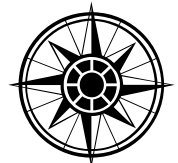


S17-0019/AT&T Auburn Lake Trails
Location Map
Exhibit A



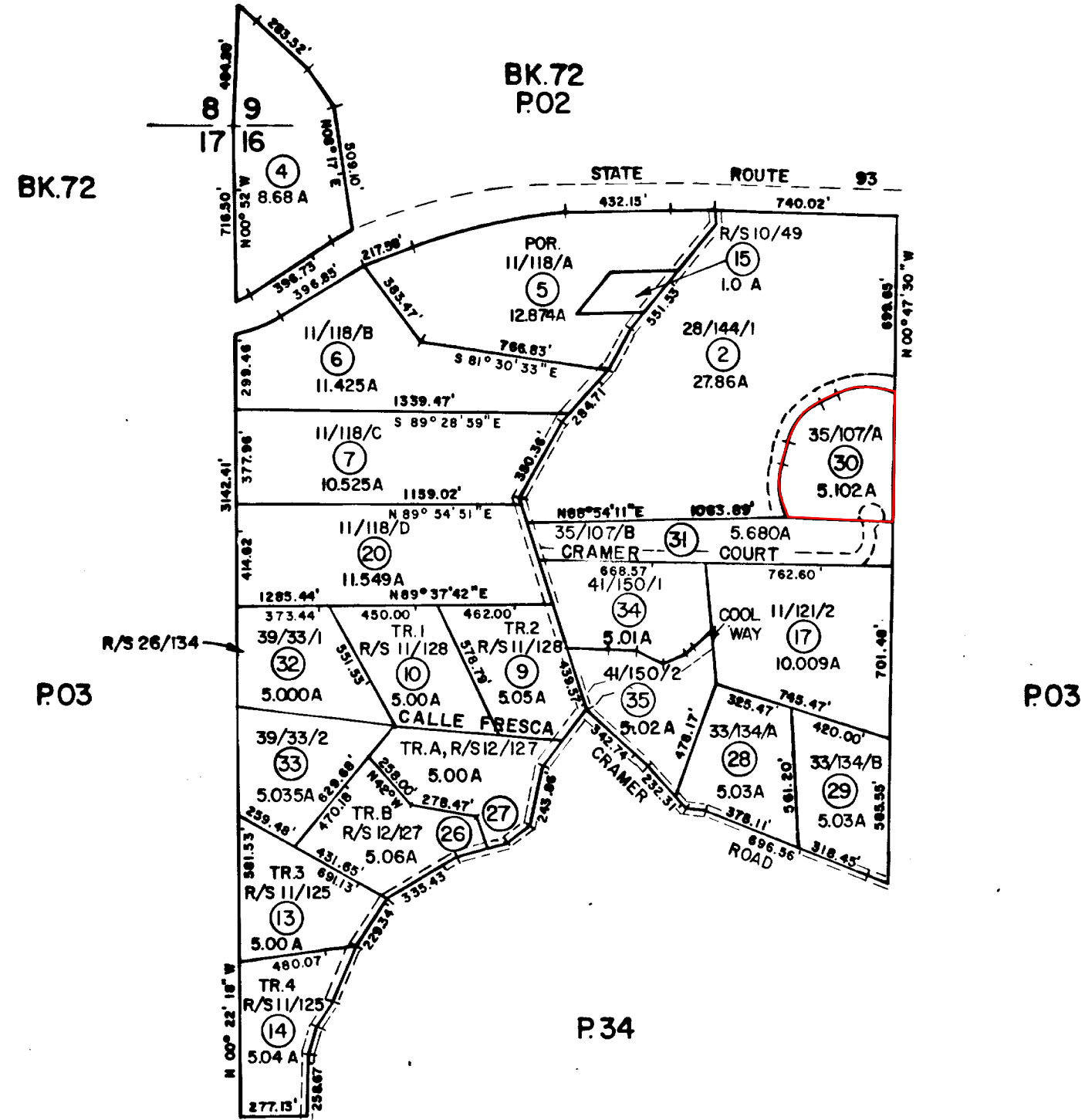
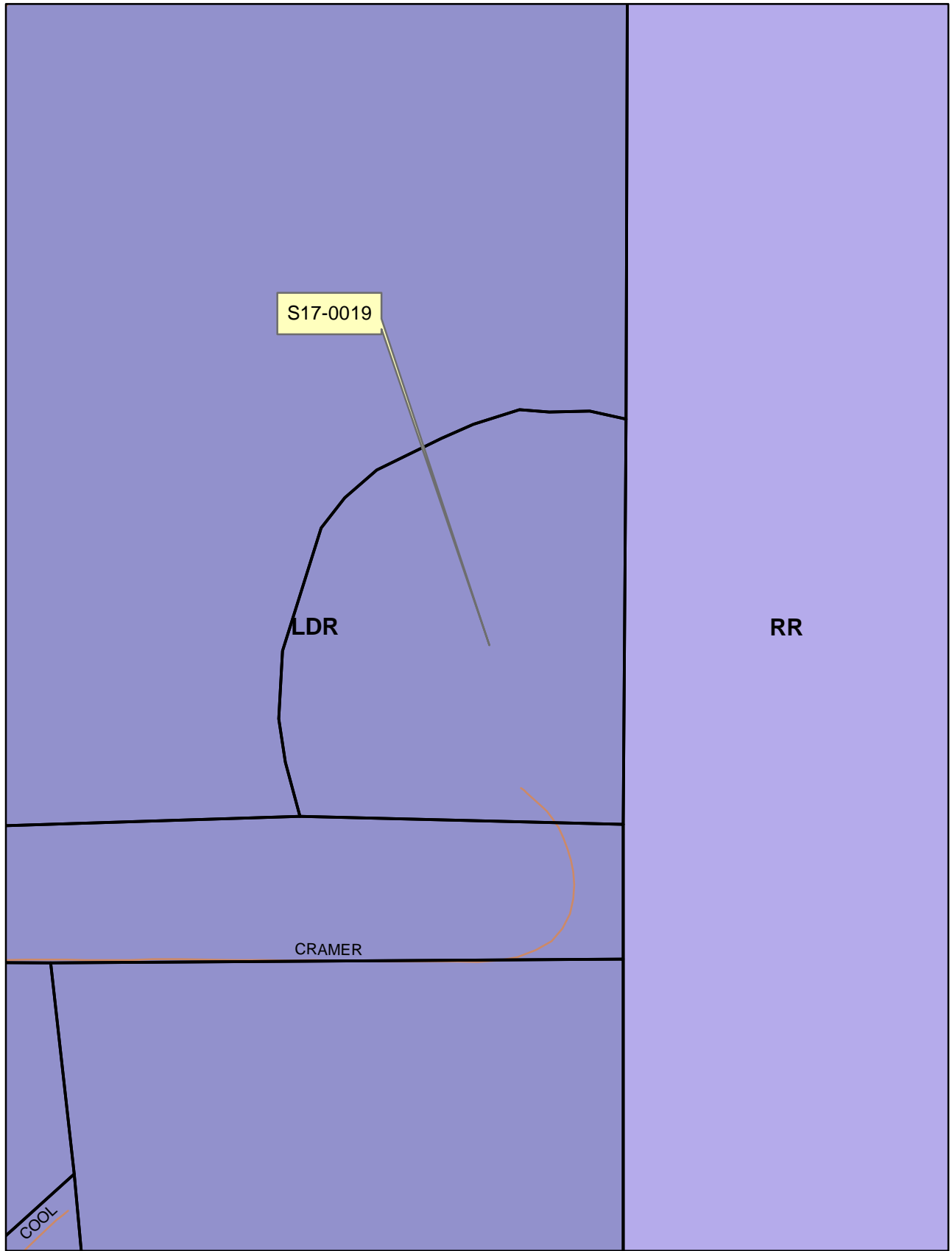
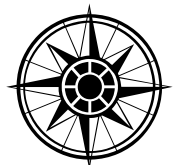


Exhibit B

NOTE - Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Circles



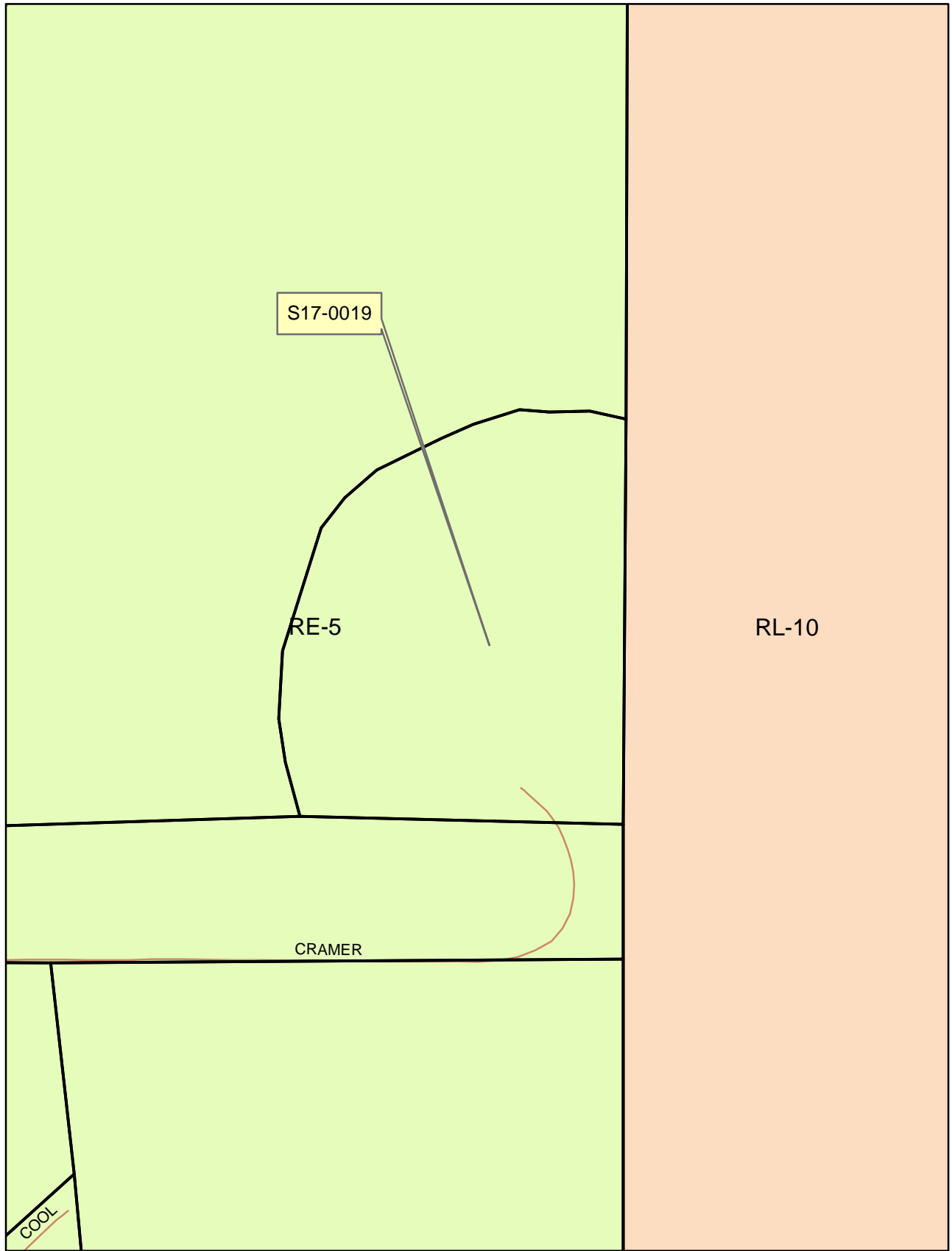
S17-0019/AT&T Auburn Lake Trails
General Plan Map
Exhibit C



-  LDR
-  RR

0 0.05 0.1 0.2 Kilometers





S17-0019

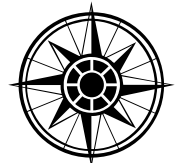
RE-5

RL-10

CRAMER

COOL

S17-0019/AT&T Auburn Lake Trails Zoning Map Exhibit D

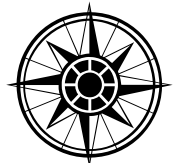


- RE-5
- RL-10

0 0.05 0.1 0.2 Kilometers



S17-0019/AT&T Auburn Lake Trails
Aerial Map
Exhibit E

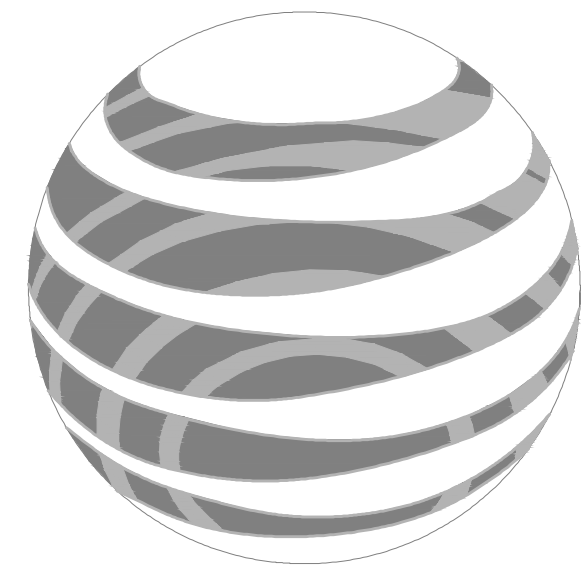


0 0.05 0.1 0.2 Kilometers

Exhibit F

SITE NUMBER: CVL00887

SITE NAME: AUBURN LAKE TRAILS



at&t

2125 CRAMER CT.
COOL, CA 95614
JURISDICTION: ELDORADO COUNTY

SITE TYPE: MONOPINE/WALK-IN EQUIPMENT CABINET

Issued For:
AUBURN LAKE TRAILS
2125 CRAMER CT.
COOL, CA 95614

PREPARED FOR
 at&t
2600 Camino Ramon, 4W850 N
San Ramon, California 94583



AT&T SITE NO: CVL00887
PROJECT NO: 13787685
DRAWN BY: CES
CHECKED BY: CES

REV	DATE	DESCRIPTION
0	09/19/17	ZD 90%
0	10/02/17	ZD 90%
0	10/11/17	ZD 100%

Licenser:

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.

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

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

PROJECT DESCRIPTION	PROJECT INFORMATION	PROJECT TEAM	SHEET INDEX	REV																											
<p>NEW SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY.</p> <ol style="list-style-type: none"> BRING POWER / TELCO / FIBER TO SITE LOCATION GRAVEL ROAD IMPROVEMENT FROM ROW 40'x45' FENCED LEASE AREA INSTALL AT&T APPROVED PRE-MANUFACTURED EQUIPMENT CABINET AND ASSOCIATED INTERIOR EQUIPMENT ADD (1) NEW GPS UNITS ADD 160'-0" MONOPINE ADD (12) ANTENNAS (4) PER ALPHA, BETA, GAMMA SECTOR ADD (21) PROPOSED RRUS ADD (6) DUAL DIPLEXERS ADD (4) SURGE SUPPRESSORS ADD (2) FUTURE 4' MICROWAVE DISHES ADD 6'-0" HIGH CHAIN LINK FENCE W/ VYNAL SLATS ADD 15KW DC DIESEL GENERATOR 	<p>PROPERTY INFORMATION: SITE NAME: AUBURN LAKE TRAILS SITE NUMBER: CVL00887</p> <p>SEARCH RING: AUBURN LAKE TRAILS FA# 13787685 SITE ADDRESS: 2125 CRAMER CT. COOL, CA 95614</p> <p>A.P.N. NUMBER: 071-400-30-100</p> <p>CURRENT USE: SINGLE FAMILY RESIDENTIAL, RURAL RESEDENTIAL</p> <p>PROPOSED USE: (U) UNMANNED TELECOMMUNICATION FACILITY</p> <p>JURISDICTION: ELDORADO COUNTY</p> <p>LATITUDE: N 38° 53' 43.62"</p> <p>LONGITUDE: W 120° 58' 51.04"</p> <p>GROUND ELEVATION: ±1719 FT. AMSL</p> <p>PROPERTY OWNER: RICHARD & LINDA MITCHAM 2125 CRAMER CT. COOL, CA 95614</p> <p>POWER AGENCY: PG&E PG&E CORPORATION 1 MARKET STREET, SPEAR TOWER SAN FRANCISCO, CA 94105 PH: 1-800-743-5000</p> <p>TELEPHONE AGENCY: AT&T 525 MARKET STREET, SPEAR TOWER SAN FRANCISCO, CA 94105 PH: 1-800-310-2355</p> <p>RFDS DATED 09-19-2017, ISSUE 1.0 REVISION 1.00</p>	<p>APPLICANT / LESSEE: AT&T 5001 EXECUTIVE PARKWAY SAN RAMON, CA 945834</p> <p>RF ENGINEER: AT&T CONTACT: ASAD SHAHBAZ EMAIL: MS455V@ATT.COM PH: (646) 369-2573</p> <p>PROJECT MGR.: EPIC WIRELESS CONTACT: NICK TAGAS EMAIL: NICK.TAGAS@EPICWIRELESS.NET PH: (916) 990-1446</p> <p>SITE ACQUISITION: COMPANY: EPIC WIRELESS CONTACT: JARED KEARSLEY (ZONING MGR.) EMAIL: JARED.KEARSLEY@EPICWIRELESS.NET CELL: (916) 755-1326</p> <p>CONSTRUCTION MGR.: COMPANY: EPIC WIRELESS CONTACT: PETE MANAS EMAIL: PETE.MANAS@EPICWIRELESS.NET PH: (530) 383-5957</p> <p>A&E DESIGN GROUP: COMPANY: EPIC WIRELESS CONTACT: CARL SYLVESTER CARL.SYLVESTER@EPICWIRELESS.NET PH: (530) 933-2763</p> <p>ARCHITECT / ENGINEER: ADAPTIVE RE-USE ENGINEERING CONTACT: CRAIG HORNER, PE 84674 EMAIL: CRAIGHORNER@YAHOO.COM PH: (214) 407-3184</p> <p>CIVIL VENDOR.: VINULLUMS CM CONTACT: KEN ABEL EMAIL: KABEL@VINULLUMS.COM PH: (916) 844-4602</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">T-1</td> <td>TITLE SHEET</td> </tr> <tr> <td>GN-1</td> <td>GENERAL NOTES</td> </tr> <tr> <td>C-1</td> <td>SITE SURVEY (BY OTHERS) FOR REFERENCE ONLY</td> </tr> <tr> <td>C-2</td> <td>SITE SURVEY (BY OTHERS) FOR REFERENCE ONLY</td> </tr> <tr> <td>C-2.1</td> <td>EROSION CONTROL NOTES</td> </tr> <tr> <td>C-2.2</td> <td>GRADING PLAN & DETAILS</td> </tr> <tr> <td>A-1</td> <td>OVERALL SITE PLAN - EXTERIOR WALK IN EQUIPMENT CABINET</td> </tr> <tr> <td>A-1.1</td> <td>SITE PLAN - EXTERIOR WALK IN EQUIPMENT CABINET</td> </tr> <tr> <td>A-2</td> <td>EQUIPMENT AREA PLAN - EXTERIOR WALK IN EQUIPMENT CABINET</td> </tr> <tr> <td>A-3</td> <td>ANTENNA PLAN & DETAILS - MONOPINE</td> </tr> <tr> <td>A-4.1</td> <td>PROPOSED MONOPINE NORTH - SOUTH ELEVATION</td> </tr> <tr> <td>A-4.2</td> <td>PROPOSED MONOPINE WEST - EAST ELEVATION</td> </tr> </table>	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-2.1	EROSION CONTROL NOTES	C-2.2	GRADING PLAN & DETAILS	A-1	OVERALL SITE PLAN - EXTERIOR WALK IN EQUIPMENT CABINET	A-1.1	SITE PLAN - EXTERIOR WALK IN EQUIPMENT CABINET	A-2	EQUIPMENT AREA PLAN - EXTERIOR WALK IN EQUIPMENT CABINET	A-3	ANTENNA PLAN & DETAILS - MONOPINE	A-4.1	PROPOSED MONOPINE NORTH - SOUTH ELEVATION	A-4.2	PROPOSED MONOPINE WEST - EAST ELEVATION				
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<p style="text-align: center;">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"> 2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R. (CALIFORNIA CODE OF REGULATIONS) 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (VOLUMES 1 & 2), (2015 INTERNATIONAL BUILDING CODE) 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, C.C.R., (2014 NATIONAL ELECTRICAL CODE) 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R., (2015 UNIFORM MECHANICAL CODE) 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R., (2015 UNIFORM PLUMBING CODE) 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R. 2016 CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24, C.C.R., (2015 INTERNATIONAL BUILDING CODE) 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R., (2015 INTERNATIONAL FIRE CODE) 2016 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24, C.C.R., (2015 INTERNATIONAL BUILDING CODE) 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R., (CALGreen) 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. ANSI/EIA-TIA-222-G ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS. <p>DISABLED ACCESS REQUIREMENTS THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE TITLE 24 PART 2, SECTION 11B-203.4</p>	<p style="text-align: center;">VICINITY MAP</p>	<p style="text-align: center;">DIRECTIONS FROM AT&T</p> <p>DIRECTIONS FROM AT&T'S OFFICE AT 2600 CAMINO RAMON, SAN RAMON, CA 2600 CAMINO RAMON SAN RAMON, CA 94583</p> <ol style="list-style-type: none"> GET ON I-680 N FROM CAMINO RAMON AND BOLLINGER CANYON RD 3 MIN (1.0 MI) HEAD SOUTHEAST ON CAMINO RAMON TOWARD BISHOP DR 0.2 MI CONTINUE STRAIGHT TO STAY ON CAMINO RAMON 0.1 MI TURN RIGHT ONTO BOLLINGER CANYON RD 0.4 MI USE THE RIGHT 2 LANES TO MERGE ONTO I-680 N VIA THE RAMP TO SACRAMENTO 0.3 MI FOLLOW I-680 N AND I-80 E TO ELM AVE IN AUBURN. TAKE EXIT 119C FROM I-80 E 1 H 42 MIN (115 MI) MERGE ONTO I-680 N 10.6 MI KEEP LEFT TO STAY ON I-680 N 5.0 MI KEEP LEFT AT THE FORK TO STAY ON I-680 N PARTIAL TOLL ROAD 5.9 MI KEEP LEFT AT THE FORK TO CONTINUE ON I-680 PARTIAL TOLL ROAD 14.4 MI USE ANY LANE TO TAKE EXIT 71A TOWARD I-80 E/SACRAMENTO 0.4 MI MERGE ONTO I-80 E 29.0 MI KEEP LEFT AT THE FORK TO STAY ON I-80 E 12.1 MI KEEP RIGHT AT THE FORK TO STAY ON I-80 E, FOLLOW SIGNS FOR RENO 37.7 MI TAKE EXIT 119C FOR ELM AVE 489 FT TAKE CA-193 E TO CRAMER CT IN COOL 18 MIN (8.9 MI) TURN LEFT ONTO ELM AVE (SIGNS FOR DOWNTOWN/AUBURN) 0.2 MI TURN LEFT ONTO CA-49 S/EL DORADO ST/HIGH ST 299 FT TURN RIGHT ONTO CA-193 E/CA-49 S/EL DORADO ST CONTINUE TO FOLLOW CA-193 E/CA-49 S 6.0 MI TURN LEFT ONTO CA-193 E 2.0 MI TURN RIGHT ONTO CRAMER RD PARTIAL RESTRICTED USAGE ROAD 0.3 MI TURN LEFT ONTO CRAMER CT RESTRICTED USAGE ROAD DESTINATION WILL BE ON THE LEFT 0.4 MI <p>2125 CRAMER CT COOL, CA 95614</p>																													
<p style="text-align: center;">OCCUPANCY AND CONSTRUCTION TYPE</p> <p>OCCUPANCY : U (UNMANNED) CONSTRUCTION TYPE: V-B</p>	<p style="text-align: center;">SPECIAL INSPECTIONS</p>	<p style="text-align: center;">APPROVALS</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>APPROVED BY:</th> <th>INITIALS:</th> <th>DATE:</th> </tr> </thead> <tbody> <tr> <td>AT&T:</td> <td></td> <td></td> </tr> <tr> <td>VENDOR:</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&E:</td> <td></td> <td></td> </tr> </tbody> </table>	APPROVED BY:	INITIALS:	DATE:	AT&T:			VENDOR:			R.F.:			LEASING / LANDLORD:			ZONING:			CONSTRUCTION:			POWER / TELCO:			PG&E:			<p style="text-align: center;">GENERAL CONTRACTOR NOTES</p> <p>DO NOT SCALE DRAWINGS</p> <p>THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 24" x 36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOBSITE AND SHALL 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>	
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GENERAL CONSTRUCTION NOTES:

- PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC/UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
- THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS

APPLICABLE CODES, REGULATIONS AND STANDARDS:

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.

THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
- INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
- IEEE 682.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
 TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
 TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
 TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

A.B.	ANCHOR BOLT	HT.	HEIGHT
ABV.	ABOVE	IGGB.	ISOLATED COPPER GROUND BUS
ACCA	ANTENNA CABLE COVER ASSEMBLY	IN. (")	INCH(ES)
ADD'L	ADDITIONAL	INT.	INTERIOR
A.F.F.	ABOVE FINISHED FLOOR	LB.(#)	POUND(S)
A.F.G.	ABOVE FINISHED GRADE	L.B.	LAG BOLTS
ALUM.	ALUMINUM	L.F.	LINEAR FEET (FOOT)
ALT.	ALTERNATE	L.	LONG(TUDINAL)
ANT.	ANTENNA	MAS.	MASONRY
APPRX.	APPROXIMATE(LY)	MAX.	MAXIMUM
ARCH.	ARCHITECT(URAL)	M.B.	MACHINE BOLT
AWG.	AMERICAN WIRE GAUGE	MECH.	MECHANICAL
BLDG.	BUILDING	MFR.	MANUFACTURER
BLK.	BLOCK	MIN.	MINIMUM
BLKG.	BLOCKING	MISC.	MISCELLANEOUS
BM.	BEAM	MTL.	METAL
B.N.	BOUNDARY NAILING	(N)	NEW
BTCW.	BARE TINNED COPPER WIRE	NO.(#)	NUMBER
B.O.F.	BOTTOM OF FOOTING	N.T.S.	NOT TO SCALE
B/U	BACK-UP CABINET	O.C.	ON CENTER
CAB.	CABINET	OPNG.	OPENING
CANT.	CANTILEVER(ED)	(P)	PROPOSED
C.I.P.	CAST IN PLACE	P/C	PRECAST CONCRETE
CLG.	CEILING	PCS	PERSONAL COMMUNICATION SERVICES
CLR.	CLEAR	PLY.	PLYWOOD
COL.	COLUMN	PPC	POWER PROTECTION CABINET
CONC.	CONCRETE	PRC	PRIMARY RADIO CABINET
CONN.	CONNECTION(OR)	P.S.F.	POUNDS PER SQUARE FOOT
CONST.	CONSTRUCTION	P.S.I.	POUNDS PER SQUARE INCH
CONT.	CONTINUOUS	P.T.	PRESSURE TREATED
d	DIMENSION	PWR.	POWER (CABINET)
DBL	DOUBLE	QTY.	QUANTITY
DEPT.	DEPARTMENT	RAD.(R)	RADIUS
D.F.	DOUGLAS FIR	REF.	REFERENCE
DIA.	DIAMETER	REINF.	REINFORCEMENT(ING)
DIAG.	DIAGONAL	REQ'D/	REQUIRED
DIM.	DIMENSION	RGS.	RIGID GALVANIZED STEEL
DWG.	DRAWING(S)	SCH.	SCHEDULE
DWL	DOWEL(S)	SHT.	SHEET
EA.	EACH	SM.	SIMILAR
EL.	ELEVATION	SPEC.	SPECIFICATIONS
ELEC.	ELECTRICAL	SQ.	SQUARE
ELEV.	ELEVATOR	S.S.	STAINLESS STEEL
EMT.	ELECTRICAL METALLIC TUBING	STD.	STANDARD
E.N.	EDGE NAIL	STL.	STEEL
ENG.	ENGINEER	STRUC.	STRUCTURAL
EQ.	EQUAL	TEMP.	TEMPORARY
EXP.	EXPANSION	THK.	THICK(NESS)
EXST.(E)	EXISTING	T.N.	TOE NAIL
EXT.	EXTERIOR	T.O.A.	TOP OF ANTENNA
(F)	FUTURE	T.O.C.	TOP OF CURB
FAB.	FABRICATION(OR)	T.O.F.	TOP OF FOUNDATION
F.F.	FINISH FLOOR	T.O.P.	TOP OF PLATE (PARAPET)
F.G.	FINISH GRADE	T.O.S.	TOP OF STEEL
FIN.	FINISH(ED)	T.O.W.	TOP OF WALL
FLR.	FLOOR	TYP.	TYPICAL
FDN.	FOUNDATION	U.G.	UNDER GROUND
F.O.C.	FACE OF CONCRETE	U.L.	UNDERWRITERS LABORATORY
F.O.M.	FACE OF MASONRY	UN.L.O.	UNLESS NOTED OTHERWISE
F.O.S.	FACE OF STUD	V.I.F.	VERIFY IN FIELD
F.O.W.	FACE OF WALL	W	WIDE (WIDTH)
F.S.	FINISH SURFACE	W/	WITH
FT.(")	FOOT (FEET)	WD.	WOOD
FTG.	FOOTING	WP.	WEATHERPROOF
G.	GROWTH (CABINET)	WT.	WEIGHT
GA.	GAUGE	C	CENTERLINE
GI.	GALVANIZE(D)	P	PLATE, PROPERTY LINE
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER		
GLB. (GLU-LAM)	GLUE LAMINATED BEAM		
GPS	GLOBAL POSITIONING SYSTEM		
GRND.	GROUND		
HDR.	HEADER		
HGR.	HANGER		

SYMBOLS LEGEND

	BLDG. SECTION A-300		GROUT OR PLASTER		(P) ANTENNA
	ROAD SECTION A-300		(E) BRICK		(P) RRU
	WALL SECTION A-310		(E) MASONRY		(P) DC SURGE SUPPRESSION
	DETAIL A-500		CONCRETE		(F) ANTENNA
	ELEVATION A-113		EARTH		(F) RRU
	DOOR SYMBOL 001		GRAVEL		(E) EQUIPMENT
	WINDOW SYMBOL 10		PLYWOOD		
	TILT-UP PANEL MARK 3		SAND		
	PROPERTY LINE		PLYWOOD		
	CENTERLINE		SAND		
	ELEVATION DATUM ±0		(E) STEEL		
	GRID/COLUMN LINE A		MATCH LINE		
	KEYNOTE, DIMENSION ITEM 3		GROUND CONDUCTOR		
	KEYNOTE, CONSTRUCTION ITEM 2		OH OVERHEAD SERVICE CONDUCTORS		
	WALL TYPE MARK W-3		TELCO TELEPHONE CONDUIT		
	OFFICE 101		POWER CONDUIT		
	ROOM NAME ROOM NUMBER		POWER/TELCO CONDUIT		
			COAXIAL CABLE		
			HYBRID CABLE		
			CHAIN LINK FENCE		
			WOOD FENCE		
			EXISTING FLOW LINE		
			NEW FLOW LINE		
			FIBER ROLL		
			SILT FENCE		

Issued For:
AUBURN LAKE TRAILS
 2125 CRAMER CT.
 COOL, CA 95614

PREPARED FOR

 2600 Camino Ramon, 4W850 N
 San Ramon, California 94583

WIRELESS GROUP

AT&T SITE NO: CVL00887
 PROJECT NO: 13787685
 DRAWN BY: CES
 CHECKED BY: CES

REV	DATE	DESCRIPTION
0	09/19/17	ZD 90%
0	10/02/17	ZD 90%
0	10/11/17	ZD 100%

Licensior:

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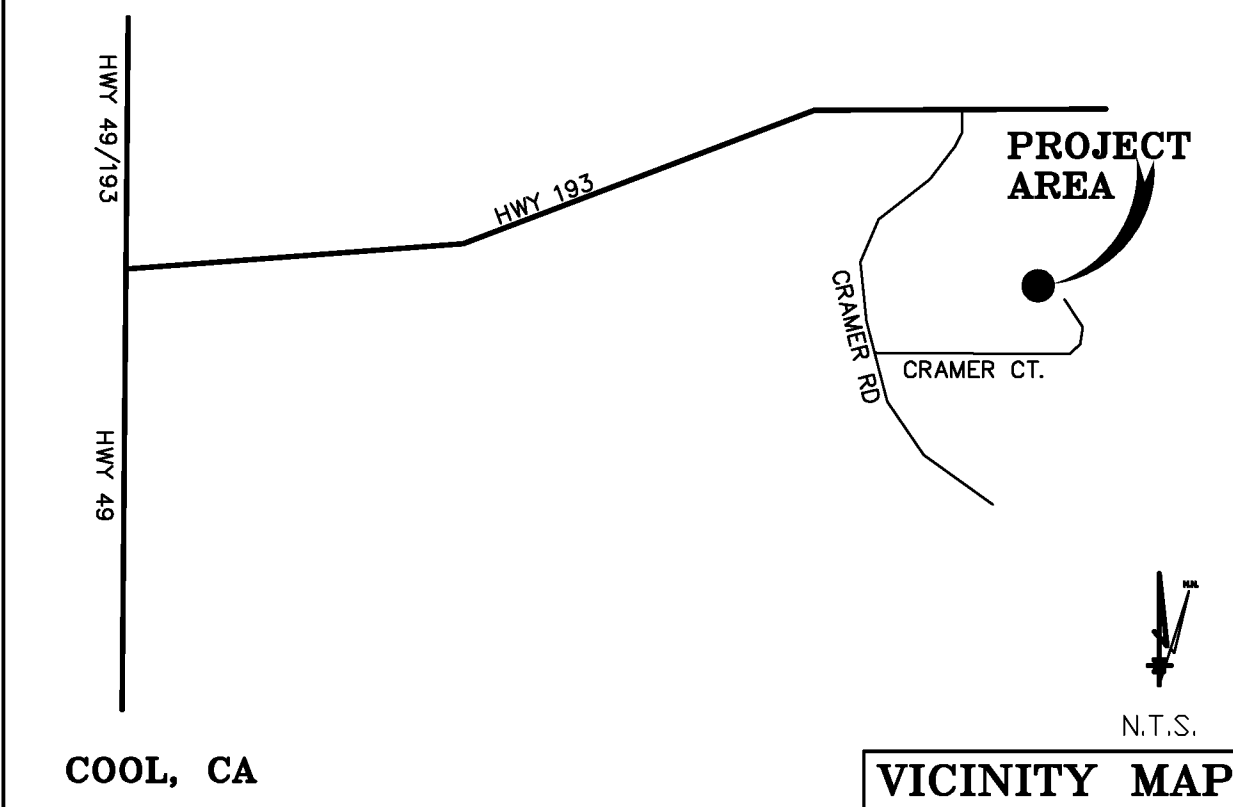
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 3112 LEATHA WAY
 SACRAMENTO, CA 95821
 craighorner@yahoo.com

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN-1

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COOL, CA VICINITY MAP

Geil Engineering
Engineering * Surveying * Planning
1226 High Street
Auburn, California 95603-5015
Phone: (530) 885-0426 * Fax: (530) 823-1309

A.T. & T. Mobility
Project No./Name: CVL00887 / AUBURN LAKE TRAILS
Project Site Location: 2125 Cramer Ct.
Cool, CA 95614
El Dorado County
Date of Observation: 08-31-17

Equipment/Procedure Used to Obtain Coordinates: Trimble Pathfinder Pro XL post processed with Pathfinder Office software.

Type of Antenna Mount: Proposed Monopine Tower

Coordinates (Tower)
Latitude: N 38° 53' 43.62" (NAD83) N 38° 53' 43.98" (NAD27)
Longitude: W 120° 58' 51.04" (NAD83) W 120° 58' 47.25" (NAD27)

ELEVATION of Ground at Structure (NAVD88) 1719' AMSL

CERTIFICATION: I, the undersigned, do hereby certify elevation listed above is based on a field survey done under my supervision and that the accuracy of those elevations meet or exceed 1-A Standards as defined in the FAA ASAC Information Sheet 91:003, and that they are true and accurate to the best of my knowledge and belief.

Kenneth D. Geil California RCE 14803

Lease Area Description

All that certain lease area being a portion of that certain Parcel "A" as is shown on that certain Parcel Map filed for record at Book 35 of Parcel Maps, Page 107, El Dorado County Records, located in the County of El Dorado, State of California, and being a portion of Section 16, Township 12 N., Range 9 E., M.D.B. & M, and being more particularly described as follows:

Beginning at a point from which a 1-1/2" C.I.P. "L.S.3012" set for the Southeast corner of Parcel "B" of the above referenced Parcel Map bears South 39°50'51" East 361.45 feet; thence from said True Point of Beginning North 45.00 feet; thence West 40.00 feet; thence South 45.00 feet; thence East 40.00 feet to the point of beginning.

Together with a non-exclusive easement for access and utility purposes fifteen feet in width the centerline of which is described as follows: beginning at a point which bears West 7.50 feet from the Northwest corner of the above described lease area and running thence South 49.60 feet; thence through a tangent curve to the left having a radius of 57.50 feet and running through a curve length of 108.32 feet; thence tangent to the previous curve North 72°03'57" East 8.54 feet; thence through a tangent curve to the right having a radius of 50.00 feet and running through a curve length of 18.23 feet; thence tangent to the previous curve South 87°02'20" East 49.69 feet; thence through a tangent curve to the right having a radius of 50.00 feet and running through a curve length of 53.84 feet; thence tangent to the previous curve South 25°20'22" East 14.8 feet more or less to the Southerly boundary of the above referenced Parcel "A".

Also together with a non-exclusive easement for utility purposes six feet in width the centerline of which is described as follows: beginning at a point which bears East 3.66 feet from the Northwest corner of the above described lease area and running thence North 34°52'08" East 99.2 feet more or less to the existing utility pole.

DATE OF SURVEY: 08-31-17

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, R.C.E. 14803

LOCATED IN THE COUNTY OF EL DORADO, STATE OF CALIFORNIA

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL.

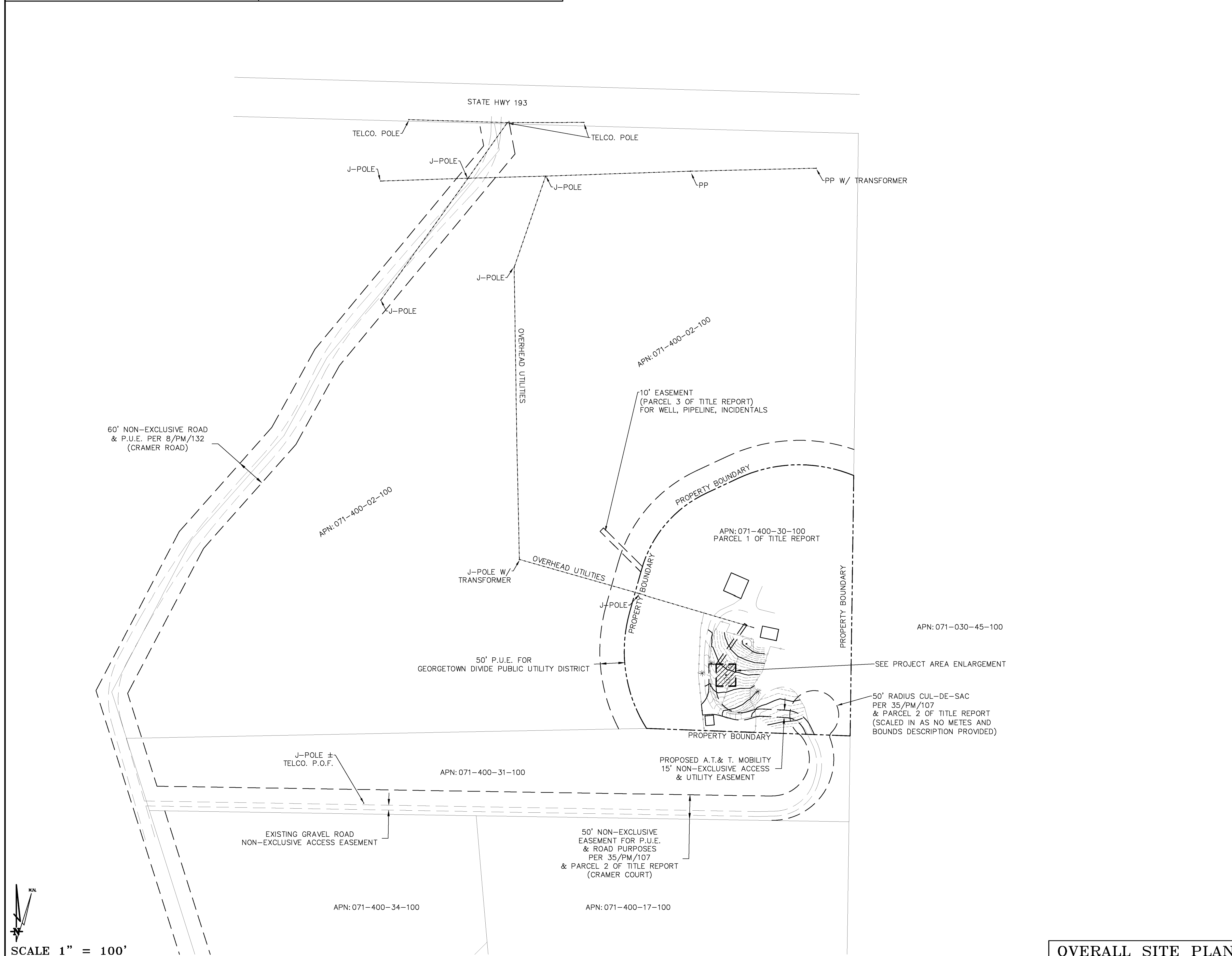
N.G.V.D. 1929 CORRECTION: SUBTRACT 2.67' FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: 1'

CONTRACTOR IS RESPONSIBLE TO VERIFY LEASE AREA PRIOR TO CONSTRUCTION.

ASSESSOR'S PARCEL NUMBER: 071-400-30-100

OWNER(S): RICHARD & LINDA MITCHAM
2125 CRAMER CT.
COOL, CA 95614



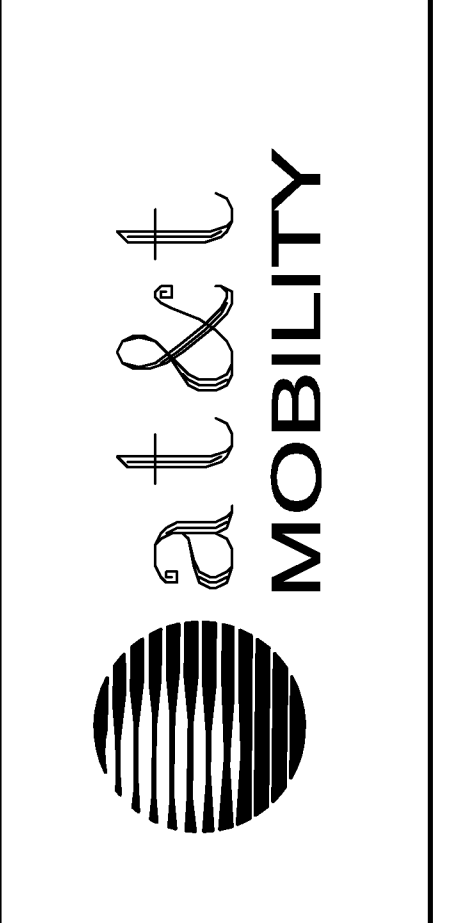
SCALE 1" = 100'

OVERALL SITE PLAN

DEPT	APPROVED	DATE
ARC		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor
GEIL ENGINEERING
ENGINEERING * SURVEYING * PLANNING
1226 HIGH STREET
AUBURN, CALIFORNIA 95603
Phone: (530) 885-0426 Fax: (530) 823-1309

Architect
A.T. & T. Mobility



CVL00887 AUBURN LAKE TRAILS
2125 CRAMER CT.
COOL, CA 95614
PLOT PLAN AND SITE TOPOGRAPHY

REVISIONS	NO.	DATE	DESCRIPTION
REV	08-31-17	N. RCHD	PRELIMINARY DRAWING
REV	09-20-17	N. RCHD	LEASE AREA MOD.
REV	09-22-17	N. RCHD	REDLINES
REV			
REV			

Sheet
C-1

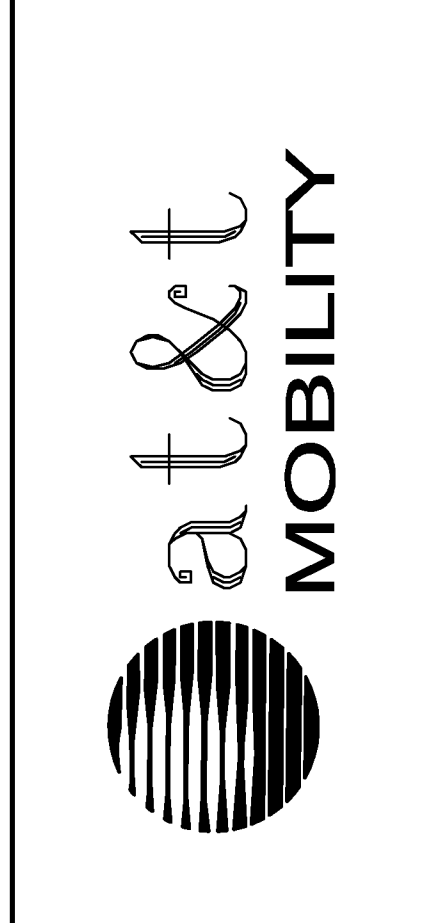
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DEPT	APPROVED	DATE
ARC		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor
GEIL ENGINEERING
 ENGINEERING • SURVEYING • PLANNING
 1526 HIGH STREET
 AUBURN, CALIFORNIA 96905
 Phone: (530) 838-1888
 Fax: (530) 838-1308

