CITY OF CARSON

PLANNING COMMISSION STAFF REPORT

PUBLIC HEARING:	April 8, 2014
SUBJECT:	Design Overlay No. 1519-13
APPLICANT:	AT&T Attention: Gary Cassel of Ericsson Inc.
REQUEST:	To approve a modification to an existing roof-mounted wireless communications facility and related equipment located in the ML (Manufacturing, Light) zoning district
PROPERTY INVOLVED:	1533 East Del Amo Boulevard

COMMISSION ACTION

_____ Concurred with staff

_____ Did not concur with staff

_____ Other

COMMISSIONERS' VOTE

AYE	NO		AYE	NO	
		Chairman Faletogo			**Gordon**
		Vice-Chair Verrett			**Piñon**
		Brimmer			**Saenz**
		Diaz			**Schaefer**
		Goolsby			

Item No. 11A

I. Introduction

Applicant
Gary Cassel
Ericsson Inc. for AT&T Wireless
330 Commerce Drive, Suite 200
Irvine, CA 92602
gary.cassel@ericcsson.com

Property Owner
Lucas Auto Engineering
2850 Temple Avenue
Long Beach, CA 90703

Project Address
1533 E. Del Amo Boulevard

Project Description
The applicant, Gary Cassel of Ericcson Inc. represents AT&T and is requesting approval of a modification to Design Overlay Review (DOR) No. 1519-13 for an existing 28-foot-high, stealthed, roof-mounted communications facility and related equipment located at 1533 E. Del Amo Boulevard. The applicant proposes to modify the existing facility's antenna layout of both sectors and construct a third sector on the north side (rear) of the building located within 100 feet of a residential zone. Eight-foot-high screen walls screen each antenna sector consisting of 4 eight-foot-high antennas per sector totaling 12 antennas, six (6) new remote radio units (two per sector) and related equipment. The modification increases the height to the top of the facility from 28 feet to 30 feet. The existing 162-square-foot lease area for the ground-mounted equipment remains the same size.

The subject property is located in the ML-D (Manufacturing, Light – Design Overlay) zoning district and has a General Plan Land Use designation of Light Industrial.

A design overlay review is required because the modified facility is located within 100 feet of a residential zone.

Background

Existing Site Location/Current Use of Property
The square shaped, relatively flat, 2-acre subject property is in the northeastern portion of the City on the north side of Del Amo Boulevard between Central Avenue and Wilmington Avenue. The site is developed with one large, multi-tenant industrial building and off-street parking (Exhibit No. 1). According to business license records, there are three licensed uses: youth athletic center; industrial products (storage and distribution of valves and fittings); and AT&T's cell site.

The roof-mounted antennas are located behind screen walls on the east and west sides of the building facing Del Amo Boulevard and the associated ground-mounted equipment cabinets are located on the east side of the building within a block wall enclosure adjacent to off-street parking.

The existing roof-mounted facility and its related equipment enclosure were approved in 2004. AT&T Mobility is the sole carrier on-site.

In 2003, Ordinance No. 03-1284 was adopted by the City which requires lawfully established roof-mounted wireless communications facilities (monopoles) to obtain a conditional use permit (CUP) and is subject to design overlay review (DOR). In 2010, the ordinance was amended to streamline the process and accommodate certain situations. The ordinance provides administrative design review for stealth building and roof-mounted facilities that are not located within 100 feet of a residential zone. The proposed modification to install a third facility at the rear of the building is located less than 50 feet from the adjacent residential tract. As such, a DOR is required.

The applicant requests approval of DOR No. 1519-13 for the modification of the roof-mounted communications facility.

Previous Discretionary Permits
Design Overlay Review No. 776-02
In 2002, the Planning Commission did not take action (no decision to approve or deny) regarding the application. The matter was referred back to staff for administrative review of the proposed stealth roof-mounted facility because the valuation was determined to be less than $50,000.00 and it was not located within 100 feet of residential. The DOR fee was refunded to the applicant. However, no building permit was issued.

In 2004, the applicant (at that time) requested an extension of time for DOR No. 776-02 to install the original facility and related equipment. Staff advised that an extension of time is not applicable because the Planning Commission did not take action. Staff reviewed the facility administratively because the location of the existing stealth roof-mounted facility was not within 100 feet of residential.

In 2005, according to building permit records, the existing roof-mounted facility was constructed.

In 2011, application to modify DOR No. 776-02 was submitted for the facility but it was not processed for the same reason – the application is not applicable. Staff advised that a DOR is required for the modification request because the modified facility includes a third sector located less than 100 feet of a residential zone.

In October 2013, staff received the application for DOR No. 1519-13 to modify the existing roof-mounted facility and add a third sector within 100 feet of a residential zone.

Public Safety Issues
There is no open code enforcement case.

II. Analysis

AT&T is the sole wireless communications provider located on the roof-mounted facility. The existing facility consists of two sectors totaling six panel antennas and an existing

162-square-foot lease area housing the related ground-mounted equipment. The applicant is proposing six additional panel antennas as part of the modification. The applicant proposes to modify the existing facility's antenna layout of both sectors and construct a third sector on the north side (rear) of the building located within 100 feet of a residential zone – each sector includes four eight-foot-high antenna panels (totaling twelve), two new remote radio units (totaling 6), and related equipment. Roof-mounted screen walls will screen the entire facility and be painted to match the existing building.

The existing facility has provided wireless service for the general vicinity for about 10 years. The modification proposal provides newer technology to support and maximize coverage for the general area. Staff believes approval of the modified roof-mounted facility can be supported due to similar findings: it is located within an industrial property and is integrated with the surrounding industrial properties consisting of large buildings. The screen walls are architecturally compatible with the existing building and surrounding area and there are no foreseeable significant impacts that would result and the project does not have the potential for causing a significant effect on the environment. (Exhibit Nos. 2, 3 and 4)

Section 9138.16(D) of the Carson Municipal Code (CMC) defines the proposed project as a minor communications facility. Procedural standards contained in this Section require that a minor communications facility located within 100 feet of a residential zone be subject to the approval of a development plan in accordance with Sections 9172.23, Site Plan and Design Review (DOR).

DESIGN OVERLAY REVIEW NO. 1519-13

The Planning Commission may approve Design Overlay Review No. 1519-13 if the following findings can be made in the affirmative, as per CMC Section 9172.23(D):

a. Compatibility with the General Plan, any specific plans for the area, and surrounding uses.

   The subject property is designated as Light Industrial within the Land Use Element of the General Plan. The industrial properties along Del Amo Boulevard consist of office, warehouse and manufacturing uses and are designated Light Industrial. A residential neighborhood and park are located north of the project site. The project site is located in the northeast area of the City. There are no specific plans for the area. The existing use is a permitted use in the ML zoning district and will be compatible with these surrounding uses in that it will not significantly impact the adjacent properties, in terms of noise, dust, odor, aesthetics or other environmental considerations.

b. Compatibility of architecture and design with existing and anticipated development in the vicinity, including the aspects of site planning, land coverage landscaping, appearance and scale of structures and open spaces and other features relative to a harmonious and attractive development of the area.

   The modified facility is roof-mounted and screen walls provide stealthing of the three sectors. Two sectors will remain at the front of the building on the east and west corners and a new third sector is proposed at the rear of the building adjacent to a residential neighborhood. The ground-mounted equipment area remains housed in a lease area near the front of the property. The property is generally rectangular-

shaped and has trees located along Del Amo Boulevard. The applicant proposes screen walls to blend the facility into the existing building.

c. Convenience and safety of circulation for pedestrians and vehicles.

   The existing parking will not be affected. The driveway widths and parking spaces will remain code-compliant, thereby adequately maintaining the convenience and safety of circulation for pedestrians and vehicles.

d. Attractiveness, effectiveness and restraint in signing, graphics and color.

   Apart from the required safety, directional or informational signs, no product advertising signs are proposed for the project.

e. Conformance to any applicable design standards and guidelines that have been adopted pursuant to Section 9172.15

   The existing and proposed roof-mounted facility conforms to applicable design standards and guidelines. As such, the proposed modification can be considered for approval by the Planning Commission subject to conditions of approval.

In addition to the findings in Section 9172.23(D) of the CMC, the Planning Commission shall be guided by the provisions of Subsection F, Development and Design Standards, of Section 9138.16, which includes standards for setbacks, height, wiring, painting, lighting, noise and signs. Also, Subsection H, Findings, of Section 9138.16, which includes the following:

a. The proposed site is the best alternative after considering co-location with another facility and location at another site.

   The roof-mounted facility has been operating on-site for about 10 years and no collocation is being proposed at this time. Records show that the determining factors in site selection included the ability to lease the necessary property, ability to construct the proposed site, conformance to the zoning code (at that time), and the ability to provide adequate radio frequency coverage and connect to surrounding network sites. (Exhibit No. 4)

b. The proposed wireless communications facility will be located and designed to minimize the visual impact on surrounding properties and from public streets, including adequate screening through he use of landscaping that harmonize with elements and characteristics of the property and/or stealthing which incorporates the facility with the structure in which it will be mounted through use of material, color and architectural design.

   The modified roof-mounted facility consists of three sectors: two facing Del Amo Boulevard located on the east and west corners and the third located on the north (rear) side of the building. The project site is a 2-acre industrial property with multiple tenants. The applicant's proposal includes increasing the amount of antennas from six (6) to twelve (12) antenna panels (4 panels per sector). Proposed screen walls stealth all sectors and its related equipment to lessen aesthetic impact to the residential and industrial properties. The large industrial properties consisting of large buildings and adequate landscape along Del Amo Boulevard also help minimize the visual impact.

c. The proposed wireless telecommunication facility is not located on any residential dwelling or on any property which contains a residential dwelling, except as may be associated with a church, temple, or place or religious worship.

The existing project is located on an industrial property that does not have any residential dwellings, church, or place of religious worship on-site.

The existing facility was constructed legally and conforms to the City's requirements. However, the proposed modification places the facility within 100 feet of a residential zone requiring design overlay review. The Planning Commission has the authority to determine if the new sector is too close to residences and should be modified. Staff believes the proposed project integrates adequately within the surrounding industrial, residential and open space areas.

Based upon the information found in the Analysis section, all of the required findings pursuant to Section 9172.23(d), Site Plan and Design Review, Approval Authority, Commission Findings and Decision, as well as all other specific criteria identified for each of the discretionary permits can be made in the affirmative.

III. Environmental Review

Pursuant to Section 15301, Class 1 – Existing Facilities of the California Environmental Quality Act (CEQA), modification of the existing roof-mounted communications facility is exempt. The communications facility on a developed industrial property reasonably falls within this exemption category since no foreseeable significant impacts would result and the project does not have the potential for causing a significant effect on the environment.

IV. Conclusion

The roof-mounted facility is consistent with the current communications facilities regulations in the Carson Municipal Code. The proposed third sector is located within 100 feet of residences, but will be screened to match the building.

V. Recommendation

That the Planning Commission:

- **APPROVE** Design Overlay No. 1519-13, subject to conditions of approval attached as Exhibit "B" to the Resolution; and
- **WAIVE** further reading and ADOPT Resolution No. _____, entitled "A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF CARSON APPROVING DESIGN OVERLAY REVIEW NO. 1519-13 TO PERMIT MODIFICATION OF AN EXISTING ROOF-MOUNTED COMMUNICATIONS FACILITY ON A PROPERTY LOCATED AT 1533 EAST DEL AMO BOULEVARD."

