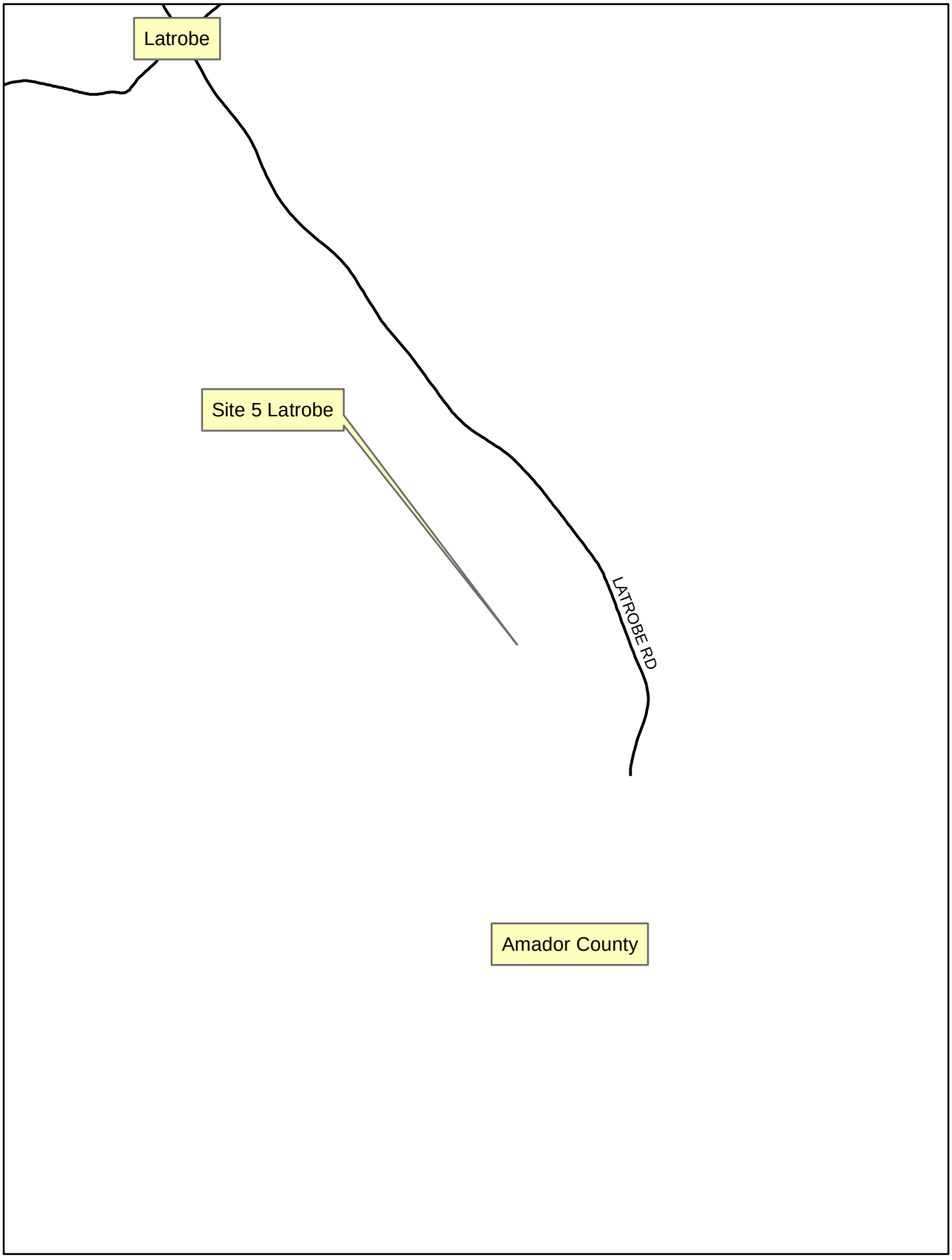


S17-0016/AT&T CAF4
Site 5 Latrobe
Location Map
Exhibit A

N

S

0 0.325 0.65 1.3 Miles

POR. SECS. 22, 23, & 26, T.8N., R.9E., M.D.M.

87:18

1 " = 800 '

P 03

P 04

P 05

P 06

PM 17/61/1 (1) 21.67 A

PM 17/61/3 (2) 21.12 A

PM 17/61/13 (3) 20.55 A

PM 17/61/12 (4) 22.19 A

PM18/73/A (20) 10.34 A

PPM 18/73/B (39) 10.492 A

(22) PM18/73/D 10.24 A

PPM 18/73/C (24) 10.74 A

PPM 18/73/C (23) 20.42 A

(40) NA

PM 17/61/4 (6) 20.84 A

PM 17/61/11 (5) 21.35 A

PM 17/61/10 (19) 21.53 A

PM 17/61/5 & RS 33/13 (7) 20.51 A

PM 17/61/6 (8) 20.12 A

PM 17/61/7 (9) 20.02 A

PM 17/61/8 (18) 20.34 A

PM 17/61/9 (25) 22.74 A

PM 17/61/21 (37) 20.64 A

PM 17/61/26 (36) 20.04 A

PM 17/61/27 (35) 20.22 A

PM 17/61/22 (38) 20.78A

PM 17/61/20 (26) 21.1 A

PM 17/61/23 (34) 20.03 A

RS 32/9/1 (47) 20.01 A

RS 32/9/2 (48) 60.25 A

PM 23/30/B (16) 20.03 A

PM 17/61/19 (43) 27.15 A

PM 17/61/18 (29) 21.4 A

PPM 17/61/24 (44) 21.81 A

RS21/47/1 (10) 20.0 A

RS 9/89 (11) 20.0 A

PM 17/61/28 (15) 20.0 A

PM 17/61/17 (30) 20.5 A

PM 17/61/25 (32) 36.35 A (TOTAL)

PM 45/2/1 (41) 20.23 A

PM 17/61/29 (14) 20.01 A

PM 17/61/16 (31) 21.27 A

PM 45/2/2 (42) 20.04 A

PM 17/61/30 (13) 20.02 A

RS 16/112 15.34 A

CHAPARRAL DR

FALCON HAVEN RD

DOUBLEGROVE ST

LATROBE RD

LOST HORIZON RD

DRAGON POINT RD

INDEPENDENCE RD

WHITE HAWK RD

FALCON HAVEN RD

LOT 12

LOT 13

Big Canyon Creek

Clark Creek

Cosumnes River

AMADOR COUNTY

THIS MAP IS NOT A SURVEY, it is prepared by the El Dorado Co. Assessor's office for assessment purposes only. Area calculations and characteristics are not guaranteed. Users should verify items such as dimensions and acreage.

