



# at&t

## SITE NUMBER: CVL03140

## SITE NAME: LOTUS

2002 COFFER LANE  
PLACERVILLE, CA 95667  
JURISDICTION: ELDORADO COUNTY

## SITE TYPE: MONOPINE/SHELTER

Issued For:  
**LOTUS**  
2002 COFFER LANE  
PLACERVILLE, CA 95667

PREPARED FOR  
  
3600 Camino Ramon, #4550 H  
San Ramon, California 94583

WIRELESS GROUP LLC  
Creating a Wireless World

AT&T SHEET NO: CVL03140  
PROJECT NO: 1378744  
DRAWN BY: CES  
CHECKED BY: CES

#	DATE	DESCRIPTION
1	11/20/18	201805
2	12/10/18	201805
3	1/11/19	201805
4	1/11/19	201805
5	1/11/19	201805
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29	1/11/19	201805
30	1/11/19	201805

Licensee:

IF A VIOLATION OF LAW FOR ANY PERSON SHALL BE FOUND UNDER THE EMPLOYMENT OF A LICENSED PROFESSIONAL ENGINEER TO ALTER HIS DOCUMENT.

Engineer:  
**ADAPTIVE RE-USE ENGINEERING**  
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SACRAMENTO, CA 95821  
craighomer@yahoo.com

SHEET TITLE:  
**TITLE SHEET**

SHEET NUMBER:  
**T-1**

PROJECT DESCRIPTION	PROJECT INFORMATION	PROJECT TEAM	SHEET INDEX	REV																											
<p>PROPOSED SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY.</p> <ol style="list-style-type: none"> <li>1. ISSUE PERMIT / TIE-IN TO SITE LOCATION</li> <li>2. INITIAL ASSET APPROVALS AT SITE LOCATION</li> <li>3. 40'x40' FENCED LEASE AREA</li> <li>4. INITIAL ASSET APPROVED PRE-FABRICATED EQUIPMENT SHELTER AND ASSOCIATED WIRELESS EQUIPMENT</li> <li>5. ADD (1) PROPOSED GPS UNIT</li> <li>6. ADD (2) PROPOSED IRIS &amp; (4) FIBER RINGS</li> <li>7. ADD (12) ANTENNAS (4) FOR ALPHA, BETA, GAMMA SECTOR</li> <li>8. ADD (2) PROPOSED IRIS &amp; (4) FIBER RINGS</li> <li>9. ADD (4) SURGE SUPPRESSORS</li> <li>10. ADD 8'-0" HIGH CHAIN LINK FENCE W/ 10' HIGH GATE</li> <li>11. ADD 200' AS FENCE CONNECTION WITH ATTACHED 180 GALLON TANK</li> </ol>	<p>PROPERTY INFORMATION: SITE NAME: LOTUS SITE NUMBER: CVL03140</p> <p>SEARCH RING: LOTUS FA# 1378744 SITE ADDRESS: 2002 COFFER LANE PLACERVILLE, CA 95667</p> <p>A.P.N. NUMBER: 104-090-13-100 CURRENT USE: PROPOSED USE: (U) UNMANNED TELECOMMUNICATION FACILITY</p> <p>JURISDICTION: ELDORADO COUNTY LATITUDE: N 38° 46' 27.57" LONGITUDE: W 120° 58' 31.63" GROUND ELEVATION: ±1154.0 FT. AMSL</p>	<p>APPLICANT / LESSEE: AT&amp;T 2001 EXECUTIVE PARKWAY SAN RAMON, CA 94583</p> <p>RF ENGINEER: JAY CONTRACT: ASAD SHARAF EMAIL: JSHARAF@AT&amp;T.COM PH: (925) 348-2573</p> <p>PROJECT MGR: EPIC WIRELESS CONTACT: NICK TAGAS EMAIL: NICK.TAGAS@EPICWIRELESS.NET PH: (916) 990-1148</p> <p>SITE ACQUISITION: CONTACT: EPIC WIRELESS CONTACT: JARED KEARSELEY (TOWNS MGR) EMAIL: JARED.KEARSELEY@EPICWIRELESS.NET CELL: (916) 755-1328</p> <p>CONSTRUCTION MGR: CONTACT: EPIC WIRELESS CONTACT: ANDREW MEDINA EMAIL: ANDREW.MEDINA@EPICWIRELESS.NET PH: (530) 574-4773</p>	<p>T-1 TITLE SHEET GN-1 GENERAL NOTES C-1 SITE SURVEY (BY OTHERS) FOR REFERENCE ONLY C-2 SITE SURVEY (BY OTHERS) FOR REFERENCE ONLY C-3 SITE SURVEY (BY OTHERS) FOR REFERENCE ONLY C-3.1 EROSION CONTROL NOTES C-3.2 GRADING PLAN &amp; DETAILS A-1 OVERALL SITE PLAN AND SITE PLAN - EXTERIOR EQUIPMENT SHELTER A-1.1 ENLARGED SITE PLAN - EXTERIOR EQUIPMENT SHELTER A-2 EQUIPMENT AREA PLAN - EXTERIOR EQUIPMENT SHELTER A-3 ANTENNA PLAN &amp; DETAILS - MONOPINE A-4 PROPOSED MONOPINE NORTH - SOUTH ELEVATION A-4.2 PROPOSED MONOPINE WEST - EAST ELEVATION</p>																												
<p>CODE COMPLIANCE</p> <p>ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:</p> <ol style="list-style-type: none"> <li>1. 2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R. (CALIFORNIA CODE OF REGULATIONS)</li> <li>2. 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (VOLUMES 1 &amp; 2), (2015 INTERNATIONAL BUILDING CODE)</li> <li>3. 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, C.C.R., (2014 NATIONAL ELECTRICAL CODE)</li> <li>4. 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R., (2015 UNIFORM MECHANICAL CODE)</li> <li>5. 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R., (2015 UNIFORM PLUMBING CODE)</li> <li>6. 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.</li> <li>7. 2016 CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24, C.C.R., (2015 INTERNATIONAL BUILDING CODE)</li> <li>8. 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R., (2015 INTERNATIONAL FIRE CODE)</li> <li>9. 2016 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24, C.C.R., (2015 INTERNATIONAL BUILDING CODE)</li> <li>10. 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R., (CALGreen)</li> <li>11. 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24, C.C.R.</li> <li>12. ANS/ISA-TIA-222-C</li> <li>13. ALONG WITH ANY OTHER APPLICABLE LOCAL &amp; STATE LAWS AND REGULATIONS.</li> </ol> <p><b>DISABLED ACCESS REQUIREMENTS</b> THIS FACILITY IS UNMANNED &amp; NOT FOR HUMAN HABITATION. DISABLED ACCESS &amp; REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE TITLE 24 PART 2, SECTION 11B-203.4</p>	<p>RFDS DATED 10-17-2018, ISSUE 1.0 REVISION 1.00.00</p>	<p>DIRECTIONS FROM AT&amp;T</p> <p>DIRECTIONS FROM AT&amp;T'S OFFICE AT 2000 CAMINO RAMON, SAN RAMON, CA 94583</p> <ol style="list-style-type: none"> <li>1. 2000 CAMINO RAMON, SAN RAMON, CA 94583</li> <li>2. SOUTH CAMINO RAMON TOWARD BENDER DR 0.3 MI</li> <li>3. TURN RIGHT ONTO BELLFLOW CANYON DR 0.4 MI</li> <li>4. TAKE RAMP RIGHT FOR 1-400 NORTH TOWARD SACRAMENTO 34.1 MI</li> <li>5. TAKE RAMP RIGHT FOR 1-80 EAST TOWARD SACRAMENTO 41.6 MI</li> <li>6. KEEP STRAIGHT ONTO I-80 E SR / US-50 E 5.2 MI</li> <li>7. KEEP STRAIGHT ONTO US-50 E 2.8 MI</li> <li>8. (EXIT 37), TAKE RAMP RIGHT FOR R. SHINGLE RD / PONDEROSA RD TOWARD MOTHER LODE DR 0.3 MI</li> <li>9. TURN LEFT ONTO R. SHINGLE RD / PONDEROSA RD 0.2 MI</li> <li>10. TURN RIGHT ONTO R. SHINGLE RD 4.0 MI</li> <li>11. KEEP STRAIGHT ONTO CROWN VALLEY RD 0.4 MI</li> <li>12. KEEP STRAIGHT ONTO LINDSEY RD 1.8 MI</li> <li>13. BEAR LEFT ONTO SPRINGDALE RD 1.7 MI</li> <li>14. BEAR LEFT ONTO LINDSEY RD 1.0 MI</li> <li>15. TURN RIGHT ONTO E. G. LARSEN DR 0.8 MI</li> <li>16. MAKE RIGHT TURN TO COFFER LN 0.2 MI</li> </ol> <p>2002 COFFER LANE PLACERVILLE, CA 95667</p>	<p>APPROVED</p> <p><b>EL DORADO COUNTY PLANNING COMMISSION</b></p> <p>DATE <u>June 13, 2019</u></p> <p>BY <u>Tiffany Schmid</u></p> <p><b>EXECUTIVE SECRETARY</b></p>																												
<p>VICINITY MAP</p>	<p>SPECIAL INSPECTIONS</p>	<p>APPROVALS</p> <table border="1"> <thead> <tr> <th>APPROVED BY</th> <th>DATE</th> <th>TYPE</th> </tr> </thead> <tbody> <tr> <td>AT&amp;T:</td> <td></td> <td></td> </tr> <tr> <td>VEHICLE:</td> <td></td> <td></td> </tr> <tr> <td>R.F.:</td> <td></td> <td></td> </tr> <tr> <td>LEASING / LANDLORD:</td> <td></td> <td></td> </tr> <tr> <td>ZONING:</td> <td></td> <td></td> </tr> <tr> <td>CONSTRUCTION:</td> <td></td> <td></td> </tr> <tr> <td>POWER / TELCO:</td> <td></td> <td></td> </tr> <tr> <td>PG&amp;E:</td> <td></td> <td></td> </tr> </tbody> </table>	APPROVED BY	DATE	TYPE	AT&T:			VEHICLE:			R.F.:			LEASING / LANDLORD:			ZONING:			CONSTRUCTION:			POWER / TELCO:			PG&E:			<p>GENERAL CONTRACTOR NOTES</p> <p>DO NOT SCALE DRAWINGS</p> <p>THESE DRAWINGS ARE FORWARDED TO BE FULL SIZE AT 3/4" = 1'-0". CONTRACTOR SHALL VERIFY ALL PLANS AND LISTING DIMENSIONS AND LOCATIONS ON THE JOB-SITE AND IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.</p>	<p>Exhibit F</p>
APPROVED BY	DATE	TYPE																													
AT&T:																															
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<p>OCCUPANCY AND CONSTRUCTION TYPE</p> <p>OCCUPANCY: U (UNMANNED) CONSTRUCTION TYPE: U-8</p>	<p>DIGALERT</p> <p>800-227-2600 OUR 24 Hour Emergency Response</p>																														

**GENERAL CONSTRUCTION NOTES:**

1. PLANS ARE PROVIDED TO BE QUANTITATIVE ONLY. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE SURVIVING MATERIALS, COMPLETION, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTING AGENCIES AND AUTHORITIES PRIOR TO THE COMMENCEMENT OF WORK.
3. CONTRACTORS SHALL CONTACT THE CALIFORNIA STATE ELECTRICAL BOARD AT (916) 227-7000 FOR THE LATEST REGULATIONS, AS WELL AS LOCAL REGULATIONS AND ORDINANCES.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED WORK WITH THE ARCHITECT'S RECOMMENDATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL BOARD'S REGULATIONS, AS WELL AS LOCAL REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL VERIFY THE LATEST REGULATIONS, AS WELL AS LOCAL REGULATIONS AND ORDINANCES.
6. REPRESENTATIONS OF FIELD WORK SHALL BE MADE TO THE PLAN OF SURVEY. FIELD WORK SHALL NOT BE USED TO VERIFY OR CORRECT THE WORK OF ANY OTHER PROFESSIONAL ENGINEER OR ARCHITECT. THE CONTRACTOR SHALL VERIFY THE WORK OF ANY OTHER PROFESSIONAL ENGINEER OR ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
7. THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES ON THE SITE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND STRUCTURES PRIOR TO THE COMMENCEMENT OF WORK.
8. ALL EXISTING UTILITIES, STRUCTURES, AND OTHER CONDITIONS SHOWN ON THE PLAN HAVE BEEN VERIFIED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND STRUCTURES ON THE SITE.
9. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL BOARD'S REGULATIONS, AS WELL AS LOCAL REGULATIONS AND ORDINANCES.
10. CONTRACTORS SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICAL, PRIOR TO THE START OF CONSTRUCTION. ANY CONFLICTS OR INTERFERENCE WITH EXISTING UTILITIES SHALL BE REPORTED TO THE ARCHITECT / ENGINEER IMMEDIATELY.
11. ALL PROPOSED AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE PROTECTED BY CONSTRUCTION FROM TO BE PROTECTED FROM DAMAGE.
12. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL BOARD'S REGULATIONS, AS WELL AS LOCAL REGULATIONS AND ORDINANCES.
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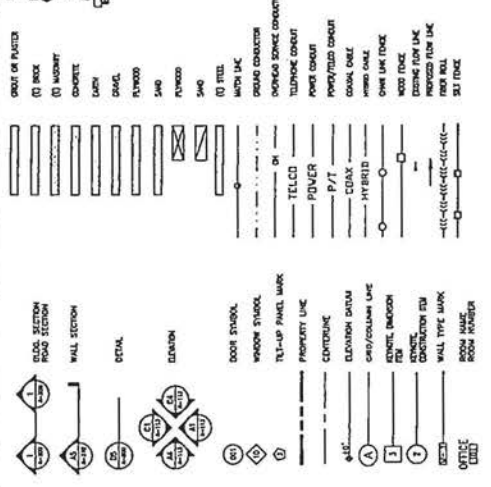
**APPLICABLE CODES, REGULATIONS AND STANDARDS:**

- CALIFORNIA ELECTRICAL BOARD (CEB) REGULATIONS FOR STRUCTURAL, CONCRETE, METAL, AND MECHANICAL WORK.
- CALIFORNIA ELECTRICAL BOARD (CEB) REGULATIONS FOR ELECTRICAL, COMMUNICATIONS, TELECOMMUNICATIONS, AND DATA NETWORKS.
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**ABBREVIATIONS**

ACR	ACCESSORY	ACR	ACCESSORY	ACR	ACCESSORY
ADD	ADDENDUM	ADD	ADDENDUM	ADD	ADDENDUM
AD	ADDITIONAL	AD	ADDITIONAL	AD	ADDITIONAL
ADJ	ADJUSTED	ADJ	ADJUSTED	ADJ	ADJUSTED
ADU	ADDITIONAL UNIT	ADU	ADDITIONAL UNIT	ADU	ADDITIONAL UNIT
ADW	ADDITIONAL WORK	ADW	ADDITIONAL WORK	ADW	ADDITIONAL WORK
ADY	ADDITIONAL YARD	ADY	ADDITIONAL YARD	ADY	ADDITIONAL YARD
ADZ	ADDITIONAL ZONE	ADZ	ADDITIONAL ZONE	ADZ	ADDITIONAL ZONE
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**SYMBOLS LEGEND**



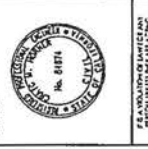
LOTUS  
2002 COFFER LANE  
PLACERVILLE, CA 95647

PREPARED FOR  
**at&t**  
3000 Camino Arroyo, #1010  
San Ramon, California 94583