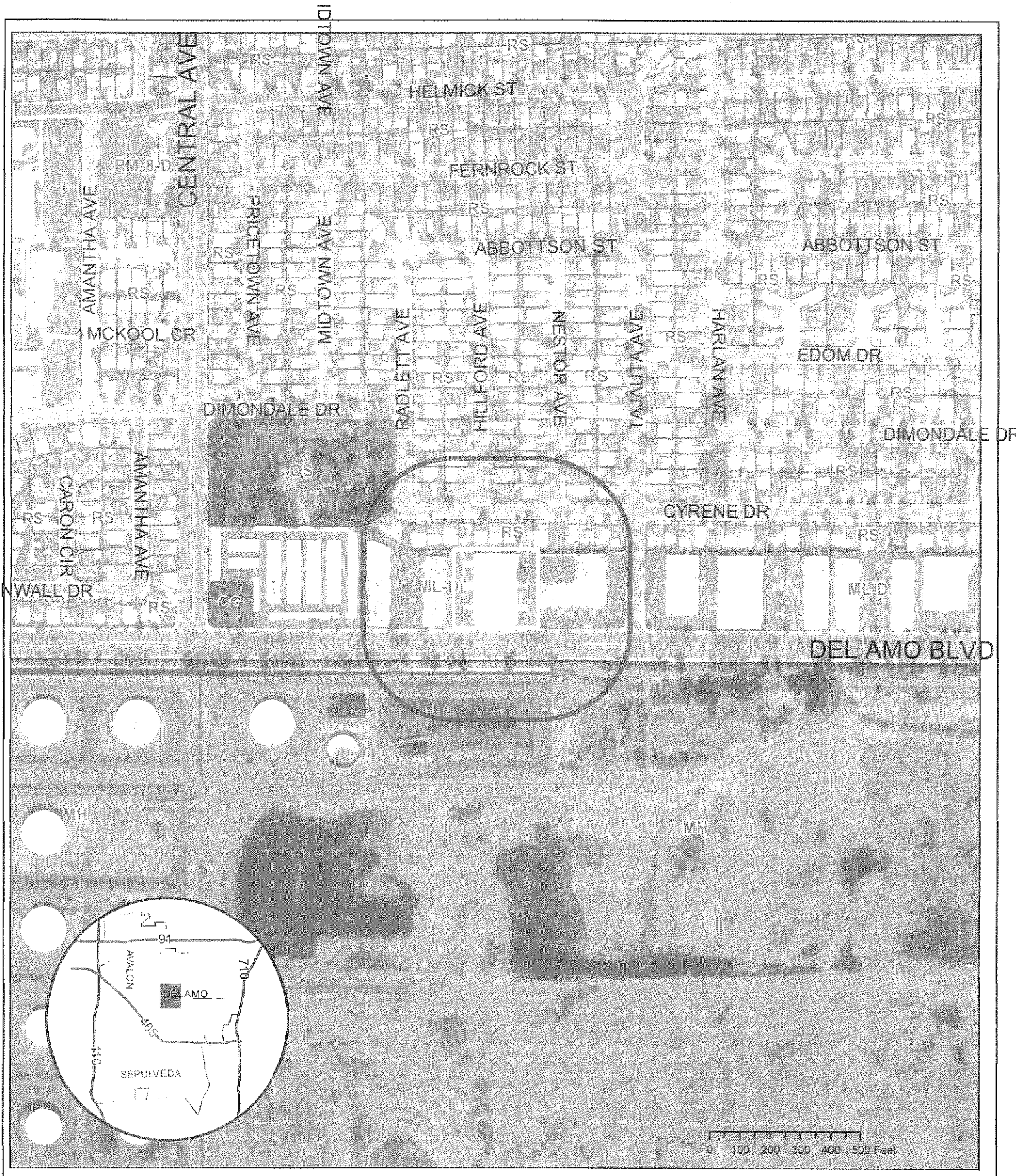
VI. Exhibits

1. Land Use Map
2. Site Justification Report

3. RF Emissions Report
4. Noise Attenuation Memo
5. Local Facilities Map
6. Resolution
7. Development Plans (Submitted under separate cover)

Prepared by: _____
McKina Alexander, Planning Technician II

Reviewed and approved by: _____
John F. Signo, AICP, Senior Planner



City of Carson
300 Foot Radius Map
1533 East Del Amo Boulevard

EXHIBIT NO. 01

8

Date Printed: Monday, March 24, 2014
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Public Hearing Notices\Zoning\Map.mxd

Introduction

AT&T Mobility is a registered public utility, licensed and regulated by the California Public Utilities Commission (CPUC) and the Federal Communications Commission (FCC). As a public utility, AT&T Mobility is mandated by the FCC to provide wireless communication services throughout California. AT&T is dedicated to providing customers with wireless technology designed to enrich their lives as the mobility is increasing. AT&T's vision is to simplify the wireless experience for its consumer and business customers by offering easy-to-understand, affordable rate plans and excellent customer service. AT&T is bringing next-generation wireless data products - from corporate e-mail to downloadable ringtones - to customers nationwide through its advanced networks. The network performance goals include providing the best quality, lowest level of blocking, easy access to the network and continuous drop-free connections.

AT&T's network is based on GSM Technology. GSM technology is a wireless communication standard that requires reusing specific frequencies across a defined frequency band. Due to the need for frequency reuse, GSM requires numerous sites to provide customers with suitable signal strength to deliver services. These sites are typically built on existing buildings, lattice towers and freestanding poles in order to provide a network of sites that provide seamless coverage over an area. Preference is given to co-locating with another carrier on an existing structure.

Efforts are currently underway in Carson to establish the required infrastructure. AT&T Mobility has retained the services of Ericsson, Inc., to facilitate the land use entitlement process. Ericsson, Inc., is currently seeking the review and approval of a Conditional Use Permit for the design of a wireless telecommunications facility at 1533-1535 Del Amo Blvd. The project is a modification to an existing AT&T site.

Background

AT&T Mobility serves millions of voice and data customers across the United States. Wireless communications will continue to change the future of telecommunications with easy-to-use, lightweight and highly mobile communications devices including: portable telephones, computers and Personal Digital Assistants (PDAs). Wireless communications will provide voice, e-mail and Internet access capabilities for customer's communications needs virtually anywhere and at any time.

The wireless network being developed by AT&T differs from typical cellular networks in that it uses state of the art digital technology instead of analog systems, which have been in use since the early 1980's. The benefits include call privacy and security, improved voice quality, and an expanded menu of affordable products and services for personal and professional communications needs.

The AT&T network will enhance a locator device that will connect 911 calls to local police and fire departments. In the event of an emergency, specially equipped emergency vehicles will be able to identify a customer's location once a call is received. AT&T Mobility's network infrastructure is designed to help meet public safety needs in the community. The number of 911 calls is constantly growing as more people use their cell phones to call for emergency help, for medical help and to fight crime.

Like other carriers in the industry, AT&T Mobility is working diligently to respond to the customer demand for mobile services, by expanding services to its customers from where they have historically used mobile phones, while traveling in the vehicle at their offices to where they are demanding more and more service in the residential communities, in-building coverage in their homes.

Project Overview

Ericsson Inc. is currently seeking the review and approval of a Conditional Use Permit for the design of a wireless telecommunications facility. The project is proposed to enhance wireless telecommunications services within this general vicinity of Carson. Coverage areas must be improved and network capacity expanded to handle the growing number of calls and wireless data usage. AT&T must especially improve services where consumers are increasingly using their phones and data services.

AT&T Mobility is proposing the following:

Replace existing antennas with twelve (12) new 8' panel antennas, arranged in three (3) sectors of four (4) antennas, modify and extend screening to match. Install (6) Remote Radio Units (RRU's);

Remove and install RF Concealment boxes

Add 2 equipment cabinets within the outside equipment area.

Once constructed and operational, the communications facility will provide 24-hour service to customers seven (7) days a week. Apart from initial construction activity, an AT&T technician on a periodic basis will service the facility. It is reasonable to expect that routine maintenance/inspection of the facility will occur once a month during normal working hours. Beyond this intermittent service, AT&T requires 24-hour access to the facility to ensure that technical support is immediately available if and when warranted.

Overview of Site Design/Location Criteria

The network of AT&T cell sites throughout the region is "location dependent," meaning that there is a necessary and logical interrelationship between each proposed site. Eliminating or relocating a single cell site can lead to gaps in the system and prohibit AT&T from providing uninterrupted or reliable service to customers in a defined coverage area.

Further, the elimination or relocation of a cell site will most often have a "domino" effect on other cell site modifications to the network.

In identifying the proposed location, AT&T network deployment personnel have selected a site that not only meets the technical objectives of RF engineering, but concurrently provides the best sitting option with regard to other key criteria that include, but are not limited to: accessibility, utility connections, zoning compatibility, liability and risk assessment, site acquisition, maintenance and construction costs.

Site Development Standards and General Plan

The location, size, design, and operating characteristics of the proposed facility will not create unusual noise, traffic or other conditions or situations that may be objectionable, detrimental or incompatible with the surrounding land uses. The proposed use is consistent with this finding in that:

1. The proposed equipment associated with the telecommunication structure operates quietly or virtually noise free.

2. The equipment does not emit fumes, smoke, or odors that could be considered objectionable.

3. The telecommunications facility is unmanned and only requires periodic maintenance, which equates to approximately one trip per month. The proposed communication facility will not result in conditions or circumstances contrary to the public health, safety and the general welfare. The proposed use is consistent with this finding in that:

Unlike other land uses, which can be spatially determined through the General Plan or other land use plans, the location of wireless telecommunications facilities are based on technical requirements which include service area, geographical elevations, alignment with neighboring sites and customer demand components. Placement within the urban geography is dependent on these requirements. Accordingly, wireless telecommunication facilities have been located adjacent to and within all major land use categories including residential, commercial, industrial, open space, etc. proving to be compatible in all locations.

The proposed facility at the subject location will be unmanned, have no impact on circulation systems, and generate no noise, odor, smoke, or any other adverse impacts to adjacent land uses. The proposed facility will allow commuters and residents within the coverage area wireless access to the rapidly expanding communications infrastructure by providing voice and data transmission services not currently available. The installation of antenna sectors and transmission equipment will not result in any material changes to the character of the local community. This proposed wireless telecommunications facility will operate in full compliance with all state and federal regulations including the Telecommunications Act of 1996.

at&t Mobility
12900 Park Plaza Dr. 3rd fl.
Cerritos, CA 90703

T: 562-468-6162
F: 562-403-1830

AT&T LETTER OF AUTHORIZATION

October 23, 2013

AT&T Project at: 1533-1543 Del Amo Blvd., Carson, CA 90746

This letter shall serve to notify and verify to the recipient that Ericsson Inc. is an approved vendor of AT&T Mobility, Ericsson authorized to work on the AT&T cell sites. The Authorized Ericsson Agent for this project is Michael Mischel.

