

RESOURCE MANAGEMENT AGENCY PLANNING DEPARTMENT

2037 W. Cleveland Avenue
Madera, CA 93637
(559) 675-7821
FAX (559) 675-6573
TDD (559) 675-8970
mc_planning@madera-county.com

Norman L. Allinder, AICP
Director *NLA*

PLANNING COMMISSION DATE: December 4, 2012

AGENDA ITEM: #2

CUP	#2012-024	Amend CUP #2010-014 to allow for equipment upgrades on existing cell tower
APN	#050-061-010	Applicant: AT&T Mobility
CEQA		Owner: American Towers, Inc.
		Exempt

REQUEST:

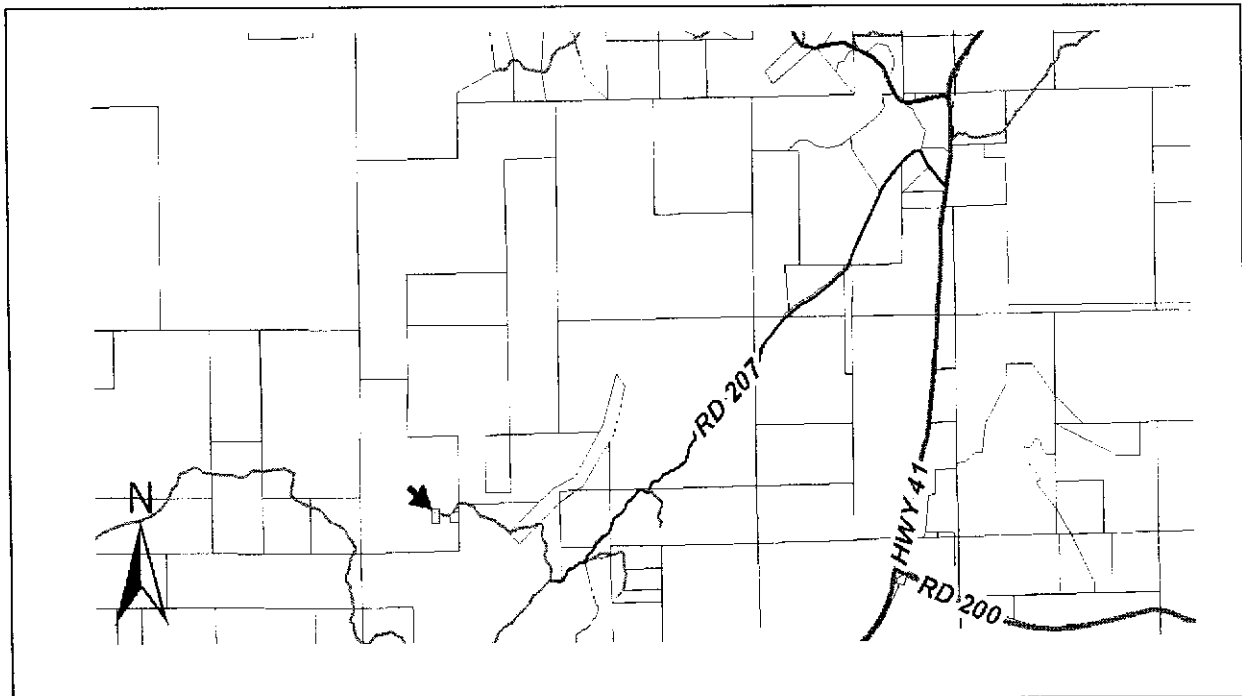
The applicant is requesting to amend Conditional Use Permit #201-014 to add three new four foot antennas to existing tower, add two remote radio units behind the new antennas, one surge protector, and one radio base station within an existing structure.

LOCATION:

The subject property is located on the west side of Road 207, approximately 2.9 mile southwest of the intersection of Highway 41 and Road 207 (no situs available), O'Neals

ENVIRONMENTAL ASSESSMENT:

Pursuant to Public Resources Code 21084, this project is exempt from CEQA under Section 15301(b) and (e).



RECOMMENDATION:

Staff recommends approval of Conditional Use Permit #2012-024 and the Categorical Exemption subject to conditions.

GENERAL PLAN DESIGNATION (Exhibit A):

SITE: AE (Agricultural Exclusive)

SURROUNDING: AE (Agricultural Exclusive)

O'NEALS AREA PLAN DESIGNATION (Exhibit A-2)

SITE: RCA (Resource Conservation Area); PL (Public Land)

SURROUNDING: RCA (Resource Conservation Area); PL (Public Land)

ZONING (Exhibit B):

SITE: POS (Public Open Space) District

SURROUNDING: ARF (Agricultural Rural Foothill); OS (Open Space); ARE-40 (Agricultural, Rural, Exclusive – 40 Acre) District

LAND USE:

SITE: Existing cell tower.

SURROUNDING: Vacant land

SIZE OF PROPERTY: 1.77 acres

ACCESS (Exhibit A): Access to the site is off of Road 207

BACKGROUND AND PRIOR ACTIONS:

Conditional Use Permit #2010-014 was approved in December, 2010 to allow for equipment upgrades.

PROJECT DESCRIPTION:

The applicant is requesting to amend Conditional Use Permit #2010-014 to add three new four foot antennas to existing tower, add two remote radio units behind the new antennas, one surge protector, and one radio base station within an existing structure.

ORDINANCES/POLICIES:

Section 18.04.121 of the Madera County Zoning Ordinance defines communication tower/wireless communications facility.

Section 18.52.010 of the Madera County Zoning Ordinance outlines the permitted uses within the POS (Public Open Space) District.

Section 18.92 of the Madera County Zoning Ordinance outlines the procedures for obtaining Conditional Use Permits.

Policy 1.1.2 of the Madera County Airport Land Use Compatibility Plan provides for the Madera County Airport Land Use Commission's planning area to encompass those lands, regardless of their location in the County, on which the uses could adversely affect the safety of flight in the County.

Policy 1.3.3(d) of the Madera County Airport Land Use Compatibility Plan requires ALUC review of any cell tower (antennas) being constructed or altered to a height of or over 150 feet in height.

Section 15301(b) and (e) of the California Environmental Quality Act allows for an exemption on projects which have been determined to not to have a significant effect on the environment as the work being done is on an existing facility designated as a public utilities facility and is not increasing the footprint of the facility.

ANALYSIS:

The applicant is requesting an amendment to Conditional Use Permit #2010-014 to allow for equipment upgrades on an existing cell tower located on the west side of Road 207, approximately 2.9 mile southwest of the intersection of Highway 41 and Road 207. Access of the facility is from Road 207. The applicant is requesting to add three new four foot antennas to existing tower, add two remote radio units behind the new antennas, one surge protector, and one radio base station within an existing structure. No increase in height or facility footprint is proposed.

Wireless providers are attempting to provide wireless communication services to a wider and wider area of the County. In this case, the facility will provide service to areas along Highway 41, the Indian Lakes and Yosemite Lakes Park Subdivisions, and surrounding residential areas. The proposed expansion of the facility is also part of a larger network of sites that has been designed to provide continuous wireless coverage along Highway 41.

A microwave tower has been located here since 1980, prior to the requirement for a Conditional Use Permit. Currently, the zoning for this parcel, which is Public Open Space (POS), requires a Conditional Use Permit for communication towers and wireless communication towers. The Resource Conservation Area (RCA) and Public Land (PL) designations under the O'Neals Area Plan allows for a range of uses including public open spaces, rural residential and commercial uses. The Agricultural Exclusive (AE) general plan designation allows for public and quasi-public uses. No conflicts in land use are seen with this application.

The parcel is located off of a private road accessed via Road 207, which is a narrow road leading off of Highway 41. Adjacent parcels are zoned agricultural and the area is sparsely populated. The nearest residence is just over ¼ of a mile north-east of the site. The terrain is mostly hilly in nature. The identified parcel appears to be located in Flood Zone "X" as shown on the latest Flood Insurance Rate Maps (FIRM), an area determined to be outside the 500-year flood plain. A parcel identified as not being located within a Special Flood Hazard area may be subject to localized drainage problems that are site specific and not included in this flood zone determination.

As there is no increase in height of the facility, there is no anticipated change in the visual character of the surroundings. The height of the tower, at approximately 60 feet, does not fall under the Airport Land Use Commission purview pursuant to ALUC Policy 1.3.3(d). There will be no increase in footprint either.

There are cell towers located along the Highway 41 corridor. Two towers are located in and adjacent to the entrance of Yosemite Lakes Park, 3.73 and 3.62 miles to the north-west and north-east respectively of the subject site. A tower is also located to the south along Road 200 approximately 7.66 miles from the subject site.

Staff has routed this proposed project to the Aeronautics Division of the California Department of Transportation for comment on the project. As this project is to add or replace equipment on an already existing tower, no other agencies were routed to for comment as there would be no further impact to the area.

Public Resources Code Section 21084 requires the CEQA Guidelines to include a listing of classes of projects which have been determined not to have a significant effect on the environment and which shall, therefore, be exempt from the provisions of CEQA. Under Section 15301(b) and (e), this project is exempt from a CEQA evaluation as the work is being conducted on an existing public utility facility. The applicant is replacing some antennas and putting minimal equipment into an existing portion of the facility. There will be no increase in the footprint of the site, nor height increase of the tower or any grading to accommodate additional equipment. Operations of the tower will not be changed as a result of this project.

FINDINGS OF FACT:

The following findings of fact must be made by the Planning Commission to grant approval of this conditional use permit application. Staff recommends that the Planning Commission concur with the following in light of the proposed conditions of approval.

1. *The proposed project does not violate the spirit or intent of the zoning ordinance in that the proposed upgrades does not violate the spirit or intent of the zoning ordinance and is allowed under Section 18.52.010(C) of the zoning ordinance with a Conditional Use Permit.*
2. *The proposed project is not contrary to the public health, safety, or general welfare in that it provides a needed E-911 coverage in this area, which promotes the welfare and safety of the general public. It also provides coverage for those persons traveling to this area who do not have access to landlines.*
3. *The proposed project is not hazardous, harmful, noxious, offensive or a nuisance because of noise, dust, smoke, odor, glare or similar factors as the proposed modifications of the existing facility will not generate any environmental, hazardous, harmful, noxious, offensive effects related to noise, dust, smoke, odor, glare or similar factors. The site is unmanned and will be visited by a technician for maintenance bi-monthly.*
4. *The proposed project will not for any reason cause a substantial, adverse effect upon the property values and general desirability of the surrounding properties. The proposed project entails adding and replacing like-kind antennas on the existing tower at the current elevation. No additional height will be added. Related equipment such as remote electrical tilt and tower mounted amplifiers will be added behind or underneath the antennas and will not have a substantial impact on the appearance of the existing tower or layout of the existing compound.*

WILLIAMSON ACT:

The property is not subject to a Williamson Act contract.

GENERAL PLAN CONSISTENCY:

The current general plan designates the site as AE (Rural Residential). The property is zoned POS (Public Open Space District). The zoning and general plan designations are consistent with each other.

RECOMMENDATION:

The analysis provided in this report supports approval of this Conditional Use Permit and associated Categorical Exemption from CEQA.

CONDITIONS:

Engineering Department

1. None

Environmental Health Department

1. None.

Fire Department (Exhibit I)

1. At the time of application for a Building Permit, a more in-depth plan review of the proposed project's compliance with all current fire and life safety codes will be conducted by the Madera County Fire Marshal. (CFC, Section 105.2)

Planning Department

1. Facility to operate in accordance with submitted Operational Statement and plans unless otherwise modified by conditions of approval.
2. Lighting associated with this project is to be hooded and directed downward and away from adjoining parcels.
3. The proposed design and operations of this project shall not create a situation that will be in conflict with the previous conditional use permit.
4. The tower antennas shall be treated or coated in such a manner as to make it non-reflective.
5. Construction and operation of the facility must meet FCC standards for radio frequency operations within the vicinity.
6. If not required by the Federal Aviation Administration for safety purposes, the tower shall not be lighted. If lighting is used, white (preferable) or red strobe lights at the minimum number, intensity, and flashes per minute shall be used.
7. The applicant shall be required to maintain the facility at an acceptable level as determined by the Planning Department regarding visual/aesthetic components of the facility until such time as the tower is removed.
8. Driveway, circulation, access and pad area to be kept in a dust free environment.
9. Conditional Use Permit #2010-014 and its' conditions of approval remain in effect.

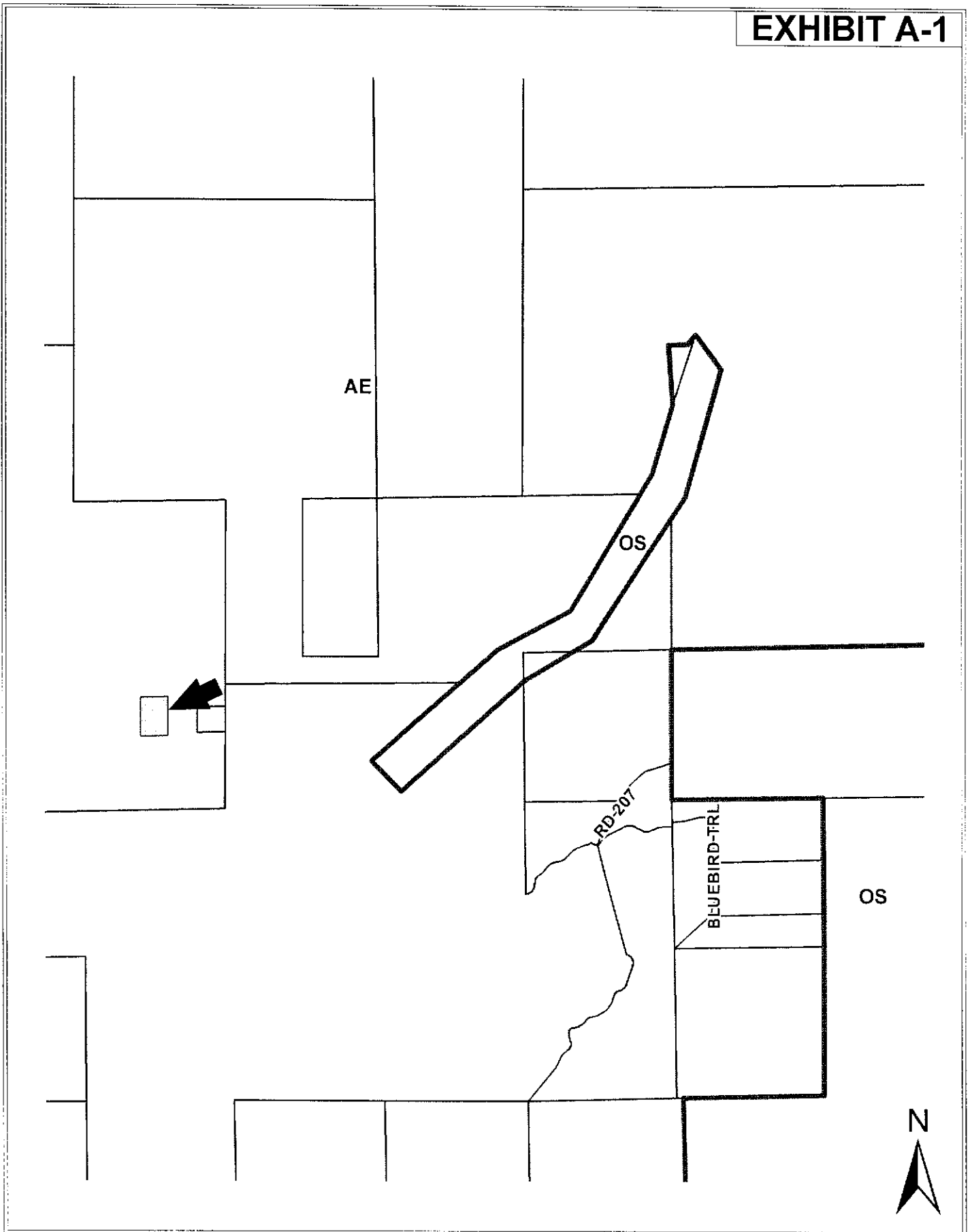
Road Department (Exhibit J)