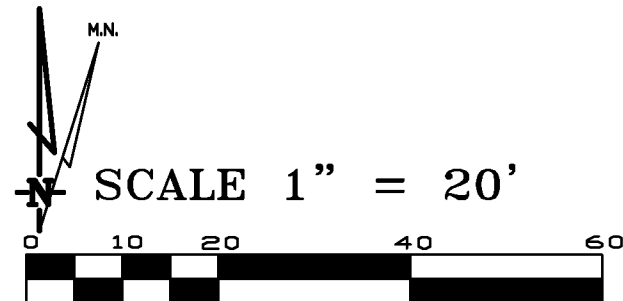
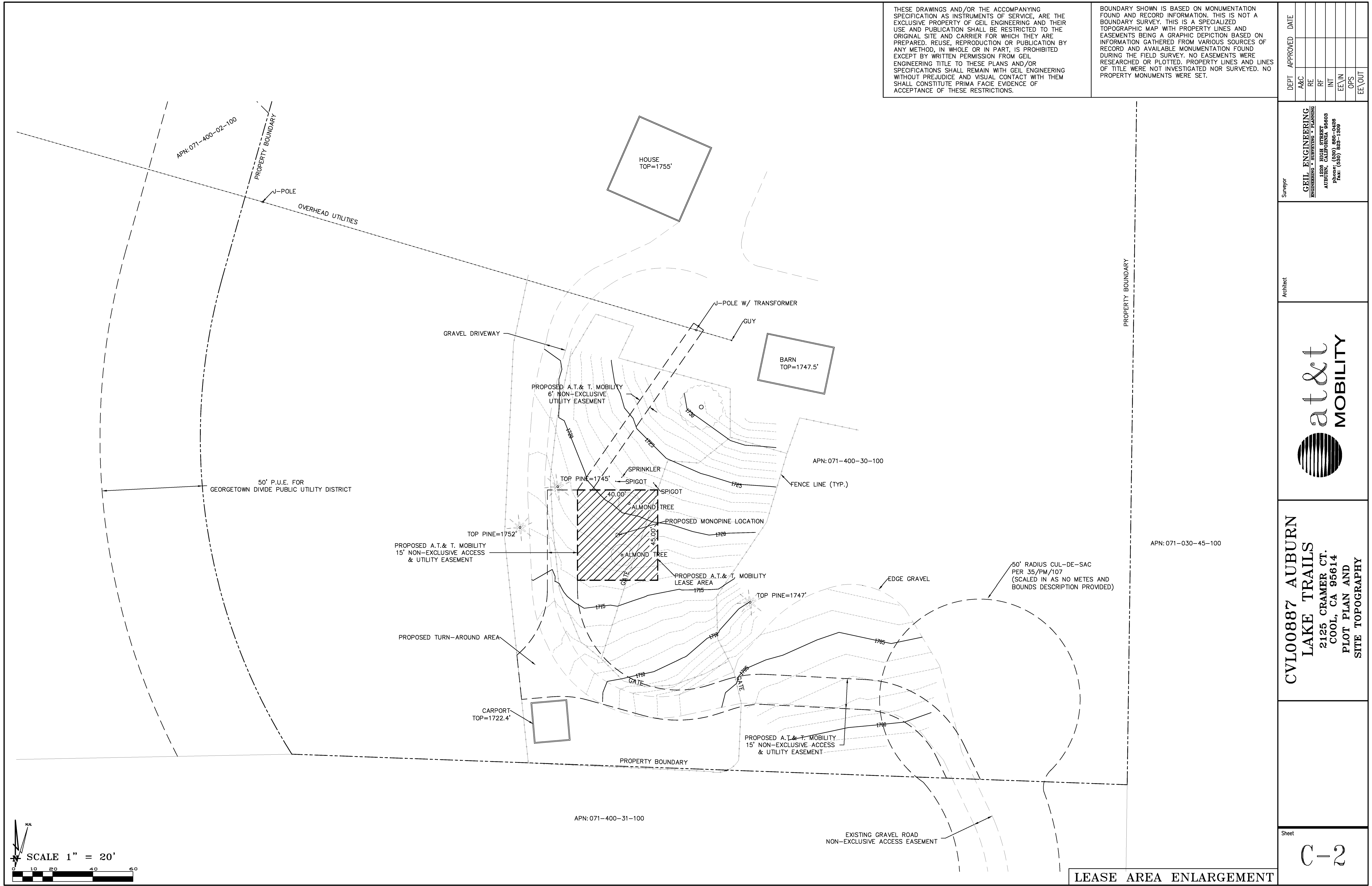
Architect



CVL00887 AUBURN LAKE TRAILS
 2125 CRAMER CT.
 COOL, CA 95614
 PLOT PLAN AND SITE TOPOGRAPHY

Sheet

C-2



LEASE AREA ENLARGEMENT

**CONSTRUCTION EROSION/
SEDIMENTATION CONTROL PLAN**

NOTES:

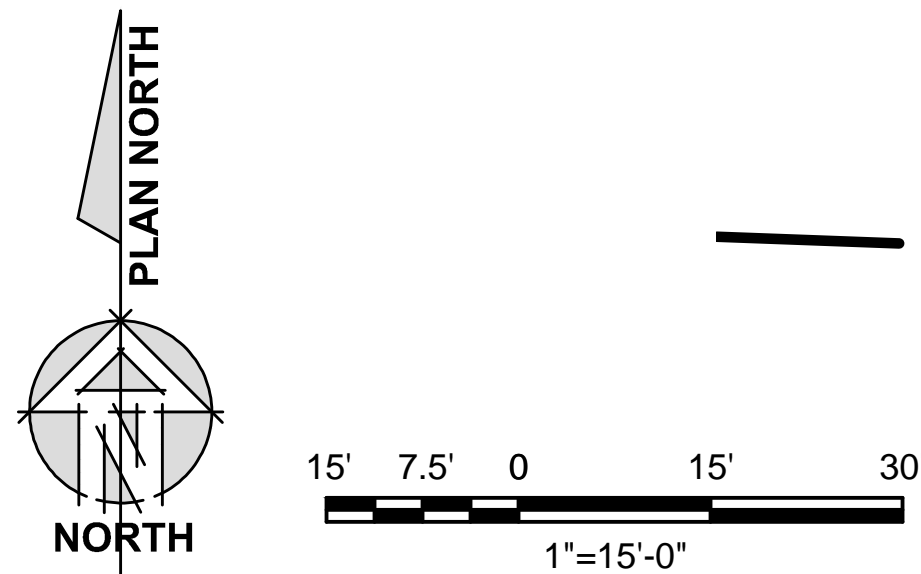
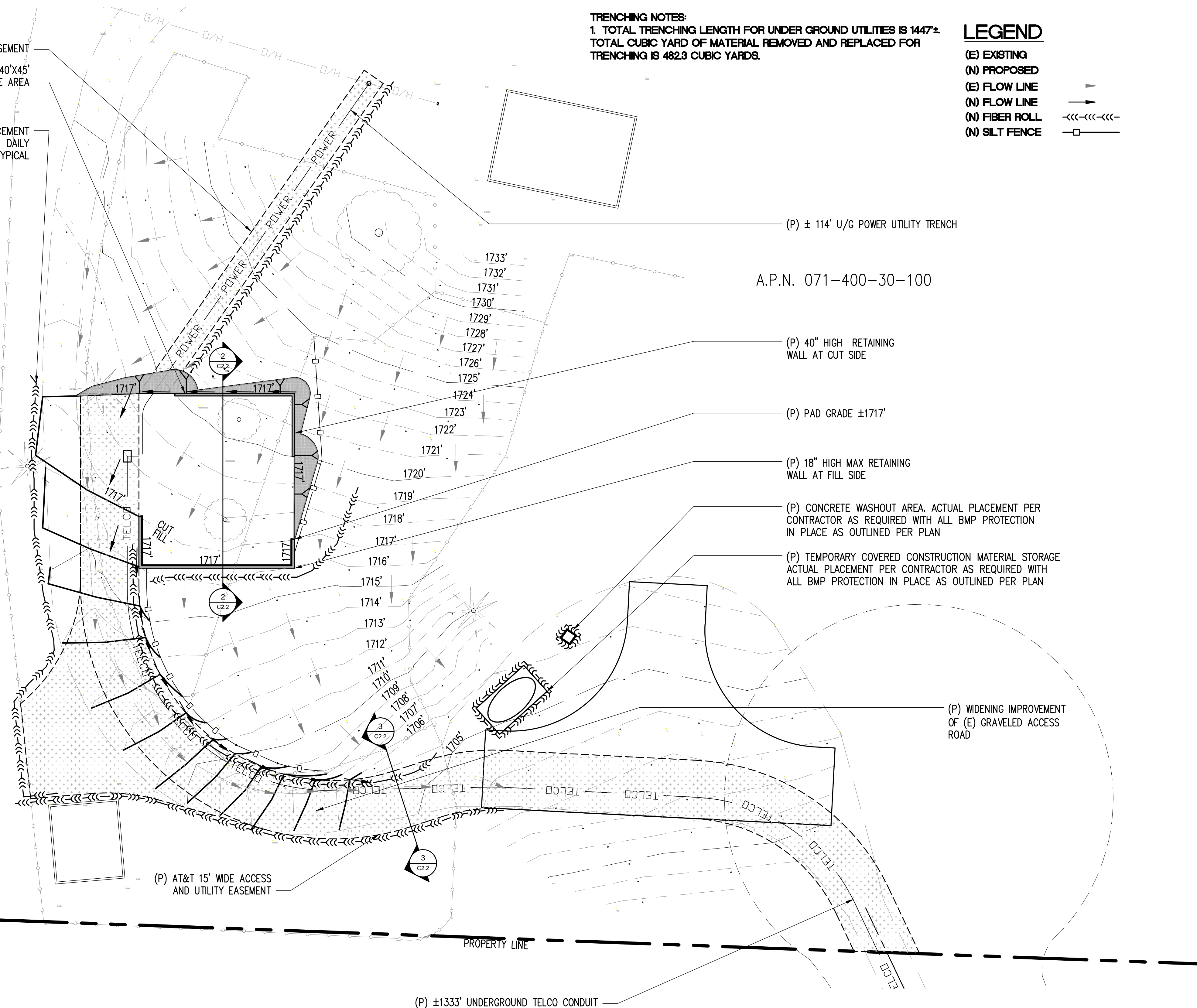
- USE "BMP's" AT ALL PHASES OF CONSTRUCTION.
- GRAVEL BAGS WITH FIBER ROLLS AND SILT BARRIER AS NEEDED AND/OR BAG INLET FILTERS TO BE USED FOR INLET PROTECTION FROM CONSTRUCTION CONTAMINATES. CONTRACTOR TO FIELD IDENTIFY ALL CONDITIONS WHERE THIS MAY APPLY AND MAINTAIN DURING THE COURSE OF CONSTRUCTION. 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 WAYS. 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 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.
- 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.
- 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.
- INSTALL SEDIMENT LOGS AROUND CONSTRUCTION AREA TO KEEP DEBRIS ON PROPERTY.
- PLACE GRAVEL BAGS AROUND NEARBY, DOWN STREAM STORM INLET(S) DURING CONSTRUCTION.
- REPAIR OR REPLACE SPLIT, TORN UNRAVELING OR SLUMPING FIBER ROLLS. FIBER ROLLS TO BE STAKED 4' O.C. PARALLEL TO (E) CONTOURS.
- 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.
- 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 BARRIER SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH AND AS APPROVED BY THE LANDSCAPE INSPECTOR.
- ON-SITE WATER TRUCK MAY BE REQUIRED FOR DUST MITIGATION.

(P) AT&T 6' WIDE UTILITY EASEMENT
(P) AT&T 40'x45' LEASE AREA
(P) BMP FIBER ROLL PLACEMENT PER CONTRACTOR BASED ON DAILY CONSTRUCTION ACTIVITIES, TYPICAL

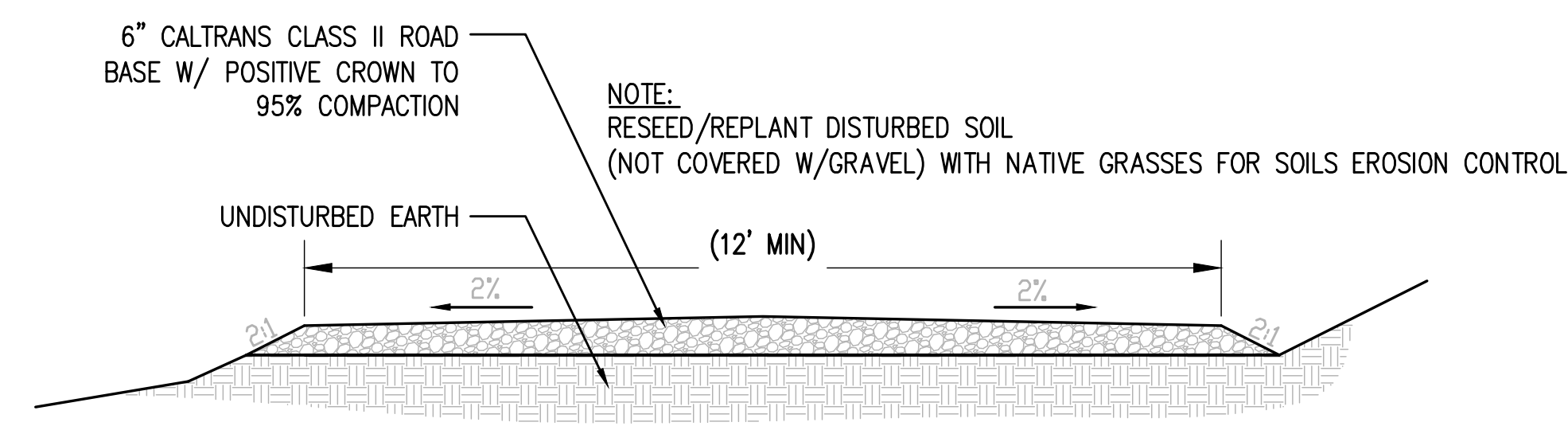
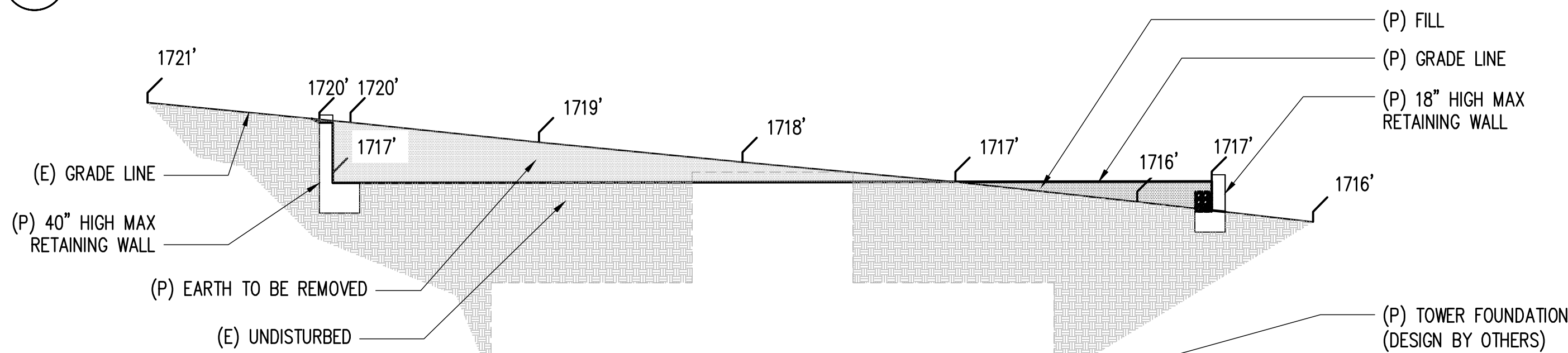
TRENCHING NOTES:
1. TOTAL TRENCHING LENGTH FOR UNDER GROUND UTILITIES IS 1447±.
TOTAL CUBIC YARD OF MATERIAL REMOVED AND REPLACED FOR TRENCHING IS 482.3 CUBIC YARDS.

LEGEND

- (E) EXISTING
- (N) PROPOSED
- (E) FLOW LINE
- (N) FLOW LINE
- (N) FIBER ROLL
- (N) SILT FENCE



1 GRADING PLAN
1"=15'-0"



SITE TYPE: MONOPINE/WALK IN EQUIPMENT CABINET

Issued For:
AUBURN LAKE TRAILS
2125 CRAMER CT.
COOL, CA 95614

PREPARED FOR
at&t
2600 Camino Ramon, 4W850 N
San Ramon, California 94583

WIRELESS GROUP
EPIC

AT&T SITE NO: CVL00887
PROJECT NO: 13787685
DRAWN BY: CES
CHECKED BY: CES

REV	DATE	DESCRIPTION
0	09/19/17	ZD 90%
0	10/02/17	ZD 90%
0	10/11/17	ZD 100%

Licensors:
CRAIG M. HORNER
REGISTERED PROFESSIONAL ENGINEER
No. 84674
CIVIL
STATE OF CALIFORNIA

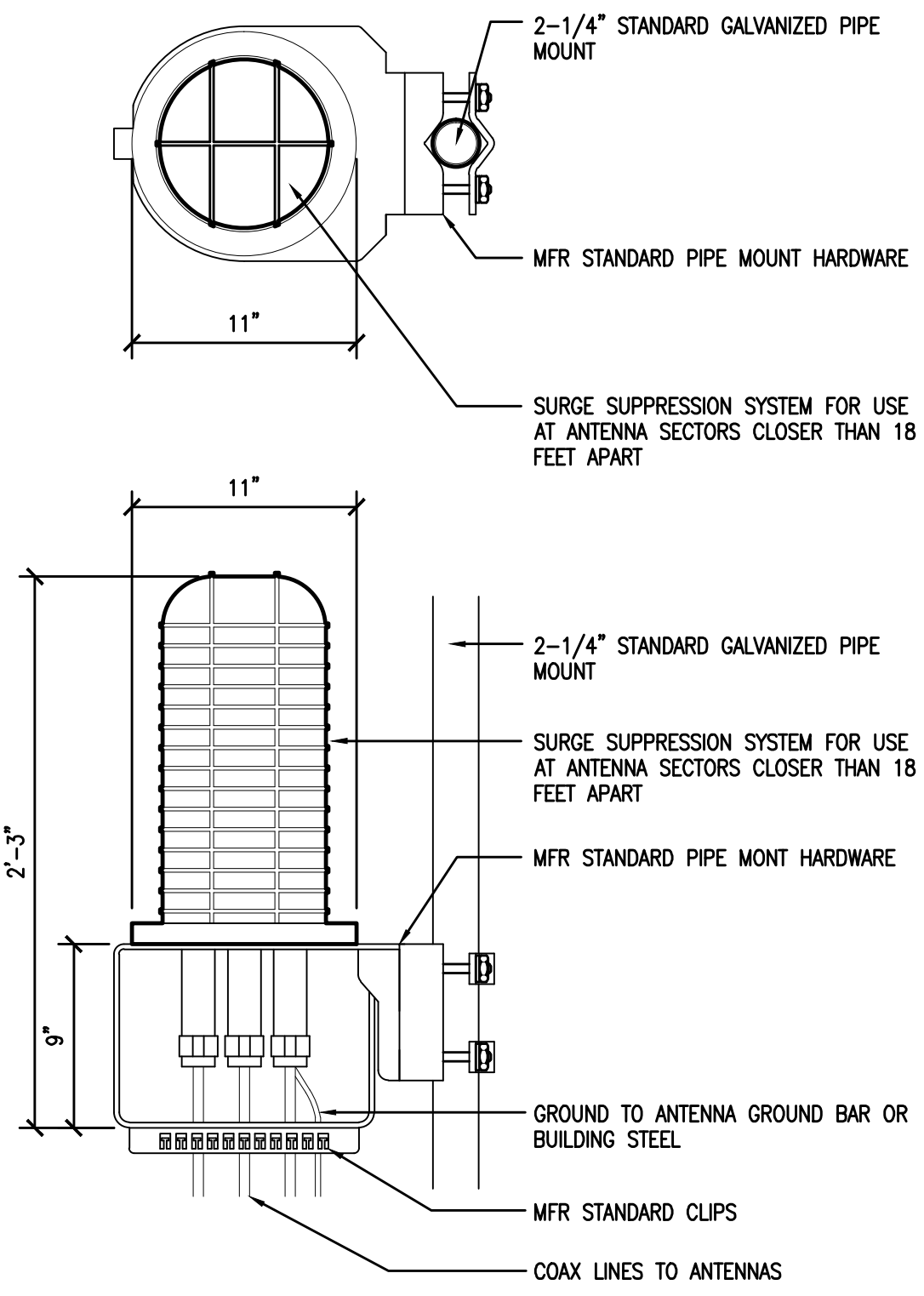
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3112 LEATHA WAY
SACRAMENTO, CA 95821
craigmhorner@yahoo.com

SHEET TITLE:
GRADING PLAN AND DETAILS

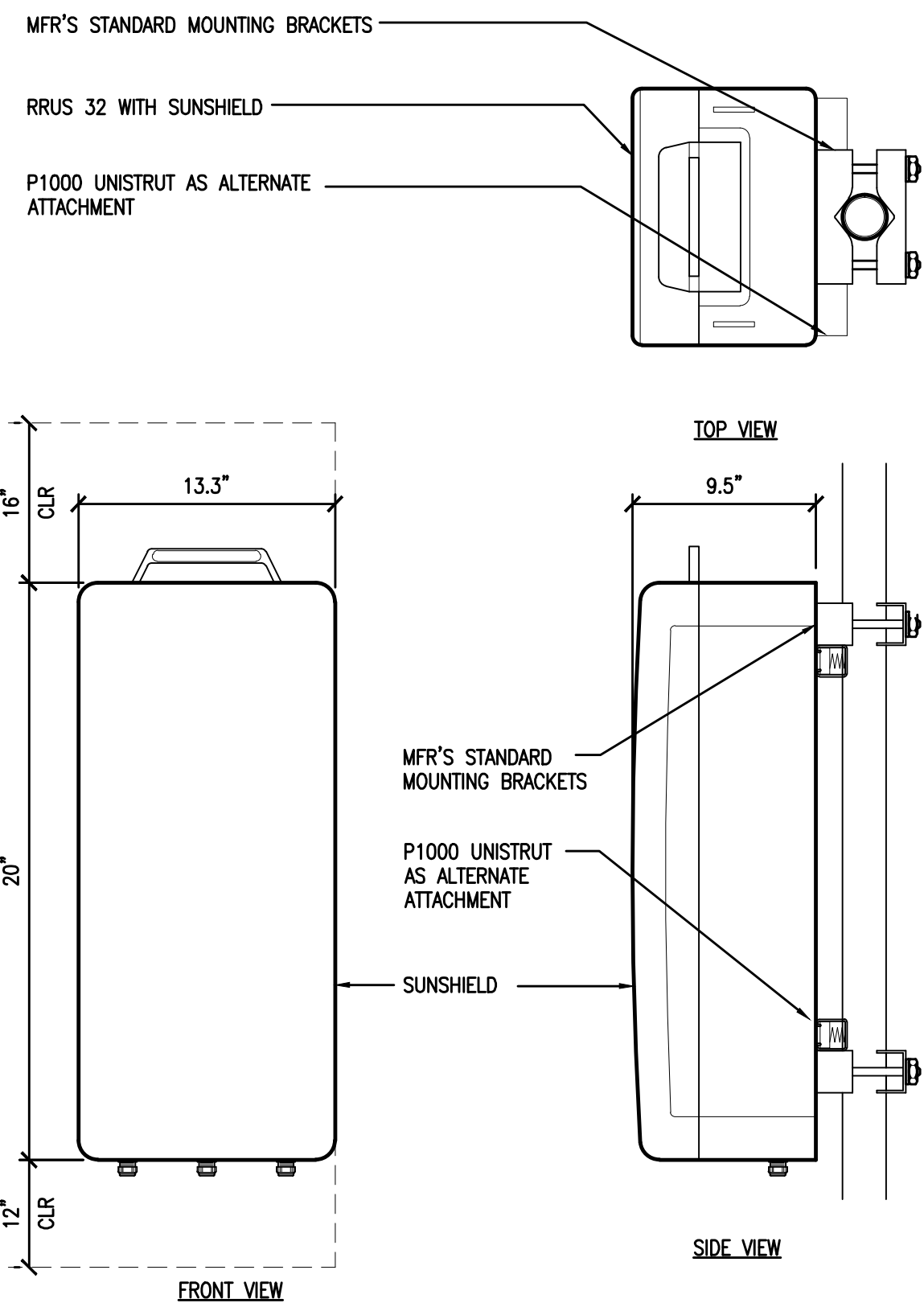
SHEET NUMBER:
C-2.2

RAYCAP DC6-48-60-18-8C &
DC6-48-60-0-8C SURGE SUPPRESSION
SOLUTION
COLOR: BLACK/SILVER
DIMENSIONS: 11" DIA X 27" TALL W/ 9" BASE
WEIGHT: +/- 50 LBS. (INCLUDING MOUNTING HARDWARE)