If additional information is required please contact me at 562-468-6162

Alma Pineda
Ap3835@att.com
562-468-6162
Property Manager, AT&T Mobility
12900 Park Plaza Drive, 3rd Floor
Cerritos, CA 90703

Radio Frequency – Electromagnetic Energy (RF-EME) Compliance Report

USID# 25665
Site No. LA0105
Lucas-1533 Del Amo
1519 East Del Amo Boulevard
Carson, California 90745
Los Angeles County
33.846944; -118.245278 NAD83
Rooftop

EBI Project No. 69132585
December 11, 2013

Prepared for:

AT&T Mobility, LLC
c/o Ericsson, Inc.
6160 Stoneridge Mall Road, Suite 400
Pleasanton, CA 94588

Prepared by:

EBI Consulting
environmental | engineering | due diligence

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Appendices

EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by AT&T Mobility, LLC to conduct radio frequency electromagnetic (RF-EME) modeling for AT&T Site LA0105 located at 1519 East Del Amo Boulevard in Carson, California to determine RF-EME exposure levels from proposed AT&T wireless communications equipment at this site. As described in greater detail in Section 2.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

This report contains a detailed summary of the RF EME analysis for the site, including the following:

- Antenna Inventory
- Site Plan with antenna locations
- Antenna inventory with relevant parameters for theoretical modeling
- Graphical representation of theoretical MPE fields based on modeling
- Graphical representation of recommended signage and/or barriers

This document addresses the compliance of AT&T's transmitting facilities independently and in relation to all collocated facilities at the site.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits <u>and</u> there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

Per AT&T's corporate policy, the FCC's general population limits are applicable to all rooftop sites, regardless of the level of access control. As presented in the sections below, based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to ATT's proposed antennas that exceed the FCC's occupational and/or general public exposure limits at this site.

AT&T Recommended Signage/Compliance Plan

AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated September 21, 2012, requires that:

1. All sites must be analyzed for RF exposure compliance;
2. All sites must have that analysis documented; and
3. All sites must have any necessary signage and barriers installed.

Site compliance recommendations have been developed based upon protocols presented in AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated September 21, 2012, additional guidance provided by AT&T, EBI's understanding of FCC and OSHA requirements, and common industry practice. Barrier locations have been identified (when required) based on guidance presented in

T&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated September 21, 2012. The following signage is recommended at this site:

- Green INFO 1 sign posted on or next to each roof access door and at each of the three sectors of antennas.

The signage proposed for installation at this site complies with AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document and therefore complies with FCC and OSHA requirements. Barriers are not recommended on this site. More detailed information concerning site compliance recommendations is presented in Section 5.0 and Appendix E of this report.

1.0 SITE DESCRIPTION

This project involves the proposed addition of six (6) LTE antennas to the existing six (6) wireless telecommunication antennas on a rooftop in Carson, California. There are three Sectors (A, B, and C) proposed at the site, with two (2) existing antennas and two (2) proposed LTE antennas per sector. For modeling purposes, it is assumed that there will be one (1) UMTS antenna in each sector transmitting in two bands each of the 850 and 1900 MHz frequency ranges, two (2) LTE antennas in each sector transmitting in the 700 and 1900 MHz frequency ranges, and one (1) GSM antenna in each sector transmitting in the 850 and 1900 MHz frequency ranges. The Sector A antennas will be oriented 100° from true north. The Sector B antennas will be oriented 220° true north. The Sector C antennas will be oriented 340° from true north. The bottoms of the antennas will be 23.9 feet (LTE) and 23.4 feet (UMTS and GSM) above ground level. Appendix B presents an antenna inventory for the site.

Access to this site is unknown. To be conservative and to comply with AT&T's corporate policy, the modeling results are reported as though the general public is able to access the rooftop.

Modeling results were generated based on information from the following materials:

- RFDS – LA0105-RFDS-L.A._LA0105_2013-eNode-B_LTE-Wave-4_gd8790_3551015393_10094629_25665_09-12-2013_Approved_v1.00 dated 9/12/13
- CDs – LA0105_90 ZDS_10.23.13 dated 10/23/13

2.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/ controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General public/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Table 1 and Figure 1 (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

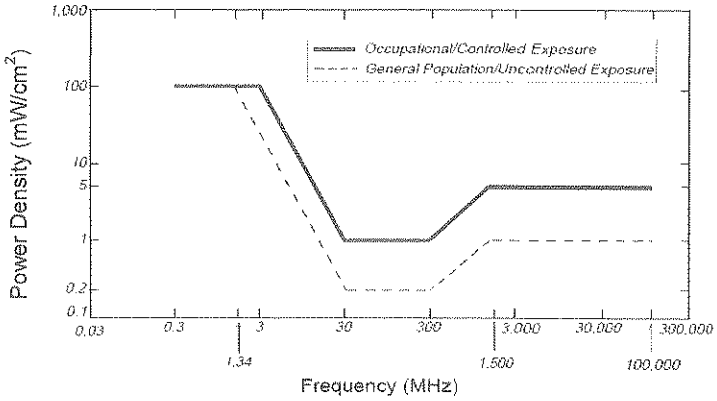
The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm^2). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm^2) and an uncontrolled MPE of 1 mW/cm2 for equipment operating in the 1900 MHz frequency range. For the AT&T equipment operating at 850 MHz, the FCC's occupational MPE is 2.83 mW/cm^2 and an uncontrolled MPE of 0.57 mW/cm^2. For the AT&T equipment operating at 700 MHz, the FCC's occupational MPE is 2.33 mW/cm^2 and an uncontrolled MPE of 0.47 mW/cm^2. These limits are considered protective of these populations.

Table 1: Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $[E]^2$, $[H]^2$, or S (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	$(900/f^2)$*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (E) (V/m)**	**Magnetic Field Strength (H) (A/m)**	**Power Density (S) (mW/cm^2)**	**Averaging Time $[E]^2$, $[H]^2$, or S (minutes)**
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	$(180/f^2)$*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)
* Plane-wave equivalent power density

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)
Plane-wave Equivalent Power Density



Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm^2	1.00 mW/cm^2
Cellular Telephone	870 MHz	2.90 mW/cm^2	0.58 mW/cm^2
Specialized Mobile Radio	855 MHz	2.85 mW/cm^2	0.57 mW/cm^2
Long Term Evolution (LTE)	700 MHz	2.33 mW/cm^2	0.47 mW/cm^2
Most Restrictive Freq, Range	30-300 MHz	1.00 mW/cm^2	0.20 mW/cm^2

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by AT&T in this area operate within a frequency range of 700-1900 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

3.0 AT&T RF Exposure Policy Requirements

AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated September 21, 2012, requires that:

1. All sites must be analyzed for RF exposure compliance;

2. All sites must have that analysis documented; and
3. All sites must have any necessary signage and barriers installed.

Pursuant to this guidance, worst-case predictive modeling was performed for the site. This modeling is described below in Section 4.0. Lastly, based on the modeling and survey data, EBI has produced a Compliance Plan for this site that outlines the recommended signage and barriers. The recommended Compliance Plan for this site is described in Section 5.0.

4.0 Worst-Case Predictive Modeling

In accordance with AT&T's RF Exposure policy, EBI performed theoretical modeling using RoofView® software to estimate the worst-case power density at the site ground-level and nearby rooftops resulting from operation of the antennas. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

For this report, EBI utilized antenna and power data provided by AT&T and compared the resultant worst-case MPE levels to the FCC's occupational/controlled exposure limits outlined in OET Bulletin 65. The assumptions used in the modeling are based upon information provided by AT&T and information gathered from other sources. There are no other wireless carriers with equipment installed at this site.

Per AT&T's corporate policy, the FCC's general population limits are applicable to all rooftop sites, regardless of the level of access control. Based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to ATT's proposed antennas that exceed the FCC's occupational and/or general public exposure limits at this site.

At the nearest walking/working surfaces to the AT&T antennas, the maximum power density generated by the AT&T antennas is approximately 43.40 percent of the FCC's general public limit (8.68 percent of the FCC's occupational limit).

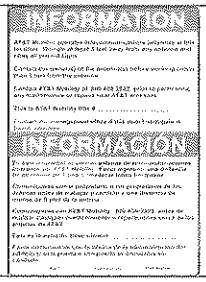
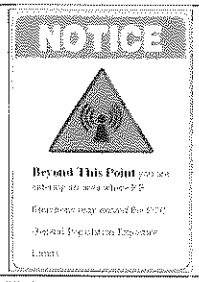
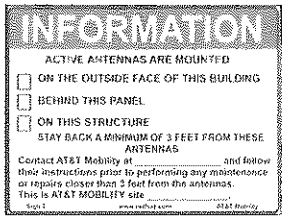
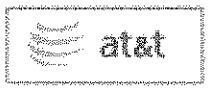
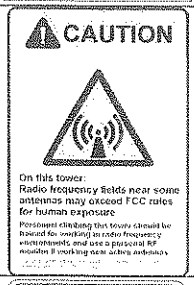
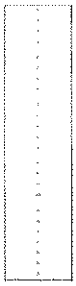
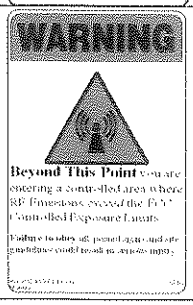
The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix C. A graphical representation of the RoofView® modeling results is presented in Appendix D. It should be noted that RoofView® is not suitable for modeling microwave dish antennas; however, these units are designed for point-to-point operations at the elevations of the installed equipment rather than ground-level coverage. Based on AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated September 21, 2012, microwave antennas are considered compliant if they are higher than 20 feet above any accessible walking/working surface. There are no microwaves installed at this site.

5.0 RECOMMENDED SIGNAGE/COMPLIANCE PLAN

Signs are the primary means for control of access to areas where RF exposure levels may potentially exceed the MPE. As presented in the AT&T guidance document, the signs must:

- Be posted at a conspicuous point;
- Be posted at the appropriate locations;
- Be readily visible; and
- Make the reader aware of the potential risks prior to entering the affected area.

The table below presents the signs that may be used for AT&T installations.

Informational Signs		Alerting Signs	
	INFO 1		NOTICE
	INFO 2		CAUTION - ROOFTOP
	INFO 3		CAUTION - TOWER
	INFO 4		WARNING

Based upon protocols presented in AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated September 21, 2012, and additional guidance provided by AT&T, the following signage is recommended on the site:

Recommended Signage:

- Green INFO 1 sign posted on or next to each roof access door and at each of the three sectors of antennas.

No barriers are required for this site. The signage is graphically represented in the Signage Plan presented in Appendix E.

6.0 SUMMARY AND CONCLUSIONS

EBI has prepared this Radiofrequency Emissions Compliance Report for the proposed AT&T telecommunications equipment at the site located at 1519 East Del Amo Boulevard in Carson, California.

EBI has conducted theoretical modeling to estimate the worst-case power density from AT&T antennas to document potential MPE levels at this location and ensure that site control measures are adequate to meet FCC and OSHA requirements, as well as AT&T's corporate RF safety policies. As presented in the preceding sections, based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to ATT's proposed antennas that exceed the FCC's occupational and/or general public exposure limits at this site.