**EPIC**  
WIRELESS GROUP LLC  
COMMUNITY + COMMERCIAL

AWL#160: CVM0160  
PROJECT#160: 13787444  
DRAWN BY: CES  
CHECKED BY: CES

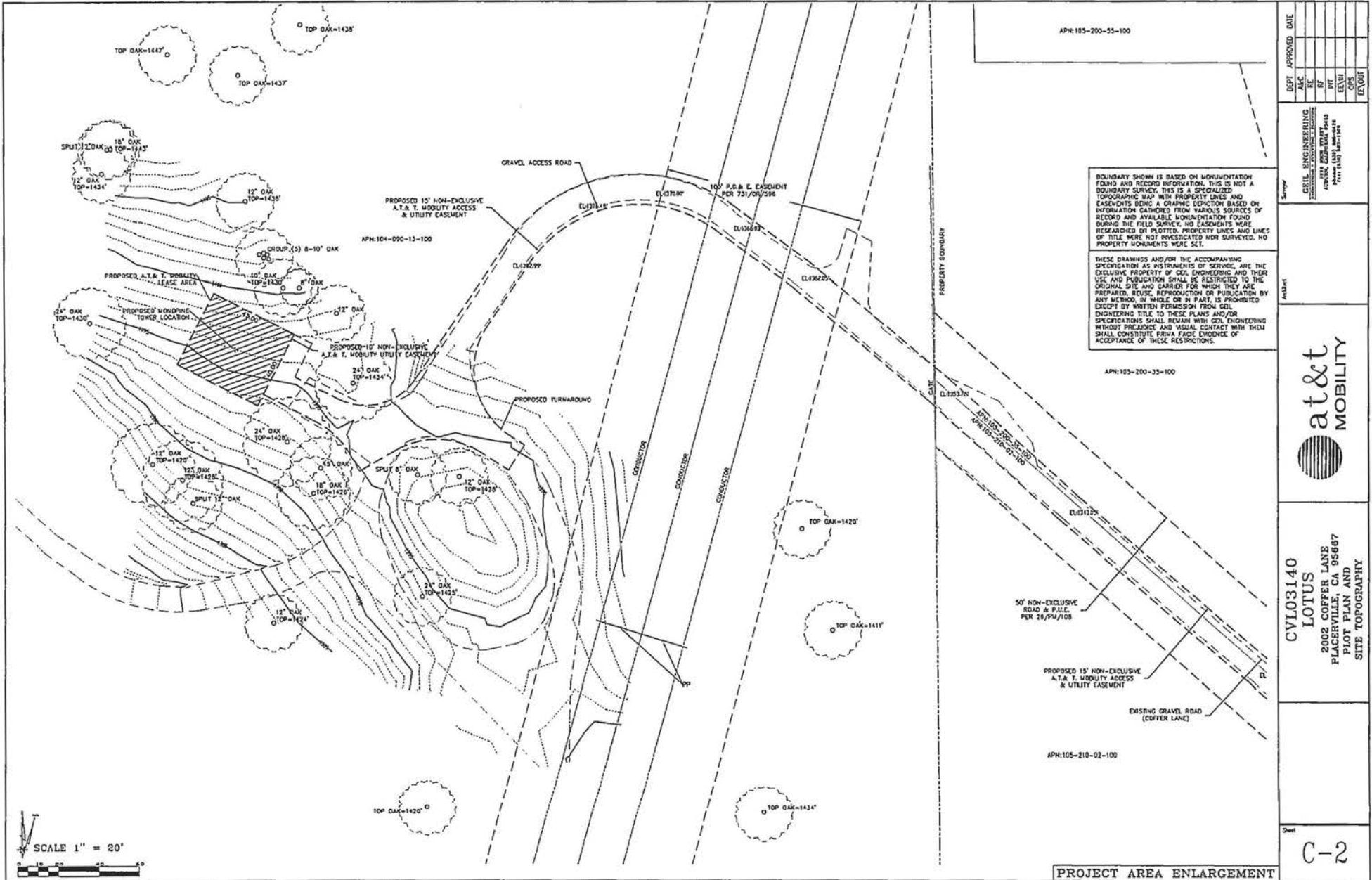
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REGISTERED ELECTRICAL ENGINEER  
ADAM J. CROGNONE  
No. 81878  
SACRAMENTO, CA 95821  
crognone@yahoo.com

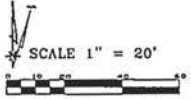
GENERAL NOTES  
SHEET NUMBER: **GN-1**





BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

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APH:105-200-55-100

APH:104-090-13-100

APH:103-200-35-100

50' NON-EXCLUSIVE ROAD & PILE PER 24/PM/108

PROPOSED 15' NON-EXCLUSIVE A.T.&T. MOBILITY ACCESS & UTILITY EASEMENT

APH:105-210-02-100

PROJECT AREA ENLARGEMENT

DEPT. APPROVED DATE	
AAC	
RE	
BY	
EVCH	
GPS	
EVOUT	

GCL ENGINEERING  
 10000 W. STATE ST. SUITE 100  
 PLACERVILLE, CA 95667  
 PHONE (209) 866-0414  
 FAX (209) 866-1044

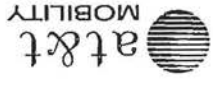
Scale  
 Project



CV103140  
 LOTUS  
 2002 COFFEY LANE  
 PLACERVILLE, CA 95667  
 PLOT PLAN AND  
 SITE TOPOGRAPHY

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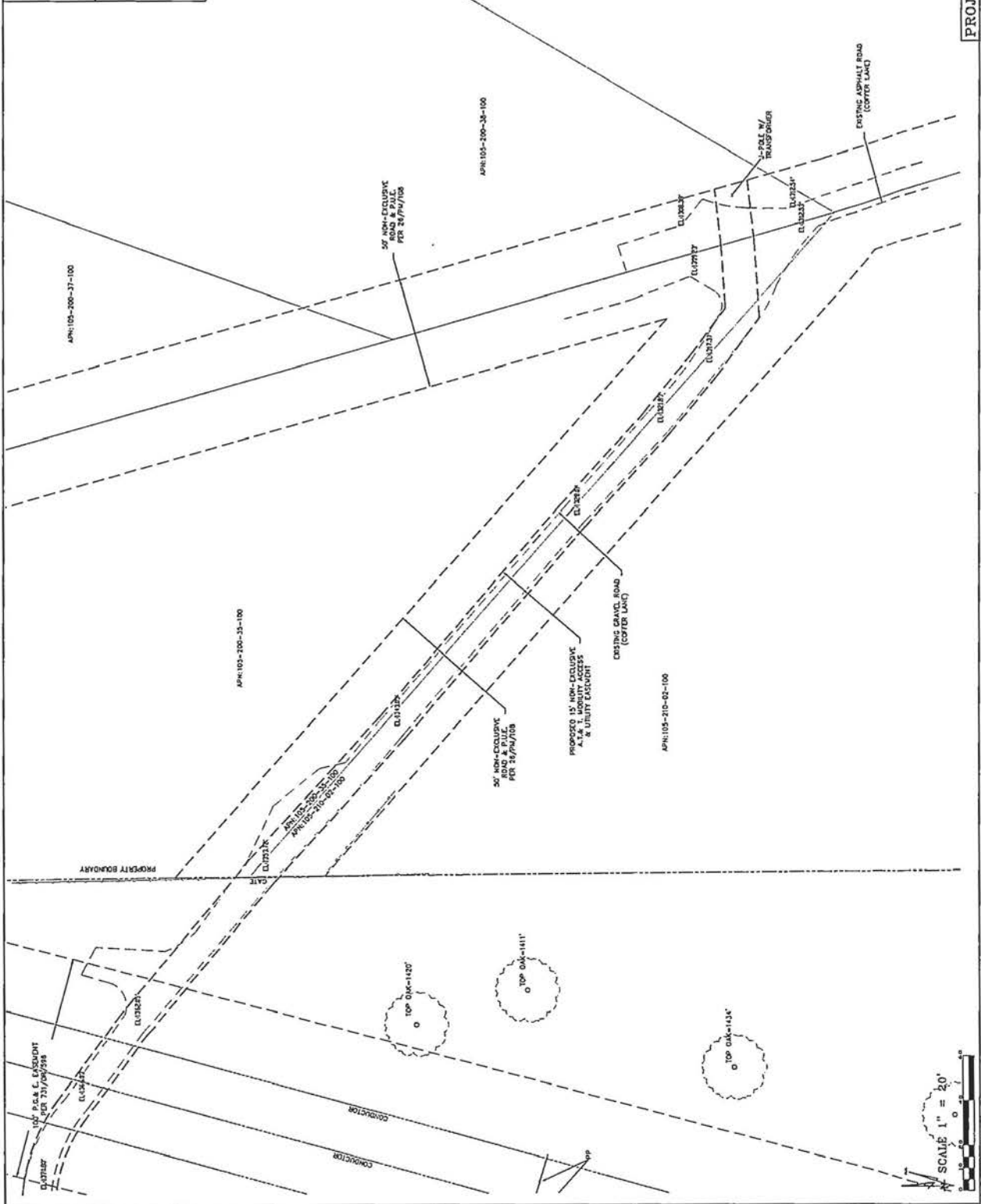
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 2002 COFFER LANE  
 PLACERVILLE, CA 95697  
 SITE TOPOGRAPHY  
 PLOT PLAN AND



CEIS ENGINEERING  
 1500 BROWN STREET  
 PLACERVILLE, CALIFORNIA 95697  
 Phone (530) 866-0424  
 Fax (530) 866-1848

DEPT. APPROVED DATE	
AKC	
RE	
RF	
RT	
EVN	
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ET/OUT	

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BEST MANAGEMENT PRACTICES "BMP" TABLE			
BEST MANAGEMENT PRACTICES	LOCATION	SCHEDULE IMPLEMENTATION	MAINTENANCE SCHEDULE
PRESERVING EXISTING VEGETATION	AROUND PERIMETER OF PROJECT SITE	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	EDUCATE EMPLOYEES AND SUBCONTRACTORS REGARDING IMPORTANCE OF MAINTAINING EXISTING VEGETATION TO PREVENT EROSION AND FILTER OUT SEDIMENT IN RUNOFF FROM DISTURBED AREAS ON THE CONSTRUCTION SITE. INSPECT SITE PERIMETER MONTHLY TO VERIFY THE OUTSIDE VEGETATION IS NOT DISTURBED.
PROTECT GRADED AREAS AND SLOPES FROM WASHOUT AND EROSION	THROUGHOUT PROJECT SITE	CONTINUOUS	INSPECT GRADED AREAS AND SLOPES ON AT LEAST A MONTHLY BASIS TO CHECK FOR EROSION. THE GRADE TRIBUTARY AREAS OR INSTALL SAND DICES AS NECESSARY TO PREVENT EROSION.
GRAVEL FILTER	ALONG FLOW LINES OF UNPAVED ROADWAYS WITHIN SITE	IN PLACE CONTINUOUSLY UNTIL ROADWAYS ARE PAVED	INSPECT AFTER EACH STORM. REMOVE ON-SITE SEDIMENT DEPOSITED BEHIND BERM OR BARRIER TO MAINTAIN EFFECTIVENESS.
BAG INLET FILTER	INLETS TO THE STORM DRAINAGE SYSTEM	CONTINUOUS UNTIL LANDSCAPING IS IN PLACE	INSPECT WEEKLY AND AFTER EACH STORM. REMOVE SEDIMENT AND DEBRIS BEFORE ACCUMULATION HAS REACHED ONE THIRD THE DEPTH OF THE BAG. REPAIR OR REPLACE INLET FILTER BAG AS SOON AS DAMAGE OCCURS.
FIBER ROLLS	SEE NOTE 3 OF EROSION & CONTROL NOTES	CONTINUOUS	INSPECT AFTER EACH STORM. REMOVE SEDIMENT DEPOSITED BEHIND FIBER ROLLS WHENEVER NECESSARY TO MAINTAIN EFFECTIVENESS.
HYDROSEEDING	3:1 SLOPES	IN PLACE DURING BY SEPT. 15	INSPECT SLOPES ON AT LEAST A MONTHLY BASIS TO CHECK FOR EROSION. IF EROSION IS NOTED, SPREAD STRAW MULCH OVER AFFECTED AREAS.
STABILIZED CONSTRUCTION ENTRANCE	ENTRANCES TO SITE FROM PUBLIC ROADWAYS	CONTINUOUS UNTIL ON-SITE ROADWAYS ARE PAVED	INSPECT ON A MONTHLY BASIS AND AFTER EACH RAINFALL. ADD AGGREGATE BASE MATERIAL, WHENEVER NECESSARY TO PREVENT SEDIMENT FROM BEING TRACKED INTO PUBLIC STREET.
WIND EROSION CONTROL PRACTICES	WHEREVER NECESSARY THROUGHOUT PROJECT SITE	CONTINUOUS UNTIL GRADING IS COMPLETED AND SOILS HAVE STABILIZED	INSPECT SITE DURING WINDY CONDITIONS TO IDENTIFY AREAS WHERE WIND AND EROSION IS OCCURRING AND ABATE EROSION AS NECESSARY.
GOOD HOUSEKEEPING MEASURES	THROUGHOUT PROJECT SITE	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A MONTHLY BASIS TO VERIFY GOOD HOUSEKEEPING PRACTICES ARE BEING IMPLEMENTED.
PROPER CONSTRUCTION MATERIAL STORAGE	DESIGNATED AREA	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A WEEKLY BASIS TO VERIFY THAT CONSTRUCTION MATERIALS ARE STORED IN A MANNER WHICH COULD NOT CAUSE STORM WATER POLLUTION.
PROPER CONSTRUCTION WASTE STORAGE AND DISPOSAL INCLUDING	DESIGNATED COLLECTION AREA AND CONTAINERS	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A WEEKLY BASIS TO ASSURE WASTE IS STORED PROPERLY AND DISPOSED OF AT LEGAL DISPOSAL SITE, DAILY.
CONCRETE SPILL CLEANUP PAINT & PAINTING SUPPLIES	MATERIAL HANDLING AREAS	IMMEDIATELY AT TIME OF SPILL	INSPECT MATERIAL HANDLING AREAS ON AT LEAST A MONTHLY BASIS TO VERIFY PROPER SPILL CLEANUP.
VEHICLE FUELING, MAINTENANCE & CLEANING	DESIGNATED AREA WITH SECONDARY CONTAINMENT	CONTINUOUS	KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ON SITE & INSPECT ON REGULAR SCHEDULE.
STREET AND STORM DRAINAGE FACILITY MAINTENANCE (DEFINITIONS)	STREETS AND STORM DRAINAGE FACILITIES	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	MAINTAIN STORM DRAINAGE FACILITIES AND PAVED STREETS CLEAR OF SEDIMENT AND DEBRIS.

1. NET SEASON: IN THE PERIOD BETWEEN OCTOBER 1 THROUGH APRIL 30. CONTRACTOR SHALL ALSO IMPLEMENT NET SEASON MEASURES IF NET WEATHER IS EXPECTED DURING THE NET SEASON

2. PHASES OF GRADING INITIAL: WHEN CLEARING AND GRUBBING ACTIVITIES OCCUR. RAINFALL: WHEN CUT AND FILL ACTIVITIES OCCUR AND THE SITE IMPROVEMENTS ARE CONSTRUCTED, INCLUDING UNDERGROUND PIPING, STREETS, SIDEWALKS, AND OTHER IMPROVEMENTS. WHEN FINAL ELEVATION IS SET, AND SITE IMPROVEMENTS ARE COMPLETED AND READY FOR CITY ACCEPTANCE.

**FIBER ROLL NOTES:**

- REPAIR OR REPLACE SPLIT, TORN UNRAVELING OR SLIPPING FIBER ROLLS. FIBER ROLLS TO BE STAKED 4" O.C. PARALLEL TO (3) CONTAINERS.
- INSPECT FIBER ROLLS WHEN RAIN IS FORECAST, DURING AND FOLLOWING RAIN EVENTS, AT LEAST DAILY DURING PROLONGED RAINFALL. FOR SPECIFIC MONITORING INTERVALS REFER TO THE CURRENT VERSION OF STORM WATER "BMP" MANUAL FOR DURING THE HIGH-RAINY SEASON.
- SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE DESIGNATED SEDIMENT STORAGE DEPTH, USUALLY ONE-HALF THE DISTANCE BETWEEN THE TOP OF THE FIBER ROLL AND THE ADJACENT GROUND SURFACE. SEDIMENT REMOVED DURING MAINTENANCE MAY BE INCORPORATED INTO THE EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.
- FILTER BARRIERS SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ABOVE THE EXPECTED FLOW PATH AND AS APPROVED BY THE LANDSCAPE INSPECTOR.