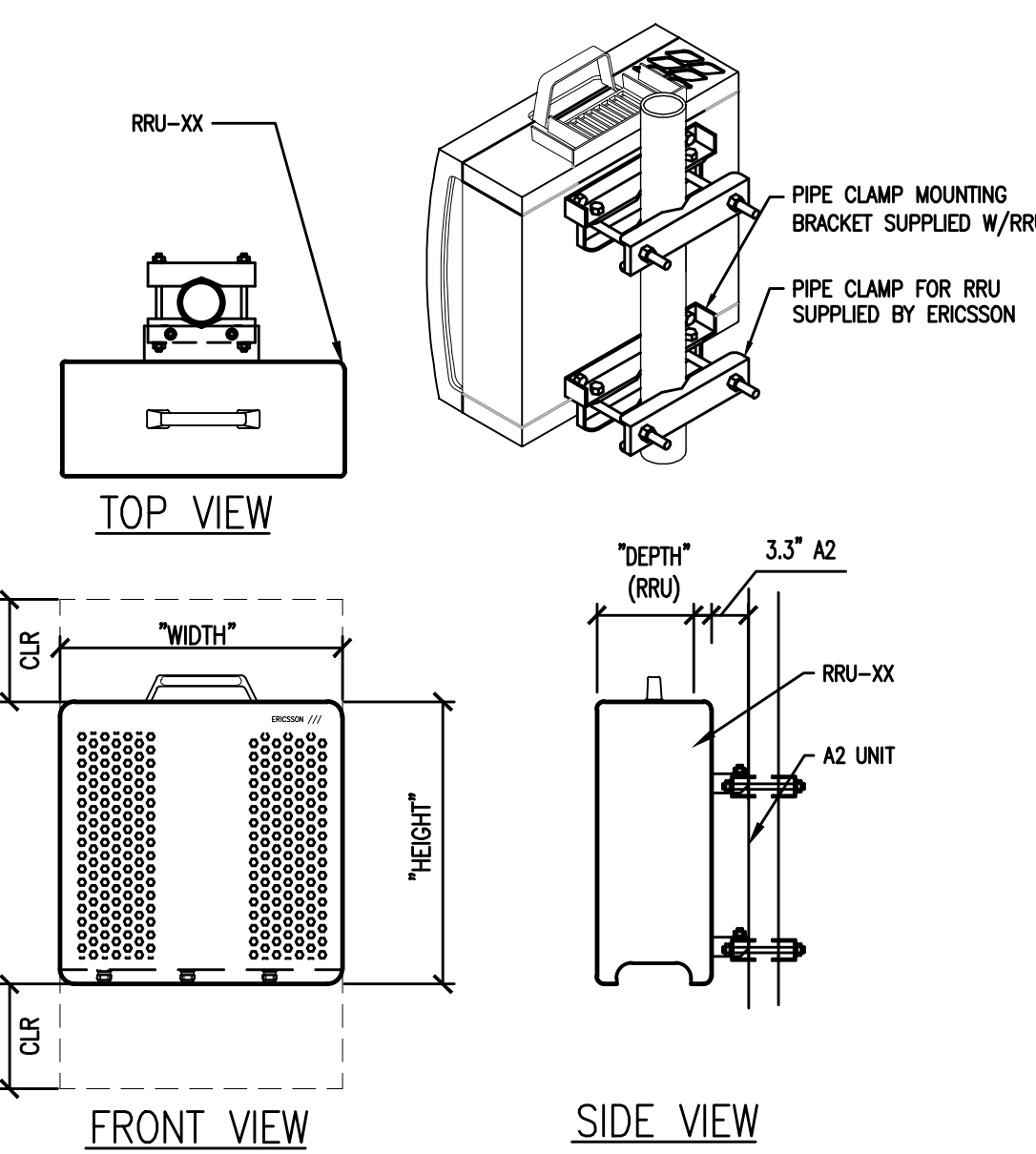


1 DC SURGE SUPPRESSION (SQUID)
1 1/2"=1'-0"

ERICSSON WCS RRU-32
MODEL: KRC161 423/1
COLOR: WHITE
DIMENSIONS: 29.9" TALL X 13.3" WIDE X 9.5" DEEP (INCLUDING SUNSHIELD)
WEIGHT: +/- 77LBS. (INCLUDING MOUNTING HARDWARE)

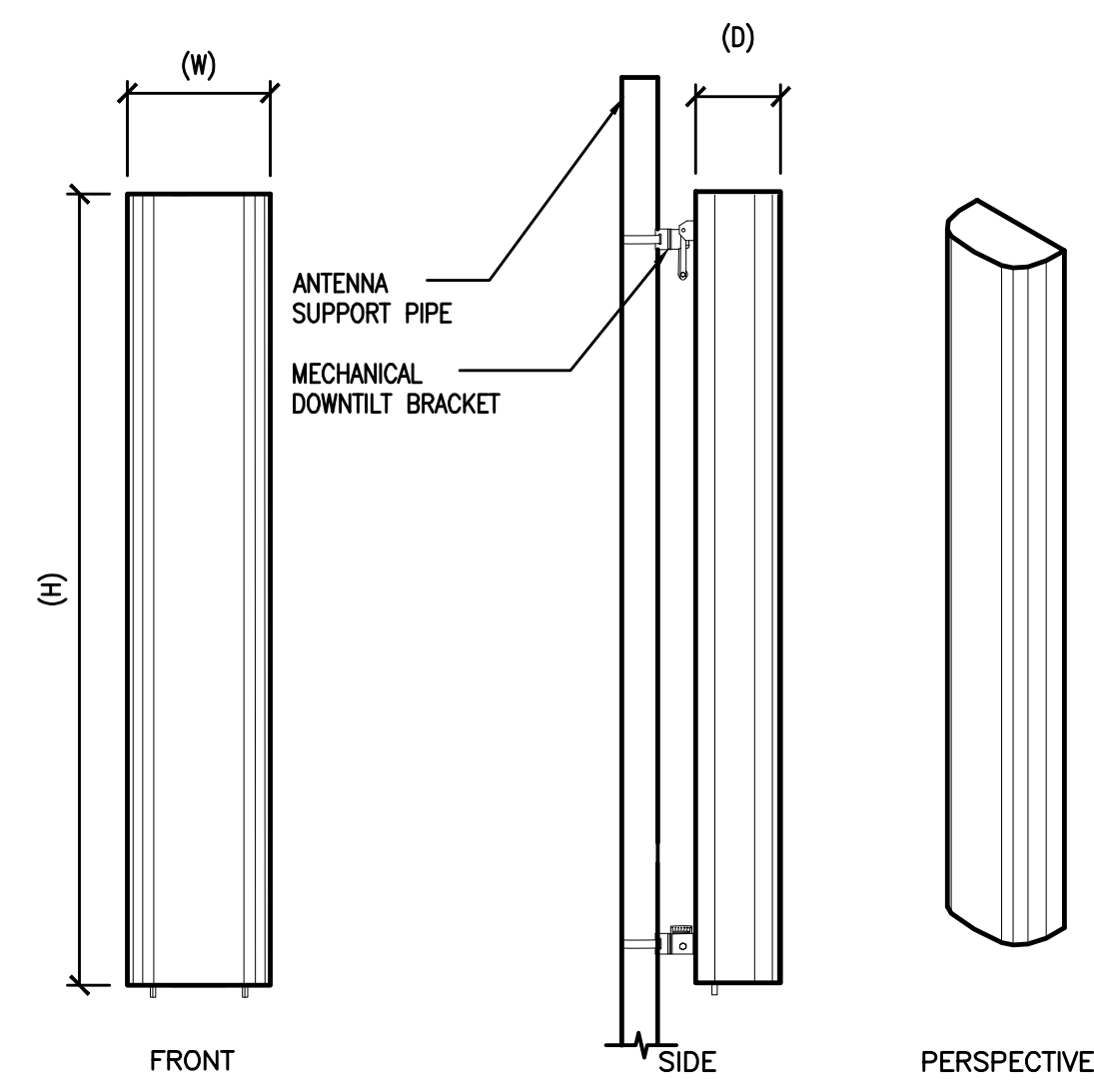


2 ERICSSON WCS RRU-32 REMOTE RADIO UNIT
1 1/2"=1'-0"



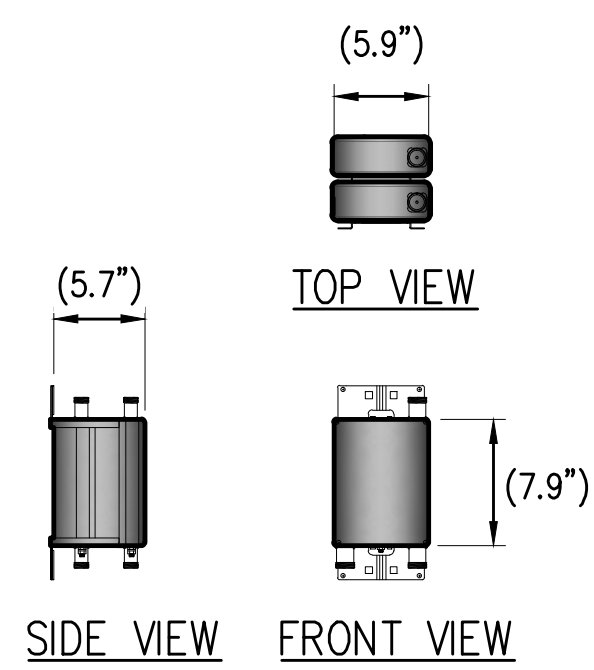
TYPE	HEIGHT	WIDTH	DEPTH	WEIGHT
RRUS-11	17.8"	17.3"	7.19"	50 LBS
RRUS-12	20.4"	18.5"	7.5"	57.5 LBS
RRUS-E2	20.4"	18.5"	7.5"	53 LBS
RRUS-B14	15"	13.2"	7.4"	59.9 LBS
RRUS-B5	15"	13.2"	7.4"	59.9 LBS

3 ERICSSON RRU- REMOTE RADIO UNIT
1 1/2"=1'-0"



ANTENNA = KATHREIN 800-10966K
WIND AREA = 13.3 SQ.FT.
WEIGHT = 114.6 LBS
DIMENSIONS = 96" (H) x 20" (W) x 6.9" (D)
ANTENNA = ANDREW/COMMSCOPE SBNHH-1D65C
WIND AREA = 7.9 SQ.FT.
WEIGHT = 49.6 LBS
DIMENSIONS = 96" (H) x 11.9" (W) x 7.1" (D)

4 ANTENNA SPEC
3/4"=1'-0"

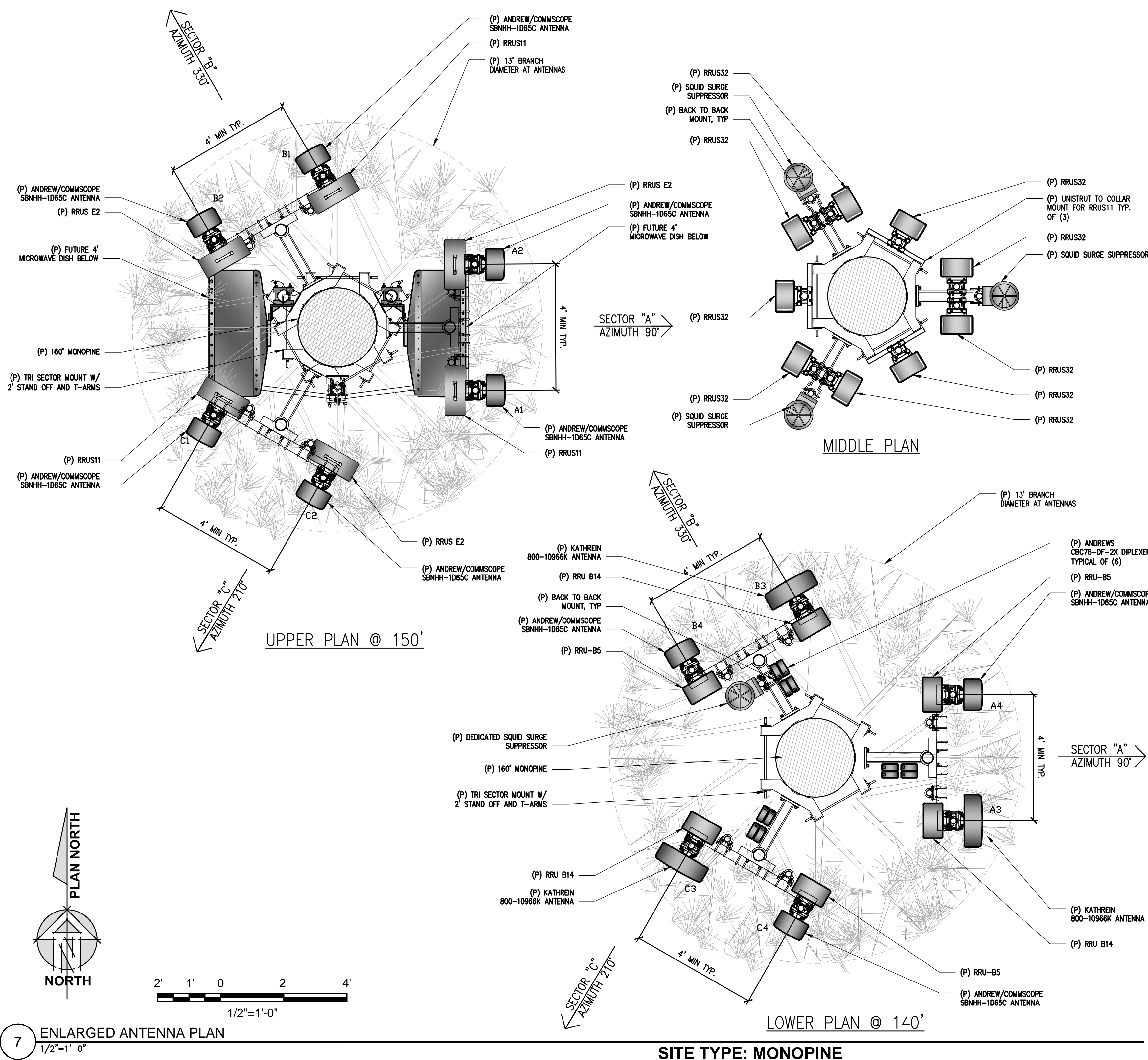


MAKE: ANDREW; MODEL:
CBC78-DF-2X; WEIGHT 13.8
LBS

5 DIPLEXER
1 1/2"=1'-0"

6 RF SCHEDULE
NOT TO SCALE

RF SCHEDULE									
SECTOR	ANTENNA MODEL NO.	TECHNOLOGY	AZIMUTH	RAD CENTER	RRU	DIPLEXER	FIBER LENGTH	COAX LENGTH	FIBER NO.
A L P H A	A1	SBNHH-1D65C	700/PCS	90° ± 150'-0"	(1) RRU11 (1) RRU32	N/A	± 180'	± N/A	TRUNK 1
	A2	SBNHH-1D65C	B29/AWS	90° ± 150'-0"	(1) RRU22 (1) RRU32	N/A	± 180'	± N/A	TRUNK 1
	A3	800-10966K	B14/850	90° ± 140'-0"	(1) RRU B14 (1) RRU B5	(2) CBC78-DF-2X	± 170'	± N/A	TRUNK 1
	A4	SBNHH-1D65C	FWLL	90° ± 140'-0"	(1) RRU32	N/A	± 170'	± N/A	TRUNK 4
B E T A	B1	SBNHH-1D65C	700/PCS	330° ± 150'-0"	(1) RRU11 (1) RRU32	N/A	± 180'	± N/A	TRUNK 2
	B2	SBNHH-1D65C	B29/AWS	330° ± 150'-0"	(1) RRU22 (1) RRU32	N/A	± 180'	± N/A	TRUNK 2
	B3	800-10966K	B14/850	330° ± 140'-0"	(1) RRU B14 (1) RRU B5	(2) CBC78-DF-2X	± 170'	± N/A	TRUNK 2
	B4	SBNHH-1D65C	FWLL	330° ± 140'-0"	(1) RRU32	N/A	± 170'	± N/A	TRUNK 4
G A M M A	C1	SBNHH-1D65C	700/PCS	210° ± 150'-0"	(1) RRU11 (1) RRU32	N/A	± 180'	± N/A	TRUNK 3
	C2	SBNHH-1D65C	B29/AWS	210° ± 150'-0"	(1) RRU22 (1) RRU32	N/A	± 180'	± N/A	TRUNK 3
	C3	800-10966K	B14/850	210° ± 140'-0"	(1) RRU B14 (1) RRU B5	(2) CBC78-DF-2X	± 170'	± N/A	TRUNK 3
	C4	SBNHH-1D65C	FWLL	210° ± 140'-0"	(1) RRU32	N/A	± 170'	± N/A	TRUNK 4
RF DATA SHEET v1.00.00 DATED 09/19/17					(2) PROPOSED RRU				



7 ENLARGED ANTENNA PLAN
1/2"=1'-0"

Issued For:
AUBURN LAKE TRAILS
2125 CRAMER CT.
COOL, CA 95614

PREPARED FOR
at&t
2600 Camino Ramon, 4W850 N
San Ramon, California 94583

EPIC
WIRELESS GROUP

AT&T SITE NO: CVL00887
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3112 LEATHA WAY
SACRAMENTO, CA 95821
craigmhorner@yahoo.com

SHEET TITLE:
ANTENNA PLAN & DETAILS

SHEET NUMBER:
A-3

Exhibit G

CVL00887 AUBURN LAKE TRAILS

Zoning Propagation Map

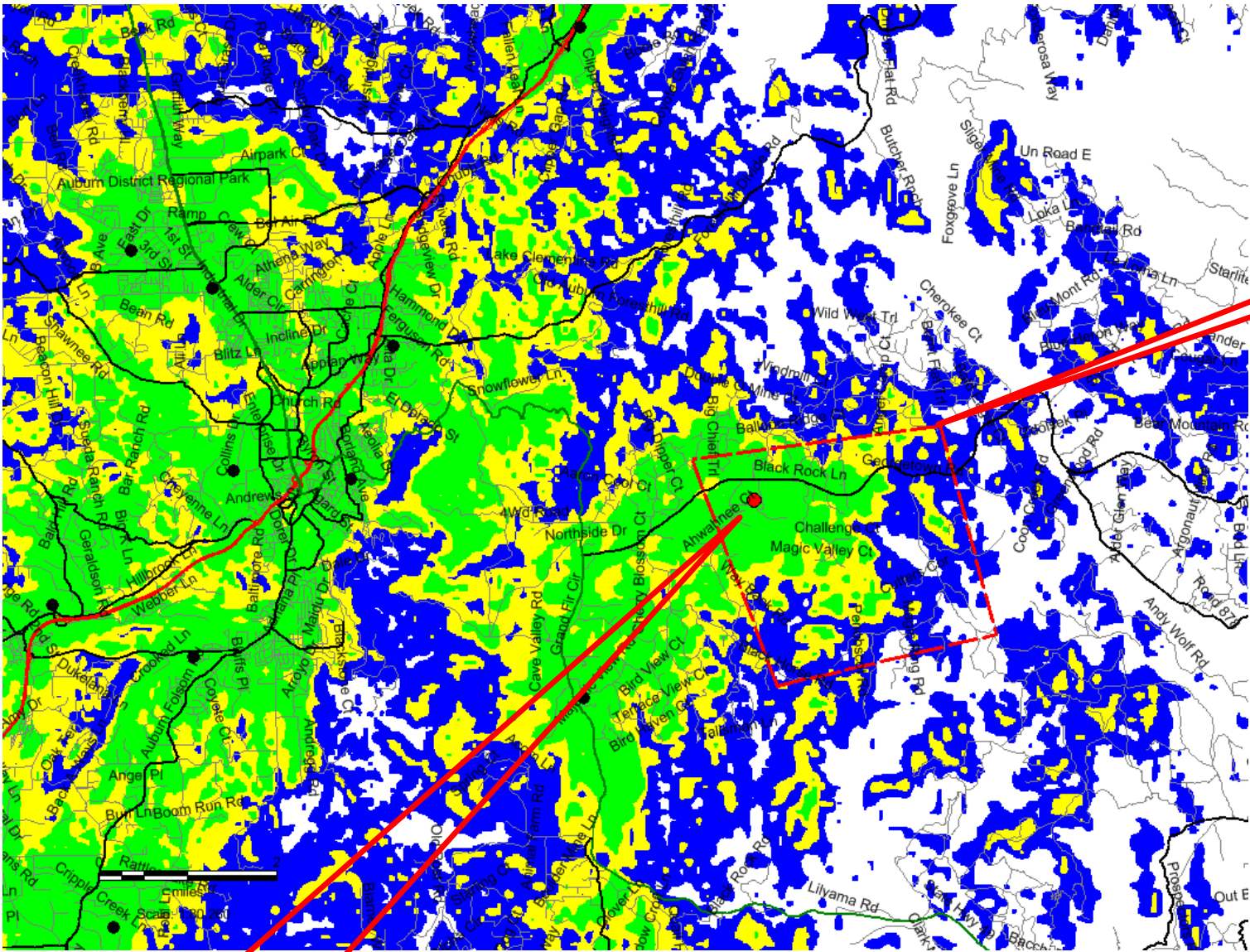
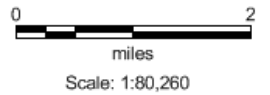
Nov 06, 2017

Proposed LTE 700 Coverage (RC = 150')

