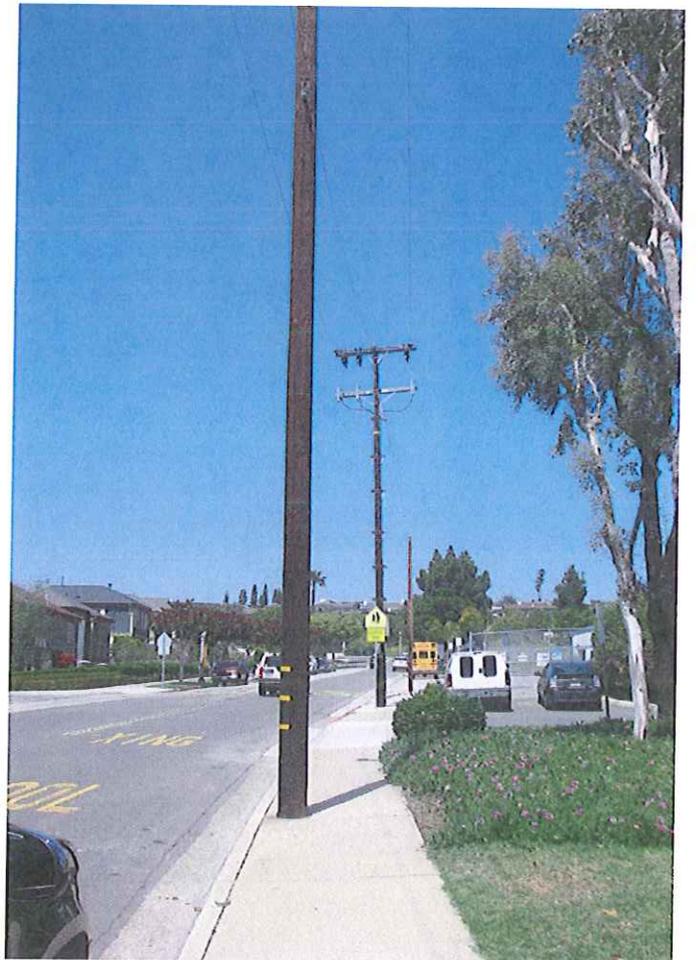
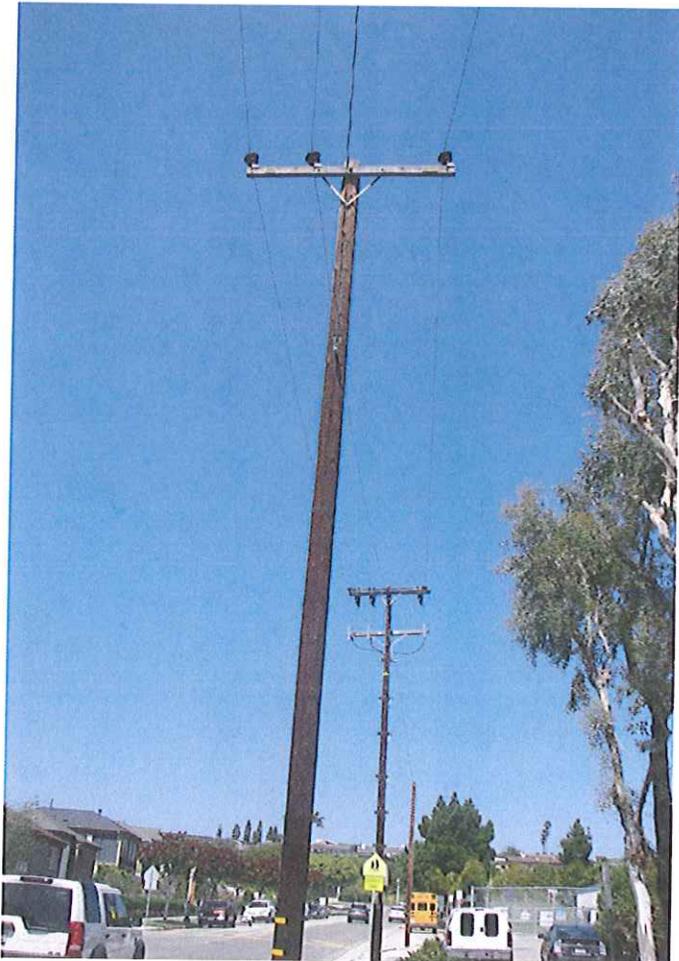
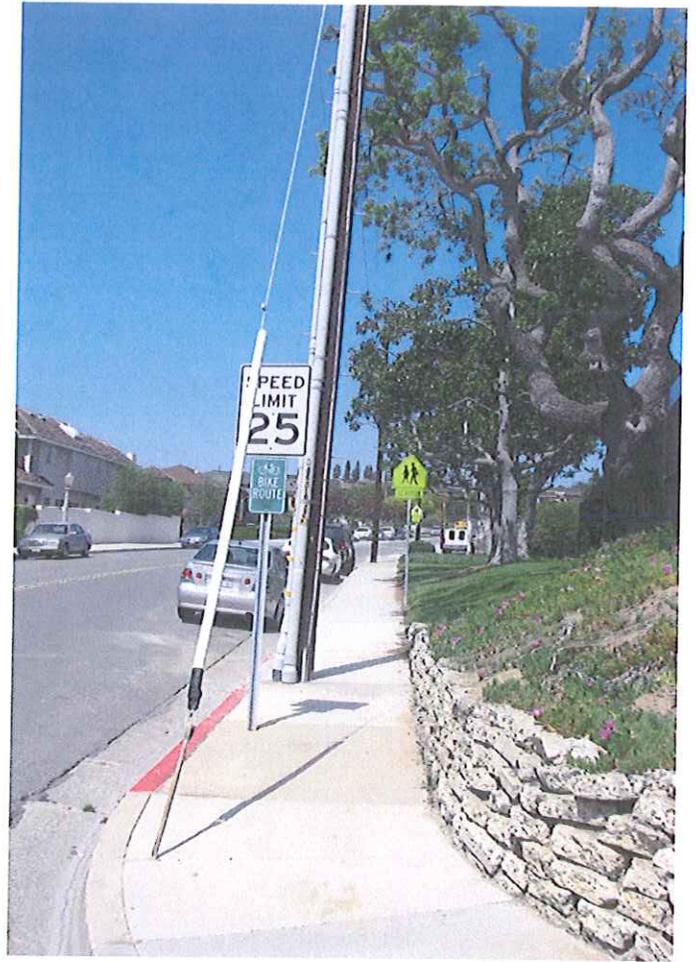
Crown Castle NG DAS Network



Attachment No. CD 4

Site Photos





Attachment No. CD 5

Applicant's Project Description
and Justification



PROJECT DESCRIPTION & SITE JUSTIFICATION

Revised 10/22/2012

Crown Castle NG West – City of Newport Beach

Project: Distributed Antenna System (DAS) Installation on Existing Utility Pole (SOC05m1)

Location: Goldenrod Avenue Public ROW west of 3000 5th Ave (between Sea Ln & 5th Ave)

Background

Crown Castle NG West Inc. (formerly NextG Networks of California Inc.) is a regulated public utility company in the State of California (CPCN No. U-6745-C) specializing in the provision of fiber-optic transport services for the commercial wireless industry. NextG relies upon its ability to utilize existing utility infrastructure (including streetlights, traffic signals and wood utility poles) within the public right-of-way to install individual or interconnected low power, low impact communications facilities collectively referred to as a “Distributed Antenna System” or DAS. Through a service agreement with a wireless carrier, Crown Castle/NextG is able to provide a DAS solution that addresses the carrier’s network objective(s), often in areas where the wireless provider has little or no existing service coverage for its customers, and where more traditional “macro” wireless facilities may be problematic due to topographic constraints, zoning restrictions, and other limiting factors. As a public utility, Crown Castle/NextG is obligated to provide service to any commercial wireless provider that is willing to purchase Crown Castle/NextG’s DAS right-of-way service. As such, Crown Castle/NextG’s customers are not individual wireless users/subscribers, but rather the commercial wireless carriers that provide that service. The subject telecom application on Goldenrod Ave near 5th Ave is for a proposed DAS installation that will be utilized by MetroPCS to supplement its existing backbone network in Newport Beach, and will primarily provide enhanced network capacity and improved network performance.

Proposed Node Location and Surroundings

Crown Castle/NextG is proposing to locate a new DAS installation (or node) on an existing wood utility pole (Pole ID# 1728160E) in the public right-of-way adjacent to 830 Goldenrod Ave near 5th Ave. This DAS node is identified by Crown Castle/NextG as SOC05m1. Surrounding zone districts include PF (Public Facilities) to the northeast and southeast, R2 (Two Unit Residential) to the southwest, and PC-34 (Point Del Mar) to the northwest. Surrounding land uses include Harbor View Elementary School and outdoor recreation area to the northeast, Grant Howard Park and Tennis Courts to the southeast, and residences to the southwest and northwest across Goldenrod Ave and 5th Ave. The existing wood poles in this overhead alignment may vary in overall height, but appear to extend 35’-45’ to the top of pole. The subject pole measures 39’-2” to the top of pole.

Proposed Node Design

Crown Castle/NextG is proposing to install a small omni directional antenna approximately 20’-3” above ground level, and to attach appurtenant equipment (consisting of a Powerwave radio unit, electrical disconnect box, and WTR fuse box) at a minimum height of 8’-0” above ground level on an existing wood utility pole as illustrated in the attached project drawings. More specifically, the proposed scope of work consists of the following improvements:

- ✚ Install new 18”W x 20”H Powerwave radio unit, new 12”W x 12”H WTR fuse box, and new 6”W x 9”H electrical disconnect box on pole at minimum 8’-0” above grade. All equipment to be painted to match underlying pole.
- ✚ Install new NextG fiber line at 19’-3”.
- ✚ Install new braceless crossarm at 20’-3”, and place new 2”Dia., 24”L Phazar omni-directional antenna on crossarm (22’-3” to top of antenna). New Phazar antenna to be offset approximately 3’-0” from NW side of pole.
- ✚ Install 1” Schedule 80 power riser and 2” Schedule 80 comm riser on pole.

Joint Pole Authorization

Crown Castle/NextG is a member in good standing of the Southern California Joint Pole Committee (JPC) and is authorized to install the proposed DAS facility on the existing wood utility pole (Pole ID# 1728160E) as described

in this application. Through this membership, Crown Castle/NextG derives its authority to apply and obtain approval from the JPC to attach to poles within the purview of the JPC.

Technology

The proposed Crown Castle/NextG node installation utilizes a patented protocol- and frequency-neutral technology which allows the Crown Castle/NextG antenna to interface with its Client's customers within the Client's licensed portion of the radio spectrum. Those signals are subsequently routed through Crown Castle/NextG's fiber optic network and linked back into the Client's network operations center. In this way, Crown Castle/NextG is able to provide its Client with expanded wireless service so the carrier can effectively meet the communications needs of its customers in the affected area(s).

Operational Compliance

The proposed Crown Castle/NextG installation will operate in full compliance with established FCC standards and requirements for RF emissions. By design, the proposed DAS installation consists of a low power, low output facility that falls well below federal standards for radio-frequency emissions. Maximum input power for the proposed Powerwave radio unit is approximately 25 watts. The proposed Phazar omni-directional antenna will transmit at a frequency between 1,710 and 2,155 MHz, and be elevated 20'-3" to 22'-3" above ground level. Thus, even under maximum power, the level of RF exposure at ground level from the proposed DAS installation will not exceed 2% of the FCC public safety standard as detailed in the attached RF Report prepared by Dr. Jerrold T. Bushberg. Additionally, the proposed project will not interfere with other communication, radio or television transmission/reception in and around the subject location. As detailed in the design description above, the proposed DAS installation will also comply with CPUC and local utility regulations associated with the construction, operation and maintenance of the facility.

CEQA

As noted, Crown Castle/NextG was granted a Certificate of Public Convenience and Necessity (CPCN) by the CPUC. The authority conveyed upon Crown Castle/NextG through CPCN No. U-6745-C allows for the provision of limited and full facilities-based telecommunications services subject to the terms and conditions set forth in the grants of approval dated January 30, 2003 and April 12, 2007. See attached Regulatory Overview for additional information pertaining to NextG's regulatory status and CEQA compliance.

Code Conformance / Justification Statement (Chapter 15.70 – Wireless Telecommunication Facilities)

The proposed Crown Castle/NextG DAS installation is a small scale, low power, more diminutive wireless design option by comparison to more traditional 'macro' wireless communication facilities which is consistent with the objective set forth in Section 15.70.040 – Available Technology.

The proposed Crown Castle/NextG DAS installation involves the placement of a small 24" omni-directional antenna on an existing fiber communications line with a proposed top of antenna elevation at 22'-3" AGL which does not exceed the 35'-0" max height limitation for the attachment of antennas on utility distribution poles as set forth in Section 15.70.050.A.

The proposed Crown Castle/NextG DAS installation is to be attached to a wood utility pole that is part of an existing overhead utility alignment within the public right-of-way along Goldenrod Avenue. As such, this location is considered the second most preferred 'location' type in the order of preference set forth in Section 15.70.050.B.

As discussed above, Crown Castle/NextG is a regulated public utility company in the State of California (CPCN No. U-6745-C) specializing in the provision of fiber-optic transport services for the commercial wireless industry. Crown Castle/NextG relies upon its ability to utilize utility infrastructure within the public right-of-way to install individual or interconnected low power, low impact communications facilities collectively referred to as a "Distributed Antenna System" or DAS. Staff has identified two existing telecommunications facilities located within 1000 feet of the proposed Crown Castle/NextG DAS location: 1) an existing macro telecommunications facility at 2744 East Coast Highway; and 2) an existing macro telecommunications facility at 611 Heliotrope. While Crown Castle/NextG appreciates the City's desire to promote the co-location of wireless communications facilities, Crown Castle/NextG is not prepared to consent to co-location with either of these existing telecommunications facilities for the following reasons:

Existing Telecommunications Facility at 2744 East Coast Highway

- ✦ **Outside Public Right-of-Way.** The existing telecommunications facility is currently located outside of the public right-of-way on the rooftop of a privately-owned commercial building. As a licensed public utility, Crown Castle/NextG remains committed to the placement of its proposed fiber-based communications infrastructure within the limits of the public right-of-way where the State's Public Utilities Commission (PUC) has determined to be the appropriate and intended place for the installation of utility infrastructure and as substantiated in Section 7901 of the Public Utilities Code.
- ✦ **Third-Party Agreement.** This location requires that Crown Castle/NextG relocate and redesign the proposed DAS installation, and subsequently enter into a lease agreement with the underlying building owner and/or property owner for the placement of the proposed DAS installation on the rooftop of the commercial building. It is evident that such a requirement would result in significant time and cost impacts to Crown Castle/NextG without any assurance that an acceptable agreement could be reached between the parties, and without any assurance from the City that the project would result in an approvable alternative.
- ✦ **Signal Shadowing/Attenuation Constraint.** The existing rooftop telecommunications facility is a complete concealment design, with all existing antennas and equipment located below and behind the parapet walls of the building. By design, Crown Castle/NextG's proposed 24" omni-directional antenna is intended to be mounted on existing utility crossarms or aerial communication lines whereby the antenna has spatial separation from the surrounding built and natural environment to ensure effective signal propagation. Efforts to conceal the proposed omni-directional antenna on the rooftop of the subject building behind the existing parapet walls (or even if allowed to extend above), would result in significant signal attenuation from the large roof deck of the building, and other rooftop elements including non-RF transparent parapet wall sections and rooftop equipment. In addition, given the proximity and elevation of the existing 'high power' (generally 200 watts per channel peak power) macro antennas on the rooftop, the proposed 'low power' (approximately 6.7 watts per channel peak power) Crown Castle/NextG DAS facility would likely experience varying degrees of signal 'shadowing' and lower overall performance. An analogy may be drawn to the human ear trying to differentiate between two competing voices. Typically, the louder voice wins out and is heard over the softer voice. In much the same way, the stronger RF signal can better differentiate itself when competing against a weaker RF signal in close proximity to each other. Just as a softer voice may not be fully heard and understood, a weaker RF signal may not be properly received/transmitted in the presence of a stronger, more dominant RF signal.