Signage is recommended at the site as presented in Section 5.0 and Appendix E. Posting of the signage brings the site into compliance with FCC rules and regulations and AT&T's corporate RF safety policies.

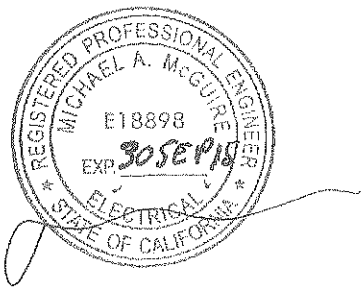
7.0 LIMITATIONS

This report was prepared for the use of AT&T Mobility, LLC to meet requirements outlined in AT&T's corporate RF safety guidelines. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

Appendix A

Certifications

Reviewed and Approved by:



sealed 12dec2013

Michael McGuire
Electrical Engineer

Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the building and related structures, as well as the impact of the antennas and broadcast equipment on the structural integrity of the building, are specifically excluded from EBI's scope of work.

Preparer Certification

I, Alison Martin, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified "occupational" under the FCC regulations.
- I am familiar with the FCC rules and regulations as well as OSHA regulations both in general and as they apply to RF-EME exposure.
- I have been trained in on the procedures outlined in AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document (dated September 21, 2012) and on RF-EME modeling using RoofView® modeling software.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.

Alison Martin

Appendix B

Antenna Inventory

Antenna Number	Operator	Antenna Type	TX Freq (MHz)	ERP (Watts)	Gain (dBd)	Antenna Model	Azimuth (deg.)	Length (feet)	Horizontal Beamwidth (Degrees)	X	Y	Z
ATT A1	AT&T	Panel	LTE 700	914	11.2	Andrew SBNH-1D6565A	100	4.2	71	97	17	23.9
ATT A1	AT&T	Panel	LTE 1900	2083	14.8	Andrew SBNH-1D6565A	100	4.2	58	97	17	23.9
ATT A2	AT&T	Panel	GSM 850	2588	11.5	Powerwave RA21.7770.00	100	5.3	82	97	15	23.4
ATT A2	AT&T	Panel	GSM 1900	2528	13.4	Powerwave RA21.7770.00	100	5.3	86	97	15	23.4
ATT A3	AT&T	Panel	UMTS 850	343	11.5	Powerwave RA21.7770.00	100	5.3	82	96	13	23.4
ATT A3	AT&T	Panel	UMTS 1900	531	13.4	Powerwave RA21.7770.00	100	5.3	86	96	13	23.4
ATT A3	AT&T	Panel	UMTS 850	343	11.5	Powerwave RA21.7770.00	100	5.3	82	96	13	23.4
ATT A3	AT&T	Panel	UMTS 1900	531	13.4	Powerwave RA21.7770.00	100	5.3	86	96	13	23.4
ATT A4	AT&T	Panel	LTE 700	914	11.2	Andrew SBNH-1D6565A	100	4.2	71	96	12	23.9
ATT A4	AT&T	Panel	LTE 1900	2083	14.8	Andrew SBNH-1D6565A	100	4.2	58	96	12	23.9
ATT B1	AT&T	Panel	LTE 700	914	11.2	Andrew SBNH-1D6565A	220	4.2	71	16	11	23.9
ATT B1	AT&T	Panel	LTE 1900	2083	14.8	Andrew SBNH-1D6565A	220	4.2	58	16	11	23.9
ATT B2	AT&T	Panel	GSM 850	2588	11.5	Powerwave RA21.7770.00	220	5.3	82	14	12	23.4
ATT B2	AT&T	Panel	GSM 1900	2528	13.4	Powerwave RA21.7770.00	220	5.3	86	14	12	23.4
ATT B3	AT&T	Panel	UMTS 850	343	11.5	Powerwave RA21.7770.00	220	5.3	82	13	14	23.4
ATT B3	AT&T	Panel	UMTS 1900	531	13.4	Powerwave RA21.7770.00	220	5.3	86	13	14	23.4
ATT B3	AT&T	Panel	UMTS 850	343	11.5	Powerwave RA21.7770.00	220	5.3	82	13	14	23.4
ATT B3	AT&T	Panel	UMTS 1900	531	13.4	Powerwave RA21.7770.00	220	5.3	86	13	14	23.4
ATT B4	AT&T	Panel	LTE 700	914	11.2	Andrew SBNH-1D6565A	220	4.2	71	12	15	23.9

Antenna Number	Operator	Antenna Type	TX Freq (MHz)	ERP (Watts)	Gain (dBd)	Antenna Model	Azimuth (deg.)	Length (feet)	Horizontal Beamwidth (Degrees)	X	Y	Z
ATT B4	AT&T	Panel	LTE 1900	2083	14.8	Andrew SBNH-1D6565A	220	4.2	58	12	15	23.9
ATT C1	AT&T	Panel	LTE 700	914	11.2	Andrew SBNH-1D6565A	340	4.2	71	12	150	23.9
ATT C1	AT&T	Panel	LTE 1900	2083	14.8	Andrew SBNH-1D6565A	340	4.2	58	12	150	23.9
ATT C2	AT&T	Panel	GSM 850	2588	11.5	Powerwave RA21.7770.00	340	5.3	82	13	151	23.4
ATT C2	AT&T	Panel	GSM 1900	2528	13.4	Powerwave RA21.7770.00	340	5.3	86	13	151	23.4
ATT C3	AT&T	Panel	UMTS 850	343	11.5	Powerwave RA21.7770.00	340	5.3	82	16	151	23.4
ATT C3	AT&T	Panel	UMTS 1900	531	13.4	Powerwave RA21.7770.00	340	5.3	86	16	151	23.4
ATT C3	AT&T	Panel	UMTS 850	343	11.5	Powerwave RA21.7770.00	340	5.3	82	16	151	23.4
ATT C3	AT&T	Panel	UMTS 1900	531	13.4	Powerwave RA21.7770.00	340	5.3	86	16	151	23.4
ATT C4	AT&T	Panel	LTE 700	914	11.2	Andrew SBNH-1D6565A	340	4.2	71	17	151	23.9
ATT C4	AT&T	Panel	LTE 1900	2083	14.8	Andrew SBNH-1D6565A	340	4.2	58	17	151	23.9

1. Note there are only 4 AT&T antennas per sector at this site. For clarity, the different frequencies for each antenna are entered on separate lines.

Appendix C

Roofview® Export File

StartVarDefinition

Roof Max Y	Roof Max X	Map Max Y	Map Max X	Y Offset	X Offset	Number of Areas	Envelope	List Of Areas
170	160	180	170	10	10	1	$U$41:FX;$U$41:$FX$210	$U$41:$FX$210

StartSettingsData

Standard	Method	Uptime	Scale Factor	Low Thr	Low Color	Mid Thr	Mid Color	Hi Thr	Hi Color	Over Color	Ap Ht Mult	Ap Ht Method
4	2	3	1	100	1	500	4	5000	2	3	1.5	1

StartAntennaData

It is advisable to provide an ID (ant 1) for all antennas

ID	Name	(MHz) Freq	Trans Power	Trans Count	Coax Len	Coax Type	Other Loss	Input Power	Calc Power	Mfg	Model	(ft) X	(ft) Y	(ft) Z	Type	(ft) Aper	dBd Gain	BWdth Pt Dir	Uptime Profile	ON flag
ATT A1	LTE	700	39.8	2	3	1/2 LDF	0.5		70.11534	Andrew	SBNH-1D6565A	97	17	23.88		4.24	11.15	71;100		ON
ATT A1	LTE	1900	39.8	2	3	1/2 LDF	0.5		69.77712	Andrew	SBNH-1D6565A	97	17	23.88		4.24	14.75	58;100		ON
ATT A2	GSM	850	50.1	6	50	7/8 LDF	1.46		183.2268	Powerwave	RA21.7770.00	97	15	23.375		5.25	11.5	82;100		ON
ATT A2	GSM	1900	31.6	6	50	7/8 LDF	1.46		115.5682	Powerwave	RA21.7770.00	97	15	23.375		5.25	13.4	86;100		ON
ATT A3	UMTS	850	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	96	13	23.375		5.25	11.5	82;100		ON
ATT A3	UMTS	1900	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	96	13	23.375		5.25	13.4	86;100		ON
ATT A3	UMTS	850	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	96	13	23.375		5.25	11.5	82;100		ON
ATT A3	UMTS	1900	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	96	13	23.375		5.25	13.4	86;100		ON
ATT A4	LTE	700	39.8	2	3	1/2 LDF	0.5		70.11534	Andrew	SBNH-1D6565A	96	12	23.88		4.24	11.15	71;100		ON
ATT A4	LTE	1900	39.8	2	3	1/2 LDF	0.5		69.77712	Andrew	SBNH-1D6565A	96	12	23.88		4.24	14.75	58;100		ON
ATT B1	LTE	700	39.8	2	3	1/2 LDF	0.5		70.11534	Andrew	SBNH-1D6565A	16	11	23.88		4.24	11.15	71;220		ON
ATT B1	LTE	1900	39.8	2	3	1/2 LDF	0.5		69.77712	Andrew	SBNH-1D6565A	16	11	23.88		4.24	14.75	58;220		ON
ATT B2	GSM	850	50.1	6	50	7/8 LDF	1.46		183.2268	Powerwave	RA21.7770.00	14	12	23.375		5.25	11.5	82;220		ON
ATT B2	GSM	1900	31.6	6	50	7/8 LDF	1.46		115.5682	Powerwave	RA21.7770.00	14	12	23.375		5.25	13.4	86;220		ON
ATT B3	UMTS	850	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	13	14	23.375		5.25	11.5	82;220		ON
ATT B3	UMTS	1900	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	13	14	23.375		5.25	13.4	86;220		ON
ATT B3	UMTS	850	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	13	14	23.375		5.25	11.5	82;220		ON
ATT B3	UMTS	1900	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	13	14	23.375		5.25	13.4	86;220		ON
ATT B4	LTE	700	39.8	2	3	1/2 LDF	0.5		70.11534	Andrew	SBNH-1D6565A	12	15	23.88		4.24	11.15	71;220		ON
ATT B4	LTE	1900	39.8	2	3	1/2 LDF	0.5		69.77712	Andrew	SBNH-1D6565A	12	15	23.88		4.24	14.75	58;220		ON
ATT C1	LTE	700	39.8	2	3	1/2 LDF	0.5		70.11534	Andrew	SBNH-1D6565A	12	150	23.88		4.24	11.15	71;340		ON
ATT C1	LTE	1900	39.8	2	3	1/2 LDF	0.5		69.77712	Andrew	SBNH-1D6565A	12	150	23.88		4.24	14.75	58;340		ON
ATT C2	GSM	850	50.1	6	50	7/8 LDF	1.46		183.2268	Powerwave	RA21.7770.00	13	151	23.375		5.25	11.5	82;340		ON
ATT C2	GSM	1900	31.6	6	50	7/8 LDF	1.46		115.5682	Powerwave	RA21.7770.00	13	151	23.375		5.25	13.4	86;340		ON
ATT C3	UMTS	850	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	16	151	23.375		5.25	11.5	82;340		ON
ATT C3	UMTS	1900	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	16	151	23.375		5.25	13.4	86;340		ON
ATT C3	UMTS	850	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	16	151	23.375		5.25	11.5	82;340		ON
ATT C3	UMTS	1900	39.8	1	50	7/8 LDF	1.46		24.25957	Powerwave	RA21.7770.00	16	151	23.375		5.25	13.4	86;340		ON
ATT C4	LTE	700	39.8	2	3	1/2 LDF	0.5		70.11534	Andrew	SBNH-1D6565A	17	151	23.88		4.24	11.15	71;340		ON
ATT C4	LTE	1900	39.8	2	3	1/2 LDF	0.5		69.77712	Andrew	SBNH-1D6565A	17	151	23.88		4.24	14.75	58;340		ON