Legend

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

Living Units Polygon

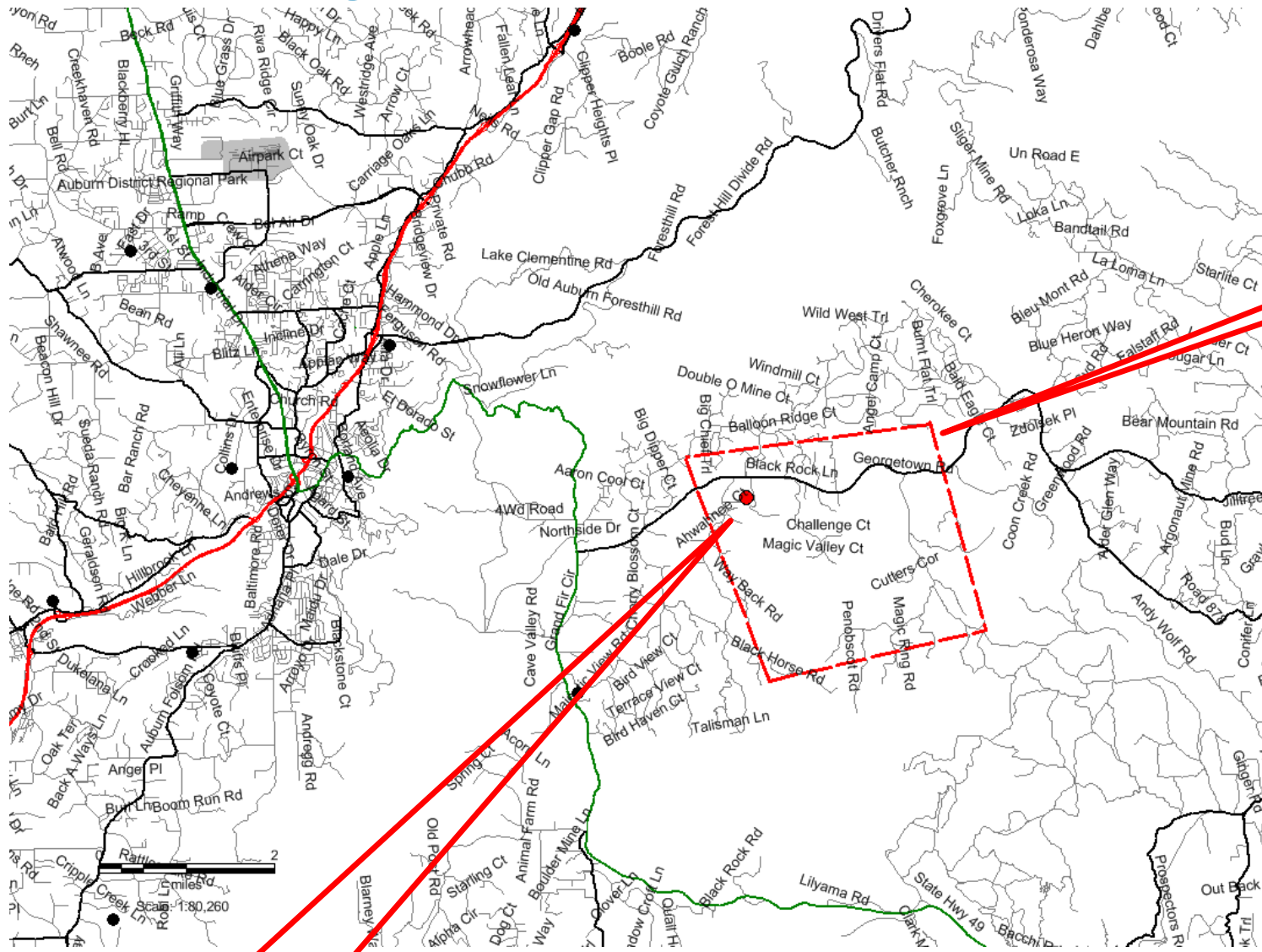


AUBURN LAKE TRAILS

Surrounding site View

Legend

- Existing site
- Proposed site



Living Units Polygon

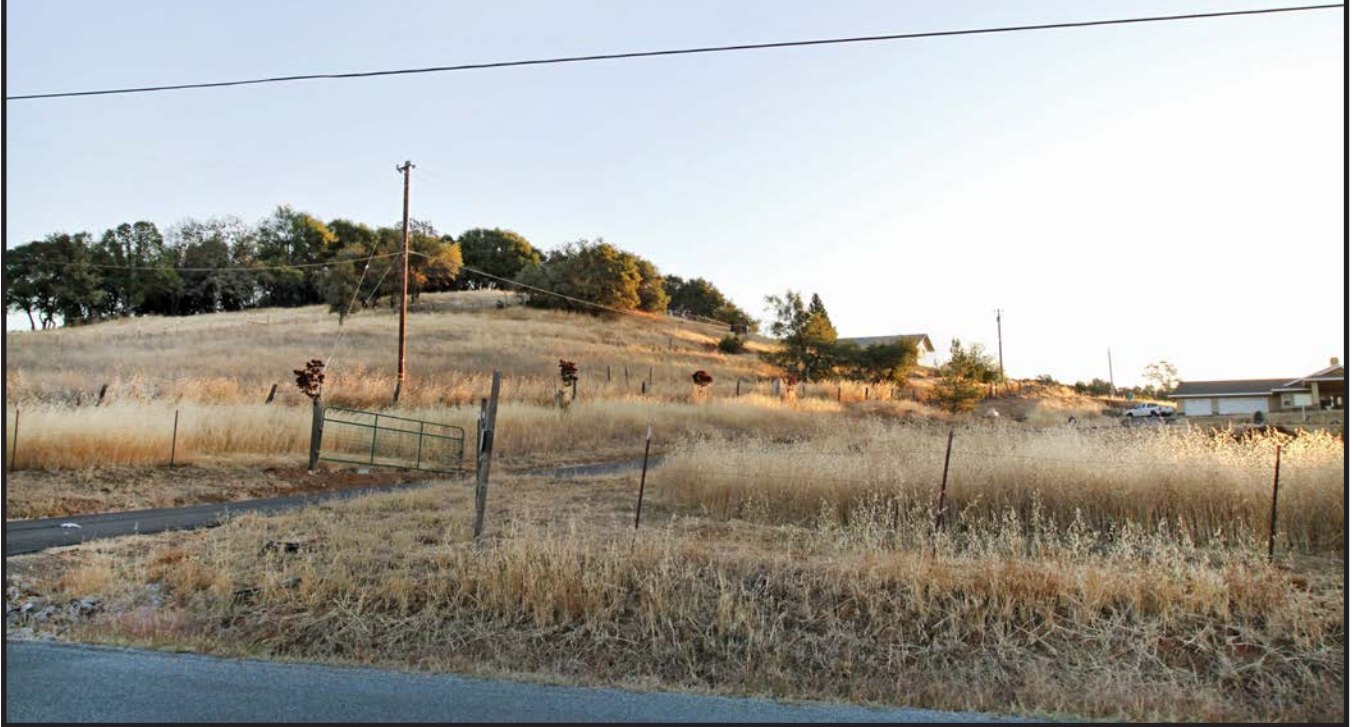
0 2
miles
Scale: 1:80,260



AUBURN LAKE TRAILS

Exhibit H

Existing



Proposed



Proposed AT&T
Installation

view from Cramer Road looking east at site

Existing



Proposed



Proposed AT&T
Installation

view from Ahwahnee Way looking northeast at site

Existing



Proposed



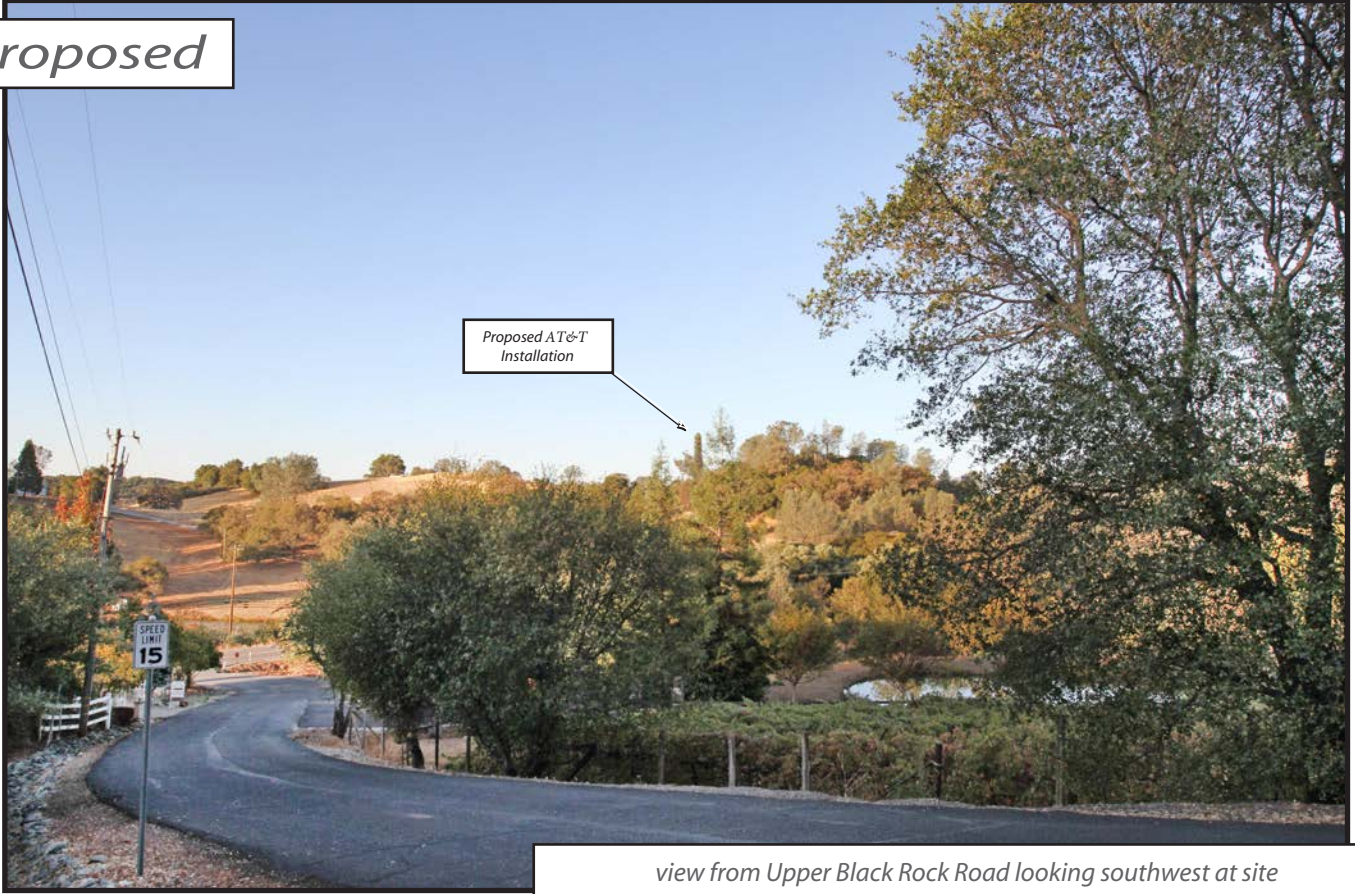
Proposed AT&T
Installation

view from Georgetown Road looking south at site

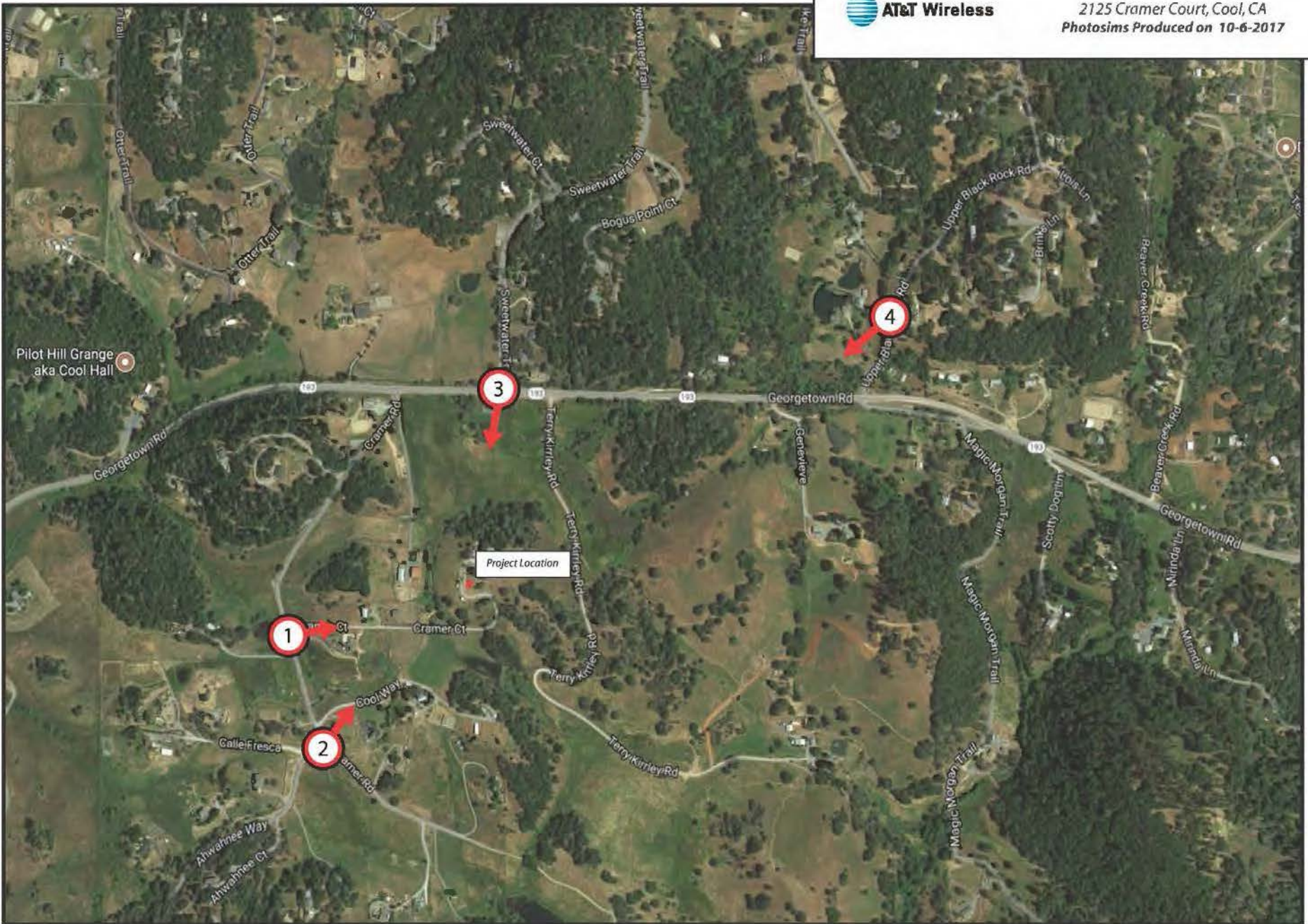
Existing



Proposed



view from Upper Black Rock Road looking southwest at site
CVL00887 Auburn Lake Trails
2125 Cramer Court, Cool, CA
Photosims Produced on 10-6-2017





Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name: Auburn Lake Trails
Address: 2125 Cramer Court
Cool, California
Report Date: October 12, 2017

Site Structure Type: Monopine
Latitude: N38-53-43.62
Longitude: W120-58-51.04
Project: New Build

General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed Auburn Lake Trails site located at 2125 Cramer Court, Cool, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by AT&T Mobility.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure.

Frequency (MHz)	Limits for General Population/ Uncontrolled Exposure		Limits for Occupational/ Controlled Exposure	
	Power Density (mW/cm ²)	Averaging Time (minutes)	Power Density (mW/cm ²)	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

AT&T Mobility proposes the following installation at this location:

- Install twelve (12) new panel antennas, four (4) per sector
- Install twenty-one (21) new RRUS

The antennas will be mounted on a 160-foot monopole with centerlines at 150 and 140 feet above ground level. The antennas will be oriented toward 90, 330 and 210 degrees. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 27,311 Watts. Other appurtenances such as RRUs and hybrid cable are not sources of RF emissions. From this site, AT&T Mobility will enhance voice and data services to surrounding areas in licensed 700, 850, 1900, 2100 and 2300 MHz bands. No other antennas are known to be operating in the vicinity of this site.

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serve to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.3635% of the FCC General Population limits (0.0727% of the FCC Occupational limits). Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.261% of the FCC General Population limits (0.0522% of the FCC Occupational limits). The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or at adjacent buildings by 5% of the General Population limits.

Waterford Consultants, LLC recommends posting contact information signage at the gate that informs personnel entering the site of basic precautions to be followed when working around antennas. RF alerting signage (Caution) should be posted at the base of the proposed Monopine to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.



Figure 1: Antenna Locations

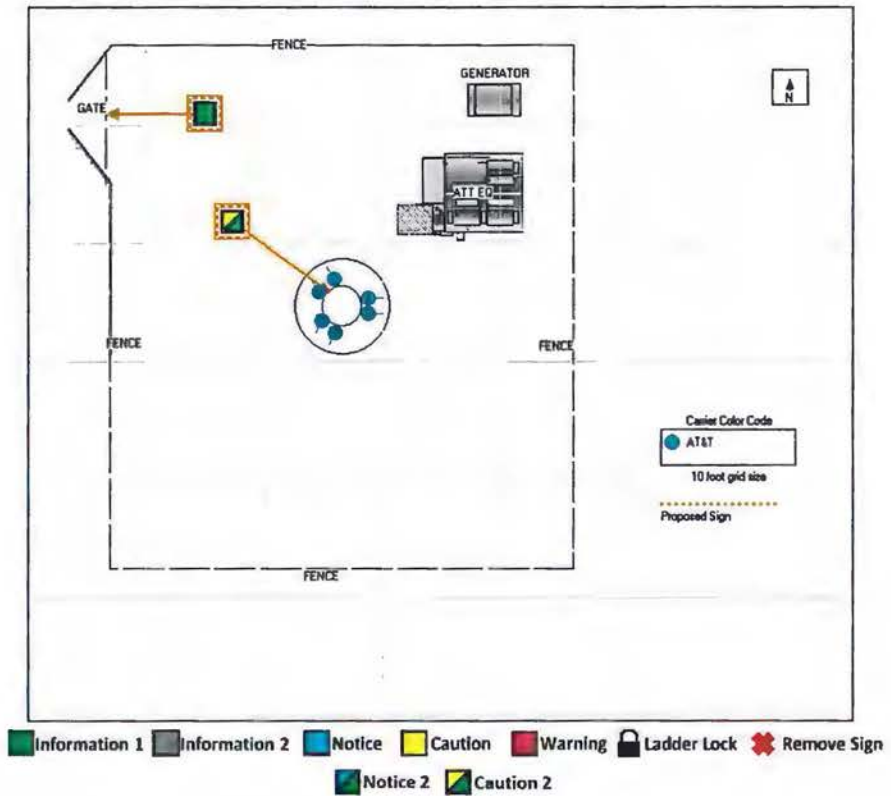


Figure 2: Mitigation Recommendations

Compliance Statement

Based on information provided by AT&T Mobility and predictive modeling, the installation proposed by AT&T Mobility at 2125 Cramer Court, Cool, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to the Monopine to authorized climbers that have completed RF safety training is required for Occupational environment compliance.

Certification

I, David H. Kiser, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



David H. Kiser, P. E. 2017.10.12 20:39:52 -04'00'



on Behalf of



PROJECT SUPPORT STATEMENT

**AT&T PROJECT NAME: CONNECT AMERICA FUND II (CAF II) PROJECT
DEVELOPMENT APPLICATION FOR AT&T SITE "AUBURN LAKE TRAILS"**

AT&T SITE NUMBER: CVL00887

AUTHORIZED AGENT:

EPIC WIRELESS GROUP, LLC

ZONING MANAGER:

JARED KEARSLEY; 916-755-1326; jared.kearsley@epicwireless.net

PROPERTY OWNER: RICHARD AND LINDA MITCHAM

530-823-3149

APN: 071-400-30

2125 Cramer Ct, Cool, CA 95614

- **PROJECT'S BACKGROUND AND OBJECTIVES**
- **SEARCH RING'S DESCRIPTION AND OBJECTIVES**
- **POTENTIAL CO-LOCATIONS**
- **ALTERNATIVE SITE ANALYSIS**
- **SUBJECT PARCEL AND SITE DETAILS AND SUPPORTING DOCUMENTS**
- **OPERATIONAL STATEMENT**
- **FIRE SUPPRESSION SYSTEM**
- **OTHER CONSIDERATIONS RELATING TO NEW WIRELESS TELECOMMUNICATION FACILITIES PURSUANT TO 17.14.210 AND 17.22.500 OF THE EL DORADO COUNTY ZONING CODE**



on Behalf of



Project Background and objectives:

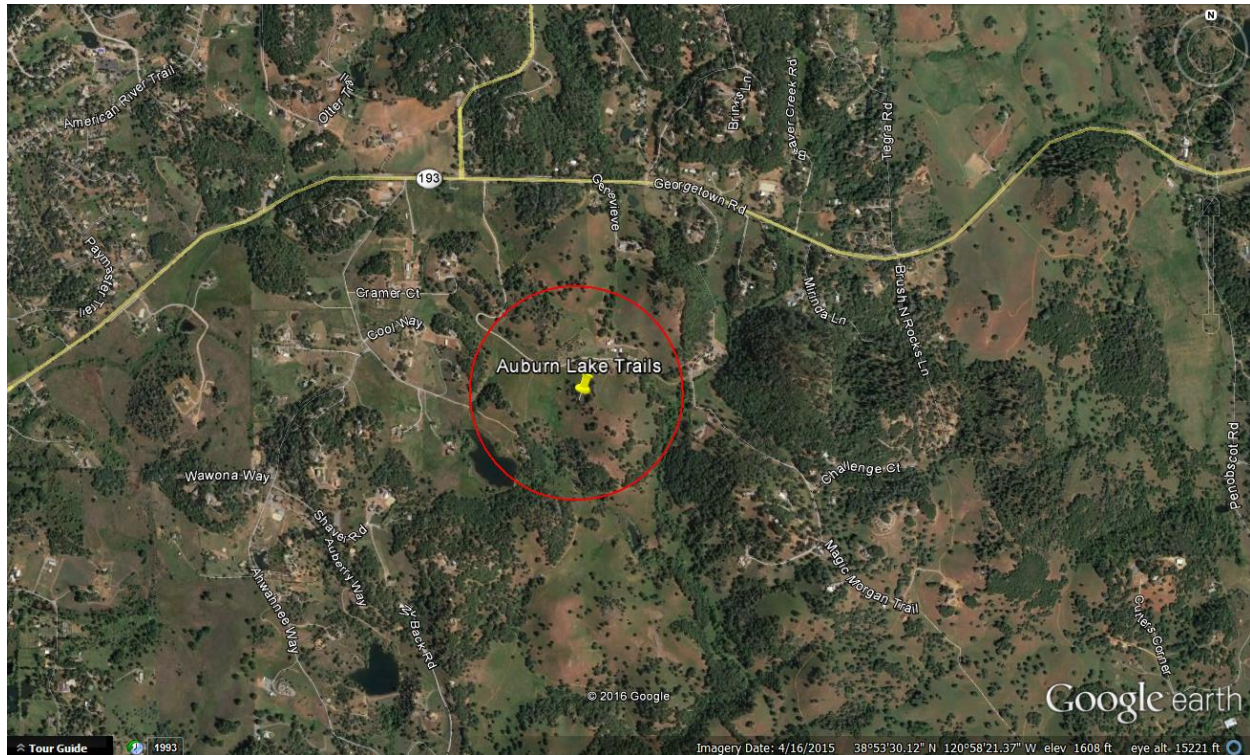
AT&T is participating in a Federal Government funded project called Connect America Fund (CAF) – which is to provide underserved areas throughout the United States in general and throughout El Dorado County in particular with hi-speed broadband internet. The build-up of hi-speed broadband internet throughout rural/underserved areas will not only drive economic growth in rural America, but will expand the online marketplace nationwide, creating jobs, educational and businesses opportunities across the country. The CAF project is required to provide broadband internet services capable of 10 Mbps download and 1 Mbps upload speeds.

AT&T has the necessary technology that allows them to build out their territory in El Dorado County with the much demanded hi-speed broadband internet to help improve the county's rural infrastructure. AT&T's basis for transmitting and receiving hi-speed broadband internet to residences is executed by providing one site with either a microwave fiber hop or a direct fiber line to the site and transferring the high speeds of fiber to each Living Unit (LU) via wireless signals. Each LU being provided with the service will have a small square antenna located in a vantage point on the property where it has a direct line of site to the tower. The square antenna will send and receive wireless broadband internet providing the LU with a minimum of 10/1 Mbps download and upload speeds, respectively.

AT&T's secondary objective is to provide and enhance AT&T's Wireless Telecommunications services (cellular services) to underserved areas. Cellular services go hand in hand with building the internet infrastructure throughout these underserved areas. People today rely on their mobile devices not only for educational and business purposes, but also for emergency services. Increasing AT&T's cellular coverage and capacity throughout El Dorado County's rural areas while providing wireless broadband internet will greatly assist with enhancing the county's economic growth and the area's infrastructure.