**CONSTRUCTION EROSION/SEDIMENTATION CONTROL PLAN NOTES:**

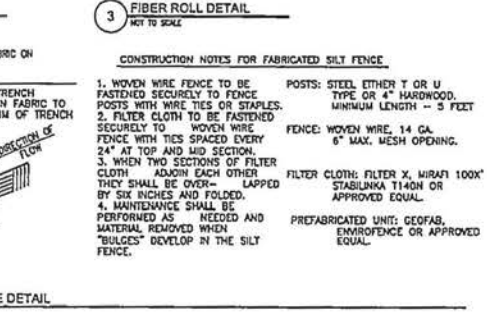
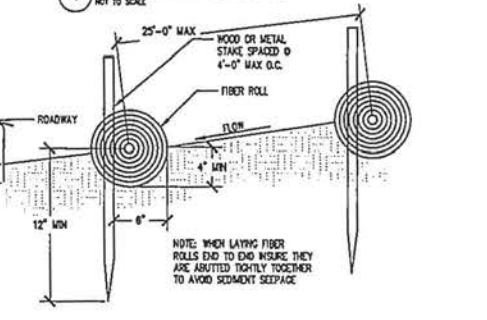
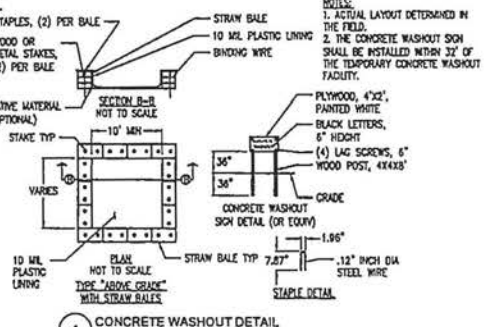
- THE CONTRACTOR SHALL FOLLOW TYPICAL GUIDELINES FOR GRADING, EROSION AND SEDIMENT CONTROL FOR THE MEASURES SHOWN OR STATED ON THESE PLANS.
- CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR THE WINTER MONTHS PRIOR TO OCTOBER 1.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BEFORE DURING AND AFTER ALL STORMS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. REFER TO CURRENT VERSION OF STORMWATER "BMP" MANUAL FOR SPECIFIC SCHEDULE PER SITE CONDITIONS.
- CONTRACTOR SHALL MAINTAIN A LOG AT THE SITE OF ALL INSPECTIONS OR MAINTENANCE OF BMPs, AS WELL AS ANY CORRECTIVE CHANGES TO THE BMPs OR EROSION AND SEDIMENT CONTROL PLAN.
- IN AREAS WHERE SOIL IS EXPOSED, PROMPT REPLANTING WITH NATIVE COMPATIBLE, DROUGHT-RESISTANT VEGETATION SHALL BE CONSIDERED. NO AREAS WILL BE LEFT EXPOSED OVER THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF CONSTRUCTION WHEN APPLICABLE FOR SITES NOT ACCESSIBLE BY CONVENTIONALLY PREPARED ACCESS. LOCATION OF THE ENTRANCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE. THE STABILIZED CONSTRUCTION ENTRANCE (WHEN APPLICABLE) SHALL REMAIN IN PLACE UNTIL THE CONSTRUCTION IS COMPLETE.
- ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEEP AT THE END OF EACH WORKING DAY OR AS NECESSARY.
- CONTRACTOR SHALL PLACE GRAVEL BAGS AROUND ALL PROPOSED DRAINAGE STRUCTURE OPENINGS IMMEDIATELY AFTER THE STRUCTURE OPENING IS CONSTRUCTED. THESE GRAVEL BAGS SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS OR WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASKET.
- CONTRACTOR SHALL IMPLEMENT HOUSEKEEPING PRACTICES AS FOLLOWS:

- SOLID WASTE MANAGEMENT:** PROVIDE DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS. ARRANGE FOR REGULAR REMOVAL AND DISPOSAL. CLEAR SITE OF TRASH INCLUDING ORGANIC DEBRIS, PACKAGING MATERIALS, SCRAP OR SURPLUS BUILDING MATERIALS AND DOMESTIC WASTE DAILY.
- MATERIAL DELIVERY AND STORAGE:** PROVIDE A DESIGNATED MATERIAL STORAGE AREA WITH SECONDARY CONTAINMENT SUCH AS BERMS, STORM MATERIAL ON PALETTES AND PROVIDE COVERING FOR SOLUBLE MATERIALS. RELOCATE STORAGE AREA INTO BUILDING SHELL, WHEN POSSIBLE. INSPECT AREA DAILY.
- CONCRETE WASTE:** PROVIDE A DESIGNATED AREA FOR A TEMPORARY PIT TO BE USED FOR CONCRETE TRUCK WASH-OUT. DISPOSE OF HARDENED CONCRETE OFFSITE. AT NO TIME SHALL A CONCRETE TRUCK DUMP ITS WASTE AND CLEAN ITS TRUCK INTO THE CITY STORM DRAINAGE VIA CURBS AND GUTTER. CLEAN DAILY TO CONTROL RUNOFF, AND WEEKLY FOR REMOVAL OF HARDENED CONCRETE.
- PAINT AND PAINTING SUPPLIES:** PROVIDE INSTRUCTION TO EMPLOYEES AND SUBCONTRACTORS REGARDING REDUCTION OF POLLUTANTS INCLUDING MATERIAL STORAGE, USE, AND CLEAN UP. INSPECT SITE DAILY FOR EVIDENCE OF IMPROPER DISPOSAL.
- VEHICLE FUELING, MAINTENANCE AND CLEANING:** PROVIDE A DESIGNATED FUELING AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. DO NOT ALLOW FUEL OR FUELING OILS TO BE DISPOSED ON SITE. RESTRICT ON-SITE MAINTENANCE AND CLEANING OF EQUIPMENT TO A MINIMUM. INSPECT AREA DAILY.
- HAZARDOUS WASTE MANAGEMENT:** PREVENT THE DISCHARGE OF POLLUTANTS FROM HAZARDOUS WASTES TO THE DRAINAGE SYSTEM THROUGH PROPER MATERIAL USE, WASTE DISPOSAL AND TRAINING OF EMPLOYEES. HAZARDOUS WASTE PRODUCTS COMMONLY FOUND ON-SITE INCLUDE BUT ARE NOT LIMITED TO PAINTS & SOLVENTS, PETROLEUM PRODUCTS, FERTILIZERS, HERBICIDES & PESTICIDES, SOIL STABILIZATION PRODUCTS, ASPHALT PRODUCTS AND CONCRETE CURING PRODUCTS.

- USE "BMPs" AT ALL PHASES OF CONSTRUCTION.
- GRAVEL BAGS WITH FIBER ROLLS OR BAG INLET FILTERS TO BE USED FOR INLET PROTECTION FROM CONSTRUCTION CONTAMINANTS. CONTRACTOR TO FIELD IDENTIFY ALL CONDITIONS WHERE THIS MAY APPLY AND MAINTAIN DURING THE COURSE OF CONSTRUCTION. THIS SHALL APPLY TO THE LOCAL SITE ACTIVITY AS WELL AS ANY AREA TRAVELED EXTERNALLY TO THE POINT OF SITE ACCESS AND ONTO THE PUBLIC RIGHT-OF-WAY. NO CONSTRUCTION DEBRIS MAY ENTER ANY STORM WATER DRAIN AT ANY TIME. THE CONTRACTOR SHALL IMPLEMENT MEASURES TO MONITOR THIS AT ALL TIMES DURING THE CONSTRUCTION PHASE.
- ANY ALL STORED MATERIALS, INCLUDING BUT NOT LIMITED TO, DECONTAMINATED SOIL, IMPORTED SAND, SAND OR GRAVEL, PAINT, CONCRETE, WOOD, METAL, OR CONTAMINATED WATER SHALL BE STORED PROPERLY TO INSURE NO DISCHARGE OF CONTAMINANTS.
- REMOVE DRIFT DEBRIS AND WEEDS FROM PUBLIC SIDE WALK AREAS AND STORM DRAIN SYSTEMS AND ANY CONSTRUCTION MATERIALS OR DEBRIS TO AN APPROVED LOCATION AS ON A DAILY BASIS (OR AS DIRECTED BY THE CITY ENGINEER). A CONCRETE WASHOUT SHALL BE ON-SITE AT ALL TIMES. CONTRACTOR TO FIELD VERIFY LOCATION, AND BEST METHOD TO PREVENT SPILLS AND DISCHARGE OF CONCRETE / WATER CONTAMINANTS.
- CONTRACTOR TO FIELD IDENTIFY "BMPs" (BEST MANAGEMENT PRACTICES) PER SITE CONDITIONS, AND REFER TO CURRENT VERSION OF STORMWATER "BMP" MANUAL FOR SPECIFIC SCHEDULES OR DETAILS NOT SPECIFIED IN THIS PLAN.

**STORM WATER QUALITY NOTES:**

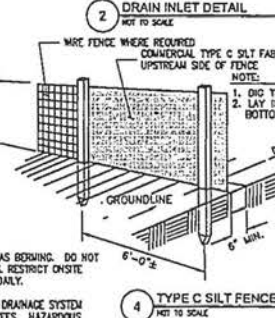
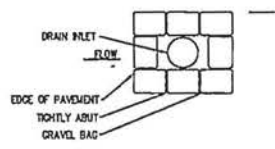
- CONTRACTOR SHALL PROVIDE DRAIN INLET PROTECTION FOR ALL CATCH BASINS LOCATED IN THE VICINITY OF WORK. THIS INCLUDES ANY CATCH BASINS IN THE PUBLIC RIGHT-OF-WAY, AS WELL AS ANY ON-SITE CATCH BASINS ON PRIVATE PROPERTY.
- CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE/ACCESS FROM PROJECT SITE TO PREVENT TRACK-OUT OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY FROM CONSTRUCTION VEHICLES.
- CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT DEPOSIT SEDIMENT ONTO THE PUBLIC ROADWAY, SIDEWALKS AND OUTLETS. ALL SEDIMENT AND CONSTRUCTION DEBRIS MUST BE REMOVED BY THE END OF EACH WORKING DAY.
- CONTRACTOR SHALL USE STREET SWEEPING OR OTHER DRY SWEEPING METHOD, AS NECESSARY, TO REMOVE CONSTRUCTION OR DECONTAMINATION-RELATED SEDIMENT FROM PUBLIC SIDEWALKS, OUTLETS AND ROADWAY.
- CONTRACTOR SHALL SCHEDULE WORK FOR DRY-WEATHER DAYS WHEN NO RAIN IS IN THE IMMEDIATE FORECAST.
- CONTRACTOR SHALL INSTALL AN APPROVED WASH-OUT STRUCTURE AT THE CONSTRUCTION SITE. ALL CONCRETE, PAINT, STUCCO AND OTHER LIQUIDS WILL BE WASHED OUT IN THIS AREA.
- CONTRACTOR SHALL PROVIDE DUST CONTROL TO PREVENT THE MASSAGE OF BLOWING DUST WITHOUT CAUSING SEDIMENT, DEBRIS, OR LITTER TO ENTER THE ANY STORM DRAIN SYSTEM.
- CONTRACTOR SHALL INSTALL ANY OTHER BMPs AS NECESSARY TO CONTROL THE DISCHARGE OF POLLUTANTS FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION AND ADHERENCE TO THE LOCAL REQUIREMENTS.



SEEDING MAY BE USED ONLY BETWEEN APRIL 1 AND JUNE 30, AND SEPTEMBER 1 AND OCTOBER 30.

NAME	SEEDING MIXTURES		
	PROPORTIONS BY WEIGHT	% PURITY	% GERMINATION
REDTOP (ACROSTIS ALBA)	10%	92	90
ANNUAL RYE (LOLIUM MULTIFLORUM)	40%	98	90
CHEMISERS FESCUE (FESTUCA RUBRA COMPOSITA)	40%	97	80
WHITE DUTCH CLOVER (TRIFOLIUM REPENS)	40%	96	90

TO PROVIDE TEMPORARY SOIL STABILIZATION BY PLANTING GRASSES AND LEGUMES TO AREAS THAT WOULD REMAIN BARE FOR MORE THAN 7 DAYS WHERE PERMANENT COVER IS NOT NECESSARY OR APPROPRIATE.



Lotus  
2002 COFFER LANE  
PLACERVILLE, CA 95667

PREPARED FOR  
at&t  
2000 Camino Ramon, #4500 N  
San Ramon, California 94583

EPIC  
WIRELESS GROUP LLC  
Creating a Wireless World

AT&T SITE NO: CVL03140  
PROJECT NO: 1378744  
DRAWN BY: CES  
CHECKED BY: CES

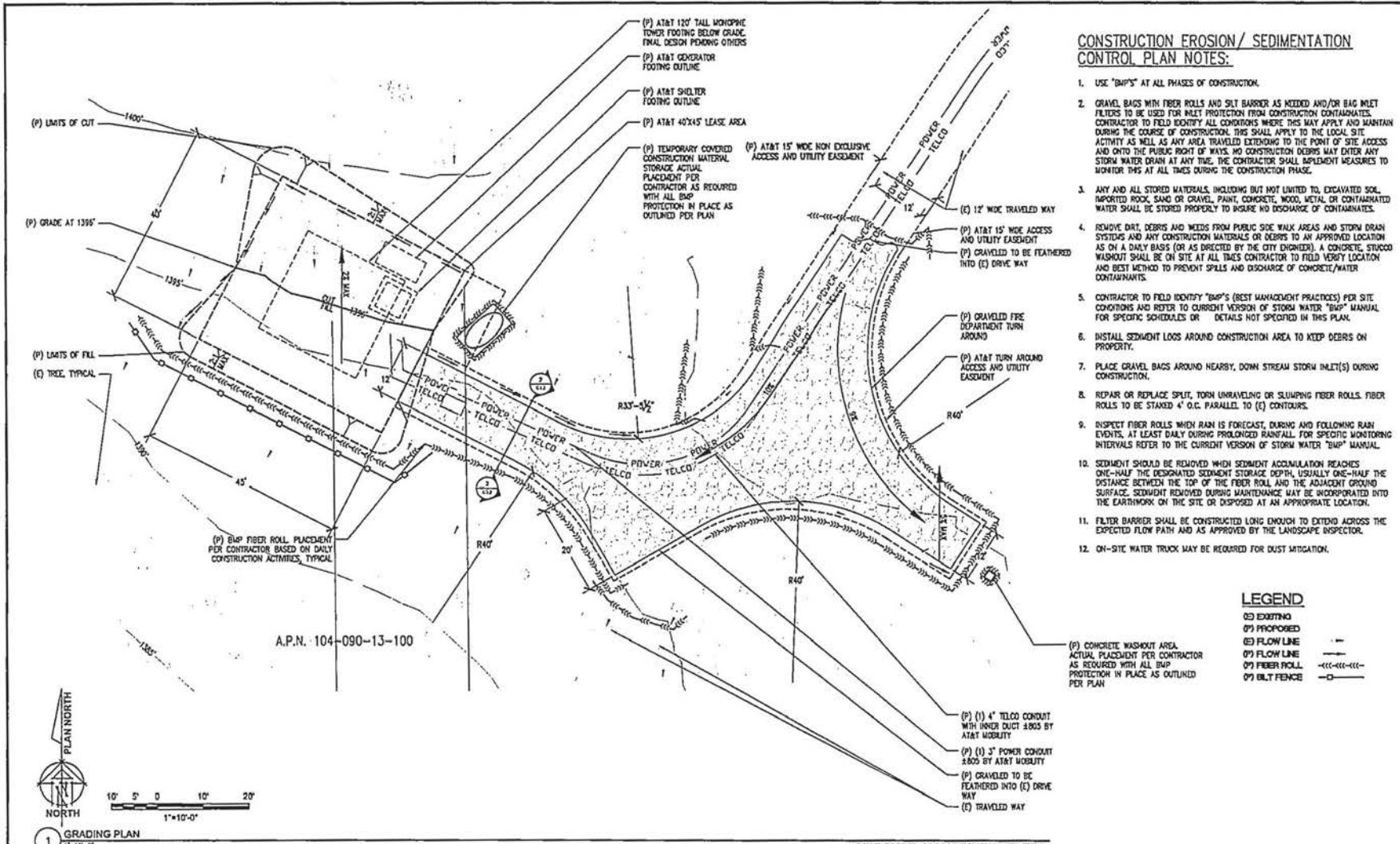
REV	DATE	DESCRIPTION
0	12/19/14	ISS FOR
1	12/19/14	ISS FOR (REVISED)

Professional Engineer  
No. 61474  
State of California

IS A VIOLATION OF LAW AND THE USER SHALL BE PROSECUTED UNDER THE PROVISIONS OF THE CALIFORNIA PENAL CODE.

