



CITY OF SUNNYVALE REPORT ZONING ADMINISTRATOR HEARING

February 16, 2011

File Number: 2010-7918

Permit Type: Use Permit

Location: 704 Daffodil Ct. (near Gail Ave.) (APN: 211-07-002)

Applicant/Owner: AT&T / City of Sunnyvale

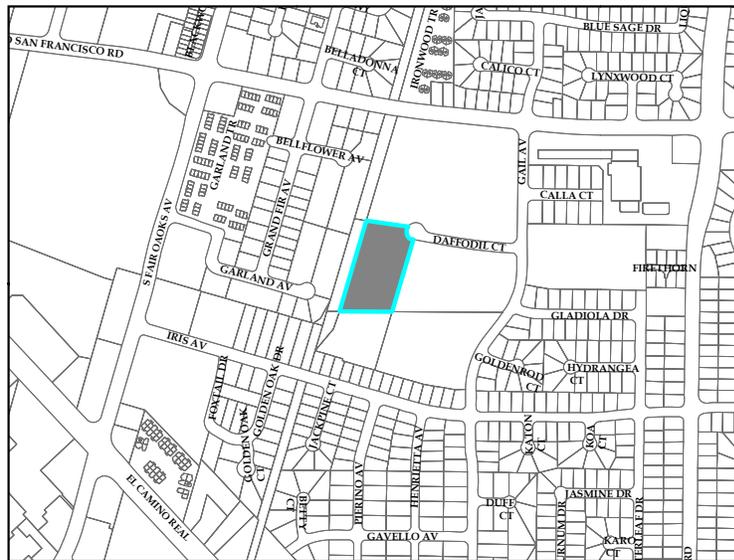
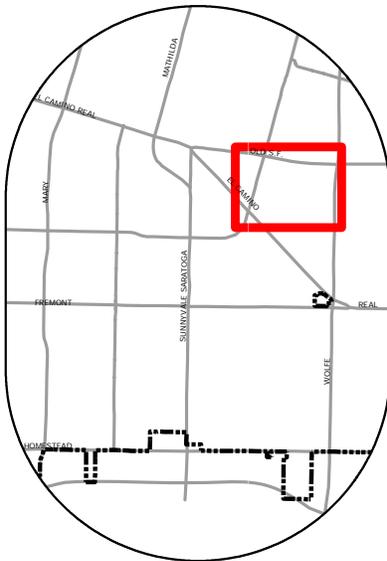
Staff Contact: Ryan Kuchenig, Associate Planner, (408) 730-7431

Project Description: To allow modifications to an existing telecommunications facility (AT&T) at Braly Park including the installation of three new panel antennas and associated equipment on a PG&E tower. An additional cabinet is to be placed within the existing fenced enclosure underneath the tower.

Reason for Permit: A Use Permit is required for the modification to an existing facility that would enable additional antennas.

Issues: Aesthetics

Recommendation: Approve with Conditions



500

Feet

PROJECT DESCRIPTION

	Existing	Proposed
General Plan:	Park	Same
Zoning District:	Public Facility (PF)	Same
Lot Size	3.1 acres	Same
Height of Antennas on Transmission Tower	46' and 52'	Same

Previous Planning Projects related to Subject Application: The site was originally approved for a telecommunication facility in 2000. In May of 2010, a proposal was approved to allow the replacement of the six previously approved antennas for the facility. The replacement antennas were slightly larger than the existing antennas. The facility was also modified with replacement antennas in 2006 through a Miscellaneous Plan Permit application. A telecommunication facility is located on a separate nearby PG&E tower in Braly Park to the southeast.

Use Description & Site Layout: The proposed use is to allow three panel antenna and a GPS antenna on an existing telecommunication facility positioned on a PG&E transmission tower at Braly Park. Additional supporting equipment would be positioned on each of the three antenna sectors. More detail of the new equipment is provided in the applicant's description in Attachment C. The existing antennas will be reconfigured so that the new antennas can be located at the same height on the tower. There is also a telecommunication facility located on a nearby PG&E transmission tower to the southeast. The proposed telecommunications antennas, operated by AT&T, would be positioned on three sectors at two vertical sections of the tower (46' and 52' above the ground). Additional ground equipment that supports the antennas would be located in an existing fenced shelter directly underneath the tower.

The property has frontage along Daffodil Court to the north; however, the tower may be more visible along Iris Avenue which is south of the park. A row of single family homes separate the park from Iris Avenue. An access road connecting the two streets lies along the west side of the park adjacent to the tower.

Design: The additional antennas are approximately the same size (4' long) as the existing antennas but in order to accommodate them, the equipment will project further out than the current installation. Existing and proposed elevations are shown on page 7 (A-5) of Attachment B. Photosimulations are also included in Attachment D. As conditioned, the antennas are to be positioned as close as possible to the tower and painted to match (C.O.A #BP-1).

Public Contact: 318 notices were sent to surrounding property owners and residents adjacent to subject site in addition to standard noticing practice. No letters were received.

Environmental Determination: A Categorical Exemption Class 1 (minor additions to existing facilities) relieves this project from CEQA provisions.

FINDINGS

In order to approve the Use Permit the following findings must be made:

1. The proposed use attains the objectives and purposes of the General Plan of the City of Sunnyvale.

Land Use and Transportation Sub-Element

Policy Statement N1.3 - Promote an attractive and functional commercial environment.

Policy Statement N1.5 - Establish and monitor standards for community appearance and property maintenance.

Telecommunications Policy

Council Policy Manual: Telecommunications - The City of Sunnyvale's Council Policy Manual (CPM) is a compendium of policies established by City Council resolution or motion which provide guidelines for current or future City action. Such policies, when implemented, assist in achieving General Plan goals.

Policy Statement 1.A.5 - Support retention of local zoning authority for cellular towers, satellite dish antennas, and other telecommunications equipment, facilities and structures.

Policy Statement 2 - Promote universal access to telecommunications services for all Sunnyvale residents

The Wireless Telecommunications Policy promotes retention of local zoning authority when reviewing telecommunications facilities. The zoning code requires that the location of telecommunication facilities be designed with sensitivity to the surrounding areas. The proposed facility is compliant with all wireless telecommunication development standards:

- *The project, in addition to existing facilities on-site, meets all FCC RF emissions standards.*

- *The facility will be painted to match the tower.*
- *Associated equipment is screened and located within an existing shelter under the tower.*

Staff was able to make the findings as the design meets the guidelines described above.

2. The proposed use ensures that the general appearance of proposed structures, or the uses to be made of the property to which the application refers, will not impair the orderly development of, or the existing uses being made of, adjacent properties.

Staff finds that the additional antennas will have limited aesthetic impact to the surrounding area. Recommended Conditions of Approval ensure adequate signage and current information is maintained.

ALTERNATIVES:

1. Approve the Use Permit with recommended Conditions in Attachment A.
2. Approve the Use Permit with modifications.
3. Deny the Use Permit.

RECOMMENDATION

Alternative 1. Approve the Use Permit with recommended Conditions in Attachment A.

Reviewed by:

Shaunn Mendrin
Senior Planner

Prepared By: Ryan Kuchenig, Associate Planner

Attachments:

- A. Standard Requirements and Recommended Conditions of Approval
- B. Site and Architectural Plans
- C. Project Description from the Applicant
- D. Photosimulations
- E. RF Emissions Study

**RECOMMENDED
CONDITIONS OF APPROVAL AND
STANDARD DEVELOPMENT REQUIREMENTS
February 16, 2011**

**Planning Application 2010-7918
704 Daffodil**

Use Permit to allow modifications to an existing telecommunications facility (AT&T) at Braly Park including the installation of three new panel antennas and associated equipment on a PG&E tower.

The following Conditions of Approval [COA] and Standard Development Requirements [SDR] apply to the project referenced above. The COAs are specific conditions applicable to the proposed project. The SDRs are items which are codified or adopted by resolution and have been included for ease of reference, they may not be appealed or changed. The COAs and SDRs are grouped under specific headings that relate to the timing of required compliance. Additional language within a condition may further define the timing of required compliance. Applicable mitigation measures are noted with "Mitigation Measure" and placed in the applicable phase of the project.

In addition to complying with all applicable City, County, State and Federal Statutes, Codes, Ordinances, Resolutions and Regulations, Permittee expressly accepts and agrees to comply with the following Conditions of Approval and Standard Development Requirements of this Permit:

**GC: THE FOLLOWING GENERAL CONDITIONS OF APPROVAL AND
STANDARD DEVELOPMENT REQUIREMENTS SHALL APPLY TO THE
APPROVED PROJECT.**

GC-1. CONFORMANCE WITH APPROVED PLANNING APPLICATION:

All building permit drawings and subsequent construction and operation shall substantially conform with the approved planning application, including: drawings/plans, materials samples, building colors, and other items submitted as part of the approved application. Any proposed amendments to the approved plans or Conditions of Approval are subject to review and approval by the City. The Director of Community Development shall determine whether revisions are considered major or minor. Minor changes are subject to review and approval by the Director of Community Development. Major changes are subject to review at a public hearing. [COA] [PLANNING]

GC-2 COMPLY WITH APPLICABLE REGULATIONS:

The facility must comply with any and all applicable regulations and standards promulgated or imposed by any state or federal agency, including but not limited to the Federal Communications Commission and Federal Aviation Agency.[SDR] [PLANNING]

GC-3 PERMIT EXPIRATION:

The permit shall be null and void two years from the date of approval by the final review authority at a public hearing if the approval is not exercised, unless a written request for an extension is received prior to expiration date and is approved by the Director of Community Development. [SDR] (PLANNING)

GC-4 TESTING WITHIN 15 DAYS:

The applicant shall test any wireless telecommunications site installed in the City of Sunnyvale within 15 days of operating the facility. The test shall confirm that any Emergency 911 wireless call made through the wireless telecommunications site shall provide Enhanced 911 capability (including phase 2 information when available from the caller's device) and direct the call to the City of Sunnyvale Department of Public Safety dispatcher, ensuring phase 2 information is transferred. If the call is to be directed elsewhere pursuant to State and Federal law the applicant shall ensure that the Enhanced 911 information transfers to that dispatch center. This capability shall be routinely tested to ensure compliance as long as the approved wireless telecommunications site is in service. [SDR] [PLANNING]

GC-5 HOLD HARMLESS:

The wireless telecommunication facility provider shall defend, indemnify, and hold harmless the city or any of its boards, commissions, agents, officers, and employees from any claim, action or proceeding against the city, its boards, commission, agents, officers, or employees to attack, set aside, void, or annul, the approval of the project when such claim or action is brought within the time period provided for in applicable state and/or local statutes. The city shall promptly notify the provider(s) of any such claim, action or proceeding. The city shall have the option of coordinating in the defense. Nothing contained in this stipulation shall prohibit the city from participating in a defense of any claim, action, or proceeding if the city bears its own attorney's fees and costs, and the city defends the action in good faith. [SDR] [PLANNING]

GC-6 LIABILITY:

Facility lessors shall be strictly liable for any and all sudden and accidental pollution and gradual pollution resulting from their use

within the city. This liability shall include cleanup, intentional injury or damage to persons or property. Additionally, lessors shall be responsible for any sanctions, fines, or other monetary costs imposed as a result of the release of pollutants from their operations. Pollutants include any solid, liquid, gaseous or thermal irritant or contaminant, including smoke, vapor, soot, fumes, acids, alkalis, chemicals, and waste. Waste includes materials to be recycled, reconditioned or reclaimed. [SDR] [PLANNING]

GC-7 NO THREAT TO PUBLIC HEALTH:

The facility shall not be sited or operated in such a manner that it poses, either by itself or in combination with other such facilities, a potential threat to public health. To that end, the subject facility and the combination of on-site facilities shall not produce at any time power densities in any inhabited area that exceed the FCC's Maximum Permissible Exposure (MPE) limits for electric and magnetic field strength and power density for transmitters or any more restrictive standard subsequently adopted or promulgated by the federal government. [SDR] [PLANNING]

BP: THE FOLLOWING CONDITIONS SHALL BE ADDRESSED ON THE CONSTRUCTION PLANS SUBMITTED FOR ANY DEMOLITION PERMIT, BUILDING PERMIT, GRADING PERMIT, AND/OR ENCROACHMENT PERMIT AND SHALL BE MET PRIOR TO THE ISSUANCE OF SAID PERMIT(S).

BP-1 PROJECT DESIGN:

The project plans shall demonstrate compliance with the following design elements:

- a. The panel antennas and equipment shall be painted to match the existing tower and antennas;
- b. Antennas shall be located as close to the tower as possible as shown in the approved plans and photosimulations;
- c. All associated ground equipment shall be located within the existing equipment shelter adjacent to the building. [COA] [PLANNING]

BP-2 CONDITIONS OF APPROVAL:

Final plans shall include all Conditions of Approval included as part of the approved application starting on sheet 2 of the plans. [COA] [PLANNING]

BP-3 BLUEPRINT FOR A CLEAN BAY:

The building permit plans shall include a "Blueprint for a Clean Bay" on one full sized sheet of the plans. [SDR] [PLANNING]

PF: THE FOLLOWING CONDITIONS SHALL BE ADDRESSED ON THE CONSTRUCTION PLANS AND/OR SHALL BE MET PRIOR TO RELEASE OF UTILITIES OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

PF-1 RF EMISSIONS STUDIES:

The applicant shall submit to the Director of Community Development at least two reports of field measurements for Radio Frequency Emissions showing: 1.) The ambient level of RF emissions before construction of the facility and 2.) The actual level of emissions after the facility is in place and operating at or near full capacity. [COA] [PLANNING]

AT: THE FOLLOWING CONDITIONS SHALL BE COMPLIED WITH AT ALL TIMES THAT THE USE PERMITTED BY THIS PLANNING APPLICATION OCCUPIES THE PREMISES.

AT-1 CERTIFICATION:

Before January 31 of each even numbered year following the issuance of any authorizing establishment of a wireless telecommunication facility, an authorized representative for each wireless carrier providing service in the City of Sunnyvale shall provide written certification to the City executed under penalty of perjury that (i) each facility is being operated in accordance with the approved local and federal permits and includes test results that confirm the facility meets city noise requirements and federal RF emissions standards; (ii) each facility complies with the then-current general and design standards and is in compliance with the approved plans; (iii) whether the facility is currently being used by the owner or operator; and (iv) the basic contact and site information supplied by the owner or operator is current.. [SDR] [PLANNING]

AT-2 10 YEAR RENEWAL:

Every owner or operator of a wireless telecommunication facility shall renew the facility permit at least every ten (10) years from the date of initial approval. If a permit or other entitlement for use is not renewed, it shall automatically become null and void without notice or hearing ten (10) years after it is issued, or upon cessation of use for more than a year and a day, whichever comes first. Unless a new use permit or entitlement of use is issued, within one hundred twenty (120) days after a permit becomes null and void all improvements,

including foundations and appurtenant ground wires, shall be removed from the property and the site restored to its original pre-installation condition within one hundred eighty (180) days of nonrenewal or abandonment. [SDR] [PLANNING]

AT-3 MINIMIZE NOISE:

The facility shall be operated in such a manner so as to minimize any possible disruption caused by noise. Backup generators shall only be operated during periods of power outages, and shall not be tested on weekends or holidays, or between the hours of 10:00 p.m. and 7:00 a.m. on weekday nights. At no time shall equipment noise from any source exceed an exterior noise level of 60 dB at the property line. [SDR] [PLANNING]

AT-4 RF EMISSIONS:

Certification must be provided that the proposed facility will at all times comply with all applicable health requirements and standards pertaining to RF emissions. [SDR] [PLANNING]

AT-5 MAINTAIN CURRENT INFORMATION:

The owner or operator shall maintain, at all times, a sign mounted on the outside fence showing the operator name, site number and emergency contact telephone number. The owner or operator of the facility shall also submit and maintain current at all times basic contact and site information on a form to be supplied by the city. The applicant shall notify city of any changes to the information submitted within thirty (30) days of any change, including change of the name or legal status of the owner or operator. This information shall include, but is not limited to the following:

- a. Identity, including name, address and telephone number, and legal status of the owner of the facility including official identification numbers and FCC certification, and if different from the owner, the identity and legal status of the person or entity responsible for operating the facility.
- b. Name, address and telephone number of a local contact person for emergencies.
- c. Type of service provided. [SDR] [PLANNING]

AT-6 GOOD REPAIR:

All facilities and related equipment, including lighting, fences and fence slats, shields, cabinets, and poles, shall be maintained in good repair, free from trash, debris, litter and graffiti and other forms of vandalism, and any damage from any cause shall be repaired as soon as reasonably possible so as to minimize occurrences of dangerous

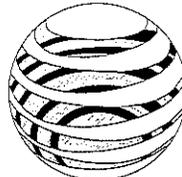
conditions or visual blight. Graffiti shall be removed from any facility or equipment as soon as practicable, and in no instance more than forty-eight (48) hours from the time of notification by the city. [SDR] [PLANNING]

AT-7 RESPONSIBILITY TO MAINTAIN:

The owner or operator of the facility shall routinely and regularly inspect each site to ensure compliance with the standards set forth in the Telecommunications Ordinance. [SDR] [PLANNING]

AT-8 NO INTERFERENCE WITH CITY COMMUNICATION SYSTEMS:

The facility operator shall be strictly liable for interference caused by the facility with city communication systems. The operator shall be responsible for all labor and equipment costs for determining the source of the interference, all costs associated with eliminating the interference, (including but not limited to filtering, installing cavities, installing directional antennas, powering down systems, and engineering analysis), and all costs arising from third party claims against the city attributable to the interference. [SDR] [PLANNING]



at&t
Your world. Delivered.

EL CAMINO AND WOLF

CCL00780/CNU0780/SF0780/CNU3443/FA# 10093969

704 DAFFODIL COURT
SUNNYVALE, CA 94085

PROPRIETARY INFORMATION
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.



PROJECT INFORMATION

PROJECT DESCRIPTION:
AT&T PROPOSES THE ADDITION OF (2) LTE ANTENNAS, (1) PER SECTOR, (2) RRH UNITS PER NEW ANTENNA, (2) RETS PER NEW ANTENNA AND 2 OPS ANTENNA RE-CONFIGURE EXISTING ANTENNAS TO ACCOMMODATE NEW LTE & RELATED EQUIPMENT TO BE LOCATED @ ANTENNA LEVEL, INSTALL (865 (60" MAIN UNIT) LTE EQUIPMENT INSIDE EXISTING SUNSET CABINET INSIDE EXISTING EQUIPMENT AREA @ GROUND LEVEL.