Existing Telecommunications Facility at 611 Heliotrope

- ✦ **Outside Public Right-of-Way.** The existing telecommunications facility is currently located outside of the public right-of-way with antennas concealed in the steeple element of a privately-owned church building. As a licensed public utility, Crown Castle/NextG remains committed to the placement of its proposed fiber-based communications infrastructure within the limits of the public right-of-way where the State's Public Utilities Commission (PUC) has determined to be the appropriate and intended place for the installation of utility infrastructure and as substantiated in Section 7901 of the Public Utilities Code.
- ✦ **Third-Party Agreement.** This location requires that Crown Castle/NextG relocate and redesign the proposed DAS installation, and subsequently enter into a lease agreement with the underlying building/property owner for the placement of the proposed DAS installation inside the steeple element of the church building. It is evident that such a requirement would result in significant time and cost impacts to Crown Castle/NextG without any assurance that an acceptable agreement could be reached between the parties, and without any assurance from the City that the project would result in an approvable alternative.
- ✦ **Constructability/Space Constraint.** The existing church steeple represents a complete concealment design, with all existing antennas located inside the existing steeple structure. Based on a preliminary assessment, the proposed Crown Castle/NextG DAS installation would require a modification to the steeple design and an anticipated increase to the overall height of the steeple structure to accommodate the Crown Castle/NextG antenna and coaxial connection.
- ✦ **Signal Shadowing/Attenuation Constraint.** By design, Crown Castle/NextG's proposed 24" omni-directional antenna is intended to be mounted on existing utility crossarms or aerial communication lines whereby the antenna has spatial separation from the surrounding built and natural environment to ensure

effective signal propagation. In the absence of modifications to the existing steeple structure, efforts to conceal the proposed DAS omni-directional antenna in the existing steeple structure would likely result in signal attenuation and shadowing due to the proximity of the existing 'high power' (generally 200 watts per channel peak power) macro antennas to the proposed 'low power' (approximately 6.7 watts per channel peak power) Crown Castle/NextG DAS installation. As noted previously, this is analogous to the human ear trying to differentiate between two competing voices. Typically, the louder voice wins out and is heard over the softer voice. In much the same way, the stronger RF signal can better differentiate itself when competing against a weaker RF signal in close proximity to each other. Just as a softer voice may not be fully heard and understood, a weaker RF signal may not be properly received/transmitted in the presence of a stronger, more dominant RF signal.

As currently proposed, the DAS installation will be co-located with other utility equipment and services, and does not preclude the future co-location of other wireless communications equipment at this same location. In light of this information, the proposed DAS installation is consistent with Section 15.70.050.C.

As described above, and as detailed in the node drawings accompanying this application, the proposed Crown Castle/NextG DAS installation is small in scale and can be affixed directly to the existing fiber line and wood utility pole and painted to match. As such, the installation is compatible in use and size with other utility appurtenances on the wood utility poles in this area, and is likely to blend effectively with other utility facilities already established in this area, which are general criteria set forth in Section 15.70.060. No lighting is proposed. No advertising signage or identifying logos shall be displayed, other than required FCC identification/warning signs/plates.

Attachment No. CD 6

Photo Simulations



NextG Networks

Exhibit 7.01

Color Photo Study and Color Photo Simulations



NextG Networks

PHOTO STUDY

PROPOSAL TO INSTALL DAS COMMUNICATIONS
NODE IN PUBLIC RIGHT-OF-WAY

SOC05

Existing Utility Pole adjacent to 830 Goldenrod Ave (near 5th Ave)
Newport Beach, CA

Prepared for:

City of Newport Beach
3300 Newport Blvd
Newport Beach, CA 92663

Prepared by:

PlanCom, Inc.
*Contractor Representatives for **NextG Networks of CA***
250 El Camino Real, Suite 117
Tustin, CA 92780

Contact:

Carver Chiu, Planning Consultant
(949) 290-9678

March 30, 2012



VIEW #1 – Looking NORTHWEST from proposed DAS node location



VIEW #2 – Looking NORTHEAST from proposed DAS node location



NextG Networks



VIEW #3 – Looking SOUTHEAST from proposed DAS node location



VIEW #4 – Looking SOUTHWEST from proposed DAS node location



NextG Networks



VIEW #5 – Looking NORTHEAST at proposed DAS node location (from Goldenrod Ave & 5th Ave)



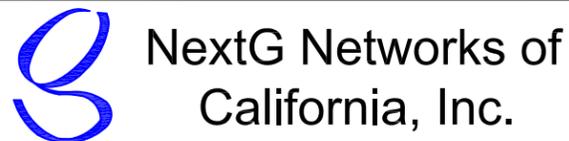
VIEW #6 – Looking SOUTHWEST at proposed DAS node location (from Goldenrod Ave)



VIEW #7 – Looking SOUTHEAST at proposed DAS node location (from Sea Lane)

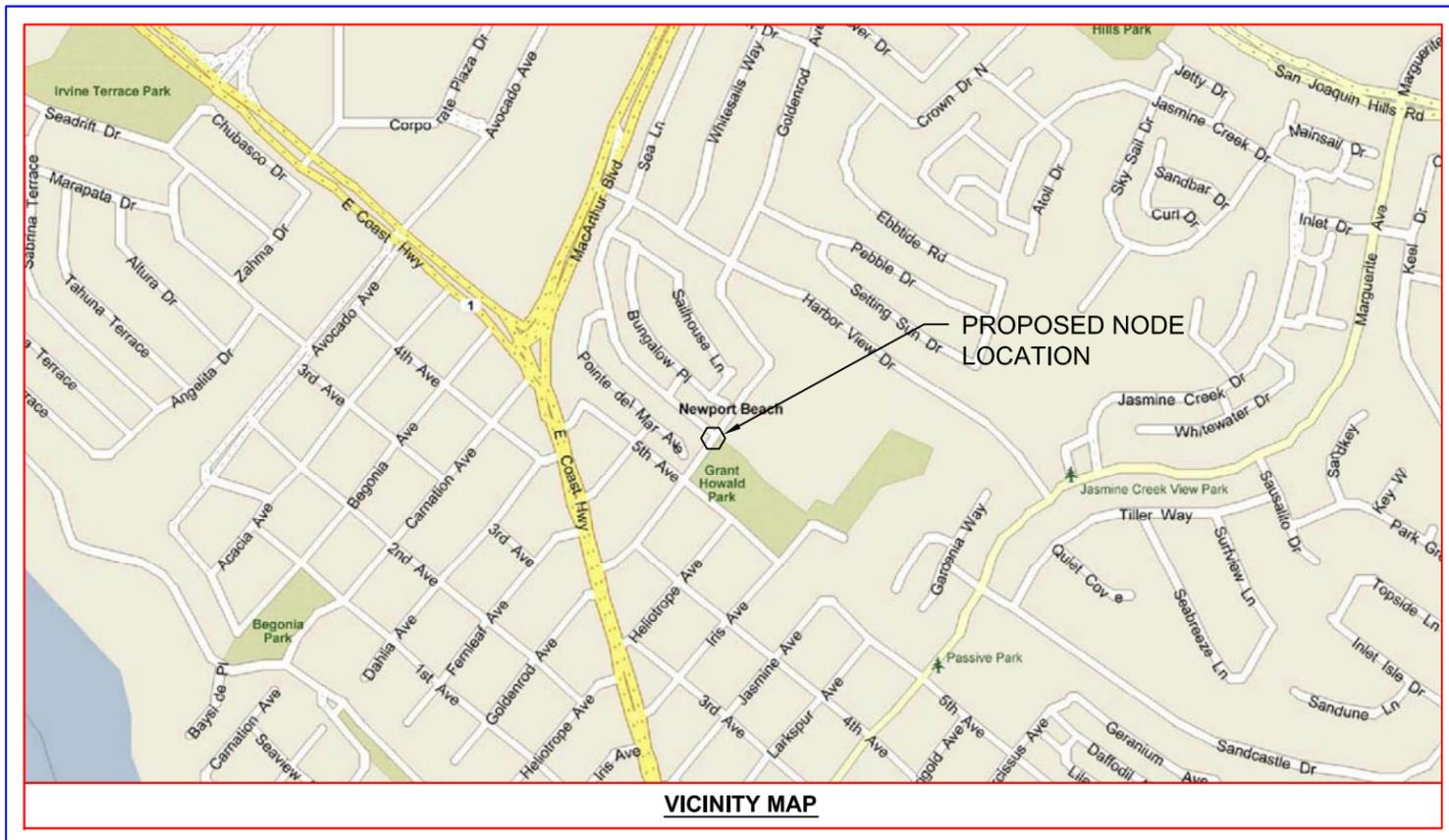
Attachment No. CD 7

Project Plans



MPC1032CA-SOC05m1

POLE #1728160E
 GOLDENROD AVENUE PUBLIC ROW
 WEST OF 3000 FIFTH AVE (BETWEEN SEA LN & 5th AVE)
 CITY OF NEWPORT BEACH, CA



- GENERAL NOTES**
- INDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES, THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNITY AND HOLD REPRESENTATIVES, AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
 - PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, THE CONTRACTOR SHALL FULLY COMPLY WITH "CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH" ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO.
 - ALL WORK SHALL CONFORM TO THE LATEST EDITION OF GO 95, 128, AND THE STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", AS ADOPTED BY THE CITY, COUNTY, OR STATE AS MODIFIED BY STANDARDS PLANS AND ADDENDUMS.
 - THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCIES FACILITIES AS SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS, OTHER FACILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OR WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
 - THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCAVATION.
 - THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY, OR STATE ENGINEER INSPECTION DEPARTMENT, AT LEAST TWO DAYS BEFORE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
 - ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WORK AREA TRAFFIC CONTROL HANDBOOK AND SPECIFICATIONS FROM THE CITY, COUNTY OR STATE.
 - THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THE FINISHED GRADE AT ALL TIMES.
 - THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 24 INCHES TO THE FINISHED GRADE AT ALL TIMES.
 - THE CONTRACTOR SHALL TUNNEL ALL CURB AND GUTTERS AND BORE ALL CONCRETE DRIVEWAYS AND WALKWAYS AT THE DIRECTION OF THE CITY, COUNTY, OR STATE INSPECTOR.
 - ALL AC, AND / OR CONCRETE PAVEMENT SHALL BE REPLACED AT THE DIRECTION OF THE CITY, COUNTY, OR STATE ENGINEERS.
 - ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND / OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
 - IF DAMAGE OCCURS TO THE CITY OR COUNTY FACILITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY TRAFFIC CONTROL LIGHTING, AND STREET LIGHTING.
 - AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK, NOTIFY THE POLICE TRAFFIC BUREAU AND THE FIRE DEPARTMENT.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROCESSING OF ALL APPLICATION PERMIT FORMS ALONG WITH THE REQUIRED LIABILITY INSURANCE FORMS, CLEARLY DEMONSTRATING THAT THE CITY, COUNTY OR STATE IS ALSO INSURED WITH THE REQUIRED LIABILITY INSURANCE IN THE AMOUNT OF \$1,000,000 FOR THIS CONSTRUCTION PROJECT.
 - VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER. ANY AND ALL DEVIATIONS FROM THE SPECIFIED TYPES OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER IN WRITING BEFORE INSTALLATION THEREOF.
 - ALL U.G. CONDUIT MUST BE SCHEDULE 40 OR BETTER.
 - CONDUIT REQUIREMENTS:
 UG-SCHEDULE 40 EXCEPT ALL RADIUS CONDUITS TO BE SCH. 80 RISERS-SCHEDULE 80
 ALL CONDUIT MANDRELED & EQUIPPED WITH 3/8" PULL ROPE & MEASURING TAPE
 - GROUND REQUIREMENTS:
 5/8" ROD-10' LENGTH
 #2 GROUND WIRE
 WOOD MOLDING, STAPLED EVERY 3' AND AT EACH END GROUNDS 2' FROM POLE
 - POWER REQUIREMENT FOR 3 WIRE SERVICE 120/240V
 - CONTRACTOR SHALL NOTIFY POWER COMPANY THREE DAYS PRIOR TO TRENCH EXCAVATION FOR CONDUIT INSPECTION.



1-800-227-2600
 CALL AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT
 TICKET # _____

SHEET INDEX:

TITLE SHEET	SHEET 1 OF 7
SITE PLAN	SHEET 2 OF 7
POLE PROFILE	SHEET 3 OF 7
DETAIL SHEET	SHEET 4 OF 7
DETAIL SHEET	SHEET 5 OF 7
DETAIL SHEET	SHEET 6 OF 7
DETAIL SHEET	SHEET 7 OF 7



COASTAL COMMUNICATIONS
 3355 Mission Ave Ste. 234
 Oceanside, Ca 92058
 (760) 754-9240

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

1. CALIFORNIA ADMINISTRATIVE CODE (INCL TITLES 24 & 25)	5. ANSI/DIA-222-F LIFE SAFETY CODE NEPA-101
2. 2010 CALIFORNIA BUILDING CODE WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.	6. UNIFORM PLUMBING CODE
3. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)	7. NATIONAL ELECTRIC CODE
4. UNIFORM MECHANICAL CODE	8. LOCAL BUILDING CODE
	9. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

GENERAL CONTRACTOR NOTES:

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 BE RESPONSIBLE FOR SAME.

PROJECT DESCRIPTION

NEXTG TO MOUNT WTR FUSE BOX, DISCONNECT BOX AND POWERWAVE @ 8' 0" ABOVE GROUND LEVEL. PROPOSED FIBER, PROPOSED BRACELESS ARM AT WITH PHAZAR ANTENNA ATTACHED AT END.