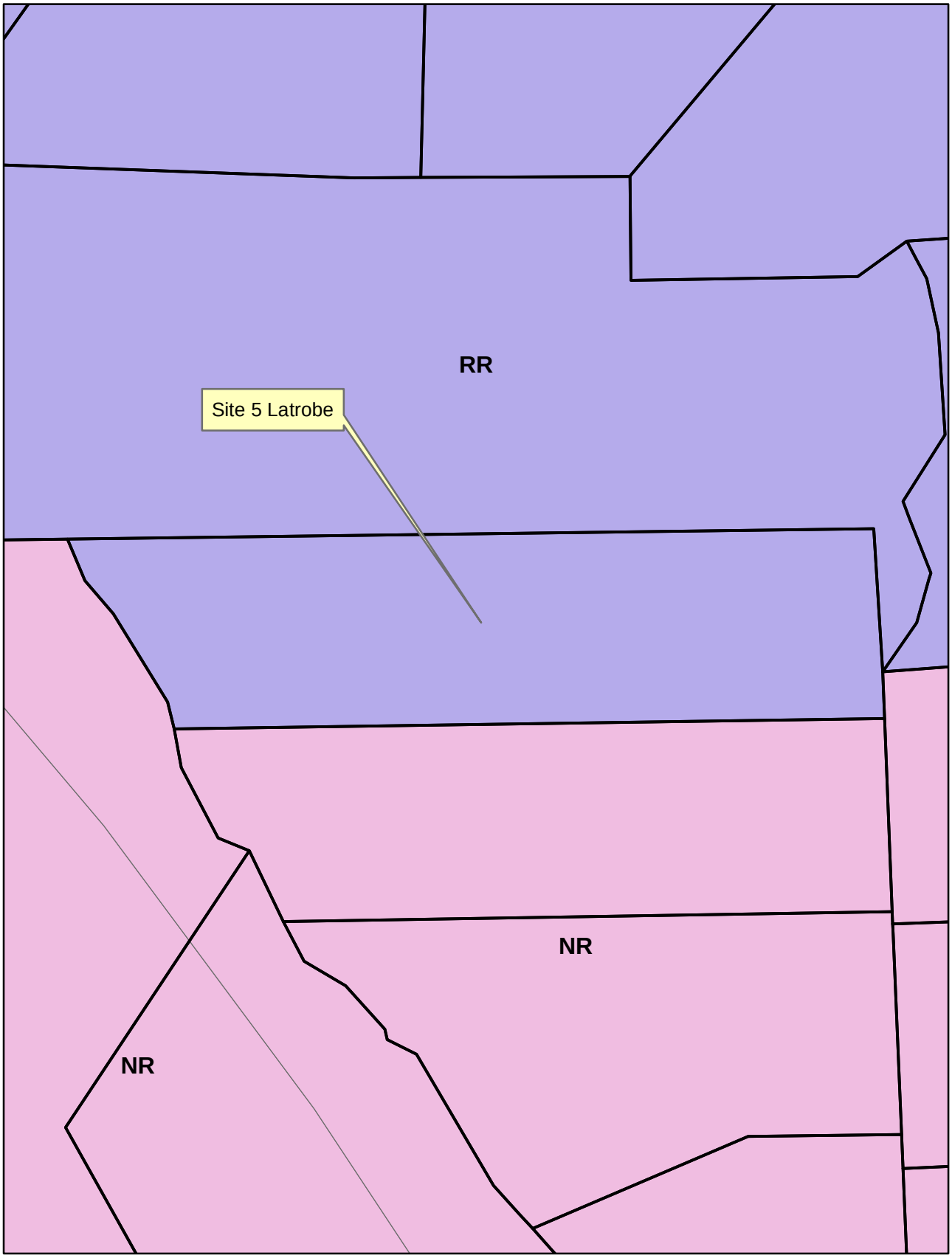
Acreages Are Estimates

Adjacent Map Pages Shown in Grey Text
Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Circles