1. None

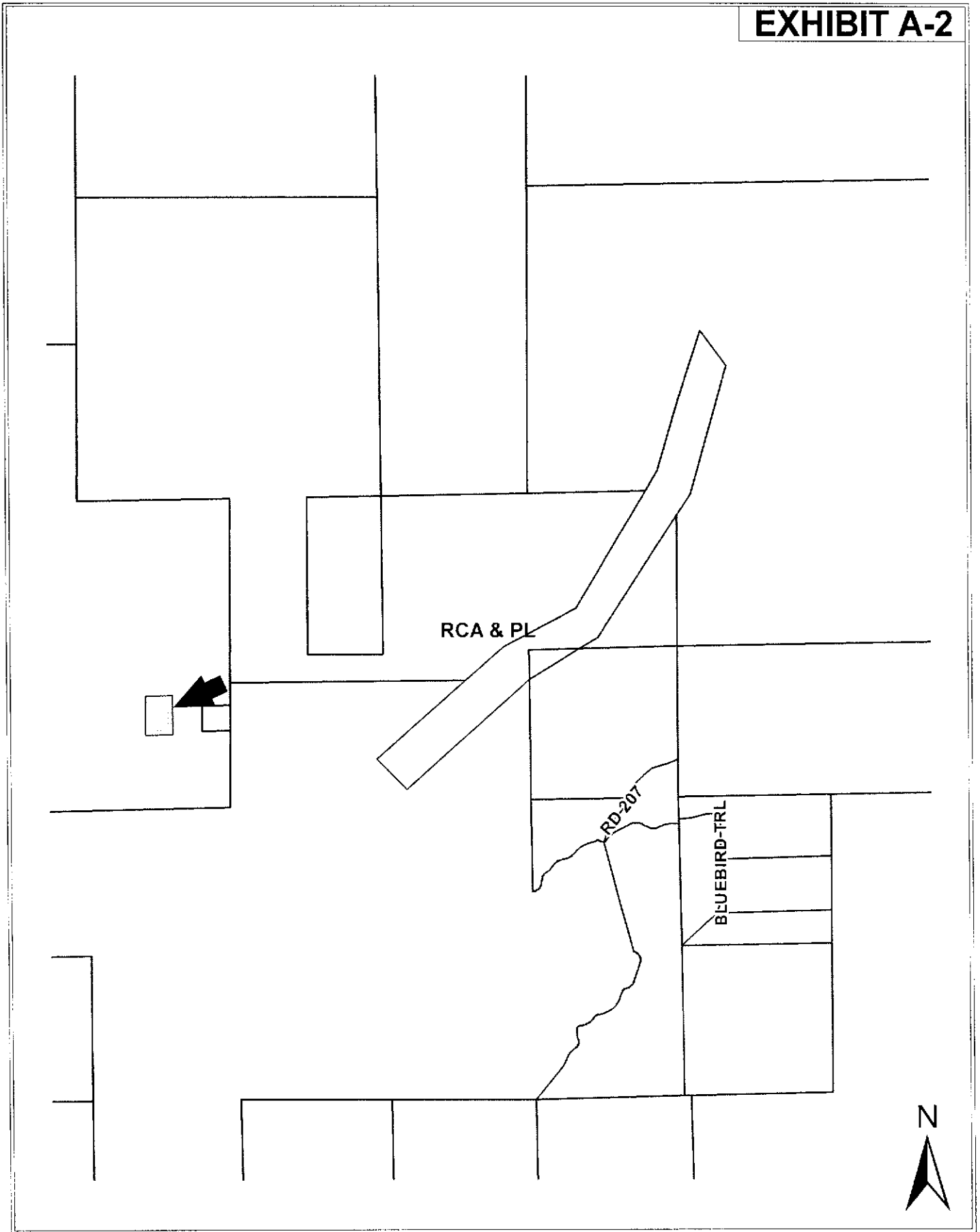
ATTACHMENTS:

1. Exhibit A-1, General Plan Map
2. Exhibit A-2, O'Neals Area Plan Map
3. Exhibit B, Zoning Map
4. Exhibit C, Assessor's Map
5. Exhibit D Site Plan Map
6. Exhibit E, Aerial Map

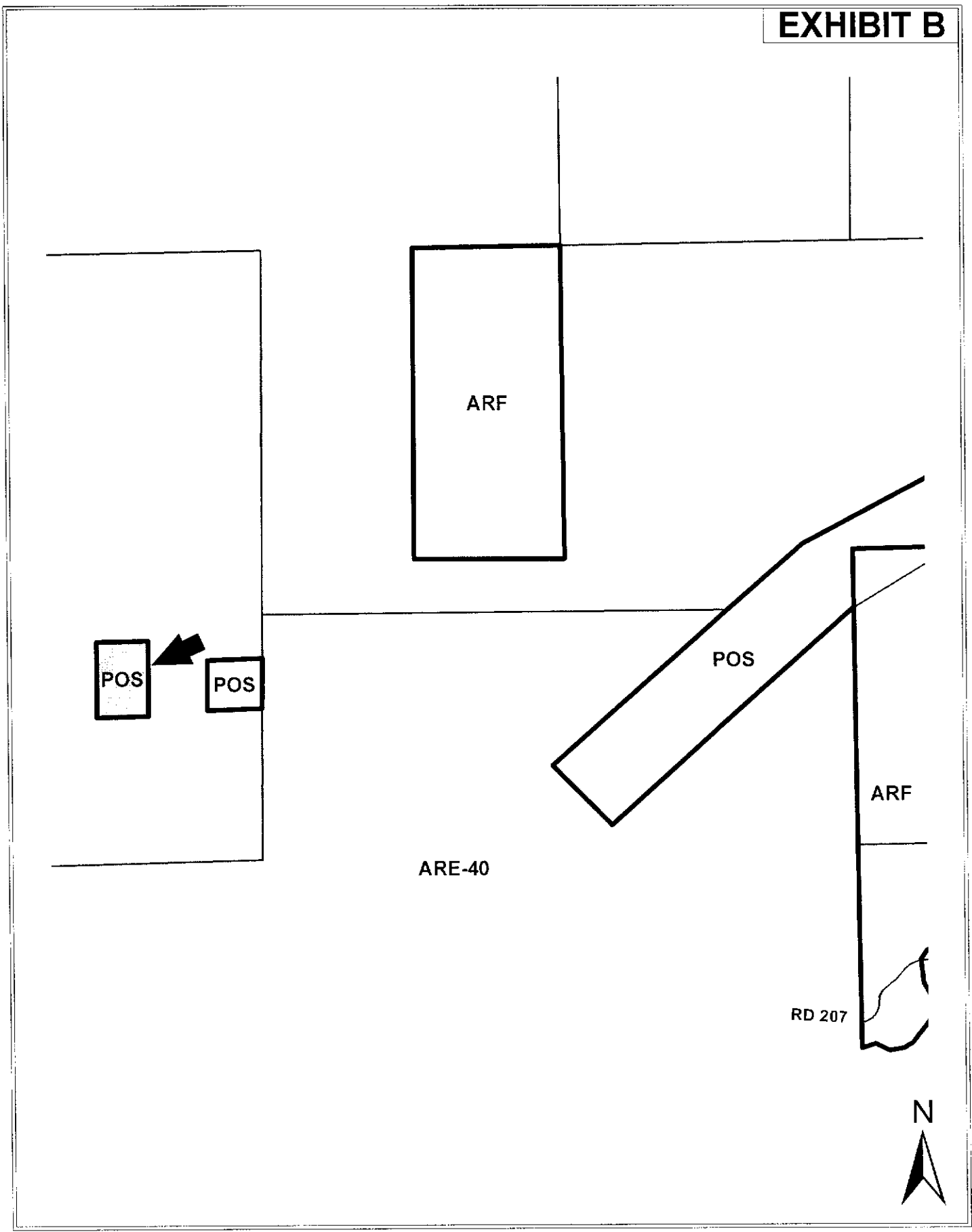
7. Exhibit F, Topographical Map
8. Exhibit G, Operational Statement
9. Exhibit G-1, Supplemental Operational Statement
10. Exhibit H, Cell tower locations in Madera County
11. Exhibit I, Fire Department Comments
12. Exhibit J, Roads Department Comments
13. Exhibit K, Conditions of Approval monitoring



GENERAL PLAN MAP



O'NEALS AREA PLAN



ZONING MAP

10090592 (CNU2322, MD013) RED TOP OUTLOOK



LTE
SELF-SUPPORT TOWER (INDOOR)
HIGHWAY 41,
MADERA, CA 93638

AMERICAN TOWER

ENGINEERING

2010 CALIFORNIA BUILDING CODE
2010 CALIFORNIA TITLE 24
2010 CALIFORNIA MECHANICAL CODE
2009 INTERNATIONAL BUILDING CODE
2008 NATIONAL ELECTRICAL CODE
1-A-222-G OR LATEST EDITION

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE FOLLOWING:

- RELOCATE EXISTING GSM ANTENNAS
- INSTALL (3) LTE ANTENNAS
- INSTALL (5) PDU'S
- INSTALL (1) SURGE PROTECTION UNIT

SITE INFORMATION

PROPERTY OWNER: AMERICAN TOWER
ADDRESS: 2171 CAMPUS DRIVE, SUITE 300
IRVINE, CA 92612

TOWER OWNER: AMERICAN TOWER

SITE CONTACT: SHORI Z SHURE WIRELESS, LLC
CARL JONES 916-268-2275
CHRIS HATCH 916-467-7684

COUNTY: MADERA

LATITUDE (NAD 83): 37° 1' 42" 827" N

LONGITUDE (NAD 83): 119° 46' 44.594" W

ELEVATION (AMSL): 1,805'

ZONING JURISDICTION: COUNTY OF MADERA

PARCEL #: 050-061-010

OCCUPANCY GROUP: II

CONSTRUCTION TYPE: TN

POWER COMPANY: PG&E (800) 743-5000

TELEPHONE COMPANY: AT&T

SITE ACQUISITION MANAGER: ROD WESTPHAL 248-705-5023

CONSTRUCTION MANAGER: JASON PADALAN (519) 259-8653

PROJECT MANAGER: MICHAEL DECORODVA 562-226-4233

HE FINDER: ALI QAZI 925-408-8587

LEASE AREA: 50'-0" x 34'-8"

RFDS VER 10.1 DATE: 08/31/12

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE, NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR SITE MODIFICATIONS.

B&V ENGINEERING _____ DATE: _____
B&V CONSTRUCTION _____ DATE: _____
B&V SITE ACO _____ DATE: _____
AT&T MANAGER _____ DATE: _____
SITE OWNER _____ DATE: _____



5555 EAST OLIVE
FRESNO, CA 93727



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000



ALLPRO
CONSULTING GROUP, INC.

9221 LYNDON B JOHNSON FREEWAY
SUITE 200 DALLAS TX 75248
PHONE: 972-231-8899
FAX: 972-231-8876
WWW.ALLPROCG.COM
ACGI# 12-5922

REV	DATE	DESCRIPTION
3	10/12/12	100% CD #C
1	10/02/12	50% CD #W
0	09/02/12	50% CD #R



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

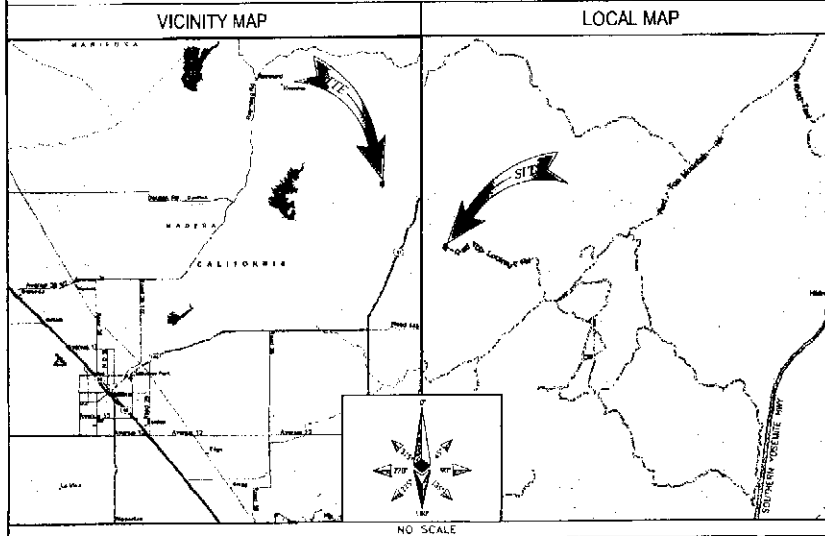
10090592 (CNU2322)
RED TOP OUTLOOK
HIGHWAY 41
MADERA, CA 93638
SELF-SUPPORT TOWER

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

SITE PLAN

LOCATION MAPS



DRAWING INDEX

SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
C-1	SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	EQUIPMENT LAYOUT
C-4	ANTENNA LAYOUTS
C-5	SITE ELEVATION
C-6	EQUIPMENT DETAILS
C-7	EQUIPMENT DETAILS
RF-1	RF CONFIGURATION
E-1	ELECTRICAL DC ONE-LINE DIAGRAM
G-1	EQUIPMENT GROUNDING PLAN
G-2	GROUNDING DETAILS
GN-1	GENERAL CONSTRUCTION NOTES
GN-2	GENERAL ELECTRICAL NOTES

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
IF USING 11"x17" PLOT, DRAWINGS WILL BE HALF SCALE.