APPLICANT:
AT&T
4330 ROSWOOD DRIVE
8/02 2, FLOOR @
PLEASANTON, CA 94588

PROPERTY OWNER:
CITY OF SUNNYVALE
458 OLIVE AVE
SUNNYVALE, CA 94088

TOWER OWNER:
PC&E
CONTACT: ASH RABSH
PH: (510) 504-6879

CODE INFORMATION:
ZONING CLASSIFICATION: TBO
CONSTRUCTION TYPE: II
OCCUPANCY: S-2
JURISDICTION: CITY OF SUNNY VALE
CURRENT USE: TELECOMMUNICATIONS FACILITY
PROPOSED USE: TELECOMMUNICATIONS FACILITY

SITE LOCATION: (BASED ON NAD 83):
LATITUDE: 37.353442
LONGITUDE: -122.020801
TOP OF STRUCTURE ADL: TBO
BASE OF STRUCTURE ANSL: 60'-0"

PARCEL NUMBER(S):
211-07-001

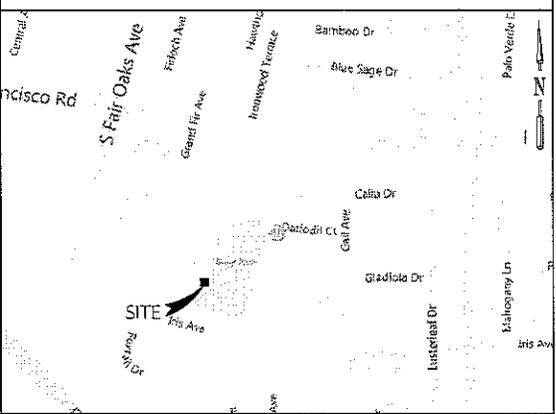
PC&E TOWER INFORMATION:
TOWER S&P #: 4084138
TOWER # 12/78
LINE NAME & VOLTAGE: WESTINGHOUSE TAP, 60KV

PERMITTING:
REALCOM
3525 HOPVARD ROAD, SUITE 182
PLEASANTON, CA 94588
CONTACT: CHRISTIAN HILL
PH: (707) 342-2096

CONSTRUCTION MANAGER:
ERICSSON, INC.
6160 STONEBRIDGE MALL ROAD
SUITE 400
PLEASANTON, CA 94588
CONTACT: BRIAN HUBLEY
PH: (707) 363-3355

GENERAL INFORMATION:
1. PARKING REQUIREMENTS ARE UNCHANGED
2. TRAFFIC IS UNAFFECTED

VICINITY MAP



DRIVING DIRECTIONS

START FROM REGIONAL OFFICE:
DEPART ROSEWOOD DR TOWARD OLD SANTA RITA RD
TURN LEFT ONTO SANTA RITA RD
TAKE RAMP RIGHT FOR I-580 WEST / ARTHUR H BREED Fwy TOWARD OAKLAND
AT EXIT 449, TAKE RAMP RIGHT FOR I-680 SOUTH / SINGULAR Fwy TOWARD SAN JOSE
AT EXIT 12, TAKE RAMP RIGHT FOR SR-262 WEST / MISSION BLVD TOWARD WARM SPRINGS DISTRICT
TAKE RAMP LEFT FOR I-680 SOUTH / HWY12 Fwy TOWARD SAN JOSE
TAKE RAMP RIGHT FOR SR-137 WEST / HOUTMAN VIEW AVENUE RD TOWARD MTN VIEW
TAKE RAMP RIGHT AND FOLLOW SIGNS FOR N LAWRENCE EXPY /
CR-42 SOUTH/13.5 MINNES MCDONALD'S ON THE LEFT IN
TURN RIGHT ONTO REDD AVE
ROAD NAME CHANGES TO OLD SAN FRANCISCO RD
TURN LEFT ONTO GAIL AVE
TURN RIGHT ONTO DAFFODIL CT
ARRIVE AT 704 DAFFODIL CT, SUNNYVALE, CA 94085-8017 ON THE LEFT/RE LAST INTERSECTION IS GAIL AVE

APPROVAL	DATE	SIGNATURE	APPROVAL	DATE	SIGNATURE
RF ENGINEER:			LANDLORD:		
RF MANAGER:			SITE ACQUISITION:		
OPPS MANAGER:			ZONING AGENT:		
CONSTR MANAGER:			PROJECT MANAGER:		
MSB MANAGER:			CONSTR MANAGER:		
TRANSPORT:					
EQUIP ENGINEER:					
COMPLIANCE:					

READERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REQUIRE NOTE AS DRAWINGS ARE BEING REVIEWED

DRAWING INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
G-1	GENERAL NOTES
A-1	SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	EXISTING & PROPOSED ENLARGED EQUIPMENT PLAN
A-4	EXISTING & PROPOSED ENLARGED ANTENNAS PLAN
A-5	EXISTING & PROPOSED SOUTHWEST ELEVATION
RF-1	RF DETAILS
E-1	SCHEMATIC GROUNDING PLAN
E-2	GROUNDING DETAILS

CODE COMPLIANCE

2007 BUILDING STANDARDS ADMINISTRATION CODE
PART 1, TITLE 24, C.C.R.
2007 CALIFORNIA FIRE CODE (CFC)
2006 INTERNATIONAL BUILDING CODE (IBC)
2007 CALIFORNIA ELECTRICAL CODE (CEC)
2005 NATIONAL ELECTRICAL CODE (NEC)
2007 CALIFORNIA MECHANICAL CODE (CMC)
2006 INTERNATIONAL MECHANICAL CODE (IMC)
2007 CALIFORNIA PLUMBING CODE (CPC)
2007 CALIFORNIA ENERGY CODE (CEC)
2004 ASHRAE 90.1 ENERGY CODE
2006 INTERNATIONAL PLUMBING CODE (IPC)
2007 CALIFORNIA MECHANICAL CODE (CMC)
2007 CALIFORNIA FIRE CODE (CFC)
2004 ASHRAE 111.1 SAFETY CODE
2006 INTERNATIONAL FIRE CODE (IFC)
2007 CALIFORNIA REFERENCED STANDARDS
PART 12, TITLE 24, C.C.R.
PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
ANSI/EIA/TIA-222-C STANDARDS FOR BROADCAST STRUCTURES, LOCAL CODES AND ORDINANCES

IN THE EVENT OF A CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

ABBREVIATIONS

A/C	AIR CONDITIONING	HORIZ	HORIZONTAL	PLYWD	PLYWOOD
ACL	ABOUT GROUND LEVEL	HR	HOUR	PROJ	PROJECT
APPROX	APPROXIMATELY	HT	HEIGHT	PROP	PROPERTY
BLDG	BUILDING	HWAC	HEATING	PT	PRESSURE TREATED
BLK	BLOCKING	INT	INTERIOR	REQD	REQUIRED
CLG	CEILING	IR	INSIDE DIAMETER	RM	ROOM
CLR	CLEAR	ID	INSIDE DIAMETER	SHT	SHEET
CONC	CONCRETE	IN	INCH	SM	SIMILAR
CONST	CONSTRUCTION	INFD	INFORMATION	SPCC	SPECIFICATION
CONT	CONTINUOUS	INSUL	INSULATION	ST	SQUARE FOOT
DBL	DOUBLE	INTFR	INTERIOR	SS	STAINLESS STEEL
DA	DAMPER	INTL	INTERNATIONAL	STL	STEEL
DIA	DIAGONAL	IBC	INTERNATIONAL BUILDING CODE	STRUCT	STRUCTURAL
DW	DRAIN	IBD	INSIDE DIAMETER	STD	STUD
DEF	DEFLECT	LBS	POUNDS	SUSP	SUSPENDED
DWG	DRAWING	LBS	POUNDS	THRU	THROUGH
EA	EACH	MAN	MANHOLE	TINN	TINNED
ELEV	ELEVATION	MECH	MECHANICAL	TYP	TYPICAL
ELEC	ELECTRICAL	MFG	MANUFACTURE	UNO	UNLESS NOTED OTHERWISE
EQUIP	EQUIPMENT	MGR	MANAGER	VER	VERTICAL
EXT	EXTERIOR	MISC	MISCELLANEOUS	VF	VERIFY IN FIELD
FIN	FINISH	MTL	METAL	W/	WITH
FLOOR	FLOOR	NIC	NOT IN CONTRACT	W/O	WITHOUT
FLR	FLOOR	NTS	NOT TO SCALE	WP	WATER PROOF
FT	FOOT	OC	ON CENTER		
GA	GAUGE	OD	OUTSIDE DIAMETER		
GEN	GENERALIZED				
OC	ON CENTER				
GENL	GENERAL CONTRACTOR				
GRND	GROUND				
OP	OPERATION WALL BOARD				

PROJECT TEAM

PROJECT ARCHITECT	PROJECT CONSULTANT	PROJECT CONSULTANT
THOMAS HOLLAND, AIA PACIFIC TELECOM SERVICES, LLC 3825 HOPVARD ROAD, SUITE 182 PLEASANTON, CA 94588 CONTACT: NINA FORD PH: (510) 778-2864 EMAIL: MIFORD@PTSSA.COM	ERICSSON, INC. 6160 STONEBRIDGE MALL ROAD SUITE 400 PLEASANTON, CA 94588	REALCOM ASSOCIATES LLC 3525 HOPVARD ROAD, SUITE 182 PLEASANTON, CA 94588 CONTACT: PAVENA YANAKIEVA PHONE: (510) 378-3951 EMAIL: PAVENAK@REALCOM4550C.COM

EL CAMINO AND WOLF
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704 DAFFODIL COURT
SUNNYVALE, CA 94085

ATTACHMENT
Page 1 of 10

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY TOWER NETWORK CARRIER OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES AS THEY MAY BE DISCOVERED IN PLANS, DOCUMENTS, NOTES, OR SPECIFICATIONS PRIOR TO STARTING CONSTRUCTION INCLUDING, BUT NOT LIMITED BY, DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF TOWER NETWORK CARRIER CONSTRUCTION PROJECT MANAGER AND SHALL INCUR ALL EXPENSES TO RECTIFY THE SITUATION. THE MAJOR CORRECTIVE ANY ERRORS SHALL FIRST BE APPROVED BY TOWER NETWORK CARRIER CONSTRUCTION PROJECT MANAGER.
2. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR HAVING BEEN AWARED THIS PROJECT SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.
3. FOR COLLOCATION SITES CONTACT TOWER OWNER REPRESENTATIVE FOR PARTICIPATION IN BO WALK.
4. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT AND/OR REQUIREMENTS DEEMED NECESSARY TO COMPLETE PROJECT AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.
5. THE ARCHITECT/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT ANY DIMENSIONS SHOWN IN THE DRAWINGS AND/OR CONTRACT DOCUMENTS SHALL NOT EXCEED SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PROTECT THE MOST COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.
6. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCE. TOWER NETWORK CARRIER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS FROM THIS PRACTICE. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS.
7. OWNER, CONTRACTOR, AND TOWER NETWORK CARRIER CONSTRUCTION PROJECT MANAGER SHALL MEET JOINTLY TO VERIFY ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.
8. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
9. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
10. THE CONTRACTOR SHALL PROVIDE TOWER NETWORK CARRIER PROPER INSURANCE CERTIFICATES NAMED TOWER NETWORK CARRIER, TOWER NETWORK CARRIER AND TOWER NETWORK CARRIER PROOF OF LICENSE(S) AND PE & FO INSURANCE.
11. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION WORK, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
12. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
13. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
14. GENERAL CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT BEAR THE TITLE SHEET IS STAMPED "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S SIGNED WET STAMP.
15. A COPY OF COVERING AGENCY APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE COVERING AGENCY. THIS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. THE PLANS ARE NOT TO BE USED BY THE WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION AS COVERING AGENCY APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS IN GOOD CONDITION, COMPLETE WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES UNDER THE DIRECT CARE OF THE SUPERINTENDENT. THE CONTRACTOR SHALL SUPPLY TOWER NETWORK CARRIER CONSTRUCTION PROJECT MANAGER WITH A COPY OF ALL REVISIONS, ADDENDA, AND/OR CHANGE ORDERS AT THE CONCLUSION OF THE WORK AS A PART OF THE AS-BUILT DRAWING PACKAGE.
16. THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.
17. THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING PLANS AND CROSS CHECK THEIR DETAILS, NOTING ANY DISCREPANCIES AND ALL REQUIREMENTS PRIOR TO THE START OF ANY WORK.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT AND SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
19. THE CONTRACTOR HAS THE RESPONSIBILITY OF LOCATING ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR AS SPECIFIED IN THE AGREEMENT BETWEEN SUBCONTRACTOR AND CONTRACTOR, SHALL BEAR THE EXPENSES OF REPAIR AND/OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
20. THE REFERENCES ON THE DRAWINGS ARE FOR CONVENIENCE ONLY AND SHALL NOT LIMIT THE APPLICATION OF ANY DRAWING OR DETAIL.
21. ALL DIMENSIONS ON THE PLANS ARE TO FACE OF STUD (F.O.S.) UNLESS NOTED OTHERWISE (N.O.).
22. ALL EXISTING CONSTRUCTION, EQUIPMENT, AND FINISHES NOTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE WITH THE FOLLOWING EXCEPTIONS:
 - A. PROPERTY NOTED TO BE RETURNED TO THE OWNER.
 - B. PROPERTY NOTED TO BE REMOVED BY THE OWNER.
23. THE GOVERNING AGENCIES, CODE AUTHORITIES, AND BUILDING INSPECTORS SHALL PROVIDE THE MINIMUM STANDARDS FOR CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES USED THROUGHOUT THIS PROJECT. TRADE STANDARDS AND/OR PUBLISHED MANUFACTURERS SPECIFICATIONS MEETING OR EXCEEDING DESIGN REQUIREMENTS SHALL BE USED FOR INSTALLATION.
24. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER ROUGH FRAMED FLOORS OR ROOFS SO AS NOT TO EXCEED THE DESIGNED LOAD FOR THE STRUCTURE. TEMPORARY SHORING AND/OR BRACING IS TO BE PROVIDED WHERE THE STRUCTURE HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
25. PRIOR TO THE POURING OF ANY NEW SLAB OVER AN EXISTING SLAB THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, CHASES, AND EQUIPMENT WHICH ARE TO BE IMPLEMENTED INTO THE NEW WORK. ALL ITEMS DESIGNATED TO BE ABANDONED SHALL BE NOTED AND DISCUSSED WITH THE OWNER AND TOWER NETWORK CARRIER CONSTRUCTION PROJECT MANAGER AS PART OF THE AS-BUILT DRAWING PACKAGE.
26. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.
27. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING, CONSTRUCTION, AND ANY OTHER PROJECT EFFORT AS MANDATED BY THE GOVERNING AGENCY.
28. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
29. THE PROJECT, WHEN COMPLETED, SHALL COMPLY WITH LOCAL SECURITY CODES AND TITLE-24 ENERGY CONSERVATION REQUIREMENTS (TITLE-24 WHEN APPLICABLE).
30. ALL GLASS AND GLAZING IS TO COMPLY WITH CHAPTER 94 OF THE U.S. CONSUMER SAFETY EQUIPMENT - SAFETY STANDARDS AND FEDERAL INTERSECTIONAL GLAZING MATERIALS (42 CFR 1428, CFR PART 1201) AND LOCAL SECURITY REQUIREMENTS.
31. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING AND/OR ADJACENT STRUCTURES, FINISHES, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
32. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARDOUS FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. CONTRACTOR SHALL REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION, AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
33. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL MATCH IN FORM, TEXTURE, FINISH, AND IN MATERIALS EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.
34. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING, BLOCKING, AND/OR SLEEVES REQUIRED FOR THE INSTALLATION OF FIXTURES, MECHANICAL EQUIPMENT, PLUMBING, HARDWARE, AND FINISH ITEMS TO INSURE A PROPER AND COMPLETE JOB.
35. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A PROJECT LEVEL, STRAIGHT, AND TRUE ACCORDING TO THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE LEVEL AND LEVELS OF THE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. TOWER NETWORK CARRIER SHALL BE NOTIFIED OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES PRIOR TO ANY CONSTRUCTION.
36. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJACENT PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, DIRT, AND PILE AS REQUIRED BY THE GOVERNING AGENCIES.
37. WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AND/OR REVISIONS AVAILABLE AS REQUIRED BY THE GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.
38. THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF ALL MATERIALS AND SHALL NOT DO SO ON PUBLIC PROPERTY WITHOUT A PERMIT TO DO SO FROM THE GOVERNING AGENCIES FOR THIS PURPOSE.
39. GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
40. TRADES INVOLVED IN THE PROJECT SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, FITTING, PATCHING, ETC. SO AS TO BE RECOVERED PROPERLY BY THE WORK OF OTHER TRADES.
41. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT PREMISES AND SHALL BE LEFT IN A CLEAN (BROOM FINISH) CONDITION AT ALL TIMES BY EACH TRADE AS THEY PERFORM THEIR OWN PORTION OF THE WORK.
42. TOWER NETWORK CARRIER DOES NOT GUARANTEE ANY PRODUCTS, FIXTURES, AND/OR ANY EQUIPMENT NAMED BY A TRADE OR MANUFACTURER. GUARANTEE OR WARRANTY THAT MAY BE IN EFFECT IS DONE SO THROUGH THE COMPANY OR MANUFACTURER PROVIDING THE PRODUCT, FIXTURE, AND/OR EQUIPMENT ONLY. UNLESS SPECIFIC RESPONSIBILITY IS ALSO PROVIDED BY THE CONTRACTOR/SUBCONTRACTOR IN WRITTEN FORM.
43. CAUTION! CALL BEFORE YOU DIG! BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION IS NOT TO BE COMPLETELY CONTACT THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. (1-800-922-8859).
44. CONTRACTOR TO REPLACE AND/OR REPAIR ANY EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING TRENCHING AND GENERAL CONSTRUCTION.
45. CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO PLACEMENT OF MONOPOLE FOOTING AND OTHER STRUCTURES TO BE PLACED IN GROUND. SEE GENERAL NOTE #6 ON THIS SHEET.
46. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION.
47. CONTRACTOR TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO TOWER NETWORK CARRIER ALONG WITH REDLINED CONSTRUCTION SET.
48. CONTRACTOR TO DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDLINED) THE APPROVED CONSTRUCTION SET AND SUBMITTING THE REDLINED SET TO TOWER NETWORK CARRIER UPON COMPLETION.

49. GENERAL CONTRACTOR IS TO COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. CONTRACTOR TO REPORT POWER INSTALLATION COORDINATION SOLUTION(S) TO NETWORK CARRIER PRIOR TO START OF CONSTRUCTION. PROJECT CONSTRUCTION MANAGER AND ARCHITECT.
50. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY TOWER NETWORK CARRIER CONSTRUCTION MANAGER.
51. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPAIR ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THIS PROJECT IS COMPLETE AND ACCEPTED UNDER THIS CONTRACT, UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR. (EXCEPTION: THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COORDINED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN SUBSTANTIAL CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.
52. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES, WORKMEN, AND ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
53. THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL NECESSARY PERMITS AND/OR FEES WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN PERMIT AND MAKE FINAL PAYMENT FOR SAID DOCUMENT.
54. THE ARCHITECT/ENGINEER IN CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND/OR SPECIFICATIONS.
55. TOWER NETWORK CARRIER WILL REVIEW AND APPROVE SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT. TOWER NETWORK CARRIER PROJECT APPROVAL OF A SEPARATE ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
56. ALL ANTENNAS MOUNTED ON ROOF SUPPORT FRAMES TO BE PROVIDED BY TOWER NETWORK CARRIER COMMUNICATIONS.
57. CONTRACTOR TO PROVIDE TRENCH AS REQUIRED TO INSTALL BOTH ELECTRICAL AND TELEPHONE UNDERGROUND CONDUITS (4" ID PVC) PER S.C.E. BACKFILL WITH CLEAN SAND AND PROTECT TO MEET ALL LOCAL AND STATE SATISFACTION OF THE DISTRICT'S INSPECTOR. REPLACE FINISH GRADE WITH ORIGINAL MATERIALS (GRASS, ASPHALT, CONCRETE, ETC.).
58. CONTRACTOR TO PROTECT HEAVY STEEL PLATES AT OPEN TRENCHES FOR SAFETY AND TO PROTECT EXISTING GROUND SURFACES FROM HEAVY EQUIPMENT UTILIZED DURING CONSTRUCTION.
59. CONTRACTOR TO PATCH AND REPAIR ALL GROUND SURFACES WITHIN THE CONSTRUCTION AREA AS NECESSARY TO PROVIDE A UNIFORM SURFACE AND MAINTAIN EXISTING SURFACE DRAINAGE SLOPES.
60. CONTRACTOR TO REPLACE LANDSCAPE VEGETATION THAT WAS DAMAGED DUE TO CONSTRUCTION, AND TO MODIFY REMAINING IRRIGATION LINES TO PROTECT EXISTING VEGETATION.
61. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE PENETRATION OF EXISTING ROOFING MATERIALS OCCUR, THE GENERAL CONTRACTOR SHALL COORDINATE WITH BUILDING OWNER AND BUILDING ROOFING CONTRACTOR OF RECORD FOR INSTALLATION, PATCH, REPAIR OR ANY ALTERNATION TO THE ROOF, AND HAVE THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S WARRANTY FOR MOISTURE PENETRATION OR OTHER FUTURE BREACH OF ROOFING INTEGRITY.
62. IN THE CASE OF ROOFTOP SOLUTIONS WITH THE INSTALLATION OF ANTENNAS WITHIN CONCEALED (SHROUDED) SUPPORT FRAMES OR TRIPODS, THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE FRP DESIGNER/FABRICATOR TO ENSURE THAT THE FINAL FRP SHOULD BE SIMULATING (IN APPEARANCE) EXISTING EXTERIOR BUILDING FACADE MATERIALS, TEXTURES, AND COLORS. THE CONTRACTOR SHALL FURTHERMORE ENSURE THE USE OF COUNTERSUNK FASTENERS IN ALL FRP CONSTRUCTION, WHEN PHOTO-SIMULATIONS ARE PROVIDED. THE CONTRACTOR SHALL ENSURE THAT FINAL CONSTRUCTION REPRESENTS WHAT IS INDICATED IN PHOTO-SIMULATIONS. SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR, CONSTRUCTION COORDINATOR, AND ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
63. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE ANCHORING TO A CONCRETE ROOF SLAB IS REQUIRED, CONTRACTORS SHALL CONFIRM (PRIOR TO SUBMITTING BID) WITH CONSULTING CONSTRUCTION COORDINATOR AND ARCHITECT THE PRESENCE OF REINFORCING TENDONS WITHIN THE ROOF SLAB - RESULTING FROM AN UNDOCUMENTED DESIGN CHANGE IN THE EXISTING BUILDING AS-BUILT DRAWING SET - HAVING INDICATED AN ORIGINAL DESIGN SOLUTION OF REINFORCED CONCRETE W/ EMBEDDED STEEL REBAR. IN THE EVENT POST TENSION SLAB SOLUTION IS PRESENT, CONTRACTOR SHALL INCLUDE PROVISIONS FOR X-RAY PROCEDURES (INCLUDED IN BID) FOR ALL PENETRATIONS AREAS WHERE ANCHORING OCCURS.
64. GENERAL & SUB CONTRACTORS SHALL USE STAINLESS STEEL METAL LOCKING TIES FOR ALL CABLE TRAY TIE DOWNS AND ALL OTHER GENERAL TIE DOWNS (WHERE APPLICABLE). PLASTIC ZIP TIES SHALL NOT BE PERMITTED FOR USE ON TOWER NETWORK CARRIER PROJECTS. RECOMMENDED MANUFACTURE SHALL BE: PANDUIT CORP. METAL LOCKING TIES MODEL NO. M-LT45-CP UNDER SERIES-304 (OR EQUAL). PANDUIT PRODUCT DISTRIBUTED BY: THAK.
65. ALL WORK TO BE DONE BETWEEN HOURS OF 8:00 AM AND 5:00 PM, EXCLUDING HOLIDAYS.