Rev. Oct. 15, 2013

Exhibit B
Site 5 Latrobe

Assessor's Map Bk. 087, Pg. 18
County of El Dorado, CA



S17-0016/AT&T CAF4
Site 5 Latrobe
General Plan Map
Exhibit C

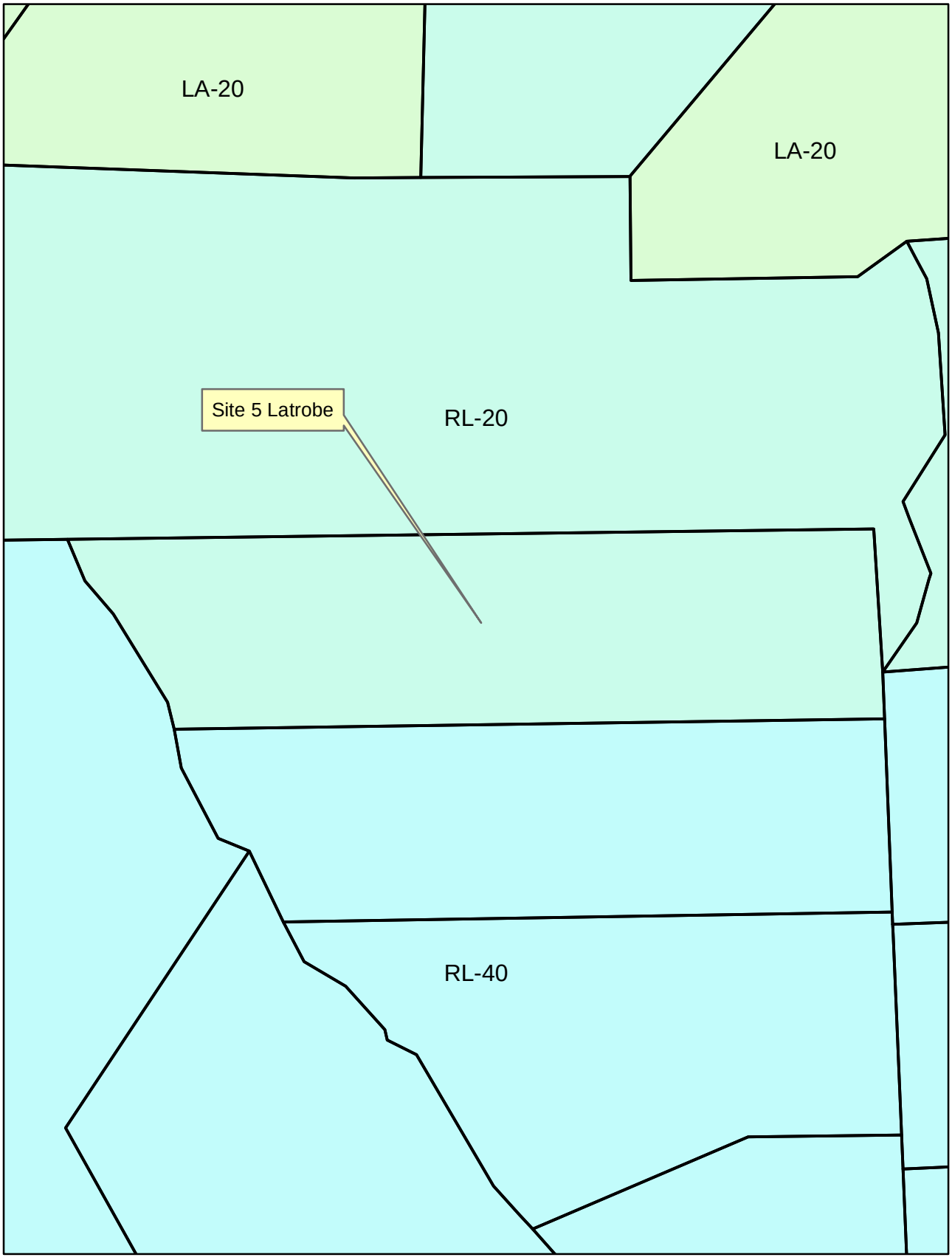
N

S

NR

RR

0 0.05 0.1 0.2 Miles



S17-0016/AT&T CAF4
Site 5 Latrobe
Zoning Map
Exhibit D

N

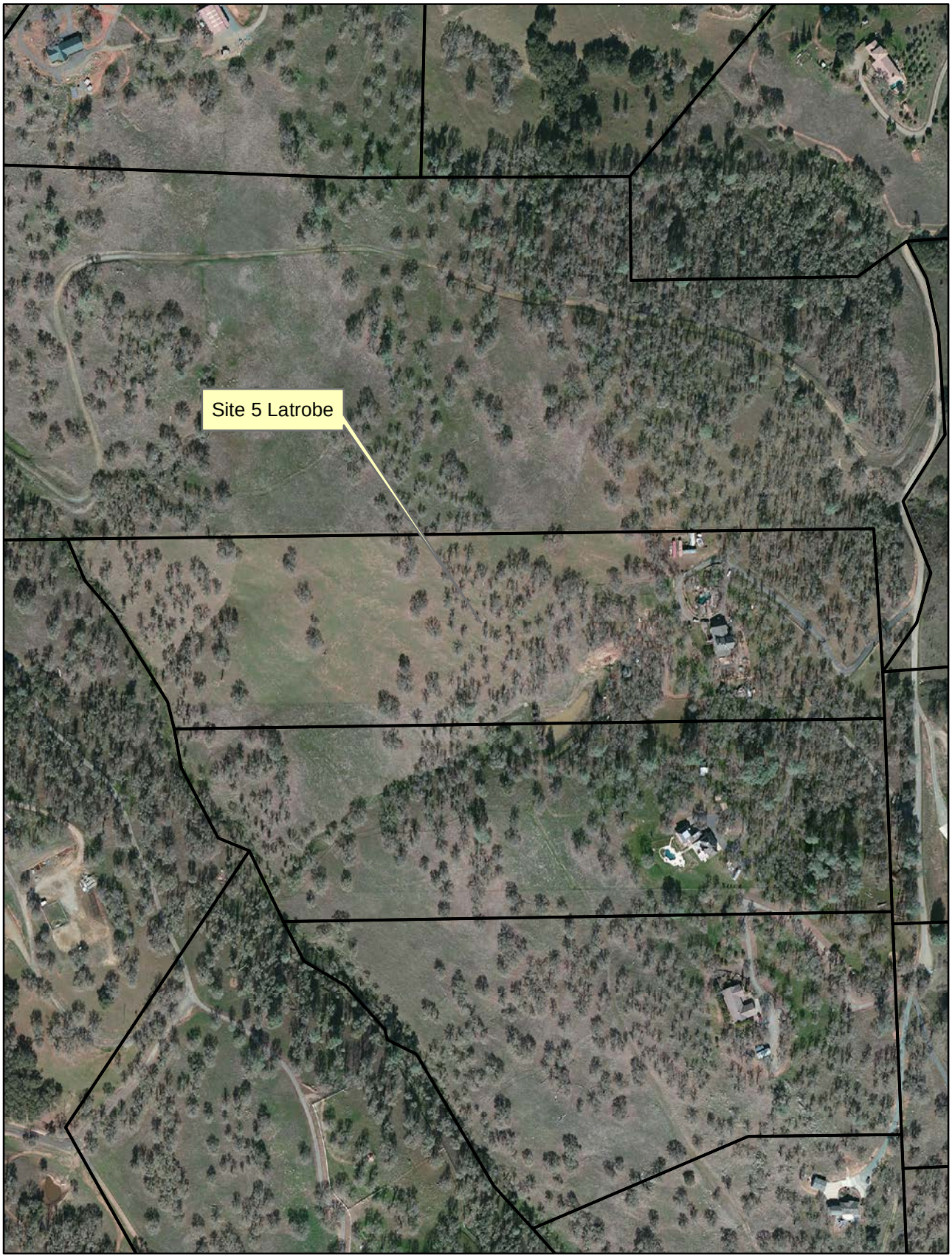
S

LA-20

RL-20

RL-40

0 0.05 0.1 0.2 Miles



S17-0016/AT&T CAF4
Site 5 Latrobe
Aerial Map
Exhibit E

N

S

0 0.05 0.1 0.2 Miles

SITE NUMBER: CVL03138
SITE NAME: LATROBE

7160 DRAGON POINT RD
SHINGLE SPRINGS, CA 95682

PROJECT INFORMATION

APPLICANT:
AT&T MOBILITY
2600 CAMINO RAMON
SAN RAMON, CA 94583

CONSTRUCTION MANAGER:
PETE MANAS
EPIC WIRELESS
8700 AUBURN FOLSOM ROAD, SUITE 400
GRANITE BAY, CA 95746
(530) 383-5957

SITE SURVEY
GEIL ENGINEERING
1226 HIGH STREET
AUBURN, CA 95603
(530) 885-0426

RF ENGINEER:
MUHAMMAD AHMED
MA912P@ATT.COM

RFDS VERSION/DATE:
1.00.01 / 04-28-17

ENGINEERING FIRM:
PEEK SITE-COM
12852 EARHART AVE SUITE 101
AUBURN, CA 95602
(530) 885-6160

SITE ACQUISITION & PLANNING:
JARED KEARSLEY
EPIC WIRELESS
8700 AUBURN FOLSOM ROAD, SUITE 400
GRANITE BAY, CA 95746
(916) 755-1326

CIVIL VENDOR:
VINCULUMS CONSTRUCTION MANAGER
KEN ABEL
KABEL@VINCULUMS.COM
(916) 844-4602

PROJECT TEAM

SITE NAME:	LATROBE
SITE NUMBER:	CVL03138
FA LOCATION#:	13787643
SITE ADDRESS:	7160 DRAGON POINT RD SHINGLE SPRINGS, CA 95682
ASSESSORS PARCEL NUMBER:	087-181-10-100
LATITUDE:	38.529211°
LONGITUDE:	-120.963497°
ZONING:	RL-20
JURISDICTION:	EL DORADO COUNTY
COUNTY:	EL DORADO
PROPERTY OWNER:	DOUGLAS BRAUN
OWNER ADDRESS:	7160 DRAGON POINT RD SHINGLE SPRINGS, CA 95682
POWER AGENCY:	PG&E 525 MARKET ST. SPEAR TOWER SAN FRANCISCO, CA 94105 PHONE: 1 (800) 310-2355
TELEPHONE AGENCY:	AT&T

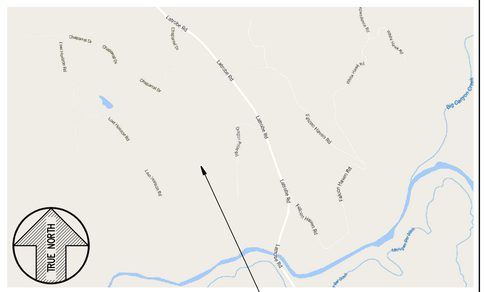
SHEET INDEX

CODE COMPLIANCE

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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. 2016 CALIFORNIA BUILDING CODE
2. 2016 CALIFORNIA FIRE CODE
3. 2016 CALIFORNIA ELECTRICAL CODE
4. 2016 CALIFORNIA PLUMBING CODE
5. 2016 CALIFORNIA MECHANICAL CODE
6. 2016 CALIFORNIA HEALTH AND SAFETY CODE

VICINITY MAP



DIRECTIONS FROM AT&T

DIRECTIONS FROM AT&T'S OFFICE AT 2600 CAMINO RAMON, SAN RAMON, CA

1. TURN RIGHT ONTO CAMINO RAMON
2. CONTINUE STRAIGHT TO STAY ON CAMINO RAMON
3. TURN RIGHT ONTO BOLLINGER CANYON RD
4. MERGE ONTO I-680 N
5. TAKE EXIT 71A TOWARD I-80 E/SACRAMENTO
6. MERGE ONTO I-80 E
7. KEEP LEFT AT THE FORK TO CONTINUE ON I-80BL E/US-50 E/CAPITAL CITY FREEWAY, FOLLOW SIGNS FOR INTERSTATE 80 BUSINESS/SACRAMENTO/SOUTH LAKE TAHOE
8. CONTINUE ONTO US-50 E
9. TAKE EXIT 30A TO MERGE ONTO LATROBE RD
10. CONTINUE ON LATROBE RD. DRIVE TO LOST HORIZON RD
11. MERGE ONTO LATROBE RD
12. TURN RIGHT ON DRAGON POINT RD

PROJECT DESCRIPTION

AT&T PROPOSES TO CONSTRUCT A NEW UNMANNED TELECOMMUNICATIONS FACILITY. AT&T WILL INSTALL:

- (1) NEW 12' WIDE A/C PAVED ACCESS ROAD
- (1) NEW 30'X35' FENCED LEASE AREA
- (1) NEW 6' CHAIN LINK FENCE
- (1) NEW 12' WIDE DOUBLE ACCESS GATE
- (1) NEW 140' BROADLEAF POLE
- (1) NEW PRE-FAB EQUIPMENT SHELTER WITH ANCILLARY INTERIOR EQUIPMENT
- (1) NEW GPS ANTENNA
- (1) NEW 35kw PROPANE GENERATOR
- (1) LP PROPANE TANK (500 GALLON)
- (12) NEW ANTENNAS
- (9) NEW RRUS-11, (9) NEW RRUS-32 & (3) FUTURE RRUS
- (4) NEW SURGE SUPPRESSORS
- (2) FUTURE 4' M/W DISH

OCCUPANCY & CONST. TYPE

OCCUPANCY: U (UNMANNED)

CONSTRUCTION TYPE: V-B

ACCESSIBILITY REQUIREMENTS:
THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2016 CALIFORNIA BUILDING CODE, CHAPTER 11B, EXCEPTION SECTION 11B-203.5

SPECIAL INSPECTIONS

*SEE SPECIAL INSPECTION FORM

1. POST-INSTALLED ANCHORS
2. HIGH STRENGTH BOLTING

Exhibit F
Site 5 Latrobe

APPROVALS

APPROVED BY:	INITIALS:	DATE:
AT&T:		
VENDOR:		
R.F.:		
LEASING/LANDLORD:		
ZONING:		
CONSTRUCTION:		
POWER/TELCO:		
PG&E:		

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE 24"X36". 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.