PROJECT MANAGER

NAME: NEXTG NETWORKS
 ADDRESS: 2125 WRIGHT AVE STE C9
 CITY, STATE, ZIP: LA VERNE, CA 91750
 CONTACT: GENE MITCHELL
 PHONE: (909) 593-9700
 EMAIL: GMITCHELL@NEXTGNETWORKS.NET

PROJECT MANAGER

NAME: HP COMMUNICATIONS INC.
 ADDRESS: 13341 TEMESCAL CANYON RD
 CITY, STATE, ZIP: CORONA, CA 92883
 CONTACT: JORGE BECERRA
 PHONE: (951) 572-1252
 EMAIL: JORGE.BECERRA@HPCOMM.COM

POWER MANAGER

NAME: NEXTG NETWORKS
 ADDRESS: 2125 WRIGHT AVE STE C9
 CITY, STATE, ZIP: LA VERNE, CA 91750
 CONTACT: JOE ARNOLD
 PHONE: (909) 593-9700
 EMAIL: JARNOLD@NEXTGNETWORKS.NET

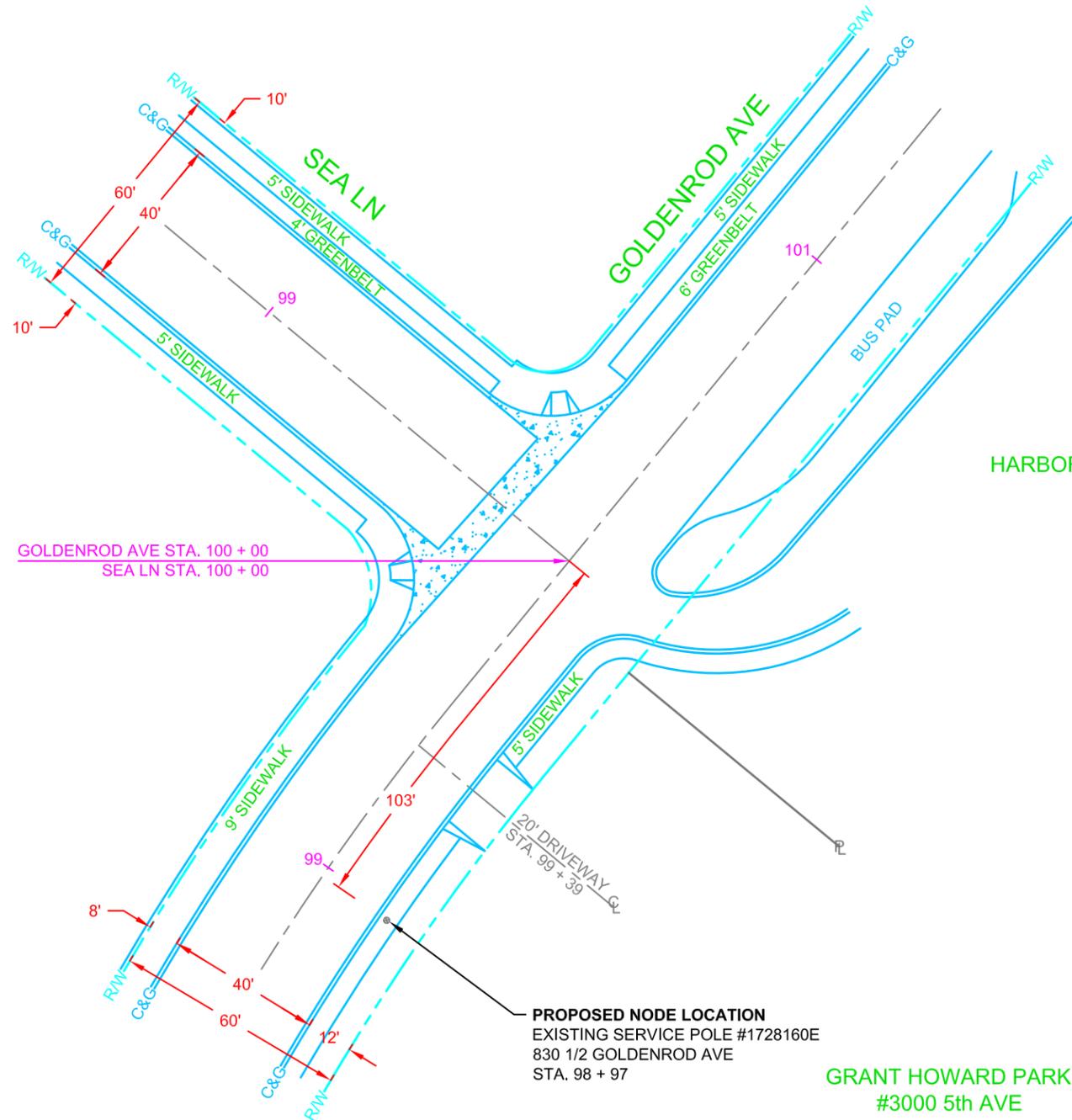
NODE ENGINEER

NAME: COASTAL COMMUNICATIONS
 ADDRESS: 3355 MISSION AVE STE. 234
 CITY, STATE, ZIP: OCEANSIDE, CA 92058
 CONTACT: TODD THREW
 PHONE: (760) 754-9240 ext. 101
 EMAIL: TODD@COASTALCOMM.COM

DESIGN TYPE: NODE DESIGN PHASE: 6
 T.B.G. MAP NO.: 919-F2
 TOTAL TRENCH FOOTAGE: NA
 ENGINEERED BY: CCI DATE: 03/26/12
 DRAFTED BY: ANTHONY RANDALL REVISED DATE: 07/20/12
 ELECTRONIC FILE NAME: MPC1032CA-SOC05m1

LATITUDE: 33.602764
 LONGITUDE: -117.870897
 HEADEND: SOUTH ORANGE COUNTY
 BASE STATION ID: NA
 CASCADE ID: NA
 SITE NO.: MPC1032CA-SOC05m1
 LOCATION: GOLDENROD AVENUE PUBLIC ROW
 WEST OF 3000 FIFTH AVE) BETWEEN SEA LN & 5th AVE)
 CITY OF NEWPORT BEACH, C A
 PLAN No.: SHEET 1 OF 7

TITLE SHEET



EQUIPMENT LEGEND

- = SERVICE POLE
- = RIGHT OF WAY
- = CENTERLINE
- = CURB & GUTTER

NORTH

SCALE 1" = 40'

DIGALERT



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UNDERGROUND SERVICE ALERT
TICKET # _____

CCI
TELECOMMUNICATIONS CONSULTANTS

COASTAL COMMUNICATIONS
3355 Mission Ave Ste. 234
Oceanside, Ca 92058
(760) 754-9240

GENERAL CONTRACTOR NOTES

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3. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)	7. NATIONAL ELECTRIC CODE
4. UNIFORM MECHANICAL CODE	8. LOCAL BUILDING CODE
	9. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

PROJECT DESCRIPTION

NEXTG TO MOUNT WTR FUSE BOX, DISCONNECT BOX AND POWERWAVE @ 8' 0" ABOVE GROUND LEVEL. PROPOSED FIBER, PROPOSED BRACELESS ARM AT WITH PHAZAR ANTENNA ATTACHED AT END.

PROJECT MANAGER

NAME: NEXTG NETWORKS
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PROJECT TEAM

POWER MANAGER

NAME: NEXTG NETWORKS
ADDRESS: 2125 WRIGHT AVE STE C9
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CONTACT: JOE ARNOLD
PHONE: (909) 593-9700
EMAIL: JARNOLD@NEXTGNETWORKS.NET

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NAME: COASTAL COMMUNICATIONS
ADDRESS: 3355 MISSION AVE STE. 234
CITY, STATE, ZIP: OCEANSIDE, CA 92058
CONTACT: TODD THREW
PHONE: (760) 754-9240 ext. 101
EMAIL: TODD@COASTALCOMMINC.COM

DESIGN TYPE: NODE DESIGN PHASE: 6

T.B.G. MAP NO.: 919-F2

TOTAL TRENCH FOOTAGE: NA

ENGINEERED BY: CCI DATE: 03/26/12

DRAFTED BY: ANTHONY RANDALL REVISED DATE: 07/20/12

ELECTRONIC FILE NAME: MPC1032CA-SOC05m1

SITE PLAN

LATITUDE: 33.602764

LONGITUDE: -117.870897

HEADEND:

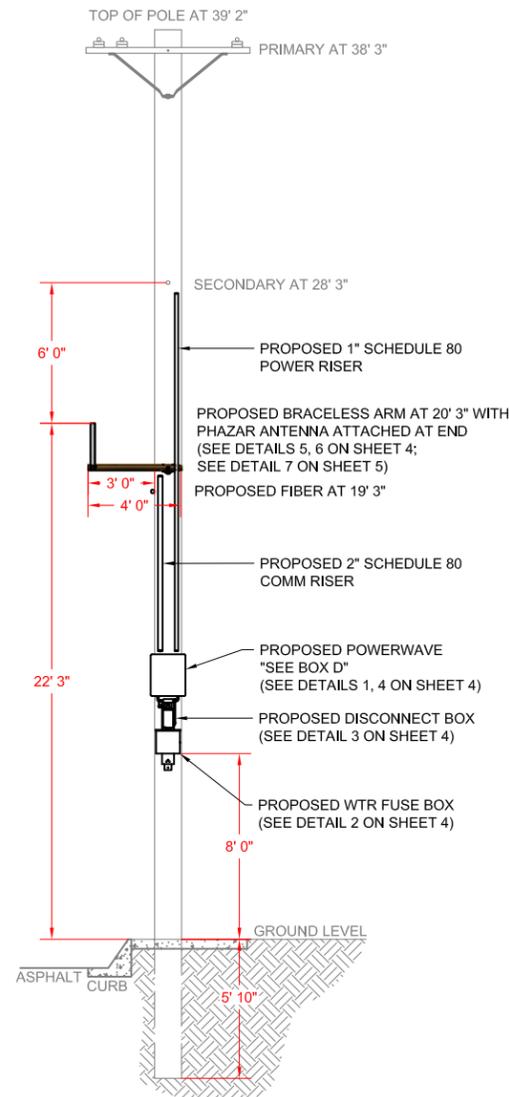
BASE STATION ID: NA

CASCADE ID: NA

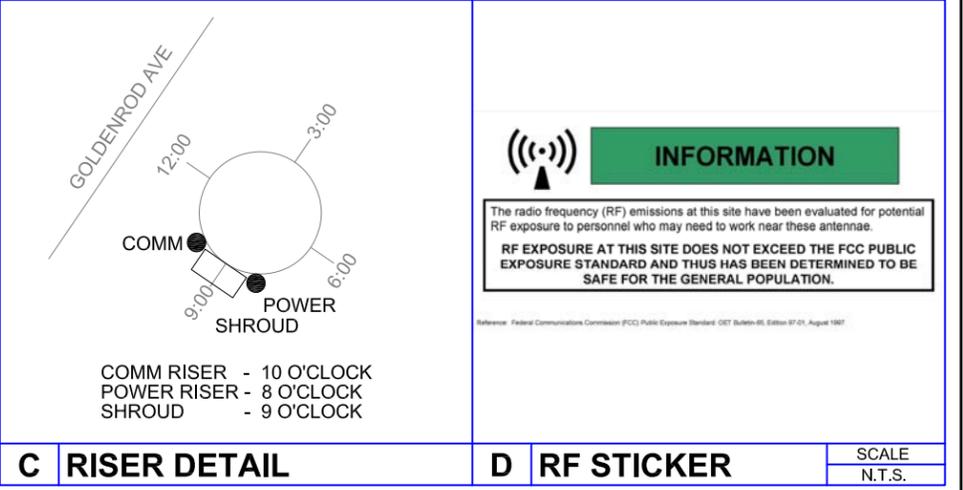
SITE NO.: MPC1032CA-SOC05m1

LOCATION: GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE) BETWEEN SEA LN & 5th AVE) CITY OF NEWPORT BEACH, C A

PLAN No.: SHEET 2 OF 7



MAKE READY	
UTILITY POLE	
NEW CONSTRUCTION	
NEXTG TO MOUNT WTR FUSE BOX, DISCONNECT BOX AND POWERWAVE (WITH RF STICKER) @ 8' 0" ABOVE GROUND LEVEL.	
PROPOSED FIBER AT 19' 3".	
PROPOSED BRACELESS ARM AT 20' 3" WITH PHAZAR ANTENNA ATTACHED AT END.	
NOTES:	
TOP OF POLE: 39' 2"	
TOP OF ANTENNA: 22' 3"	
ANTENNA TYPE: PHAZAR	
"CONSTRUCTION NOTE: ANTENNA, ION, AND WTR TO BE MOUNTED ON UTILITY POLE. NO METER PEDESTALS INSTALLED."	



A POLE #1728160E **9 O'CLOCK VIEW** SCALE N.T.S.

B DIGITAL PHOTO **11 O'CLOCK VIEW** SCALE N.T.S.

C RISER DETAIL **D RF STICKER** SCALE N.T.S.

DIGALERT

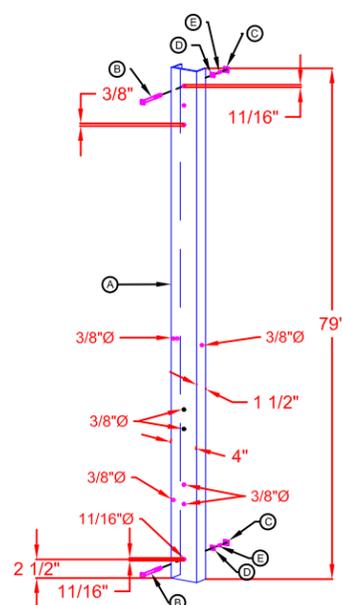
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TICKET # _____

SERVICE EQUIPMENT POLE PROFILE

<p>COASTAL COMMUNICATIONS 3355 Mission Ave Ste. 234 Oceanside, Ca 92058 (760) 754-9240</p>	<p>ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS ARE TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.</p> <table border="0"> <tr> <td>1. CALIFORNIA ADMINISTRATIVE CODE (INCL TITLES 24 & 25)</td> <td>5. ANSI/DIA-222-F LIFE SAFETY CODE NEPA-101</td> </tr> <tr> <td>2. 2010 CALIFORNIA BUILDING CODE WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.</td> <td>6. UNIFORM PLUMBING CODE</td> </tr> <tr> <td>3. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)</td> <td>7. NATIONAL ELECTRIC CODE</td> </tr> <tr> <td>4. UNIFORM MECHANICAL CODE</td> <td>8. LOCAL BUILDING CODE</td> </tr> <tr> <td></td> <td>9. CITY/COUNTY ORDINANCES</td> </tr> </table> <p style="text-align: center;">CODE COMPLIANCE</p>	1. CALIFORNIA ADMINISTRATIVE CODE (INCL TITLES 24 & 25)	5. ANSI/DIA-222-F LIFE SAFETY CODE NEPA-101	2. 2010 CALIFORNIA BUILDING CODE WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.	6. UNIFORM PLUMBING CODE	3. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)	7. NATIONAL ELECTRIC CODE	4. UNIFORM MECHANICAL CODE	8. LOCAL BUILDING CODE		9. CITY/COUNTY ORDINANCES	<p>GENERAL CONTRACTOR NOTES:</p> <p>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 BE RESPONSIBLE FOR SAME.</p>	<p>PROJECT DESCRIPTION</p> <p>NEXTG TO MOUNT WTR FUSE BOX, DISCONNECT BOX AND POWERWAVE @ 8' 0" ABOVE GROUND LEVEL. PROPOSED FIBER, PROPOSED BRACELESS ARM AT WITH PHAZAR ANTENNA ATTACHED AT END.</p>	PROJECT TEAM		<table border="0"> <tr> <td>PROJECT MANAGER</td> <td>POWER MANAGER</td> </tr> <tr> <td>NAME: NEXTG NETWORKS ADDRESS: 2125 WRIGHT AVE STE C9 CITY, STATE, ZIP: LA VERNE, CA 91750 CONTACT: GENE MITCHELL PHONE: (909) 593-9700 EMAIL: GMITCHELL@NEXTGNETWORKS.NET</td> <td>NAME: NEXTG NETWORKS ADDRESS: 2125 WRIGHT AVE STE C9 CITY, STATE, ZIP: LA VERNE, CA 91750 CONTACT: JOE ARNOLD PHONE: (909) 593-9700 EMAIL: JARNOLD@NEXTGNETWORKS.NET</td> </tr> <tr> <td>PROJECT MANAGER</td> <td>NODE ENGINEER</td> </tr> <tr> <td>NAME: HP COMMUNICATIONS INC. ADDRESS: 13341 TEMESCAL CANYON RD CITY, STATE, ZIP: CORONA, CA 92883 CONTACT: JORGE BECERRA PHONE: (951) 572-1252 EMAIL: JORGE.BECERRA@HPCOMMINC.COM</td> <td>NAME: COASTAL COMMUNICATIONS ADDRESS: 3355 MISSION AVE STE. 234 CITY, STATE, ZIP: OCEANSIDE, CA 92058 CONTACT: TODD THREW PHONE: (760) 754-9240 ext. 101 EMAIL: TODD@COASTALCOMMINC.COM</td> </tr> </table>	PROJECT MANAGER	POWER MANAGER	NAME: NEXTG NETWORKS ADDRESS: 2125 WRIGHT AVE STE C9 CITY, STATE, ZIP: LA VERNE, CA 91750 CONTACT: GENE MITCHELL PHONE: (909) 593-9700 EMAIL: GMITCHELL@NEXTGNETWORKS.NET	NAME: NEXTG NETWORKS ADDRESS: 2125 WRIGHT AVE STE C9 CITY, STATE, ZIP: LA VERNE, CA 91750 CONTACT: JOE ARNOLD PHONE: (909) 593-9700 EMAIL: JARNOLD@NEXTGNETWORKS.NET	PROJECT MANAGER	NODE ENGINEER	NAME: HP COMMUNICATIONS INC. ADDRESS: 13341 TEMESCAL CANYON RD CITY, STATE, ZIP: CORONA, CA 92883 CONTACT: JORGE BECERRA PHONE: (951) 572-1252 EMAIL: JORGE.BECERRA@HPCOMMINC.COM	NAME: COASTAL COMMUNICATIONS ADDRESS: 3355 MISSION AVE STE. 234 CITY, STATE, ZIP: OCEANSIDE, CA 92058 CONTACT: TODD THREW PHONE: (760) 754-9240 ext. 101 EMAIL: TODD@COASTALCOMMINC.COM	<table border="0"> <tr> <td>DESIGN TYPE: NODE DESIGN</td> <td>PHASE: 6</td> <td>LATITUDE: 33.602764</td> </tr> <tr> <td>T.B.G. MAP NO.: 919-F2</td> <td></td> <td>LONGITUDE: -117.870897</td> </tr> <tr> <td>TOTAL TRENCH FOOTAGE: NA</td> <td></td> <td>HEADEND:</td> </tr> <tr> <td>ENGINEERED BY: CCI</td> <td>DATE: 03/26/12</td> <td>BASE STATION ID: NA</td> </tr> <tr> <td>DRAFTED BY: ANTHONY RANDALL</td> <td>REVISED DATE: 07/20/12</td> <td>CASCADE ID: NA</td> </tr> <tr> <td colspan="2">ELECTRONIC FILE NAME: MPC1032CA-SOC05m1</td> <td>SITE NO.: MPC1032CA-SOC05m1</td> </tr> <tr> <td colspan="2" rowspan="2" style="text-align: center;">POLE PROFILE</td> <td>LOCATION: GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE) BETWEEN SEA LN & 5th AVE) CITY OF NEWPORT BEACH, C A</td> </tr> <tr> <td>PLAN No.: SHEET 3 OF 7</td> </tr> </table>	DESIGN TYPE: NODE DESIGN	PHASE: 6	LATITUDE: 33.602764	T.B.G. MAP NO.: 919-F2		LONGITUDE: -117.870897	TOTAL TRENCH FOOTAGE: NA		HEADEND:	ENGINEERED BY: CCI	DATE: 03/26/12	BASE STATION ID: NA	DRAFTED BY: ANTHONY RANDALL	REVISED DATE: 07/20/12	CASCADE ID: NA	ELECTRONIC FILE NAME: MPC1032CA-SOC05m1		SITE NO.: MPC1032CA-SOC05m1	POLE PROFILE		LOCATION: GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE) BETWEEN SEA LN & 5th AVE) CITY OF NEWPORT BEACH, C A	PLAN No.: SHEET 3 OF 7
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POLE MOUNTING BACK PLATE