UNDERGROUND
SERVICE ALERT OF
NORTHERN CALIFORNIA
800-277-2660

18 HOURS BEFORE YOU DIG

CONTACT INFORMATION

ENGINEER: BLACK & VEATCH CORPORATION
5118 E CLINTON WAY
SUITE 102
FRESNO, CA 93727

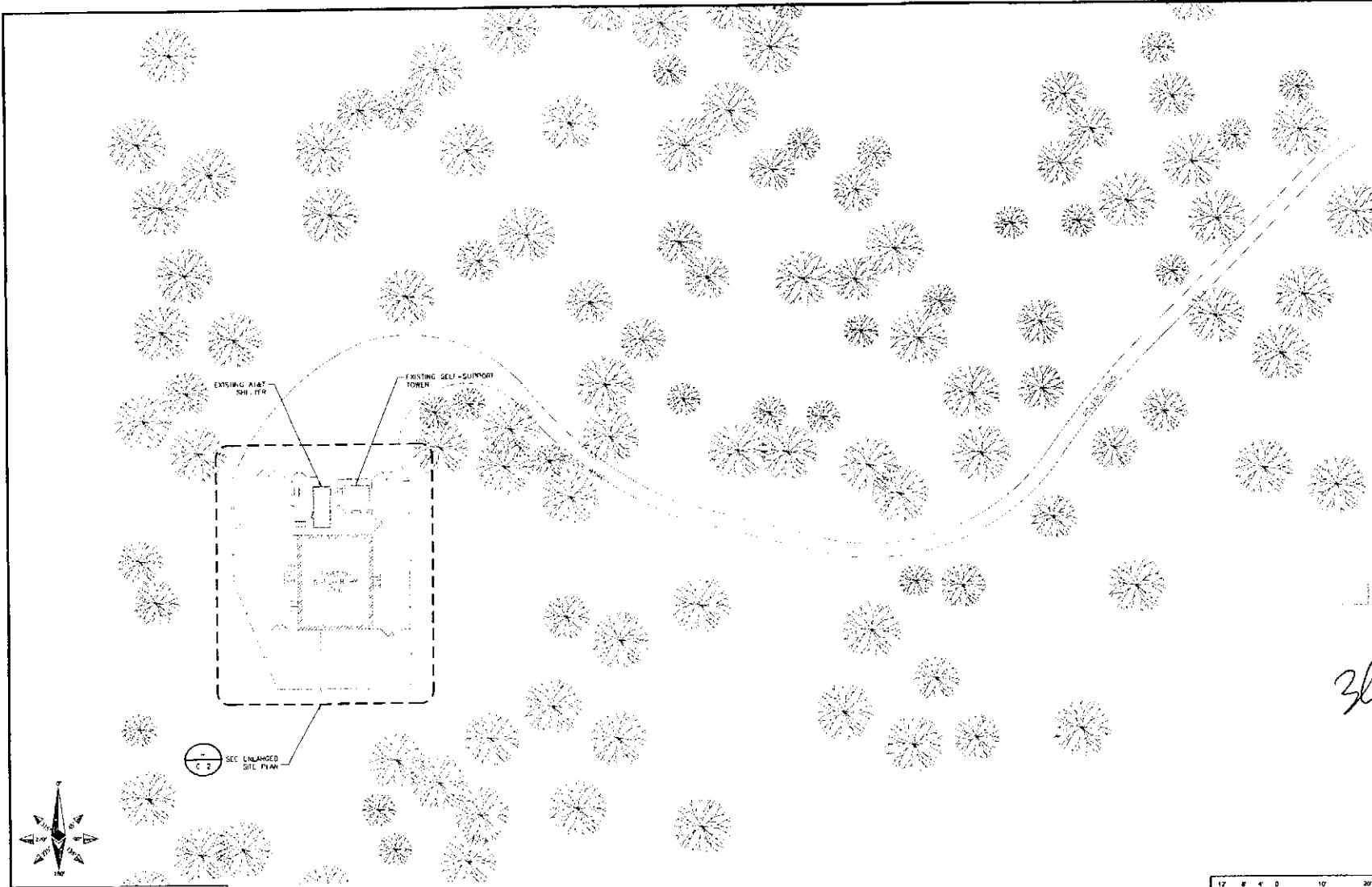
CONTACT: JASON PADALAN
519 259-8653

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T OFFICE:

DEPART 5555 E OLIVE AVE, FRESNO, CA 93727 ON E OLIVE AVE (WEST) TURN LEFT (SOUTH) ONTO N CHESTNUT AVE TAKE RAMP (RIGHT) ONTO SR-180 [SIERRA-KINGS CANYON FWY] TAKE RAMP (RIGHT) ONTO SR-41 [YOSEMITE FWY] TURN LEFT (WEST) ONTO LOCAL ROAD(S) BEAR RIGHT (NORTH) ONTO LOCAL ROAD(S) TURN LEFT (SOUTH) ONTO RED TOP MOUNTAIN RD [ROAD 207] BEAR RIGHT (WEST) ONTO LOCAL ROAD(S) ROAD NAME CHANGES TO RED TOP LOOKOUT RD [ROAD 8088] TO SITE

EXHIBIT D



5805 EAST OLIVE
FRESNO, CA 93727



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000



ALLPRO
CONSULTING GROUP, INC.
8231 LYNDON B JOHNSON FREEWAY
SUITE 204 DALLAS, TX 75243
PHONE: 972-231-8883
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WWW.ALLPROCGI.COM
ACC# 12-5922

REV	DATE	DESCRIPTION
2	10/10/13	100% CD W/C
1	10/05/12	80% CD W/R
0	09/05/12	50% CD W/R

REGISTERED PROFESSIONAL ENGINEER
SHIJIANG ZHANG
C73420
Exp. 12/31/12
CIVIL

IF IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

10090592 (CNU2322)
RED TOP OUTLOOK
HIGHWAY 41
MADERA, CA 93638
SELF SUPPORT TOWER

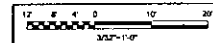
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SITE PLAN

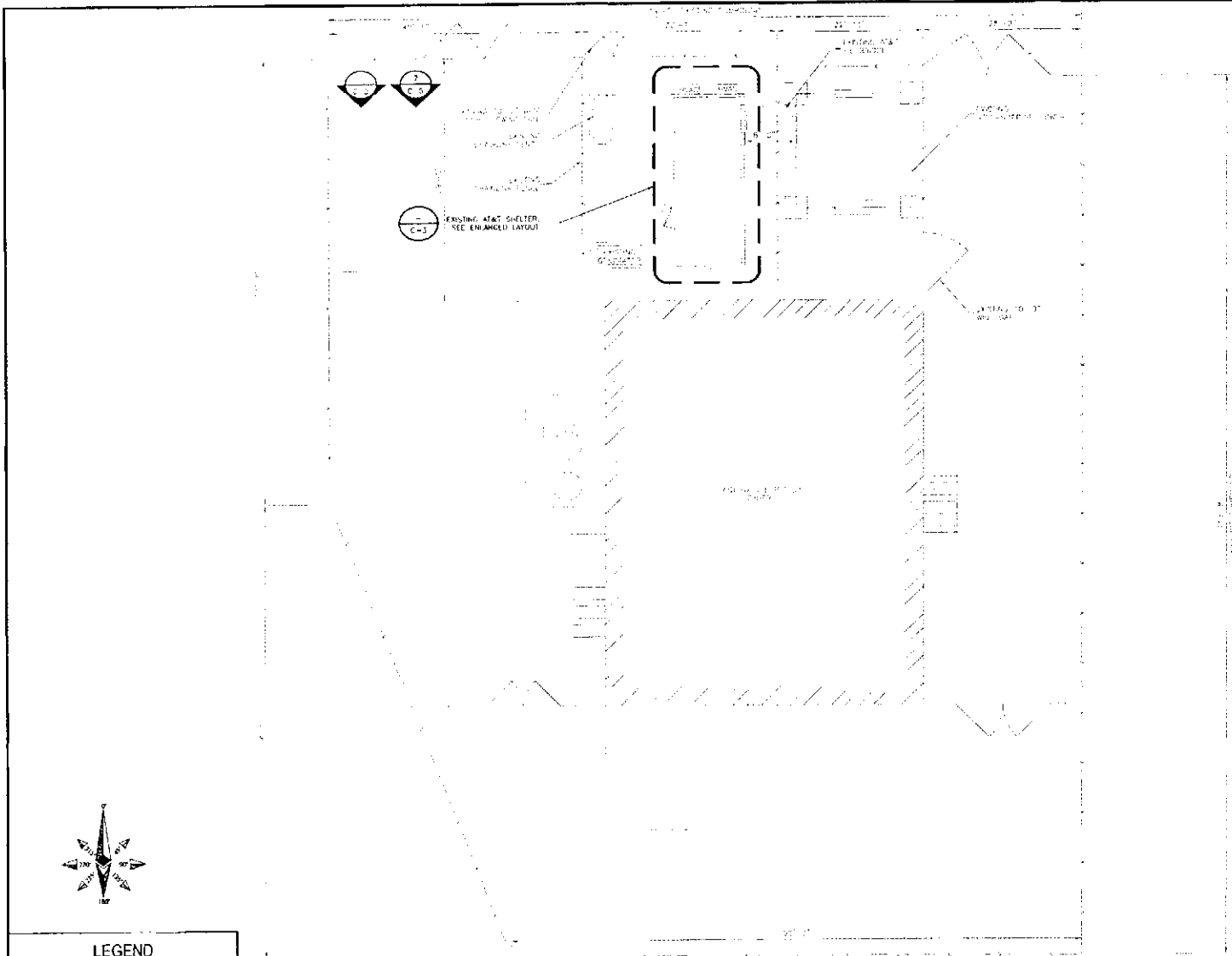
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C-1

LEGEND


CHAINLINK FENCE	-----	WOOD/WROUGHT IRON FENCE	—○—○—○—○—
LEASE AREA	-----	WALL STRUCTURE	▨▨▨▨▨▨▨▨▨▨
W/ BRIDGE	XXXXXX		

NOTES
1. PROXIMITY LINES ARE APPROXIMATIONS ONLY
2. ANTENNAS & MOUNTS OMITTED FOR CLARITY.






5555 EAST OLIVE
FRESNO, CA 93727




10950 GRANDVIEW DRIVE
OVLAND PARK, KANSAS 66210
(913) 458-2000



CONSULTING GROUP, INC.
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SUITE 306 DALLAS, TX 75243
PHONE: 972-211-8893
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WWW.ALLPROCONS.COM
ACQ# 12-5922

REV	DATE	DESCRIPTION
2	10/14/12	100% CD #FC
1	10/09/12	65% CD #FC
0	08/02/12	50% CD #FC



REGISTERED PROFESSIONAL ENGINEER
SHIOIANG ZHANG
C73420
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

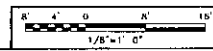
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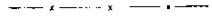


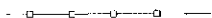

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10090592 (CNU2322)
RED TOP OUTLOOK
HIGHWAY 41
MADERA, CA 93638
SELF-SUPPORT TOWER

SHEET TITLE
ENLARGED SITE PLAN

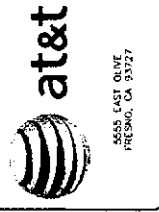
SHEET NUMBER
C-2



LEGEND	
CHAINLINK FENCE	
LEASE AREA	
ICE BRICKS	
WIDE/WHOLE LIGHT IRON FENCE	
WALL STRUCTURE	

NOTES

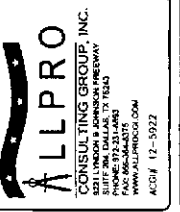
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED LTE GPS ANTENNA AND TRANSMITTING ANTENNAS.
- CONTRACTOR SHALL FIELD VERIFY EXISTING HWAC UNITS. IF LESS THAN A 5 TON RATING, CONTRACTOR SHALL REMOVE EXISTING UNITS AND REPLACE WITH A 5 TON RATED UNIT, MATCHING EXISTING MANUFACTURER.



5655 EAST OLIVE
FRESNO, CA 93727

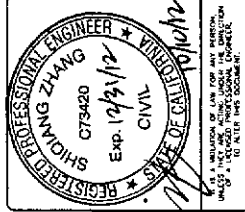


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SUITE 200 DALLAS, TX 75243
PHONE: 972-331-6485
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ACD# 12-1922

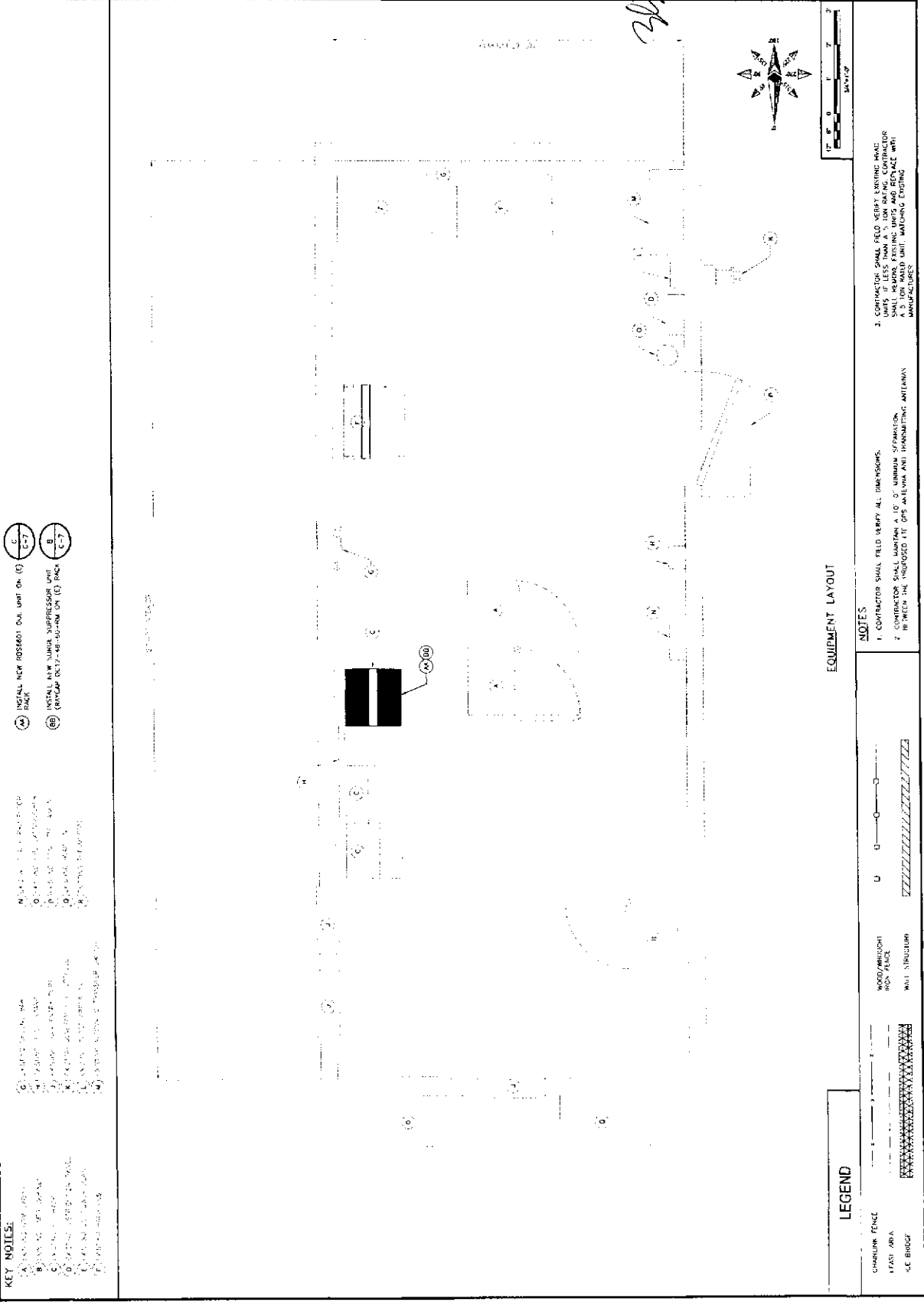
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0	02/07/12	ISSUE FOR PER