CALL 811 BEFORE YOU DIG 811 SAFE DIGGING PARTNER

CLIENT:

2600 CAMINO RAMON
SAN RAMON, CA 94583

PROJECT INFORMATION:

LATROBE
7160 DRAGON POINT RD
SHINGLE SPRINGS, CA 95682

REV:	DATE:	DESCRIPTION:	BY:
1	4-27-17	90% ZONING DOC'S	RB
2	5-10-17	REV 90% ZONING DOC'S	RB
3	5-24-17	REV 90% ZONING DOC'S	RB
4	6-13-17	REV 90% ZONING DOC'S	RB
5	8-2-17	REV 90% ZONING DOC'S	RB
6	8-21-17	100% ZONING DOC'S	RB

COORDINATING ENGINEER:

Peek Site-Com
12852 Earhart Ave. Suite 101
Auburn, California 95602
Phone (530) 885-6160
E-Mail info@peeksitecom.com

SEAL:

REGISTERED PROFESSIONAL ENGINEER
CHRIS OLIVERI
NO. C 33407
EXP. 06/30/18
CIVIL
STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:	REVISION:
T-1	0

GENERAL CONSTRUCTION NOTES:

1. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, AND THIS SET OF PLANS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANYTHING ELSE DEEMED NECESSARY TO COMPLETE INSTALLATIONS AS DESCRIBED HEREIN.

2. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS, FIELD CONDITIONS AND CONFIRM THAT THE PROJECT MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY ERRORS, OMISSIONS, OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

3. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/ CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/ VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
6. ALL WORK PERFORMED ON PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
7. GENERAL CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
8. THE STRUCTURAL COMPONENTS OF THIS PROJECT SITE/ FACILITY ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.
9. DETAILS INCLUDED HEREIN ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR SITUATIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE SCOPE OF WORK.
10. SEAL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.
11. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
13. CONTRACTOR SHALL SEE TO IT THAT GENERAL WORK AREA IS KEPT CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
14. THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.

ABBREVIATIONS

ABV.	ABOVE
ADD'L	ADDITIONAL
A.G.L.	ABOVE GROUND LEVEL
ALUM.	ALUMINUM
APPROX.	APPROXIMATELY
AWG.	AMERICAN WIRE GAUGE
BLDG.	BUILDING
BLK.	BLOCKING
CAB.	CABINET
CONC.	CONCRETE
CONN.	CONNECTION(OR)
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
DBL.	DOUBLE
DEPT.	DEPARTMENT
D.F.	DOUGLAS FIR
DIA.	DIAMETER
DIM.	DIMENSION
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
EMT.	ELECTRICAL METALLIC TUBING
ENG.	ENGINEER
EQ.	EQUAL
(E)	EXISTING
EXT.	EXTERIOR
FAB.	FABRICATION
F.A.	FINISHED FLOOR
F.B.	FINISHED GRADE
FT. (')	FOOT (FEET)
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZE(D)
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER
GPS	GLOBAL POSITIONING SYSTEM
GRND.	GROUND(ING)
HT.	HEIGHT
ICGB.	ISOLATED COPPER GROUND BUS
IN. (")	INCH(ES)
INT.	INTERIOR
L.B.	LAG BOLTS
L.F.	LINEAR FEET (FOOT)
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL	METAL
(N)	NEW
NO. (#)	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
P/C	PRECAST CONCRETE
PPC	POWER PROTECTION CABINET
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
QTY.	QUANTITY
RAD. (R)	RADIUS
REF.	REFERENCE
REINF.	REINFORCEMENT(ING)
REQ.'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
SCH.	SCHEDULE
SHT.	SHEET
SPEC.	SPECIFICATIONS
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUC.	STRUCTURAL
TEMP.	TEMPORARY
T.O.A.	TOP OF ANTENNAS
T.O.F.	TOP OF FOUNDATION
T.O.P.	TOP OF PLATE (PARAPET)
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U/G	UNDER GROUND
V.I.F.	VERIFY IN FIELD
W	WIDE (WIDTH)
W/	WITH
WT.	WEIGHT

SYMBOLS LEGEND

- WOOD FENCE
- CHAIN LINK FENCE
- HIDDEN LINE
- COAX/POWER/FIBER CONDUIT
- PROPERTY LINE
- ±0'-0" AGL — ELEVATION DATUM
- EARTH
- CONCRETE
- SAND
- GRATE PLATFORM
- GRAVEL
- FRP (FIBERGLASS REINFORCED PLASTIC)
- NEW DC SURGE SUPPRESSOR
- NEW ANTENNA
- NEW RRU

CLIENT:

at&t

2600 CAMINO RAMON
SAN RAMON, CA 94583

PROJECT INFORMATION:

LATROBE
7160 DRAGON POINT RD
SHINGLE SPRINGS, CA 95682

REV:	DATE:	DESCRIPTION:	BY:
1	4-27-17	90% ZONING DOC'S	RB
2	5-10-17	REV 90% ZONING DOC'S	RB
3	5-24-17	REV 90% ZONING DOC'S	RB
4	6-13-17	REV 90% ZONING DOC'S	RB
5	8-2-17	REV 90% ZONING DOC'S	RB
6	8-21-17	100% ZONING DOC'S	RB

COORDINATING ENGINEER:

Peek Site-Com
12852 Earhart Ave. Suite 101
Auburn, California 95602
Phone (530) 885-6160
E-Mail info@peeksitecom.com

SEAL:

REGISTERED PROFESSIONAL ENGINEER
CHRIS OLIVIER
NO. C 33407
EXP. 06/30/18
CIVIL
STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:	REVISION:
GN-1	0

at&t

This Site Operated by:

AT&T MOBILITY
2600 CAMINO RAMON, 4W850 N
SAN RAMON, CA 94583
IN CASE OF FIRE AND THE NEED FOR SHUTDOWN
TO DEACTIVATE ANTENNAS CALL
THE FOLLOWING NUMBER:
For 24 Hour Emergency Contact and Access Please Call:
(800) 832-6662

Reference Site#: CVL03138
Site Address: 7160 Dragon Point Rd, Latrobe, CA 95682

FENCED COMPOUND SIGNAGE

NO
TRESPASSING

FENCED COMPOUND SIGNAGE

AUTHORIZED
PERSONNEL
ONLY

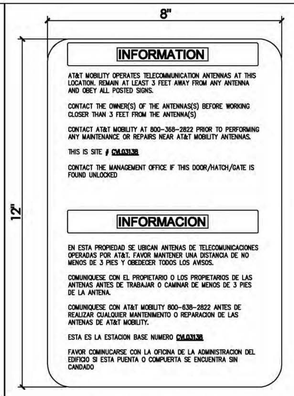
DOOR/EQUIPMENT SIGN

Property of AT&T

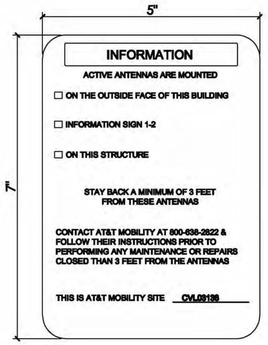
Authorized
Personnel Only

In case of emergency, or prior to performing maintenance on this site, call _____ and reference cell site number _____

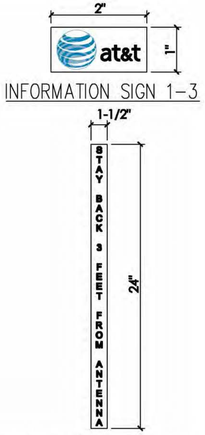
SHELTER/CABINET DOORS SIGNAGE



INFORMATION SIGN 1-1



INFORMATION SIGN 1-2



INFORMATION SIGN 1-3

INFORMATION SIGN 1-4

1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE W/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

2. FABRICATION:

*SIGN 1-1: ENTRANCE DOOR, SEE DETAIL 1A, THIS SHEET
SIGN 1 IS TO BE MADE ON THE 50 MIL ALUMINUM SHEETING (SIZE 8 INCHES BY 12 INCHES) W/ (4) 1/4 INCH MOUNTING HOLES, ONE EACH CORNER OF THE SIGN FOR MOUNTING W/ HARDWARE W/ TIE WRAPS. THE MAIN BACKGROUND COLOR IS THE BE WHITE FRONT & BACK W/ BLACK LETTERING

THE INFORMATION BAND SHALL BE 1.2 INCH SOLID GREEN BAND W/ 0.5 INCH HIGH BLACK LETTERING. THE BODY OF THE TEXT SHALL BE IN BLACK LETTERING W/ 0.2 INCH HIGH LETTERS. THE REF LINE SHALL NE IN 1/8 INCH LETTERS.

THE PLACEMENT OF TEXT SHALL BE DONE IN A MANNER THAT WILL PERMIT EASY READING FROM A DISTANCE OF APPROXIMATELY 6 FEET IN FRONT OF THE SIGN.

ALL PAINT WILL BE BAKER W/ ENAMEL W/ UV PROTECTIVE COATING OVER THE FACE OF THE SIGN.

*SIGN 1-2 POLE, SEE DETAIL 1B, THIS SHEET.