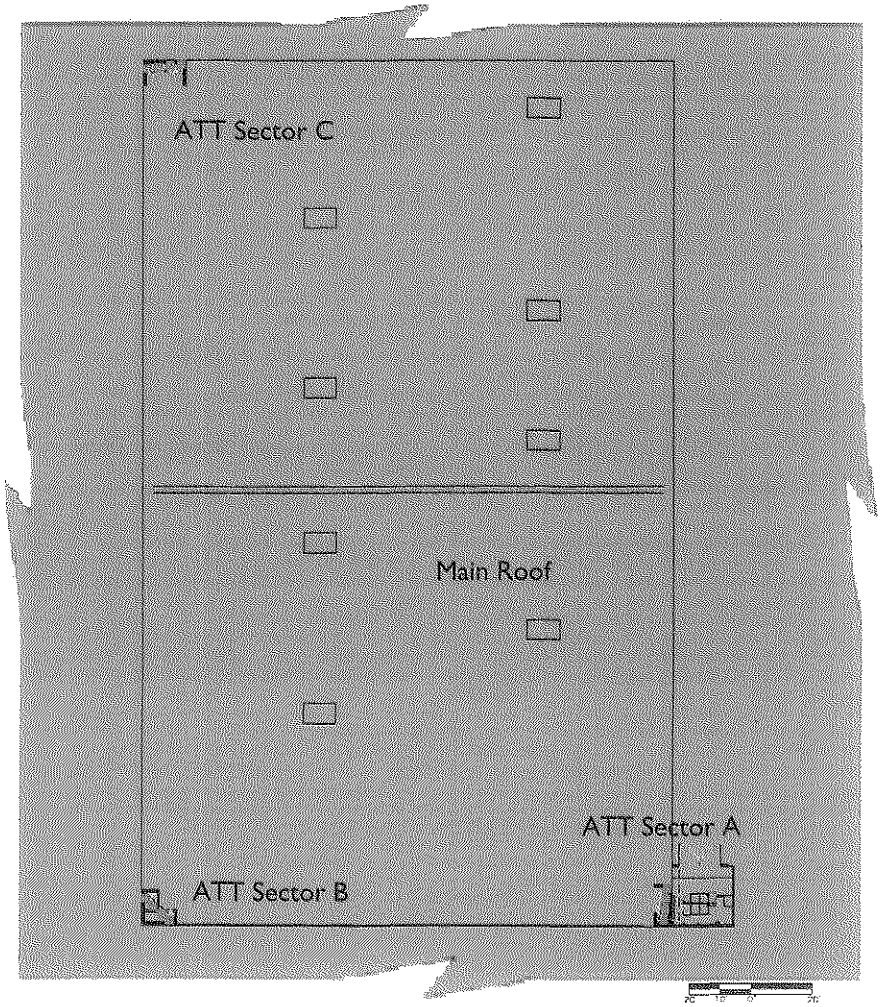
StartSymbolData

Sym	Map Marker	Roof X	Roof Y	Map Label	Description (notes for this table only)
Sym		5	35	AC Unit	Sample symbols
Sym		14	5	Roof Access	
Sym		45	5	AC Unit	
Sym		45	20	Ladder	

Appendix D

Roofview® Graphics

AT&T Antennas



% FCC Public Exposure Limit
Exposure Level ≥ 5,000
500 < Exposure Level ≤ 5,000
100 < Exposure Level ≤ 500
Exposure Level ≤ 100

Roofview: Composite Exposure Levels

Facility Operator: AT&T Mobility

Site Name: Lucas-1533 Del Amo

AT&T Site Number: LA0105

USID Number: 25665

Report Date: December 11, 2013

EBI Consulting

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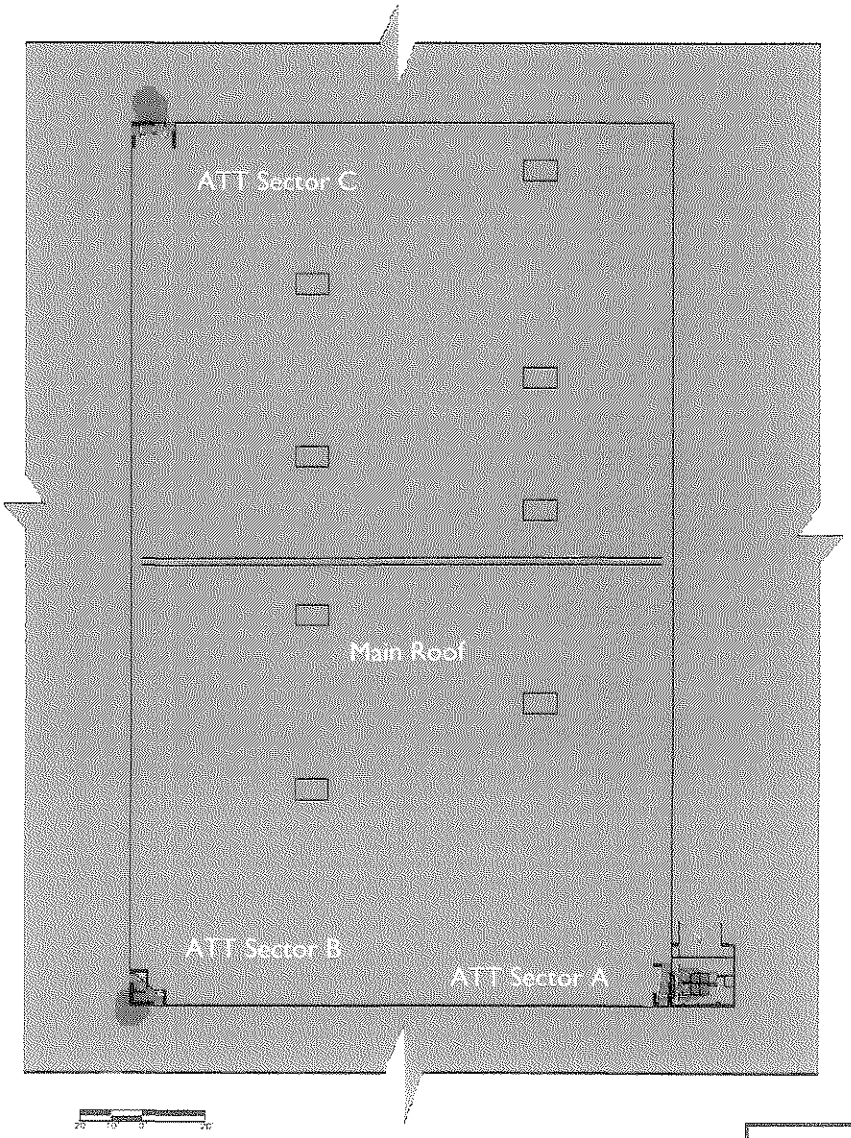
AT&T Antennas



% FCC Public Exposure Limit	
	Exposure Level > 5
	Exposure Level ≤ 5

Note that the areas shown in brown are where AT&T antennas contribute more than 5% of the FCC's general exposure RF limit. These do not overlap any areas in front of other carrier antennas exceeding the FCC's general exposure RF limit because there are no other carriers as shown in Figure 1. Under FCC regulations, AT&T is therefore not responsible for any predicted exceedances of another carrier's antennas.

Roofview: AT&T Exposure Levels

Facility Operator: AT&T Mobility
Site Name: Lucas-1533 Del Amo
AT&T Site Number: LA0105
USID Number: 25665
Report Date: December 11, 2013

EBI Consulting

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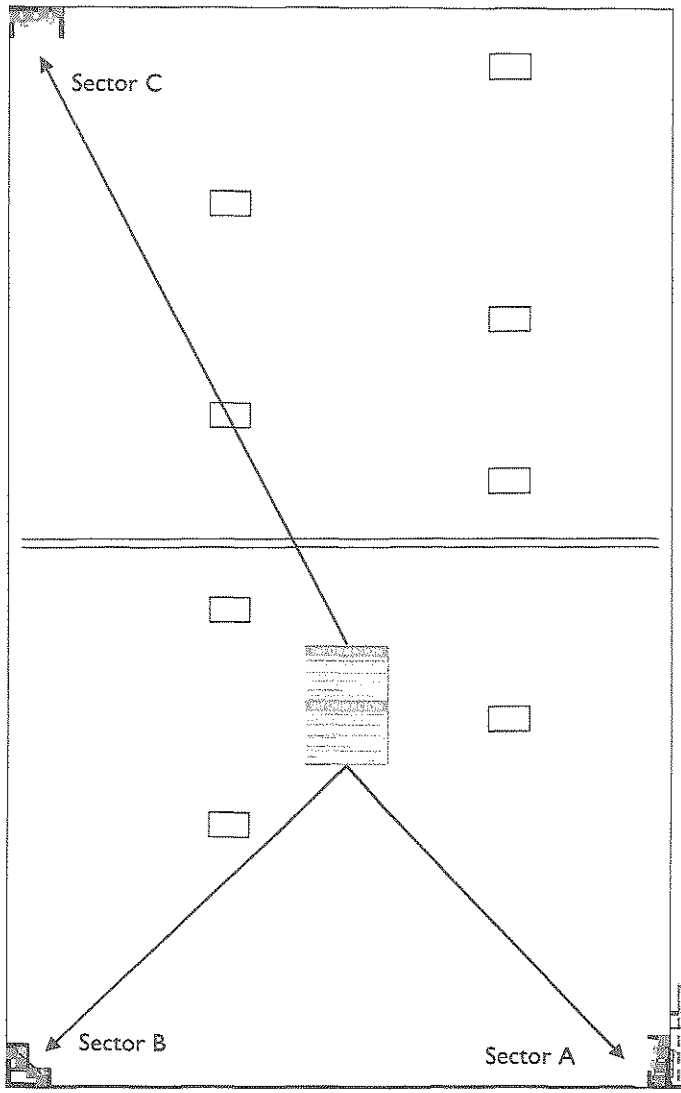
Appendix E

Compliance/Signage Plan



*Post at each Roof Access Point

AT&T Antennas

Sign Identification Legend			
	Denotes AT&T Information Sign 1		Denotes AT&T NOTICE Sign
	Denotes AT&T Information Sign 2		Denotes AT&T CAUTION Sign
	Denotes AT&T Information Sign 3		Denotes AT&T CAUTION Tower Sign
	Denotes AT&T Information Sign 4		Denotes AT&T WARNING Sign

Compliance/Signage Plan
Facility Operator: AT&T Mobility
Site Name: Lucas-1533 Del Amo
AT&T Site Number: LA0105
USID Number: 25665
Report Date: December 11, 2013

EBI Consulting

ERICSSON

February 19, 2014

McKina Alexander
Planning Division
City of Carson
701 E. Carson Street, Carson, CA 90749

Re: AT&T Noise Attenuation Notice (MEMO)
Cell Site # LA0105 AT&T Cell Site Located at: 1533 E. Del Amo Blvd., DOR No. 1519-13-AT&T (Rooftop)

Dear McKina:

I'm sending this letter today as a Noise Attenuation Notice (MEMO) for AT&T's Project LA0105 located at 1533 E. Del Amo Blvd., DOR No. 1519-13-AT&T (Rooftop). AT&T has an existing Zoning Approved cellular site at this location and they are proposing to change out the antennas with new stealthing covering to make sure the antennas truly cannot be seen. There will be no changes or additions to the existing equipment and lease space area.