10090592 (CNU2322)
RED TOP OUTLOOK
HIGHWAY 93638
MADERA, CA 93638
SELF-SUPPORT TOWER

EQUIPMENT LAYOUT

SHEET NUMBER
C-3



- (A) INSTALL NEW 1005601 Out Unit On (C) RACK
- (B) INSTALL NEW SURGE SUPPRESSOR UNIT (E) RACK
- (C) (E) RACK PLS17-48-40-DM ON (E) RACK

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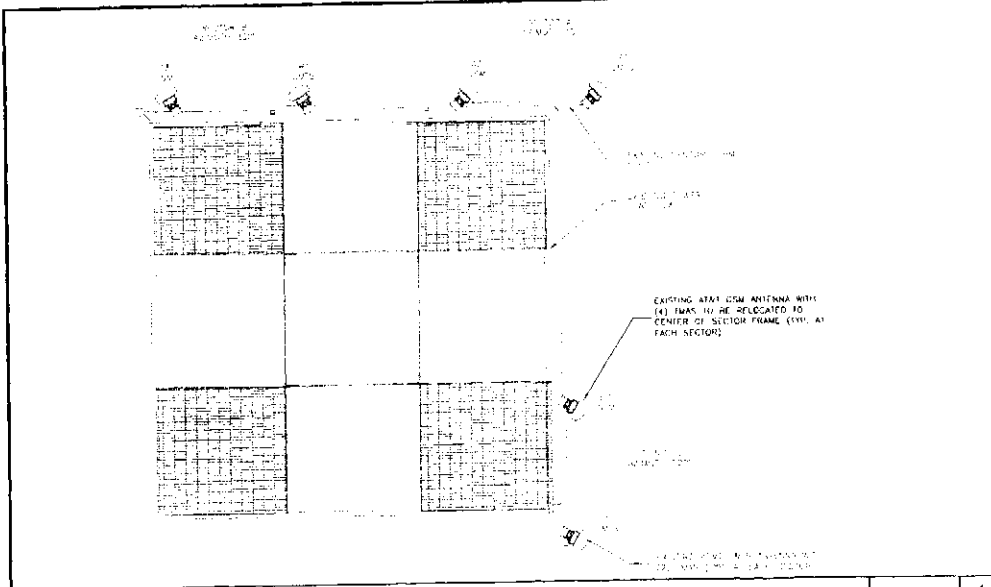
EQUIPMENT LAYOUT

NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL MAINTAIN A 10' CLEARANCE BETWEEN THE PROPOSED LTE OPS ANTENNA AND TRANSMITTING ANTENNA.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING WAC SHALL MARK EXISTING UNITS AND REMOVE WITH A 3' OR WIDER UNIT MATCHING EXISTING MANUFACTURER.

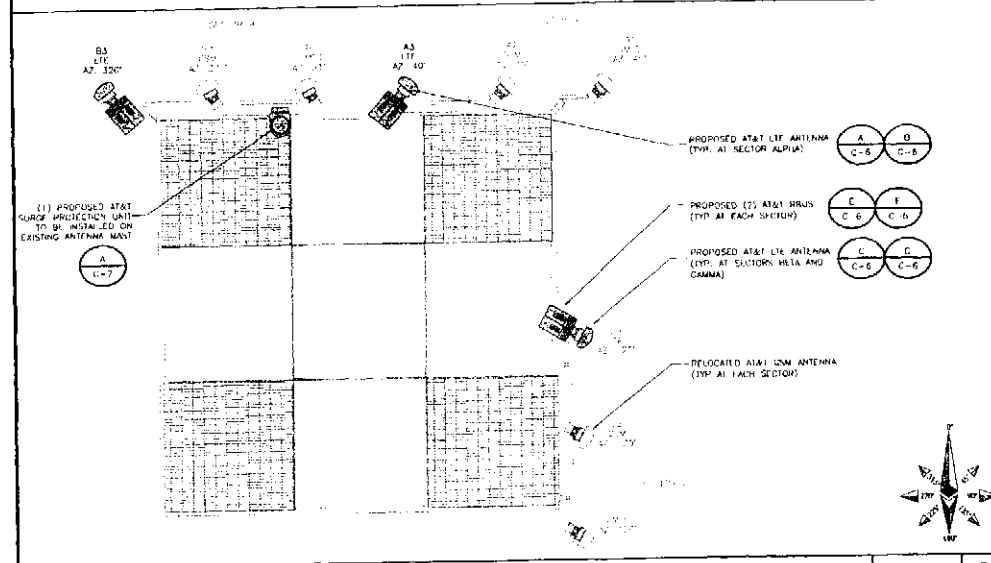
LEGEND

- CHURCH FENCE
- POST AND RAIL FENCE
- WALL STRUCTURE
- WOOD/WHOLESTOCK FENCE
- WALL STRUCTURE



EXISTING ANTENNA LAYOUT

NO SCALE 1



PROPOSED ANTENNA LAYOUT

NO SCALE 2

CONTRACTOR TO REFER TO LATEST PASSING STRUCTURAL ANALYSIS PERFORMED ON THE EXISTING TOWER PRIOR TO CONSTRUCTION

NOTES TO CONTRACTOR

- CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
- CABLE LENGTHS WERE DETERMINED BASED ON A VISUAL INSPECTION DURING SITE WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
- CONTRACTOR TO USE ROSENBERGER FIBER LINE HANGER COMPONENTS (OR ENGINEER APPROVED EQUIV.)

OPTIMUM ANTENNA AND TRANSMISSION CABLE REQUIREMENTS (VERIFY WITH CURRENT RFDS)

SECTOR	TECHNOLOGY	ANTENNA MODEL		ANTENNA AZIMUTH		RAD CENTER		TRANSMISSION CABLE	
		EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	LENGTH	PART NUMBER
ALPHA SECTOR	A1	UMTS	POWERMAX P45-10-31H-05	150°	320°	75'	75'	90'	218' AWG
	A2	GSM	POWERMAX P45-10-31H-05	150°	320°	75'	75'	90'	218' AWG
	A3	LTE	POWERMAX P45-10-31H-05	150°	320°	75'	75'	60'	FIBER
BETA SECTOR	B1	UMTS	POWERMAX P45-10-31H-05	150°	320°	75'	75'	90'	218' AWG
	B2	GSM	POWERMAX P45-10-31H-05	150°	320°	75'	75'	90'	218' AWG
	B3	LTE	KATHREIN R00-10764	150°	320°	75'	75'	60'	FIBER
GAMMA SECTOR	C1	UMTS	POWERMAX P45-10-31H-05	150°	320°	75'	75'	90'	218' AWG
	C2	GSM	POWERMAX P45-10-31H-05	150°	320°	75'	75'	90'	218' AWG
	C3	LTE	KATHREIN R00-10764	150°	320°	75'	75'	60'	FIBER

ANTENNA & COAX SCHEDULE

SECTOR	RRU TYPE	RRU LOCATION (DISTANCE FROM ANTENNA)	MINIMUM CLEARANCES			DC CABLE		
			ABOVE	BELOW	% DEC.	QTY	LENGTH	AWG
			FT	FT				
ALPHA SECTOR	ERICSSON RRU-S-11 (700 MHz)	< 3'-0"	16"	8"	0"	1	115'	B
	ERICSSON RRU-S-11 (AWS)	< 3'-0"	16"	8"	0"	1	115'	B
BETA SECTOR	ERICSSON RRU-S-11 (700 MHz)	< 3'-0"	16"	8"	0"	1	125'	H
	ERICSSON RRU-S-11 (AWS)	< 3'-0"	16"	8"	0"	1	125'	H
GAMMA SECTOR	ERICSSON RRU-S-11 (700 MHz)	< 3'-0"	16"	8"	0"	1	135'	B
	ERICSSON RRU-S-11 (AWS)	< 3'-0"	16"	8"	0"	1	135'	B

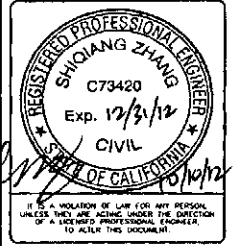
SURGE SUPPRESSION SYSTEM

MANUFACTURER	PART NUMBER	QTY	LOCATION
KAYCAP	DK6-48-60-10-BF	1	MOUNTED ON EXISTING ANTENNA MAST
KAYCAP	DC12-48-60-RM	1	MOUNTED INSIDE PROPOSED LTE EQUIPMENT RACK

EQUIPMENT SCHEDULES



REV	DATE	DESCRIPTION
1	10/05/12	100% CD #1
2	10/05/12	90% CD #1
3	08/05/12	90% CD #1



10090582 (CNU2322)
RED TOP OUTLOOK
HIGHWAY 41
MADERA, CA 93638
SELF-SUPPORT TOWER

SHEET TITLE
ANTENNA LAYOUT

SHEET NUMBER
C-4



5555 EAST GULF,
FRESNO, CA 93727

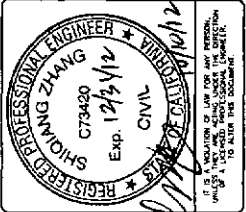


BLACK & VEATCH
10953 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 581-2000



ALLPRO
CONSULTING GROUP, INC.
SUITE 200, DALLAS, TEXAS 75243
PHONE 972-331-4888
WWW.ALLPRO2000.COM
ACQ# 12-5922

REV	DATE	DESCRIPTION
2	07/27/12	ISSUE FOR PERMITS
1	06/29/12	REVISED PERMITS
0	07/26/12	ISSUE FOR PERMITS



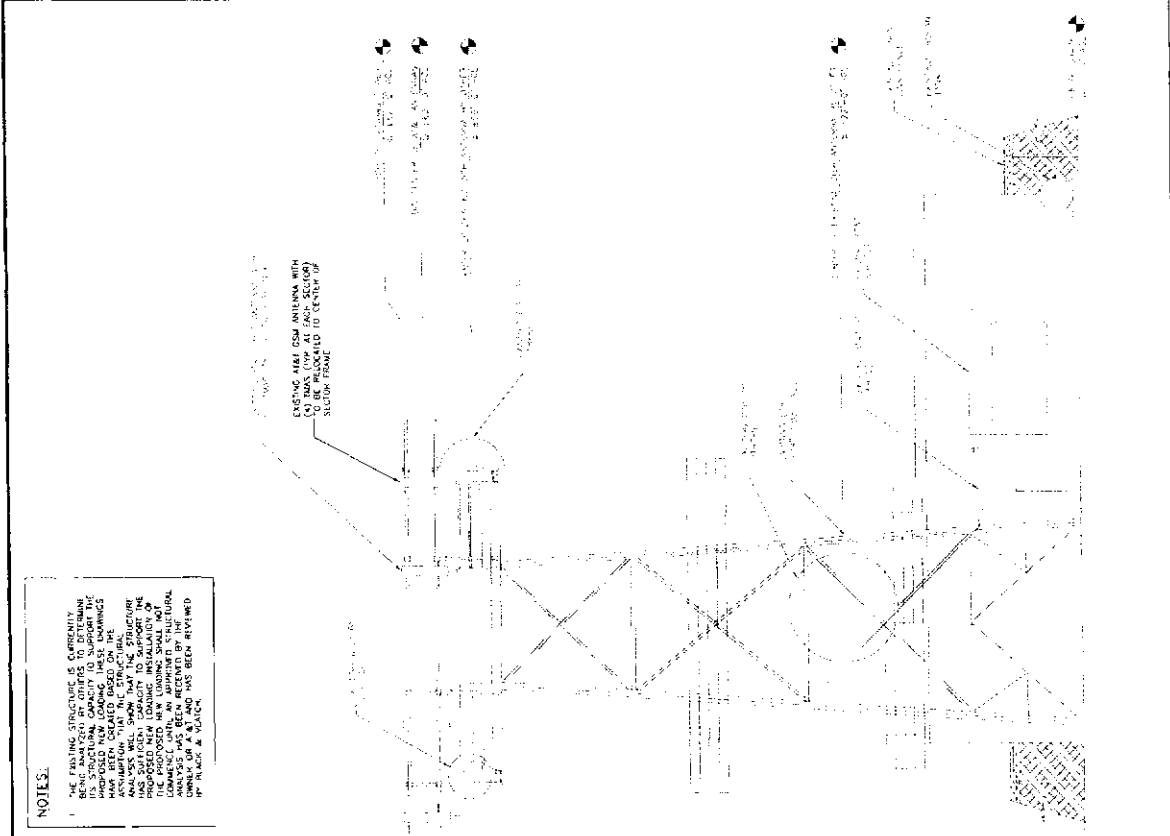
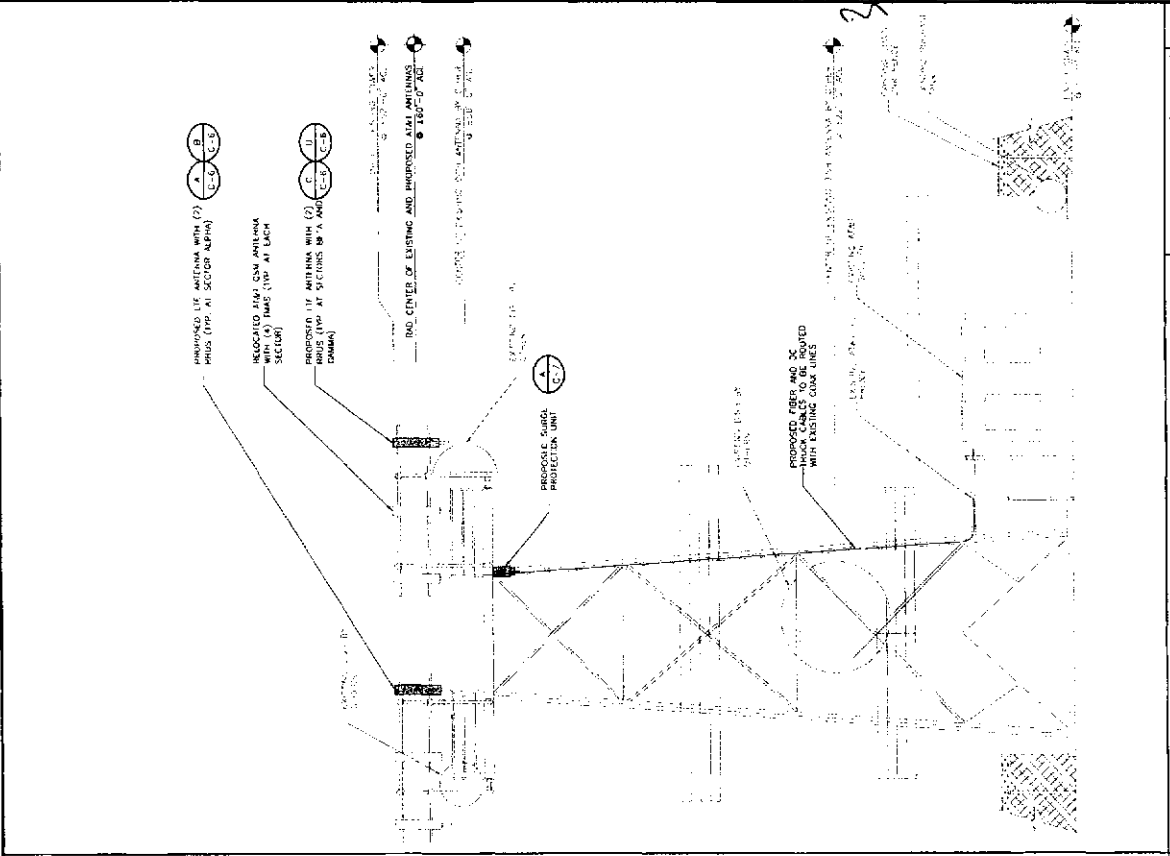
10090592 (CNU2322)
RED TOP OUTLOOK
HIGHWAY 41
MADERA, CA 93638
SELF-SUPPORT TOWER