SIGN 2 MUST BE A NON METALLIC LABEL W/ AN ADHESIVE BACKING, THE LABEL SHALL BE MADE USING VINYL OR SIMILAR WEATHERPROOF MATERIAL, THE LABEL SHALL BE APPROXIMATELY 5X7 INCHES W/ A WHITE BACKGROUND AND BLACK LETTERING. THE GREEN BAND SHALL BE 1.375 INCH IN HEIGHT & THE LETTERING SHALL BE BLACK W/ 0.75 INCH HIGH LETTERS. THE TEXT LETTERING SHALL BE BLACK W/ 1/8 INCH HIGH LETTERS. UV PROTECTION SHALL BE PLACED OVER THE FRONT OF THE LABEL.

*SIGN 1-3: BACK OF ANTENNAS, SEE DETAIL 1C & 3, THIS SHEET

*SIGN 3 IS A 1 INCH X 2 INCH PANEL THAT CAN BE APPLIED TO THE BACK OR SIDE OF AN ANTENNA TO IDENTIFY IT AS AN AT&T ANTENNA.

*SIGN 1-4: SIDE OF ANTENNAS, SEE DETAIL 1D & 3, THIS SHEET

SIGN 4 IS MADE FROM TRANSPARENT MATERIAL 1-1/2 INCHES WIDE & 24 INCHES LONG. THE LETTERING IS TO BE BLACK W/ 1/2 INCH LETTERING IN A VERTICAL COLUMN. THE SPACING BETWEEN WORDS MUST BE SUCH THAT IT IS EASILY READ & FILLS THE LENGTH OF THE SIGN

INFORMATION SIGNAGE

FCC ASR SIGNAGE

Property of AT&T

Authorized
Personnel Only

No Trespassing
Violators will be Prosecuted

In case of emergency, or prior to performing maintenance on this site, call _____ and reference cell site number _____

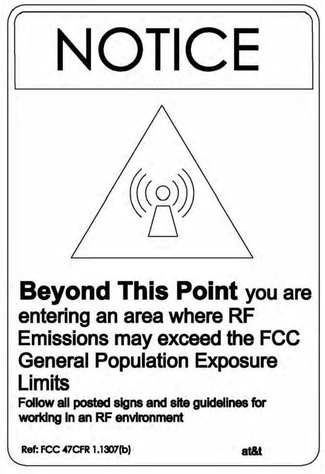
GATE SIGNAGE

NOTE:

1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE W/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

2. CONTRACTOR SHALL CONTACT AT&T R-RFSC FOR INFORMATION ON MPE LEVELS AND INSTRUCTIONS ON LEVEL AND LOCATION OF SIGNAGE

CAUTION AND WARNING SIGN



NOTICE SIGN

GENERAL NOTES

SIGNAGE AND STRIPING INFORMATION

1. THE FOLLOWING INFORMATION IS A GUIDELINE W/ RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT W/ ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.

2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1MWCM*2 AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5MWCM*2

3. IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR WORKING PLATFORM LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.

4. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (E.G. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.

5. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (E.G. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES & STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.

6. ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR Y THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY W/ ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS SHALL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (E.G. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.

7. PHOTOS OF ALL STRIPING, BARRICADES & SIGNAGE SHALL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PACKAGE & SHALL BE TURNED INTO THE AT&T CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE W/ FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE W/ THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED W/ FADE RESTRAINT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED, & SHALL PROVIDE THE AT&T CONSTRUCTION PROJECT MANAGER W/ A DETAILED

8. SHOP DRAWING OF EACH BARRICADE. UPON CONSTRUCTION COMPLETION.

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO PEEK SITE-COM IS STRICTLY PROHIBITED

CLIENT:

at&t

2600 CAMINO RAMON
SAN RAMON, CA 94583

PROJECT INFORMATION:

LATROBE
7160 DRAGON POINT RD
SHINGLE SPRINGS, CA 95682

REV:	DATE:	DESCRIPTION:	BY:
1	4-27-17	90% ZONING DOC'S	RB
2	5-10-17	REV 90% ZONING DOC'S	RB
3	5-24-17	REV 90% ZONING DOC'S	RB
4	6-13-17	REV 90% ZONING DOC'S	RB
5	8-2-17	REV 90% ZONING DOC'S	RB
6	8-21-17	100% ZONING DOC'S	RB

COORDINATING ENGINEER:

Peek Site-Com
12852 Earhart Ave. Suite 101
Auburn, California 95602
Phone (530) 885-6160
E-Mail info@peeksitecom.com

SEAL:

REGISTERED PROFESSIONAL ENGINEER
CHRIS OLIVETA
NO. C 33407
EXP. 06/30/18
CIVIL
STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

SHEET TITLE:

SITE SIGNAGE

SHEET NUMBER: GN-2 REVISION: 0

CVL03138 Latrobe
Lease Area Description

All that certain lease area being a portion that certain Tract 1 as delineated on the plat filed in Book 21 of Surveys, Page 47 El Dorado County, California being more particularly described as follows:

Equipment Lease Area
Commencing at the Northeast corner of the aforementioned Tract 1 thence along the North boundary thereof West, 1084.50 feet; thence leaving said North boundary South, 30.00 feet to the True Point of Beginning; thence from said point of beginning South 50°00'01" East, 35.00 feet; thence South 39°59'59" West, 30.00 feet; thence North 50°00'01" West, 35.00 feet; thence North 39°59'59" East, 30.00 feet to the point of beginning.

Together with easement for access and utility purposes, fifteen feet in width, the centerline of which is described as follows: Beginning at a point on the Northeast boundary of the above described lease area which bears South 50°00'01" East, 11.67 feet from the North corner thereof; thence from said point of beginning East, 195.77 feet; thence along a tangent curve to the East, having a radius of 62.50 feet and a central angle of 45°00'00"; thence along said curve a distance of 49.09 feet,; thence South 45°00'00" East, 9.43 feet; thence along a tangent curve to the Southeast, having a radius of 57.50 feet and a central angle of 45°00'00"; thence along said curve a distance of 45.16 feet.; thence North 90°00'00" East, 12.56 feet thence along a non-tangent curve to the East, having a radius of 62.50 feet a central angle of 59°17'32", and a chord of 61.83 feet bearing North 60°21'14" West; thence along said curve a distance of 64.68 feet; thence South 30°42'28" East, 41.63 feet; thence along a tangent curve to the Southeast, having a radius of 47.50 feet and a central angle of 77°30'23"; thence along said curve a distance of 64.26 feet, ; thence North 74°43'43" East, 99.68 feet; thence along a tangent curve to the East, having a radius of 42.50 feet and a central angle of 18°45'22"; thence along said curve a distance of 13.91 feet, thence along a reverse curve, having a radius of 57.50 feet a central angle of 35°45'47", thence along said curve a distance of 35.89 feet; thence North 57°43'19" East, 80.67 fee; thence along a tangent curve to the Northeast, having a radius of 57.50 feet and a central angle of 65°48'20"; thence along said curve a distance of 66.04 feet, ; thence South 56°28'21" East, 41.48 feet; thence along a tangent curve to the Southeast, having a radius of 1024.67 feet and a central angle of 13°49'55"; thence along said curve a distance of 247.37 feet, thence along a reverse curve, having a radius of 77.50 feet a central angle of 13°56'30", thence along said curve a distance of 18.86 feet; thence South 28°41'56" East, 84.25 feet to a point hereafter referred to as Point A; thence along a tangent curve to the Southeast, having a radius of 27.50 feet and a central angle of 108°12'42"; thence along said curve a distance of 51.94 feet, ; thence North 43°05'22" East, 97.47 feet to a point on the East boundary of the aforementioned Tract 1; thence along the roadway easement described in Document 2002-46499 of official Records of El Dorado County North 43°05'22" East, 116.51 feet more or less to non-exclusive road and public utility easement as shown on that certain plat filed in Book 23 of Parcel Maps, Page 30 El Dorado County Records; thence along said easement to the public right of way commonly known as Latrobe Road.

Together with easement for access and utility purposes, six feet in width, the centerline of which is described as follows: Beginning at the above described Point A and running thence South 14°06'14" East 58.0 feet more or less to an existing utility service connection location.

DATE OF SURVEY: 04-12-17

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, RCE 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 UNLESS OTHERWISE NOTED.

N.G.V.D. 1929 CORRECTION: SUBTRACT 2.47' FROM ELEVATIONS SHOWN.