The original FRP to hold the original antennas was zoning approved along with the existing AT&T equipment for the site located on the ground. The existing AT&T equipment on the ground is the location where there would be any noise at all, and not from the antennas that are roof mounted behind a proposed stealth enclosure. There is no change or revision to the equipment on the ground.

If there was a concern about any noise of any kind it was taken into consideration and approved as is within the original zoning approval. All of the proposed rooftop antennas especially with the FRP Stealth covering the antennas don't have the capability to make any noise.

EXHIBIT NO. 04

There is no available noise study of any kind that registers equipment that have no capability in any way to make any noise. The scope of work for this project is to remove and replace the existing antennas and there is no noise or sound coming from any of the antennas. There will be no expansion to the lease area or new equipment area needed for this project.

Should you have any questions, please contact Gary Cassel, AT&T Civil Team C/O Ericsson, Inc.

Gary Cassel

Respectfully yours,

AT&T Mobility

BY: Ericsson, its Project Manager

GARY CASSEL
Site Development Manager II
Orange County/Los Angeles
AT&T Civil Team

Ericsson
330 Commerce Suite 200
Irvine Ca 92602, USA
Phone 602-762-8809
Gary.Cassel@ericsson.com

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EXHIBIT NO. 05

LTE Justification Plots

Market Name: Los Angeles

Site ID: CLL02670 (LA0105)

Site Name: LA0105-01 DEL AMO TAJAUTA

ATOLL Plots Completion Date: 09/18/2013

at&t

Assumptions

•Propagation of the site plots are based on our current Atoll (Design tool) project tool that shows the preferred design of the AT&T **4G-LTE** network coverage.

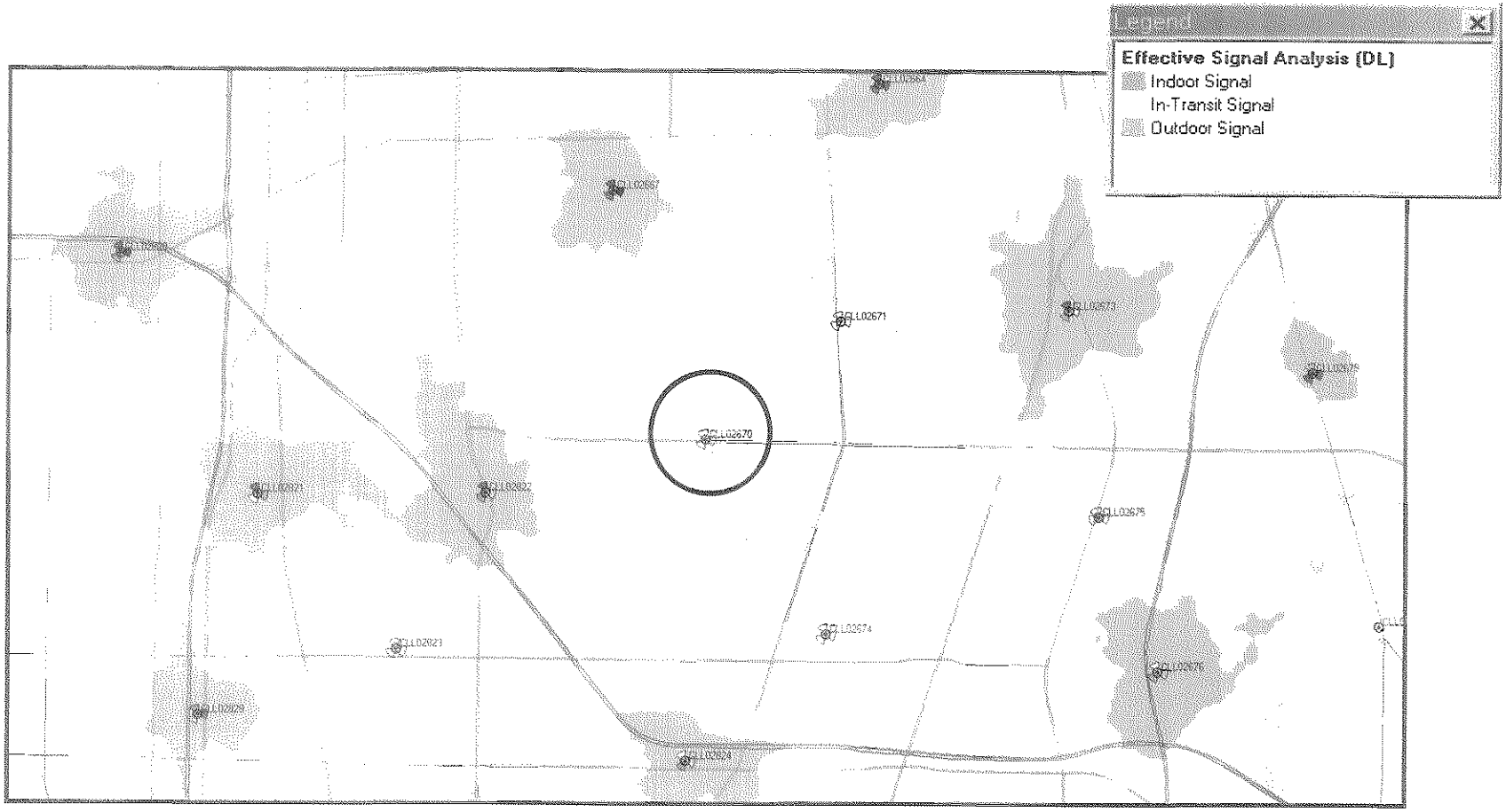
• The propagation referenced in this package is based on proposed LTE coverage of AT&T users in the surrounding buildings, in vehicles and at street level . For your reference, the scale shown ranges from good to poor coverage with gradual changes in coverage showing best coverage to marginal and finally poor signal levels.

•The plots shown are based on the following criteria:

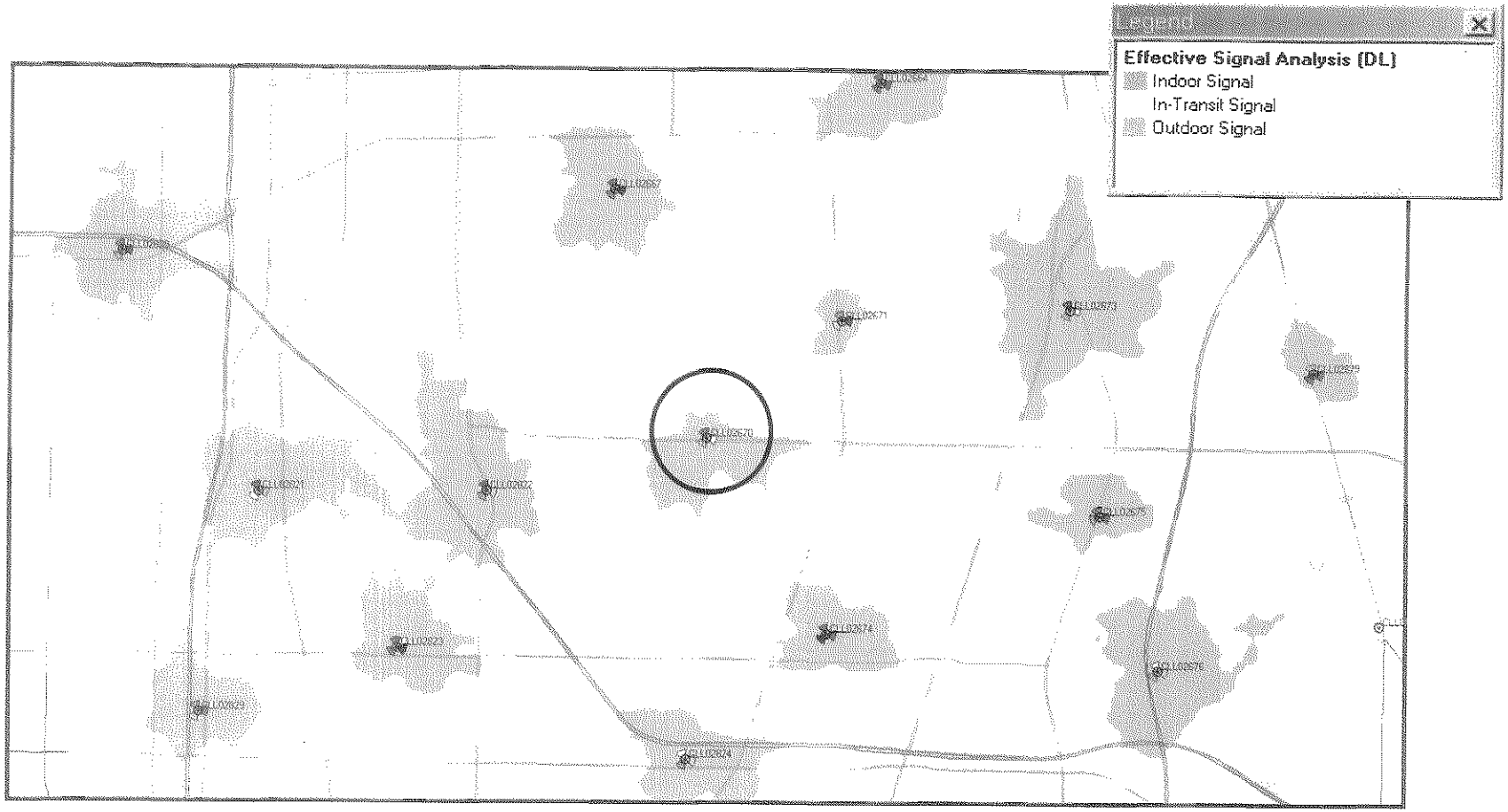
- **Existing**: Since LTE network modifications are not yet **On-Air**. The first slide is a snap shot of the area showing the existing site without LTE coverage in the AT&T network.
- **The Planned LTE Coverage with the Referenced Site**: Assuming all the planned neighboring sites of the target site are approved by the jurisdiction and the referenced site is also approved and **On-Air,** the propagation is displayed with the planned legends provided.
- **Without Target site**: Assuming all the planned neighboring sites are approved by the jurisdiction and **On-Air** and the referenced site is **Off-Air**, the propagation is displayed with the legends provided.
- **Clutter Classes**: Morphology of the area is added at the end of the document with the legend displaying different colors for the different topography of the area.