Given the need for direct line of site to residences, a taller than typical tower will be necessary in order to provide wireless broadband internet services to as many homes in the targeted areas as possible. During the tower design phase, the Radio Frequency (RF) engineer study many variables including surrounding tree heights, tree densities, population densities, and surrounding hill tops, in order to properly design a sufficient tower height with the goal of achieving the FCC's track census block mandates of reaching specific LU coverage objectives per area. Living Unit (LU) coverage objectives are provided by the RF engineer using density maps and are based on the area's approximate population. AT&T's goal is not only to reach the coverage objective, but to outperform the coverage objective to ensure that the maximum amount of homes are being provided this service while taking into consideration a small margin of error during the simulation process.

Search Ring's Description and Objectives:



AT&T Mobility is proposing to build and maintain an unmanned wireless telecommunication facility consisting of a 40' x 45', 1,800 square foot enclosed compound (lease area). The compound will include a 160 foot Stealth Monopine tower, one pre-manufactured equipment cabinet, and one 15KW DC standby diesel generator. This facility will be located at 2125 Cramer Ct., Cool, within El Dorado County's jurisdiction in a 5.102 acre RE-5 zone. The site is approximately 0.65 miles east of Knickerbocker Creek and the area consists of large oak trees, "evergreen" trees, and rolling hills with rocky terrain.

AT&T's objective for the Auburn Lake Trails site is to provide wireless hi-speed broadband internet to a and cellular services to the nearby residences. This site is to provide hi-speed internet and enhanced cellular coverage & capacity to the surrounding communities, and just north of the search ring is a relatively dense underserved area. The site location's elevation is approximately 1,720 feet while the surrounding community's elevation averages around 1,600 feet, giving the homes within the surrounding communities great potential for line of site to the tower. After running a coverage simulation at the site location, AT&T is anticipating meeting and beating their FCC objective for this search ring.

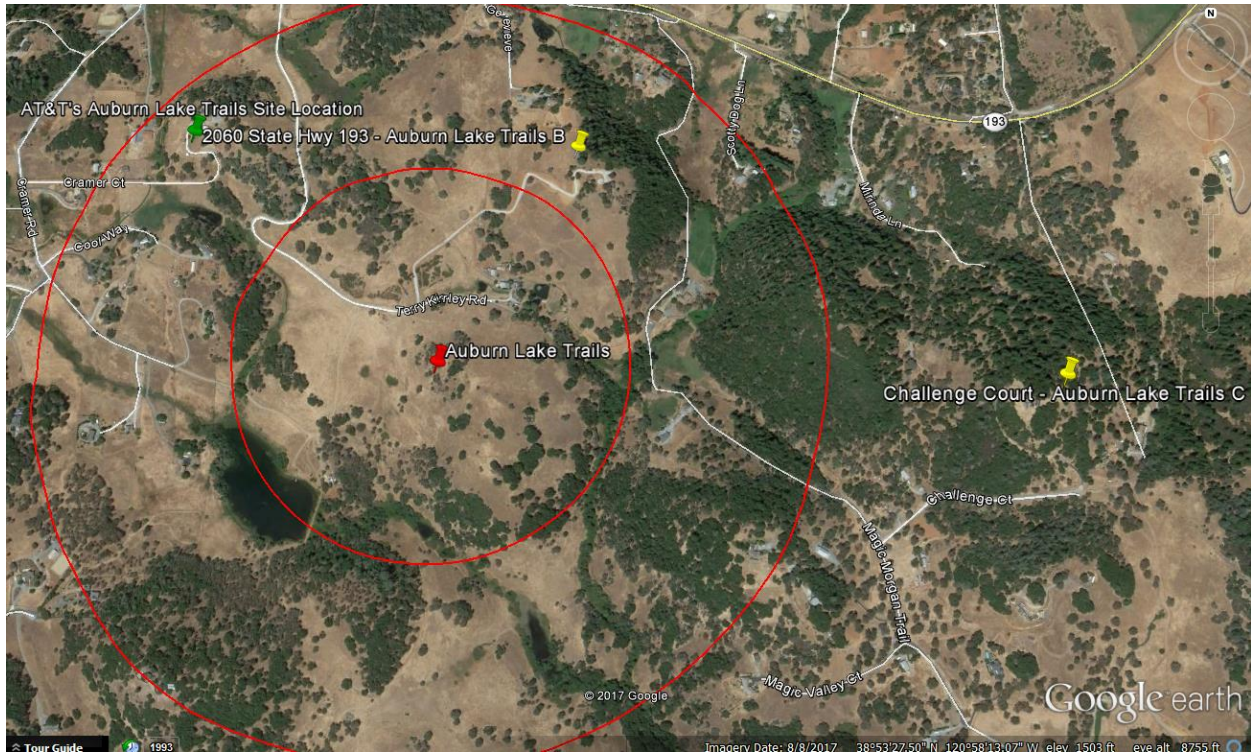
Potential Co-locations:



There is one potential Co-location opportunity in the near vicinity of the provided Search Ring. An Existing Verizon Wireless tower is located outside of AT&T's Search Ring approx. 1/3 of a mile to the northeast. Verizon's tower is 82' tall and their antennas are located at a 70' centerline. Verizon has two locations on the Tower secured for future Microwaves at 62' and 53' centerlines, leaving only an available centerline for an additional carrier at 43 feet. If the tower was able to be modified for an additional carrier above the Verizon antennas, the available centerline would then be approximately 84 feet. AT&T ran a coverage simulation at both, 43' and 84' centerlines and those simulations on the existing Verizon Tower failed to support AT&T's CAF II project requirements for the Auburn Lake Trails community/search ring. At the 43' centerline, AT&T lost approx. 75% of the targeted LUs within the community. At the 84' centerline, AT&T lost 56% of the targeted LUs for the community. Additionally, the total amount of LU's the Verizon Tower would provide failed to satisfy FCC's targeted goal for this area therefore disqualifying this collocation opportunity as a viable candidate. The Verizon Tower has been designed for mobile phone services that do not need line of site technology, therefore, a 70-foot centerline is sufficient for coverage however AT&T's CAF II wireless highspeed broadband internet technology requires line of site to LUs, and therefore, requires higher than typical centerlines and for that reason as well Verizon's tower was disqualified from this project. The existing Verizon Tower does not adequately fulfill the LU targets as set by the Federal Communications Commission and does not fill the significant gap in coverage for the Auburn Lake Trails Community; therefore, the Verizon Tower is not a co-locatable option for AT&T.

on Behalf of

Alternative Site Analysis pursuant to 17.14.210 (B) (1):



Above is a map showing the Search Ring (center is the red pin), Proposed Site (green pin) and the two alternative sites (yellow pins) that were considered for placement of the telecommunications facility. Each Alternative Site is discussed below:



on Behalf of



Auburn Lake Trails Alternative Candidate B:

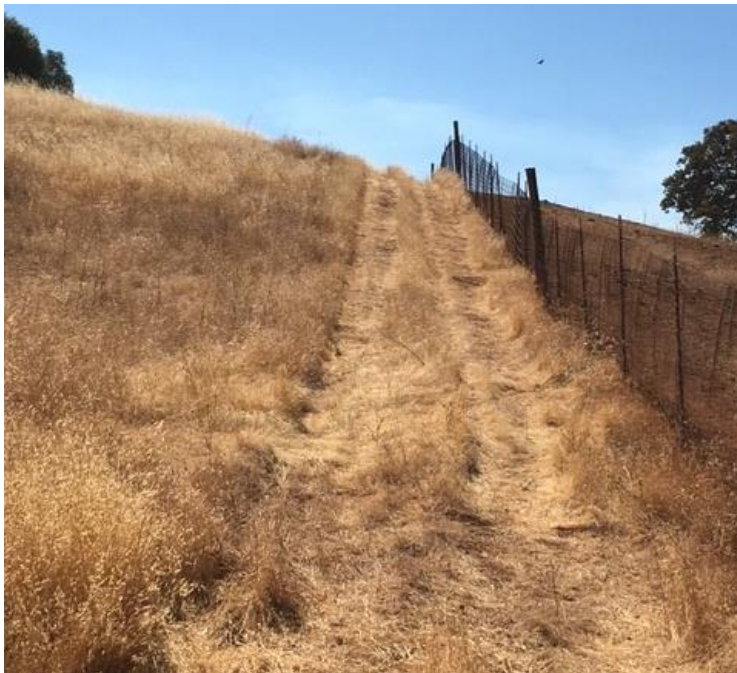
2060 State Hwy 193, Cool, CA 95614

Latitude/Longitude: 38.895132, -120.971553

Proposal – New Tower



Access Route:





on Behalf of



Considerations:

Candidate B is located approximately 1,740 feet north-east of the center of AT&T's search ring. The proposed tower would be located on a 20.23 acre, RE-5 zoned property owned by Kyle & Mesja Weinberger. The property is located on the south side of Hwy 193 and the site was proposed on the south side of the property. Candidate B was chosen as AT&T's third preferred candidate as the RF Engineer's simulation yielded approximately 33% fewer LU's than the subject site located at 2125 Cramer Court. Furthermore, the site's coverage simulation showed it covering 16% less LUs than the FCC's requirement for the targeted area. In addition to a lack of LU coverage, the access route is between 18-25% grade creating a difficult access route for fire and utility vehicles. The site location had a steep grade as well creating extensive grading (cut and fill with retaining walls) for the foundation and facility causing potential unknown environmental disturbance due to the extensive grading required. No known oak resources would be lost at this site location. This site location would have more aesthetical impacts on the surrounding area than the subject location, and, the site location is approximately only 240 feet northwest to the Existing Verizon Wireless Tower. The Land Use for the parcel is LDR which is an allowed use for Wireless Facilities, and, the surrounding area's Land Use is RR and MDR. The nearest dwelling unit to the proposed Tower location is approximately 700 feet.

Auburn Lake Trails Alternative Candidate C:

2371 Challenge Ct, Cool, CA 95614

Latitude/Longitude: 38.890607, -120.960573

Proposal – New Tower



Considerations:

Candidate C is located approximately $\frac{3}{4}$ of a mile east of the center of AT&T's search ring. The proposed tower would be located on a 10 acre, RE-10 zoned property owned by Reed and Kristen Allen. The property is located end of Challenge Court and the site was proposed on the north-east of the property. Candidate C was chosen as AT&T's preferred candidate as the RF Engineer's simulation yielded approximately 25% over the LU's than the subject site located at 2125 Cramer Ct., however, the property became unsuitable to build the Wireless Telecommunications Facility after further investigation. The proposed site's grade was too steep to accommodate the facility and the property owners did not want the site moved closer to their residence on flatter ground so AT&T parted ways with the property owners. Additionally, the access route would have resulted in losing three mature oak trees and the entire site plan significantly impacting seven oak trees. This site location supported the least aesthetical impacts on the surrounding area provided it was located on top of a hill with no surrounding neighbors in the nearby vicinity being affected. The Land Use for the parcel is RR which is an allowed use for Wireless Facilities, and, the surrounding area's Land Use is RR and AL. The nearest dwelling unit to the proposed Tower location is approximately 560 feet.



on Behalf of

Additional alternative sites considered and letters of interest sent out but received no response by landlords included the following parcels:

1930 State Highway 193, Cool, CA 95614 – APN: 071-032-46; Owner: Douglas Avery

1880 State Highway 193, Cool, CA 95614 – APN: 071-032-45; Owner: Miller Family Trust

3321 Magic Morgan Trail, Cool, CA 95614 – APN: 074-042-01; Owner: Daniel & Janice Prather

**LETTER OF AUTHORIZATION
TO FILE PERMIT APPLICATIONS**

Re: El Dorado County APN # 071-400-30-100

To Whom It May Concern:

The undersigned, Landlord, are the owners of the property located at 2125 Cramer Court, Cool, CA 95614, County Assessor's Parcel No. #071-400-30-100, that is the subject of a CUP application for a new AT&T Mobility Telecommunications Facility. The undersigned, Landlord, authorizes AT&T Mobility, C/O Epic Wirelss Group, and hereby authorizes Epic Wireless Group, its agent, to act as applicant to obtain any and all permits required for the approval and construction of this antenna/communication facility.

Landlord/Lessor: Richard and Linda Mitcham

Richard J. Mitcham
Landlord

10/30/17
Date

Linda R Mitcham
Landlord

10/30/17
Date

RECORDING REQUESTED BY:

NORTH AMERICAN TITLE GUARANTY
Escrow No. 301471 Order No. 202338-RC
AND WHEN RECORDED MAIL TO

El Dorado, County Recorder
William E. Schultz Co Recorder Office

DOC - 98-0041805-00
Acct 4-INTER COUNTY TITLE CO
Friday, JUL 24, 1998 13:42:55
Trl Pd \$233.00 Nbr-0000072784
CLC/C2/1-3

Name **RICHARD MITCHAM**
Street **LINDA MITCHAM**
Address **2125 Cramer Ct.**
Cool, CA 95614
City &
State

SPACE ABOVE THIS LINE FOR RECORDERS USE

INDIVIDUAL GRANT DEED

A.P.N. 071-400-30

The undersigned grantor(s) declare(s):

Documentary transfer tax is \$ 220.00 City Transfer Tax is \$ _____

**PCOS
FILED**

() computed on full value of property conveyed, or

() computed on full value less value of liens and encumbrances remaining at time of sale.

() Unincorporated area: () City of _____, and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **RICHARD A. DYER AND KAREN A. DYER, HUSBAND AND WIFE**

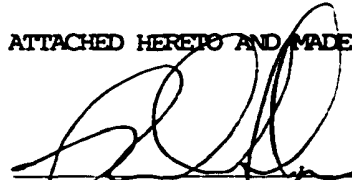
hereby GRANT(S) to **Richard Mitcham and Linda Mitcham, husband and wife as joint tenants**

the following described real property in the unincorporated area
County of **El Dorado** State of California:

**PARCEL A, SAID PARCEL IS SHOWN ON THAT CERTAIN PARCEL MAP FILED IN THE OFFICE FO
THE COUNTY RECORDER OF SAID COUNTY ON JULY 17, 1986, IN BOOK 35 OF PARCEL MAPS, AT
PAGE 107.**

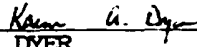
LEGAL DESCRIPTION CONTINUES ON EXHIBIT 'A' ATTACHED HERETO AND MADE A PART HEREOF.

Dated: July 20, 1998



RICHARD A. DYER

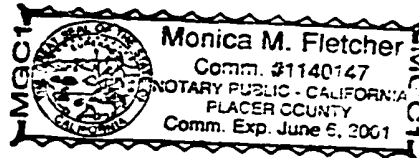
STATE OF CALIFORNIA } SS.
COUNTY OF Placer }

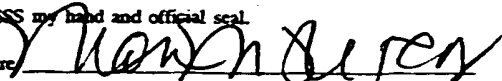


KAREN A. DYER

On July 20, 1998 before me,
Monica M. Fletcher, personally appeared
Richard A. Dyer **

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.


(This area for official notarial seal)

MAIL TAX
STATEMENTS TO: SAME AS ABOVE

NAME

ADDRESS

CITY/STATE/ZIP

041805

State of California

County of Placer

On July 22, 1998 before me, Monica M. Fletcher
DATE NAME, TITLE OF OFFICER - E.G., "JANE DOE, NOTARY PUBLIC"

personally appeared Karen A. Dyer
NAMES(S) OF SIGNER(S)

() personally known to me - OR - () proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

[Handwritten Signature]
SIGNATURE OF NOTARY

DESCRIPTION OF ATTACHED DOCUMENT

DESCRIPTION OF DOCUMENT (OPTIONAL)

State of _____

County of _____

On _____ before me, _____
DATE NAME, TITLE OF OFFICER - E.G., "JANE DOE, NOTARY PUBLIC"

personally appeared _____
NAMES(S) OF SIGNER(S)

() personally known to me - OR - () proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY

DESCRIPTION OF ATTACHED DOCUMENT

DESCRIPTION OF DOCUMENT (OPTIONAL)

041805

TOGETHER WITH:

A non-exclusive road and utility easement over, under, along, across and through the non-exclusive road and utility easement lying outside the exterior lines of the realty first hereinabove described, as said easements are delineated and designated on the Parcel Map hereinabove referred to.

ALSO TOGETHER WITH:

An easement ten (10) feet in width, for well, pipeline and incidental purposes over, under and across the following described tract of land, the centerline of said easement is described as follows:

BEGINNING at the Southeasterly terminus of the herein described easement, a point on the boundary line between Parcel 1 and Parcel 2 of Parcel Map filed in Book 28 of Parcel Maps, at Page 144 being further described as the Northerly Terminus of the Course delineated as North 15° 42' 20" East 90.81 feet on said map; thence North 45° 13' West from the point of beginning for a distance of 115.0 feet to the Northwesterly terminus of said easement.

98-0041805-00

[Print](#)
[Email Reports](#)
[Export Reports](#)

Ref ID: Auburn Lakes

Property Detail Report

For Property Located At :
2125 CRAMER CT, COOL, CA 95614-9514



Owner Information			
Owner Name:	MITCHAM RICHARD & LINDA		
Mailing Address:	2125 CRAMER CT, COOL CA 95614-9514 H004		
Vesting Codes:	HW // JT		
Location Information			
Legal Description:	PM 35/107/A	APN:	071-400-30-100
County:	EL DORADO, CA	Alternate APN:	071-400-30-100
Census Tract / Block:	306.01 / 2	Subdivision:	
Township-Range-Sect:		Map Reference:	/
Legal Book/Page:		Tract #:	
Legal Lot:		School District:	BLACK OAK MINE
Legal Block:		School District Name:	
Market Area:		Munic/Township:	
Neighbor Code:			
Owner Transfer Information			
Recording/Sale Date:	/	Deed Type:	
Sale Price:		1st Mtg Document #:	
Document #:			
Last Market Sale Information			
Recording/Sale Date:	07/24/1998 / 07/20/1998	1st Mtg Amount/Type:	\$135,000 / CONV
Sale Price:	\$200,000	1st Mtg Int. Rate/Type:	/ FIXED
Sale Type:	FULL	1st Mtg Document #:	
Document #:	41805	2nd Mtg Amount/Type:	/
Deed Type:	GRANT DEED	2nd Mtg Int. Rate/Type:	/
Transfer Document #:		Price Per SqFt:	\$120.19
New Construction:		Multi/Split Sale:	
Title Company:	INTER-COUNTY TITLE CO.		
Lender:	MONUMENT MTG INC		
Seller Name:	DYER RICHARD A		
Prior Sale Information			
Prior Rec/Sale Date:	04/01/1987 /	Prior Lender:	
Prior Sale Price:	\$89,500	Prior 1st Mtg Amt/Type:	\$80,500 / CONV
Prior Doc Number:	2729-404	Prior 1st Mtg Rate/Type:	/
Prior Deed Type:	DEED (REG)		
Property Characteristics			
Gross Area:		Parking Type:	Construction:
Living Area:	1,664	Garage Area:	Heat Type:
Tot Adj Area:		Garage Capacity:	Exterior wall:
Above Grade:		Parking Spaces:	Porch Type:
Total Rooms:	6	Basement Area:	Patio Type:
Bedrooms:	3	Finish Bsmnt Area:	Pool:
Bath(F/H):	3 /	Basement Type:	Air Cond:
Year Built / Eff:	1977 / 1977	Roof Type:	Style:
Fireplace:	Y /	Foundation:	Quality:
# of Stories:	2.00	Roof Material:	Condition:
Other Improvements:			AVERAGE
			AVERAGE
Site Information			
			RURAL IMPROVED 2.5-20

on Behalf of

Actual View of the Proposed Location:

The proposed lease area is centrally located on the property. The site will not interfere with the existing use of the property. Access will be directly off of Cramer Court. The site is elevated above the surrounding area and has great potential for line of site to the communities down below the subject parcel. The site isn't overly intrusive to nearby residents nor their view points of their properties. The nearest residence is approximately 325 feet to the northwest and sits 60 feet lower than the site location. The residence has a line of trees and foliage shielding their view to the site. The second closest residence is approximately 660 feet to the west and sits 45 feet below the site location. No Oak Tree resources will be removed or severely impacted by the project. The Surrounding Land Use for the area is LDR and RR.





Planning Services

Home > Government > Planning

PARCEL DATA INFORMATION

on Behalf of



11/1/2017

[Enter Another Parcel](#)

Assessor's Parcel Number: 071-400-30

PROPERTY INFORMATION:

STATUS	JURISDICTION	TAX RATE	MAP	ACREAGE
ON ASSESSMENT ROLL AND TAXED	COUNTY OF EL DORADO	83 - 48	PM 35/107/A	5.102

2015 GENERAL PLAN LAND USE INFORMATION:

LAND USE DES.	AG DIST.	ECOLOGICAL PRESERVES	IMPORTANT BIOLOGICAL CORRIDOR	MINERAL RESOURCES	PLATTED LANDS	COMMUNITY REGIONS	RURAL CENTERS	SPECIFIC PLANS	ADOPTED PLAN NAME
LDR									

2015 ZONING INFORMATION:

ZONING DESIGNATION	DESIGN CONTROL	PLANNED DEVELOPMENT	OTHER OVERLAYS
RE-5			

2004 GENERAL PLAN LAND USE INFORMATION:

LAND USE DES.	AG DIST.	ECOLOGICAL PRESERVES	IMPORTANT BIOLOGICAL CORRIDOR	MINERAL RESOURCES	PLATTED LANDS	COMMUNITY REGIONS	RURAL CENTERS	SPECIFIC PLANS	ADOPTED PLAN NAME
LDR									

2004 ZONING INFORMATION:

ZONING DESIGNATION	DESIGN CONTROL	PLANNED DEVELOPMENT	OTHER OVERLAYS
RE-5			

DISTRICTS:

FIRE	CSD	SCHOOL	WATER
EL DORADO COUNTY FPD		BLACK OAK MINE UNIFIED	GEORGETOWN DIVIDE PUD

FLOOD ZONE INFORMATION (See Note below):

FIRM PANEL NUMBER & REVISION	PANEL REVISION DATE	FLOOD ZONE	FLOOD ZONE BUFFER	FLOODWAY
06017C0200E	09/26/2008	X		

MISCELLANEOUS DATA:

SUPERVISORIAL DISTRICT	AG PRESERVE	RARE PLANT MITIGATION AREA	MISSOURI FLAT MC&FP
4 MICHAEL RANALLI			No

REMARKS:

No Eligibility Review Required

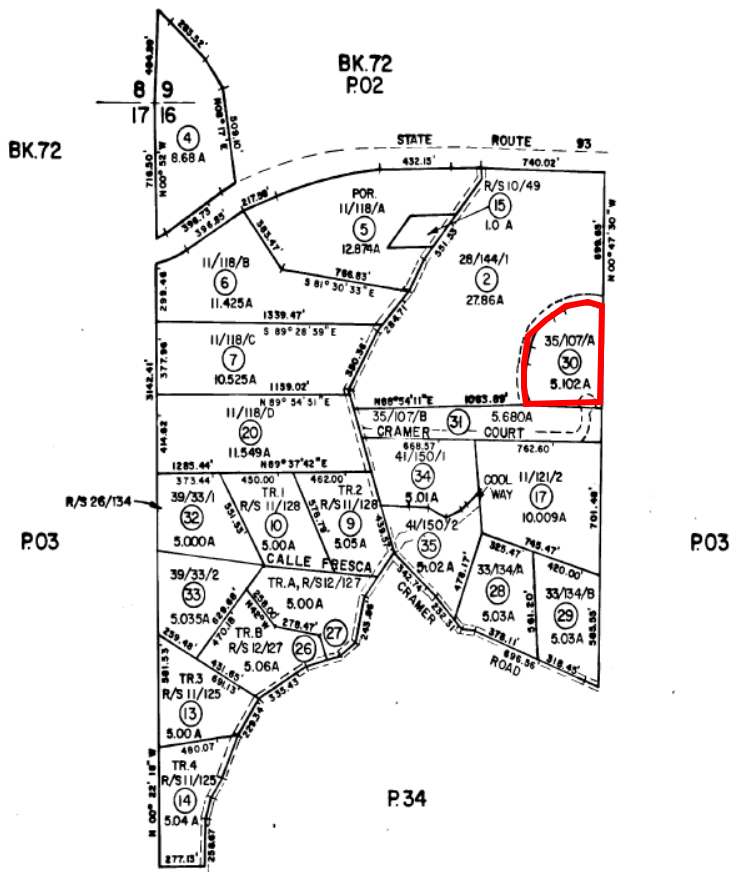
NOTE: The flood zone information presented here is based solely on data derived from the FEMA Flood Information Rate Maps, and does not include data from any other flood studies.