TOWER/POLE NOTES:

1. VERIFY/CONFIRM THAT THE EXISTING TOWER/POLE CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS.
2. PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.

SYMBOLS:

- GRID REFERENCE
- DETAIL REFERENCE
- ELEVATION REFERENCE
- SECTION REFERENCE
- CENTERLINE
- PROPERTY/LEASE LINE
- WATCH LINE
- WORK POINT
- GROUND CONDUCTOR
- ELECTRICAL CONDUIT
- ELECTRICAL CONDUIT
- COAXIAL CABLE
- OVERHEAD SERVICE CONDUCTORS
- CROUOT OR PLASTER
- (E) BRICK
- (E) MASONRY
- CONCRETE
- EARTH
- GRAVEL
- PLYWOOD
- SAND
- WOOD CONTINUOUS
- WOOD BLOCKING
- STEEL
- NEW
- EXISTING
- NEW ANTENNA
- EXISTING ANTENNA
- GROUND ROD
- GROUND BUS BAR
- MECHANICAL GRID CONN.
- CADWELD
- GROUND ACCESS WELL
- ELECTRIC BOX
- TELEPHONE BOX
- LIGHT POLE
- FINO. MOUNTMENT
- SPDT ELEVATION
- SET POINT
- REVISION



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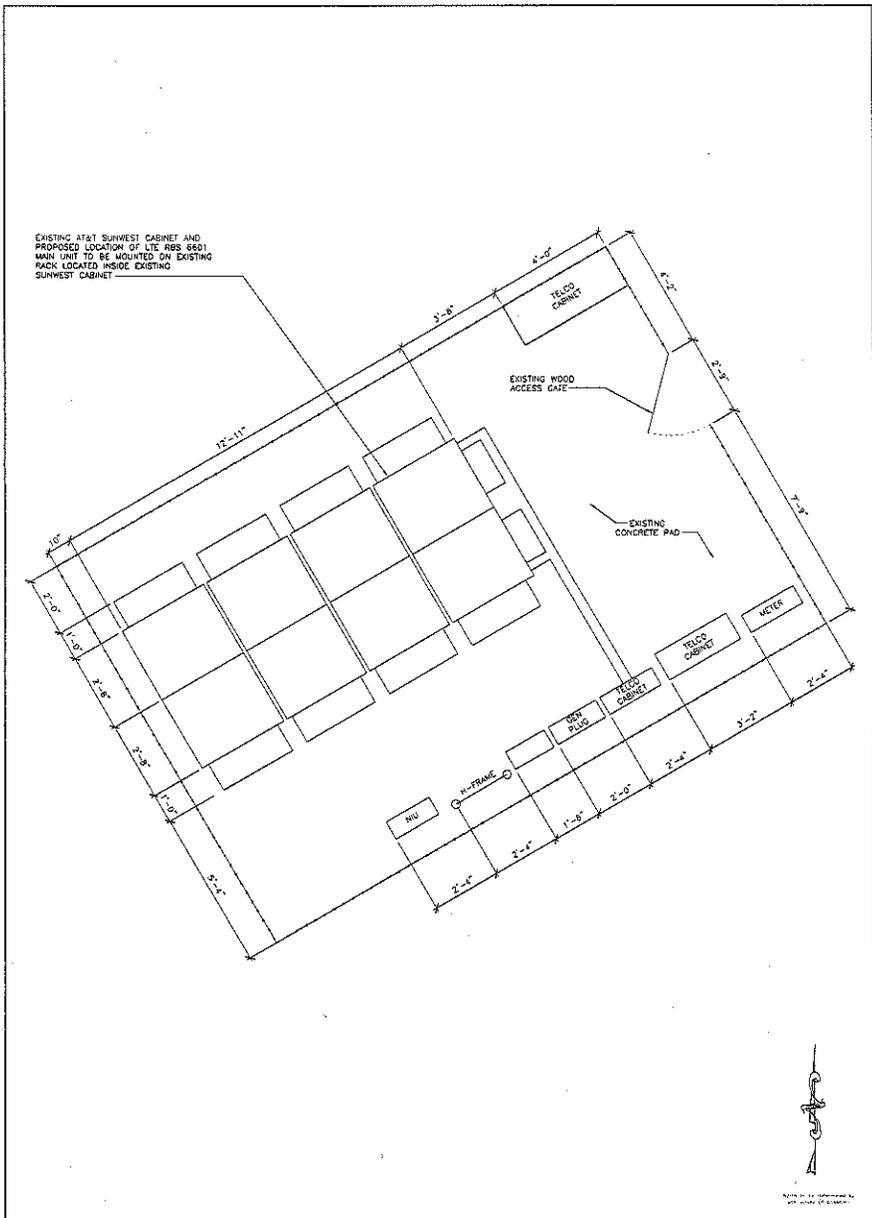
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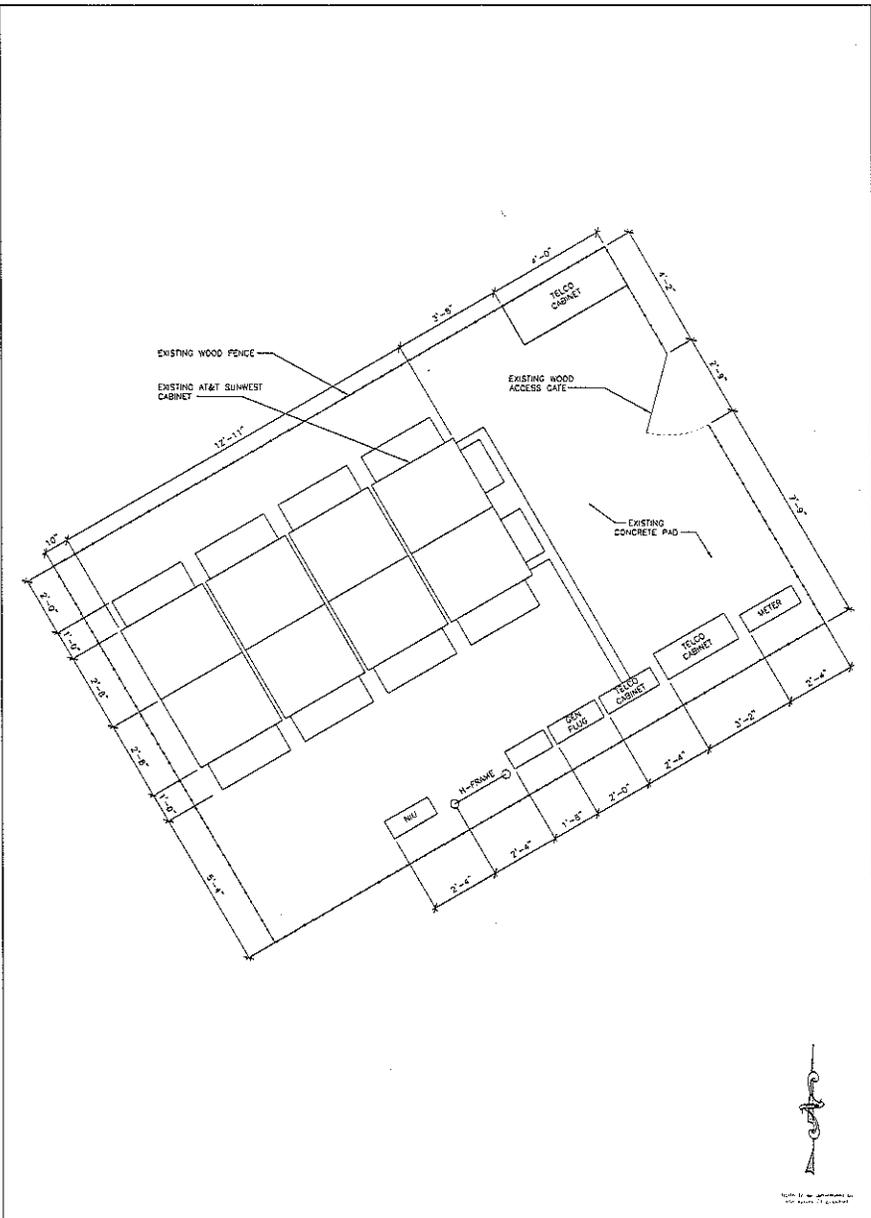


ATTACHMENT **B**
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24"x36" SCALE: 1/2" = 1'-0"
 11"x17" SCALE: 1/4" = 1'-0"
 PROPOSED ENLARGED EQUIPMENT PLAN 2

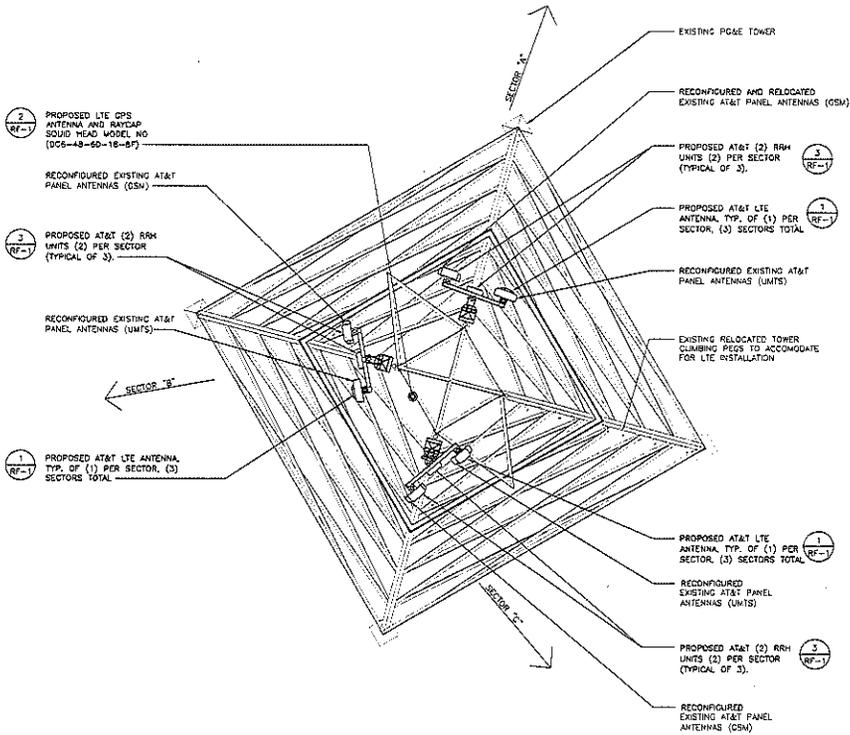
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 11"x17" SCALE: 1/4" = 1'-0"
 EXISTING ENLARGED EQUIPMENT PLAN 1

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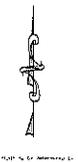
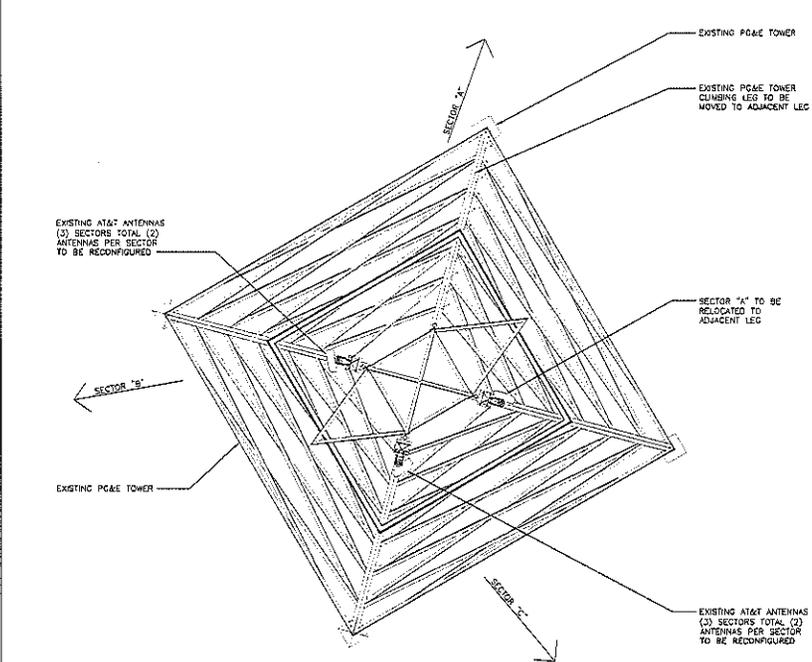
NOTE:
ALL NEW LTE ANTENNAS,
EQUIPMENT CABINETS, AND
MOUNTING HARDWARE TO BE
PAINTED TO MATCH EXISTING



NOTE: ALL DIMENSIONS TO FACE UNLESS NOTED OTHERWISE

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"

PROPOSED ANTENNA PLAN | 2



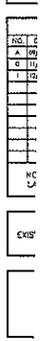
NOTE: ALL DIMENSIONS TO FACE UNLESS NOTED OTHERWISE

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"

EXISTING ANTENNA PLAN | 1



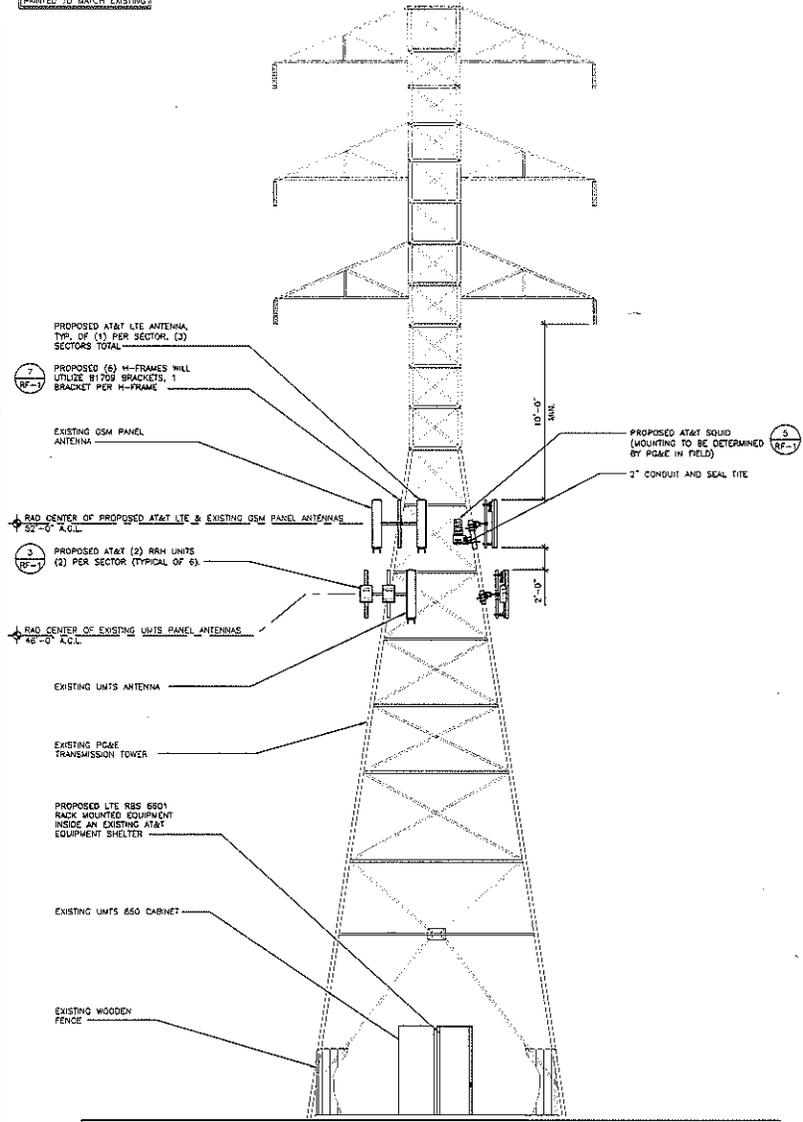
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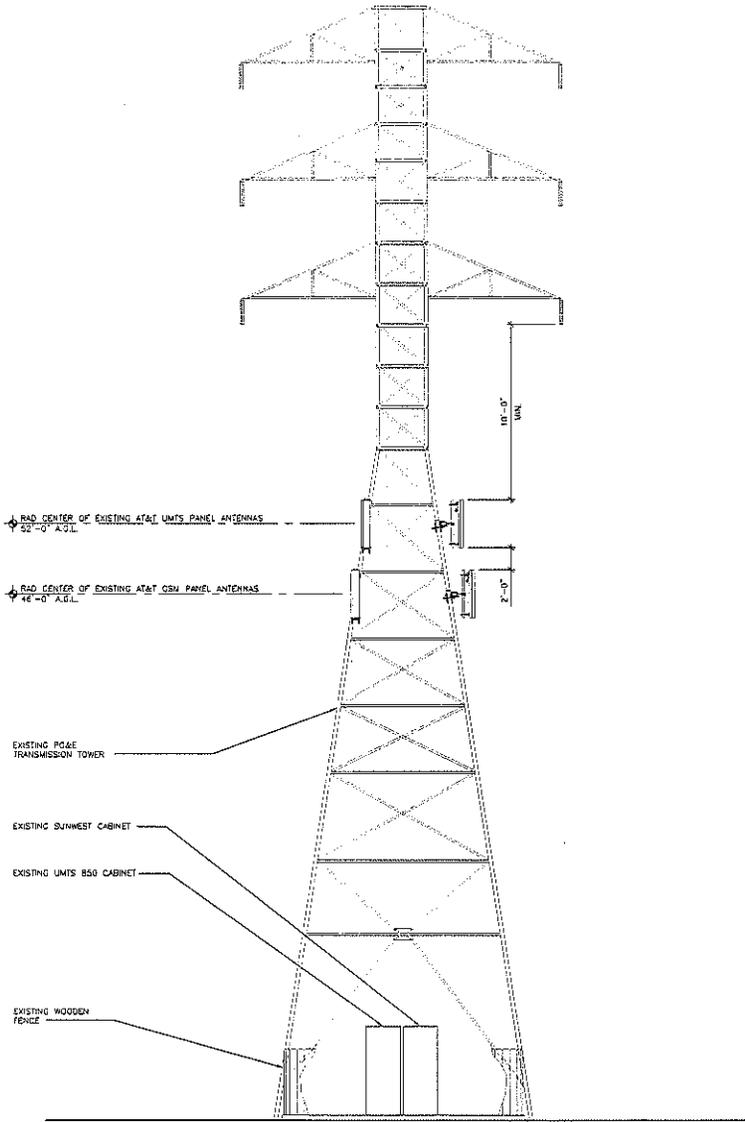
NOTE:
ALL NEW LTE ANTENNAS,
EQUIPMENT CABINETS, AND
MOUNTING HARDWARE TO BE
PAINTED TO MATCH EXISTING