SHEET TITLE
SITE ELEVATION

SHEET NUMBER
C-5


NOTES:

1. THE EXISTING STRUCTURE IS CURRENTLY NOT DESIGNED TO SUPPORT THE PROPOSED NEW LOADING PER THE ASSUMPTION THAT THE STRUCTURE HAS SUFFICIENT CAPACITY TO SUPPORT THE PROPOSED NEW LOADING. INSTALLATION OF COMPOSITE DECKING AND APPROXIMATE STRUCTURAL CONNECTIONS AT THE ANTENNA SUPPORTS BY BLACK & VEATCH.







5555 EAST OVIHE
FRESNO, CA 93727



10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-7000



10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
PHONE: 972-331-8880
WWW.ALLPRO.COM
ACT# 12-1922

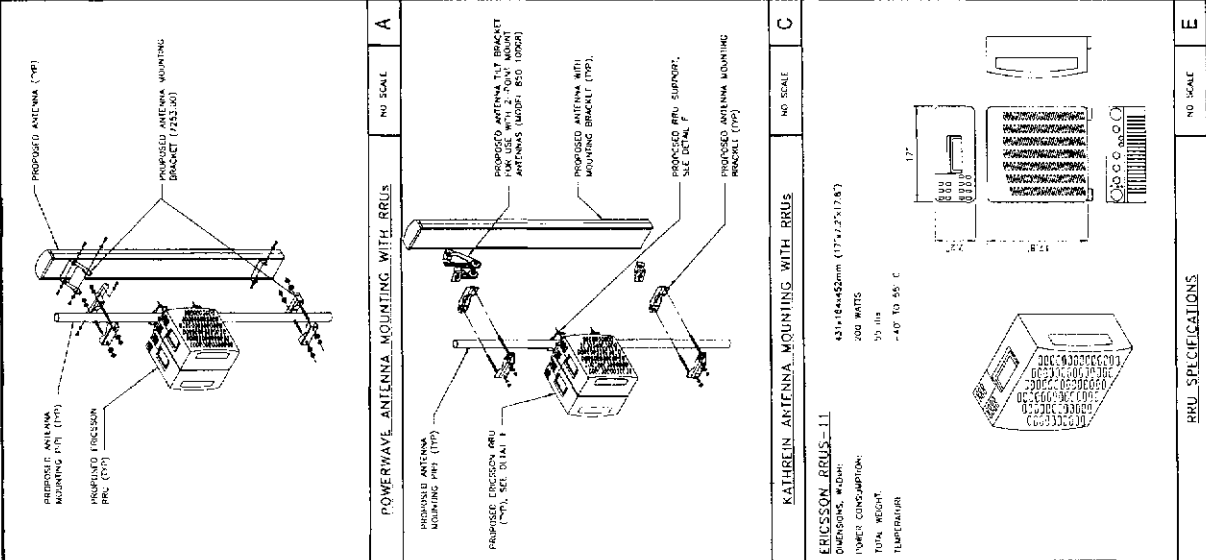
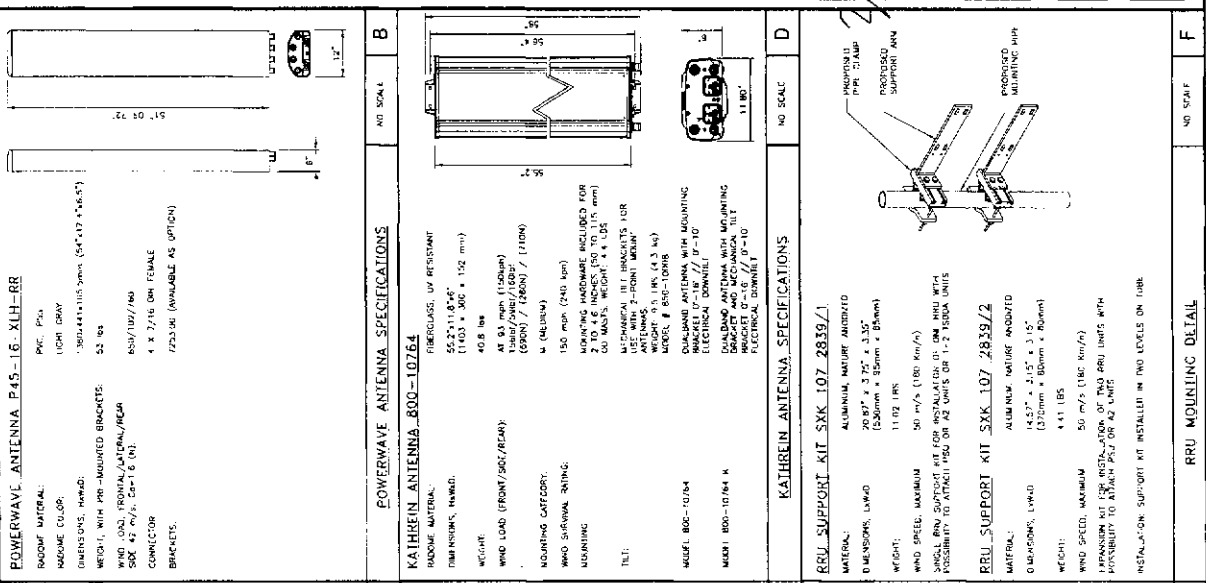


REGISTERED PROFESSIONAL ENGINEER
SHANG ZHANG
CIVIL
Exp. 12/13/12
C79420

10090592 (CNU2322)
RED TOP OUTLOOK
HIGHWAY 41
MADERA, CA 95638
SELF-SUPPORT TOWER

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
C-6



DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT AMERICAN STANDARDS 222 ON ANTENNA SUPPORTS.

LOCAL CODES: LOCAL CODES SHALL BE OBSERVED IN ALL JURISDICTIONS IN ACCORDANCE WITH ASTM A153 "ZINC COATED (GALVANIZED) COATED STEEL SHEET PILING AND SHIELDING PRODUCTS (FACTORY APPLIED OVERLAP)".

ANCHORS AND FASTENERS: ALL ANCHORS AND FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM A153 "ZINC COATED (GALVANIZED) COATED STEEL SHEET PILING AND SHIELDING PRODUCTS (FACTORY APPLIED OVERLAP)".

UNGRADED SURFACES: UNGRADED SURFACES SHALL BE REINFORCED WITH REINFORCING BARS AND SHALL BE TYPICAL TO MANUFACTURER'S RECOMMENDATIONS.

ANTENNA MOUNTING: ANTENNA MOUNTING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ANTENNA MOUNTING NOTES:

1. ALL OF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
2. ALL CONNECTIONS SHALL BE MADE FROM THE BOTTOM OF THE ANTENNA.
3. ALL CONNECTIONS SHALL BE MADE FROM THE BOTTOM OF THE ANTENNA.
4. ALL CONNECTIONS SHALL BE MADE FROM THE BOTTOM OF THE ANTENNA.
5. ALL CONNECTIONS SHALL BE MADE FROM THE BOTTOM OF THE ANTENNA.
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8. ALL CONNECTIONS SHALL BE MADE FROM THE BOTTOM OF THE ANTENNA.
9. ALL CONNECTIONS SHALL BE MADE FROM THE BOTTOM OF THE ANTENNA.
10. ALL CONNECTIONS SHALL BE MADE FROM THE BOTTOM OF THE ANTENNA.
11. ALL CONNECTIONS SHALL BE MADE FROM THE BOTTOM OF THE ANTENNA.
12. ALL CONNECTIONS SHALL BE MADE FROM THE BOTTOM OF THE ANTENNA.

TORQUE REQUIREMENTS

1. THE TORQUE REQUIREMENTS SHALL BE AS FOLLOWS:

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2. THE TORQUE REQUIREMENTS SHALL BE AS FOLLOWS:
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8. THE TORQUE REQUIREMENTS SHALL BE AS FOLLOWS:
9. THE TORQUE REQUIREMENTS SHALL BE AS FOLLOWS:
10. THE TORQUE REQUIREMENTS SHALL BE AS FOLLOWS:
11. THE TORQUE REQUIREMENTS SHALL BE AS FOLLOWS:
12. THE TORQUE REQUIREMENTS SHALL BE AS FOLLOWS:

FIBER & POWER CABLE MOUNTING NOTES

1. THE CONNECTIONS BETWEEN THE ANTENNA AND THE SUPPORT SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. ALL CONNECTIONS FOR WINDERS, SUPPORTS, BRACKETS, ETC. SHALL BE INSTALLED PER LOWER MANUFACTURER'S RECOMMENDATIONS.
3. CABLE SUPPORTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
7. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
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10. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
11. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
12. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

1. THE CONNECTIONS BETWEEN THE ANTENNA AND THE SUPPORT SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. ALL CONNECTIONS FOR WINDERS, SUPPORTS, BRACKETS, ETC. SHALL BE INSTALLED PER LOWER MANUFACTURER'S RECOMMENDATIONS.
3. CABLE SUPPORTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
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11. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
12. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

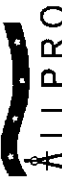


5555 EAST AVE
FRESNO, CA 93727



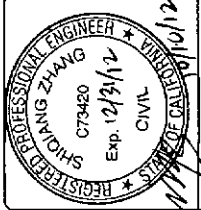
BLACK & VEATCH

10950 CONSUMERS DRIVE
OVERLAND PARK, KANSAS 66210
(816) 451-5000



ALLPRO
CONSULTING GROUP, INC.
8011 LYNDEN B JOHNSON FREEWAY
SUITE 1000
PHOENIX, AZ 85028
WWW.ALLPROCS.COM
ALCO# 12-5822

NO.	DATE	DESCRIPTION
1	12/02/12	ISSUE FOR PER
2	12/02/12	ISSUE FOR PER
3	02/02/13	ISSUE FOR PER
4	02/02/13	ISSUE FOR PER



REGISTERED PROFESSIONAL ENGINEER
SHUANG ZHANG
C79420
Exp. 12/31/12
CIVIL
I AM A LICENSED PROFESSIONAL ENGINEER
UNLESS INDICATED OTHERWISE, THE INFORMATION
ON THIS DOCUMENT IS THE PROPERTY OF ALLPRO CONSULTING GROUP, INC.

10090502 (CNU2322)
RED TOP OUTLOOK
HIGHWAY 41
MADERA, CA 93638
SELF-SUPPORT TOWER

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
C-7

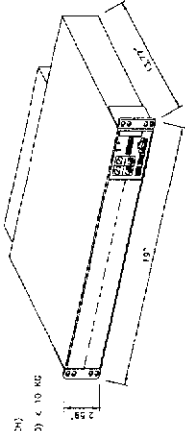
BVS-6601 MAIN UNIT (MU) SPECIFICATIONS

DC SOURCE SUPPLY

NOMINAL VOLTAGE: 48 V DC
NOMINAL OPERATING VOLTAGE RANGE: 40.0 TO -57.6 V DC
MINIMUM DISCHARGE VOLTAGE RANGE: 0 TO -60 V DC

DIMENSIONS

WEIGHT: 30.5 LBS (13.8 KG)
HEIGHT: 18.0" (457 MM)
DEPTH: 30.0" (762 MM)
WIDTH: 18.0" (457 MM)
COLOR: WHITE



NOTES:

- A MINIMUM SPACE OF 1" (25.4 MM) IS RECOMMENDED IN FRONT OF THE UNIT TO PROVIDE ADEQUATE WORKING SPACE.
- MINIMUM SPACING BETWEEN EQUIPMENT WITHIN THE RACK SHALL BE ONE RACK UNIT (FOR APPROXIMATELY 1.75").