PROPAGATION PLOTS

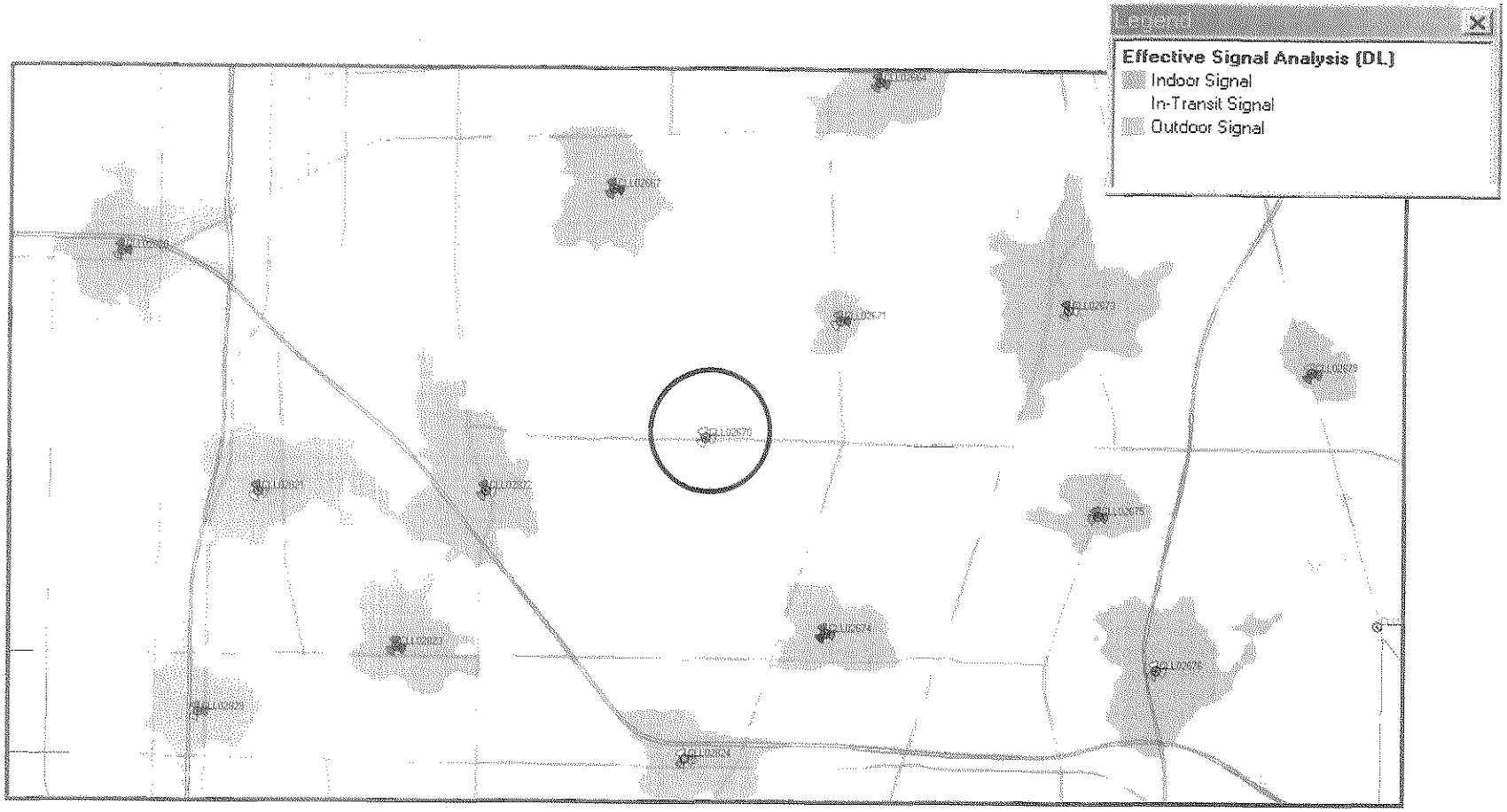
LTE Coverage – Existing



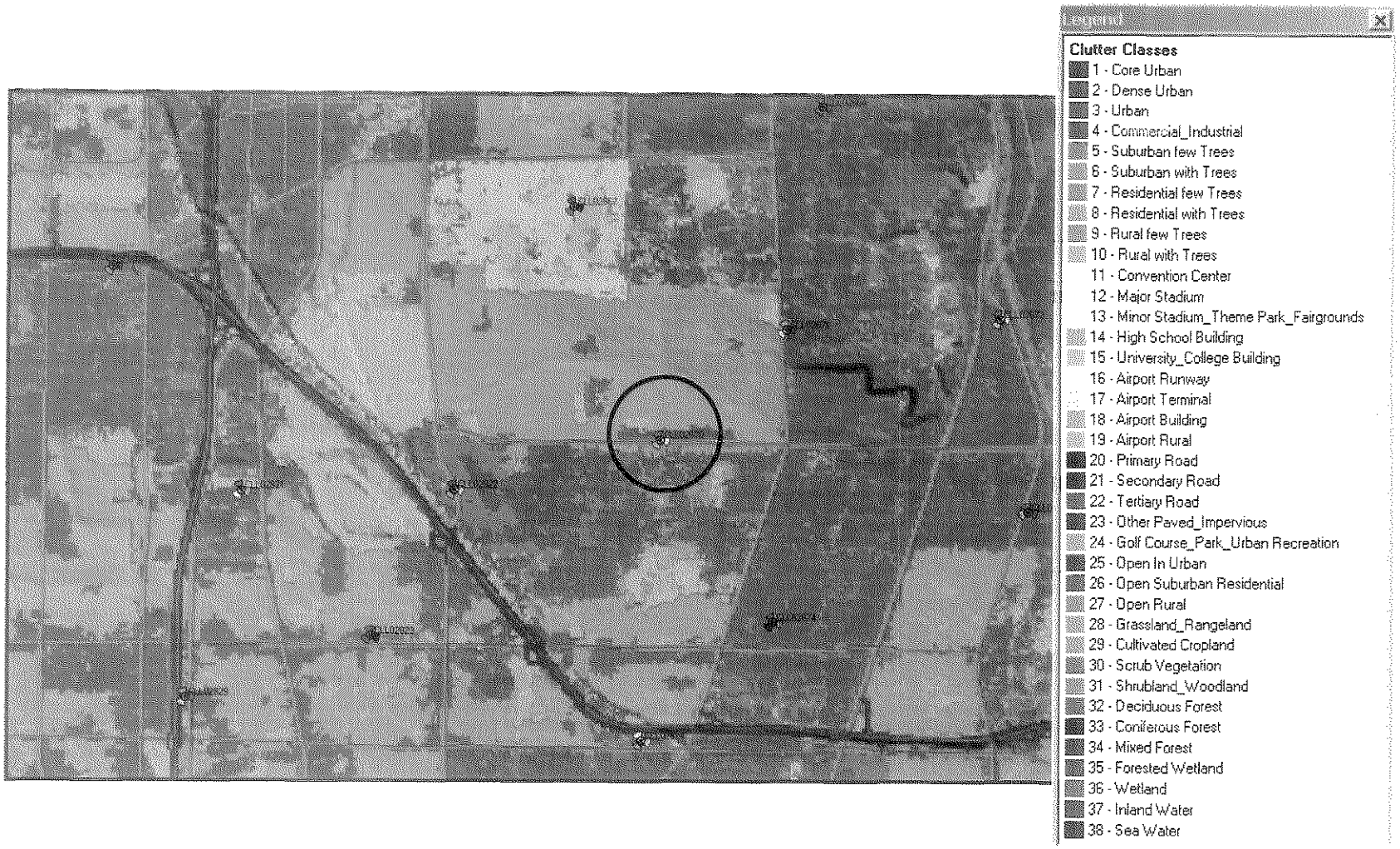
LTE Coverage – Planned LTE coverage with the referenced site and other proposed sites. RSRP Plots with CLL02670 (dBm)



LTE Coverage – Planned LTE Coverage without referenced site RSRP Plots without CLL02670 (dBm)



Clutter Classes



CITY OF CARSON

PLANNING COMMISSION

RESOLUTION NO. 14-

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF CARSON APPROVING DESIGN OVERLAY REVIEW NO. 1519-13 TO PERMIT MODIFICATION OF AN EXISTING ROOF-MOUNTED COMMUNICATIONS FACILITY ON A PROPERTY LOCATED AT 1533 EAST DEL AMO BOULEVARD

THE PLANNING COMMISSION OF THE CITY OF CARSON, CALIFORNIA, HEREBY FINDS, RESOLVES AND ORDERS AS FOLLOWS:

Section 1. An application was duly filed by the applicant, Gary Cassell of Ericsson, Inc. on behalf of AT&T Mobility, with respect to real property located at 1533 East Del Amo Boulevard, and described in Exhibit "A" attached hereto, approving Design Overlay Review No. 1519-13 for modification of an existing roof-mounted communications facility located within 100 feet of a residential zone on a developed property in the ML-D (Manufacturing, Light – Design Overlay) zoning district.

A public hearing was duly held on April 8, 2014, at 6:30 P.M. at City Hall, Helen Kawagoe Council Chambers, 701 East Carson Street, Carson, California. A notice of time, place and purpose of the aforesaid meeting was duly given.

Section 2. Evidence, both written and oral, was duly presented to and considered by the Planning Commission at the aforesaid meeting.

Section 3. The Planning Commission finds that:

a) The General Plan designates the property as Light Industrial which is consistent with the subject property zoning designation of ML-D (Manufacturing, Light – Design Overlay). The continued use and development of the existing roof-mounted communication facility is consistent with the neighboring industrial, residential and open space uses, promotes sustainable communication systems that meet the needs of the community and is appropriate for the subject property as proposed.

b) Modification to the facility includes the replacement of the existing antennas on the east and west corners of the front of the building along Del Amo Boulevard and construction of a third sector on the north side (rear) of the building located within 100 feet of a residential zone. Eight-foot-high screen walls blend the facility with the existing building. Each sector consists of four 8-foot-high antennas totaling 12 antennas, six (6) new remote radio units (two per sector) and related equipment. The modification increases the height to the top of the facility from 28 feet to 30 feet. The existing 162-square-foot lease area for the ground-mounted equipment will remain the same. The project design is compatible with existing and anticipated development in the vicinity, including the aspects of site planning, land coverage, landscaping, appearance and scale of structures and open spaces and other features relative to a harmonious and attractive development of the area.

c) The site is a large industrial site with adequate shape, topography, location, and utilities to accommodate the proposed use and development. The west and

EXHIBIT NO. 06

45

east adjacent properties land uses are primarily industrial with residential properties located north of the subject site. The proposed project is compatible with those uses.

d) The roof-mounted facility will require occasional maintenance visits and is otherwise not occupied, therefore the off-street parking requirements will not be affected and circulation on the adjacent public streets will not be significantly impacted. Adequate access is provided to the site from Del Amo Boulevard. Safety and convenience of vehicular and pedestrian access is provided with the on-site driveway.

e) The property is rectangular-shaped and has trees located along Del Amo Boulevard. The property is paved with some landscaping, and parking will not be affected. The applicant proposes to install screen walls with decorative cornices designed as an architecturally-compatible feature to blend the facility with the existing building.