Engineer  
ADAPTIVE RE-USE ENGINEERING  
Craig Homer, PE 61474  
214-407-3184  
3112 LEATHA WAY  
SACRAMENTO, CA 95821  
craig@homer@yahoo.com

SHEET TITLE:  
EROSION CONTROL NOTES  
SHEET NUMBER:  
C-3.1



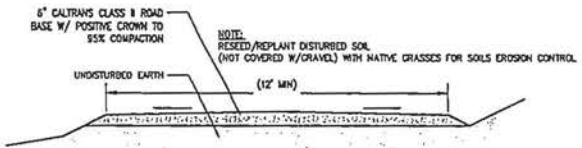
**CONSTRUCTION EROSION / SEDIMENTATION CONTROL PLAN NOTES:**

1. USE "BMP'S" AT ALL PHASES OF CONSTRUCTION.
2. GRAVEL BAGS WITH FIBER ROLLS AND SILT BARRIER AS NEEDED AND/OR BAG INLET FILTERS TO BE USED FOR INLET PROTECTION FROM CONSTRUCTION CONTAMINATES. CONTRACTOR TO FIELD IDENTIFY ALL CONDITIONS WHERE THIS MAY APPLY AND MAINTAIN DURING THE COURSE OF CONSTRUCTION. THIS SHALL APPLY TO THE LOCAL SITE ACTIVITY AS WELL AS ANY AREA TRAVELED EXTENDING TO THE POINT OF SITE ACCESS AND ONTO THE PUBLIC RIGHT OF WAY. NO CONSTRUCTION DEBRIS MAY ENTER ANY STORM WATER DRAIN AT ANY TIME. THE CONTRACTOR SHALL IMPLEMENT MEASURES TO MONITOR THIS AT ALL TIMES DURING THE CONSTRUCTION PHASE.
3. ANY AND ALL STORED MATERIALS, INCLUDING BUT NOT LIMITED TO, EXCAVATED SOIL, IMPORTED ROCK, SAND OR GRAVEL, PAINT, CONCRETE, WOOD, METAL OR CONTAMINATED WATER SHALL BE STORED PROPERLY TO INSURE NO DISCHARGE OF CONTAMINATES.
4. REMOVE DIRT, DEBRIS AND WEEDS FROM PUBLIC SIDE WALK AREAS AND STORM DRAIN SYSTEMS AND ANY CONSTRUCTION MATERIALS OR DEBRIS TO AN APPROVED LOCATION AS ON A DAILY BASIS (OR AS DIRECTED BY THE CITY ENGINEER). A CONCRETE, STUCCO WASHOUT SHALL BE ON SITE AT ALL TIMES. CONTRACTOR TO FIELD VERIFY LOCATION AND BEST METHOD TO PREVENT SPILLS AND DISCHARGE OF CONCRETE/WATER CONTAMINANTS.
5. CONTRACTOR TO FIELD IDENTIFY "BMP'S" (BEST MANAGEMENT PRACTICES) PER SITE CONDITIONS AND REFER TO CURRENT VERSION OF STORM WATER "BMP" MANUAL FOR SPECIFIC SCHEDULES OR DETAILS NOT SPECIFIED IN THIS PLAN.
6. INSTALL SEDIMENT LOSS AROUND CONSTRUCTION AREA TO KEEP DEBRIS ON PROPERTY.
7. PLACE GRAVEL BAGS AROUND NEARBY, DOWN STREAM STORM INLET(S) DURING CONSTRUCTION.
8. REPAIR OR REPLACE SPLIT, TORN UNWRAPPING OR SLIPPING FIBER ROLLS. FIBER ROLLS TO BE STAKED 4' O.C. PARALLEL TO (E) CONTOURS.
9. INSPECT FIBER ROLLS WHEN RAIN IS FORECAST, DURING AND FOLLOWING RAIN EVENTS, AT LEAST DAILY DURING PROLONGED RAINFALL. FOR SPECIFIC MONITORING INTERVALS REFER TO THE CURRENT VERSION OF STORM WATER "BMP" MANUAL.
10. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE DESIGNATED SEDIMENT STORAGE DEPTH, USUALLY ONE-HALF THE DISTANCE BETWEEN THE TOP OF THE FIBER ROLL AND THE ADJACENT GROUND SURFACE. SEDIMENT REMOVED DURING MAINTENANCE MAY BE INCORPORATED INTO THE EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.
11. FILTER BARRIER SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH AND AS APPROVED BY THE LANDSCAPE INSPECTOR.
12. ON-SITE WATER TRUCK MAY BE REQUIRED FOR DUST MITIGATION.

**LEGEND**

- (D) EXISTING
- (P) PROPOSED
- (E) FLOW LINE
- (F) FLOW LINE
- (F) FIBER ROLL
- (F) SILT FENCE

**SITE TYPE: MONOPINE/SHELTER**



**2 ACCESS ROAD DETAIL**  
NOT TO SCALE

- NOTES**
1. DISTURBED "ACTIVE AREAS" FOR ACCESS IMPROVEMENT AREA AND SITE CONSTRUCTION AT SITE LOCATION= 6572 SQ FT ( 20000 SQ FT)
  2. TOTAL VOLUME OF GRADED MATERIAL = 108 CU YARDS ( 250 CU YARDS)
  3. TOTAL CUT FOR SITE DEVELOPMENT= 68 CU YARDS
  4. TOTAL FILL FOR SITE DEVELOPMENT = 50 CU YARDS
  5. VOLUMES OF SOIL TO BE EXCAVATED FOR ALL FOOTINGS IS ESTIMATED TO BE APPROXIMATELY 70 CUBIC YARDS
  6. TOTAL IMPORT IS = 0 TOTAL EXPORT = 0
  7. TOTAL SPILLS= 68 CU YARDS AND SHALL BE EVENLY SPREAD AROUND FOUNDATIONS TO DIVERGENT WATER AWAY FROM STRUCTURES AND OR EVENLY SPREAD ON SITE IN A MANNER AS NOT TO DISRUPT EXISTING FLOW PATTERNS.
  8. MAX SLOPE NOT TO EXCEED 2:1 AND MAX HEIGHT OF CUT OR FILL SLOPE IS 4:5'

**TRENCHING NOTES**

1. TOTAL TRENCHING LENGTH FOR UNDER GROUND UTILITIES IS 800'. TOTAL CUBIC YARD OF MATERIAL REMOVED AND REPLACED FOR TRENCHING IS 104 CUBIC YARDS.

Revised For:  
**LOTUS**  
2002 COFFER LANE  
PLACERVILLE, CA 95667

PREPARED FOR  
**at&t**  
3400 Corning Parkway, 4th Floor  
San Ramon, California 94583

**EPIC**  
WIRELESS GROUP LLC  
Creating a Wireless World

AT&T SITE NO: CVL03140  
PROJECT NO: 1378744  
DRAWN BY: CES  
CHECKED BY: CES

REV	DATE	DESCRIPTION
0	11/27/18	ISSUE
1	12/19/18	ISSUE
2	12/19/18	ISSUE
3	12/19/18	ISSUE
4	12/19/18	ISSUE
5	12/19/18	ISSUE
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17	12/19/18	ISSUE
18	12/19/18	ISSUE
19	12/19/18	ISSUE
20	12/19/18	ISSUE

License:  
**PROFESSIONAL ENGINEER**  
No. 81674  
STATE OF CALIFORNIA  
P.E. A. VANDERKAM, LICENSE NO. 81674, REGISTERED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER AS A MEMBER OF THE FIRM.

Engineer:  
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craig@amer@yahoo.com

SHEET TITLE:  
**GRADING PLAN AND DETAILS**

SHEET NUMBER:  
**C-3.2**

LOTUS  
 2022 COFFER LANE  
 PLACERVILLE, CA 95667

PREPARED FOR  
**at&t**  
 2400 Corcoran Square, Suite 100  
 San Ramon, California 94583

**EPIC**  
 WHITELESS GROUP LLC  
 10000 S. UNIVERSITY AVENUE

PLAN/SHEET NO.: CV103140  
 PROJECT NO.: 13789844  
 DRAWN BY: CES  
 CHECKED BY: CES

NO.	DATE	DESCRIPTION
1	10/18/13	ISSUED FOR PERMITS
2	10/18/13	ISSUED FOR PERMITS
3	10/18/13	ISSUED FOR PERMITS
4	10/18/13	ISSUED FOR PERMITS
5	10/18/13	ISSUED FOR PERMITS
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10	10/18/13	ISSUED FOR PERMITS

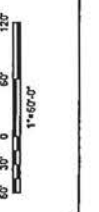
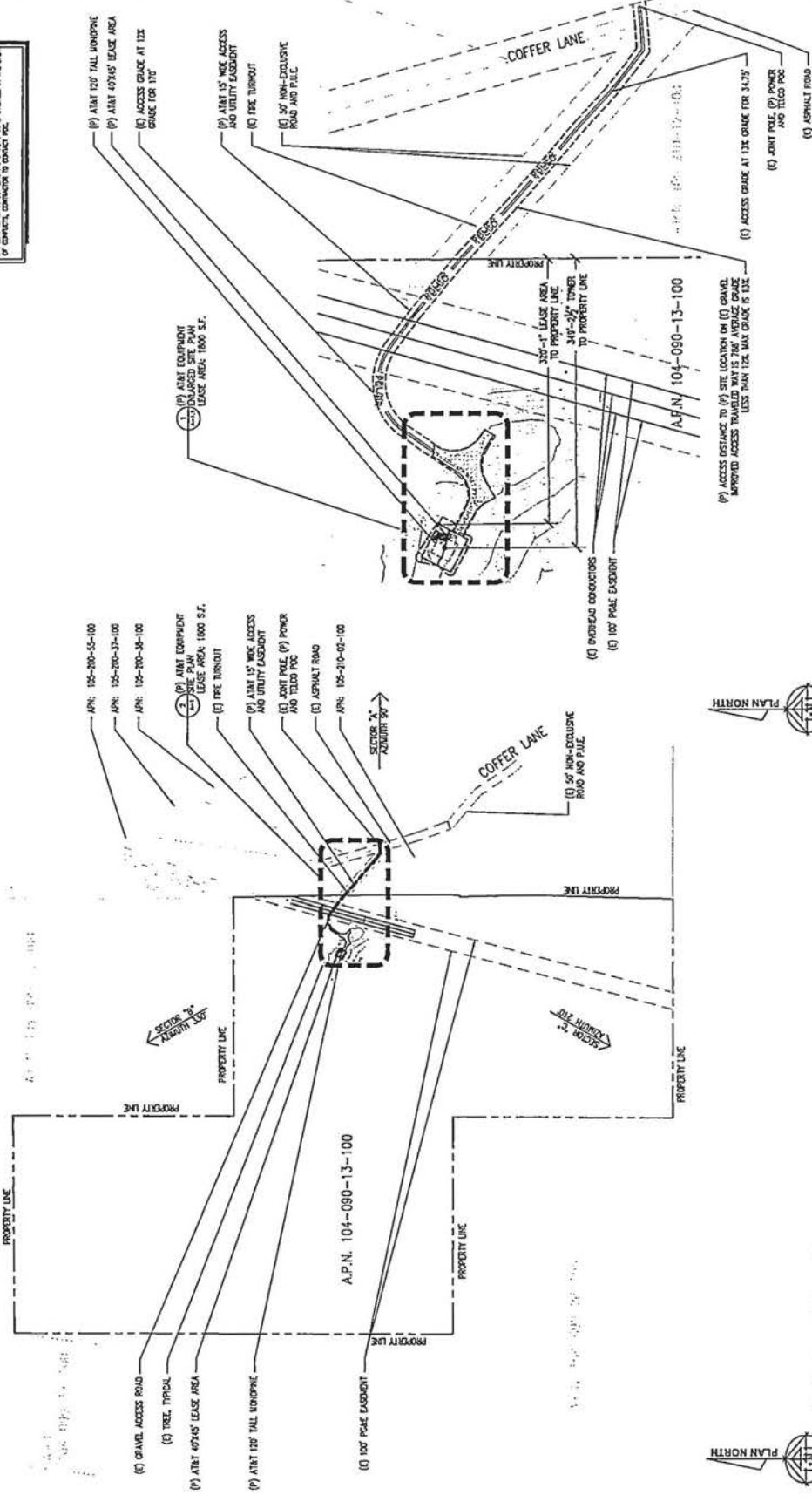


ENGINEER:  
**ADAPTIVE BEUSE**  
**ENGINEERING**  
 2144 DODD STREET  
 SACRAMENTO, CA 95821  
 craig@adaptivebeuse.com

SHEET TITLE:  
**OVERALL SITE PLAN**  
**AND SITE PLAN**  
 SHEET NUMBER:  
**A-1**

**THIS IS NOT A SITE SURVEY**  
 ALL PROPERTY BOUNDARIES, DIMENSIONS OF THE A.P.N.'S AND THE LOCATION OF THE MONOPINE/SHELTER SHALL BE AS SHOWN ON THE PERMITS AND ALL ELECTRICAL DRAWINGS AND ARE INSTRUMENTAL.

**NOTES:**  
 1. NO CHANGE OR REVISIONS TO THE CONDUCTOR SHALL OCCUR WITHIN THE PERMITS EXCEPT AS NOTED BY THE PERMITS APPROVAL.  
 2. PERMITS TO CONSTRUCTION SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.



2 SITE PLAN  
 1" = 60'-0"

1 OVERALL SITE PLAN  
 1" = 300'-0"

SITE TYPE: MONOPINE/SHELTER





LOTUS  
2002 COFFER LANE  
PLACERVILLE, CA 95667

PREPARED FOR  
**at&t**  
2400 COMMUNICATIONS, WISCONSIN  
SAN FRANCISCO, CALIFORNIA 94111

**EPIC**  
WIRELESS GROUP, LLC  
WIRELESS & NETWORKS

AAA SITE NO: CV03140  
PROJECT NO: 1378144  
DRAWN BY: CES  
CHECKED BY: CES

1	DATE	DESCRIPTION
2	11/11/04	ISSUED FOR PERMITS
3	12/16/04	FOR REVIEW
4	01/11/05	FOR REVIEW
5	01/11/05	FOR REVIEW
6	01/11/05	FOR REVIEW
7	01/11/05	FOR REVIEW
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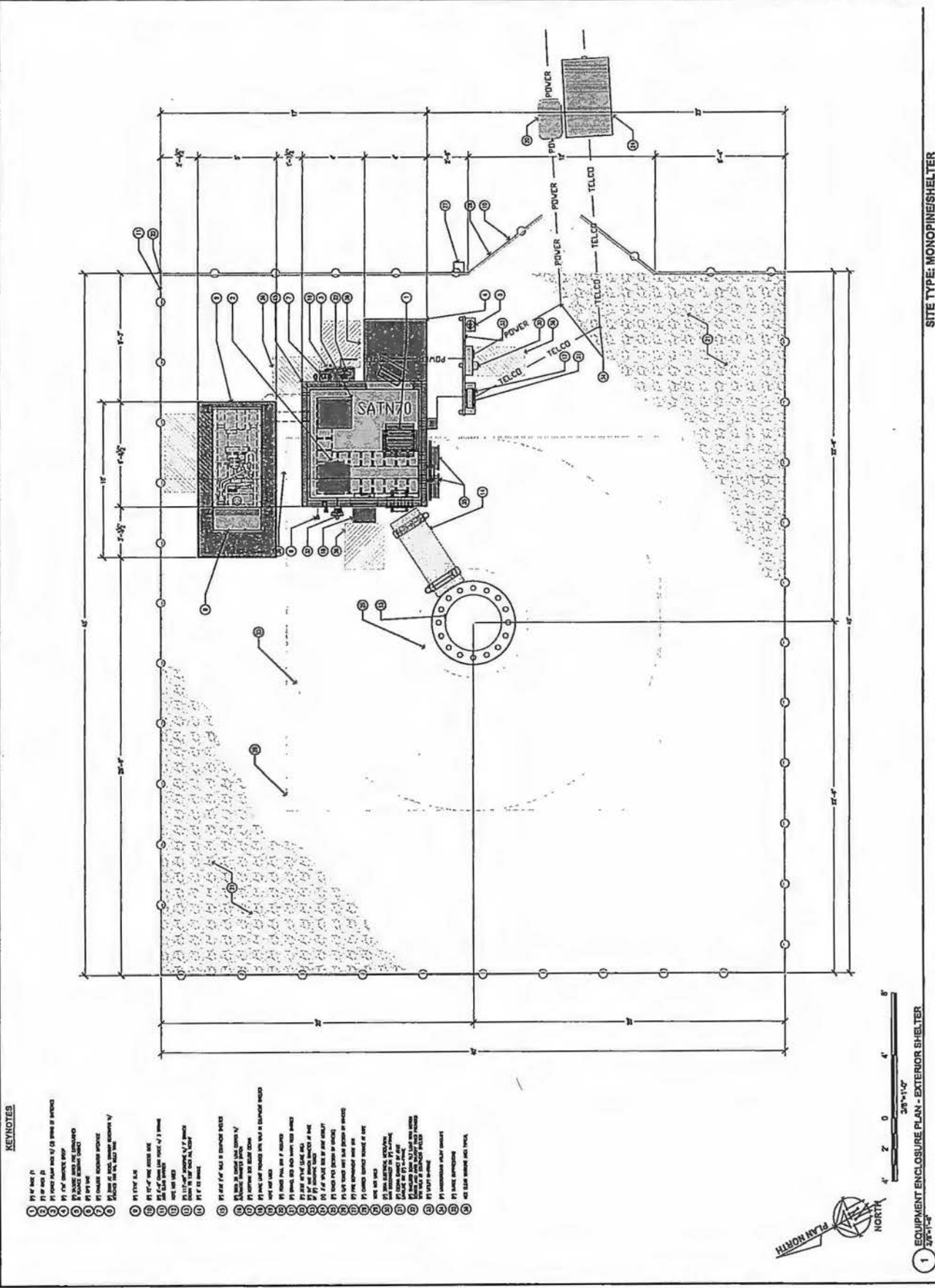


DESIGNED BY:  
DAVID A. BELL  
REGISTERED PROFESSIONAL ENGINEER  
NO. 81914  
STATE OF CALIFORNIA

ENGINEER:  
**ADAPTIVE BEUSE**  
ENGINEERING  
6069 HOMER, PE84074  
214-407-3184  
3112 LEATHA WAY  
SACRAMENTO, CA 95821  
adbeuse@earthlink.net

SHEET TITLE:  
EQUIPMENT AREA  
PLAN

SHEET NUMBER:  
**A-2**



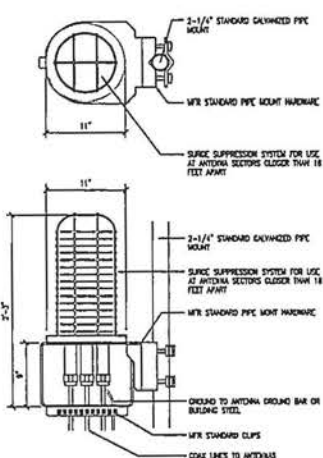
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- 1) ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE
  - 2) ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE
  - 3) ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE
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3/8" = 1'-0"  
0 4' 8'  
PLAN NORTH  
NORTH