NO SCALE

LIE MAIN UNIT

C

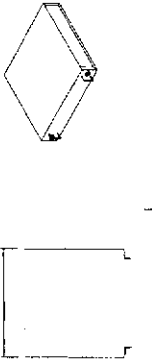
RAYCAP DC12-48-60-RM

DC SOURCE SUPPLY

NOMINAL OPERATING VOLTAGE: 48 VDC
NOMINAL DISCHARGE CURRENT: 20 MA @ 200MS
MINIMUM DISCHARGE CURRENT: 60 MA @ 200MS
MAXIMUM CONTINUOUS OPERATING VOLTAGE: 75 VDC
VOLTAGE PROTECTION RATING: 400 V
TOTAL WEIGHT: 3.20 LBS

DIMENSIONS

HEIGHT: 18.0" (457 MM)
DEPTH: 18.0" (457 MM)
WIDTH: 18.0" (457 MM)



NO SCALE

DC SURGE SUPPRESSOR

B

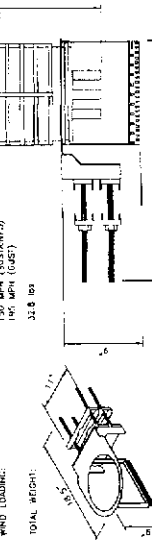
RAYCAP DC6-48-60-18-2F

DC SOURCE SUPPLY

NOMINAL OPERATING VOLTAGE: 48 VDC
NOMINAL DISCHARGE CURRENT: 20 MA @ 200MS
MINIMUM DISCHARGE CURRENT: 60 MA @ 200MS
MAXIMUM CONTINUOUS OPERATING VOLTAGE: 75 VDC
VOLTAGE PROTECTION RATING: 400 V
WIND LOADING: 150 MPH (SUSTAINED)
TOTAL WEIGHT: 33.8 LBS

DIMENSIONS

HEIGHT: 18.0" (457 MM)
DEPTH: 18.0" (457 MM)
WIDTH: 18.0" (457 MM)



CONTRACTOR TO VERIFY WHETHER EQUIPMENT ON
REQUIRING EXTRA SURGE PROTECTION

NO SCALE

DC SURGE PROTECTION DETAIL

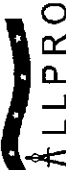
A



5555 EAST OLIVE
FRESNO, CA 93727

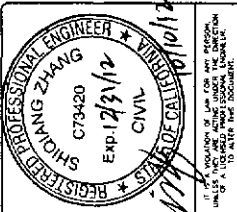


BLACK & VEATCH
18245 GRANVIEW BLVD
OVERLAND PARK, KANSAS 66210
(913) 438-2000



ALPRO
CONSULTING GROUP, INC.
302 LYNDON B JOHNSON FREEWAY
DALLAS, TEXAS 75241
PHONE: 972-221-6400
FAX: 972-221-6400
WWW.ALPROGROUP.COM
REC'D 12 28/27

NO.	DATE	DESCRIPTION
1	10/20/12	ISSUE FOR RF
2	10/20/12	ISSUE FOR RF
3	10/20/12	ISSUE FOR RF
4	10/20/12	ISSUE FOR RF
5	10/20/12	ISSUE FOR RF
6	10/20/12	ISSUE FOR RF

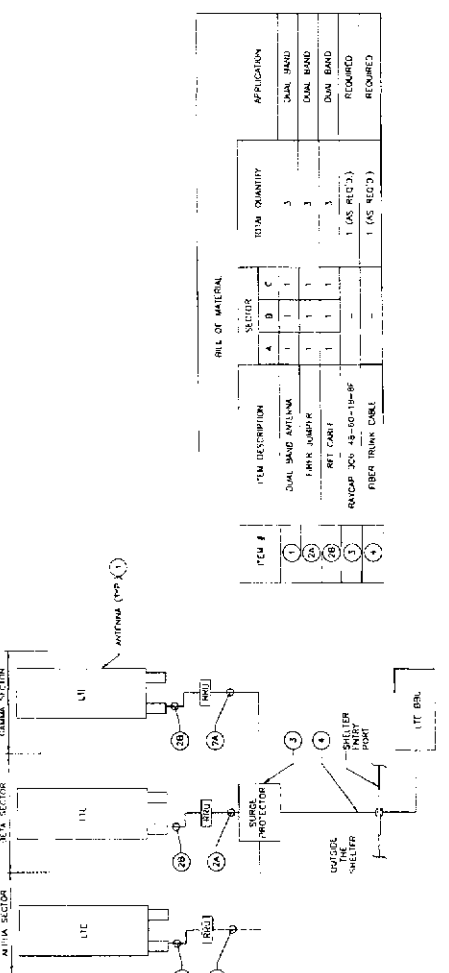


10090592 (GNU2327)
RED TOP OUTLOOK
HIGHWAY 41
MADERA, CA 93638
SELF-SUPPORT TOWER

SHEET TITLE
RET CONFIGURATION

SHEET NUMBER
RF-1

1. UNIT CABLE RET CABLE RUN TO LESS THAN 400 FT.
2. SUPPORT RET ASS. COMM. CABLE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. USE #16 AWG STRANDED COPPER (THIN-2) GREEN INSULATED GROUNDING CONDUCTOR UNLESS OTHERWISE NOTED. CORRECT THE TOWER TO EXISTING TOWER RACK GROUNDING SYSTEM.
4. PROVIDE PROTECTION TO THE EXISTING CABLES WITH 60# GALVANIZED STEEL BANDS. PROVIDE THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
5. TOWER MOUNT APPLICATION WILL DETERMINE THE LENGTH OF CABLE TO BE USED.
6. ASS. CABLES SHOULD BE CONNECTED TO ELECTRICAL DOWN TILT DRIVES ON THE ANTENNAS.
7. THE CABLES SHOULD BE PROTECTED FROM WEATHER AND MOISTURE. PROVIDE PROTECTION UNLESS OTHERWISE NOTED. PROVIDE PROTECTION AT EVERY LOCATION WHERE WATER MAY ACCUMULATE.
8. NO TESTING OF THE CABLE IS REQUIRED.
9. SEE DRAWING ON SECTOR CONFIGURATION SHEETS FOR ASS. BMS-1 PLACEMENT.
10. DURING INSTALLATION, RECORD THE FOLLOWING INFORMATION FOR USE DURING THE COMMISHARING PHASE: ANTENNA LOCATION, ANTENNA SERIAL NUMBER, ANTENNA SERIAL NUMBER.
11. ANTENNA CONFIGURATION IS SHOWN UNDIMENSIONED ONLY AS A REPRESENTATION.
12. IF A JUNCTION BOX WILL NOT BE USED AT THE TOP OF THE RET SYSTEM, IT IS RECOMMENDED THAT AN ADDITIONAL LIGHTNING PROTECTION UNIT BE INSTALLED AT THE TOWER TOP.
13. FOR RET CABLES 66 FEET OR LESS, THE ASS. CABLE GROUNDING KIT IS NOT REQUIRED AT THE SHELTER END.
14. USE THIS DRAWING FOR RET GROUNDING SPECIFICATIONS. SEE DRAWING C-1 FOR GENERAL REQUIREMENTS.



ITEM #	ITEM DESCRIPTION	TYPE OF MATERIAL			TOTAL QUANTITY	APPLICATION
		A	B	C		
1	60# GALV. ANTENNA	1	1	1	3	DAVE BAND
2	60# GALV. JUMPER	1	1	1	3	DAVE BAND
3	RET CABLE	1	1	1	3	DAVE BAND
4	ANTENNA JOY 48-10-10-10-10	-	-	-	1 (AS REQ'D)	REQUIRED
5	FIBER TRUNK CABLE	-	-	-	1 (AS REQ'D)	REQUIRED

NO SCALE NO SCALE
NOTES
RET Schematic Diagram (SEE NOTE 11)

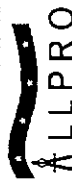
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5555 EAST GILVE
FRESNO, CA 93727

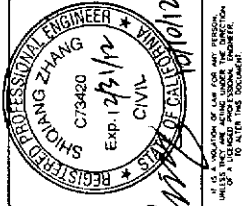


BLACK & VEATCH
18945 GRANDVIEW DRIVE
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8211 LYNDON B JOHNSON FREEWAY
DALLAS, TEXAS 75241
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800-841-1222

NO.	DATE	DESCRIPTION
1	06/09/12	ISSUE FOR IFC
2	10/09/12	ISSUE FOR PER
3	09/09/12	ISSUE FOR PER



10090592 (CNU2322)
RED TOP OUTLOOK
HIGHWAY 41
MADERA, CA 93638
SELF-SUPPORT TOWER

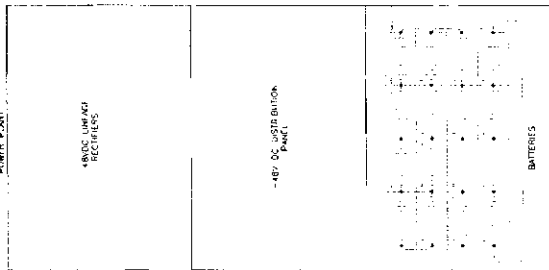
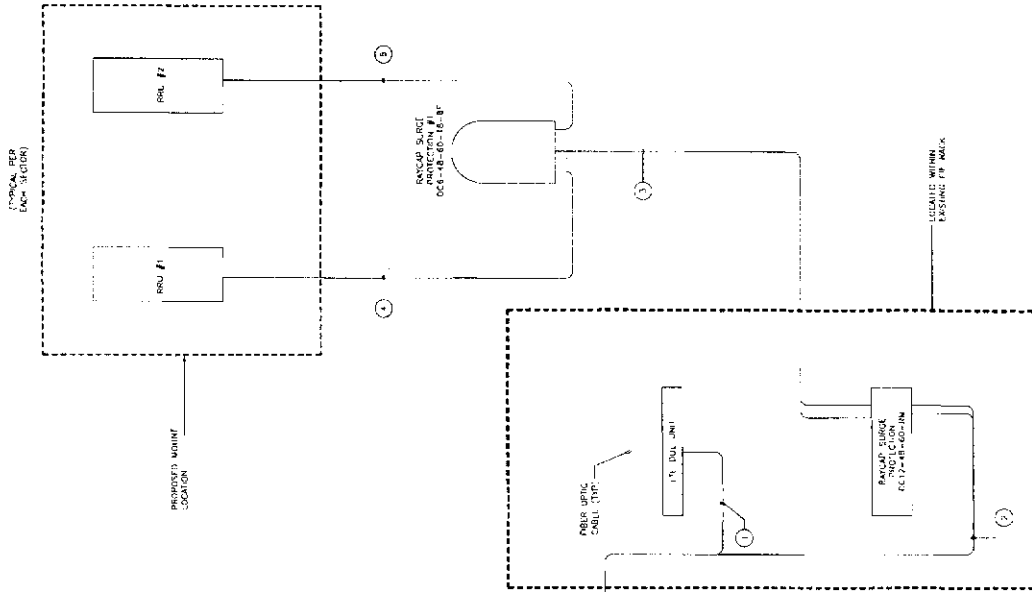
SHEET TITLE
ELECTRICAL DC
ONE-LINE DIAGRAM

SHEET NUMBER
E-1

NOTES

- DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING AND SHALL BE IDENTIFIED BY COLOR AND NUMBER TO ALL 200-200-200 AND 200-200-200.
- IF POWER WIRING SHALL BE IN ACCORDANCE WITH AIT-092-790-531.