FEMA FIRM: UNMAPPED AREA

CONTOUR INTERVAL: 1 FT.

ASSESSOR'S PARCEL NUMBER: 087-181-10-100

LANDLORD(S): DOUGLAS BRAUN
7160 DRAGON POINT RD.
SHINGLE SPRINGS, CA 95682

Project Name: CVL03138 Latrobe

Project Site Location: 7160 Dragon Point Road
Shingle Springs, CA 95682
El Dorado County

Date of Observation: 04-12-17

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

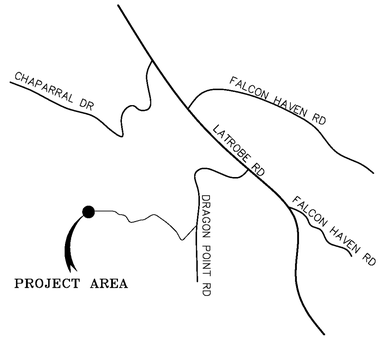
Type of Antenna Mount: Proposed Monopine

Coordinates

Latitude: N 38°31'45.16" (NAD83) N 38°31'45.49" (NAD27)
Longitude: W 120°57'48.59" (NAD83) W 120°57'44.80" (NAD27)

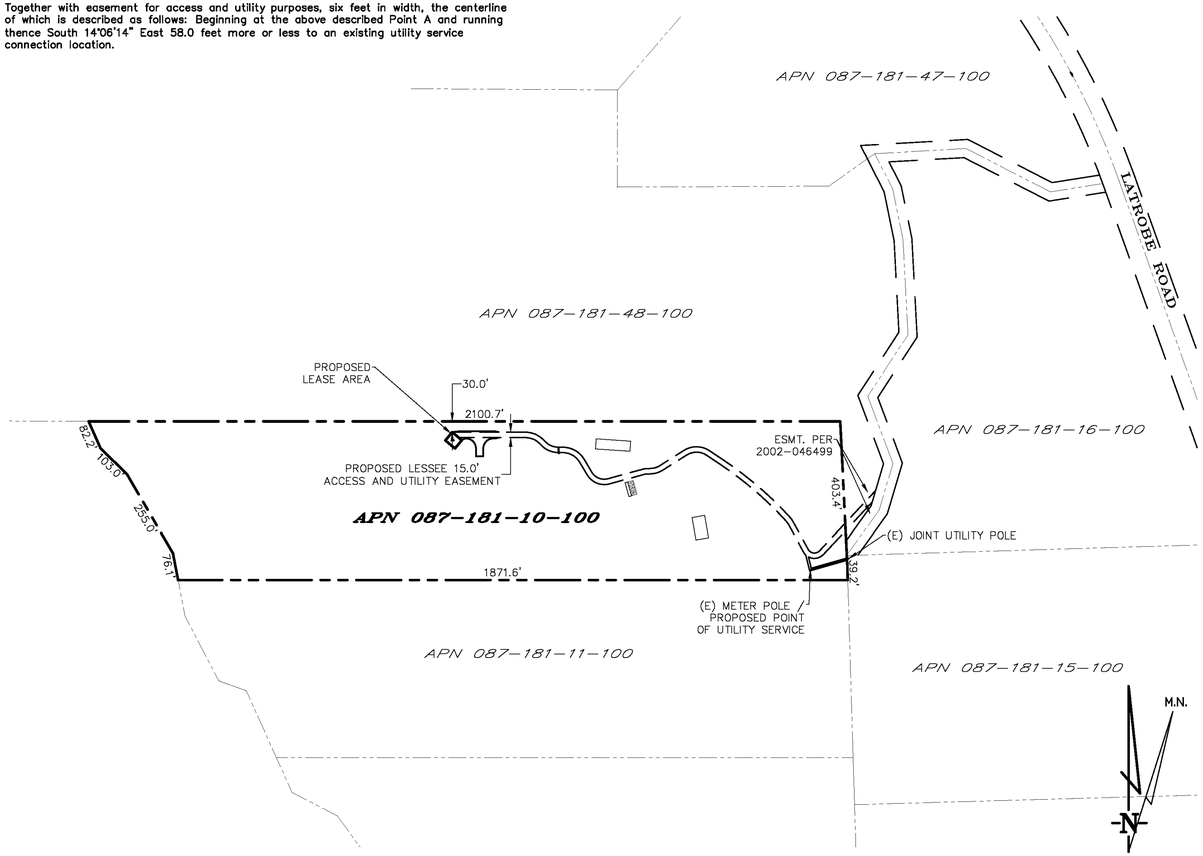
Latitude: N 38.529211° (NAD83) N 38.529303° (NAD27)
Longitude: W 120.963497° (NAD83) W 120.962444° (NAD27)

ELEVATION of Ground at Structure (NAVD88) 742.5' AMSL



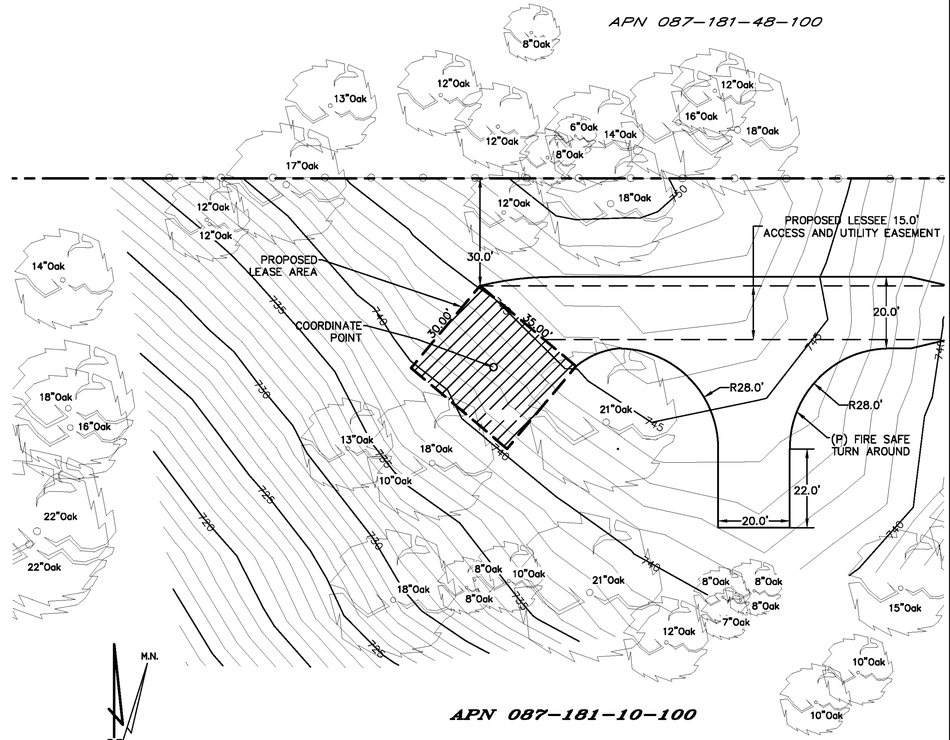
LATROBE, CA — VICINITY MAP

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



SCALE 1" = 200'

OVERALL PROJECT AREA



SCALE 1" = 20'

0 10 20 40 60

LEASE AREA DETAIL

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE/IN		
OPS		
EE/OUT		

Surveyor
GEIL ENGINEERING
SURVEYING • PLANNING
1526 HIGH STREET
AUBURN, CALIFORNIA 95603
Phone: (530) 885-0426
Fax: (530) 823-1309

at&t MOBILITY

CVL03138 Latrobe
7160 Dragon Point Road
Shingle Springs, CA 95682

PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS						
04-17-17	Preliminary Drawing	dg				
06-05-17	rev. lease area	dg				
REV	REV	REV	REV	REV	REV	REV

Sheet
C-1

APN 087-181-48-100

APN 087-181-10-100

PROPOSED LEASE AREA

COORDINATE POINT

PROPOSED LESSEE 15.0' ACCESS AND UTILITY EASEMENT

30.0'

30.0'

35.00'

20.0'

R28.0'

R28.0'

(P) FIRE SAFE TURN AROUND

22.0'

20.0'

(2) 12" CULVERTS

WORK SHOP

M.N.