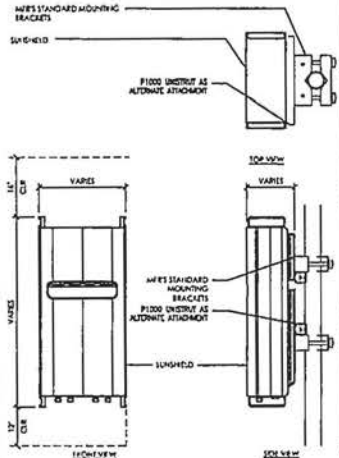
1 EQUIPMENT ENCLOSURE PLAN - EXTERIOR SHELTER  
3/8" = 1'-0"

SITE TYPE: MONOPINE SHELTER

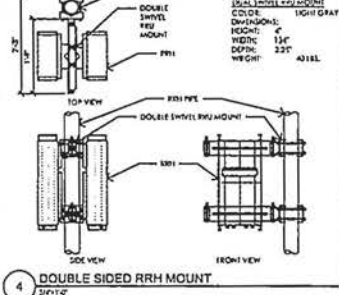
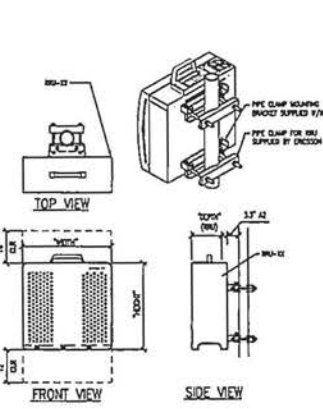
START: DC-66-60-18-DC &  
DC-18-60-60-DC SURGE SUPPRESSION  
SOLUTION  
COLOR: BLACK/BLACK  
DIMENSIONS: 11" DIA X 21" TALL W/ 6" BASE  
WEIGHT: 4/- 30 LBS. (INCLUDING MOUNTING HARDWARE)



1 DC SURGE SUPPRESSION (SQUID)  
1 1/2" x 1'-0"



2 TYPICAL RRU MOUNTING  
1 1/2" x 1'-0"



TYPE	HEIGHT	WIDTH	DEPTH	WEIGHT
RRUS-11 E	19.7"	17"	7.2"	55 LBS
RRUS-12	20.4"	18.5"	7.5"	57.5 LBS
RRUS-C2	23.4"	18.5"	7.5"	53 LBS
RRUS-4478 B14	18.1"	13.4"	8.26"	59.4 LBS
RRUS-4478 B5	16.5"	13.4"	7.7"	59.9 LBS
RRUS-4415 B25	14.96"	13.19"	8.39"	46 LBS
RRUS-4415 B21	14.96"	13.19"	8.39"	45 LBS
RRUS-4426 B44	14.96"	13.19"	8.39"	46 LBS
RRUS-4449 B22	28"	15"	10"	85 LBS
RRUS-6040 B2/64	28"	15"	10"	85 LBS
RRUS-32 B30	26.7"	12.1"	6.7"	46 LBS

3 ERICSSON RRUS- REMOTE RADIO UNIT  
1 1/2" x 1'-0"

ANTENNA = QUARTZ DSAS8-3  
WIND AREA = 8 SQFT.  
WEIGHT = 65 LBS  
DIMOSGS = 72" (6) x 12" (6) x 8.4" (3)

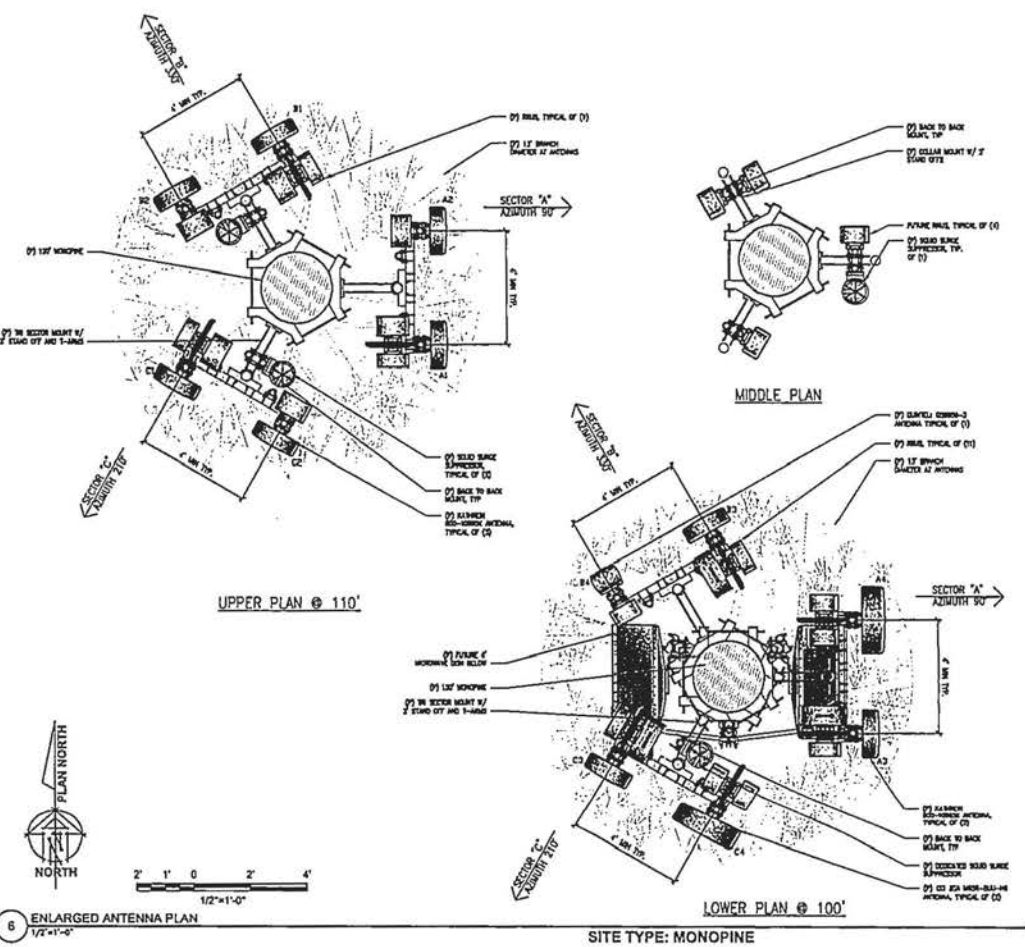
ANTENNA = RADWEN 800-1000K  
WIND AREA = 10.8 SQFT.  
WEIGHT = 108 LBS  
DIMOSGS = 72" (6) x 20" (6) x 6.5" (3)

ANTENNA = CD 85A WSA-B33-H8  
WIND AREA = 18 SQFT.  
WEIGHT = 101 LBS  
DIMOSGS = 72" (6) x 28.5" (6) x 6.7" (3)

5 ANTENNA SPEC  
3/4" x 1'-0"

SECTOR	ANTENNA MODEL NO.	TECHNOLOGY	AZIMUTH	RAIS CENTER	RRU	RFLXOR	TRK LGTH	CSK LGTH	TRK NO.	
S E C T O R A	A1	800-19945K	700/PCS1	90°	E 110°-0'	CD RRUS	N/A	E 140'	E N/A	TRUNK 1
	A2	800-19945K	829/AV2	90°	E 110°-0'	CD RRUS	N/A	E 140'	E N/A	TRUNK 1
	A3	800-19945K	814/PCS2	90°	E 100°-0'	CD RRUS	N/A	E 120'	E N/A	TRUNK 1
	A4	CD 85A WSA-B33-H8	FULL-SPLIT (CEAS)	90°	E 100°-0'	CD RRUS	N/A	E 120'	E N/A	TRUNK 2
S E C T O R B	B1	800-19945K	700/PCS1	330°	E 110°-0'	CD RRUS	N/A	E 140'	E N/A	TRUNK 2
	B2	800-19945K	829/AV2	330°	E 110°-0'	CD RRUS	N/A	E 140'	E N/A	TRUNK 2
	B3	800-19945K	814/PCS2	330°	E 100°-0'	CD RRUS	N/A	E 120'	E N/A	TRUNK 2
	B4	054654-3	FULL	330°	E 100°-0'	CD RRUS	N/A	E 120'	E N/A	TRUNK 2
S E C T O R C	C1	800-19945K	700/PCS1	210°	E 110°-0'	CD RRUS	N/A	E 140'	E N/A	TRUNK 4
	C2	800-19945K	829/AV2	210°	E 110°-0'	CD RRUS	N/A	E 140'	E N/A	TRUNK 4
	C3	800-19945K	814/PCS2	210°	E 100°-0'	CD RRUS	N/A	E 120'	E N/A	TRUNK 4
	C4	CD 85A WSA-B33-H8	FULL-SPLIT (CEAS)	210°	E 100°-0'	CD RRUS	N/A	E 120'	E N/A	TRUNK 3
RF DATA SHEET Y10040 DATED 10/17/10							CD PROPOSED RRUS			
							CD FUTURE RRUS			
							CD RRUS TOTAL			

6 RF SCHEDULE  
NOT TO SCALE



6 ENLARGED ANTENNA PLAN  
1/2" x 1'-0"

DESIGNED FOR:  
**LOTUS**  
2002 COFFER LANE  
PLACERVILLE, CA 95667

PREPARED FOR  
**at&t**  
3600 Camino Ramon, #1050 N  
San Ramon, California 94583

**EPIC**  
WIRELESS GROUP LLC  
Creating a Wireless World

AT&T SITE NO: CVL03140  
PROJECT NO: 13787444  
DRAWN BY: CES  
CHECKED BY: CES

REV	DATE	DESCRIPTION
0	11/09/10	ISSUED
1	12/09/10	ISSUED
1	12/09/10	ISSUED

LICENSE:  
Professional Engineer  
No. 84674  
STATE OF CALIFORNIA

Engineer:  
**ADAPTIVE RE-USE ENGINEERING**  
Craig Homer, PE 84674  
214-407-3184  
3112 LEATHA WAY  
SACRAMENTO, CA 95821  
craig@homer@yahoo.com

SHEET TITLE:  
**ANTENNA PLAN & DETAILS**

SHEET NUMBER:  
**A-3**

DRAWING FOR:  
**LOTUS**  
 2002 COFFER LANE  
 PLACERVILLE, CA 95667



**EPIC**  
 WIRELESS GROUP LLC  
 CONSULTING • WIRELESS • DESIGN

PLAN SHEET NO: CW00140  
 PROJECT NO: 1378744  
 DRAWN BY: CES  
 CHECKED BY: CES

NO.	DATE	DESCRIPTION
1	11/25/11	ISSUE FOR PERMITS
2	11/25/11	ISSUE FOR PERMITS
3	11/25/11	ISSUE FOR PERMITS
4	11/25/11	ISSUE FOR PERMITS

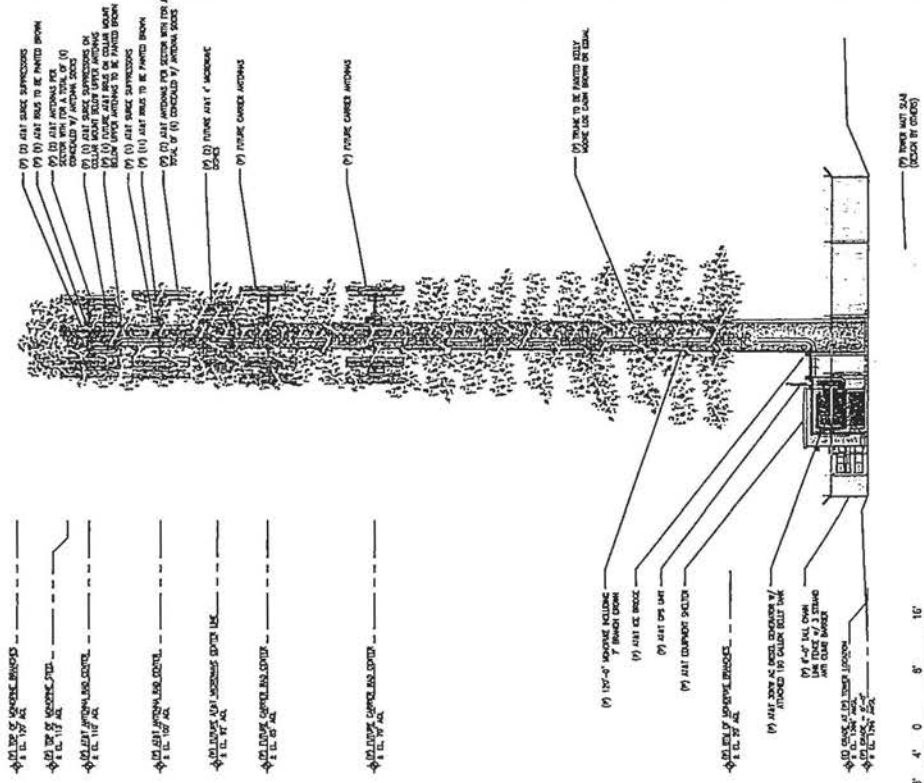


ENGINEER:  
**ADAPTIVE RE-USE ENGINEERING**  
 Craig Homer, PE #8474  
 214-07-3184  
 317 TEANNA WAY  
 SACRAMENTO, CA 95821  
 craighomer@reui.com