DC CIRCUIT SCHEDULE		TO	CONFIGURATION
1	48VDC DISTRIBUTION PANEL	LTE O&J UNIT	(1) F1, (2) F2, (3) F3, (4) F4, (5) F5, (6) F6, (7) F7, (8) F8, (9) F9, (10) F10, (11) F11, (12) F12, (13) F13, (14) F14, (15) F15, (16) F16, (17) F17, (18) F18, (19) F19, (20) F20, (21) F21, (22) F22, (23) F23, (24) F24, (25) F25, (26) F26, (27) F27, (28) F28, (29) F29, (30) F30, (31) F31, (32) F32, (33) F33, (34) F34, (35) F35, (36) F36, (37) F37, (38) F38, (39) F39, (40) F40, (41) F41, (42) F42, (43) F43, (44) F44, (45) F45, (46) F46, (47) F47, (48) F48, (49) F49, (50) F50, (51) F51, (52) F52, (53) F53, (54) F54, (55) F55, (56) F56, (57) F57, (58) F58, (59) F59, (60) F60, (61) F61, (62) F62, (63) F63, (64) F64, (65) F65, (66) F66, (67) F67, (68) F68, (69) F69, (70) F70, (71) F71, (72) F72, (73) F73, (74) F74, (75) F75, (76) F76, (77) F77, (78) F78, (79) F79, (80) F80, (81) F81, (82) F82, (83) F83, (84) F84, (85) F85, (86) F86, (87) F87, (88) F88, (89) F89, (90) F90, (91) F91, (92) F92, (93) F93, (94) F94, (95) F95, (96) F96, (97) F97, (98) F98, (99) F99, (100) F100
2	48VDC DISTRIBUTION PANEL	PROTECTION	(1) F1, (2) F2, (3) F3, (4) F4, (5) F5, (6) F6, (7) F7, (8) F8, (9) F9, (10) F10, (11) F11, (12) F12, (13) F13, (14) F14, (15) F15, (16) F16, (17) F17, (18) F18, (19) F19, (20) F20, (21) F21, (22) F22, (23) F23, (24) F24, (25) F25, (26) F26, (27) F27, (28) F28, (29) F29, (30) F30, (31) F31, (32) F32, (33) F33, (34) F34, (35) F35, (36) F36, (37) F37, (38) F38, (39) F39, (40) F40, (41) F41, (42) F42, (43) F43, (44) F44, (45) F45, (46) F46, (47) F47, (48) F48, (49) F49, (50) F50, (51) F51, (52) F52, (53) F53, (54) F54, (55) F55, (56) F56, (57) F57, (58) F58, (59) F59, (60) F60, (61) F61, (62) F62, (63) F63, (64) F64, (65) F65, (66) F66, (67) F67, (68) F68, (69) F69, (70) F70, (71) F71, (72) F72, (73) F73, (74) F74, (75) F75, (76) F76, (77) F77, (78) F78, (79) F79, (80) F80, (81) F81, (82) F82, (83) F83, (84) F84, (85) F85, (86) F86, (87) F87, (88) F88, (89) F89, (90) F90, (91) F91, (92) F92, (93) F93, (94) F94, (95) F95, (96) F96, (97) F97, (98) F98, (99) F99, (100) F100
3	48VDC DISTRIBUTION PANEL	PACKAGE SOURCE	(1) F1, (2) F2, (3) F3, (4) F4, (5) F5, (6) F6, (7) F7, (8) F8, (9) F9, (10) F10, (11) F11, (12) F12, (13) F13, (14) F14, (15) F15, (16) F16, (17) F17, (18) F18, (19) F19, (20) F20, (21) F21, (22) F22, (23) F23, (24) F24, (25) F25, (26) F26, (27) F27, (28) F28, (29) F29, (30) F30, (31) F31, (32) F32, (33) F33, (34) F34, (35) F35, (36) F36, (37) F37, (38) F38, (39) F39, (40) F40, (41) F41, (42) F42, (43) F43, (44) F44, (45) F45, (46) F46, (47) F47, (48) F48, (49) F49, (50) F50, (51) F51, (52) F52, (53) F53, (54) F54, (55) F55, (56) F56, (57) F57, (58) F58, (59) F59, (60) F60, (61) F61, (62) F62, (63) F63, (64) F64, (65) F65, (66) F66, (67) F67, (68) F68, (69) F69, (70) F70, (71) F71, (72) F72, (73) F73, (74) F74, (75) F75, (76) F76, (77) F77, (78) F78, (79) F79, (80) F80, (81) F81, (82) F82, (83) F83, (84) F84, (85) F85, (86) F86, (87) F87, (88) F88, (89) F89, (90) F90, (91) F91, (92) F92, (93) F93, (94) F94, (95) F95, (96) F96, (97) F97, (98) F98, (99) F99, (100) F100
4	48VDC DISTRIBUTION PANEL	PACKAGE SOURCE	(1) F1, (2) F2, (3) F3, (4) F4, (5) F5, (6) F6, (7) F7, (8) F8, (9) F9, (10) F10, (11) F11, (12) F12, (13) F13, (14) F14, (15) F15, (16) F16, (17) F17, (18) F18, (19) F19, (20) F20, (21) F21, (22) F22, (23) F23, (24) F24, (25) F25, (26) F26, (27) F27, (28) F28, (29) F29, (30) F30, (31) F31, (32) F32, (33) F33, (34) F34, (35) F35, (36) F36, (37) F37, (38) F38, (39) F39, (40) F40, (41) F41, (42) F42, (43) F43, (44) F44, (45) F45, (46) F46, (47) F47, (48) F48, (49) F49, (50) F50, (51) F51, (52) F52, (53) F53, (54) F54, (55) F55, (56) F56, (57) F57, (58) F58, (59) F59, (60) F60, (61) F61, (62) F62, (63) F63, (64) F64, (65) F65, (66) F66, (67) F67, (68) F68, (69) F69, (70) F70, (71) F71, (72) F72, (73) F73, (74) F74, (75) F75, (76) F76, (77) F77, (78) F78, (79) F79, (80) F80, (81) F81, (82) F82, (83) F83, (84) F84, (85) F85, (86) F86, (87) F87, (88) F88, (89) F89, (90) F90, (91) F91, (92) F92, (93) F93, (94) F94, (95) F95, (96) F96, (97) F97, (98) F98, (99) F99, (100) F100
5	48VDC DISTRIBUTION PANEL	PACK. #1	(1) F1, (2) F2, (3) F3, (4) F4, (5) F5, (6) F6, (7) F7, (8) F8, (9) F9, (10) F10, (11) F11, (12) F12, (13) F13, (14) F14, (15) F15, (16) F16, (17) F17, (18) F18, (19) F19, (20) F20, (21) F21, (22) F22, (23) F23, (24) F24, (25) F25, (26) F26, (27) F27, (28) F28, (29) F29, (30) F30, (31) F31, (32) F32, (33) F33, (34) F34, (35) F35, (36) F36, (37) F37, (38) F38, (39) F39, (40) F40, (41) F41, (42) F42, (43) F43, (44) F44, (45) F45, (46) F46, (47) F47, (48) F48, (49) F49, (50) F50, (51) F51, (52) F52, (53) F53, (54) F54, (55) F55, (56) F56, (57) F57, (58) F58, (59) F59, (60) F60, (61) F61, (62) F62, (63) F63, (64) F64, (65) F65, (66) F66, (67) F67, (68) F68, (69) F69, (70) F70, (71) F71, (72) F72, (73) F73, (74) F74, (75) F75, (76) F76, (77) F77, (78) F78, (79) F79, (80) F80, (81) F81, (82) F82, (83) F83, (84) F84, (85) F85, (86) F86, (87) F87, (88) F88, (89) F89, (90) F90, (91) F91, (92) F92, (93) F93, (94) F94, (95) F95, (96) F96, (97) F97, (98) F98, (99) F99, (100) F100
6	48VDC DISTRIBUTION PANEL	PACK. #2	(1) F1, (2) F2, (3) F3, (4) F4, (5) F5, (6) F6, (7) F7, (8) F8, (9) F9, (10) F10, (11) F11, (12) F12, (13) F13, (14) F14, (15) F15, (16) F16, (17) F17, (18) F18, (19) F19, (20) F20, (21) F21, (22) F22, (23) F23, (24) F24, (25) F25, (26) F26, (27) F27, (28) F28, (29) F29, (30) F30, (31) F31, (32) F32, (33) F33, (34) F34, (35) F35, (36) F36, (37) F37, (38) F38, (39) F39, (40) F40, (41) F41, (42) F42, (43) F43, (44) F44, (45) F45, (46) F46, (47) F47, (48) F48, (49) F49, (50) F50, (51) F51, (52) F52, (53) F53, (54) F54, (55) F55, (56) F56, (57) F57, (58) F58, (59) F59, (60) F60, (61) F61, (62) F62, (63) F63, (64) F64, (65) F65, (66) F66, (67) F67, (68) F68, (69) F69, (70) F70, (71) F71, (72) F72, (73) F73, (74) F74, (75) F75, (76) F76, (77) F77, (78) F78, (79) F79, (80) F80, (81) F81, (82) F82, (83) F83, (84) F84, (85) F85, (86) F86, (87) F87, (88) F88, (89) F89, (90) F90, (91) F91, (92) F92, (93) F93, (94) F94, (95) F95, (96) F96, (97) F97, (98) F98, (99) F99, (100) F100



BATTERIES

48VDC DISTRIBUTION PANEL

48VDC UNPACK RECEIVERS

LINEAGE DC POWER PLANT

LOCATED WITHIN EXISTING FT WORK

PACK. #2 DC-48-60-18-8F

PROPOSED MOUNT LOCATION

TYPICAL PER EXC-3(C) (COLOR)

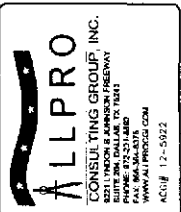
3/12/12
SHUANG ZHANG



5555 EAST OVAL
FRESNO, CA 93727

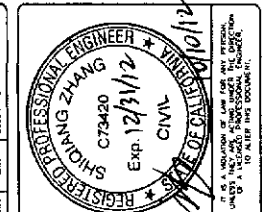


10150 GRANDVIEW DRIVE
OVERLAND PARK, MISSOURI 66210
(913) 451-5000



8221 UNION & JAMESON FREEWAY
SUITE 101
P.O. BOX 101
WWW.ALPRO.COM
ACQ# 12-5022

NO.	DATE	DESCRIPTION
1	02/07/12	ISSUE CD RFE
2	02/07/12	ISSUE CD RFE
3	02/07/12	ISSUE CD RFE

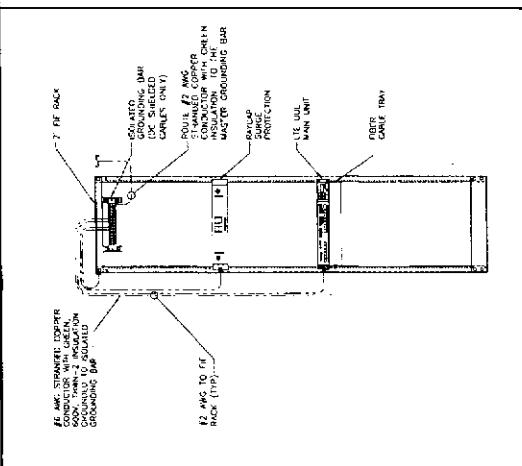


10090592 (CNU2322)
RED TOP OUTLOOK
HIGHWAY 41
MADERA, CA 93638
SELF-SUPPORT TOWER

GROUNDING DETAILS

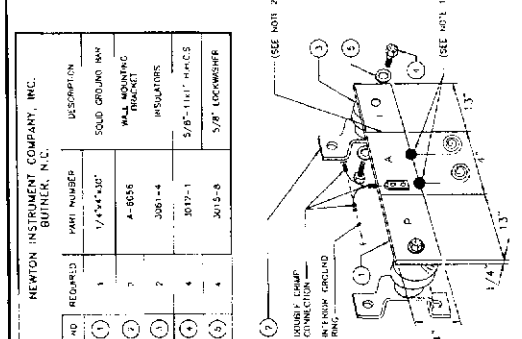
SHEET NUMBER
G-2

1. EXTERIOR FIELD #2 AWG BARE TINNED SOLID COPPER CONDUCTOR TO GROUND BAR. DOUBLE CONDUCTOR TO SHIELD GROUND RING AND PROVIDE PARALLEL CONFORMING FIELD.
2. ALL GROUND BARS SHALL BE STAMPED IN TO THE METAL TO PROVIDE IDENTIFICATION. IDENTIFICATION SHALL BE PERMANENT MARKER TO SHOW THE LINKS BETWEEN EACH SECTION AND LABEL EACH SECTION (P, A, T) WITH 1" HIGH LETTERS.
3. ALL WAREHOUSE SHALL BE STAINLESS STEEL (SST) THIMBLER OR CONDUCTOR WITH GREEN INSULATION TO GROUND BAR. CONDUCTOR WASTES CONTAIN SURFACES WITH AN ANTI OXIDANT COMPOUND BEFORE MATING.
4. FOR GROUND BARS TO SST - ONLY USE SST A COLUMBIUM FLAT ANTI OXIDANT COMPOUND BEFORE MATING.
5. DO NOT INSTALL CABLE GROUND KIT AT A BOND AND ALWAYS DIRECT GROUNDING CONDUCTOR DOWN TO GROUNDING BUS.
6. NUT & WASHING NUT IS PLACED ON THE FRONT SIDE OF THE GROUND BAR AND NUTTED ON THE BACK SIDE. INSTALL BLACK CONDUCTOR INSULATION TO THE BACK SIDE OF THE GROUNDING TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE CONNECTION.
7. SUPPLIED AND INSTALLED BY CONTRACTOR.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSULATING THE CONDUCTOR TO THE GROUND BAR. PROVIDING 50% SPARE CONNECTION POINTS.
9. INSURE THE WET INSULATION TEMPERATURE IS WITHIN 1/8" OF THE BARREL (NO SHIMMED).



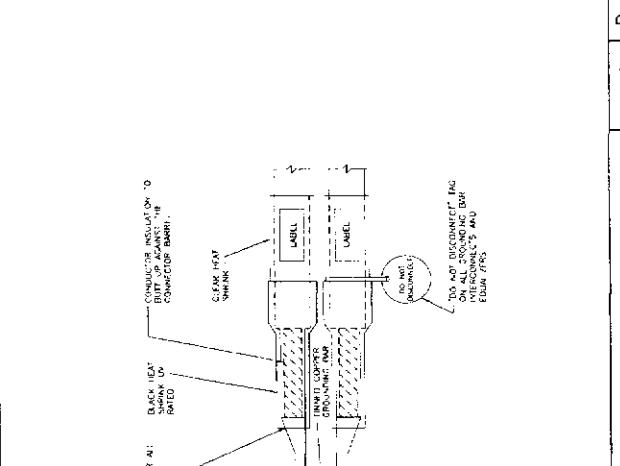
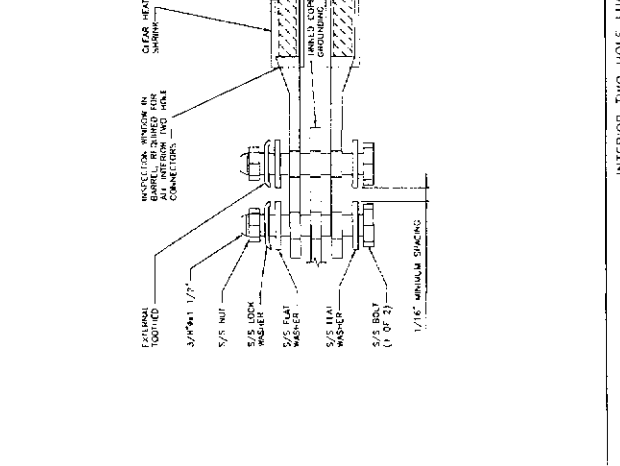
UTE RACK GROUNDING

- EACH GROUNDING CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.
- SECTION "P" - SURGE PROTECTORS
- (A) SOL REFERENCE GROUND BAR (IF CONTIGUOUS)
 - (B) DI WRENCHER FRAMEWORK (IF AVAILABLE) (#2 AWG)
 - (C) FIELD GROUNDING CONDUCTOR (IF AVAILABLE) (#2 AWG)
 - (D) OTHER GROUND BAR (#2 AWG)
 - (E) POWER ROOM REFERENCE GROUND BAR (#2 AWG)
 - (A)(B)(C)(D)(E) REFER TO TAGS
- SECTION "A" - SURGE ARRESTERS
- (A) INTERIOR GROUND RING (#2 AWG)
 - (B) EXTERIOR EARTH GROUNDING FIELD (BARE) GROUND RING (#2 AWG)
 - (C) METALLIC SURFACE WITH INSULATION (#2 AWG)
 - (D) INSULATED SURFACE (IF AVAILABLE) (#2 AWG)
 - (A)(B)(C)(D) REFER TO TAGS
- SECTION "T" - ISOLATED GROUNDING ZONE
- (A) ALL ISOLATED GROUNDING REFERENCE (A)(B)(C) THROUGH WINDOW BAR