24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

PROPOSED SOUTHWEST ELEVATION 2

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



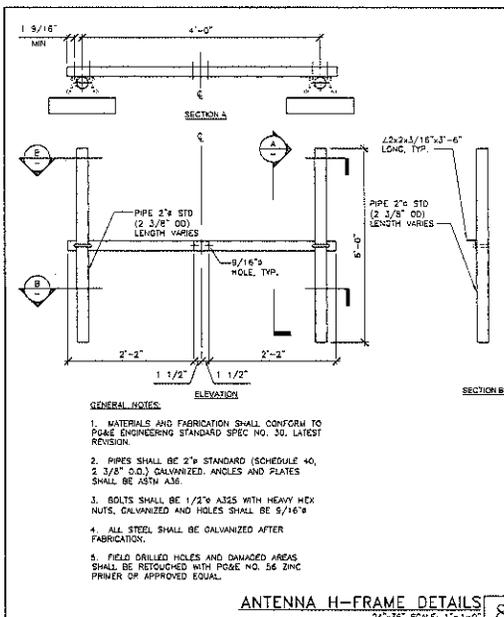
EXISTING SOUTHWEST ELEVATION 1



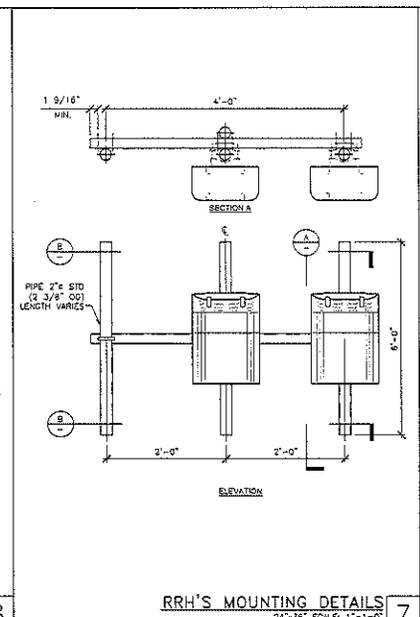
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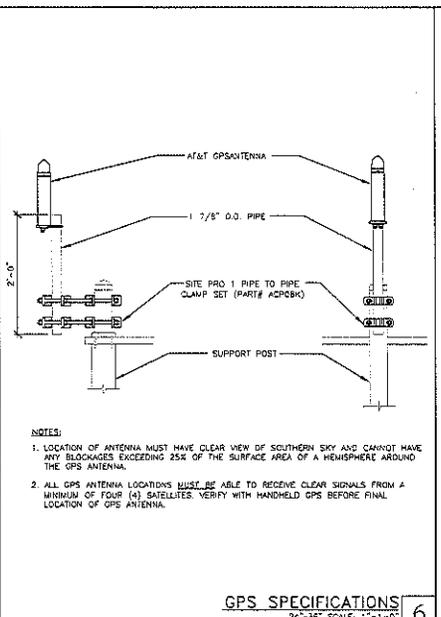
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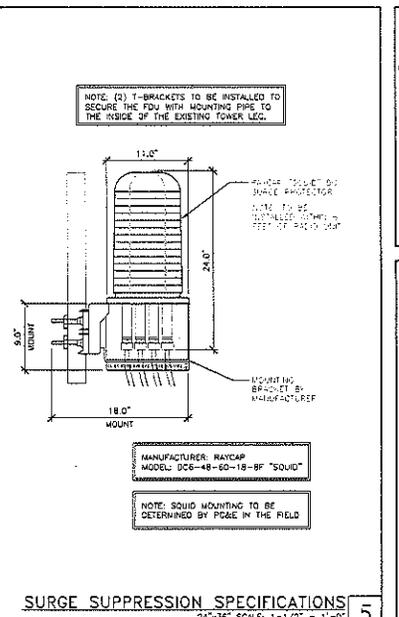
ANTENNA H-FRAME DETAILS
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11"x17" SCALE: 1/2"=1'-0"



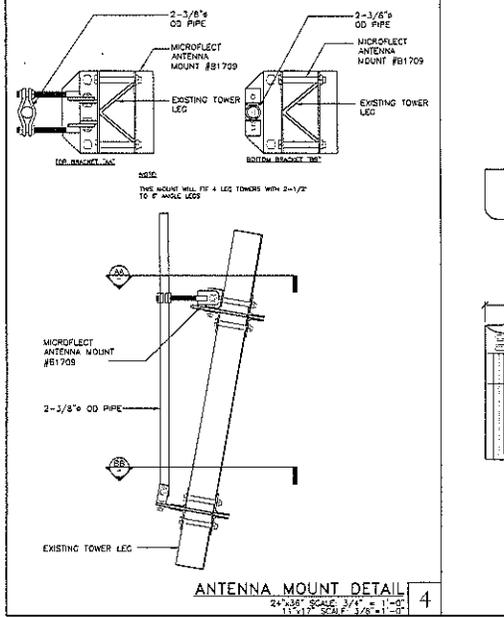
RRH'S MOUNTING DETAILS
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11"x17" SCALE: 1/2"=1'-0"



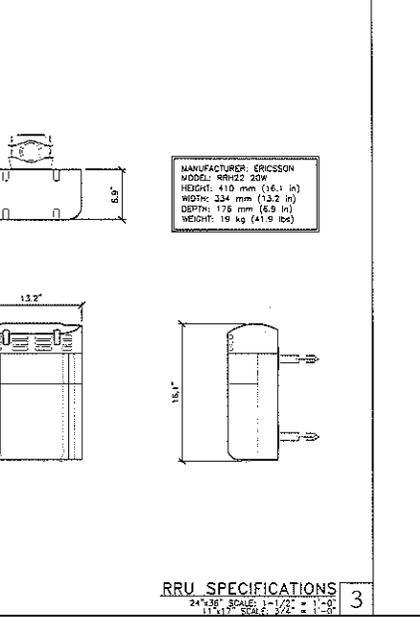
GPS SPECIFICATIONS
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11"x17" SCALE: 1/2"=1'-0"



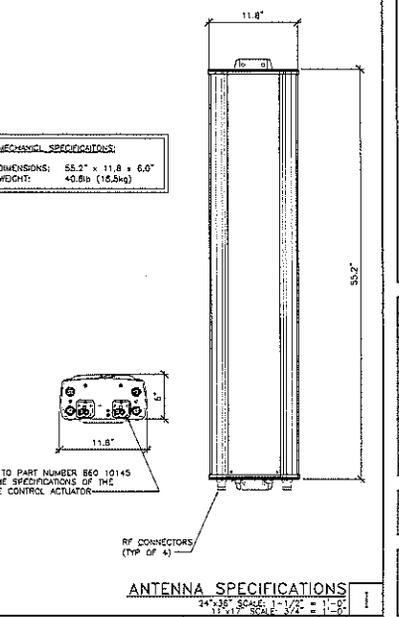
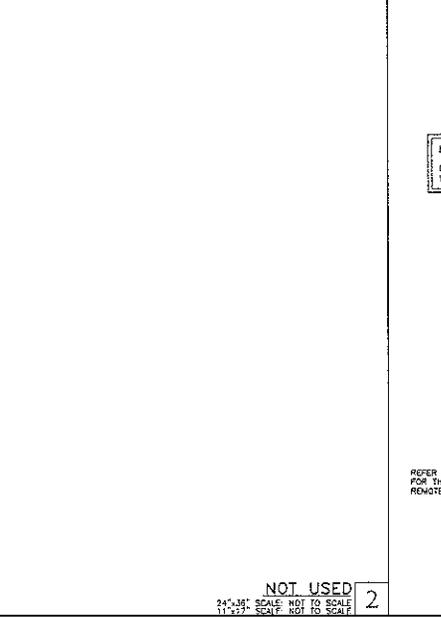
SURGE SUPPRESSION SPECIFICATIONS
24"x36" SCALE: 1"=1'-0"
11"x17" SCALE: 1/2"=1'-0"



ANTENNA MOUNT DETAIL
24"x36" SCALE: 3/4"=1'-0"
11"x17" SCALE: 3/8"=1'-0"



RRU SPECIFICATIONS
24"x36" SCALE: 1"=1'-0"
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ANTENNA SPECIFICATIONS
24"x36" SCALE: 1"=1'-0"
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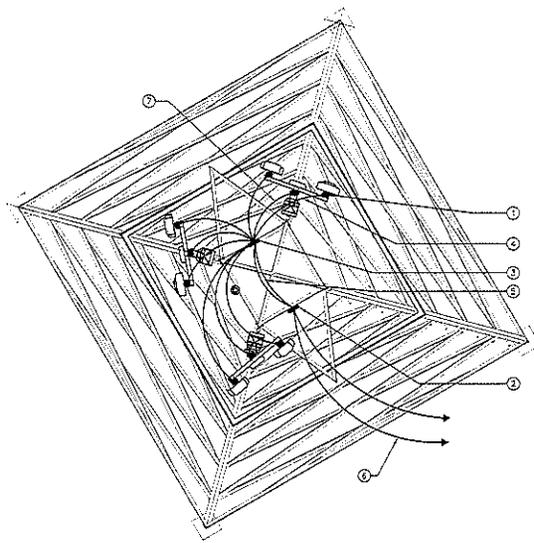
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NO.	DATE
1	11/20/17
2	11/20/17
3	11/20/17
4	11/20/17
5	11/20/17
6	11/20/17
7	11/20/17

NOT A LABEL

ATTACHMENT B

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- GROUNDING KEYED NOTES**
- ① CAD WELD (TYP). SEE DETAIL 2/E-2.
 - ② EXISTING ANTENNA GROUND BUS BAR NEAR ANTENNA MOUNT WITH COAX GROUND KIT. SEE DETAIL 6/E-2 FOR GROUND BAR CONSTRUCTION. SEE DETAIL 7/E-2 FOR GROUND WIRE CONNECTIONS, AND SEE DETAIL 5/E-2 FOR COAX GROUNDING.
 - ③ EXISTING TOWER GROUND BUS BAR AT BASE OF TOWER. SEE DETAIL 6/E-2 FOR GROUND BAR CONSTRUCTION. SEE DETAIL 7/E-2 FOR GROUND WIRE CONNECTIONS, AND SEE DETAIL 5/E-2 FOR COAX GROUNDING.
 - ④ #2 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BUS BAR (TYP OF 3) SEE DETAIL 4/E-2.
 - ⑤ #2 AWG EXISTING GROUND FROM ANTENNA GROUND BUS BAR TO TOWER GROUND BUS BAR (TYP OF (2) PLACES). SEE DETAIL 7/E-2.
 - ⑥ #2 AWG GROUNDING LEADS TO BE TIED INTO EXISTING PGE TOWER MAIN GROUND BAR OR GROUND GRID.
 - ⑦ #2 AWG EXISTING GROUND FROM RRN'S GROUND BUS BAR TO TOWER GROUND BUS BAR (TYP OF (2) PLACES). SEE DETAIL 7/E-2.

GROUNDING NOTES & LEGEND

- GENERAL GROUNDING NOTES**
1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
 2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BIT MANUFACTURERS PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING NFR'S PRACTICES.
 3. ALL GROUND CONNECTIONS SHALL BE CADWELD. ALL WIRES SHALL BE COPPER THIN/THIN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
 4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY AT&T WIRELESS, LLC, REPRESENTATIVE.
 5. REFER TO DIVISION 16 GENERAL ELECTRIC, GENERAL ELECTRICAL, PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
 6. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED AT&T MOBILITY REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RING.
 7. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.



GROUNDING ROD NOTES (WHERE APPLICABLE)

ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED. A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.

2 POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊗	COPPER GROUND ROD	⊗	TEST WELL
●	CADWELD CONNECTION	— —	GROUND BAR
■	SIDE SPUCE CADWELD	— —	GROUND BAR
— —	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM		

24"X36" SCALE: 3/8" = 1'-0"
 11"X17" SCALE: 3/16" = 1'-0"

SCHEMATIC GROUNDING PLAN

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.



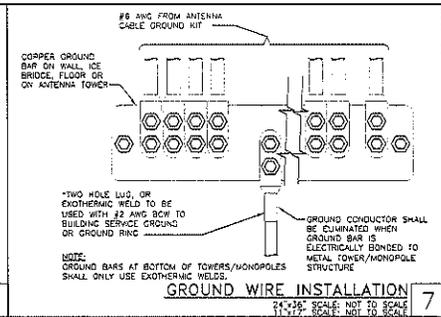
EL CAMINO AND WOLF
 CCL00780/CNLI0780/5T0780/CNLI3443
 704 DAFFODIL COURT
 SUNNYVALE, CA 94085

ATTACHMENT
 Page 9 of 70
 B

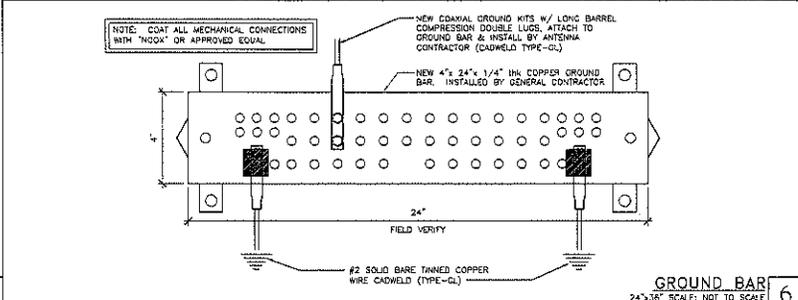


EL CAMINO AND WOLF
CCL00780/CNU0780/5F0780/CNUB3443
704 DAFFODIL COURT
SUNNYVALE, CA 94085

ATTACHMENT B
Page 10 of 10

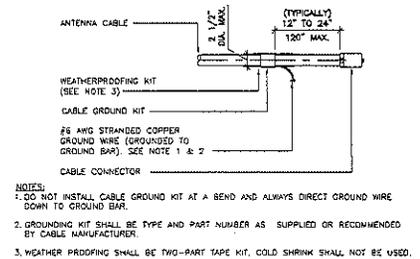


NOT USED
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE 8

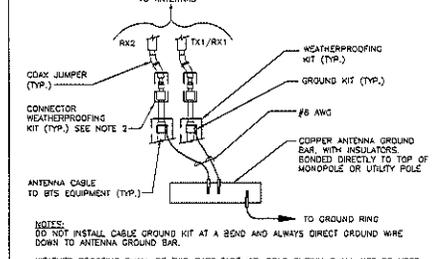


NOT USED
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11"x17" SCALE: NOT TO SCALE 9

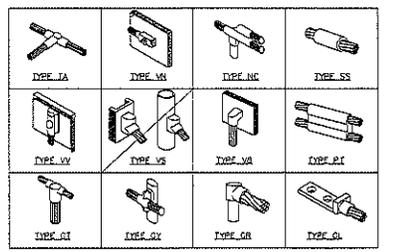
GROUND BAR
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE 6



CABLE GROUND KIT CONNECTION
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE 5

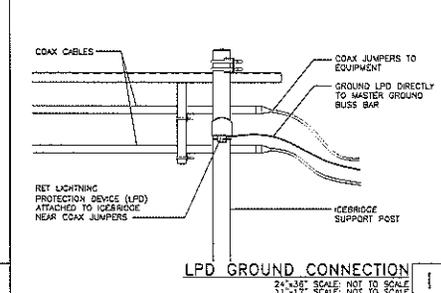


GROUND CABLE CONNECTION
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE 4



NOT USED
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE 3

CADWELDED GROUNDING CONNECTIONS
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE 2



LPD GROUND CONNECTION
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE 1

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

Project Name

El Camino and Wolf (CNU0780)

Project Description

AT&T proposes the addition of (3) LTE antennas, (1) per sector, (2) RRH units per new antenna, (2) RETs per new antenna and a GPS antenna. Re-configure existing antennas to accommodate new LTE and related equipment to be located at antenna level. Install (RBS 6601 main unit) LTE equipment inside Sunwest cabinet inside existing equipment area at ground level.

Contact Person

On behalf of the Applicant please contact:

Christian Hill
RealCom Associates
3825 Hopyard Road, Suite 182
Pleasanton, CA 94588

Phone: 707-342-2096
Email: chillrealcom@gmail.com

* Technology Description provided on page 2

Description of Technology

The AT&T system wide LTE modification is being implemented due to the increased demands that wireless service end users and consumers have placed on existing networks. Because the increased usage of Smart Phones and increasing amount of data that wireless service end users and consumers are pulling from the network, this additional technology will help augment the existing system and provide sufficient infrastructure for future growth.

LTE is a set of enhancements to the Universal Mobile Telecommunications System (UMTS), an existing technology currently being used. LTE enhancements will provide increased data coverage to meet current and future demand as end users increase the amount of information they receive on their mobile devices. In the United States, Metro PCS, Verizon and AT&T are leading the way on this next generation of wireless consumer enhancements.

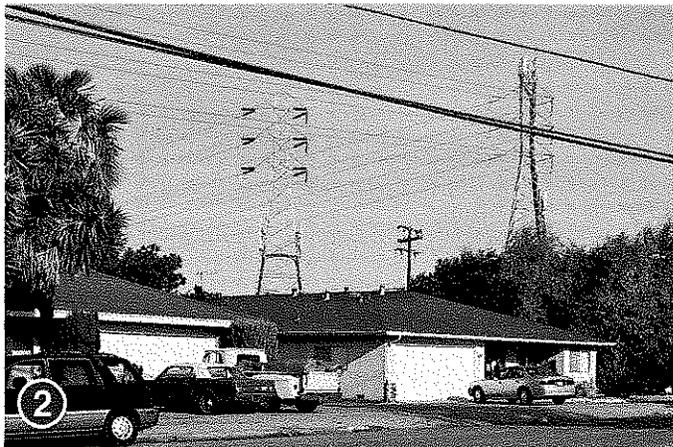
While it is commonly seen as a mobile telephone or common carrier development, LTE is also endorsed by public safety agencies in the US (as per National Public Safety Telecommunications Council, attached document) as the preferred technology for the new 700 MHz public-safety radio band.