SCALE 1" = 20'

0 10 20 40 60

LEASE AREA DETAIL

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor

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PLOT PLAN AND SITE TOPOGRAPHY

REVISIONS		
REV	04-17-17	Preliminary Drawing dg
REV	06-05-17	rev. lease area dg
REV		
REV		
REV		
REV		

Sheet

C-2

APN 087-181-48-100

WORK SHOP

(2) 12" CULVERTS

PROPOSED LESSEE 15.0' ACCESS AND UTILITY EASEMENT

PROPOSED LESSEE 15.0' ACCESS AND UTILITY EASEMENT

(E) 12' A.C. ROADWAY

(E) A.C. ROADWAY

(E) RESIDENCE

STORAGE CONTAINER

CONCRETE PAD

16"Oak
16"Oak
20"Oak
24"Oak
16"Oak
16"Oak
18"Oak
24"Oak
16"Oak
16"Oak
20"Oak
22"Oak
10"Oak
7"Oak
16"Oak

APN 087-181-10-100

M.N.

SCALE 1" = 20'

0 10 20 40 60

LEASE AREA DETAIL

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor

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PLOT PLAN AND SITE TOPOGRAPHY

REVISIONS		
REV	04-17-17	Preliminary Drawing dg
REV	06-05-17	rev. lease area dg
REV		
REV		
REV		
REV		
REV		

Sheet

C-3

GENERAL NOTES

1. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY, WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR, ON THE JOB SITE DURING ALL WORKING HOURS.
2. ALL WORK SHALL BE ACCOMPLISHED TO THE SATISFACTION OF THE WASHOE COUNTY AUTHORIZED REPRESENTATIVE.

DEFINITIONS:

(ESC) – EROSION AND SEDIMENT CONTROL
(NPDES) – NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
(CWA) – CLEAN WATER ACT
(SWPPP) – STORM WATER POLLUTION PREVENTION PLAN
(BMP'S) – BEST MANAGEMENT PRACTICES

THE CONTRACTOR SHALL:

MAKE HIM/HERSELF AWARE OF THE REQUIREMENTS OF SAID GENERAL PERMIT AND THE PROVISIONS OF THE GRADING & EROSION CONTROL PLANS.

IMPLEMENT THE ESC FEATURES AND BEST MANAGEMENT PRACTICES (BMP'S) CONTAINED IN THE IMPROVEMENT PLANS, AND OTHERWISE DILIGENTLY PURSUE COMPLIANCE WITH THE LOCAL REQUIREMENTS.

ASSIST THE OWNER, ENGINEER, AND PUBLIC WORKS DEPARTMENT STAFF IN THE ASSESSMENT OF THE FUNCTIONALITY OF AND MODIFICATIONS TO THE FEATURES AND PRACTICES IMPLEMENTED AND PROPOSED.

MEET WITH THE OWNER AND THE PUBLIC WORKS DEPARTMENT STAFF TO DETERMINE AND DISCUSS THE STATUS OF THE PROJECT, CONSTRUCTION SCHEDULE, AND ANY MODIFICATIONS AND/OR ADDITIONS TO THE ESC FEATURES IN ORDER TO DILIGENTLY PURSUE COMPLIANCE.

DOCUMENT ANY MAINTENANCE, REPLACEMENT, INSPECTION, MODIFICATIONS OR ADDITIONS TO THE PROJECT ESC FEATURES, AND NOTIFY THE ENGINEER. OWNER AND PUBLIC WORKS DEPARTMENT STAFF OF ANY SUBSTANTIAL MODIFICATIONS OR ADDITIONS TO THE ESC PRACTICES AND FEATURES. ALL DISTURBED AREAS SHALL BE PROTECTED WITH APPROVED MATERIALS WITHIN 15 DAYS OF COMPLETION OF THE FINISHED GRADES.

MAINTAIN AN INVENTORY OF ESC MATERIALS (STRAW BALES, 1.5" – 3" CLEAN CRUSHED ROCK, FIBER ROLLS, SILT FENCE, ROCK BAGS, ETC.) ON SITE FOR EMERGENCY USE AS DIRECTED BY THE ENGINEER, OWNER, OR THE PUBLIC WORKS DEPARTMENT STAFF.

OTHER RESPONSIBILITIES OF APPLICANT:

A. PROTECTION OF UTILITIES. THE APPLICANT SHALL BE RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ANY PUBLIC UTILITIES OR SERVICES.

B. PROTECTION OF ADJACENT PROPERTY. THE APPLICANT SHALL BE RESPONSIBLE

C. FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON(S) SHALL EXCAVATE ON LAND THAT IS SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK, ALLEY, STRUCTURE OR OTHER PUBLIC OR PRIVATE PROPERTY OR EASEMENT WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM ANY DAMAGE WHICH MIGHT OTHERWISE RESULT.

D. ADVANCE NOTICE. THE APPLICANT SHALL NOTIFY THE COUNTY AT LEAST FORTY–EIGHT HOURS PRIOR TO THE START OF WORK.

E. EROSION AND SEDIMENT CONTROL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT TO PREVENT DISCHARGE OF SEDIMENT FROM THE SITE, IN QUANTITIES GREATER THAN BEFORE THE GRADING OCCURRED, TO ANY WATERCOURSE, DRAINAGE SYSTEM, OR ADJACENT PROPERTY.

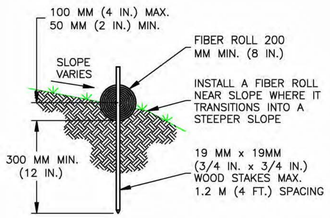
F. COMPLIANCE WITH STORMWATER RUNOFF POLLUTION CONTROL CODE. AT ALL TIMES DURING THE PRECONSTRUCTION AND CONSTRUCTION OF ANY PROJECT FOR WHICH GRADING APPROVAL IS ISSUED UNTIL ALL FINAL IMPROVEMENTS AND PERMANENT STRUCTURES ARE COMPLETE, THE APPLICANT SHALL FULLY COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STORMWATER RUNOFF POLLUTION CONTROL CODE.

BMP INSTALLATION SCHEDULE

BEST MANAGEMENT PRACTICE	LOCATION	IMPLEMENTATION SCHEDULE	MAINTENANCE SCHEDULE
A. PRESERVING EXISTING VEGETATION	AROUND PERIMETER OF PROJECT SITE	CONTINUOUS, UNTIL CONSTRUCTION IS COMPLETED	EDUCATE EMPLOYEES AND SUBCONTRACTORS REGARDING IMPORTANCE AT MAINTAINING EXISTING VEGETATION TO PREVENT EROSION AND FILER AND SEDIMENT IN RUNOFF FROM DISTURBED AREAS ON THE CONSTRUCTION SITE. INSPECT SITE PERIMETER MONTHLY TO VERIFY THE OUTSIDE VEGETATION IS NOT DISTURBED.
B. PROTECT GRADED AREAS AND SLOPES FROM WASHOUT & EROSION	THROUGHOUT PROJECT SITE	DURING WET SEASON	INSPECT GRADED AREAS AND SLOPES ON AT LEAST A MONTHLY BASIS TO CHECK FOR EROSION. REGRADE TRIBUTARY AREAS OR INSTALL FILTER BARRIER OR SAND BAG DIKES AS NECESSARY TO PREVENT EROSION.
C. GRAVEL FILTER	ALONG FLOW LINES OF UNPAVED ROADWAYS WITHIN SITE	IN PLACE DURING WET SEASON UNTIL ROADWAYS ARE PAVED	INSPECT DAILY AND AFTER EACH STORM. REMOVE ONSITE SEDIMENT DEPOSITED BEHIND BERM OR BARRIER TO MAINTAIN EFFECTIVENESS.
D. INLET FILTER BAG	INLETS TO THE STORM DRAINAGE SYSTEM	CONTINUOUS UNTIL LANDSCAPING IS IN PLACE	INSPECT WEEKLY AND AFTER EACH STORM. REMOVE SEDIMENT AND DEBRIS BEFORE ACCUMULATIONS HAVE REACHED ONE THIRD THE DEPTH OF THE BAG. REPAIR OR REPLACE INLET FILTER BAG AS SOON AS DAMAGE OCCURS.
E. FIBER ROLL	SEE PLAN SHEET C–4	CONTINUOUS	INSPECT WEEKLY AND AFTER EACH STORM. REMOVE SEDIMENT DEPOSITED BEHIND FIBER ROLL WHENEVER NECESSARY TO MAINTAIN EFFECTIVENESS.
F. HYDROSEEDING	3:1 SLOPES	IN PLACE DURING BY SEPT. 15	INSPECT SLOPES ON AT LEAST A MONTHLY BASIS TO CHECK FOR EROSION. IF EROSION IS NOTED, SPREAD STRAW MULCH OVER AFFECTED AREAS.
G. STABILIZED CONSTRUCTION ENTRANCE	ENTRANCES TO SITE FROM PUBLIC ROADWAYS	CONTINUOUS, UNTIL ENTRANCES AND ONSITE ROADWAYS ARE PAVED	INSPECT ON A MONTHLY BASIS AND AFTER EACH RAINFALL ADD AGGREGATE BASE MATERIAL WHENEVER NECESSARY TO PREVENT SEDIMENT FROM BEING TRACKED INTO PUBLIC STREET.
H. WIND EROSION CONTROL PRACTICES	WHEREVER NECESSARY THROUGHOUT PROJECT SITE	CONTINUOUS UNTIL GRADING IS COMPLETED AND SOILS HAVE STABILIZED	INSPECT SITE DURING WINDY CONDITIONS TO IDENTIFY AREAS WHERE WIND EROSION IS OCCURRING AND ABATE EROSION AS NECESSARY
I. GOOD HOUSEKEEPING MEASURES	THROUGHOUT PROJECT SITE	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A MONTHLY BASIS TO VERIFY THAT GOOD HOUSEKEEPING PRACTICES ARE BEING IMPLEMENTED.
J. PROPER CONSTRUCTION MATERIAL STORAGE	DESIGNATED AREA	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A WEEKLY BASIS TO VERIFY THAT CONSTRUCTION MATERIALS ARE STORED IN A MANNER, WHICH COULD NOT CAUSE STORM WATER POLLUTION.
K. PROPER CONSTRUCTION WASTE STORAGE AND DISPOSAL INCLUDING 1) CONCRETE SPILL CLEANUP INCLUDING 1) PAINT & PAINTING SUPPLIES 2) VEHICLE FUELING MAINTENANCE & CLEANING	DESIGNATED COLLECTION AREA AND CONTAINERS . MATERIAL HANDLING AREA . DESIGNATED AREA WITH SECONDARY CONTAINMENT	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED . IMMEDIATELY AT TIME OF SPILL . CONTINUOUS	INSPECT SITE ON AT LEAST A WEEKLY BASIS TO ASSURE WASTE IS STORED PROPERLY AND DISPOSED OF AT LEGAL DISPOSAL SITE, DAILY. . INSPECT MATERIAL HANDING AREAS ON AT LEAST A MONTHLY BASIS TO VERIFY PROPER SPILL CLEANUP. . KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ON SITE & INSPECT ON REGULAR SCHEDULE.
L. STREET AND STORM DRAINAGE FACILITY MAINTENANCE DEFINITIONS	STREETS AND STORM DRAINAGE FACILITIES	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	MAINTAIN STORM DRAINAGE FACILITIES AND PAVED STREETS CLEAR OF SEDIMENT AND DEBRIS.