(MGB) REFERENCE GROUNDING BAR

- NOTES
1. NO SCALE
 2. NO SCALE
 3. NO SCALE



INTERIOR TWO-HOLE LUG DETAIL

EXTERIOR TWO-HOLE LUG OFF-TAIL

NO SCALE

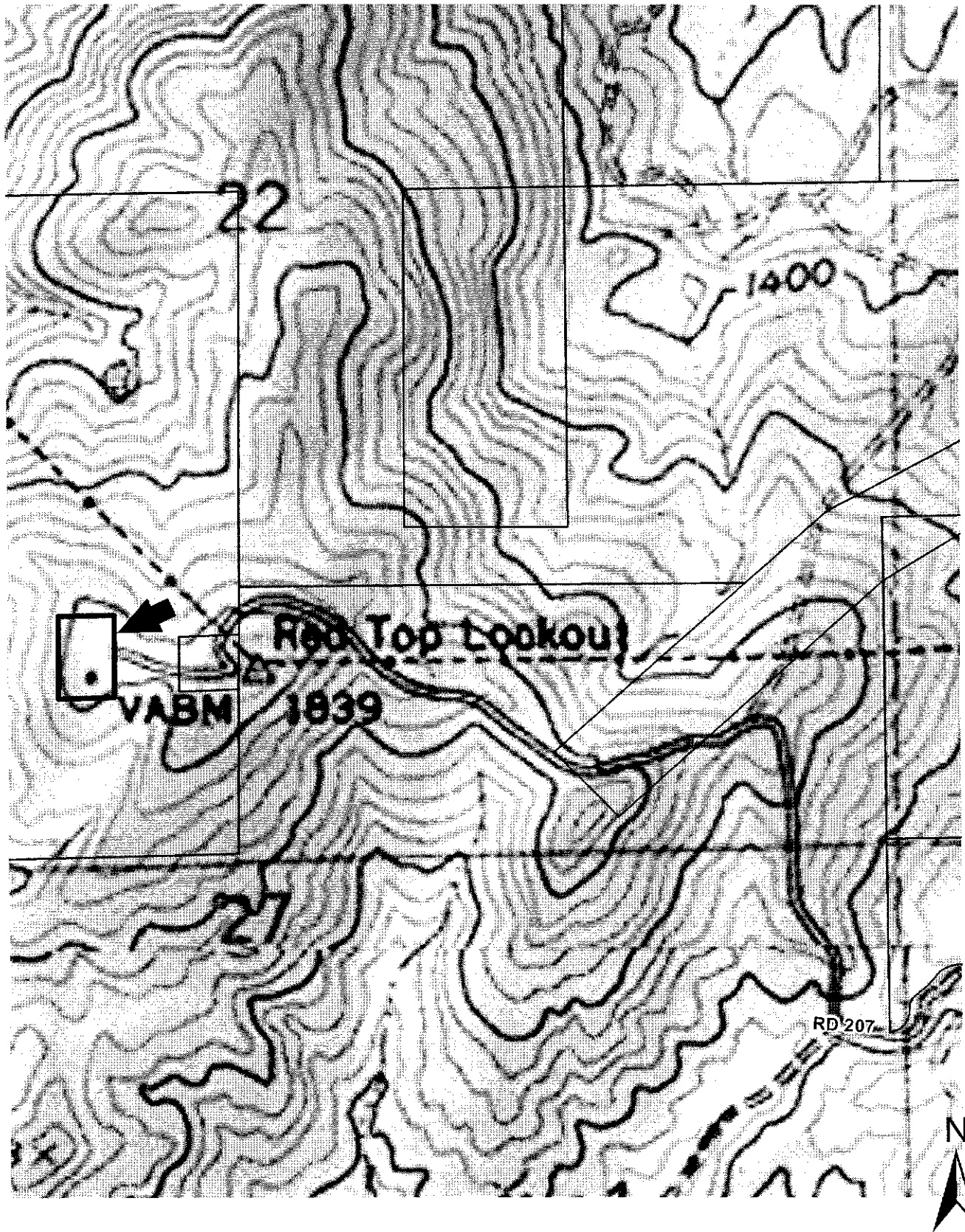
NO SCALE

NO SCALE

NO SCALE



AERIAL MAP



TOPOGRAPHICAL MAP

Madera County Planning Department
2037 W. Cleveland Avenue MS-G, Madera CA 93637

OPERATIONAL/ENVIRONMENTAL STATEMENT CHECKLIST

It is important that the operational/environmental statement provides for a complete understanding of your project proposal. Please be as detailed as possible.

1. Please provide the following information

Assessor's Parcel Number: 050-061-010
Applicant's Name: CARL JONES(AT&T Agent)
Address: Hwy 41 Madera CA93638 (Cell site)
Phone Number: 918 798 2275

2. Describe the nature of your proposal/operation.

Upgrade to un-manned wireless facility

3. What is the existing use of the property?

telecommunication site

4. What products will be produced by the operation? Will they be produced onsite or at some other location? Are these products to be sold onsite?

N/A

5. What are the proposed operational time limits?

Months (if seasonal): 12
Days per week: 7
Hours (from ___ to ___): 24
Total Hours per day: 24

7. How many customers or visitors are expected?

Average number per day: N/A
Maximum number per day: N/A
What hours will customers/visitors be there? N/A

8. How many employees will there be?

Current: N/A
Future: N/A
Hours they work: N/A
Do any live onsite? If so, in what capacity (i.e. caretaker)?

9. **What equipment, materials, or supplies will be used and how will they be stored? If appropriate, provide pictures or brochures.**
NONE
10. **Will there be any service and delivery vehicles?**
Number: 2 MAX
Type: PICK UP TRUCK
Frequency: 1-2 TIMES PER YR
11. **Number of parking spaces for employees, customers, and service/delivery vehicles. Type of surfacing on parking area.**
N/A
12. **How will access be provided to the property/project? (street name)**
ACCESS FROM RED TOP LOOK OUT ROAD
13. **Estimate the number and type (i.e. cars or trucks) of vehicular trips per day that will be generated by the proposed development.**
2 TRUCKS FOR 1 WEEK
14. **Describe any proposed advertising including size, appearance, and placement.**
NONE
15. **Will existing buildings be used or will new buildings be constructed? Indicate which building(s) or portion(s) of will be utilized and describe the type of construction materials, height, color, etc. Provide floor plan and elevations, if applicable.**
Existing tower
16. **Is there any landscaping or fencing proposed? Describe type and location.**
n/a
17. **What are the surrounding land uses to the north, south, east and west property boundaries?**
rural
18. **Will this operation or equipment used, generate noise above other existing parcels in the area?**
NONE
19. **On a daily or annual basis, estimate how much water will be used by the proposed development, and how is water to be supplied to the proposed development (please be specific).**
None

20. On a daily or weekly basis, how much wastewater will be generated by the proposed project and how will it be disposed of?
none
21. On a daily or weekly basis, how much solid waste (garbage) will be generated by the proposed project and how will it be disposed of?
none
22. Will there be any grading? Tree removal? (please state the purpose, i.e. for building pads, roads, drainage, etc.)
NONE
23. Are there any archeological or historically significant sits located on this property? If so, describe and show location on site plan.
N/A
24. Locate and show all bodies of water on application plot plan or attached map.
N/A
25. Show any ravines, gullies, and natural drainage courses on the property on the plot plan.
N/A
26. Will hazardous materials or waste be produced as part of this project? If so, how will they be shipped or disposed of?
NONE
27. Will your proposal require use of any public services or facilities? (i.e. schools, parks, fire and police protection or special districts?)
NONE
28. How do you see this development impacting the surrounding area?
NONE
29. How do you see this development impacting schools, parks, fire and police protection or special districts?
NONE
30. If your proposal is for commercial or industrial development, please complete the following;
Proposed Use(s):
Square feet of building area(s):
Total number of employees:
Building Heights:



Shore 2 Shore on behalf of



EXHIBIT G-1

at&t

October 15, 2012

c/o Shore 2 Shore Wireless Inc.
P.O.Box 6043
Folsom, CA 95763

County of Madera
Planning Department
2037 W. Cleveland Avenue
Madera CA 93637

Operational Statement

Re: AT&T Cell Site # FA: 10101920 CNU2322 – RED TOP LOOKOUT

Site Location: Highway 41, Madera CA 93638 (APN: 050-061-010) CUP# 2010-014

To Whom It May Concern:

AT&T is in the process of conducting minor enhancement modifications to its above referenced Un-manned wireless communications facility.

And the scope of work is as follows:

- Add (3) New 4' antennas on the existing AT&T tower. Total (9) antennas remaining.
- Add (2) Remote Radio Units (RRU'S) behind the New antennas.
- Add (1) Surge arrestor.
- Add (1) RBS 6601 radio base station in the existing 19" rack within the existing AT&T equipment shelter.
- Operating 24hrs a day 7 days a week. There will be No persons on site except for period maintenance, possibly (2) times annually. This is an existing cell site location with a 62ft existing lattice tower used for communications
- There will be no solid or liquid waste produced by the proposed project. Water is not required for the operation of the facility.
- There will be no supplies or materials stored on the site.

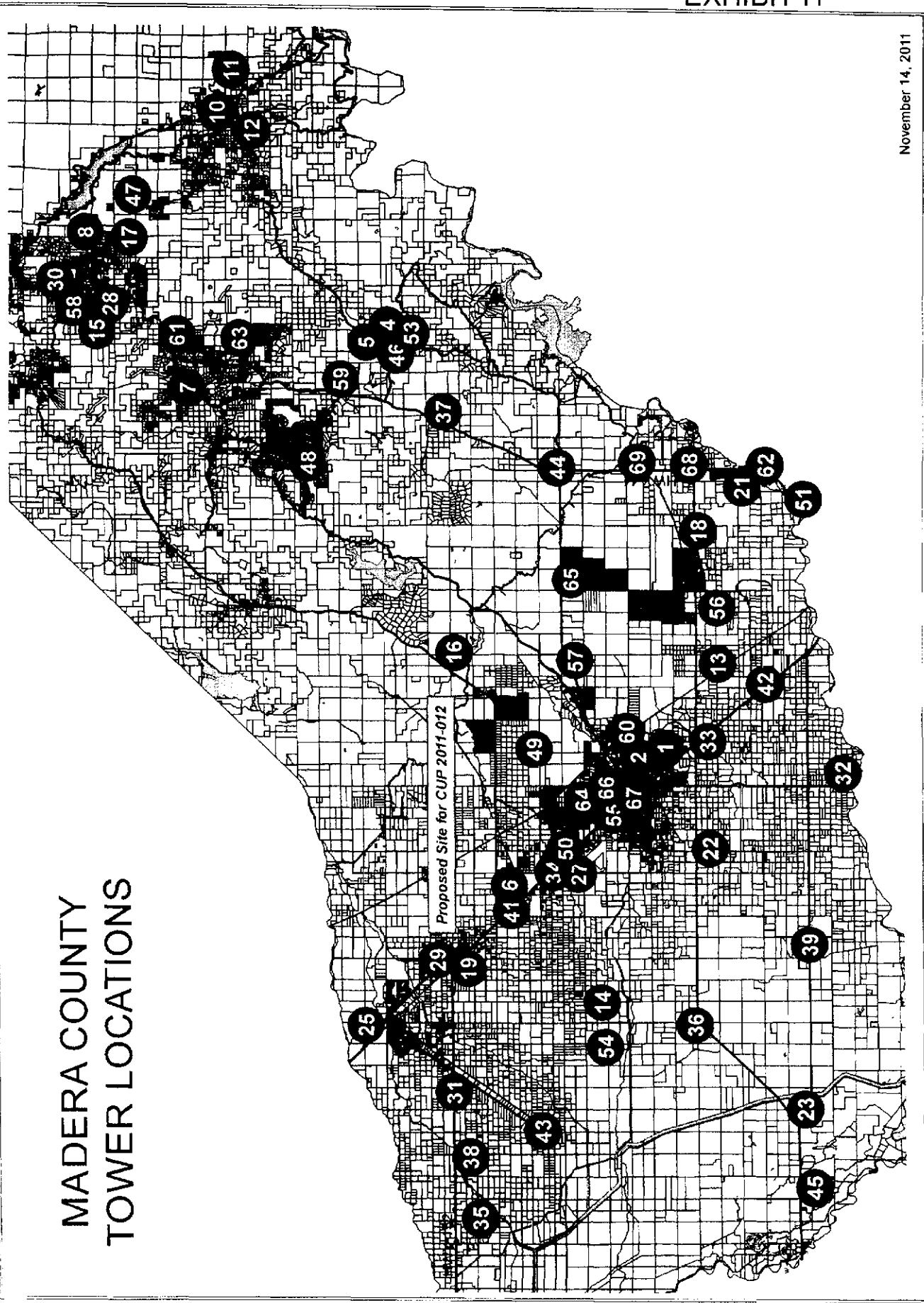
The proposed project is the result of the advanced technical changes to the industry with the end goal being the development of a more efficient and cost effective means of mobile/portable communications to the public and emergency service agencies located throughout the county

No additional height or modifications will be made to the facility

Thank you for your help on this matter. I can be reached at 916-798-2275 with any questions.
Sincerely,

Carl A. Jones
Project Manager
Shore 2 Shore Wireless Inc. – AT&T Mobility Project

Supplemental Operational Statement



MADERA COUNTY FIRE DEPARTMENT

IN COOPERATION WITH
CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION

2037 W. CLEVELAND
MADERA, CALIFORNIA 93637
(559) 661-6333
(559) 675-6973 FAX

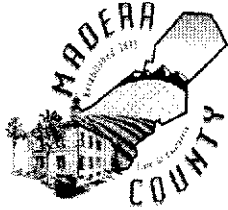
DEBORAH KEENAN
MADERA COUNTY FIRE MARCHAL

MEMORANDUM

TO: Robert Mansfield
FROM: Madera County
DATE: November 6, 2012
RE: AT&T - Conditional Use Permit - Coarsegold (050-061-010-000)

Comments

At the time of application for a Building Permit, a more in-depth plan review of the proposed project's compliance with all current fire and life safety codes will be conducted by the Madera County Fire Marshal. (CFC, Section 105.2)



RESOURCE MANAGEMENT AGENCY
Road Department

Johannes J. Hoevertsz, Road Commissioner

EXHIBIT J

- 2037 W. Cleveland Ave., MS#D
- Madera, CA 93637-8720
- (559) 675-7811
- FAX (559) 675-7631
- TDD (559) 675-8970

MEMORANDUM

TO: Robert Mansfield, Planning Department, Madera County

FROM: H. Mitch Hemaidan, Development Services Engineer, Road Department

DATE: November 7, 2012 *H. Mitch Hemaidan*

RE: **C.U.P. 2012-24, American Tower Inc_ATT cellular tower**

We have completed our review of the proposal by AT&T to upgrade existing tower by adding new antennas and other ancillary equipment within the existing equipment shelter.

The proposed project has access onto Rd 207 via a private easement named Red Top Mountain Court. The Road Department has no jurisdiction over private easements.

The Road Department does not anticipate any additional road impacts from the above-referenced project.

CONDITIONS OF APPROVAL

EXHIBIT K

PROJECT NAME: CUP #2012-024 Shockley

PROJECT LOCATION: West side of Road 207 app.2.9 mile southwest of Highway 41

PROJECT DESCRIPTION: Installation and replacement of new antenna on existing cell tower

APPLICANT: Bob Shockley

CONTACT PERSON/TELEPHONE NUMBER: (559) 822-6246

No.	Condition	Department/Agency	Verification of Compliance		
			Initials	Date	Remarks
Engineering					
	none				
Environmental Health					
	none				
Fire					
1	At the time of application for a Building Permit, a more in-depth plan review of the proposed project's compliance with all current fire and life safety codes will be conducted by the Madera County Fire Marshal. (CFC, Section 105.2).	Fire			
Planning					
1	Facility to operate in accordance with submitted Operational Statement and plans unless otherwise modified by conditions of approval.	Planning			
2	All lighting shall be hooded and directed downward so as not to impact surrounding parcels.	Planning			
3	The proposed design and operations of this project shall not create a situation that will be in conflict with the previous conditional use permit	Planning			
4	The tower antennas shall be treated or coated in such a manner as to make it non-reflective	Planning/building			
5	Construction and operation of the facility must meet FCC standards for radio frequency operations within the vicinity	Planning			