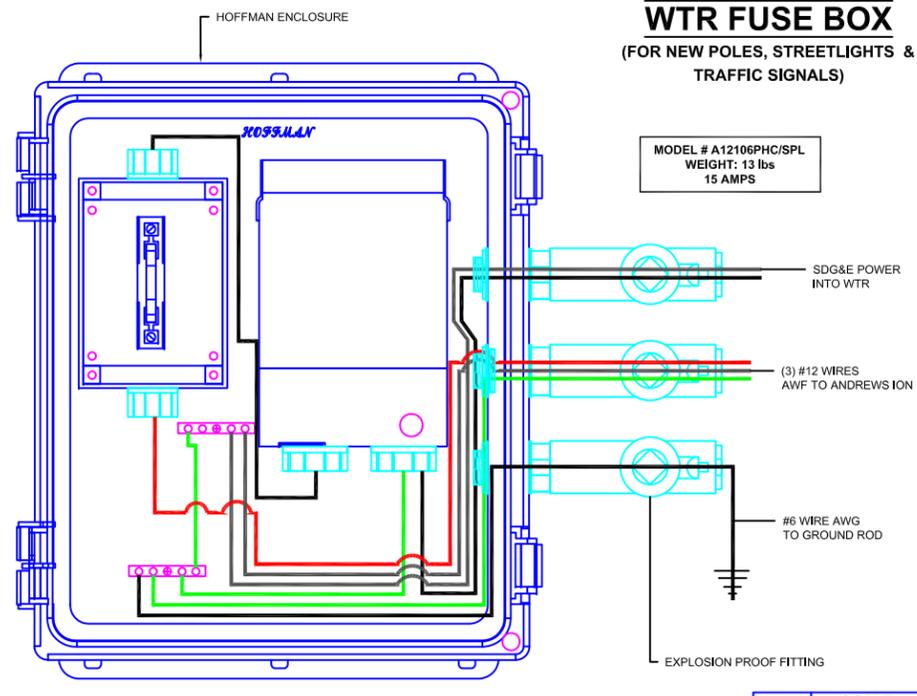


PART LIST		
CALL OUT	QTY	DESCRIPTION
A	1	MOUNTING PLATE 79" L X 4" W X 1.5D" D
B	2	MACHINE BOLT 16" X 5/8"
C	2	SQUARE NUT 5/8"
D	2	FLAT SQUARE WASHER 4 1/2" X 4 1/2"
E	2	DOUBLE COIL SPRING WASHER

1 SCALE N.T.S.

WTR FUSE BOX

(FOR NEW POLES, STREETLIGHTS & TRAFFIC SIGNALS)

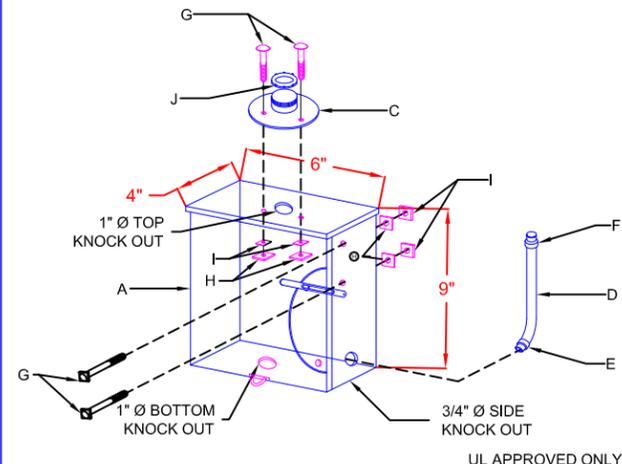


MODEL # A12106PHC/SPL
WEIGHT: 13 lbs
15 AMPS

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

2 SCALE N.T.S.

DISCONNECT BOX

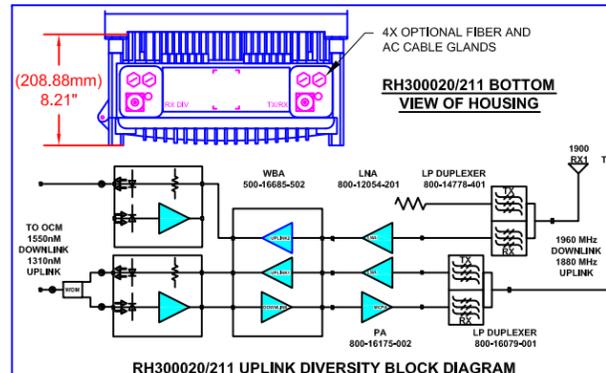


- NOTES:
1. MAIN DISCONNECT BREAKER.
 2. MANUFACTURER SQUARE D - (OR EQUIVALENT).
 3. BREAKER SIZE AND INCIDENTAL WIRING SPECIFIED BY CLIENT.
 4. KAIC SPECIFIED BY POWER COMPANY.
 5. 1" CLOSE NIPPLE FOR FEED FROM POWER SOURCE.
 6. 3/4" LIQUID FLEX TO TRANSCEIVER.
 7. CABINET LOCKABLE FOR CLIENT ONLY

3 SCALE N.T.S.

POWERWAVE

(WIDEBAND COVERAGE SYSTEM :
MODEL RH300020/101 / RH300020/211 / RH300020/102)



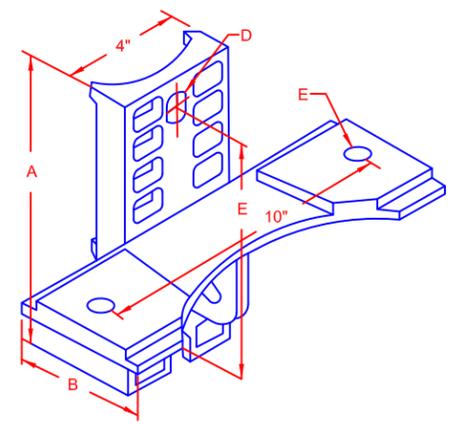
TECHNICAL SPECIFICATIONS																	
ELECTRICAL DATA	<p>FREQUENCY RANGE UPLINK: 1850 - 1915 MHz</p> <p>FREQUENCY RANGE DOWNLINK: 1930 - 1995 MHz</p> <p>FIBER LINK BUDGET: 10 dB</p> <p>GAIN ADJUSTMENT RANGE (1 dB STEPS): 25 dB</p> <p>GAIN STEP RESOLUTION: 1 dB</p> <p>OUTPUT POWER (COMPOSITE PER BAND): +43 dBm</p> <p>OUTPUT POWER DL (dBm/CARRIER): # cARRIERS</p> <table border="1"> <tr> <td>TDMA</td> <td>GSM</td> <td>CDMA</td> <td>WCDMA</td> </tr> <tr> <td>4</td> <td>37</td> <td>37</td> <td>37</td> </tr> <tr> <td>8</td> <td>34</td> <td>34</td> <td>34</td> </tr> <tr> <td>16</td> <td>32</td> <td>32</td> <td>n/a</td> </tr> </table>	TDMA	GSM	CDMA	WCDMA	4	37	37	37	8	34	34	34	16	32	32	n/a
TDMA	GSM	CDMA	WCDMA														
4	37	37	37														
8	34	34	34														
16	32	32	n/a														
ALARM	LED AND BY REMOTE CONTROL																
POWER SUPPLY OPTIONS	115/230 VACOR 24/48 VDC																
POWER CONSUMPTION	210W TYPICAL																
MECHANICAL DATA	<p>SIZE, WxHxD: 465 x 531 x 208mm (18 x 20.9 x 8.2 in.)</p> <p>WEIGHT: SINGLE BAND IS <25 kg (55 lbs.)</p> <p>RF CONNECTORS: 7/16 DIN FEMALE</p> <p>TEMPERATURE RANGE: -25°C TO +55°C</p> <p>INGRESSION PROTECTION: IP65 / NEMA 4</p>																
ENVIRONMENTAL DATA																	
APPROVALS AND TEST	<p>SAFETY: EN 60950, ETL</p> <p>ENVIRONMENT: ETS 300 019 2, 2.4E</p> <p>EMC: ETS 300 489-1</p> <p>RADIO: FCC PART 24, FCC PART 22</p>																

4 SCALE N.T.S.

CROSSARM SHELF GAIN

(Model #PG84XE12)

Crossarm Shelf Gain provides a strong stable connection to the pole and reduces the need for braces. Dead ending of guying located directly under the arm. Steel arms can be bolted to shelf.



PRODUCT SPECIFICATIONS	
Product Group	Gain, Crossarm
Product Type	Shelf
Mounting Bolt	Two 3/4"
Pole Diameter	4" Channel
Shape	Shelf Gain, Not Applicable
Type of Back	Shelf Gain, Not Applicable
Product Finish	Galvanized
Material	Ductile Iron per ASTM A-537
Return Type	Non-Standard
UPC Code	09635905015
Standard Package	5
Unit of Measure	EA
Min Order Qty	5
Pallet Quantity	80
Weight / Ea.	10.045 lbs

COMPRESSED PRODUCT NUMBER
PG84XE12

5 SCALE N.T.S.

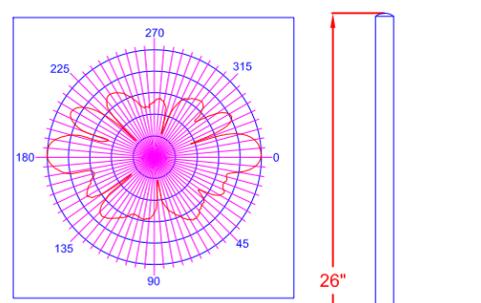
E1710 - 2155 MHz OMNI-DIRECTIONAL ANTENNA

- RUGGED, FIBERGLASS RADOME
- FREQUENCY COVERAGE FOR ENTIRE AWS BAND

MODEL AWS360-1710-7-T0-N

ELECTRICAL SPECIFICATIONS	
FREQUENCY RANGE	1710-2155MHz
VSWR	1.7:1 VSWR MAX
FORWARD GAIN	7 dBi
POLARIZATION	VERTICAL
MAXIMUM POWER INPUT	200 WATTS
INPUT IMPEDANCE	50 ohms
VERTICAL -3dB BEAMWIDTH	16" +/- (NOMINAL)
HORIZONTAL -3dB BEAMWIDTH	360°
AZIMUTH RIPPLE	+/- .5 dB
ELECTRICAL DOWNTILT	2 AND 4" (T2 AND T4 FOR PART NUMBER)

PHAZAR OMNI ANTENNA



MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

CONNECTOR	TYPE 'N' MALE OR 716 DIN
MOUNTING	SIDE MOUNT; CLAMPS PROVIDED
DIMENSION AND WEIGHT	26 INCHES X 2.0 INCH O.D. / < 10 lbs.
COLOR	WHITE STANDARD (COLOR OPTIONS AVAILABLE)
WIND SURVIVAL	120 MPH
LIGHTNING PROTECTION	DIRECT GROUND

6 SCALE N.T.S.

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PROJECT DESCRIPTION:

NEXTG TO MOUNT WTR FUSE BOX, DISCONNECT BOX AND POWERWAVE @ 8' 0" ABOVE GROUND LEVEL. PROPOSED FIBER, PROPOSED BRACELESS ARM AT WITH PHAZAR ANTENNA ATTACHED AT END.