Christian Hill

Cell 707 342-2096

Fax 925 588-7665

chillrealcom@gmail.com



El Camino and Wolfe Site # CNU0780

Aerial Map

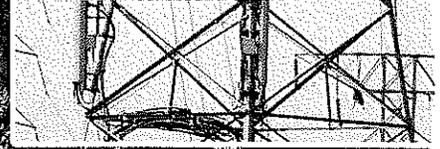
12/16/10

704 Dafodil Court
Sunnyvale, CA 94085

Applied Imagination 510 914-0500



Existing



proposed antennas

Proposed



El Camino and Wolf

Site # CNU0780

Looking West from Gall Avenue

12/16/10

704 Dafodil Court
Sunnyvale, CA 94085

View #1

Applied Imagination 510 914-0500



Existing



Proposed



El Camino and Wolf

Site # CNU0780

Looking Northeast from Iris Avenue

12/16/10

704 Dafodil Court
Sunnyvale, CA 94085

View #2

Applied Imagination 510 914-0500

RF EMISSIONS COMPLIANCE REPORT

Geist Engineering and Environmental Group
on behalf of AT&T

Site: CNU0780 El Camino and Wolf
704 Daffodil Street
Sunnyvale, CA 94085

December 22, 2010

Report Status:

**Geist Engineering and Environmental Group
on behalf of AT&T Is under 5% Threshold**

Prepared By:

Waterford Consultants, LLC

Engineering Statement
Electromagnetic Energy Analysis
Geist Engineering and Environmental Group on behalf of AT&T

Upon penalty of perjury, I, Richard P. Biby, state:

That I am registered as a Professional Engineer in the Commonwealth of Virginia; and

That I have extensive professional experience in the wireless communications engineering industry; and

That I am a principal of Waterford Consultants, LLC located in Round Hill, Virginia; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission ("the FCC" and "the FCC Rules") both in general and specifically as they apply to the FCC's Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields and that I have been engaged in the analysis of Human Exposure to Radiofrequency Electromagnetic Fields for over 10 years; and

That I have examined the technical information supplied by Geist Engineering and Environmental Group on behalf of AT&T and other (if present) wireless carriers as supplied by either the carriers, the site management company, the owning or managing the company, the company's site acquisitions company, carrier's attorneys or other qualified suppliers of data, and that Geist Engineering and Environmental Group on behalf of AT&T's proposed installation involve analog and / or digital wireless communications equipment, antennas and related technical equipment at a location referred to as the "CNU0780 El Camino and Wolf" ("the site"); and

That Geist Engineering and Environmental Group on behalf of AT&T proposes to operate at the site with directional transmit antennas and maximum effective radiated power as documented in the attached worksheets, and that worst-case 100% duty cycle have been assumed; and

That this analysis has been performed with the assumption that the land immediately surrounding the tower is primarily flat or falling; and

That at this time, the FCC requires that certain licensees address specific levels of radio-frequency energy to which workers or members of the public might possibly be exposed (at §1.1307(b) of the FCC Rules), thus Geist Engineering and Environmental Group on behalf of AT&T is presenting this analysis, however, this site is categorically excluded from routine engineering analysis as the height of the transmit antennas is above 10 meters; and

That such consideration of possible exposure of humans to radio-frequency radiation must utilize the standards set by the FCC, which is the Federal Agency having jurisdiction over communications facilities, and that the FCC has presented analysis techniques and guidelines, in its document Office of Science and Technology, Bulletin 65 ("OET65"), a copy of which is available to the public free of charge at www.fcc.gov/oet/rfsafety, and that the analysis presented herein complies with OET65; and

That the FCC rules define two tiers of permissible exposure guidelines: 1) "uncontrolled environments," defined as situations in which persons may not be aware of the presence of electromagnetic energy (the "general public") and (2) "controlled environments", which defines situations in which persons are aware of their potential for exposure (industry personnel), and have received appropriate safety training; and

That this statement specifically addresses the uncontrolled environment (which is more conservative than the controlled environment) and the limit set forth in the FCC rules for this operating frequency is shown on the attached computation worksheet; and

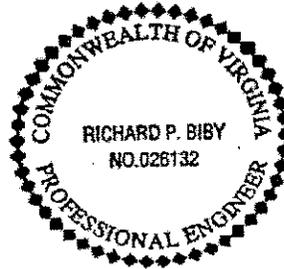
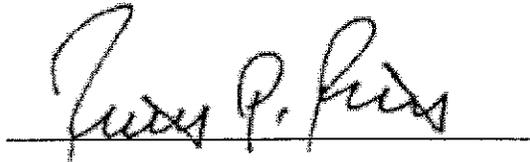
That when applying the uncontrolled environment standards, the cumulative predicted energy density from the proposed operation is no more than 1.30165% of the maximum in any area on the ground; and

That access to the tower will be restricted to communications industry professionals, and approved contractor personnel trained in radio-frequency safety; and

That the Occupational Safety and Health Administration has policies in place which address worker safety in and around communications sites, thus individual companies will be responsible for their employees' training regarding Radio Frequency Safety.

In summary, it is stated here that the proposed operation at the site would not result in exposure of the Public to excessive levels of Radio Frequency Electromagnetic Energy as defined in the FCC Rules and Regulations, specifically 47 CFR 1.1307 and that Geist Engineering and Environmental Group on behalf of AT&T proposed operation is completely compliant.

Finally, it is stated that the instant analysis does not address exposure levels within the secured area of the site, on the tower, or in the immediate proximity of the antennas. Therefore, this analysis is only appropriate to be used as a proof of compliance with the FCC rules and regulations with non-occupational persons, who do not have access to portions of the support structure above ground level.



Richard P. Biby
Registered Professional Engineer
Commonwealth of Virginia Reg. No. 0402-026132
December 22, 2010

Richard P. Biby

Digitally signed by Richard P. Biby
DN: cn=Richard P. Biby, o=Waterford Consultants,
LLC, ou, email=rich@waterfordconsultants.com, c=US
Date: 2010.12.22 08:42:35 -05'00'

**Geist Engineering and Environmental Group on behalf of AT&T
CNU0780 El Camino and Wolf
Site Summary**

Carrier Name	Area Maximum Percentage MPE
AT&T LTE	0.32494894%
AT&T AWS	0.02858262%
AT&T UMTS 1	0.25663971%
AT&T UMTS 3	0.25663971%
AT&T UMTS 2	0.03749472%
AT&T UMTS 4	0.03749472%
AT&T GSM 2	0.03062684%
AT&T GSM 1	0.32922605%
Composite Site MPE	1.30165331%

AT&T LTE
 CNU0780 El Camino and Wolf
 Summary

Frequency: 700 (MHz)
 MPE 466.6666666 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.5164284 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.32494894 %

Make / Model	Height(ft)	Orient°	DT°	ERP(W)	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
ANDREW DBXNH-6565A-VTM_04DT_0725	52	10	0	500	1.5164284	0.32494894
ANDREW DBXNH-6565A-VTM_04DT_0725	52	260	0	500	1.5164284	0.32494894
ANDREW DBXNH-6565A-VTM_04DT_0725	52	150	0	500	1.5164284	0.32494894

AT&T AWS
 CNU0780 El Camino and Wolf
 Summary

Frequency: 2100 (MHz)
 MPE 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 0.28582619 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.02858262 %

Make / Model	Height(ft)	Orient°	DT°	EiRP(W)	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
ANDREW DBXNH-6565A-VTM_04DT_2130	52	10	0	500	0.28582619	0.02858262
ANDREW DBXNH-6565A-VTM_04DT_2130	52	150	0	500	0.28582619	0.02858262
ANDREW DBXNH-6565A-VTM_04DT_2130	52	260	0	500	0.28582619	0.02858262

Frequency: 850 (MHz)
 MPE 566.6666666 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.45429168 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.25663971 %

Make / Model	Height(ft)	Orient°	DT°	ERP(W)	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
ANDREW TBXLHB-6565A-VTM_04DT_0850.pln	47	20	0	500	1.45429168	0.25663971
ANDREW TBXLHB-6565A-VTM_04DT_0850.pln	47	260	0	500	1.45429168	0.25663971
ANDREW TBXLHB-6565A-VTM_04DT_0850.pln	47	140	0	500	1.45429168	0.25663971

AT&T UMTS 3
 CNU0780 El Camino and Wolf
 Summary

Frequency: 850 (MHz)
 MPE 566.666666 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.45429168 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.25663971 %

Make / Model	Height(ft)	Orient°	DT°	ERP(W)	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
ANDREW TBXLHB-6565A-VTM_04DT_0850.pln	47	140	0	500	1.45429168	0.25663971
ANDREW TBXLHB-6565A-VTM_04DT_0850.pln	47	20	0	500	1.45429168	0.25663971
ANDREW TBXLHB-6565A-VTM_04DT_0850.pln	47	260	0	500	1.45429168	0.25663971

AT&T UMTS 2
 CNU0780 El Camino and Wolf
 Summary

Frequency: 1900 (MHz)
 MPE 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 0.37494716 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.03749472 %

Make / Model	Height(ft)	Orient ^o	DT ^o	EIRP(W)	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
ANDREW TBXLHB-6565A-VTM_04DT_1920.pln	47	20	0	500	0.37494716	0.03749472
ANDREW TBXLHB-6565A-VTM_02DT_1920.pln	47	260	0	500	0.29619755	0.02961976
ANDREW TBXLHB-6565A-VTM_02DT_1920.pln	47	140	0	500	0.29619755	0.02961976

**AT&T UMTS 4
CNU0780 El Camino and Wolf
Summary**

Frequency:	1900 (MHz)
MPE	1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level:	0.37494716 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure:	0.03749472 %

Make / Model	Height(ft)	Orient°	DT°	EiRP(W)	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
ANDREW TBXLHB-6565A-VTM_04DT_1920.pln	47	20	0	500	0.37494716	0.03749472
ANDREW TBXLHB-6565A-VTM_04DT_1920.pln	47	260	0	500	0.37494716	0.03749472
ANDREW TBXLHB-6565A-VTM_04DT_1920.pln	47	140	0	500	0.37494716	0.03749472

AT&T GSM 2
 CNU0780 El Camino and Wolf
 Summary

Frequency: 1900 (MHz)
 MPE 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 0.30626836 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.03062684 %

Make / Model	Height(ft)	Orient°	DT°	EIRP(W)	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
ANDREW TBXLHB-6565A-VTM_04DT_1920.pln	52	20	0	500	0.30626836	0.03062684
ANDREW TBXLHB-6565A-VTM_02DT_1920.pln	52	260	0	500	0.24204962	0.02420496
ANDREW TBXLHB-6565A-VTM_02DT_1920.pln	52	140	0	500	0.24204962	0.02420496

AT&T GSM 1
 CNU0780 El Camino and Wolf
 Summary

Frequency: 850 (MHz)
 MPE 566.6666666 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.86561429 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.32922605 %

Make / Model	Height(ft)	Orient°	DT°	ERP(W)	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
ANDREW TBXLHB-6565A-VTM_08DT_0850.pln	52	20	0	500	1.86561429	0.32922605
ANDREW TBXLHB-6565A-VTM_04DT_0850.pln	52	260	0	500	1.18801605	0.20964989
ANDREW TBXLHB-6565A-VTM_04DT_0850.pln	52	140	0	500	1.18801605	0.20964989

AT&T LTE
 CNU0780 El Camino and Wolf
 ANDREW - DBXNH-6565A-VTM_04DT_0725 10° Sector

Maximum Permissible Exposure

(MPE): 466.6666666 μW/cm²

ERP (Watts)	500		Height (feet)	52		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (μW/cm ²)	Percent of MPE
1	0.26	0.942	470.94	907.2	907.3	0.01910840	0.00409466
5	0.04	0.991	495.42	181.0	181.7	0.50130525	0.10742255
10	1.22	0.755	377.55	89.8	91.2	1.51642840	0.32494894
20	9.18	0.121	60.39	43.5	46.3	0.94132747	0.20171303
30	24.74	0.003	1.68	27.4	31.7	0.05589484	0.01197746
35	19.50	0.011	5.61	22.6	27.6	0.24597511	0.05270895
40	18.76	0.013	6.65	18.9	24.6	0.36627099	0.07848664
45	20.76	0.008	4.20	15.8	22.4	0.27965912	0.05992695
50	25.32	0.003	1.47	13.3	20.7	0.11483845	0.02460824
55	32.64	0.001	0.27	11.1	19.3	0.02435843	0.00521966
60	51.89	0.000	0.00	9.1	18.3	0.00029986	0.00006426
65	35.40	0.000	0.14	7.4	17.5	0.01575880	0.00337689
70	30.08	0.001	0.49	5.8	16.8	0.05776013	0.01237717
71	29.52	0.001	0.56	5.4	16.8	0.06648750	0.01424732
72	29.04	0.001	0.62	5.1	16.6	0.07511980	0.01609710
73	28.65	0.001	0.68	4.8	16.6	0.08312439	0.01781237
74	28.31	0.001	0.74	4.5	16.5	0.09086898	0.01947192
75	28.03	0.002	0.79	4.2	16.4	0.09785055	0.02096798
76	27.82	0.002	0.83	4.0	16.3	0.10358246	0.02219624
77	27.64	0.002	0.86	3.7	16.2	0.10890376	0.02333652
78	27.49	0.002	0.89	3.4	16.2	0.11353519	0.02432897
79	27.41	0.002	0.91	3.1	16.1	0.11656377	0.02497795
80	27.33	0.002	0.92	2.8	16.1	0.11942116	0.02559025
81	27.27	0.002	0.94	2.5	16.0	0.12185706	0.02611223
82	27.25	0.002	0.94	2.2	16.0	0.12305533	0.02636900
83	27.23	0.002	0.95	1.9	16.0	0.12419847	0.02661396
84	27.21	0.002	0.95	1.7	15.9	0.12526002	0.02684143
85	27.21	0.002	0.95	1.4	15.9	0.12557533	0.02690900
86	27.27	0.002	0.94	1.1	15.9	0.12432655	0.02664140
87	27.32	0.002	0.93	0.8	15.9	0.12308917	0.02637625
88	27.36	0.002	0.92	0.6	15.8	0.12226869	0.02620043
89	27.45	0.002	0.90	0.3	15.8	0.11973946	0.02565845
90	27.50	0.002	0.89	0.0	15.8	0.11849128	0.02539099

Maximum Permissible Exposure

(MPE):

466.6666666 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	52		Downtilt (Degrees)	0	
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	
1	0.26	0.942	470.94	907.2	907.3	0.01910840	0.00409466	
5	0.04	0.991	495.42	181.0	181.7	0.50130525	0.10742255	
10	1.22	0.755	377.55	89.8	91.2	1.51642840	0.32494894	
20	9.18	0.121	60.39	43.5	46.3	0.94132747	0.20171303	
30	24.74	0.003	1.68	27.4	31.7	0.05589484	0.01197746	
35	19.50	0.011	5.61	22.6	27.6	0.24597511	0.05270895	
40	18.76	0.013	6.65	18.9	24.6	0.36627099	0.07848664	
45	20.76	0.008	4.20	15.8	22.4	0.27965912	0.05992695	
50	25.32	0.003	1.47	13.3	20.7	0.11483845	0.02460824	
55	32.64	0.001	0.27	11.1	19.3	0.02435843	0.00521966	
60	51.89	0.000	0.00	9.1	18.3	0.00029986	0.00006426	
65	35.40	0.000	0.14	7.4	17.5	0.01575880	0.00337689	
70	30.08	0.001	0.49	5.8	16.8	0.05776013	0.01237717	
71	29.52	0.001	0.56	5.4	16.8	0.06648750	0.01424732	
72	29.04	0.001	0.62	5.1	16.6	0.07511980	0.01609710	
73	28.65	0.001	0.68	4.8	16.6	0.08312439	0.01781237	
74	28.31	0.001	0.74	4.5	16.5	0.09086898	0.01947192	
75	28.03	0.002	0.79	4.2	16.4	0.09785055	0.02096798	
76	27.82	0.002	0.83	4.0	16.3	0.10358246	0.02219624	
77	27.64	0.002	0.86	3.7	16.2	0.10890376	0.02333652	
78	27.49	0.002	0.89	3.4	16.2	0.11353519	0.02432897	
79	27.41	0.002	0.91	3.1	16.1	0.11656377	0.02497795	
80	27.33	0.002	0.92	2.8	16.1	0.11942116	0.02559025	
81	27.27	0.002	0.94	2.5	16.0	0.12185706	0.02611223	
82	27.25	0.002	0.94	2.2	16.0	0.12305533	0.02636900	
83	27.23	0.002	0.95	1.9	16.0	0.12419847	0.02661396	
84	27.21	0.002	0.95	1.7	15.9	0.12526002	0.02684143	
85	27.21	0.002	0.95	1.4	15.9	0.12557533	0.02690900	
86	27.27	0.002	0.94	1.1	15.9	0.12432655	0.02664140	
87	27.32	0.002	0.93	0.8	15.9	0.12308917	0.02637625	
88	27.36	0.002	0.92	0.6	15.8	0.12226869	0.02620043	
89	27.45	0.002	0.90	0.3	15.8	0.11973946	0.02565845	
90	27.50	0.002	0.89	0.0	15.8	0.11849128	0.02539099	

Maximum Permissible Exposure

(MPE):

466.666666 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	52		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	0.26	0.942	470.94	907.2	907.3	0.01910840	0.00409466
5	0.04	0.991	495.42	181.0	181.7	0.50130525	0.10742255
10	1.22	0.755	377.55	89.8	91.2	1.51642840	0.32494894
20	9.18	0.121	60.39	43.5	46.3	0.94132747	0.20171303
30	24.74	0.003	1.68	27.4	31.7	0.05589484	0.01197746
35	19.50	0.011	5.61	22.6	27.6	0.24597511	0.05270895
40	18.76	0.013	6.65	18.9	24.6	0.36627099	0.07848664
45	20.76	0.008	4.20	15.8	22.4	0.27965912	0.05992695
50	25.32	0.003	1.47	13.3	20.7	0.11483845	0.02460824
55	32.64	0.001	0.27	11.1	19.3	0.02435843	0.00521966
60	51.89	0.000	0.00	9.1	18.3	0.00029986	0.00006426
65	35.40	0.000	0.14	7.4	17.5	0.01575880	0.00337689
70	30.08	0.001	0.49	5.8	16.8	0.05776013	0.01237717
71	29.52	0.001	0.56	5.4	16.8	0.06648750	0.01424732
72	29.04	0.001	0.62	5.1	16.6	0.07511980	0.01609710
73	28.65	0.001	0.68	4.8	16.6	0.08312439	0.01781237
74	28.31	0.001	0.74	4.5	16.5	0.09086898	0.01947192
75	28.03	0.002	0.79	4.2	16.4	0.09785055	0.02096798
76	27.82	0.002	0.83	4.0	16.3	0.10358246	0.02219624
77	27.64	0.002	0.86	3.7	16.2	0.10890376	0.02333652
78	27.49	0.002	0.89	3.4	16.2	0.11353519	0.02432897
79	27.41	0.002	0.91	3.1	16.1	0.11656377	0.02497795
80	27.33	0.002	0.92	2.8	16.1	0.11942116	0.02559025
81	27.27	0.002	0.94	2.5	16.0	0.12185706	0.02611223
82	27.25	0.002	0.94	2.2	16.0	0.12305533	0.02636900
83	27.23	0.002	0.95	1.9	16.0	0.12419847	0.02661396
84	27.21	0.002	0.95	1.7	15.9	0.12526002	0.02684143
85	27.21	0.002	0.95	1.4	15.9	0.12557533	0.02690900
86	27.27	0.002	0.94	1.1	15.9	0.12432655	0.02664140
87	27.32	0.002	0.93	0.8	15.9	0.12308917	0.02637625
88	27.36	0.002	0.92	0.6	15.8	0.12226869	0.02620043
89	27.45	0.002	0.90	0.3	15.8	0.11973946	0.02565845
90	27.50	0.002	0.89	0.0	15.8	0.11849128	0.02539099

Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)		500	Height (feet)	52	Downtilt (Degrees)	0	
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	2.41	0.574	175.38	907.2	907.3	0.00711580	0.00071158
5	0.34	0.925	282.47	181.0	181.7	0.28582619	0.02858262
10	13.15	0.048	14.79	89.8	91.2	0.05940456	0.00594046
20	21.20	0.008	2.32	43.5	46.3	0.03612059	0.00361206
30	21.88	0.006	1.98	27.4	31.7	0.06597770	0.00659777
35	19.24	0.012	3.64	22.6	27.6	0.15954488	0.01595449
40	20.95	0.008	2.45	18.9	24.6	0.13513673	0.01351367
45	21.45	0.007	2.19	15.8	22.4	0.14574103	0.01457410
50	36.22	0.000	0.07	13.3	20.7	0.00570733	0.00057073
55	27.92	0.002	0.49	11.1	19.3	0.04407133	0.00440713
60	30.93	0.001	0.25	9.1	18.3	0.02463982	0.00246398
65	29.13	0.001	0.37	7.4	17.5	0.04085091	0.00408509
70	30.77	0.001	0.26	5.8	16.8	0.03011345	0.00301135
71	30.92	0.001	0.25	5.4	16.8	0.02941950	0.00294195
72	30.99	0.001	0.24	5.1	16.6	0.02929550	0.00292955
73	31.15	0.001	0.23	4.8	16.6	0.02853587	0.00285359
74	31.55	0.001	0.21	4.5	16.5	0.02632856	0.00263286
75	32.19	0.001	0.18	4.2	16.4	0.02294010	0.00229401
76	33.14	0.000	0.15	4.0	16.3	0.01857880	0.00185788
77	34.31	0.000	0.11	3.7	16.2	0.01433453	0.00143345
78	35.60	0.000	0.08	3.4	16.2	0.01070423	0.00107042
79	36.79	0.000	0.06	3.1	16.1	0.00819585	0.00081958
80	37.60	0.000	0.05	2.8	16.1	0.00686584	0.00068658
81	37.93	0.000	0.05	2.5	16.0	0.00639257	0.00063926
82	37.96	0.000	0.05	2.2	16.0	0.00638468	0.00063847
83	37.87	0.000	0.05	1.9	16.0	0.00653706	0.00065371
84	37.83	0.000	0.05	1.7	15.9	0.00664223	0.00066422
85	37.93	0.000	0.05	1.4	15.9	0.00649753	0.00064975
86	38.15	0.000	0.05	1.1	15.9	0.00619803	0.00061980
87	38.52	0.000	0.04	0.8	15.9	0.00571912	0.00057191
88	39.14	0.000	0.04	0.6	15.8	0.00496096	0.00049610
89	40.07	0.000	0.03	0.3	15.8	0.00398503	0.00039850
90	41.32	0.000	0.02	0.0	15.8	0.00301291	0.00030129

Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	52		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	2.41	0.574	175.38	907.2	907.3	0.00711580	0.00071158
5	0.34	0.925	282.47	181.0	181.7	0.28582619	0.02858262
10	13.15	0.048	14.79	89.8	91.2	0.05940456	0.00594046
20	21.20	0.008	2.32	43.5	46.3	0.03612059	0.00361206
30	21.88	0.006	1.98	27.4	31.7	0.06597770	0.00659777
35	19.24	0.012	3.64	22.6	27.6	0.15954488	0.01595449
40	20.95	0.008	2.45	18.9	24.6	0.13513673	0.01351367
45	21.45	0.007	2.19	15.8	22.4	0.14574103	0.01457410
50	36.22	0.000	0.07	13.3	20.7	0.00570733	0.00057073
55	27.92	0.002	0.49	11.1	19.3	0.04407133	0.00440713
60	30.93	0.001	0.25	9.1	18.3	0.02463982	0.00246398
65	29.13	0.001	0.37	7.4	17.5	0.04085091	0.00408509
70	30.77	0.001	0.26	5.8	16.8	0.03011345	0.00301135
71	30.92	0.001	0.25	5.4	16.8	0.02941950	0.00294195
72	30.99	0.001	0.24	5.1	16.6	0.02929550	0.00292955
73	31.15	0.001	0.23	4.8	16.6	0.02853587	0.00285359
74	31.55	0.001	0.21	4.5	16.5	0.02632856	0.00263286
75	32.19	0.001	0.18	4.2	16.4	0.02294010	0.00229401
76	33.14	0.000	0.15	4.0	16.3	0.01857880	0.00185788
77	34.31	0.000	0.11	3.7	16.2	0.01433453	0.00143345
78	35.60	0.000	0.08	3.4	16.2	0.01070423	0.00107042
79	36.79	0.000	0.06	3.1	16.1	0.00819585	0.00081958
80	37.60	0.000	0.05	2.8	16.1	0.00686584	0.00068658
81	37.93	0.000	0.05	2.5	16.0	0.00639257	0.00063926
82	37.96	0.000	0.05	2.2	16.0	0.00638468	0.00063847
83	37.87	0.000	0.05	1.9	16.0	0.00653706	0.00065371
84	37.83	0.000	0.05	1.7	15.9	0.00664223	0.00066422
85	37.93	0.000	0.05	1.4	15.9	0.00649753	0.00064975
86	38.15	0.000	0.05	1.1	15.9	0.00619803	0.00061980
87	38.52	0.000	0.04	0.8	15.9	0.00571912	0.00057191
88	39.14	0.000	0.04	0.6	15.8	0.00496096	0.00049610
89	40.07	0.000	0.03	0.3	15.8	0.00398503	0.00039850
90	41.32	0.000	0.02	0.0	15.8	0.00301291	0.00030129

Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	52		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	2.41	0.574	175.38	907.2	907.3	0.00711580	0.00071158
5	0.34	0.925	282.47	181.0	181.7	0.28582619	0.02858262
10	13.15	0.048	14.79	89.8	91.2	0.05940456	0.00594046
20	21.20	0.008	2.32	43.5	46.3	0.03612059	0.00361206
30	21.88	0.006	1.98	27.4	31.7	0.06597770	0.00659777
35	19.24	0.012	3.64	22.6	27.6	0.15954488	0.01595449
40	20.95	0.008	2.45	18.9	24.6	0.13513673	0.01351367
45	21.45	0.007	2.19	15.8	22.4	0.14574103	0.01457410
50	36.22	0.000	0.07	13.3	20.7	0.00570733	0.00057073
55	27.92	0.002	0.49	11.1	19.3	0.04407133	0.00440713
60	30.93	0.001	0.25	9.1	18.3	0.02463982	0.00246398
65	29.13	0.001	0.37	7.4	17.5	0.04085091	0.00408509
70	30.77	0.001	0.26	5.8	16.8	0.03011345	0.00301135
71	30.92	0.001	0.25	5.4	16.8	0.02941950	0.00294195
72	30.99	0.001	0.24	5.1	16.6	0.02929550	0.00292955
73	31.15	0.001	0.23	4.8	16.6	0.02853587	0.00285359
74	31.55	0.001	0.21	4.5	16.5	0.02632856	0.00263286
75	32.19	0.001	0.18	4.2	16.4	0.02294010	0.00229401
76	33.14	0.000	0.15	4.0	16.3	0.01857880	0.00185788
77	34.31	0.000	0.11	3.7	16.2	0.01433453	0.00143345
78	35.60	0.000	0.08	3.4	16.2	0.01070423	0.00107042
79	36.79	0.000	0.06	3.1	16.1	0.00819585	0.00081958
80	37.60	0.000	0.05	2.8	16.1	0.00686584	0.00068658
81	37.93	0.000	0.05	2.5	16.0	0.00639257	0.00063926
82	37.96	0.000	0.05	2.2	16.0	0.00638468	0.00063847
83	37.87	0.000	0.05	1.9	16.0	0.00653706	0.00065371
84	37.83	0.000	0.05	1.7	15.9	0.00664223	0.00066422
85	37.93	0.000	0.05	1.4	15.9	0.00649753	0.00064975
86	38.15	0.000	0.05	1.1	15.9	0.00619803	0.00061980
87	38.52	0.000	0.04	0.8	15.9	0.00571912	0.00057191
88	39.14	0.000	0.04	0.6	15.8	0.00496096	0.00049610
89	40.07	0.000	0.03	0.3	15.8	0.00398503	0.00039850
90	41.32	0.000	0.02	0.0	15.8	0.00301291	0.00030129

Maximum Permissible Exposure

(MPE): 566.6666666 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	47		Downtilt (Degrees)		0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	
1	0.21	0.953	476.40	819.9	820.0	0.02366172	0.00417560	
5	0.12	0.973	486.37	163.6	164.2	0.60251806	0.10632672	
10	2.28	0.592	295.78	81.2	82.4	1.45429168	0.25663971	
20	22.87	0.005	2.58	39.3	41.8	0.04926283	0.00869344	
30	16.88	0.021	10.26	24.8	28.6	0.41820115	0.07380020	
35	23.08	0.005	2.46	20.4	25.0	0.13198983	0.02329232	
40	21.39	0.007	3.63	17.1	22.3	0.24449640	0.04314642	
45	17.64	0.017	8.61	14.3	20.2	0.70194548	0.12387273	
50	16.89	0.020	10.23	12.0	18.7	0.97938456	0.17283257	
55	18.82	0.013	6.56	10.0	17.5	0.71801033	0.12670771	
60	22.87	0.005	2.58	8.3	16.5	0.31599675	0.05576413	
65	26.57	0.002	1.10	6.7	15.8	0.14755934	0.02603988	
70	26.75	0.002	1.06	5.2	15.2	0.15213045	0.02684655	
71	26.53	0.002	1.11	4.9	15.1	0.16195866	0.02858094	
72	26.31	0.002	1.17	4.6	15.0	0.17245417	0.03043309	
73	26.63	0.002	1.09	4.4	15.0	0.16193197	0.02857623	
74	26.15	0.002	1.21	4.1	14.9	0.18280870	0.03226036	
75	25.92	0.003	1.28	3.8	14.8	0.19457648	0.03433703	
76	25.80	0.003	1.32	3.6	14.8	0.20187762	0.03562546	
77	25.80	0.003	1.32	3.3	14.7	0.20353009	0.03591707	
78	26.16	0.002	1.21	3.0	14.6	0.18889593	0.03333458	
79	25.88	0.003	1.29	2.8	14.6	0.20284190	0.03579563	
80	25.75	0.003	1.33	2.5	14.5	0.21048935	0.03714518	
81	25.58	0.003	1.38	2.3	14.5	0.22008420	0.03883839	
82	25.60	0.003	1.38	2.0	14.4	0.22026460	0.03887022	
83	26.25	0.002	1.19	1.8	14.4	0.19042217	0.03360391	
84	26.61	0.002	1.09	1.5	14.4	0.17605510	0.03106855	
85	26.96	0.002	1.01	1.2	14.4	0.16287799	0.02874317	
86	26.85	0.002	1.03	1.0	14.4	0.16746834	0.02955324	
87	27.22	0.002	0.95	0.8	14.3	0.15427353	0.02722474	
88	28.10	0.002	0.77	0.5	14.3	0.12614843	0.02226149	
89	28.21	0.002	0.76	0.2	14.3	0.12314425	0.02173134	
90	28.28	0.001	0.74	0.0	14.3	0.12118699	0.02138594	

Maximum Permissible Exposure
 (MPE): 566.6666666 $\mu\text{W}/\text{cm}^2$

ERP (Watts)		500		Height (feet)	47	Downtilt (Degrees)		0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	
1	0.21	0.953	476.40	819.9	820.0	0.02366172	0.00417560	
5	0.12	0.973	486.37	163.6	164.2	0.60251806	0.10632672	
10	2.28	0.592	295.78	81.2	82.4	1.45429168	0.25663971	
20	22.87	0.005	2.58	39.3	41.8	0.04926283	0.00869344	
30	16.88	0.021	10.26	24.8	28.6	0.41820115	0.07380020	
35	23.08	0.005	2.46	20.4	25.0	0.13198983	0.02329232	
40	21.39	0.007	3.63	17.1	22.3	0.24449640	0.04314642	
45	17.64	0.017	8.61	14.3	20.2	0.70194548	0.12387273	
50	16.89	0.020	10.23	12.0	18.7	0.97938456	0.17283257	
55	18.82	0.013	6.56	10.0	17.5	0.71801033	0.12670771	
60	22.87	0.005	2.58	8.3	16.5	0.31599675	0.05576413	
65	26.57	0.002	1.10	6.7	15.8	0.14755934	0.02603988	
70	26.75	0.002	1.06	5.2	15.2	0.15213045	0.02684655	
71	26.53	0.002	1.11	4.9	15.1	0.16195866	0.02858094	
72	26.31	0.002	1.17	4.6	15.0	0.17245417	0.03043309	
73	26.63	0.002	1.09	4.4	15.0	0.16193197	0.02857623	
74	26.15	0.002	1.21	4.1	14.9	0.18280870	0.03226036	
75	25.92	0.003	1.28	3.8	14.8	0.19457648	0.03433703	
76	25.80	0.003	1.32	3.6	14.8	0.20187762	0.03562546	
77	25.80	0.003	1.32	3.3	14.7	0.20353009	0.03591707	
78	26.16	0.002	1.21	3.0	14.6	0.18889593	0.03333458	
79	25.88	0.003	1.29	2.8	14.6	0.20284190	0.03579563	
80	25.75	0.003	1.33	2.5	14.5	0.21048935	0.03714518	
81	25.58	0.003	1.38	2.3	14.5	0.22008420	0.03883839	
82	25.60	0.003	1.38	2.0	14.4	0.22026460	0.03887022	
83	26.25	0.002	1.19	1.8	14.4	0.19042217	0.03360391	
84	26.61	0.002	1.09	1.5	14.4	0.17605510	0.03106855	
85	26.96	0.002	1.01	1.2	14.4	0.16287799	0.02874317	
86	26.85	0.002	1.03	1.0	14.4	0.16746834	0.02955324	
87	27.22	0.002	0.95	0.8	14.3	0.15427353	0.02722474	
88	28.10	0.002	0.77	0.5	14.3	0.12614843	0.02226149	
89	28.21	0.002	0.76	0.2	14.3	0.12314425	0.02173134	
90	28.28	0.001	0.74	0.0	14.3	0.12118699	0.02138594	

Maximum Permissible Exposure

(MPE): 566.666666 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	47		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	0.21	0.953	476.40	819.9	820.0	0.02366172	0.00417560
5	0.12	0.973	486.37	163.6	164.2	0.60251806	0.10632672
10	2.28	0.592	295.78	81.2	82.4	1.45429168	0.25663971
20	22.87	0.005	2.58	39.3	41.8	0.04926283	0.00869344
30	16.88	0.021	10.26	24.8	28.6	0.41820115	0.07380020
35	23.08	0.005	2.46	20.4	25.0	0.13198983	0.02329232
40	21.39	0.007	3.63	17.1	22.3	0.24449640	0.04314642
45	17.64	0.017	8.61	14.3	20.2	0.70194548	0.12387273
50	16.89	0.020	10.23	12.0	18.7	0.97938456	0.17283257
55	18.82	0.013	6.56	10.0	17.5	0.71801033	0.12670771
60	22.87	0.005	2.58	8.3	16.5	0.31599675	0.05576413
65	26.57	0.002	1.10	6.7	15.8	0.14755934	0.02603988
70	26.75	0.002	1.06	5.2	15.2	0.15213045	0.02684655
71	26.53	0.002	1.11	4.9	15.1	0.16195866	0.02858094
72	26.31	0.002	1.17	4.6	15.0	0.17245417	0.03043309
73	26.63	0.002	1.09	4.4	15.0	0.16193197	0.02857623
74	26.15	0.002	1.21	4.1	14.9	0.18280870	0.03226036
75	25.92	0.003	1.28	3.8	14.8	0.19457648	0.03433703
76	25.80	0.003	1.32	3.6	14.8	0.20187762	0.03562546
77	25.80	0.003	1.32	3.3	14.7	0.20353009	0.03591707
78	26.16	0.002	1.21	3.0	14.6	0.18889593	0.03333458
79	25.88	0.003	1.29	2.8	14.6	0.20284190	0.03579563
80	25.75	0.003	1.33	2.5	14.5	0.21048935	0.03714518
81	25.58	0.003	1.38	2.3	14.5	0.22008420	0.03883839
82	25.60	0.003	1.38	2.0	14.4	0.22026460	0.03887022
83	26.25	0.002	1.19	1.8	14.4	0.19042217	0.03360391
84	26.61	0.002	1.09	1.5	14.4	0.17605510	0.03106855
85	26.96	0.002	1.01	1.2	14.4	0.16287799	0.02874317
86	26.85	0.002	1.03	1.0	14.4	0.16746834	0.02955324
87	27.22	0.002	0.95	0.8	14.3	0.15427353	0.02722474
88	28.10	0.002	0.77	0.5	14.3	0.12614843	0.02226149
89	28.21	0.002	0.76	0.2	14.3	0.12314425	0.02173134
90	28.28	0.001	0.74	0.0	14.3	0.12118699	0.02138594

Maximum Permissible Exposure

(MPE):

566.666666 $\mu\text{W}/\text{cm}^2$

ERP (Watts)		500		Height (feet)	47	Downtilt (Degrees)		0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	
1	0.21	0.953	476.40	819.9	820.0	0.02366172	0.00417560	
5	0.12	0.973	486.37	163.6	164.2	0.60251806	0.10632672	
10	2.28	0.592	295.78	81.2	82.4	1.45429168	0.25663971	
20	22.87	0.005	2.58	39.3	41.8	0.04926283	0.00869344	
30	16.88	0.021	10.26	24.8	28.6	0.41820115	0.07380020	
35	23.08	0.005	2.46	20.4	25.0	0.13198983	0.02329232	
40	21.39	0.007	3.63	17.1	22.3	0.24449640	0.04314642	
45	17.64	0.017	8.61	14.3	20.2	0.70194548	0.12387273	
50	16.89	0.020	10.23	12.0	18.7	0.97938456	0.17283257	
55	18.82	0.013	6.56	10.0	17.5	0.71801033	0.12670771	
60	22.87	0.005	2.58	8.3	16.5	0.31599675	0.05576413	
65	26.57	0.002	1.10	6.7	15.8	0.14755934	0.02603988	
70	26.75	0.002	1.06	5.2	15.2	0.15213045	0.02684655	
71	26.53	0.002	1.11	4.9	15.1	0.16195866	0.02858094	
72	26.31	0.002	1.17	4.6	15.0	0.17245417	0.03043309	
73	26.63	0.002	1.09	4.4	15.0	0.16193197	0.02857623	
74	26.15	0.002	1.21	4.1	14.9	0.18280870	0.03226036	
75	25.92	0.003	1.28	3.8	14.8	0.19457648	0.03433703	
76	25.80	0.003	1.32	3.6	14.8	0.20187762	0.03562546	
77	25.80	0.003	1.32	3.3	14.7	0.20353009	0.03591707	
78	26.16	0.002	1.21	3.0	14.6	0.18889593	0.03333458	
79	25.88	0.003	1.29	2.8	14.6	0.20284190	0.03579563	
80	25.75	0.003	1.33	2.5	14.5	0.21048935	0.03714518	
81	25.58	0.003	1.38	2.3	14.5	0.22008420	0.03883839	
82	25.60	0.003	1.38	2.0	14.4	0.22026460	0.03887022	
83	26.25	0.002	1.19	1.8	14.4	0.19042217	0.03360391	
84	26.61	0.002	1.09	1.5	14.4	0.17605510	0.03106855	
85	26.96	0.002	1.01	1.2	14.4	0.16287799	0.02874317	
86	26.85	0.002	1.03	1.0	14.4	0.16746834	0.02955324	
87	27.22	0.002	0.95	0.8	14.3	0.15427353	0.02722474	
88	28.10	0.002	0.77	0.5	14.3	0.12614843	0.02226149	
89	28.21	0.002	0.76	0.2	14.3	0.12314425	0.02173134	
90	28.28	0.001	0.74	0.0	14.3	0.12118699	0.02138594	