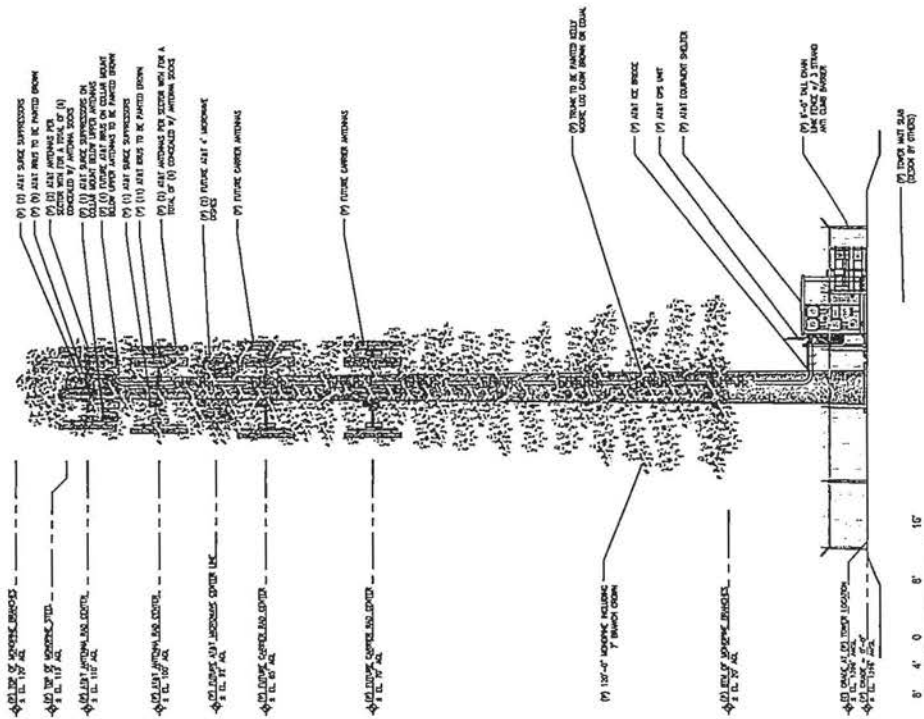
SHEET TITLE:  
**PROPOSED MONOPINE**  
 NORTH - SOUTH ELEVATION

SHEET NUMBER:  
**A-4.1**

NOTE:  
 BRANCHES SHOWN ARE FOR  
 ILLUSTRATIVE PURPOSES ONLY.  
 NOT TO SCALE



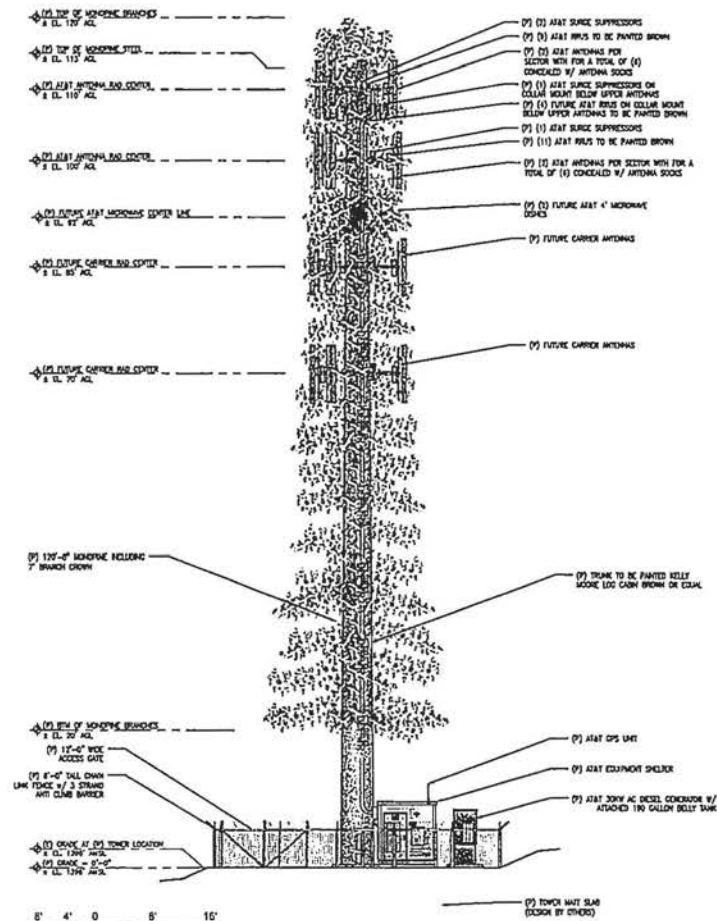
1 PROPOSED SOUTH ELEVATION  
 1/8\"/>



2 PROPOSED NORTH ELEVATION  
 1/8\"/>

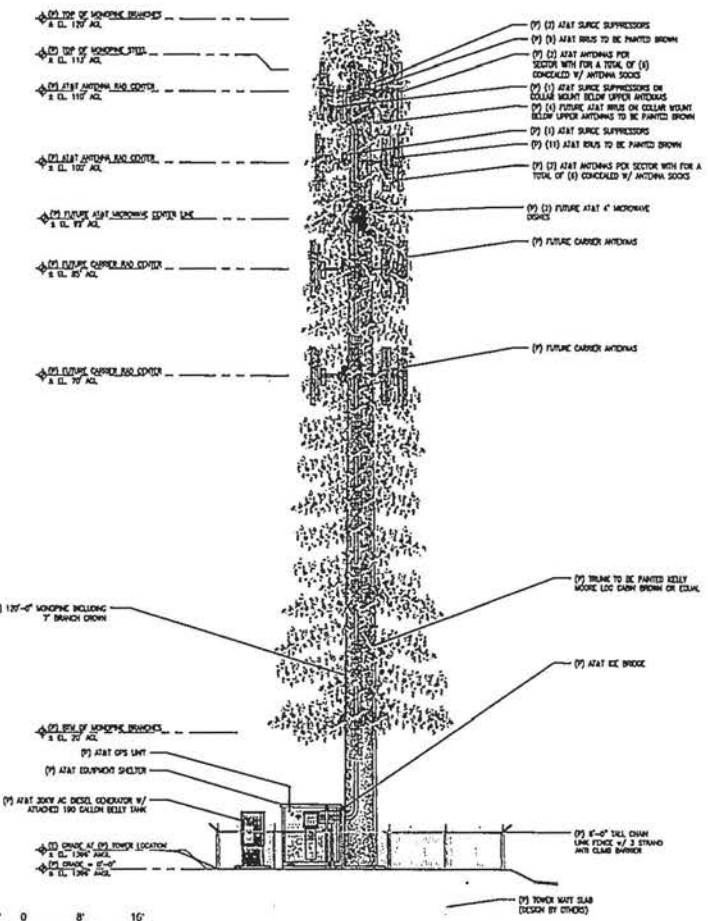
SITE TYPE: MONOPINE/SHELTER

NOTE:  
BRANCHES SHOWN ARE FOR  
ILLUSTRATIVE PURPOSES ONLY.  
NOT TO SCALE



1 PROPOSED EAST ELEVATION  
1/8"=1'-0"

NOTE:  
BRANCHES SHOWN ARE FOR  
ILLUSTRATIVE PURPOSES ONLY.  
NOT TO SCALE



2 PROPOSED WEST ELEVATION  
1/8"=1'-0"

SITE TYPE: MONOPINE/SHELTER

saved for  
**LOTUS**  
2002 COFFER LANE  
PLACERVILLE, CA 95667

PREPARED FOR  
**at&t**  
3400 Corning Roman, #4550 W  
San Ramon, California 94583

**EPIC**  
WIRELESS GROUP LLC  
Consulting & Wireless Supply

ATAT SITE NO: CVL03140  
PROJECT NO: 13787644  
DRAWN BY: CES  
CHECKED BY: CES

REV	DATE	DESCRIPTION
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1	12/19/18	ISSUED
2	12/19/18	ISSUED
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49	12/19/18	ISSUED
50	12/19/18	ISSUED

Licensee:  
  
PE & HOLDERS OF LICENSES MAY  
PERFORM THESE SERVICES ONLY  
UNDER THE SUPERVISION OF A LICENSED  
PROFESSIONAL ENGINEER OR ARCHITECT  
DOCUMENT

Engineer:  
**ADAPTIVE RE-USE  
ENGINEERING**  
Craig Homer, PE 84674  
214-407-3184  
3112 LEATHA WAY  
SACRAMENTO, CA 95821  
craig@homer@yahoo.com

SHEET TITLE:  
PROPOSED MONOPINE  
WEST - EAST ELEVATION

SHEET NUMBER:  
**A-4.2**



APPROVED  
EL DORADO COUNTY  
PLANNING COMMISSION

DATE June 13, 2018

BY Tiffany Schind  
EXECUTIVE SECRETARY

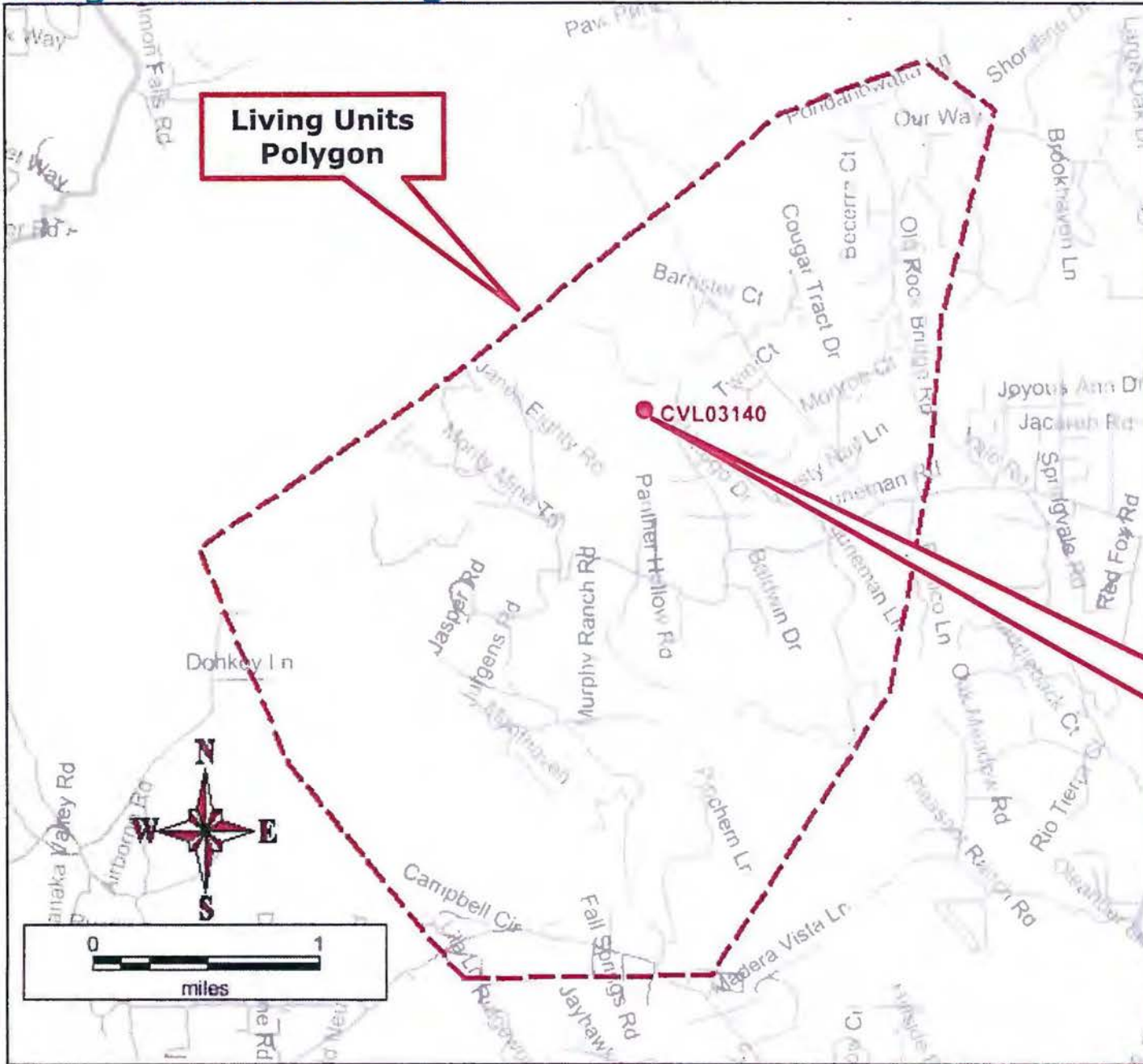
# CVL03140 Zoning Propagation Map

Nov 28, 2018

Exhibit G



# Existing LTE 700 Coverage



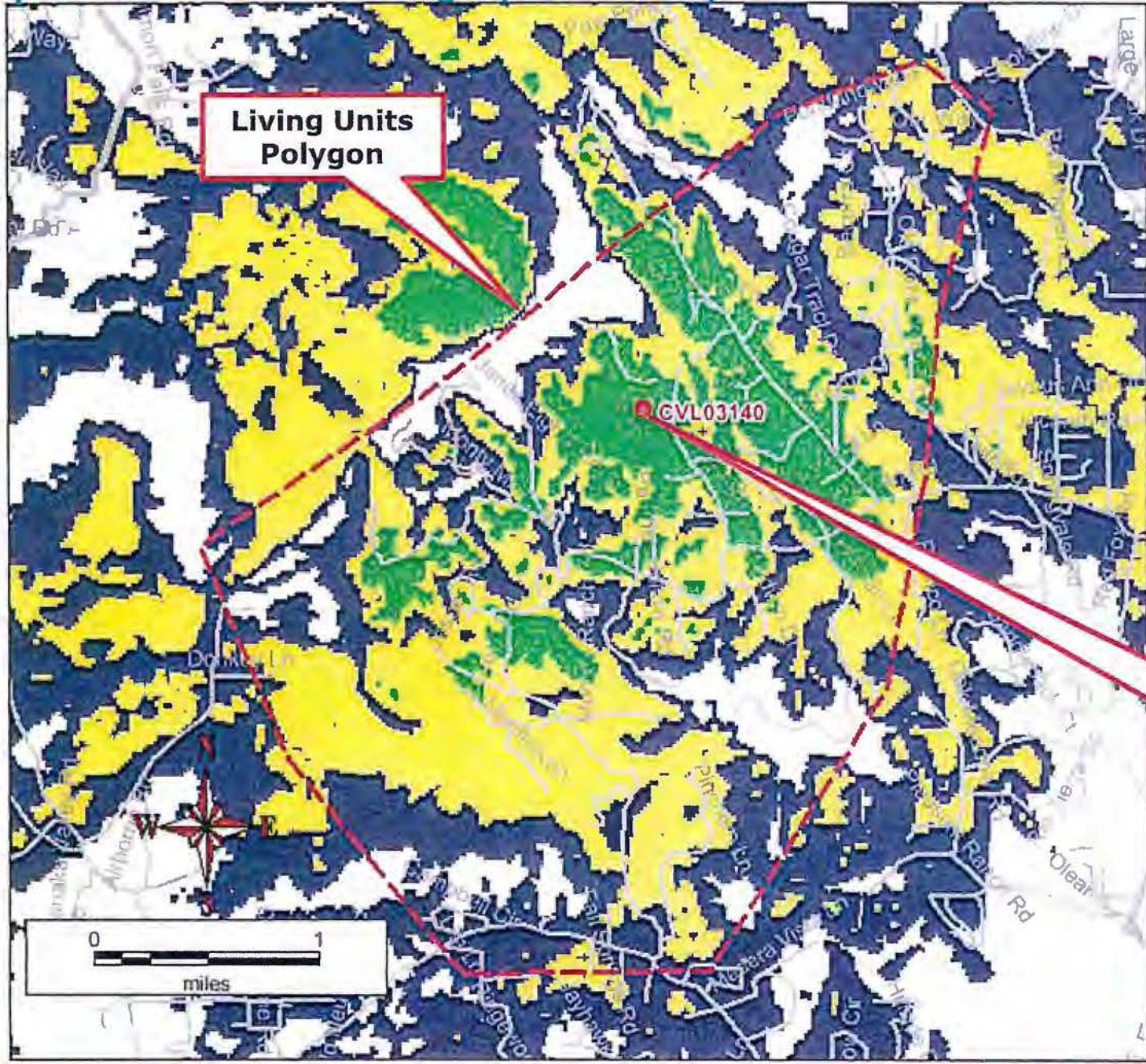
### Legend

- In-Building Service
- In-Transit Service
- Outdoor Service
- Existing site
- Proposed site

**Lotus**



# Proposed LTE 700 Coverage (RC = 110')



### Legend

- In-Building Service
- In-Transit Service
- Outdoor Service
- Existing site
- Proposed site

Lotus



APPROVED  
EL DORADO COUNTY  
PLANNING COMMISSION

DATE June 13, 2019

BY Tiffany Schmid/dhe  
EXECUTIVE SECRETARY



CVL03140 Lotus  
2002 Coffey Lane, Placerville, CA  
Photosims Produced on 12-14-2018



AdvanceSim  
Photo Simulation Solutions  
Contact (925) 202-8507

Exhibit H

Shot Point Map



*Existing*



*Proposed*



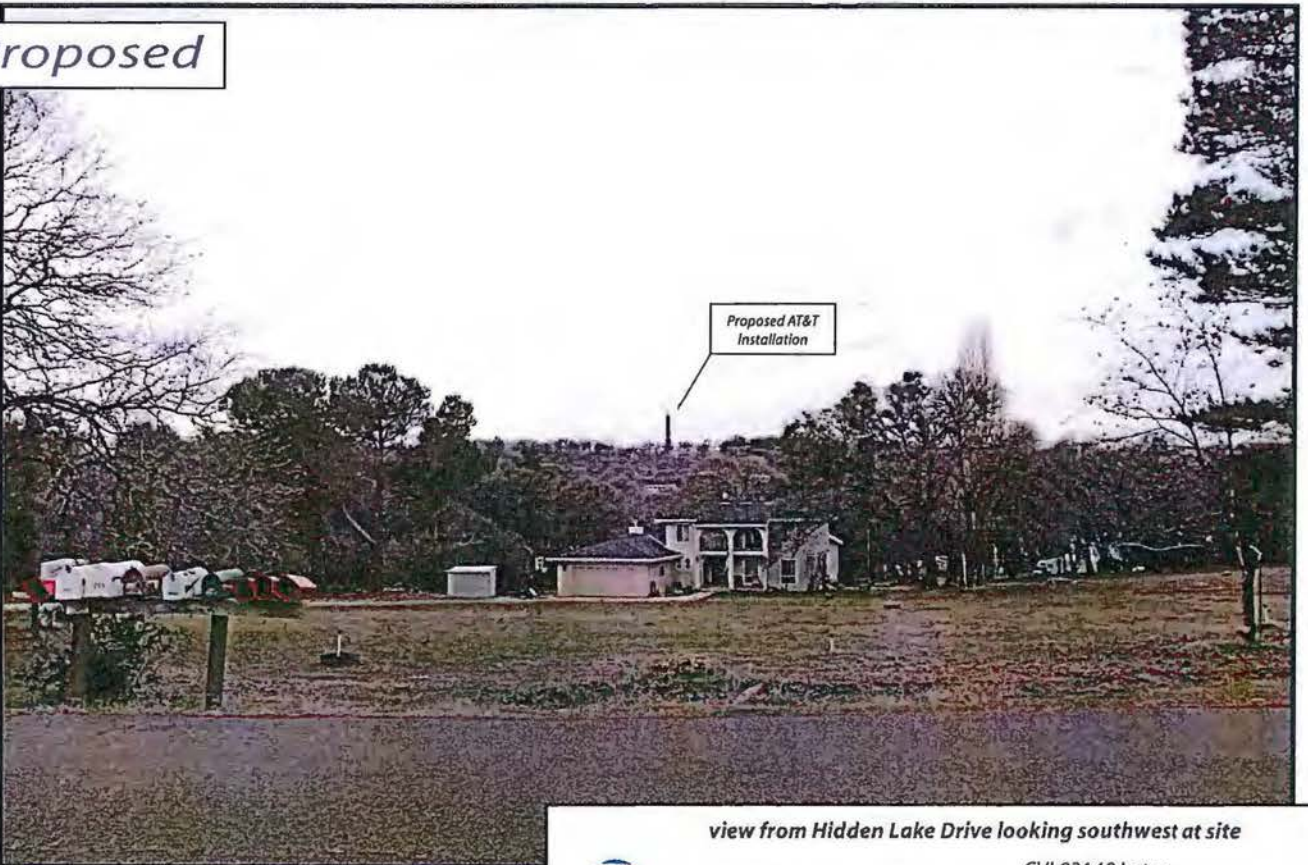
view from Coffey Lane looking northwest at site