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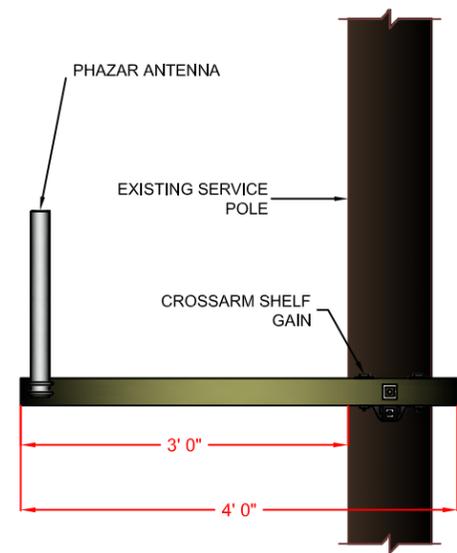
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		PLAN No.:
		SHEET 4 OF 7

DETAIL SHEET

**CROSSARM SHELF GAIN
WITH PHAZAR ANTENNA
(ASSEMBLY DETAIL)**



7	SCALE
	N.T.S.



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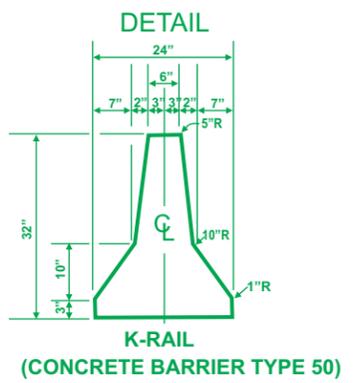
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PLAN No.:

SIGNS

	C9A(CA)		R3-4		W3-4
	C30(CA)		R3-18		W4-2(RT)
	C30A(CA)		R4-7a		W11-1
	C30(BIKE)		R9-3A		W13-1
	C12(CA)		R5-1		W16-1
	C21		R5-1A		W20-1
	C24(CA)		R9-9		W20-2
	C27(CA)		R9-11		W20-4
	G20-2		R9-11a		W20-5(BIKE)
	M4-10		R9-10		W20-5(LT)
	SC 3		R11-2		W20-5(RT)
	R3-1		R11-4		W21-5
	R3-2		W1-3(LT)		
			W1-4(LT)		
			W1-4(RT)		



SIGNAGE NOTES

- AT LEAST ONE PERSON SHALL BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON ALL NIGHT LANE CLOSURES.
- ALL WARNING SIGNS FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED OR REFLECTORIZED AS SPECIFIED IN THE SPECIFICATIONS.
- ALL ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES OF ALL MAJOR AND PRIME ARTERIALS. FLASHING BEACONS SHALL BE USED DURING NIGHT LANE CLOSURES.
- A G20-2 "END ROAD WORK" SIGN SHALL BE PLACED AT THE END OF THE LANE CLOSURE UNLESS THE END OF THE WORK AREA IS OBVIOUS, OR ENDS WITHIN A LARGER PROJECT LIMITS.
- ALL CONES USED FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED TRAFFIC CONES OR FITTED WITH 13" REFLECTIVE SLEEVES.
- FLASHING ARROW SIGNS SHALL BE USED PER FHWA MUTCD 2007 EDITION AS AMENDED BY THE MUTCD 2007 CALIFORNIA SUPPLEMENT. SILENT TYPE SHALL BE USED IN RESIDENTIAL AREAS.
- THE MAXIMUM SPACING BETWEEN CONES IN A TAPER OR A TANGENT SHALL BE APPROXIMATELY AS SHOWN IN TABLE 1.
- ADDITIONAL ADVANCE FLAGGERS SHALL BE REQUIRED WHEN TRAFFIC QUEUES DEVELOP. FLAGGER STATIONS FOR WORK AT NIGHT SHALL BE ILLUMINATED AS NOTED IN SECTION 6G.20 OF THE MUTCD.
- PLACE C30 (CA) "LANE CLOSED" SIGN AT 500'-1000' INTERVALS THROUGHOUT EXTENDED WORK AREAS.
- ALL REQUIRED SIGNS THAT ARE TO BE LEFT IN PLACE OVER A WEEKEND OR HOLIDAY SHALL BE POSTED MOUNTED.
- CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL MEET THE PROVISIONS OF SECTION 12 OF THE MOST RECENT EDITION OF THE CALTRANS STANDARD SPECIFICATIONS.

TRAFFIC CONTROL NOTES

- WORK TO BE RESTRICTED TO _____ TO _____ UNLESS APPROVED OTHERWISE.
- PEDESTRIAN CONTROLS WILL BE PROVIDED AS SHOWN.
- PEDESTRIANS SHALL BE PROTECTED FROM ENTERING THE EXCAVATION BY PHYSICAL BARRIERS DESIGNED, INSTALLED, AND MAINTAINED TO THE SATISFACTION OF THE CITY ENGINEER.
- TEMPORARY "NO PARKING/TOW AWAY" SIGNS STATING THE DATE AND TIME OF PROHIBITION WILL BE POSTED 72 HOURS PRIOR TO COMMENCING WORK. CALL POLICE DISPATCH TO VALIDATE POSTING.
- ACCESS WILL BE MAINTAINED TO ALL DRIVEWAYS UNLESS OTHER ARRANGEMENTS ARE MADE.
- TRENCHES MUST BE BACKFILLED OR PLATED DURING NON-WORKING HOURS UNLESS K-RAIL BARRIERS ARE PROVIDED. K-RAIL IS APPROVED ONLY WHEN SPECIFICALLY SHOWN ON THE APPROVED TRAFFIC CONTROL PLAN. PLATES SHALL HAVE CLEATS AND COLD MIX AT THE EDGES AS APPROVED BY THE CITY INSPECTOR.
- STRIPING WILL BE REPLACED BY THE CONTRACTOR WITHIN 24 HOURS, IF REMOVED OR DAMAGED.
- WORK THAT DISTURBS NORMAL TRAFFIC SIGNAL TIMING OPERATIONS SHALL BE COORDINATED WITH CITY OF NEWPORT BEACH.
- TRAFFIC SIGNALS SHALL REMAIN FULLY ACTUATED AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER OR HIS REPRESENTATIVE. IF TRAFFIC SIGNAL LOOP DETECTORS ARE RENDERED INOPERATIVE BY THE PROPOSED WORK, VIDEO DETECTION SHALL BE USED TO PROVIDE ACTUATION.
- FLAGGERS SHALL BE EQUIPPED WITH A WHITE HARD HAT, AN ORANGE VEST, AND A "STOP/SLOW" PADDLE ON A 5 FOOT STAFF.
- ALL TRAFFIC CONTROL DEVICES MUST BE MAINTAINED 24 HOURS A DAY, 7 DAYS PER WEEK, BY THE COORDINATOR.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH MANUAL) 2009 ELEVENTH EDITION OF THE AMERICAN PUBLIC WORKS ASSOCIATION SOUTHERN CALIFORNIA CHAPTER.
- TRAFFIC CONTROL PLAN SUBMITTALS ARE REQUIRED FOR EACH PHASE OF THE WORK IN THE DETAIL, FORMAT, AND QUALITY ILLUSTRATED ON THIS SHEET.
- ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM VIEW OR COVERED WHEN NOT IN USE.
- THE CITY ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO INSURE PUBLIC SAFETY.
- ALL WORK AFFECTING BUS STOPS SHALL BE COORDINATED WITH LOCAL TRANSIT DISTRICT. CONTRACTOR SHALL CALL TRANSIT AT LEAST 72 HOURS IN ADVANCE OF STARTING WORK.
- CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF TRAFFIC CONTROL ON MAJOR AND PRIME ARTERIALS, UNLESS OTHERWISE APPROVED. THESE SIGNS SHALL BE SHOWN ON THE TRAFFIC CONTROL PLAN.

MINIMUM RECOMMENDED CHANNELIZER AND SIGN SPACING ⁽¹⁾

SPEED "S" MPH ⁽²⁾	DIMENSION A SIGN SPACING		DIMENSION B MINIMUM MERGING TAPER L		DIMENSION C MINIMUM SHIFTING TAPER 1/2 L		DIMENSION D MINIMUM SHOULDER TAPER 1/3 L		DIMENSION E BUFFER SPACE ⁽⁴⁾		MAXIMUM CHANNELIZER SPACING TAPER ⁽³⁾		MAXIMUM CHANNELIZER SPACING TANGENT ⁽³⁾	
	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)
25	125	(40)	125	(40)	63	(20)	42	(13)	158	(48)	25	(8)	50	(15)
30	180	(60)	180	(60)	90	(30)	60	(20)	205	(62)	30	(9)	60	(18)
35	245	(75)	245	(75)	123	(35)	82	(25)	257	(80)	35	(11)	70	(22)
40	320	(100)	320	(100)	160	(50)	107	(35)	315	(100)	40	(13)	80	(25)
45	540	(165)	540	(165)	270	(80)	180	(55)	378	(115)	48	(15)	98	(30)
50	600	(180)	600	(180)	300	(90)	200	(60)	446	(130)	48	(15)	98	(30)
55	660	(200)	660	(200)	330	(100)	220	(65)	520	(165)	48	(15)	98	(30)
60	720	(220)	720	(220)	360	(110)	240	(75)	596	(180)	48	(15)	98	(30)
65	780	(240)	780	(240)	390	(120)	260	(80)	682	(210)	48	(15)	98	(30)
Local Agency Freeways	1000	(300)	1000	(300)	500	(150)	330	(100)	1000	(300)	48	(15)	98	(30)
Pedestrians	N/A	N/A	20	(6)	15	(3)	6	(2)	N/A	N/A	3	(1)	6	(2)
Bicyclists	Use Roadway Sign Spacing		75	(25)	38	(12)	25	(8)	N/A	N/A	12	(4)	25	(8)

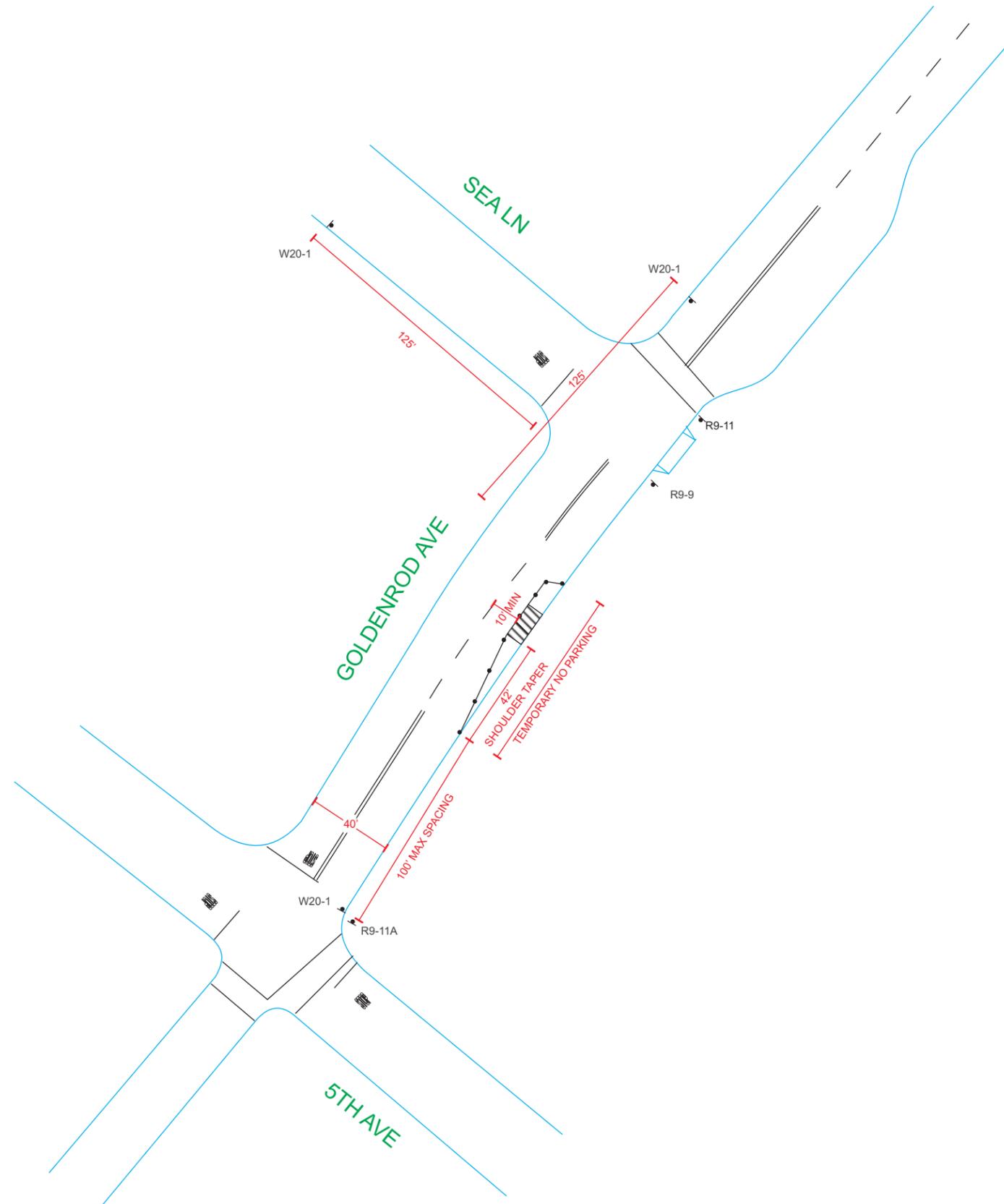
- Refer to specific State requirements for work on State Freeways and State Highways.
- Posted Speed or observed operating speed (whichever is greater).
- Channelizer spacing shall be reduced in half at areas where work is taking place, on curves, or areas on head-on conflict.
- Buffer space may be inserted in low speed urban areas, should be inserted in high speed urban and rural areas, and shall be inserted in Local Agency Freeways. Buffer space, when inserted, should be increased on down grades and should be kept clear of equipment and materials, except for a Shadow Vehicle.

LEGEND

	DIRECTION OF TRAVEL		PORTABLE FLASHING BEACON (SEE SIGNAGE NOTE #3)
	PORTABLE SIGN		K-RAIL (TYPE 50 CONCRETE BARRIER)
	TRAFFIC CONE/DELINEATOR		CHANGEABLE MESSAGE SIGN
	TYPE II BARRICADE		FLASHING ARROW SIGN
	FLAGGER		WORK AREA
	FLAG TREE		

	TRAFFIC CONTROL PLANS FOR:	
	MPC1032CA-SOC05m1 POLE #1728160E GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE (BETWEEN SEA LN & 5TH AVE) CITY OF NEWPORT BEACH, CA	
CITY OF NEWPORT BEACH, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT		
DRAWN BY: COASTAL COMMUNICATIONS, INC. 3355 MISSION AVE, SUITE 234 OCEANSIDE, CA 92058		TELE: (760) 754-9240 FAX: (760) 754-9299
FOR CITY ENGINEER _____ DATE _____		DRAFTED BY: RUDY RINCÓN T.B. PAGE: 919-F2 DATE: 7/20/2012
DESCRIPTION BY APPROVED DATE FILMED ORIGINAL CCI	GENE MITCHELL CONSTRUCTION SUPERVISOR	
AS-BUILTS	MPC1032CA-SOC05m1 830 GOLDENROD AVE FILE NAME	
CONTRACTOR _____	DATE STARTED _____	6 OF 7
INSPECTOR _____	DATE COMPLETED _____	

NOTE: W20-1 & G20-2 SHALL BE PLACED ON AFFECTED CROSS STREETS ACCORDING TO THE SPEED LIMIT OF THE CROSS STREET



	TRAFFIC CONTROL PLANS FOR: MPC1032CA-SOC05m1 POLE #1728160E GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE (BETWEEN SEA LN & 5TH AVE) CITY OF NEWPORT BEACH, CA																	
	CITY OF NEWPORT BEACH, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT																	
DRAWN BY: COASTAL COMMUNICATIONS, INC. 3395 MISSION AVE, SUITE 234 OCEANSIDE, CA 92058		TELE: (760) 754-9240 FAX: (760) 754-9299	DRAFTED BY: RUDY RINCON T.B. PAGE: 919-F2 DATE: 7 / 20 / 2012															
FOR CITY ENGINEER _____ DATE _____	<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FILMED</th> </tr> </thead> <tbody> <tr> <td>ORIGINAL</td> <td>CCI</td> <td></td> <td></td> <td></td> </tr> <tr> <td>AS-BUILTS</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			DESCRIPTION	BY	APPROVED	DATE	FILMED	ORIGINAL	CCI				AS-BUILTS				
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CONTRACTOR _____ DATE STARTED _____ INSPECTOR _____ DATE COMPLETED _____		GENE MITCHELL CONSTRUCTION SUPERVISOR MPC1032CA-SOC05m1 830 GOLDENROD AVE FILENAME 7 OF 7																