f) The existing parking will not be affected. The driveway widths and parking spaces will remain code-compliant, thereby adequately maintaining the convenience and safety of circulation for pedestrians and vehicles.

g) The top of the facility will be increased from 28 feet to 30 feet in height and is in compliance with the maximum height described in Section 9138.16(F) of the Carson Municipal Code (CMC). The Planning Commission finds the proposed height does not result in a degradation of the environment or be visually obtrusive to the surrounding area.

h) Apart from the required safety, directional or informational signs, no product advertising signs are proposed for the project.

i) The roof-mounted facility meets the goals and objectives of the General Plan and is consistent with applicable zoning and design regulations. Therefore all of the required findings pursuant to Section 9172.23, "Site Plan and Design Review," are made in the affirmative.

j) The facility has been operating at the site for about 10 years and no collocation is proposed at this time. Records show that the determining factors in site selection included the ability to lease the necessary property, ability to construct the proposed site, conformance to the zoning code (at that time), and the ability to provide adequate radio frequency coverage and connect to surrounding network sites.

k) The existing use and development is consistent with General Plan goals, which include promoting sustainable energy, communication, and other systems which meet the needs of the community. The property is an industrial multi-tenant site with a General Plan land use designation of Light Industrial. The existing roof-mounted facility is a permitted use and is consistent with the surrounding development.

l) The subject property is a developed 2-acre industrial site. It is located along a developed arterial street and is surrounded by developed properties that are

served by adequate infrastructure and utilities. Thus there are adequate utilities to provide and maintain service to the existing use.

m) Access to the existing facility for routine maintenance or emergency repair will continue to be provided, so the existing facility will not impact traffic in the vicinity.

n) The property and surrounding area are developed and adequate water supply and utilities exist for the area.

Section 4. The Planning Commission further finds that the existing use will not have a significant effect on the environment. The use will not adversely augment the character of the surrounding area and will meet or exceed all City standards for protection of the environment. Therefore, the proposed project is found to be categorically exempt pursuant to the California Environmental Quality Act (CEQA) Guidelines, Section 15301 – Existing Facilities.

Section 5. Based on the aforementioned findings, the Commission hereby approves Design Overlay Review No. 1519-13 with respect to the properties described in Section 1 hereof, subject to the conditions set forth in Exhibit "B" attached hereto.

Section 6. The Secretary shall certify to the adoption of the Resolution and shall transmit copies of the same to the applicant.

Section 7. This action shall become final and effective fifteen days after the adoption of this Resolution.

PASSED, APPROVED AND ADOPTED THIS 8th DAY OF APRIL, 2014

_____
CHAIRMAN

ATTEST:

_____
SECRETARY

EXHIBIT "A"

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCELS 2 AND 3 OF PARCEL MAP NO. 751, IN THE CITY OF CARSON, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 18, PAGE 16 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AS GRANTED IN THE DEED DATED DECEMBER 1, 1970, TO CALINDA PROPERTIES, A JOINT VENTURE, RECORDED DECEMBER 30, 1970 IN BOOK D-4930, PAGE 747, OFFICIAL RECORDS, INCLUDING THE LAND AND ALL BUILDINGS AND IMPROVEMENTS THEREON.

EXCEPT ALL 100 PER CENT OF THE OIL, GAS, PETROLEUM, AND OTHER HYDROCARBON SUBSTANCES WHICH LIE BELOW A PLANE PARALLEL TO AND 500 FEET BELOW THE NATURAL SURFACE OF SAID LAND WITHOUT, HOWEVER, ANY RIGHT TO ENTER UPON THE SURFACE OF SAID LAND TO EXPLORE FOR, DEVELOP, OR REMOVE SAID SUBSTANCES, BUT WITH FULL RIGHT TO EXPLORE FOR, DEVELOP, OR REMOVE SAID SUBSTANCES, BUT WITH FULL RIGHT TO EXPLORE FOR, DEVELOPMENT AND REMOVE THE SAME BY MEANS OF WELLS OR EQUIPMENT, HAVING SURFACE LOCATIONS OUTSIDE BOUNDARIES OF SAID REAL PROPERTY, AS EXCEPTED IN THE DEED FROM DEL AMO ESTATE COMPANY, A CORPORATION, RECORDED NOVEMBER 8, 1953 IN BOOK D-2250, PAGE 752, OFFICIAL RECORDS.

APN: 7380-011-024

CITY OF CARSON

COMMUNITY DEVELOPMENT

PLANNING DIVISION

EXHIBIT "B"

CONDITIONS OF APPROVAL

DESIGN OVERLAY REVIEW NO. 1519-13

GENERAL CONDITIONS

1. Obtain a building permit and approved final inspection for the modification.

2. If the implementation of Design Overlay Review No. 1519-13 is not submitted to the City of Carson within one year of their effective dates, said permits shall be declared null and void unless an extension of time is previously approved by the Planning Commission.

3. The approved Resolution, including the Conditions of Approval contained herein, and signed Affidavit of Acceptance, shall be copied in their entirety and placed directly onto a separate plan sheet behind the cover sheet of the development plans prior to Building and Safety plan check submittal. Said copies shall be included in all development plan submittals, including any revisions and the final working drawings.

4. The applicant shall submit two complete sets of plans that conform to all the Conditions of Approval to be reviewed and approved by the Planning Division prior to the issuance of a building permit.

5. The applicant shall comply with all city, county, state and federal regulations applicable to this project.

6. The applicant shall make any necessary site plan and design revisions to the site plan and elevations approved by the Planning Commission in order to comply with all the conditions of approval and applicable Zoning Ordinance provisions. Substantial revisions will require review by the Planning Commission.

7. The applicant and property owner shall sign an Affidavit of Acceptance form and submit the document to the Planning Division within 30 days of receipt of the Planning Commission Resolution.

8. It is further made a condition of this approval that if any condition is violated or if any law, statute or ordinance is violated, this permit may be revoked by the Planning Commission or City Council, as may be applicable; provided the applicant has been given written notice to cease such violation and has failed to do so for a period of thirty days.

9. A modification of the conditions of this permit, including additions or deletions may be considered upon filing of an application by the owner of the subject property or his/her authorized representative in accordance with Section 9173.1 of the Zoning Ordinance.

10. Decision of the Planning Commission shall become effective and final 15 days after the date of its action unless an appeal is filed in accordance with Section 9173.4 of the Zoning Ordinance.

11. Precedence of Conditions. If any of the Conditions of Approval alter a commitment made by the applicant in another document, the conditions enumerated herein shall take precedence unless superseded by a Development agreement, which shall govern over any conflicting provisions of any other approval.

12. City Approvals. All approvals by City, unless otherwise specified shall be by the department head of the department requiring the condition. All agreements, covenants, easements, deposits and other documents required herein where City is a party shall be in a form approved by the City Attorney. The Developer shall pay the cost for review and approval of such agreements and deposit necessary funds pursuant to a deposit agreement.

13. The operator of a lawfully erected facility, and the owner of the premises upon which it is located, shall promptly notify the Planning Division in writing in the event that the use of the facility is discontinued for any reason. In the event the facility is discontinued or abandoned for a period of more than 180 days, then the owner(s) and/or operator(s) shall promptly remove the facility, repair any damage to the premises caused by such removal, and restore the premises as appropriate so as to be in conformance with applicable zoning codes at the owner's and/or operator's expense. All such removal, repair and restoration shall be completed within 90 days after the use is discontinued or abandoned, and shall be performed in accordance with all applicable health and safety requirements.

14. The Applicant shall defend, indemnify and hold harmless the City of Carson, its agents, officers, or employees from any claims, damages, action, or proceeding against the City or its agents, officers, or employees to attack, set aside, void or annul, and approval of the City, its advisory agencies, appeal boards, or legislative body concerning Design Overlay Review No. 1519-13. The City will promptly notify the Applicant of any such claim, action, or proceeding against the City and the Applicant will either undertake defense of the matter and pay the City's associated legal costs or will advance funds to pay for defense of the matter by the City Attorney. The City will cooperate fully in the defense. Notwithstanding the foregoing, the City retains the right to settle or abandon the matter without the Applicant's consent but should it do so, the City shall waive the indemnification herein, except, the City's decision to settle or abandon a matter following an adverse judgment or failure to appeal, shall not cause a waiver of the indemnification rights herein. The applicant shall provide a deposit in the amount of 100 percent of the City's estimate, in its sole and absolute

discretion, of the cost of litigation, including the cost of any award of attorney's fees, and shall make additional deposits as requested by the city to keep the deposit at such level. The City may ask for further security in the form of a deed of trust to land of equivalent value. If the applicant fails to provide or maintain the deposit, the City may abandon the action and the applicant shall pay all costs resulting therefrom and the City shall have no liability to the applicant.

PLANNING

15. All parking areas and driveways shall remain clear and maintained. No encroachment into parking areas and/or driveways shall be permitted.

16. The display of any sign or any other graphic on a wireless communications facility or on its screening is prohibited, except for signs for health, safety, and welfare purposes, which is required to be posted in case of an emergency. Emergency signs shall be visibly posted at the facility and shall include contact information including the phone number of the utility provider.

17. All wireless communications facilities shall be constructed and operated in such a manner as to meet the requirements of the Noise Ordinance.

18. Backup generators shall only be operated during power outages and for testing and maintenance purposes.

19. The roof-mounted facility shall be maintained in good condition at all times and shall be painted to match the building. If the paint fades or the facility becomes in disrepair the applicant shall make appropriate improvements to the satisfaction of the Planning Division within three days of notification by the City.

20. Future modifications to the approved development plans, including the installation of additional panels and equipment cabinetry, shall be subject to Planning Division review and approval. If deemed to be a major modification, the Planning Commission shall be the approval authority.

21. The City reserves the right to bring the project back for review and consideration should Section 6409(a) of the Middle Class Tax Relief and Job Creation Act of 2012 be modified or repealed. However, the City agrees that should said law be repealed or modified, the City will wait a minimum of 3 years, from the date of the Planning Commission approval, prior to bringing the project back for review and reconsideration. In the event the law is repealed or modified after said 3 year period, the City may bring back the project for review and reconsideration at any time.

22. A faithful performance bond shall be submitted to ensure compliance with City codes and standards, and the removal of abandoned antennas or facilities.

BUILDING AND SAFETY

23. Submit for plan check, obtain all building permits and have a final inspection conducted to modify the existing roof-mounted facility and related equipment.

FIRE DEPARTMENT - COUNTY OF LOS ANGELES

24. Battery backup and storage areas shall be constructed and maintained in compliance with Article 64 of the uniform Fire Code (UFC).

25. Prior to the issuance of a Building Permit, Proof of Worker's Compensation and Liability Insurance must be on file with the Los Angeles County Building and Safety Department.

ENGINEERING SERVICES

26. Any City-owned improvement damaged during the construction of a proposed project shall be removed and reconstructed per City Standard Plan and to the satisfaction of the City Engineer prior to the issuance of a building permit.

BUSINESS LICENSE DEPARTMENT - CITY OF CARSON

27. Per section 6310 of the Carson Municipal Code, all parties involved in the operation of the existing communications facility located at 1533 E. Del Amo Boulevard, including but not limited to contractors and subcontractors, will need to obtain a City Business License.