Existing



Proposed



view from Hidden Lake Drive looking southwest at site



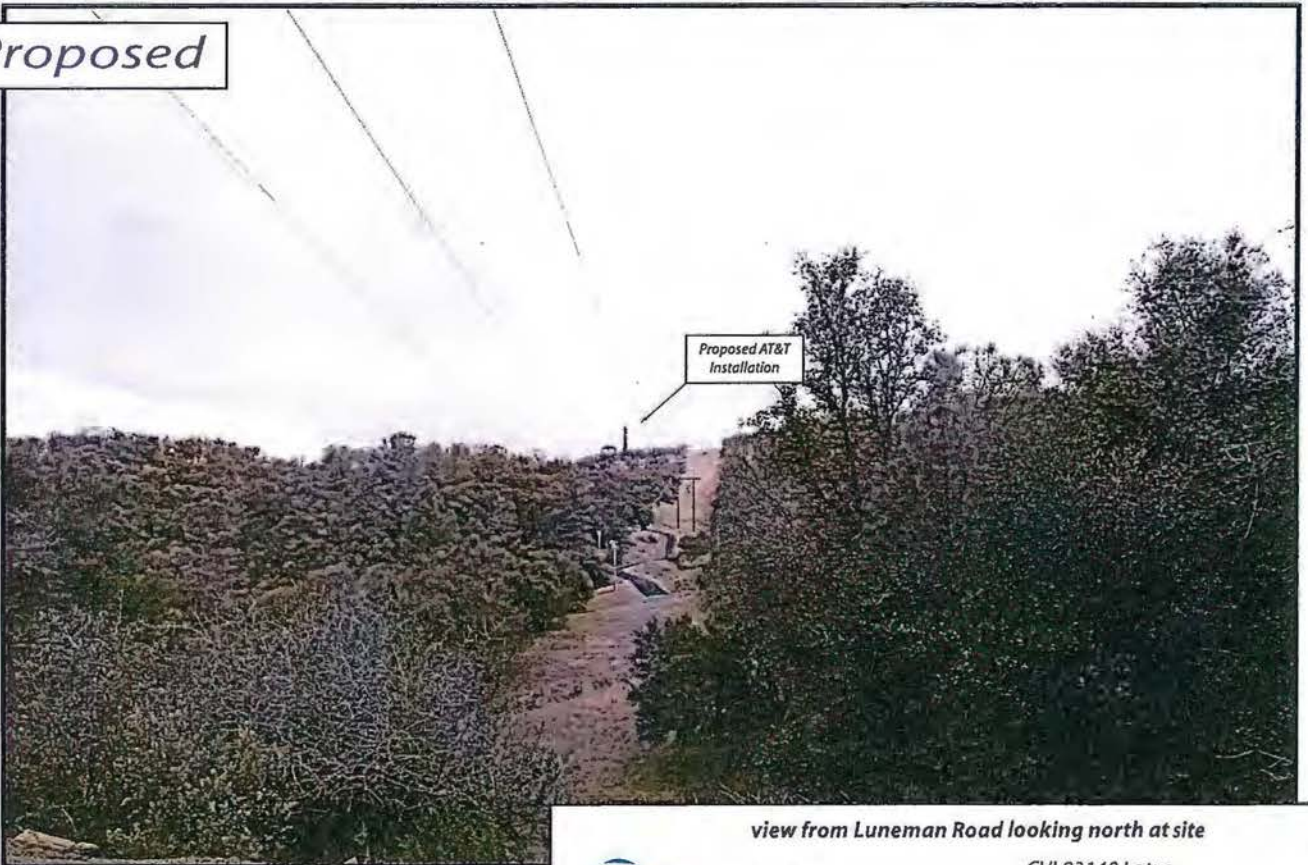
CVL03140 Lotus  
2002 Coffey Lane, Placerville, CA  
Photosims Produced on 12-14-2018



Existing



Proposed



view from Luneman Road looking north at site



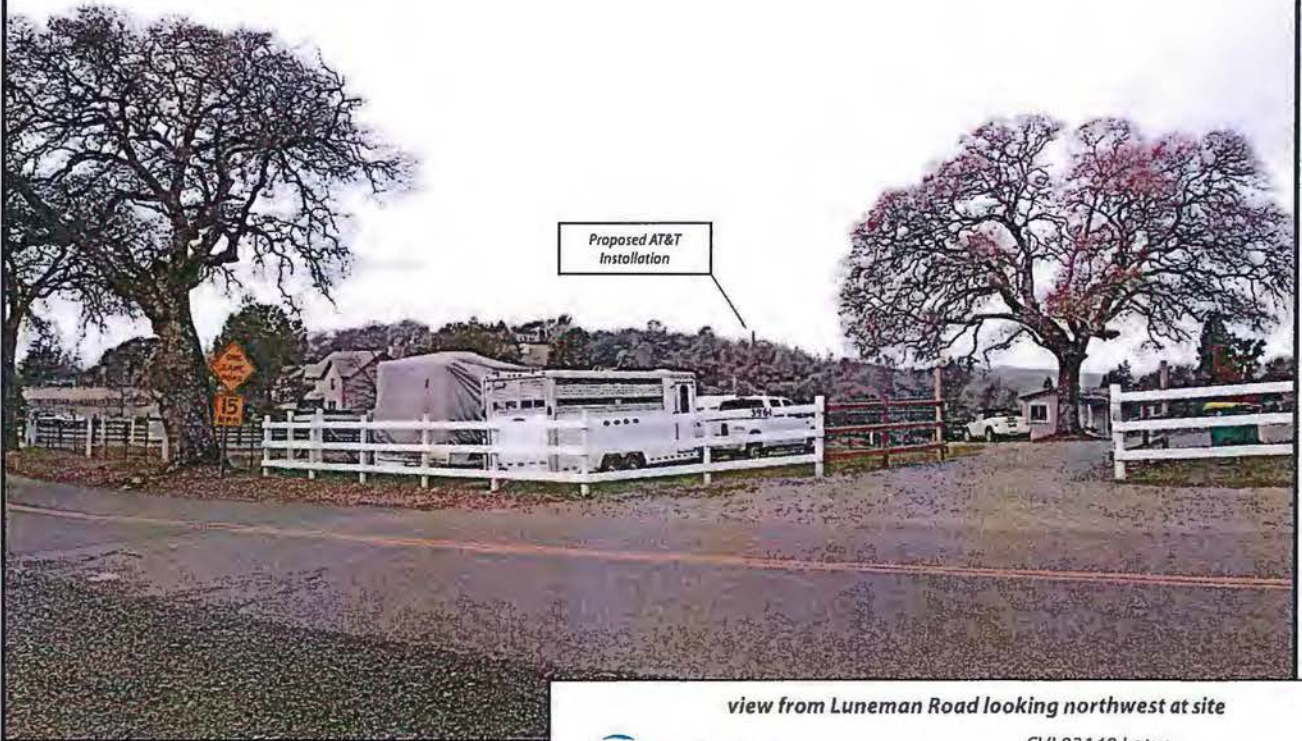
CVL03140 Lotus  
2002 Coffey Lane, Placerville, CA  
Photosims Produced on 12-14-2018



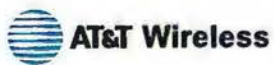
Existing



Proposed



view from Luneman Road looking northwest at site



CVL03140 Lotus  
2002 Coffey Lane, Placerville, CA  
Photosims Produced on 12-14-2018



# ELECTROMAGNETIC ENERGY (EME) EXPOSURE REPORT

---



Site Name: Lotus Carlsen  
Site ID: CVL03140  
USID: 220461  
FA Location: 13787644

Site Type: Stealth Pole External Array

Location: 2002 Coffer Lane  
Placerville, CA 95667

Latitude (NAD83): 38.774353  
Longitude (NAD83): -120.975453

Report Completed: December 18, 2018  
AT&T M-RFSC Casey Chan

Prepared By:



APPROVED  
EL DORADO COUNTY  
PLANNING COMMISSION

DATE: June 13, 2019  
BY: Tiffany Schmid/dre  
EXECUTIVE SECRETARY

Prepared for: AT&T Mobility  
c/o Caldwell Compliance, Inc.  
6900 Koll Center Parkway,  
Ste. 401  
Pleasanton, CA 94566

**Exhibit I**

## **Executive Summary**

Occupational Safety & Compliance Engineering (OSC Engineering) has been contracted by Caldwell Compliance, Inc. to conduct an RF (radio frequency) computer simulated analysis. The Federal Communications Commission (FCC) has set limits on RF energy exposed to humans on a wireless cell site in order to ensure safety. The FCC has also mandated that all RF wireless sites must be in compliance with the FCC limits and a compliance check should be performed routinely to ensure site compliance.

This report is an in depth analysis summarizing the results of the RF modeling provided to us by AT&T and in relation to relevant FCC RF compliance standards. A reanalysis is recommended upon the site going on air.

OSC Engineering uses the FCC OET-65 as well as AT&T Standards to make recommendations based on results and information gathered from drawings and Radio Frequency Data Sheets.

For this report, OSC Engineering utilized Roofview® software for the theoretical analysis of the AT&T Cellular Facility.

A site-specific compliance plan is recommended for each transmitting site. This report serves as a single piece of the overall compliance plan.

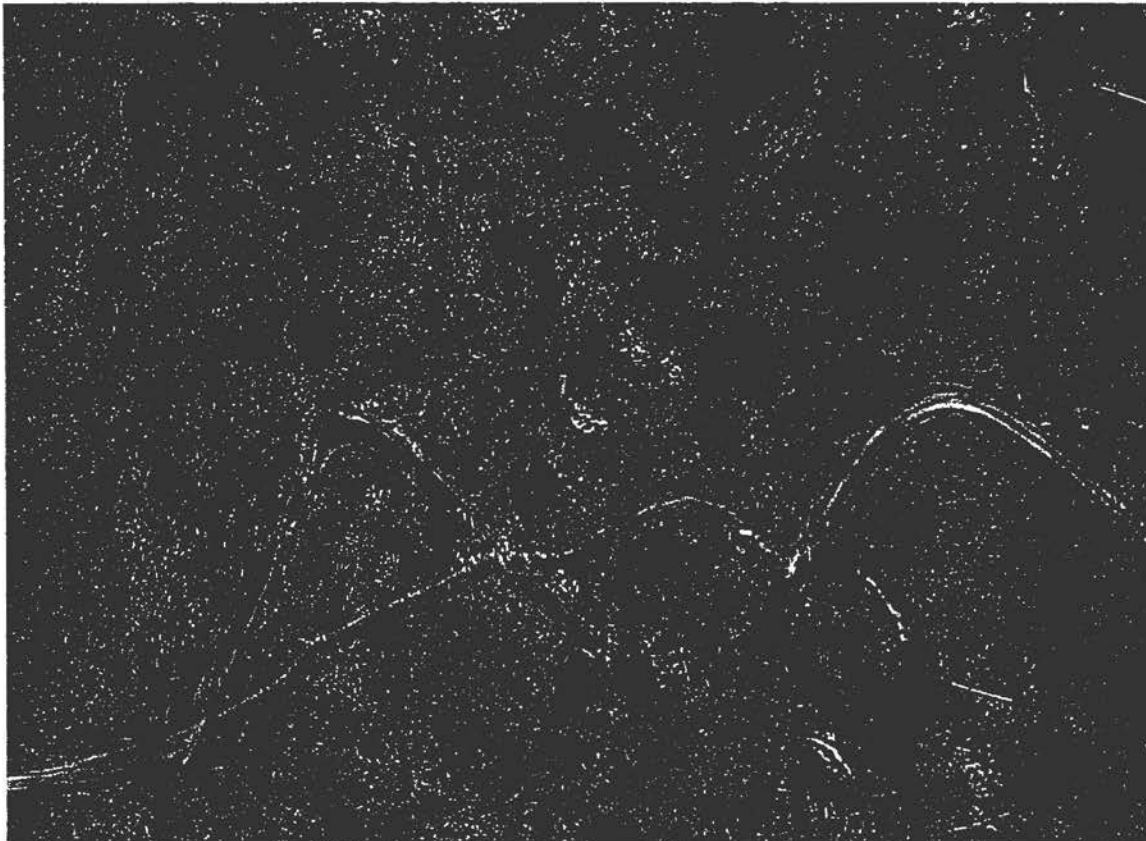
## **Site Compliance Conclusion**

**The AT&T site CVL03140 located at 2002 Coffer Lane Placerville, CA 95667 will comply with FCC Guidelines.**



## Site Overview and Description

- The antennas are mounted on a monotree
- The site consists of three (3) sectors with a total of twelve (12) antennas
- The site is within a fenced in area, access to the site is via a gate
- The site is not co-located



## **Compliance Results of the Proposed Site (theoretical simulation)**

A result over 100% does not make a site out of compliance with FCC guidelines. For results over 100% of the FCC Limit, further remediation is required to consider the site compliant per FCC Guidelines. See the last page of this report entitled **RECOMMENDATIONS** for compliance actions required for FCC and AT&T Compliance. Only areas within the demarcated areas (barriers) are over the FCC Limit. The remediation actions bring the site into compliance. Results are given in terms of the FCC General Population. Please see the page entitled **FCC MPE Limits (from OET-65)** for further information. For the purpose of theoretical simulation, OSC Engineering models antennas as if they are operating at full power (100% capacity). This assumption yields more conservative (higher) results. On-site measurements may yield different results, as antennas do not always operate at full capacity.

### **Max RF Exposure Level simulated (AT&T antennas @ ground):**

3.90 % FCC General Population MPE Limit

## Antenna Inventory

All technical data and specifications shown below are collected from drawings and/or documents provided by the client, as well as from online databases and/or a visit to this facility. Unknown wireless transmitting antennas are simulated using conservative values when information is not available.

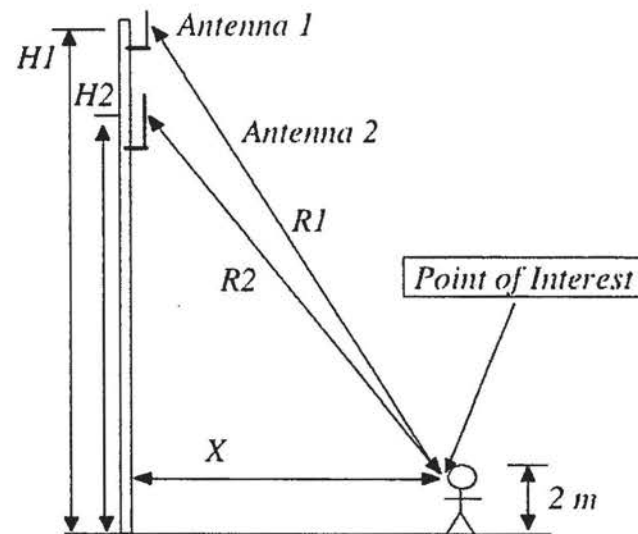
Antenna	Operator / Technology	Frequency (MHz)	Input Power (watts)	Antenna Type	Antenna Make	Antenna Model	Azimuth (°T)	Ground (Z) (ft)
A1	AT&T LTE B17	700	160.00	Panel	Kathrein	800-10965 K	90	106.7
A1	AT&T LTE	1900	160.00	Panel	Kathrein	800-10965 K	90	106.7
A2	AT&T LTE B14	700	160.00	Panel	Kathrein	800-10965 K	90	106.7
A2	AT&T LTE	2100	160.00	Panel	Kathrein	800-10965 K	90	106.7
A3	AT&T LTE B29	700	80.00	Panel	Kathrein	800-10965 K	90	96.7
A3	AT&T LTE	1900	160.00	Panel	Kathrein	800-10965 K	90	96.7
A4	AT&T LTE	2300	100.00	Panel	CCI	BSA-M65R-BUU-H6-K	324	97
A4	AT&T LTE	2300	100.00	Panel	CCI	BSA-M65R-BUU-H6-K	16	97
B1	AT&T LTE B17	700	160.00	Panel	Kathrein	800-10965 K	330	106.7
B1	AT&T LTE	1900	160.00	Panel	Kathrein	800-10965 K	330	106.7
B2	AT&T LTE B14	700	160.00	Panel	Kathrein	800-10965 K	330	106.7
B2	AT&T LTE	2100	160.00	Panel	Kathrein	800-10965 K	330	106.7
B3	AT&T LTE B29	700	80.00	Panel	Kathrein	800-10965 K	330	96.7
B3	AT&T LTE	1900	160.00	Panel	Kathrein	800-10965 K	330	96.7

Antenna	Operator / Technology	Frequency (MHz)	Input Power (watts)	Antenna Type	Antenna Make	Antenna Model	Azimuth (°T)	Ground (Z) (ft)
B4	AT&T LTE	2300	100.00	Panel	Quintel	QS6656-3	330	97
G1	AT&T LTE B17	700	160.00	Panel	Kathrein	800-10965 K	210	106.7
G1	AT&T LTE	1900	160.00	Panel	Kathrein	800-10965 K	210	106.7
G2	AT&T LTE B14	700	160.00	Panel	Kathrein	800-10965 K	210	106.7
G2	AT&T LTE	2100	160.00	Panel	Kathrein	800-10965 K	210	106.7
G3	AT&T LTE B29	700	80.00	Panel	Kathrein	800-10965 K	210	96.7
G3	AT&T LTE	1900	160.00	Panel	Kathrein	800-10965 K	210	96.7
G4	AT&T LTE	2300	100.00	Panel	CCI	BSA-M65R-BUU-H6-K	324	97
G4	AT&T LTE	2300	100.00	Panel	CCI	BSA-M65R-BUU-H6-K	16	97

## FCC Regulations and Guidelines from OET 65

When considering the contributions to field strength or power density from other RF sources, care should be taken to ensure that such variables as reflection and re-radiation are considered. In cases involving very complex sites predictions of RF fields may not be possible, and a measurement survey may be necessary. The process for determining compliance for other situations can be similarly accomplished using the techniques described in this section and in Supplement A to this bulletin that deals with radio and television broadcast operations. However, as mentioned above, at very complex sites measurements may be necessary.