Attachment No. CD 4

Project Plans

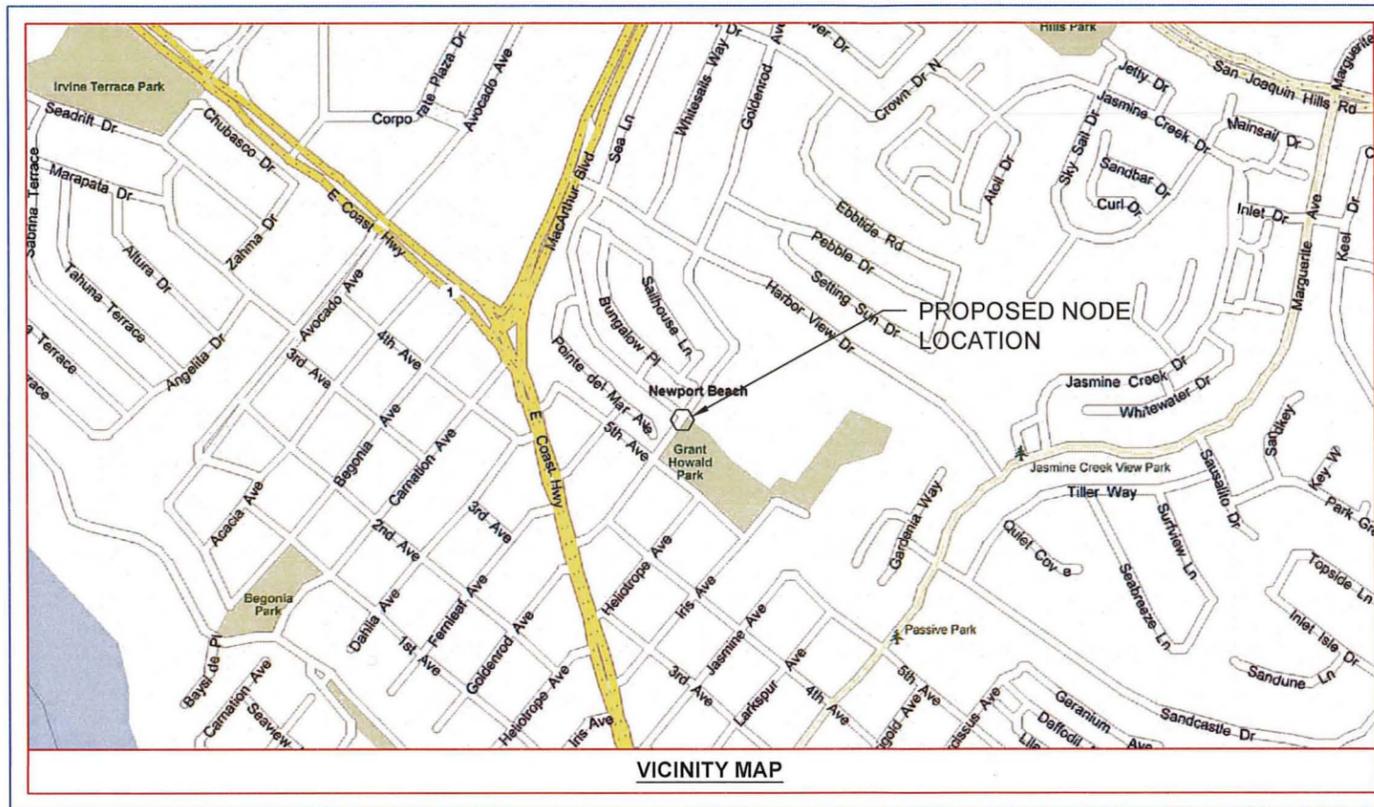
MPC1032CA-SOC05m1

POLE #1728160E

GOLDENROD AVENUE PUBLIC ROW

WEST OF 3000 FIFTH AVE (BETWEEN SEA LN & 5th AVE)

CITY OF NEWPORT BEACH, CA



VICINITY MAP

SHEET INDEX:

TITLE SHEET	SHEET 1 OF 6
SITE PLAN	SHEET 2 OF 6
POLE PROFILE	SHEET 3 OF 6
DETAIL SHEET	SHEET 4 OF 6
TRAFFIC CONTROL COVERSHEET	SHEET 5 OF 6
TRAFFIC CONTROL	SHEET 6 OF 6



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300 Spectrum Center Drive, Suite 1200
Irvine, CA 926184
www.crowncastle.com

GENERAL NOTES

- INDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES. THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNITY AND HOLD REPRESENTATIVES, AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT
- PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, THE CONTRACTOR SHALL FULLY COMPLY WITH "CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH" ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF GO 95, 128, AND THE STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", AS ADOPTED BY THE CITY, COUNTY, OR STATE AS MODIFIED BY STANDARDS PLANS AND ADDENDUMS.
- THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCIES FACILITIES AS SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OR WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY, OR STATE ENGINEER INSPECTION DEPARTMENT, AT LEAST TWO DAYS BEFORE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
- ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WORK AREA TRAFFIC CONTROL HANDBOOK AND SPECIFICATIONS FROM THE CITY, COUNTY OR STATE
- THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THE FINISHED GRADE AT ALL TIMES.
- THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 24 INCHES TO THE FINISHED GRADE AT ALL TIMES.
- THE CONTRACTOR SHALL TUNNEL ALL CURB AND GUTTERS AND BORE ALL CONCRETE DRIVEWAYS AND WALKWAYS AT THE DIRECTION OF THE CITY, COUNTY, OR STATE INSPECTOR.
- ALL AC, AND / OR CONCRETE PAVEMENT SHALL BE REPLACED AT THE DIRECTION OF THE CITY, COUNTY, OR STATE ENGINEERS.
- ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND / OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- IF DAMAGE OCCURS TO THE CITY OR COUNTY FACILITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY TRAFFIC CONTROL LIGHTING, AND STREET LIGHTING.
- AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK, NOTIFY THE POLICE TRAFFIC BUREAU AND THE FIRE DEPARTMENT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROCESSING OF ALL APPLICATION PERMIT FORMS ALONG WITH THE REQUIRED LIABILITY INSURANCE FORMS, CLEARLY DEMONSTRATING THAT THE CITY, COUNTY OR STATE IS ALSO INSURED WITH THE REQUIRED LIABILITY INSURANCE IN THE AMOUNT OF \$1,000,000 FOR THIS CONSTRUCTION PROJECT.
- VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER. ANY AND ALL DEVIATIONS FROM THE SPECIFIED TYPES OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER IN WRITING BEFORE INSTALLATION THEREOF.
- ALL U.G. CONDUIT MUST BE SCHEDULE 40 OR BETTER.
- CONDUIT REQUIREMENTS:
UG-SCHEDULE 40 EXCEPT ALL RADIUS CONDUITS TO BE SCH. 80 RISERS-SCHEDULE 80
ALL CONDUIT MANDRELED & EQUIPPED WITH 3/8" PULL ROPE & MEASURING TAPE
- GROUND REQUIREMENTS:
5/8" ROD-10' LENGTH
#2 GROUND WIRE
WOOD MOLDING, STAPLED EVERY 3' AND AT EACH END GROUNDS 2' FROM POLE
POWER REQUIREMENT FOR 3 WIRE SERVICE 120/240V
- CONTRACTOR SHALL NOTIFY POWER COMPANY THREE DAYS PRIOR TO TRENCH EXCAVATION FOR CONDUIT INSPECTION.

REV	DATE	DESCRIPTION	BY



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

1. CALIFORNIA ADMINISTRATIVE CODE (INCL TITLES 24 & 25)	5. ANSI/DIA-222-F LIFE SAFETY CODE NEPA-101
2. 2010 CALIFORNIA BUILDING CODE WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.	6. UNIFORM PLUMBING CODE
3. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)	7. NATIONAL ELECTRIC CODE
4. UNIFORM MECHANICAL CODE	8. LOCAL BUILDING CODE
	9. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

GENERAL CONTRACTOR NOTES

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 BE RESPONSIBLE FOR SAME.

PROJECT SUMMARY

CROWN CASTLE TO INSTALL THE FOLLOWING:

- SMALL CELL ANTENNA AND ITS ANCILLARY EQUIPMENT ON UTILITY POLE.

PROJECT MANAGER

NAME: CROWN CASTLE NG WEST LLC
ADDRESS: 300 SPECTRUM CENTER DR, STE. 1200
CITY, STATE, ZIP: IRVINE, CA 92618
CONTACT: GENE MITCHELL
PHONE: (408) 468-5400
EMAIL: GENE.MITCHELL@CROWNCastle.COM

PROJECT MANAGER

NAME: HP COMMUNICATIONS INC.
ADDRESS: 13341 TEMESCAL CANYON RD
CITY, STATE, ZIP: CORONA, CA 92883
CONTACT: JORGE BECERRA
PHONE: (951) 572-1252
EMAIL: JORGE.BECERRA@HPCOMMINC.COM

POWER MANAGER

NAME: CROWN CASTLE NG WEST LLC
ADDRESS: 300 SPECTRUM CENTER DR, STE. 1200
CITY, STATE, ZIP: IRVINE, CA 92618
CONTACT: JOE ARNOLD
PHONE: (408) 468-5400
EMAIL: JOE.ARNOLD@CROWNCastle.COM

NODE ENGINEER

NAME: COASTAL COMMUNICATIONS
ADDRESS: 5841 EDISON PL, STE. 110
CITY, STATE, ZIP: CARLSBAD, CA 92008
CONTACT: TODD THREW
PHONE: (760) 929-0910 EXT. 101
EMAIL: TODD@COASTALCOMMINC.COM

DESIGN TYPE: NODE DESIGN PHASE: 6

T.B.G. MAP NO.: 919-F2

TOTAL TRENCH FOOTAGE: NA

ENGINEERED BY: CCI DATE: 03/26/12

DRAFTED BY: ANTHONY RANDALL REVISED DATE: 07/20/12

ELECTRONIC FILE NAME: MPC1032CA-SOC05m1

TITLE SHEET

LATITUDE: 33.602764

LONGITUDE: -117.870897

HEADEND: SOUTH ORANGE COUNTY

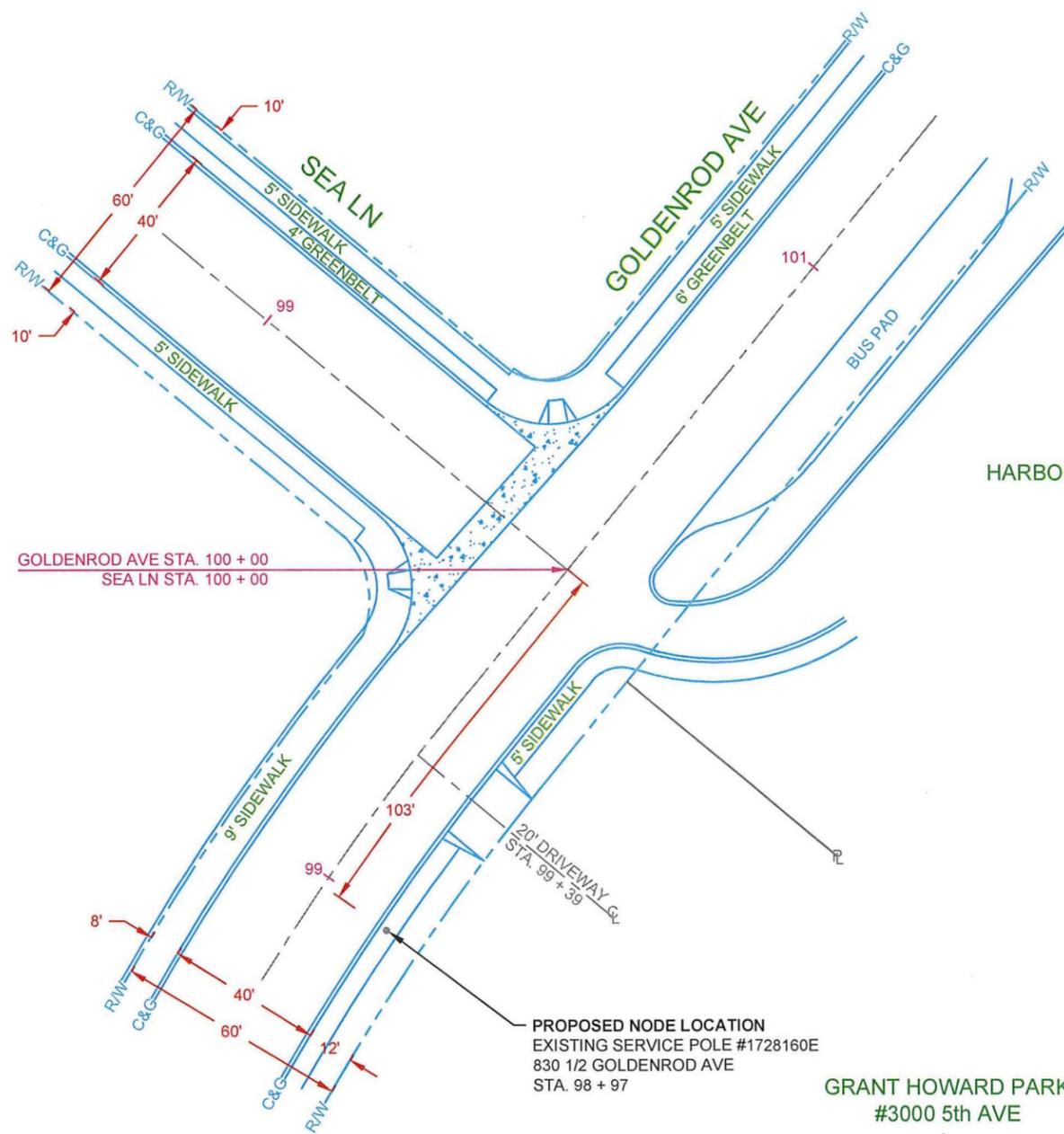
BASE STATION ID: NA

CASCADE ID: NA

SITE NO.: MPC1032CA-SOC05m1

LOCATION: GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE) BETWEEN SEA LN & 5th AVE) CITY OF NEWPORT BEACH, CA

PLAN No.: SHEET 1 OF 6



EQUIPMENT LEGEND

- ⊗ = SERVICE POLE
- RW = RIGHT OF WAY
- C = CENTERLINE
- C&G = CURB & GUTTER

NORTH

SCALE 1" = 40'

DIGALERT



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Coastal Communications
Telecommunications Engineering
5841 EDISON PLACE, STE. 110
CARLSBAD, CA 92008
PH: (760) 929-0910
FX: (760) 929-0936

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DESIGN TYPE: NODE DESIGN PHASE: 6

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TOTAL TRENCH FOOTAGE: NA

ENGINEERED BY: CCI DATE: 03/26/12

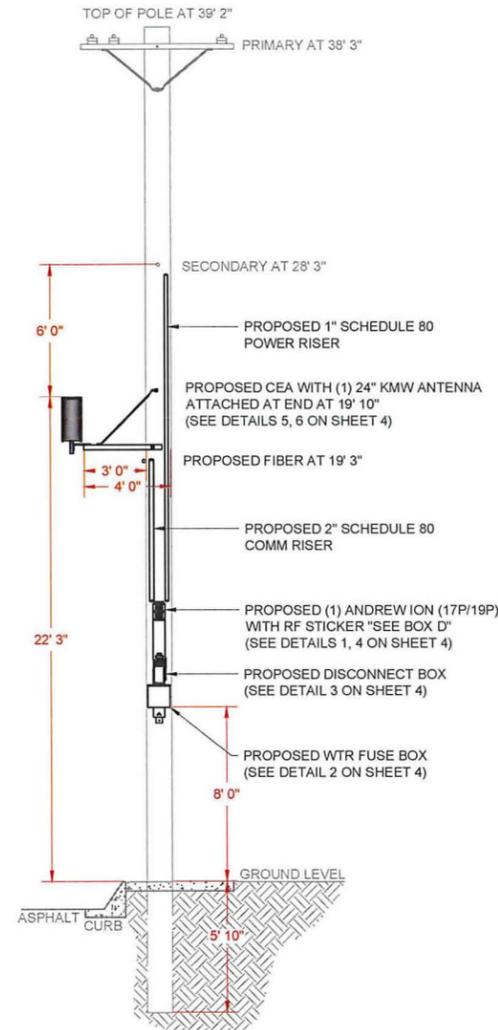
DRAFTED BY: ANTHONY RANDALL REVISED DATE: 07/20/12

ELECTRONIC FILE NAME: MPC1032CA-SOC05m1

SITE PLAN

LATITUDE:	33.602764
LONGITUDE:	-117.870897
HEADEND:	
BASE STATION ID:	NA
CASCADE ID:	NA
SITE NO.:	MPC1032CA-SOC05m1
LOCATION:	GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE) BETWEEN SEA LN & 5th AVE) CITY OF NEWPORT BEACH, C A
PLAN No.:	SHEET 2 OF 6

EQUIPMENT TO BE PAINTED TO BLEND WITH UNDERLYING WOOD POLE.