Maximum Permissible Exposure
 (MPE): 566.666666 μW/cm²

ERP (Watts)	500		Height (feet)	47		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (μW/cm ²)	Percent of MPE
1	0.21	0.953	476.40	819.9	820.0	0.02366172	0.00417560
5	0.12	0.973	486.37	163.6	164.2	0.60251806	0.10632672
10	2.28	0.592	295.78	81.2	82.4	1.45429168	0.25663971
20	22.87	0.005	2.58	39.3	41.8	0.04926283	0.00869344
30	16.88	0.021	10.26	24.8	28.6	0.41820115	0.07380020
35	23.08	0.005	2.46	20.4	25.0	0.13198983	0.02329232
40	21.39	0.007	3.63	17.1	22.3	0.24449640	0.04314642
45	17.64	0.017	8.61	14.3	20.2	0.70194548	0.12387273
50	16.89	0.020	10.23	12.0	18.7	0.97938456	0.17283257
55	18.82	0.013	6.56	10.0	17.5	0.71801033	0.12670771
60	22.87	0.005	2.58	8.3	16.5	0.31599675	0.05576413
65	26.57	0.002	1.10	6.7	15.8	0.14755934	0.02603988
70	26.75	0.002	1.06	5.2	15.2	0.15213045	0.02684655
71	26.53	0.002	1.11	4.9	15.1	0.16195866	0.02858094
72	26.31	0.002	1.17	4.6	15.0	0.17245417	0.03043309
73	26.63	0.002	1.09	4.4	15.0	0.16193197	0.02857623
74	26.15	0.002	1.21	4.1	14.9	0.18280870	0.03226036
75	25.92	0.003	1.28	3.8	14.8	0.19457648	0.03433703
76	25.80	0.003	1.32	3.6	14.8	0.20187762	0.03562546
77	25.80	0.003	1.32	3.3	14.7	0.20353009	0.03591707
78	26.16	0.002	1.21	3.0	14.6	0.18889593	0.03333458
79	25.88	0.003	1.29	2.8	14.6	0.20284190	0.03579563
80	25.75	0.003	1.33	2.5	14.5	0.21048935	0.03714518
81	25.58	0.003	1.38	2.3	14.5	0.22008420	0.03883839
82	25.60	0.003	1.38	2.0	14.4	0.22026460	0.03887022
83	26.25	0.002	1.19	1.8	14.4	0.19042217	0.03360391
84	26.61	0.002	1.09	1.5	14.4	0.17605510	0.03106855
85	26.96	0.002	1.01	1.2	14.4	0.16287799	0.02874317
86	26.85	0.002	1.03	1.0	14.4	0.16746834	0.02955324
87	27.22	0.002	0.95	0.8	14.3	0.15427353	0.02722474
88	28.10	0.002	0.77	0.5	14.3	0.12614843	0.02226149
89	28.21	0.002	0.76	0.2	14.3	0.12314425	0.02173134
90	28.28	0.001	0.74	0.0	14.3	0.12118699	0.02138594

Maximum Permissible Exposure

(MPE): 566.6666666 $\mu\text{W}/\text{cm}^2$

ERP (Watts)		500		Height (feet)	47	Downtilt (Degrees)		0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	
1	0.21	0.953	476.40	819.9	820.0	0.02366172	0.00417560	
5	0.12	0.973	486.37	163.6	164.2	0.60251806	0.10632672	
10	2.28	0.592	295.78	81.2	82.4	1.45429168	0.25663971	
20	22.87	0.005	2.58	39.3	41.8	0.04926283	0.00869344	
30	16.88	0.021	10.26	24.8	28.6	0.41820115	0.07380020	
35	23.08	0.005	2.46	20.4	25.0	0.13198983	0.02329232	
40	21.39	0.007	3.63	17.1	22.3	0.24449640	0.04314642	
45	17.64	0.017	8.61	14.3	20.2	0.70194548	0.12387273	
50	16.89	0.020	10.23	12.0	18.7	0.97938456	0.17283257	
55	18.82	0.013	6.56	10.0	17.5	0.71801033	0.12670771	
60	22.87	0.005	2.58	8.3	16.5	0.31599675	0.05576413	
65	26.57	0.002	1.10	6.7	15.8	0.14755934	0.02603988	
70	26.75	0.002	1.06	5.2	15.2	0.15213045	0.02684655	
71	26.53	0.002	1.11	4.9	15.1	0.16195866	0.02858094	
72	26.31	0.002	1.17	4.6	15.0	0.17245417	0.03043309	
73	26.63	0.002	1.09	4.4	15.0	0.16193197	0.02857623	
74	26.15	0.002	1.21	4.1	14.9	0.18280870	0.03226036	
75	25.92	0.003	1.28	3.8	14.8	0.19457648	0.03433703	
76	25.80	0.003	1.32	3.6	14.8	0.20187762	0.03562546	
77	25.80	0.003	1.32	3.3	14.7	0.20353009	0.03591707	
78	26.16	0.002	1.21	3.0	14.6	0.18889593	0.03333458	
79	25.88	0.003	1.29	2.8	14.6	0.20284190	0.03579563	
80	25.75	0.003	1.33	2.5	14.5	0.21048935	0.03714518	
81	25.58	0.003	1.38	2.3	14.5	0.22008420	0.03883839	
82	25.60	0.003	1.38	2.0	14.4	0.22026460	0.03887022	
83	26.25	0.002	1.19	1.8	14.4	0.19042217	0.03360391	
84	26.61	0.002	1.09	1.5	14.4	0.17605510	0.03106855	
85	26.96	0.002	1.01	1.2	14.4	0.16287799	0.02874317	
86	26.85	0.002	1.03	1.0	14.4	0.16746834	0.02955324	
87	27.22	0.002	0.95	0.8	14.3	0.15427353	0.02722474	
88	28.10	0.002	0.77	0.5	14.3	0.12614843	0.02226149	
89	28.21	0.002	0.76	0.2	14.3	0.12314425	0.02173134	
90	28.28	0.001	0.74	0.0	14.3	0.12118699	0.02138594	

Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	47		Downtilt (Degrees)		0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	
1	3.34	0.463	141.57	819.9	820.0	0.00703147	0.00070315	
5	0.04	0.991	302.67	163.6	164.2	0.37494716	0.03749472	
10	10.99	0.080	24.32	81.2	82.4	0.11957805	0.01195781	
20	24.37	0.004	1.12	39.3	41.8	0.02130783	0.00213078	
30	23.57	0.004	1.34	24.8	28.6	0.05474393	0.00547439	
35	25.59	0.003	0.84	20.4	25.0	0.04525240	0.00452524	
40	20.75	0.008	2.57	17.1	22.3	0.17309257	0.01730926	
45	40.00	0.000	0.03	14.3	20.2	0.00249055	0.00024906	
50	26.85	0.002	0.63	12.0	18.7	0.06037855	0.00603785	
55	38.65	0.000	0.04	10.0	17.5	0.00454642	0.00045464	
60	30.51	0.001	0.27	8.3	16.5	0.03323518	0.00332352	
65	37.59	0.000	0.05	6.7	15.8	0.00712035	0.00071203	
70	34.76	0.000	0.10	5.2	15.2	0.01469139	0.00146914	
71	33.18	0.000	0.15	4.9	15.1	0.02140966	0.00214097	
72	32.42	0.001	0.18	4.6	15.0	0.02581059	0.00258106	
73	31.89	0.001	0.20	4.4	15.0	0.02945622	0.00294562	
74	31.60	0.001	0.21	4.1	14.9	0.03184440	0.00318444	
75	32.14	0.001	0.19	3.8	14.8	0.02838319	0.00283832	
76	31.53	0.001	0.21	3.6	14.8	0.03296762	0.00329676	
77	31.56	0.001	0.21	3.3	14.7	0.03300108	0.00330011	
78	31.54	0.001	0.21	3.0	14.6	0.03341533	0.00334153	
79	32.14	0.001	0.19	2.8	14.6	0.02932530	0.00293253	
80	32.19	0.001	0.18	2.5	14.5	0.02918919	0.00291892	
81	32.89	0.001	0.16	2.3	14.5	0.02497714	0.00249771	
82	34.05	0.000	0.12	2.0	14.4	0.01925205	0.00192520	
83	34.46	0.000	0.11	1.8	14.4	0.01756584	0.00175658	
84	35.41	0.000	0.09	1.5	14.4	0.01419016	0.00141902	
85	36.77	0.000	0.06	1.2	14.4	0.01037581	0.00103758	
86	37.73	0.000	0.05	1.0	14.4	0.00837335	0.00083734	
87	39.17	0.000	0.04	0.8	14.3	0.00601187	0.00060119	
88	40.00	0.000	0.03	0.5	14.3	0.00497543	0.00049754	
89	40.00	0.000	0.03	0.2	14.3	0.00498238	0.00049824	
90	40.00	0.000	0.03	0.0	14.3	0.00498238	0.00049824	

AT&T UMTS 2
 CNU0780 El Camino and Wolf
 ANDREW - TBXLHB-6565A-VTM_02DT_1920.pln 260° Sector

ATTACHMENT E
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Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)		500	Height (feet)	47	Downtilt (Degrees)	0	
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	0.26	0.942	287.72	819.9	820.0	0.01429047	0.00142905
5	2.61	0.548	167.48	163.6	164.2	0.20747705	0.02074771
10	17.46	0.018	5.48	81.2	82.4	0.02695523	0.00269552
20	20.87	0.008	2.50	39.3	41.8	0.04770366	0.00477037
30	19.16	0.012	3.71	24.8	28.6	0.15114058	0.01511406
35	17.43	0.018	5.52	20.4	25.0	0.29619755	0.02961976
40	22.29	0.006	1.80	17.1	22.3	0.12141577	0.01214158
45	26.20	0.002	0.73	14.3	20.2	0.05974830	0.00597483
50	21.49	0.007	2.17	12.0	18.7	0.20747998	0.02074800
55	22.13	0.006	1.87	10.0	17.5	0.20472257	0.02047226
60	31.92	0.001	0.20	8.3	16.5	0.02403849	0.00240385
65	26.51	0.002	0.68	6.7	15.8	0.09141874	0.00914187
70	24.06	0.004	1.20	5.2	15.2	0.17268986	0.01726899
71	24.13	0.004	1.18	4.9	15.1	0.17198941	0.01719894
72	24.27	0.004	1.14	4.6	15.0	0.16851209	0.01685121
73	24.48	0.004	1.09	4.4	15.0	0.16230514	0.01623051
74	24.82	0.003	1.01	4.1	14.9	0.15167505	0.01516751
75	25.46	0.003	0.87	3.8	14.8	0.13211421	0.01321142
76	25.88	0.003	0.79	3.6	14.8	0.12108450	0.01210845
77	26.56	0.002	0.67	3.3	14.7	0.10439311	0.01043931
78	27.37	0.002	0.56	3.0	14.6	0.08732793	0.00873279
79	28.00	0.002	0.48	2.8	14.6	0.07607300	0.00760730
80	29.23	0.001	0.36	2.5	14.5	0.05770181	0.00577018
81	29.49	0.001	0.34	2.3	14.5	0.05466786	0.00546679
82	30.73	0.001	0.26	2.0	14.4	0.04128928	0.00412893
83	30.67	0.001	0.26	1.8	14.4	0.04205006	0.00420501
84	32.09	0.001	0.19	1.5	14.4	0.03044971	0.00304497
85	33.14	0.000	0.15	1.2	14.4	0.02396319	0.00239632
86	34.52	0.000	0.11	1.0	14.4	0.01748990	0.00174899
87	35.89	0.000	0.08	0.8	14.3	0.01281869	0.00128187
88	35.97	0.000	0.08	0.5	14.3	0.01258783	0.00125878
89	39.09	0.000	0.04	0.2	14.3	0.00612833	0.00061283
90	39.19	0.000	0.04	0.0	14.3	0.00602868	0.00060287

Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	47		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	0.26	0.942	287.72	819.9	820.0	0.01429047	0.00142905
5	2.61	0.548	167.48	163.6	164.2	0.20747705	0.02074771
10	17.46	0.018	5.48	81.2	82.4	0.02695523	0.00269552
20	20.87	0.008	2.50	39.3	41.8	0.04770366	0.00477037
30	19.16	0.012	3.71	24.8	28.6	0.15114058	0.01511406
35	17.43	0.018	5.52	20.4	25.0	0.29619755	0.02961976
40	22.29	0.006	1.80	17.1	22.3	0.12141577	0.01214158
45	26.20	0.002	0.73	14.3	20.2	0.05974830	0.00597483
50	21.49	0.007	2.17	12.0	18.7	0.20747998	0.02074800
55	22.13	0.006	1.87	10.0	17.5	0.20472257	0.02047226
60	31.92	0.001	0.20	8.3	16.5	0.02403849	0.00240385
65	26.51	0.002	0.68	6.7	15.8	0.09141874	0.00914187
70	24.06	0.004	1.20	5.2	15.2	0.17268986	0.01726899
71	24.13	0.004	1.18	4.9	15.1	0.17198941	0.01719894
72	24.27	0.004	1.14	4.6	15.0	0.16851209	0.01685121
73	24.48	0.004	1.09	4.4	15.0	0.16230514	0.01623051
74	24.82	0.003	1.01	4.1	14.9	0.15167505	0.01516751
75	25.46	0.003	0.87	3.8	14.8	0.13211421	0.01321142
76	25.88	0.003	0.79	3.6	14.8	0.12108450	0.01210845
77	26.56	0.002	0.67	3.3	14.7	0.10439311	0.01043931
78	27.37	0.002	0.56	3.0	14.6	0.08732793	0.00873279
79	28.00	0.002	0.48	2.8	14.6	0.07607300	0.00760730
80	29.23	0.001	0.36	2.5	14.5	0.05770181	0.00577018
81	29.49	0.001	0.34	2.3	14.5	0.05466786	0.00546679
82	30.73	0.001	0.26	2.0	14.4	0.04128928	0.00412893
83	30.67	0.001	0.26	1.8	14.4	0.04205006	0.00420501
84	32.09	0.001	0.19	1.5	14.4	0.03044971	0.00304497
85	33.14	0.000	0.15	1.2	14.4	0.02396319	0.00239632
86	34.52	0.000	0.11	1.0	14.4	0.01748990	0.00174899
87	35.89	0.000	0.08	0.8	14.3	0.01281869	0.00128187
88	35.97	0.000	0.08	0.5	14.3	0.01258783	0.00125878
89	39.09	0.000	0.04	0.2	14.3	0.00612833	0.00061283
90	39.19	0.000	0.04	0.0	14.3	0.00602868	0.00060287

Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	47		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	3.34	0.463	141.57	819.9	820.0	0.00703147	0.00070315
5	0.04	0.991	302.67	163.6	164.2	0.37494716	0.03749472
10	10.99	0.080	24.32	81.2	82.4	0.11957805	0.01195781
20	24.37	0.004	1.12	39.3	41.8	0.02130783	0.00213078
30	23.57	0.004	1.34	24.8	28.6	0.05474393	0.00547439
35	25.59	0.003	0.84	20.4	25.0	0.04525240	0.00452524
40	20.75	0.008	2.57	17.1	22.3	0.17309257	0.01730926
45	40.00	0.000	0.03	14.3	20.2	0.00249055	0.00024906
50	26.85	0.002	0.63	12.0	18.7	0.06037855	0.00603785
55	38.65	0.000	0.04	10.0	17.5	0.00454642	0.00045464
60	30.51	0.001	0.27	8.3	16.5	0.03323518	0.00332352
65	37.59	0.000	0.05	6.7	15.8	0.00712035	0.00071203
70	34.76	0.000	0.10	5.2	15.2	0.01469139	0.00146914
71	33.18	0.000	0.15	4.9	15.1	0.02140966	0.00214097
72	32.42	0.001	0.18	4.6	15.0	0.02581059	0.00258106
73	31.89	0.001	0.20	4.4	15.0	0.02945622	0.00294562
74	31.60	0.001	0.21	4.1	14.9	0.03184440	0.00318444
75	32.14	0.001	0.19	3.8	14.8	0.02838319	0.00283832
76	31.53	0.001	0.21	3.6	14.8	0.03296762	0.00329676
77	31.56	0.001	0.21	3.3	14.7	0.03300108	0.00330011
78	31.54	0.001	0.21	3.0	14.6	0.03341533	0.00334153
79	32.14	0.001	0.19	2.8	14.6	0.02932530	0.00293253
80	32.19	0.001	0.18	2.5	14.5	0.02918919	0.00291892
81	32.89	0.001	0.16	2.3	14.5	0.02497714	0.00249771
82	34.05	0.000	0.12	2.0	14.4	0.01925205	0.00192520
83	34.46	0.000	0.11	1.8	14.4	0.01756584	0.00175658
84	35.41	0.000	0.09	1.5	14.4	0.01419016	0.00141902
85	36.77	0.000	0.06	1.2	14.4	0.01037581	0.00103758
86	37.73	0.000	0.05	1.0	14.4	0.00837335	0.00083734
87	39.17	0.000	0.04	0.8	14.3	0.00601187	0.00060119
88	40.00	0.000	0.03	0.5	14.3	0.00497543	0.00049754
89	40.00	0.000	0.03	0.2	14.3	0.00498238	0.00049824
90	40.00	0.000	0.03	0.0	14.3	0.00498238	0.00049824

Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	47		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	3.34	0.463	141.57	819.9	820.0	0.00703147	0.00070315
5	0.04	0.991	302.67	163.6	164.2	0.37494716	0.03749472
10	10.99	0.080	24.32	81.2	82.4	0.11957805	0.01195781
20	24.37	0.004	1.12	39.3	41.8	0.02130783	0.00213078
30	23.57	0.004	1.34	24.8	28.6	0.05474393	0.00547439
35	25.59	0.003	0.84	20.4	25.0	0.04525240	0.00452524
40	20.75	0.008	2.57	17.1	22.3	0.17309257	0.01730926
45	40.00	0.000	0.03	14.3	20.2	0.00249055	0.00024906
50	26.85	0.002	0.63	12.0	18.7	0.06037855	0.00603785
55	38.65	0.000	0.04	10.0	17.5	0.00454642	0.00045464
60	30.51	0.001	0.27	8.3	16.5	0.03323518	0.00332352
65	37.59	0.000	0.05	6.7	15.8	0.00712035	0.00071203
70	34.76	0.000	0.10	5.2	15.2	0.01469139	0.00146914
71	33.18	0.000	0.15	4.9	15.1	0.02140966	0.00214097
72	32.42	0.001	0.18	4.6	15.0	0.02581059	0.00258106
73	31.89	0.001	0.20	4.4	15.0	0.02945622	0.00294562
74	31.60	0.001	0.21	4.1	14.9	0.03184440	0.00318444
75	32.14	0.001	0.19	3.8	14.8	0.02838319	0.00283832
76	31.53	0.001	0.21	3.6	14.8	0.03296762	0.00329676
77	31.56	0.001	0.21	3.3	14.7	0.03300108	0.00330011
78	31.54	0.001	0.21	3.0	14.6	0.03341533	0.00334153
79	32.14	0.001	0.19	2.8	14.6	0.02932530	0.00293253
80	32.19	0.001	0.18	2.5	14.5	0.02918919	0.00291892
81	32.89	0.001	0.16	2.3	14.5	0.02497714	0.00249771
82	34.05	0.000	0.12	2.0	14.4	0.01925205	0.00192520
83	34.46	0.000	0.11	1.8	14.4	0.01756584	0.00175658
84	35.41	0.000	0.09	1.5	14.4	0.01419016	0.00141902
85	36.77	0.000	0.06	1.2	14.4	0.01037581	0.00103758
86	37.73	0.000	0.05	1.0	14.4	0.00837335	0.00083734
87	39.17	0.000	0.04	0.8	14.3	0.00601187	0.00060119
88	40.00	0.000	0.03	0.5	14.3	0.00497543	0.00049754
89	40.00	0.000	0.03	0.2	14.3	0.00498238	0.00049824
90	40.00	0.000	0.03	0.0	14.3	0.00498238	0.00049824

Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	47		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	3.34	0.463	141.57	819.9	820.0	0.00703147	0.00070315
5	0.04	0.991	302.67	163.6	164.2	0.37494716	0.03749472
10	10.99	0.080	24.32	81.2	82.4	0.11957805	0.01195781
20	24.37	0.004	1.12	39.3	41.8	0.02130783	0.00213078
30	23.57	0.004	1.34	24.8	28.6	0.05474393	0.00547439
35	25.59	0.003	0.84	20.4	25.0	0.04525240	0.00452524
40	20.75	0.008	2.57	17.1	22.3	0.17309257	0.01730926
45	40.00	0.000	0.03	14.3	20.2	0.00249055	0.00024906
50	26.85	0.002	0.63	12.0	18.7	0.06037855	0.00603785
55	38.65	0.000	0.04	10.0	17.5	0.00454642	0.00045464
60	30.51	0.001	0.27	8.3	16.5	0.03323518	0.00332352
65	37.59	0.000	0.05	6.7	15.8	0.00712035	0.00071203
70	34.76	0.000	0.10	5.2	15.2	0.01469139	0.00146914
71	33.18	0.000	0.15	4.9	15.1	0.02140966	0.00214097
72	32.42	0.001	0.18	4.6	15.0	0.02581059	0.00258106
73	31.89	0.001	0.20	4.4	15.0	0.02945622	0.00294562
74	31.60	0.001	0.21	4.1	14.9	0.03184440	0.00318444
75	32.14	0.001	0.19	3.8	14.8	0.02838319	0.00283832
76	31.53	0.001	0.21	3.6	14.8	0.03296762	0.00329676
77	31.56	0.001	0.21	3.3	14.7	0.03300108	0.00330011
78	31.54	0.001	0.21	3.0	14.6	0.03341533	0.00334153
79	32.14	0.001	0.19	2.8	14.6	0.02932530	0.00293253
80	32.19	0.001	0.18	2.5	14.5	0.02918919	0.00291892
81	32.89	0.001	0.16	2.3	14.5	0.02497714	0.00249771
82	34.05	0.000	0.12	2.0	14.4	0.01925205	0.00192520
83	34.46	0.000	0.11	1.8	14.4	0.01756584	0.00175658
84	35.41	0.000	0.09	1.5	14.4	0.01419016	0.00141902
85	36.77	0.000	0.06	1.2	14.4	0.01037581	0.00103758
86	37.73	0.000	0.05	1.0	14.4	0.00837335	0.00083734
87	39.17	0.000	0.04	0.8	14.3	0.00601187	0.00060119
88	40.00	0.000	0.03	0.5	14.3	0.00497543	0.00049754
89	40.00	0.000	0.03	0.2	14.3	0.00498238	0.00049824
90	40.00	0.000	0.03	0.0	14.3	0.00498238	0.00049824

Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	52		Downtilt (Degrees)		0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	
1	3.34	0.463	141.57	907.2	907.3	0.00574413	0.00057441	
5	0.04	0.991	302.67	181.0	181.7	0.30626836	0.03062684	
10	10.99	0.080	24.32	89.8	91.2	0.09768374	0.00976837	
20	24.37	0.004	1.12	43.5	46.3	0.01740797	0.00174080	
30	23.57	0.004	1.34	27.4	31.7	0.04470737	0.00447074	
35	25.59	0.003	0.84	22.6	27.6	0.03697980	0.00369798	
40	20.75	0.008	2.57	18.9	24.6	0.14151094	0.01415109	
45	40.00	0.000	0.03	15.8	22.4	0.00203520	0.00020352	
50	26.85	0.002	0.63	13.3	20.7	0.04931232	0.00493123	
55	38.65	0.000	0.04	11.1	19.3	0.00371357	0.00037136	
60	30.51	0.001	0.27	9.1	18.3	0.02714349	0.00271435	
65	37.59	0.000	0.05	7.4	17.5	0.00581674	0.00058167	
70	34.76	0.000	0.10	5.8	16.8	0.01200226	0.00120023	
71	33.18	0.000	0.15	5.4	16.8	0.01749169	0.00174917	
72	32.42	0.001	0.18	5.1	16.6	0.02108834	0.00210883	
73	31.89	0.001	0.20	4.8	16.6	0.02407132	0.00240713	
74	31.60	0.001	0.21	4.5	16.5	0.02602767	0.00260277	
75	32.14	0.001	0.19	4.2	16.4	0.02320597	0.00232060	
76	31.53	0.001	0.21	4.0	16.3	0.02692969	0.00269297	
77	31.56	0.001	0.21	3.7	16.2	0.02696901	0.00269690	
78	31.54	0.001	0.21	3.4	16.2	0.02728605	0.00272860	
79	32.14	0.001	0.19	3.1	16.1	0.02396011	0.00239601	
80	32.19	0.001	0.18	2.8	16.1	0.02383314	0.00238331	
81	32.89	0.001	0.16	2.5	16.0	0.02040856	0.00204086	
82	34.05	0.000	0.12	2.2	16.0	0.01572228	0.00157223	
83	34.46	0.000	0.11	1.9	16.0	0.01435747	0.00143575	
84	35.41	0.000	0.09	1.7	15.9	0.01159372	0.00115937	
85	36.77	0.000	0.06	1.4	15.9	0.00847503	0.00084750	
86	37.73	0.000	0.05	1.1	15.9	0.00684619	0.00068462	
87	39.17	0.000	0.04	0.8	15.9	0.00490790	0.00049079	
88	40.00	0.000	0.03	0.6	15.8	0.00406636	0.00040664	
89	40.00	0.000	0.03	0.3	15.8	0.00406636	0.00040664	
90	40.00	0.000	0.03	0.0	15.8	0.00407150	0.00040715	

Maximum Permissible Exposure
 (MPE): 1000 μW/cm²

ERP (Watts)		500	Height (feet)	52	Downtilt (Degrees)	0	
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (μW/cm ²)	Percent of MPE
1	0.26	0.942	287.72	907.2	907.3	0.01167412	0.00116741
5	2.61	0.548	167.48	181.0	181.7	0.16947363	0.01694736
10	17.46	0.018	5.48	89.8	91.2	0.02201982	0.00220198
20	20.87	0.008	2.50	43.5	46.3	0.03897272	0.00389727
30	19.16	0.012	3.71	27.4	31.7	0.12343099	0.01234310
35	17.43	0.018	5.52	22.6	27.6	0.24204962	0.02420496
40	22.29	0.006	1.80	18.9	24.6	0.09926285	0.00992628
45	26.20	0.002	0.73	15.8	22.4	0.04882457	0.00488246
50	21.49	0.007	2.17	13.3	20.7	0.16945290	0.01694529
55	22.13	0.006	1.87	11.1	19.3	0.16721985	0.01672198
60	31.92	0.001	0.20	9.1	18.3	0.01963247	0.00196325
65	26.51	0.002	0.68	7.4	17.5	0.07468162	0.00746816
70	24.06	0.004	1.20	5.8	16.8	0.14108045	0.01410804
71	24.13	0.004	1.18	5.4	16.8	0.14051537	0.01405154
72	24.27	0.004	1.14	5.1	16.6	0.13768150	0.01376815
73	24.48	0.004	1.09	4.8	16.6	0.13263411	0.01326341
74	24.82	0.003	1.01	4.5	16.5	0.12396993	0.01239699
75	25.46	0.003	0.87	4.2	16.4	0.10801598	0.01080160
76	25.88	0.003	0.79	4.0	16.3	0.09890819	0.00989082
77	26.56	0.002	0.67	3.7	16.2	0.08531172	0.00853117
78	27.37	0.002	0.56	3.4	16.2	0.07130962	0.00713096
79	28.00	0.002	0.48	3.1	16.1	0.06215512	0.00621551
80	29.23	0.001	0.36	2.8	16.1	0.04711385	0.00471138
81	29.49	0.001	0.34	2.5	16.0	0.04466855	0.00446685
82	30.73	0.001	0.26	2.2	16.0	0.03371911	0.00337191
83	30.67	0.001	0.26	1.9	16.0	0.03436970	0.00343697
84	32.09	0.001	0.19	1.7	15.9	0.02487818	0.00248782
85	33.14	0.000	0.15	1.4	15.9	0.01957329	0.00195733
86	34.52	0.000	0.11	1.1	15.9	0.01430004	0.00143000
87	35.89	0.000	0.08	0.8	15.9	0.01046477	0.00104648
88	35.97	0.000	0.08	0.6	15.8	0.01028789	0.00102879
89	39.09	0.000	0.04	0.3	15.8	0.00500162	0.00050016
90	39.19	0.000	0.04	0.0	15.8	0.00492652	0.00049265

Maximum Permissible Exposure
 (MPE): 1000 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	52		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	0.26	0.942	287.72	907.2	907.3	0.01167412	0.00116741
5	2.61	0.548	167.48	181.0	181.7	0.16947363	0.01694736
10	17.46	0.018	5.48	89.8	91.2	0.02201982	0.00220198
20	20.87	0.008	2.50	43.5	46.3	0.03897272	0.00389727
30	19.16	0.012	3.71	27.4	31.7	0.12343099	0.01234310
35	17.43	0.018	5.52	22.6	27.6	0.24204962	0.02420496
40	22.29	0.006	1.80	18.9	24.6	0.09926285	0.00992628
45	26.20	0.002	0.73	15.8	22.4	0.04882457	0.00488246
50	21.49	0.007	2.17	13.3	20.7	0.16945290	0.01694529
55	22.13	0.006	1.87	11.1	19.3	0.16721985	0.01672198
60	31.92	0.001	0.20	9.1	18.3	0.01963247	0.00196325
65	26.51	0.002	0.68	7.4	17.5	0.07468162	0.00746816
70	24.06	0.004	1.20	5.8	16.8	0.14108045	0.01410804
71	24.13	0.004	1.18	5.4	16.8	0.14051537	0.01405154
72	24.27	0.004	1.14	5.1	16.6	0.13768150	0.01376815
73	24.48	0.004	1.09	4.8	16.6	0.13263411	0.01326341
74	24.82	0.003	1.01	4.5	16.5	0.12396993	0.01239699
75	25.46	0.003	0.87	4.2	16.4	0.10801598	0.01080160
76	25.88	0.003	0.79	4.0	16.3	0.09890819	0.00989082
77	26.56	0.002	0.67	3.7	16.2	0.08531172	0.00853117
78	27.37	0.002	0.56	3.4	16.2	0.07130962	0.00713096
79	28.00	0.002	0.48	3.1	16.1	0.06215512	0.00621551
80	29.23	0.001	0.36	2.8	16.1	0.04711385	0.00471138
81	29.49	0.001	0.34	2.5	16.0	0.04466855	0.00446685
82	30.73	0.001	0.26	2.2	16.0	0.03371911	0.00337191
83	30.67	0.001	0.26	1.9	16.0	0.03436970	0.00343697
84	32.09	0.001	0.19	1.7	15.9	0.02487818	0.00248782
85	33.14	0.000	0.15	1.4	15.9	0.01957329	0.00195733
86	34.52	0.000	0.11	1.1	15.9	0.01430004	0.00143000
87	35.89	0.000	0.08	0.8	15.9	0.01046477	0.00104648
88	35.97	0.000	0.08	0.6	15.8	0.01028789	0.00102879
89	39.09	0.000	0.04	0.3	15.8	0.00500162	0.00050016
90	39.19	0.000	0.04	0.0	15.8	0.00492652	0.00049265

AT&T GSM 1
 CNU0780 El Camino and Wolf
 ANDREW - TBXLHB-6565A-VTM_08DT_0850.pln 20° Sector

Maximum Permissible Exposure

(MPE):

566.6666666 $\mu\text{W}/\text{cm}^2$

ERP (Watts)		500		Height (feet)	52	Downtilt (Degrees)		0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	
1	1.98	0.634	316.94	907.2	907.3	0.01285951	0.00226933	
5	0.25	0.944	472.03	181.0	181.7	0.47764176	0.08428972	
10	0.32	0.929	464.48	89.8	91.2	1.86561429	0.32922605	
20	8.49	0.142	70.79	43.5	46.3	1.10342025	0.19472122	
30	21.99	0.006	3.16	27.4	31.7	0.10529608	0.01858166	
35	19.52	0.011	5.58	22.6	27.6	0.24485704	0.04321007	
40	26.63	0.002	1.09	18.9	24.6	0.05982013	0.01055649	
45	30.17	0.001	0.48	15.8	22.4	0.03204670	0.00565530	
50	22.74	0.005	2.66	13.3	20.7	0.20798345	0.03670296	
55	21.22	0.008	3.78	11.1	19.3	0.33748714	0.05955655	
60	21.12	0.008	3.86	9.1	18.3	0.38616686	0.06814709	
65	22.72	0.005	2.67	7.4	17.5	0.29252273	0.05162166	
70	26.25	0.002	1.19	5.8	16.8	0.13945954	0.02461051	
71	27.04	0.002	0.99	5.4	16.8	0.11767752	0.02076662	
72	27.97	0.002	0.80	5.1	16.6	0.09614371	0.01696654	
73	29.14	0.001	0.61	4.8	16.6	0.07423343	0.01310002	
74	30.19	0.001	0.48	4.5	16.5	0.05891708	0.01039713	
75	31.50	0.001	0.35	4.2	16.4	0.04401410	0.00776719	
76	32.46	0.001	0.28	4.0	16.3	0.03561431	0.00628488	
77	33.93	0.000	0.20	3.7	16.2	0.02561325	0.00451999	
78	34.98	0.000	0.16	3.4	16.2	0.02026049	0.00357538	
79	36.06	0.000	0.12	3.1	16.1	0.01591840	0.00280913	
80	37.27	0.000	0.09	2.8	16.1	0.01207775	0.00213137	
81	38.23	0.000	0.08	2.5	16.0	0.00974856	0.00172033	
82	38.85	0.000	0.06	2.2	16.0	0.00849108	0.00149843	
83	40.00	0.000	0.05	1.9	16.0	0.00656440	0.00115842	
84	40.00	0.000	0.05	1.7	15.9	0.00658916	0.00116279	
85	40.00	0.000	0.05	1.4	15.9	0.00660575	0.00116572	
86	40.00	0.000	0.05	1.1	15.9	0.00663075	0.00117013	
87	40.00	0.000	0.05	0.8	15.9	0.00663911	0.00117161	
88	40.00	0.000	0.05	0.6	15.8	0.00665589	0.00117457	
89	40.00	0.000	0.05	0.3	15.8	0.00665589	0.00117457	
90	40.00	0.000	0.05	0.0	15.8	0.00666430	0.00117605	

Maximum Permissible Exposure

(MPE):

566.6666666 $\mu\text{W}/\text{cm}^2$

ERP (Watts)	500		Height (feet)	52		Downtilt (Degrees)	0
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
1	0.21	0.953	476.40	907.2	907.3	0.01932966	0.00341112
5	0.12	0.973	486.37	181.0	181.7	0.49215526	0.08685093
10	2.28	0.592	295.78	89.8	91.2	1.18801605	0.20964989
20	22.87	0.005	2.58	43.5	46.3	0.04024652	0.00710233
30	16.88	0.021	10.26	27.4	31.7	0.34152960	0.06026993
35	23.08	0.005	2.46	22.6	27.6	0.10786074	0.01903425
40	21.39	0.007	3.63	18.9	24.6	0.19988679	0.03527414
45	17.64	0.017	8.61	15.8	22.4	0.57360933	0.10122518
50	16.89	0.020	10.23	13.3	20.7	0.79988222	0.14115569
55	18.82	0.013	6.56	11.1	19.3	0.58647945	0.10349637
60	22.87	0.005	2.58	9.1	18.3	0.25807761	0.04554311
65	26.57	0.002	1.10	7.4	17.5	0.12054388	0.02127245
70	26.75	0.002	1.06	5.8	16.8	0.12428427	0.02193252
71	26.53	0.002	1.11	5.4	16.8	0.13232025	0.02335063
72	26.31	0.002	1.17	5.1	16.6	0.14090234	0.02486512
73	26.63	0.002	1.09	4.8	16.6	0.13232915	0.02335220
74	26.15	0.002	1.21	4.5	16.5	0.14941667	0.02636765
75	25.92	0.003	1.28	4.2	16.4	0.15908486	0.02807380
76	25.80	0.003	1.32	4.0	16.3	0.16490427	0.02910075
77	25.80	0.003	1.32	3.7	16.2	0.16632805	0.02935201
78	26.16	0.002	1.21	3.4	16.2	0.15424730	0.02722011
79	25.88	0.003	1.29	3.1	16.1	0.16573109	0.02924666
80	25.75	0.003	1.33	2.8	16.1	0.17186572	0.03032924
81	25.58	0.003	1.38	2.5	16.0	0.17982853	0.03173445
82	25.60	0.003	1.38	2.2	16.0	0.17988025	0.03174357
83	26.25	0.002	1.19	1.9	16.0	0.15564195	0.02746623
84	26.61	0.002	1.09	1.7	15.9	0.14384146	0.02538379
85	26.96	0.002	1.01	1.4	15.9	0.13303983	0.02347762
86	26.85	0.002	1.03	1.1	15.9	0.13692498	0.02416323
87	27.22	0.002	0.95	0.8	15.9	0.12594399	0.02222541
88	28.10	0.002	0.77	0.6	15.8	0.10309973	0.01819407
89	28.21	0.002	0.76	0.3	15.8	0.10050393	0.01773599
90	28.28	0.001	0.74	0.0	15.8	0.09903152	0.01747615

AT&T GSM 1
 CNU0780 El Camino and Wolf
 ANDREW - TBXLHB-6565A-VTM_04DT_0850.pln 140° Sector

Maximum Permissible Exposure

(MPE): 566.6666666 μ W/cm²

ERP (Watts)			Height (feet)			Downtilt (Degrees)		
	500			52		0		
Depression Angle	Relative dB	Relative Gain	ERP in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (μ W/cm ²)	Percent of MPE	
1	0.21	0.953	476.40	907.2	907.3	0.01932966	0.00341112	
5	0.12	0.973	486.37	181.0	181.7	0.49215526	0.08685093	
10	2.28	0.592	295.78	89.8	91.2	1.18801605	0.20964989	
20	22.87	0.005	2.58	43.5	46.3	0.04024652	0.00710233	
30	16.88	0.021	10.26	27.4	31.7	0.34152960	0.06026993	
35	23.08	0.005	2.46	22.6	27.6	0.10786074	0.01903425	
40	21.39	0.007	3.63	18.9	24.6	0.19988679	0.03527414	
45	17.64	0.017	8.61	15.8	22.4	0.57360933	0.10122518	
50	16.89	0.020	10.23	13.3	20.7	0.79988222	0.14115569	
55	18.82	0.013	6.56	11.1	19.3	0.58647945	0.10349637	
60	22.87	0.005	2.58	9.1	18.3	0.25807761	0.04554311	
65	26.57	0.002	1.10	7.4	17.5	0.12054388	0.02127245	
70	26.75	0.002	1.06	5.8	16.8	0.12428427	0.02193252	
71	26.53	0.002	1.11	5.4	16.8	0.13232025	0.02335063	
72	26.31	0.002	1.17	5.1	16.6	0.14090234	0.02486512	
73	26.63	0.002	1.09	4.8	16.6	0.13232915	0.02335220	
74	26.15	0.002	1.21	4.5	16.5	0.14941667	0.02636765	
75	25.92	0.003	1.28	4.2	16.4	0.15908486	0.02807380	
76	25.80	0.003	1.32	4.0	16.3	0.16490427	0.02910075	
77	25.80	0.003	1.32	3.7	16.2	0.16632805	0.02935201	
78	26.16	0.002	1.21	3.4	16.2	0.15424730	0.02722011	
79	25.88	0.003	1.29	3.1	16.1	0.16573109	0.02924666	
80	25.75	0.003	1.33	2.8	16.1	0.17186572	0.03032924	
81	25.58	0.003	1.38	2.5	16.0	0.17982853	0.03173445	
82	25.60	0.003	1.38	2.2	16.0	0.17988025	0.03174357	
83	26.25	0.002	1.19	1.9	16.0	0.15564195	0.02746623	
84	26.61	0.002	1.09	1.7	15.9	0.14384146	0.02538379	
85	26.96	0.002	1.01	1.4	15.9	0.13303983	0.02347762	
86	26.85	0.002	1.03	1.1	15.9	0.13692498	0.02416323	
87	27.22	0.002	0.95	0.8	15.9	0.12594399	0.02222541	
88	28.10	0.002	0.77	0.6	15.8	0.10309973	0.01819407	
89	28.21	0.002	0.76	0.3	15.8	0.10050393	0.01773599	
90	28.28	0.001	0.74	0.0	15.8	0.09903152	0.01747615	