In the simple example shown in the below diagram, it is desired to determine the power density at a given location  $X$  meters from the base of a tower on which are mounted two antennas. One antenna is a CMRS antenna with several channels, and the other is an FM broadcast antenna. The system parameters that must be known are the total ERP for each antenna and the operating frequencies (to determine which MPE limits apply). The heights above ground level for each antenna,  $H1$  and  $H2$ , must be known in order to calculate the distances,  $R1$  and  $R2$ , from the antennas to the point of interest.<sup>1</sup>



<sup>1</sup> OET Bulletin 65, Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, Page 37- 38



## Computer Simulation Analysis

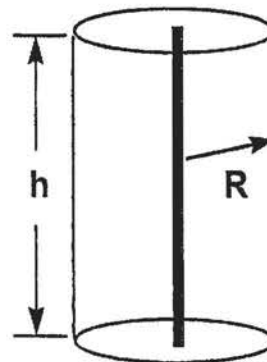
The Federal Communications Commission (FCC) governs the telecommunications services, facilities, and devices used by the public, industrial and state organizations in the United States.

"RoofView® is a software analysis tool for evaluating radiofrequency (RF) field levels at roof-top telecommunications sites produced by vertical collinear antennas of the type commonly used in the cellular, paging, PCS, ESMR and conventional two-way radio communications services."<sup>2</sup>

"RF near-field levels are computed from selected antennas by applying a cylindrical model that takes into account the antenna's aperture height, mounting height above the roof, azimuthal beam width for directional antennas and the location of the antennas on the roof. Resulting, spatially averaged power densities are expressed as a percentage of a user selectable exposure limit depending on frequency. The entire roof is composed of one-square-foot pixels and RF fields are computed for each of these pixels for each selected antenna."<sup>3</sup>

Computer simulations produced for clients are simulated with "Uptime = 100%". This means that all transmitters associated with an antenna are considered to be "on".<sup>4</sup>

RoofView® uses a near-field method of computing the field based on assuming that the total input power delivered to the antenna, at its input terminal, is distributed over an imaginary cylindrical surface surrounding the antenna. The height of the cylinder is equal to the aperture height of the antenna while the radius is simply the distance from the antenna at which the field power density is to be computed. Within the aperture of the antenna, this approximation is quite accurate but as the antenna is elevated above the region of interest, the model output must be corrected for mounting height.<sup>5</sup>



$$S = \frac{P}{2\pi Rh}$$

<sup>2</sup> Roofview User Guide 4.15, Page 7, Richard A Tell Associates

<sup>3</sup> Roofview User Guide 4.15, Page 7, Richard A Tell Associates

<sup>4</sup> Roofview User Guide 4.15, Page 10, Richard A Tell Associates

<sup>5</sup> Roofview User Guide 4.15, Page 45, Richard A Tell Associates

## Certification

The undersigned is a Professional Engineer, holding a California Registration No. 19677

Reviewed and approved by:



John B. Bachoua, PE

Date: December 18, 2018

The engineering and design of all related structures as well as the impact of the antennas on the structural integrity of the design are specifically excluded from this report's scope of work. This report's scope of work is limited to an evaluation of the Electromagnetic Energy (EME) RF emissions field generated by the antennas listed in this report. When client and others have supplied data, it is assumed to be correct.

## **FCC MPE Limits (from OET-65)**

OSC Engineering uses the FCC's and clients' guidelines to model the computer simulation. Explained in detail in Office of Engineering & Technology, Bulletin No. 65 ("OET-65") "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Radiation".

**Occupational/controlled**<sup>6</sup> exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. As discussed later, the occupational/controlled exposure limits also apply to amateur radio operators and members of their immediate household.

**General population/uncontrolled**<sup>7</sup> exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

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<sup>6</sup> OET-65 "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields pg. 9.

<sup>7</sup> OET-65 "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields pg. 9.

## Limits for Maximum Permissible Exposure (MPE)<sup>8</sup>

"The FCC Exposure limits are based on data showing that the human body absorbs RF energy at some frequencies more efficiently than at others. The most restrictive limits occur in the frequency range of 30-300MHz where whole-body absorption of RF energy by human beings is most efficient. At other frequencies whole-body absorption is less efficient, and, consequently, the MPE limits are less restrictive."<sup>9</sup>

### (A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100) <sup>*</sup>	6
3.0-30	1842/f <sup>†</sup>	4.89/f	(900/f <sup>2</sup> ) <sup>*</sup>	6
32-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

### (B) Limits for General Population /Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100) <sup>*</sup>	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> ) <sup>*</sup>	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f= Frequency in MHz

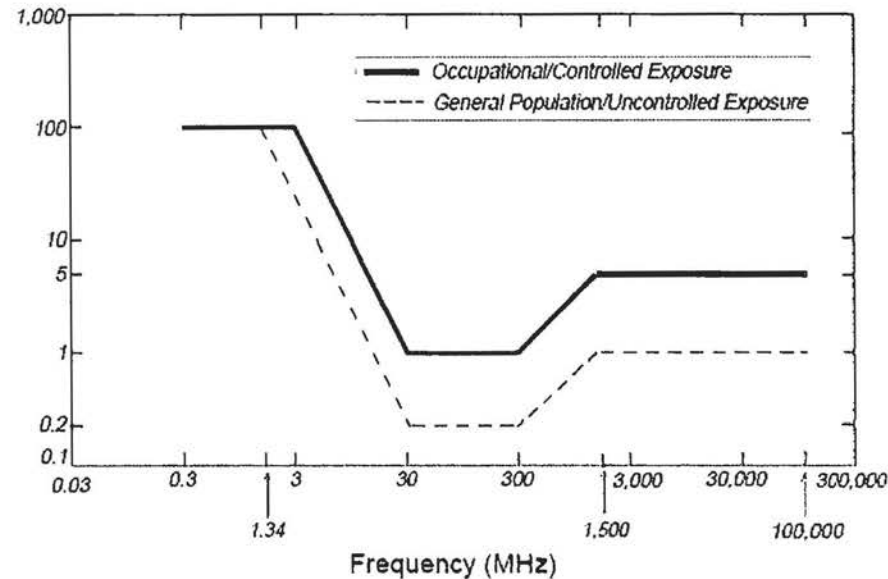
<sup>\*</sup>Plane-wave equivalent power density

<sup>8</sup> OET-65 "FCC Guidelines Table 1 pg. 72.

<sup>9</sup> OET-65 "FCC Guidelines for Evaluating Exposure to RF Emissions", pg. 8

## Limits for Maximum Permissible Exposure (MPE) continued<sup>10</sup>

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



"MPE Limits are defined in terms of power density (units of milliwatts per centimeter squared: mW/cm<sup>2</sup>), electric field strength (units of volts per meter: V/m) and magnetic field strength (units of amperes per meter: A/m). In the far-field of a transmitting antenna, where the electric field vector (E), the magnetic field vector (H), and the direction of propagation can be considered to be all mutually orthogonal ("plane-wave" conditions), these quantities are related by the following equation:

$$S = \frac{E^2}{3770} = 37.7H^2$$

where: S = power density (mW/cm<sup>2</sup>)  
 E = electric field strength (V/m)  
 H = magnetic field strength (A/m)

<sup>10</sup> OET-65 "FCC Guidelines Table 1 pg. 72.



## Limitations

OSC Engineering completed this evaluation analysis based on information and data provided by the client. The data provided by the client is assumed to be accurate. Estimates of the unknown, standard, and additional transmitting sites are noted and based on FCC regulation and client requirements. These are estimated to the best of our professional knowledge. This report is completed by OSC Engineering to determine whether the wireless communications facility complies with the Federal Communications Commission (FCC) Radio Frequency (RF) Safety Guidelines. The Office of Engineering and Technology (OET-65) *Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Radiation* has been prepared to provide assistance in determining whether proposed or existing transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency (RF) fields adopted by the Federal Communications Commission (FCC)<sup>11</sup>. As each site is getting upgraded and changed, this report will become obsolete as this report is based on current information per the client, per the date of the report. Use of this document will not hold OSC Engineering Inc. nor its employees liable legally or otherwise. This report shall not be used as a determination as to what is safe or unsafe on a given site. All workers or other people accessing any transmitting site should have proper EME awareness training. This includes, but is not limited to, obeying posted signage, keeping a minimum distance from antennas, watching EME awareness videos and formal classroom training.

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<sup>11</sup> OET-65 "FCC Guidelines for Evaluating Exposure to RF Emissions", pg. 1

## **AT&T Antenna Shut-Down Protocol**

AT&T provides Lockout/Tagout (LOTO) procedures in Section 9.4<sup>12</sup> (9.4.1- 9.4.9) in the ND-00059. These procedures are to be followed in the event of anyone who needs access at or in the vicinity of transmitting AT&T antennas. Contact AT&T when accessing the rooftop near the transmitting antennas. Below is information regarding when to contact an AT&T representative.

### **9.4.7 Maintenance work being performed near transmitting antennas**

Whenever anyone is working within close proximity to the transmitting antenna(s), the antenna sector, multiple sectors, or entire cell site may need to be shut down to ensure compliance with the applicable FCC MPE limit. This work may include but is not limited to structural repairs, painting or non-RF equipment services by AT&T personnel/contractors or the owner of a tower, water tank, rooftop, or other low-centerline sites. The particular method of energy control will depend on the scope of work (e.g., duration, impact to the antenna or transmission cabling, etc.) and potential for RF levels to exceed the FCC MPE limits for General Population/Uncontrolled environments

### **9.4.8 AT&T Employees and Contractors**

AT&T employees and contractors performing work on AT&T cell sites must be trained in RF awareness and must exercise control over their exposure to ensure compliance with the FCC MPE limit for Occupational/Controlled Environments ("Occupational MPE Limit").

The rule of staying at least 3 feet from antennas is no longer always adequate to prevent exposure above the Occupational MPE Limit. That general rule was applied early in the development of cellular when omni-directional antennas were primarily used and later when wide-beamwidth antennas were used. That application was then appropriate for the Occupational exposure category. However, the current prevalence of antennas with 60- and 70- degree horizontal half-power beamwidths at urban and suburban GSM and UMTS/HSDPA sites raises some question about the continued reliability of the 3-foot rule. Antennas with low bottom-tip heights and total input powers around 70-80 W can produce exposure levels exceeding the Occupational MPE Limits at 4 feet, and these levels can be augmented by emissions of co-located operators. Therefore, AT&T employees and contractors should apply the above general work procedures and use an RF personal monitor to assess exposure levels within the work vicinity.

### **9.4.9 Other Incidental Workers**

All other incidental workers who are not trained in RF safety are considered general public and subject to the FCC MPE limits for General Population/Uncontrolled Environments. In such instance, the M-RFSC (primary contact) or R-RFSC (secondary contact) must refer to the Mobility RF site survey plan to assess the potential RF exposure levels associated with the antenna system. If capable of exceeding the FCC General Population/Uncontrolled MPE limit, then local sector/site shutdown is necessary. The FE/FT must also follow the local shutdown procedure and use their RF personal monitor as a screening tool for verification, as necessary.

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<sup>12</sup> ND-00059\_Rev\_5.1 "Lockout/Tagout (LOTO) Procedures" Page 45.

## RECOMMENDATIONS

- **AT&T Access Point(s):**

Caution Sign 2B  
(Tower) @ base of  
monotree (to be  
posted)

- **AT&T Sector A**

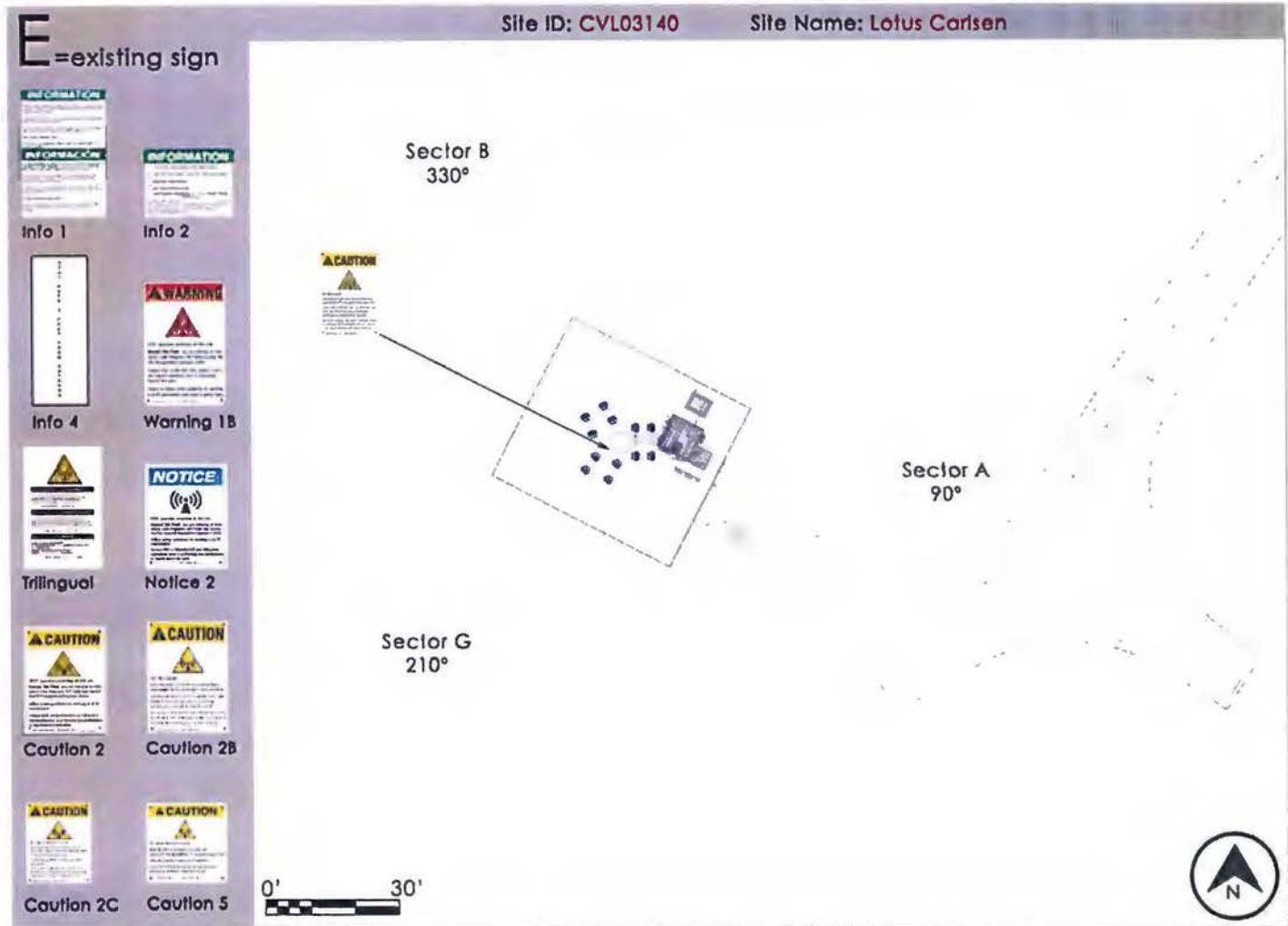
No signage or barrier  
action required

- **AT&T Sector B**

No signage or barrier  
action required

- **AT&T Sector G**

No signage or barrier  
action required



If work is being performed in the vicinity of the transmitting antennas, site shut-down procedures must be followed. See page entitled AT&T Antenna Shut-down protocol for further information.