A POLE #1728160E 9 O'CLOCK VIEW SCALE N.T.S.



B DIGITAL PHOTO 11 O'CLOCK VIEW SCALE N.T.S.

MAKE READY

UTILITY POLE

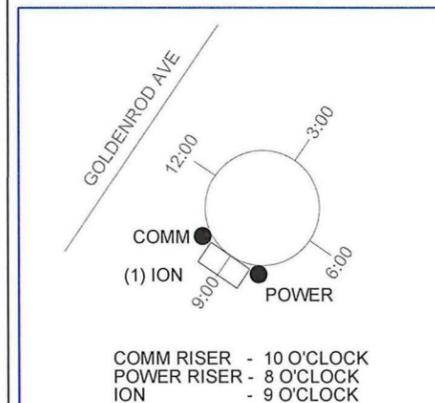
NEW CONSTRUCTION

- CROWN CASTLE TO MOUNT WTR FUSE BOX, DISCONNECT BOX AND (1) ANDREW ION (WITH RF STICKER) AT 8' 0" ABOVE GROUND LEVEL.
- PROPOSED CEA WITH (1) 24" KMW ANTENNA ATTACHED AT END AT 19' 10".
- PROPOSED FIBER AT 19' 3".
- PROPOSED DISCONNECT BOX.
- PROPOSED WTR FUSE BOX.
- PROPOSED 1" SCHEDULE 80 POWER RISER (BEHIND POLE)
- PROPOSED 2" SCHEDULE 80 COMM RISER.
- EQUIPMENT TO BE PAINTED TO BLEND WITH UNDERLYING WOOD POLE.

NOTES:

TOP OF POLE: 39' 2"
TOP OF ANTENNA: 22' 3"
ANTENNA TYPE: KMW

"CONSTRUCTION NOTE: ANTENNA, ION, AND WTR TO BE MOUNTED ON UTILITY POLE. NO METER PEDESTALS INSTALLED."



INFORMATION

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

RF EXPOSURE AT THIS SITE DOES NOT EXCEED THE FCC PUBLIC EXPOSURE STANDARD AND THUS HAS BEEN DETERMINED TO BE SAFE FOR THE GENERAL POPULATION.

Reference: Federal Communications Commission (FCC) Public Exposure Handbook, OET Bulletin 65, August 1997.

C RISER DETAIL D RF STICKER SCALE N.T.S.



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TICKET # _____

SERVICE EQUIPMENT POLE PROFILE



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CITY, STATE, ZIP: CORONA, CA 92883
CONTACT: JORGE BECERRA
PHONE: (951) 572-1252
EMAIL: JORGE.BECERRA@HPCOMMINC.COM

POWER MANAGER

NAME: CROWN CASTLE NG WEST LLC
ADDRESS: 300 SPECTRUM CENTER DR, STE. 1200
CITY, STATE, ZIP: IRVINE, CA 92618
CONTACT: JOE ARNOLD
PHONE: (408) 468-5400
EMAIL: JOE.ARNOLD@CROWNCastle.COM

NODE ENGINEER

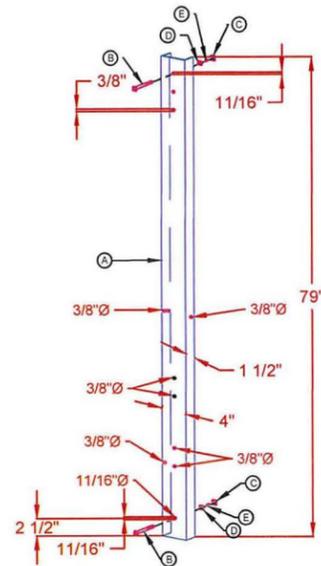
NAME: COASTAL COMMUNICATIONS
ADDRESS: 5841 EDISON PL, STE. 110
CITY, STATE, ZIP: CARLSBAD, CA 92008
CONTACT: TODD THREW
PHONE: (760) 929-0910 EXT. 101
EMAIL: TODD@COASTALCOMMINC.COM

DESIGN TYPE: NODE DESIGN PHASE: 6
T.B.G. MAP NO.: 919-F2
TOTAL TRENCH FOOTAGE: NA
ENGINEERED BY: CCI DATE: 03/26/12
DRAFTED BY: ANTHONY RANDALL REVISED DATE: 07/20/12
ELECTRONIC FILE NAME: MPC1032CA-SOC05m1

POLE PROFILE

LATITUDE: 33.602764
LONGITUDE: -117.870897
HEADEND:
BASE STATION ID: NA
CASCADE ID: NA
SITE NO.: MPC1032CA-SOC05m1
LOCATION: GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE) BETWEEN SEA LN & 5th AVE) CITY OF NEWPORT BEACH, C A
PLAN No.: SHEET 3 OF 6

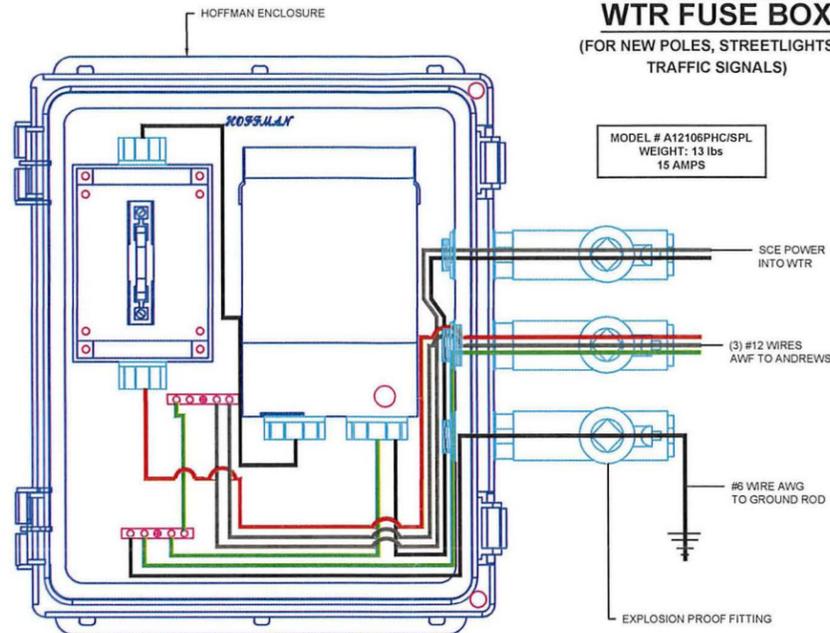
POLE MOUNTING BACK PLATE



CALL OUT	QTY	DESCRIPTION
A	1	MOUNTING PLATE 79" L X 4" W X 1.5D" D
B	2	MACHINE BOLT 16" X 5/8"
C	2	SQUARE NUT 5/8"
D	2	FLAT SQUARE WASHER 4 1/2" X 4 1/2"
E	2	DOUBLE COIL SPRING WASHER

1 SCALE N.T.S.

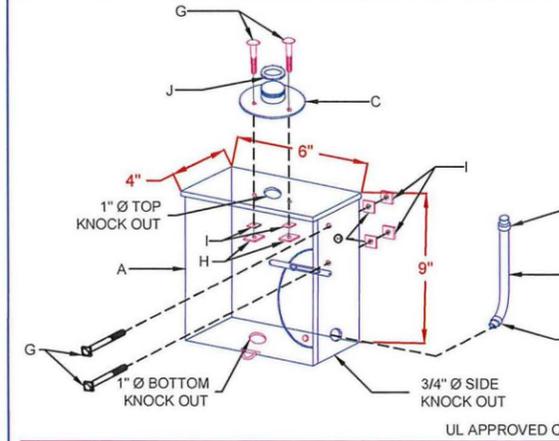
WTR FUSE BOX
(FOR NEW POLES, STREETLIGHTS & TRAFFIC SIGNALS)



MODEL # A12106PHC/SPL
WEIGHT: 13 lbs
15 AMPS

2 SCALE N.T.S.

DISCONNECT BOX



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

CALL OUT	QTY	DESCRIPTION
A	1	CABINET WATER PART
B	1	BREAKER AMP KAIC 2 POLE 120/140 VAC SINGLE PHASE
C	1	1" CLOS 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
I	4	5/16" NUT - STAINLESS STEEL
J	1	1" LOCK NUT

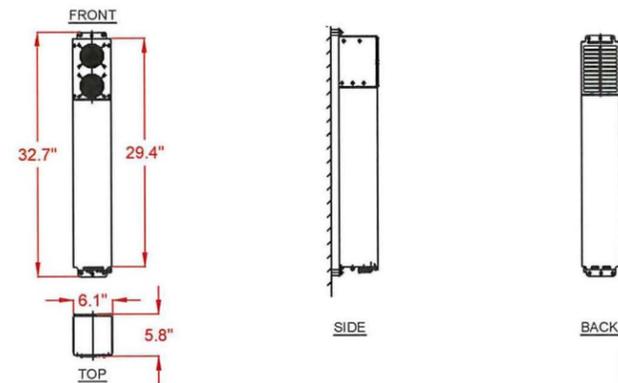
3 SCALE N.T.S.

ANDREW ION-M17P/M19P
SINGLE / DUALBAND OPTICAL SYSTEM

MECHANICAL SPECIFICATIONS*

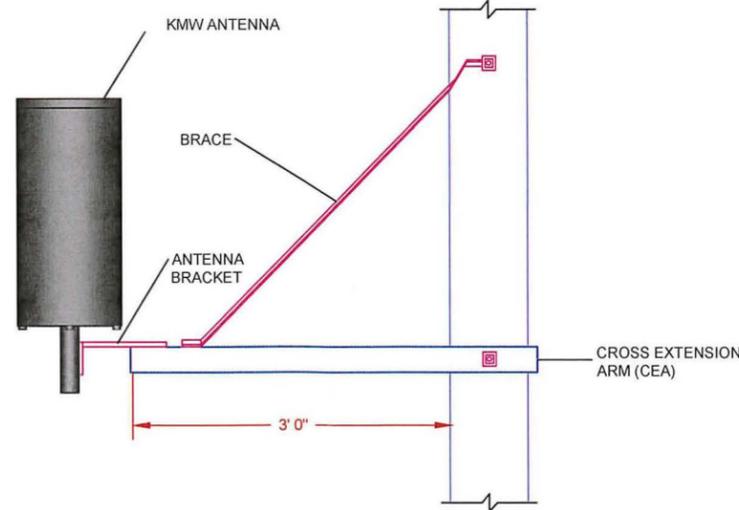
HEIGHT	831 mm (32.7")
WIDTH	156 mm (6.1")
DEPTH	147 mm (5.8")
WEIGHT	APPROX. 20 kg (40 lbs)
MOUNTING	SPACING REQUIRED: 40 mm (2.0" AROUND UNIT). DO NOT BLOCK AIR INLET AND OUTLET. VERTICAL MOUNTING COMPULSORY.

*WITHOUT CONNECTORS



4 SCALE N.T.S.

CEA WITH KMW ANTENNA
(ASSEMBLY DETAIL)



5 SCALE N.T.S.

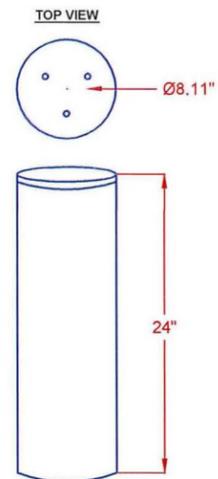
KMW ANTENNA
MODEL #DA-X-AW-13-65-02T3
(1710 ~ 2180MHz, X-pol., H65° / V16°)

ELECTRICAL SPECIFICATIONS

PARAMETER	VALUE
Frequency Range	1710 - 2170 MHz
Gain	13.5 dBi x 3 sectors
Omni Gain	8.8dBi
Beamwidth	Horizontal 65°
	Vertical 16.0°
VSWR	≤ 1.4:1
Polarization	Dual, Slant ±45°
Impedance	50Ω
Fixed Electrical Downtilt	2°
Horizontal Beam Steering	N/A
Upper 1st Sidelobe Suppression	≥ 18 dB
Front-to-Back Ratio	≥ 25 dB
Passive Intermodulation, IM3	≤ -150 dBc (@43dBm, 2tones)
Input Maximum CW Power	200W

MECHANICAL SPECIFICATIONS

Parameter	Value
Dimension (Dia. x H)	8.11 x 24 inches
Weight	30 lbs (Without Mount Adapter)
Connector	2 x 7/16 DIN(F) / Bottom 1 x SMA(F) / Bottom
Max Wind Speed	150 mph



6 SCALE N.T.S.



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

1. CALIFORNIA ADMINISTRATIVE CODE (INCL TITLES 24 & 25)	5. ANSI/DIA-222-F LIFE SAFETY CODE NEPA-101
2. 2010 CALIFORNIA BUILDING CODE WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC.	6. UNIFORM PLUMBING CODE
3. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)	7. NATIONAL ELECTRIC CODE
4. UNIFORM MECHANICAL CODE	8. LOCAL BUILDING CODE
	9. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

GENERAL CONTRACTOR NOTES
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 BE RESPONSIBLE FOR SAME.

PROJECT SUMMARY
CROWN CASTLE TO INSTALL THE FOLLOWING:
• SMALL CELL ANTENNA AND ITS ANCILLARY EQUIPMENT ON UTILITY POLE.