Assessor's Parcel Map

POR. SECS. 9,16 & 17, T.12N., R.9E., M.D.M.

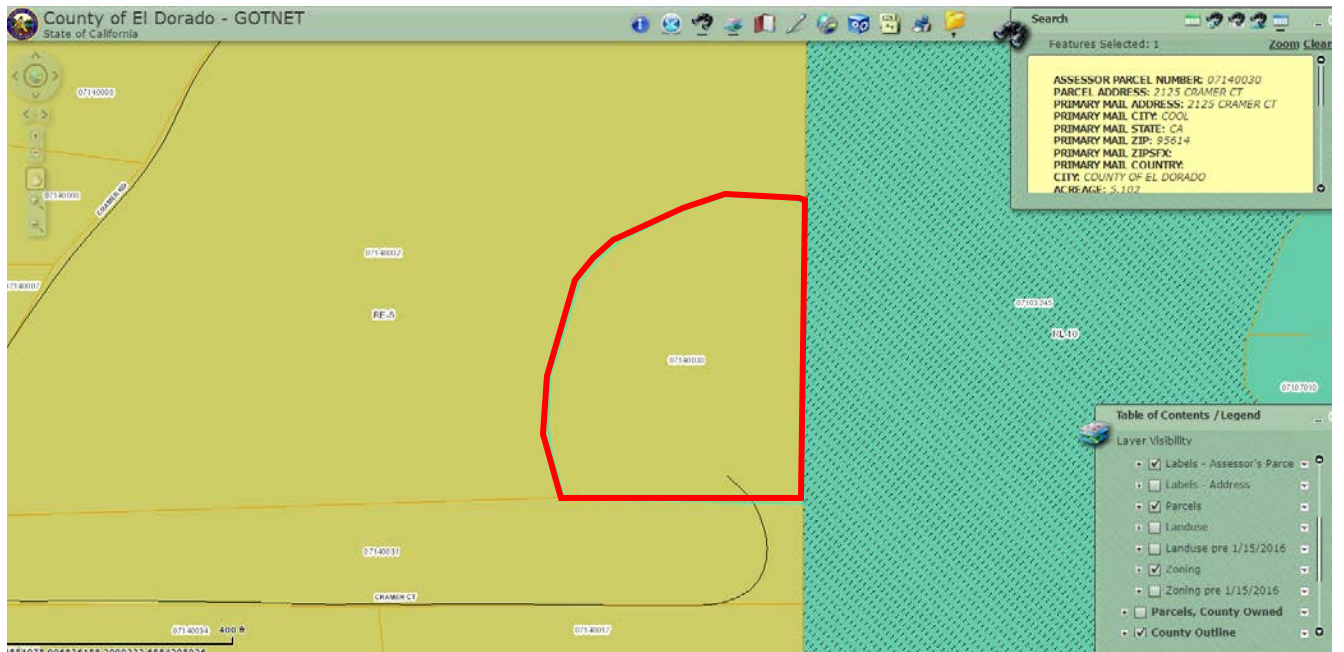
Tax Area Code

71:40

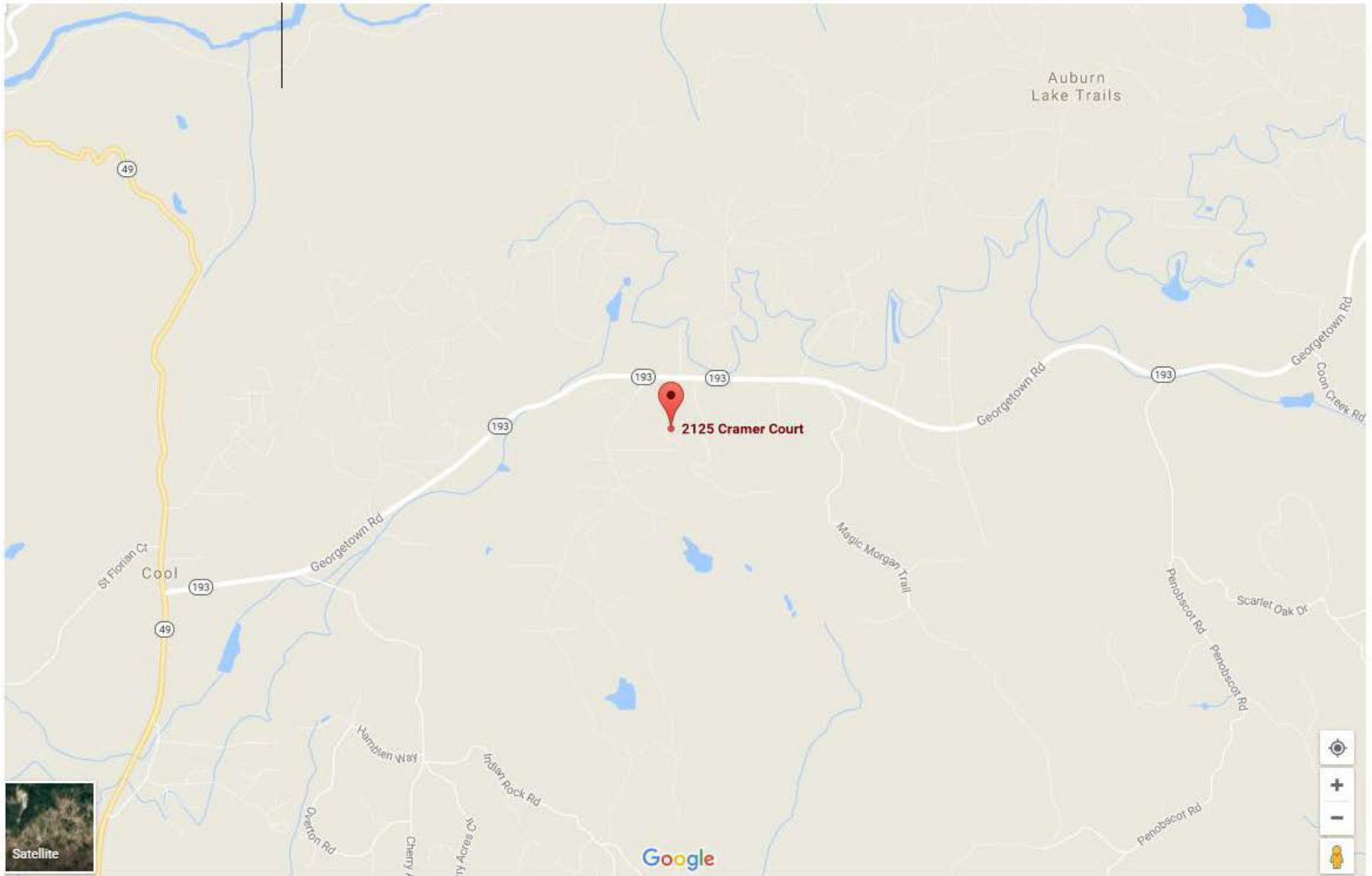


NOTE - Assessor's Block Numbers Shown in Ellipses
 Assessor's Parcel Numbers Shown in Circles

Zoning Map



VICINITY MAP



on Behalf of

Overhead View of Lease Area and Distances to nearby residences:



Emergency 15kw Diesel Generator and 1 Ton HVAC Noise Analysis:

○ **Equation and Calculation Method:**

The sound analysis methods and results are hypothetical only, using Sound Level and Distance calculations. These calculations do not take outside sounds, trees, hills, buildings, and other sound dampening variables into consideration, but, only raw sound levels after specific traveled distances which results in the worst case scenario for the sounds of the onsite backup generator and HVAC systems.

The use of emergency equipment is exempted from these limits per section 130.37.20(B).

Formulas to calculate the sound level L in dB (sound pressure level or sound intensity level) in dependence of the distance r .

Sound level L and Distance r	
$L_2 = L_1 - 20 \cdot \log\left(\frac{r_1}{r_2}\right) $	$L_2 = L_1 - 10 \cdot \log\left(\frac{r_1}{r_2}\right)^2 $
$r_2 = r_1 \cdot 10^{\left(\frac{L_1 - L_2}{20}\right)}$	$r_1 = \frac{r_2}{10^{\left(\frac{L_1 - L_2}{20}\right)}}$
Sound pressure level (dB) = Sound intensity level (dB)	
$L_2 = L_1 - 20 \cdot \log\left(\frac{r_1}{r_2}\right) $	$L_2 = L_1 - 10 \cdot \lg\left(\frac{r_1}{r_2}\right)^2$

Sound Specifications:

- Emergency Generator Model: SD015 Generac
 - Average decibel (dBa) level at 23 feet = 65 dBa
- 1 Ton HVAC Model: HVAC MarvairSlimPacECUA12ACA
 - Average decibel (dBa) level at 30 feet = 46.5 dBa

Sound Specifications while taking the Sound Blanket into consideration:

- Emergency Generator Model: SD015 Generac
 - Average decibel (dBa) level at 23 feet = 59 dBa
- 1 Ton HVAC Model: HVAC MarvairSlimPacECUA12ACA
 - Average decibel (dBa) level at 30 feet = 41.5 dBa
 - HVAC is intrinsically compliant with El Dorado County’s Noise Level Standards, per Table 1 below, 130.37.060.1

Findings:

1. Distance to the nearest Property Line of APN 071-400-02 = 220’
 - a. Generator Decibel level at 220’ = 39.39 dBa
2. Distance to the Residence at APN 071-400-02 = 325’
 - a. Generator Decibel level at 325’ = 36 dBa
3. Distance to the Residence at APN 071-400-31 = 660’
 - a. Generator Decibel level at 660’ = 29.84 dBa

Conclusion:

After calculating all decibel levels at each nearby property line and residence, the onsite Emergency Backup Generator are within El Dorado County’s noise level standards according to El Dorado County Title 130 Zoning and Noise Ordinance, Chapter 130.37 – Noise Standards.

Table 1 – Eldorado County Table 130.37.060.1
Noise Level Performance Standards for Noise Sensitive Land Uses
Affected by Non-Transportation Sources

Noise Level Descriptor	Daytime 7 a.m. – 7 p.m.		Evening 7 p.m. – 10 p.m.		Night 10 p.m. – 7 a.m.	
	Community / Rural Centers	Rural Regions	Community / Rural Centers	Rural Regions	Community / Rural Centers	Rural Regions
Hourly Leq, dBA	55	50	50	45	45	40
Maximum Level, dBA	70	60	60	55	55	50



on Behalf of



Operation Statement:

This project is an AT&T Mobility unmanned Telecommunication Wireless Facility. It will consist of the following:

NEW SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY.

1. BRING POWER / TELCO / FIBER TO SITE LOCATION
2. GRAVEL ROAD IMPROVEMENT FROM ROW
3. 40'X45' FENCED LEASE AREA
4. INSTALL AT&T APPROVED PRE-MANUFACTURED EQUIPMENT CABINET AND ASSOCIATED INTERIOR EQUIPMENT
5. ADD (1) NEW GPS UNITS
6. ADD 160'-0" MONOPINE
7. ADD (12) ANTENNAS (4) PER ALPHA, BETA, GAMMA SECTOR
8. ADD (21) PROPOSED RRUS
9. ADD (6) DUAL DIPLEXERS
10. ADD (4) SURGE SUPPRESSORS
11. ADD (2) FUTURE 4' MICROWAVE DISHES
12. ADD 6'-0" HIGH CHAIN LINK FENCE W/ VYNAL SLATS
13. ADD 15KW DC DIESEL GENERATOR

The facility will operate 24 hours a day 7 days a week. Maintenance workers will visit the site approximately once a month. A 15 foot wide access route will be created directly from Cramer Ct. There will be minimal noise from the standby generator, turning on once a week for 15 minutes for maintenance purposes and during emergency power outages. The Facility is approximately 325 feet east of a residence, and approximately 660 feet north-east of another. The location is surrounded by oak trees which will naturally stealth the facility in addition to being at a higher elevation than the surrounding neighbors. The surrounding area is covered with oak tree and pine tree backdrops. The tower will be built to provide co-location opportunities.

Fire Suppression System:

A 15 foot wide access route will be created directly from Cramer Ct. with one fire "turnout" within the driveway. A Hammer Head Fire Turnaround will be proposed within the access route proceeding the residence's driveway. A Fire Department Knox Box will be located at the Property's access gate and at the Facility's access gate. Additionally, a 2A:20BC Rated Fire Extinguisher in a weather resistant cabinet will be mounted on the exterior wall of the proposed shelter.



on Behalf of



Conclusion:

Candidate A, 2125 Cramer Ct., meets the FCC's mandated objectives for the targeted area of Auburn Lake Trails and is the best choice for the surrounding area. The chosen location will meet and exceed the FCC's mandated coverage objectives with providing hi-speed broadband internet to homes in the Auburn Lake Trail's Targeted area of El Dorado County. The Stealth Monopine Tower design has been chosen to blend into the existing surrounding environment as the least intrusive means while filling AT&T's significant gap in coverage. Existing foliage on the subject parcel and surrounding parcels results in a stealthed compound from all directions. No oak woodlands will be impacted/removed for this location. No special species or protected animals will be impacted per the biological resource assessment prepared by Sycamore Environmental Consultants, Inc. Even though the site on Cramer Court covers 25% less than the original primary candidate, the site still exceeds the FCC's coverage requirements for the targeted area. Additionally, this site covers 33% more LUs than the backup candidate located on Highway 193 and between 56% and 75% more than the existing Verizon Tower. The Proposed Wireless Facility is an allowed use on the property subject to the approval of a Conditional Use Permit.

CVL00887 AUBURN LAKE TRAILS

Zoning Propagation Map

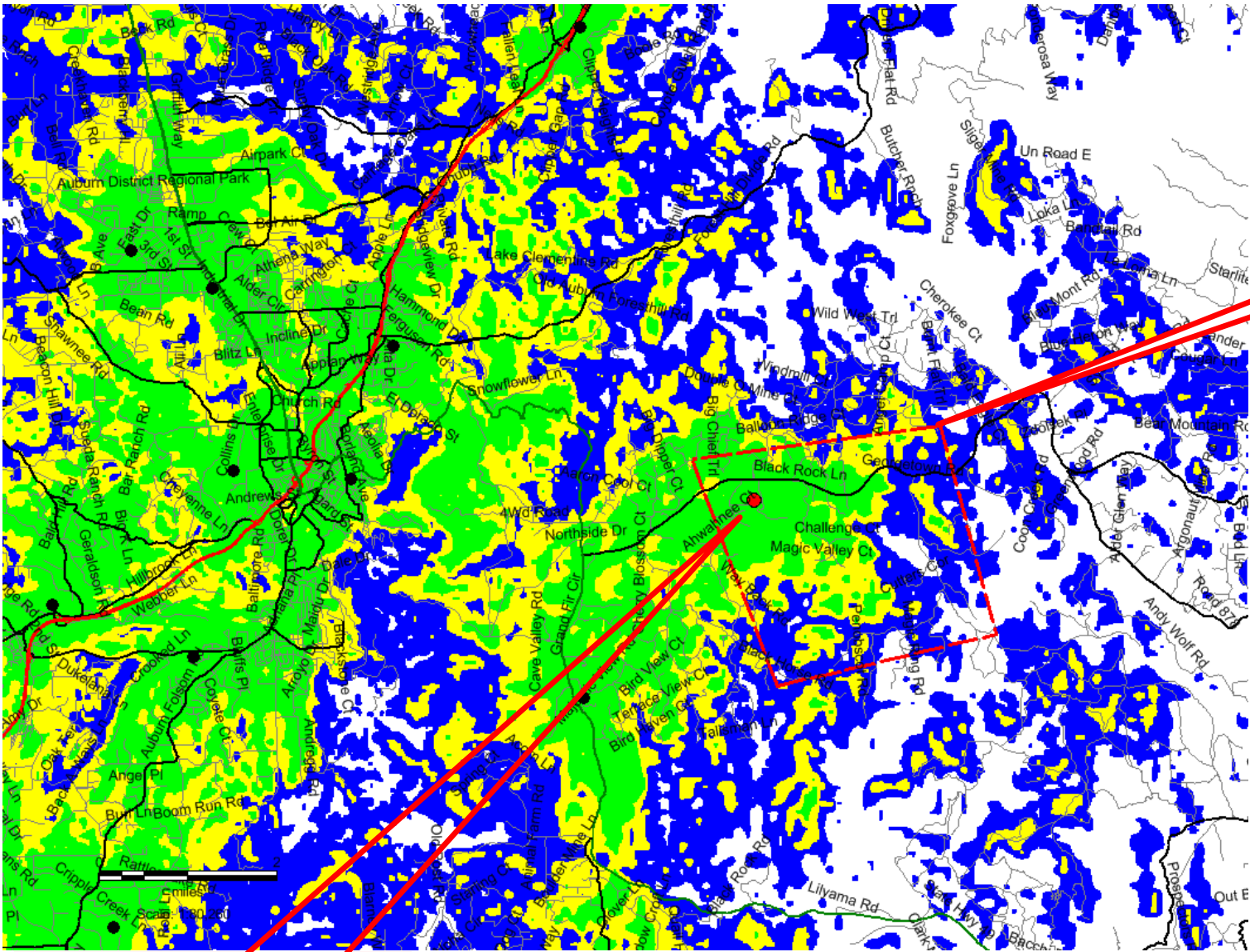
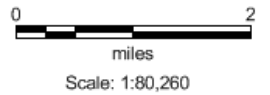
Nov 06, 2017

Proposed LTE 700 Coverage (RC = 150')

Legend

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

Living Units Polygon

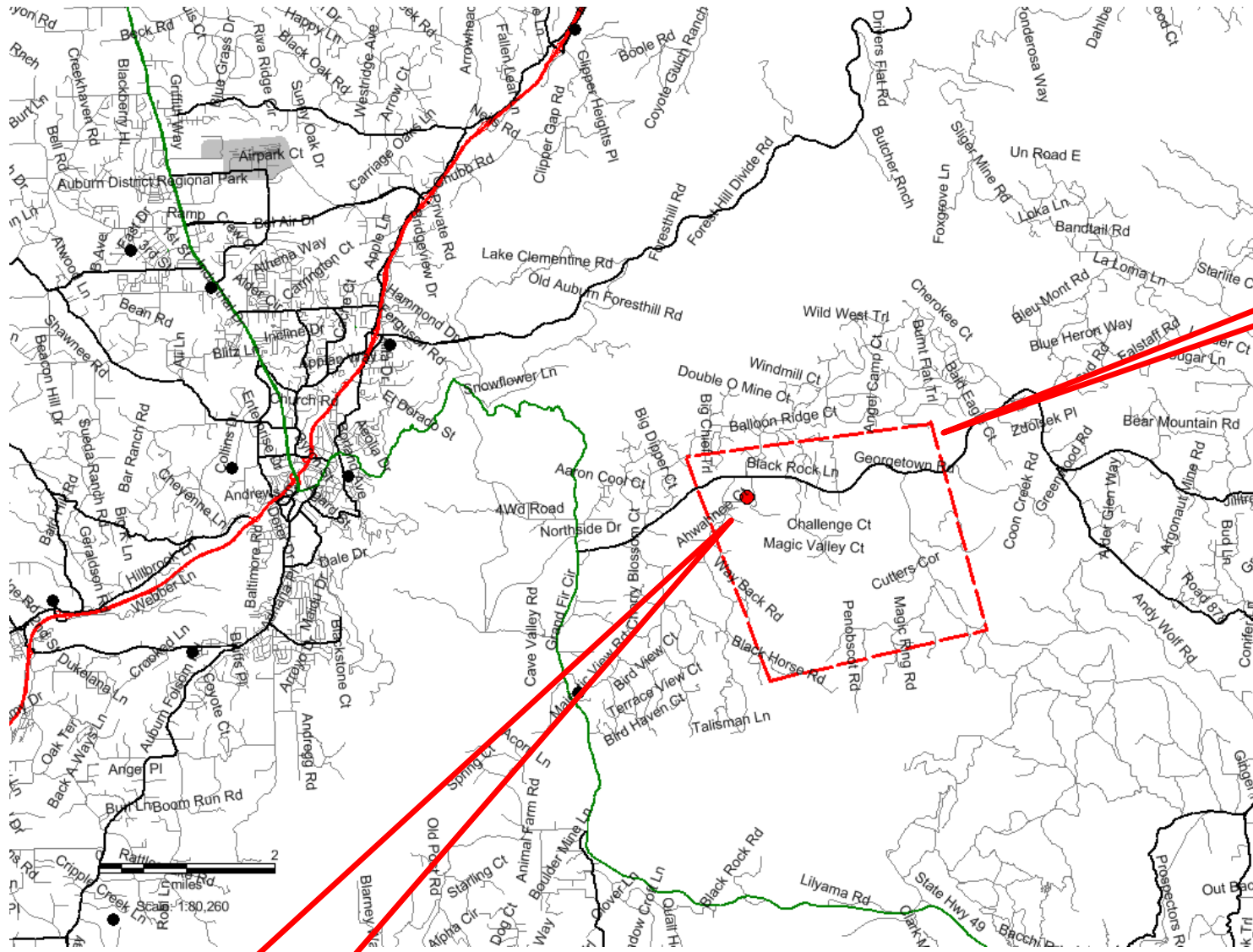


AUBURN LAKE TRAILS

Surrounding site View

Legend

- Existing site
- Proposed site



Living Units Polygon

AUBURN LAKE TRAILS

BBC-13X Sound Curtains

Sound Seal's **BBC-13X** offers the benefits of both a noise barrier and a sound absorber for outdoor applications. The BBC-13X consists of a one-inch thick vinyl-coated-fiberglass-cloth faced quilted fiberglass that is bonded to a one-pound per sq. ft. reinforced loaded vinyl noise barrier. "X" style Sound Curtain panels are constructed with grommets across the top and **bottom, and exterior grade** Velcro seals along the vertical edges. The product is also available in roll form with edges bound or unbound.

- Class A (or 1) flammability rated per ASTM E 84
- For use on Indoor or Outdoor Applications
- Available facing colors: gray, tan, black, or off-white
- Available barrier colors: gray, tan, blue or olive drab



Applications:

Even in the harshest environments, with a minimum life span of 5 years* and wind load ratings of 120 mph, this product is typically used as a **temporary noise barrier on outdoor applications such as construction site noise mitigation projects**. Also available with a two-pound psf noise barrier or a two-inch thick quilted fiberglass sound absorber for better acoustical performance.