PROJECT MANAGER
NAME: CROWN CASTLE NG WEST LLC
ADDRESS: 300 SPECTRUM CENTER DR, STE. 1200
CITY, STATE, ZIP: IRVINE, CA 92618
CONTACT: GENE MITCHELL
PHONE: (408) 468-5400
EMAIL: GENE.MITCHELL@CROWNCastle.COM

PROJECT MANAGER
NAME: HP COMMUNICATIONS INC.
ADDRESS: 13341 TEMESCAL CANYON RD
CITY, STATE, ZIP: CORONA, CA 92883
CONTACT: JORGE BECERRA
PHONE: (951) 572-1252
EMAIL: JORGE.BECERRA@HPCOMMINC.COM

POWER MANAGER
NAME: CROWN CASTLE NG WEST LLC
ADDRESS: 300 SPECTRUM CENTER DR, STE. 1200
CITY, STATE, ZIP: IRVINE, CA 92618
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POWER MANAGER
NAME: COASTAL COMMUNICATIONS
ADDRESS: 5841 EDISON PL. STE 110
CITY, STATE, ZIP: CARLSBAD, CA 92008
CONTACT: TODD THREWE
PHONE: (760) 929-0910 EXT. 101
EMAIL: TODD@COASTALCOMMING.COM

DESIGN TYPE: NODE DESIGN PHASE: 6

T.B.G. MAP NO.: 919-F2

TOTAL TRENCH FOOTAGE: NA

ENGINEERED BY: CCI DATE: 03/26/12

DRAFTED BY: ANTHONY RANDALL REVISED DATE: 07/20/12

ELECTRONIC FILE NAME: MPC1032CA-SOC05m1

LATITUDE: 33.602764

LONGITUDE: -117.870897

HEADEND: NA

BASE STATION ID: NA

CASCADE ID: NA

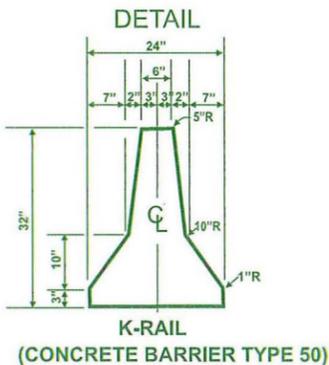
SITE NO.: MPC1032CA-SOC05m1

LOCATION: GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE) BETWEEN SEA LN & 5th AVE) CITY OF NEWPORT BEACH, CA

PLAN No.: SHEET 4 OF 6

DETAIL SHEET

SIGNS



SIGNAGE NOTES

- AT LEAST ONE PERSON SHALL BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON ALL NIGHT LANE CLOSURES.
- ALL WARNING SIGNS FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED OR REFLECTORIZED AS SPECIFIED IN THE SPECIFICATIONS.
- ALL ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES OF ALL MAJOR AND PRIME ARTERIALS. FLASHING BEACONS SHALL BE USED DURING NIGHT LANE CLOSURES.
- A G20-2 "END ROAD WORK" SIGN SHALL BE PLACED AT THE END OF THE LANE CLOSURE UNLESS THE END OF THE WORK AREA IS OBVIOUS, OR ENDS WITHIN A LARGER PROJECT LIMITS.
- ALL CONES USED FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED TRAFFIC CONES OR FITTED WITH 13" REFLECTIVE SLEEVES.
- FLASHING ARROW SIGNS SHALL BE USED PER FHWA MUTCD 2007 EDITION AS AMENDED BY THE MUTCD 2007 CALIFORNIA SUPPLEMENT. SILENT TYPE SHALL BE USED IN RESIDENTIAL AREAS.
- THE MAXIMUM SPACING BETWEEN CONES IN A TAPER OR A TANGENT SHALL BE APPROXIMATELY AS SHOWN IN TABLE 1.
- ADDITIONAL ADVANCE FLAGGERS SHALL BE REQUIRED WHEN TRAFFIC QUEUES DEVELOP. FLAGGER STATIONS FOR WORK AT NIGHT SHALL BE ILLUMINATED AS NOTED IN SECTION 6G.20 OF THE MUTCD.
- PLACE C30 (CA) "LANE CLOSED" SIGN AT 500'-1000' INTERVALS THROUGHOUT EXTENDED WORK AREAS.
- ALL REQUIRED SIGNS THAT ARE TO BE LEFT IN PLACE OVER A WEEKEND OR HOLIDAY SHALL BE POSTED MOUNTED.
- CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL MEET THE PROVISIONS OF SECTION 12 OF THE MOST RECENT EDITION OF THE CALTRANS STANDARD SPECIFICATIONS.

TRAFFIC CONTROL NOTES

- WORK TO BE RESTRICTED TO _____ TO _____ UNLESS APPROVED OTHERWISE.
- PEDESTRIAN CONTROLS WILL BE PROVIDED AS SHOWN.
- PEDESTRIANS SHALL BE PROTECTED FROM ENTERING THE EXCAVATION BY PHYSICAL BARRIERS DESIGNED, INSTALLED, AND MAINTAINED TO THE SATISFACTION OF THE CITY ENGINEER.
- TEMPORARY "NO PARKING/TOW AWAY" SIGNS STATING THE DATE AND TIME OF PROHIBITION WILL BE POSTED 72 HOURS PRIOR TO COMMENCING WORK. CALL POLICE DISPATCH TO VALIDATE POSTING.
- ACCESS WILL BE MAINTAINED TO ALL DRIVEWAYS UNLESS OTHER ARRANGEMENTS ARE MADE.
- TRENCHES MUST BE BACKFILLED OR PLATED DURING NON-WORKING HOURS UNLESS K-RAIL BARRIERS ARE PROVIDED. K-RAIL IS APPROVED ONLY WHEN SPECIFICALLY SHOWN ON THE APPROVED TRAFFIC CONTROL PLAN. PLATES SHALL HAVE CLEATS AND COLD MIX AT THE EDGES AS APPROVED BY THE CITY INSPECTOR.
- STRIPING WILL BE REPLACED BY THE CONTRACTOR WITHIN 24 HOURS, IF REMOVED OR DAMAGED.
- WORK THAT DISTURBS NORMAL TRAFFIC SIGNAL TIMING OPERATIONS SHALL BE COORDINATED WITH CITY OF NEWPORT BEACH.
- TRAFFIC SIGNALS SHALL REMAIN FULLY ACTUATED AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER OR HIS REPRESENTATIVE. IF TRAFFIC SIGNAL LOOP DETECTORS ARE RENDERED INOPERATIVE BY THE PROPOSED WORK, VIDEO DETECTION SHALL BE USED TO PROVIDE ACTUATION.
- FLAGGERS SHALL BE EQUIPPED WITH A WHITE HARD HAT, AN ORANGE VEST, AND A "STOP/SLOW" PADDLE ON A 5 FOOT STAFF.
- ALL TRAFFIC CONTROL DEVICES MUST BE MAINTAINED 24 HOURS A DAY, 7 DAYS PER WEEK, BY THE COORDINATOR.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH MANUAL) 2009 ELEVENTH EDITION OF THE AMERICAN PUBLIC WORKS ASSOCIATION SOUTHERN CALIFORNIA CHAPTER.
- TRAFFIC CONTROL PLAN SUBMITTALS ARE REQUIRED FOR EACH PHASE OF THE WORK IN THE DETAIL, FORMAT, AND QUALITY ILLUSTRATED ON THIS SHEET.
- ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM VIEW OR COVERED WHEN NOT IN USE.
- THE CITY ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO INSURE PUBLIC SAFETY.
- ALL WORK AFFECTING BUS STOPS SHALL BE COORDINATED WITH LOCAL TRANSIT DISTRICT. CONTRACTOR SHALL CALL TRANSIT AT LEAST 72 HOURS IN ADVANCE OF STARTING WORK.
- CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF TRAFFIC CONTROL ON MAJOR AND PRIME ARTERIALS, UNLESS OTHERWISE APPROVED. THESE SIGNS SHALL BE SHOWN ON THE TRAFFIC CONTROL PLAN.

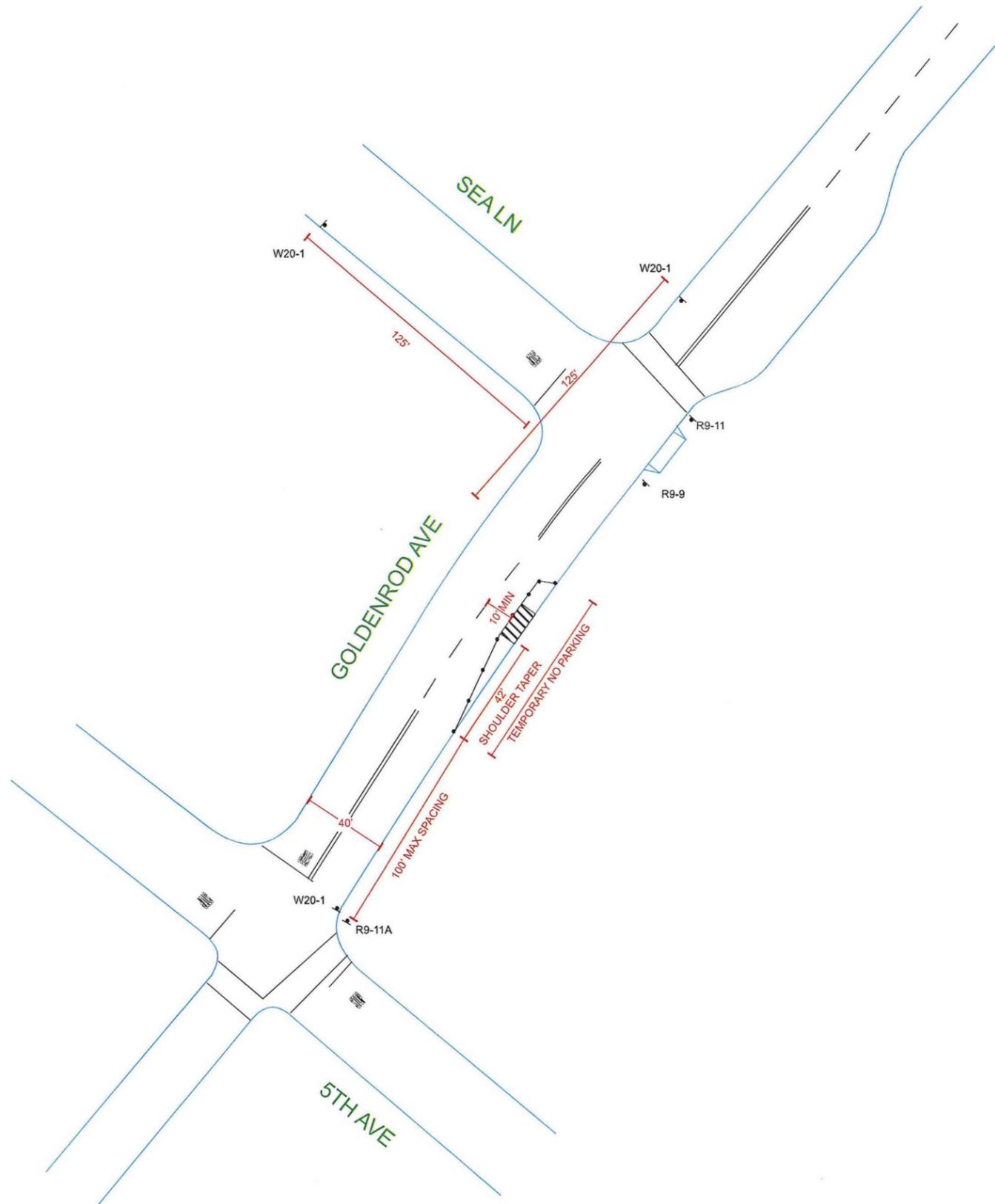
MINIMUM RECOMMENDED CHANNELIZER AND SIGN SPACING ⁽¹⁾														
SPEED "S" MPH ⁽²⁾	DIMENSION A SIGN SPACING		DIMENSION B MINIMUM MERGING TAPER L		DIMENSION C MINIMUM SHIFTING TAPER 1/2 L		DIMENSION D MINIMUM SHOULDER TAPER 1/3 L		DIMENSION E BUFFER SPACE ⁽⁴⁾		MAXIMUM CHANNELIZER SPACING TAPER ⁽³⁾		MAXIMUM CHANNELIZER SPACING TANGENT ⁽³⁾	
	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)
25	125	(40)	125	(40)	63	(20)	42	(13)	158	(48)	25	(8)	50	(15)
30	180	(60)	180	(60)	90	(30)	60	(20)	205	(62)	30	(9)	60	(18)
35	245	(75)	245	(75)	123	(35)	82	(25)	257	(80)	35	(11)	70	(22)
40	320	(100)	320	(100)	160	(50)	107	(35)	315	(100)	40	(13)	80	(25)
45	540	(165)	540	(165)	270	(80)	180	(55)	378	(115)	48	(15)	98	(30)
50	600	(180)	600	(180)	300	(90)	200	(60)	446	(130)	48	(15)	98	(30)
55	660	(200)	660	(200)	330	(100)	220	(65)	520	(165)	48	(15)	98	(30)
60	720	(220)	720	(220)	360	(110)	240	(75)	596	(180)	48	(15)	98	(30)
65	780	(240)	780	(240)	390	(120)	260	(80)	682	(210)	48	(15)	98	(30)
Local Agency Freeways	1000	(300)	1000	(300)	500	(150)	330	(100)	1000	(300)	48	(15)	98	(30)
Pedestrians	N/A	N/A	20	(6)	15	(3)	6	(2)	N/A	N/A	3	(1)	6	(2)
Bicyclists	Use Roadway Sign Spacing		75	(25)	38	(12)	25	(8)	N/A	N/A	12	(4)	25	(8)

- Refer to specific State requirements for work on State Freeways and State Highways.
- Posted Speed or observed operating speed (whichever is greater).
- Channelizer spacing shall be reduced in half at areas where work is taking place, on curves, or areas on head-on conflict.
- Buffer space may be inserted in low speed urban areas, should be inserted in high speed urban and rural areas, and shall be inserted in Local Agency Freeways. Buffer space, when inserted, should be increased on down grades and should be kept clear of equipment and materials, except for a Shadow Vehicle.

LEGEND

<p>➔ DIRECTION OF TRAVEL</p> <p>🚧 PORTABLE SIGN</p> <p>● TRAFFIC CONE/DELINEATOR</p> <p>⚡ TYPE II BARRICADE</p> <p>🚧 FLAGGER</p> <p>🌳 FLAG TREE</p>	<p>⊕ PORTABLE FLASHING BEACON (SEE SIGNAGE NOTE #3)</p> <p>▬ K-RAIL (TYPE 50 CONCRETE BARRIER)</p> <p>☑ CMS CHANGEABLE MESSAGE SIGN</p> <p>⚡ FLASHING ARROW SIGN</p> <p>▨ WORK AREA</p>
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		TRAFFIC CONTROL PLANS FOR: MPC1032CA-SOC05m1 POLE #1728160E GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE (BETWEEN SEA LN & 5TH AVE) CITY OF NEWPORT BEACH, CA	
CITY OF NEWPORT BEACH, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT			
DRAWN BY: COASTAL COMMUNICATIONS, INC. 5841 EDISON PLACE STE 110 CARLSBAD, CA 92008		COMMUNICATIONS TELE: (760) 929-0910 FAX: (760) 929-0936	
FOR CITY ENGINEER: _____ DATE: _____		DRAFTED BY: RUDY RINCON T.B. PAGE: 319-F2 DATE: 7/28/2012	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CCI		
		GENE MITCHELL CONSTRUCTION SUPERVISOR	
		MPC1032CA-SOC05m1 830 GOLDENROD AVE FILE NAME	
AS-BUILTS			
CONTRACTOR	DATE STARTED	5 OF 6	
INSPECTOR	DATE COMPLETED		



NOTE: W20-1 & G20-2 SHALL BE PLACED ON AFFECTED CROSS STREETS ACCORDING TO THE SPEED LIMIT OF THE CROSS STREET



		TRAFFIC CONTROL PLANS FOR: MPC1032CA-SOC05m1 POLE #1728160E GOLDENROD AVENUE PUBLIC ROW WEST OF 3000 FIFTH AVE (BETWEEN SEA LN & 5TH AVE) CITY OF NEWPORT BEACH, CA		
		CITY OF NEWPORT BEACH, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT		
DRAWN BY: COASTAL COMMUNICATIONS, INC. 5841 EDISON PLACE STE 110 CARLSBAD, CA 92008		TELE: (760) 925-0910 FAX: (760) 925-0939		
FOR CITY ENGINEER _____ DATE _____		DRAFTED BY: RUDY RINCON TB. PAGE: 919-F2 DATE: 7/20/2012		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CCI			
				GENE MITCHELL CONSTRUCTION SUPERVISOR
				MPC1032CA-SOC05m1 830 GOLDENROD AVE FILE NAME
CONTRACTOR _____		DATE STARTED _____		6 OF 6
INSPECTOR _____		DATE COMPLETED _____		