Product Data:

Description	Vinyl coated fiberglass cloth facing on 1" quilted fiberglass 1lb-psf reinforced loaded vinyl barrier
Flammability	Flame Spread: 23.0 Smoke density: 30.0
Nominal thickness	1.0 inch
Temperature range	-20° to +180° F
Standard roll size	54" wide x 25' long
Weight	1.2 lb psf

Acoustical Performance:

Sound Transmission Loss

Product	OCTAVE BAND FREQUENCIES (Hz)						
	125	250	500	1000	2000	4000	STC
BBC-13 X	11	16	24	30	35	35	27

ASTM E-90 & E 413

Sound Absorption Data

Product	OCTAVE BAND FREQUENCIES (Hz)						
	125	250	500	1000	2000	4000	NRC
BBC-13 X	.12	.47	.85	.84	.64	.62	.70

ASTM C 423

* when properly installed.



BACKUP LPG

8340-100-LP-14.4 SERIES
8220-100-LP-20 SERIES

THE MOST EFFICIENT POWER SOLUTION FOR TELECOM BACKUP USING PROPANE

The Polar Power solution was engineered to meet the unique power quality and monitoring requirements of the telecommunications industry. Our DC power solutions have become the preferred choice for installations with small AC loads. Since 1994 Polar Power Inc. has been the leader in DC power and cooling solutions.

ENGINE

Engine Model Ford TSG-415
Cylinders 4 In-line
Displacement 1.5
Engine HP range 25 or 40
Emissions EPA and CARB Certified
Variable RPM 1500RPM to 2900RPM
Engine Start Supercap 14.4V
Supercap DC-DC Charger >1A
Muffler Dual
Radiator Aluminum with Electric Fan

FUEL SYSTEM

Type Propane
Fuel Supplied by Customer

Recommended	Maximum
11 in H2O	13 in H2O
0.4 psi	0.5 psi

FUEL CONSUMPTION

81.8 cubic feet an hour (ft³/hr.) 2.22 gal/hr. at 1500 RPM
124 cubic feet an hour (ft³/hr.) 3.38 gal/hr. at 2900 RPM
Performance will vary depending on the energy content of LPG

ALTERNATOR

Type Permanent Magnet
Regulation Type RPM Control
Output Ripple Less than 100 milivolts RMS
No. of Poles 32
Overcurrent Protection 350A or 500A
Disconnect Means Fused Disconnect

ENGINE CONTROLLER

Model

Supra model 250

Instrumentation

Generator output voltage, amperage, kW, coolant, temperature, RPM, hour meter, maintenance intervals, starting circuit voltage.

Automatic Shutdown & Alarm for:

Under / Overspeed, Low Oil Pressure, High Coolant Temp., Fail to Start

Warning Alarm for:

Low / High Engine Battery Voltage, High Water Temp, and Low Oil Press, Pre-alarm.

Engine Start Delay Adj. set at 60 seconds
Return to Utility Delay Adj. set at 60 seconds
Engine Cool-Down Adj. set at 60 seconds
Exerciser Programmable / bi-weekly

Contact Closure for Remote Indication

Shutdown Alarm, Warning Alarm, Engine Run, E-Stop Depressed.

ENCLOSURE

Model 88-25-0100
Type Weather Protective
Materials Marine Grade Aluminum
Sound Attenuated <65 dBA @ 7 Meters
Door Hardware Rotary Lock with Padlock and Removable Side Panel
Mounting Secure Mounting Tabs
Dimensions 38" x 54" x 40"
Weight (Dry) 700 lbs



ETL certified per UL 2200
by Interek Testing Labs.

Visit our web site for prime power, lithium-ion batteries, and solar hybrid systems.



Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following new large spark-ignition engines and emission control systems produced by the manufacturer are certified for use in off-road equipment as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY NAME	ENGINE DISPLACEMENT (liters)	FUEL TYPE
2017	HEDIB01.5TSG	1.5	Gasoline, LPG, CNG, or Gasoline-LPG Dual Fuel, Gasoline-CNG Dual Fuel
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT USAGE
5000	Three-Way Catalytic Converter, Heated Oxygen Sensor, Sequential Multiport Fuel Injection (Gas), Gaseous Fuel Mixer (LPG, CNG)		Forklift, Aerial Lift, Generator, Compressor, Pump, Other Industrial Equipment
ENGINE MODELS (rated power in kilowatt, kW)		TSG415-DF (42.0 kW), TSG415-GAS (41.0 kW), TSG415-LPG (42.0 kW), TSG415-LPV (42.0 kW), TSG415-NG (39.0 kW), TSG415-CNG (39.0 kW), TSG415GASCNG (40.1 kW)	

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) exhaust certification emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2433(b)(1)) and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with 13 CCR Section 2433(b)(3).

(g/kW-hr)	HC+NOx	CO
Exhaust Standards	0.8	20.6
Certification Levels	0.5	2.5

The following is the evaporative hydrocarbon emission standard (13 CCR Section 2433(b)(4)) and certification emission level for this engine family in grams per gallon of fuel tank capacity (g/gallon).

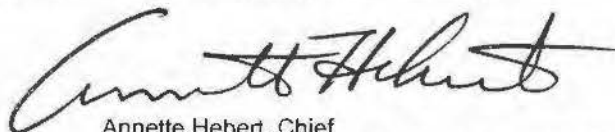
Evaporative Certification Method	HC Certification Level (g/gallon)	HC Certification Standard (g/gallon)
Design Based	N/A	0.2

BE IT FURTHER RESOLVED: That for the listed engines for the aforementioned model-year, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2433(c) (certification and test procedures), 13 CCR Section 2434 (emission control labels), and 13 CCR Sections 2435 and 2436 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 29 day of December 2016.



Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division

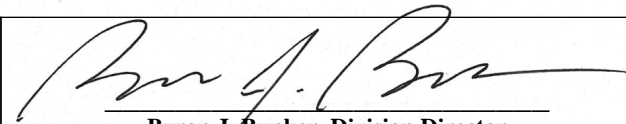


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2017 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Engine Distributors, Inc.
(U.S. Manufacturer or Importer)
Certificate Number: HEDIB01.5TSG-003

Effective Date:
10/17/2016
Expiration Date:
12/31/2017


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
10/17/2016
Revision Date:
N/A

Manufacturer: Engine Distributors, Inc.
Engine Family: HEDIB01.5TSG
Mobile/Stationary Certification Type: Mobile and Stationary
Fuel : LPG/Propane
Natural Gas (CNG/LNG)
Gasoline (up to and including 10% Ethanol)
Emission Standards :
Mobile Part 1048
CO (g/kW-hr) : 20.6
NMHC + NOx (g/kW-hr) : 0.8
HC + NOx (g/kW-hr) : 0.8
Stationary Part 1048
NMHC + NOx (g/kW-hr) : 0.8
CO (g/kW-hr) : 20.6
HC + NOx (g/kW-hr) : 0.8
Emergency Use Only : N

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 60, 40 CFR Part 1048, 1065, 1068, and 60 (stationary only and combined stationary and mobile) and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR Part 60, 40 CFR Part 1048 and produced in the stated model year.

This certificate of conformity covers only those new nonroad spark-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60, 40 CFR Part 1048 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60, 40 CFR Part 1048. This certificate of conformity does not cover nonroad engines imported prior to the effective date of the certificate.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068.20 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60, 40 CFR Part 1048. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60, 40 CFR Part 1048.

This certificate does not cover large nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



SlimPac™ I – Environmental Control Units

Models ECUA12ACA & ECUA18ACA

General Description

The Marvair SlimPac™ line of Environmental Control Units (ECU) are designed for the telecommunication cabinet. The slim profile allows the unit to be mounted quickly and simply on the exterior of the building on either side of the splice chamber. SlimPac units have, as standard, the necessary features to maintain the proper temperature control demanded by the telecommunications industry. The SlimPac is designed for use in ambients from 0°F (-18°C) to 120°F (48°C). **Their low noise level makes them ideal for installation in urban and residential areas.** The SlimPac is available in nominal cooling capacities of 1 and 1-1/2 tons (12,000 and 18,000 BTUH). The SlimPac units are ETL listed (pending). Both units are manufactured and tested to UL Std. 1995, 2nd Ed. and CAN/CSA C22.2 No. 236-95, 2nd ED.



Operation

The SlimPac ECU is controlled by a thermostat that senses the internal cabinet temperature. When cooling is desired, the compressor, evaporator blower and condenser fan (ECUA12) or blower (ECUA18) turn on. Cool air is discharged near the bottom of the SlimPac into the cabinet. When two SlimPacs are used on the same cabinet, the CommStat 3 or Marvair LL357 provides temperature control of the redundant units and equal run time on both units. A field installed jumper wire on the low voltage control board in the SlimPac will permit the evaporator blower to run continuously. The SlimPac can also be immediately shut off when used in cabinets with a fire or smoke alarm system. Please refer to the Operation & Maintenance Manual for details. Electric heat is optional.

Standard Features

Designed for operation down to 0°F (-18°C)

- Low ambient control cycles condenser fan (ECUA12) or condenser blower (ECUA18) to maintain proper refrigerant pressures.
- 3.6 kW of electric heat is optional.
- Timed low pressure bypass for low ambient start-up (ECUA18).

Built-in Reliability

- High and low pressure switches with lockout relay protect refrigerant circuit (ECUA18).
- High pressure switch

with lockout relay and frost sensor protect refrigerant circuit (ECUA12).

- Compressor time delay prevents rapid cycling of the compressor.

Vandal Resistant

- All mounting holes are inside the ECU.
- Powder coated finish for long term durability.

Ease of Installation

- Factory installed disconnect.
- Can be installed on either side of splice chamber.
- Built-in mounting holes.

Remote Alarm Capability

- Dry contacts can be used for remote alarm or notification upon lock-out.

Rugged Construction

- Copper tube, aluminum fin evaporator and condenser coils.
- High efficiency compressor.
- Baked on neutral tan finish.
- Decorative coil guard.

Ease of Service

- All service access from front and top of unit.

R-410A Refrigerant

Accessories

Grilles

Supply Grille – P/N 80685

13" x 5" (330 mm x 125 mm)

Return Air Filter Grille – P/N 80680

17" x 12" (358 mm x 305 mm)

Thermostats

CommStat 3 Lead/Lag Controller, P/N S/04581

A digital, programmable thermostat designed to operate two SlimPacs in a fully or partial redundant application. (See the CommStat 3 Product Data Sheet for details.)

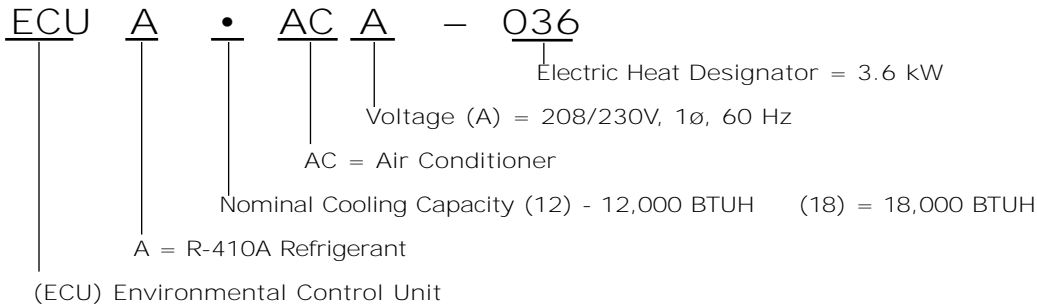
LL357D4 Lead/Lag Controller, P/N S/07529

Two stage cool and heat thermostat with solid state module for redundant operation with adjustable interstage differential. (See the LL357D4 Product Data Sheet for details.)

Thermostat, P/N 50123

One stage cool, one stage heat, seven day programmable. Fan switch: auto & on, auto-changeover system switch, keypad lockout, non-volatile program memory.

Model Identification



Example:

ECUA18ACA-036 =

Counterflow Vertical Package ECU Nominal 1.5 tons; 208/230V, 1Ø, 60 Hz; 3.6 kW Electric Heat

Summary Ratings

ELECTRIC HEAT		000 = None		036 = 3.6 kW	
BASIC MODEL	VOLTAGE / PHASE / HZ	CKT #1		CKT #1	
		MCA	MFS	MCA	MFS
ECUA12ACA (N)	208-230/1/60	9.3	15	19.7	20
ECUA18ACA (N)	208-230/1/60	14.9	20	20.4	25

MCA = Minimum Circuit Ampacity (Wire Sizing Amps) MFS = Max. Fuse Size or HACR circuit breaker

Electrical Characteristics

BASIC MODEL	COMPRESSOR					OUTDOOR MOTOR				INDOOR MOTOR			
	TYPE	VOLTS-HZ PH	RLA	LRA	MCC	VOLTS-HZ PH	RPM	FLA	HP	VOLTS-HZ PH	RPM	FLA	HP
ECUA12ACA (N)	Rotary	208/230-60-1	6.3	29.0	9.8	208/230-60-1	1050	0.50	1/15	208/230-60-1	1600	0.95	1/8
ECUA18ACA (N)	Scroll	208/230-60-1	9.0	48.0	14.0	208/230-60-1	825	2.00	1/3	208/230-60-1	1075	1.60	1/4

RLA = Rated Load Amps LRA = Locked Rotor Amps MCC = Maximum Continuous Current RPM = Revolutions per Minute
FLA = Full Load Amps HP = Horsepower

Unit Load Amps

BASIC MODEL NUMBER	VOLTAGE HERTZ PHASE	CURRENT AMPS		LOAD OF RESISTIVE HEATING ELEMENTS ONLY (AMPS)	TOTAL MAXIMUM HEATING AMPS (STANDARD UNIT)
		AC UNIT	IBM	3.6 kW	3.6 kW
ECUA12ACA (N)	208/230-60-1	7.75	0.95	15.00	15.95
ECUA18ACA (N)	208/230-60-1	12.60	1.60	15.00	16.60

IBM = Indoor Blower Motor

Air Flow

CFM @ ESP (Dry Coil)						
Model	.00	.05	.10	.15	.20	.25
ECUA12	510	470	450	420	390	360
ECUA18	750	710	680	650	625	600

CFM = Cubic Feet/Minute Indoor Air Flow
ESP = External Static Pressure in Inches WG

ECUA12 Total & Sensible Cooling Capacity

Data based upon 80°F Dry Bulb/ 67°F wet bulb return air temperature at Various Outdoor Temperatures. Airflow at 450 CFM											
Outdoor temperature	70°F	75°F	80°F	85°F	90°F	95°F	100°F	105°F	110°F	115°	120°F
Total cooling (BTUH)	10,570	10,370	10,170	9,975	9,788	9,600	9,165	8,730	8,105	7,480	6,860
Sensible Cooling (BTUH)	6,930	6,860	6,790	6,720	6,655	6,590	6,435	6,280	6,065	5,850	5,640

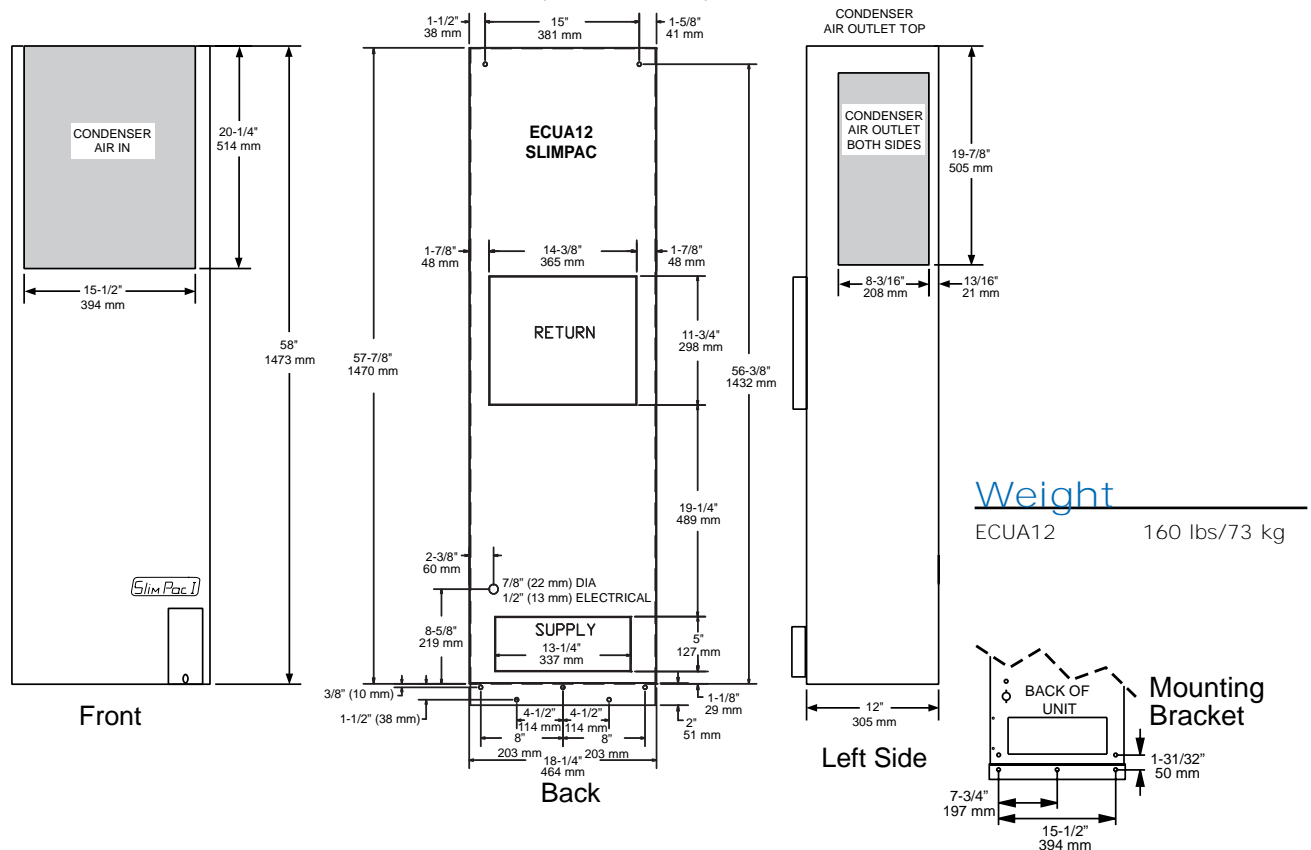
Data based upon 26.5°C Dry Bulb/ 19.5°C wet bulb return air temperature at Various Outdoor Temperatures. Airflow at 760 m3/hr.											
Outdoor temperature	21°C	24°C	26.5°C	29°C	32°C	35°C	38°C	40.5°C	43.3°C	46°	48.4°C
Total cooling (kW)	3.10	3.04	2.98	2.92	2.87	2.81	2.69	2.56	2.37	2.19	2.01
Sensible Cooling (kW)	2.03	2.01	1.99	1.97	1.95	1.93	1.89	1.84	1.78	1.71	1.65

ECUA18 Total & Sensible Cooling Capacity

Data based upon 80°F Dry Bulb/ 67°F wet bulb return air temperature at Various Outdoor Temperatures. Airflow at 500 CFM											
Outdoor temperature	70°F	75°F	80°F	85°F	90°F	95°F	100°F	105°F	110°F	115°	120°F
Total cooling (BTUH)	16,075	15,770	15,470	15,170	14,885	14,600	13,938	13,275	12,325	11,375	10,430
Sensible Cooling (BTUH)	9,835	9,725	9,610	9,500	9,395	9,290	9,050	8,810	8,470	8,130	7,800

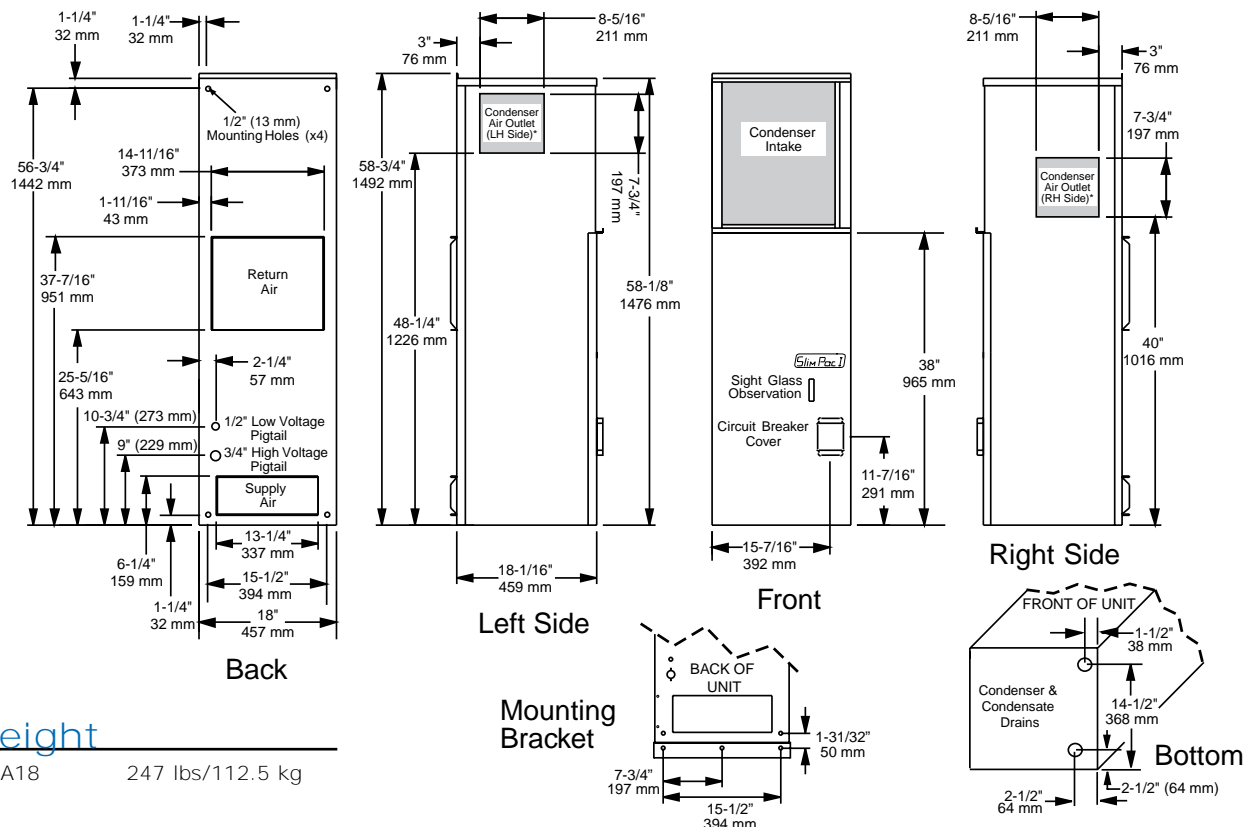
Data based upon 26.5°C Dry Bulb/ 19.5°C wet bulb return air temperature at Various Outdoor Temperatures. Airflow at 850 m3/hr.											
Outdoor temperature	21°C	24°C	26.5°C	29°C	32°C	35°C	38°C	40.5°C	43.3°C	46°	48.4°C
Total cooling (kW)	4.71	4.62	4.53	4.44	4.36	4.28	4.08	3.89	3.61	3.33	3.06
Sensible Cooling (kW)	2.88	2.85	2.82	2.78	2.75	2.72	2.65	2.58	2.48	2.38	2.29

Dimensional Data – SlimPac (ECUA12)





Dimensional Data – SlimPac (ECUA18)



Weight

ECUA18 247 lbs/112.5 kg

*Condenser air outlet can be from either left or right side. Condenser air outlet can be selected in field.

Please consult the Marvair® website at www.marvair.com for the latest product literature. Complete installation instructions are in the SlimPac Manual. Detailed dimensional data available upon request. A complete warranty statement can be found in each product's Installation/Operation Manual, on our website or by contacting Marvair at 229-273-3636. As part of the Marvair continuous improvement program, specifications are subject to change without notice.



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