1. WET SEASON: ENTIRE PERIOD BETWEEN OCTOBER 1 THROUGH APRIL 30. CONTRACTOR SHALL ALSO IMPLEMENT WET SEASON MEASURES IF WET WEATHER IS EXPECTED DURING THE DRY SEASON.
2. PHASES OF GRADING
   . INITIAL (STAGE 1): WHEN CLEARING AND GRUBBING ACTIVITIES OCCUR.
   . ROUGH (STAGE 2): WHEN CUT AND FILL ACTIVITIES OCCUR AND THE SITE IMPROVEMENTS ARE CONSTRUCTED, INCLUDING UNDERGROUND PIPING, STREETS, SIDEWALKS, AND OTHER IMPROVEMENTS.
   . FINAL (STAGE 3): WHEN FINAL ELEVATIONS ARE SET, AND SITE IMPROVEMENTS ARE COMPLETED AND READY FOR COUNTY ACCEPTANCE.

ER–1 PORTABLE CONCRETE WASHOUT CONTAINER
NO SCALE



TYPICAL FIBER ROLL INSTALLATION

ER–2 FIBER ROLLS
NO SCALE

INSPECTION & MAINTENANCE OF FIBER ROLLS:

1. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING OR SLUMPING FIBER ROLLS.
2. INSPECT FIBER ROLLS WHEN RAIN IS FORECAST, FOLLOWING RAIN EVENTS, AT LEAST DAILEY DURING PROLONGED RAINFALL, AND AT TWO–WEEK INTERVALS DURING THE NON–RAINY SEASON.
3. 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.

NOTES:

1. FILTER BARRIER SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH AND AS APPROVED BY THE LANDSCAPE INSPECTOR.
2. FILTER ROLL (8"TO 12" DIAMETER) SHALL BE PLACED INTO THE KEY TRENCH AND STAKES ON BOTH SIDES OF THE ROLL WITHIN b FEET OF EACH END AND THEN EVERY 3' TO 4' WITH 1" X 2"X 23" STAKES. STAKES ARE TYPICALLY DRIVEN IN ON ALTERNATING BIDES OF THE ROLL. ADJACENT ROLLS. SHALL TIGHTLY ABUT.
3. CLEAR SUBGRADE SO THAT REMOVAL OF ALL LOCAL DEVIATIONS AND TO REMOVE LARGE STONES OR DEBRIS THAT WILL INHIBIT INTIMATE CONTACT OF THE FIBER ROLL WITH THE SUBGRADE.
4. PRIOR TO ROLL INSTALLATION, CONTOUR A CONCAVE TRENCH (2 TO 4 INCHES) DEEP ALONG THE PROPOSED INSTALLATION ROUTEFIBER ROLL SHALL BE INSTALLED ALONG THE SIDE OF WALKS AND AROUND THE CATCH BASINS. THE BOTTOM EDGE 'OF THE FABER ROLL SHALL EXTEND TO AND ACROSS THE BOTTOM OF THE TRENCH. THE TRENCH SHALL BE BACKFILLED TO 4 INCHES ABOVE GROUND AND COMPACTED TO BURY AND SECURE THE BOTTOM OF THE FIBER ROLL.
5. CONTRACTER SHALL MAKE INSPECTIONS WEEKLY DURING THE WET SEASON, MONTHLY DURING THE DRY SEASON AND IMMEDIATELY AFTER EACH RAINFALL TO DETERMINE IF REPAIRS AND SEDIMENT REMOVAL IS Required. SEDIMENT SHALL BE REMOVED BEFORE IT HAS REACHED ONE THIRD THE HEIGHT OF THE FILTER FABRIC.

EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE COUNTY IMPROVEMENT STANDARDS, CURRENT EDITION, AND THE COUNTY EROSION AND SEDIMENT CONTROL GUIDELINES.
2. EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE INSTALLED AND MAINTAINED DURING THE WET SEASON (OCTOBER THROUGH APRIL 30). SEDIMENT CONTROL BMPs SHALL BE INSTALLED AND MAINTAINED ALL YEAR.
3. ALL DRAINAGE INLETS IMMEDIATELY DOWNSTREAM OF THE WORK AREAS AND WITHIN THE WORK AREAS SHALL BE PROTECTED WITH SEDIMENT CONTROL AND INLET FILTER BAGS, YEAR ROUND. INLET FILTER BAGS SHALL BE REMOVED FROM THE DRAINAGE INLETS UPON ACCEPTANCE OF THE PUBLIC IMPROVEMENTS BY THE COUNTY.
4. ALL AREAS DISTURBED DURING CONSTRUCTION, BY GRADING, TRENCHING, OR OTHER ACTIVITIES, SHALL BE PROTECTED FROM EROSION DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). HYDROSEED, IF UTILIZED, MUST BE PLACED BY SEPTEMBER 15. HYDROSEED PLACED DURING THE WET SEASON SHALL USE A SECONDARY EROSION PROTECTION METHOD.
5. SENSITIVE AREAS AND AREAS WHERE EXISTING VEGETATION IS BEING PRESERVED SHALL BE PROTECTED WITH CONSTRUCTION FENCING. SEDIMENT CONTROL BMPs SHALL BE INSTALLED WHERE ACTIVE CONSTRUCTION AREAS DRAIN INTO SENSITIVE OR PRESERVED VEGETATION AREAS.
6. SEDIMENT CONTROL BMPs SHALL BE PLACED ALONG THE PROJECT PERIMETER WHERE DRAINAGE LEAVES THE PROJECT. SEDIMENT CONTROL BMPs SHALL BE MAINTAINED YEAR ROUND UNTIL THE CONSTRUCTION IS COMPLETE OR THE DRAINAGE PATTERN HAS BEEN CHANGED AND NO LONGER LEAVES THE SITE.
7. THE FOLLOWING AREAS ARE TO RECEIVE HYDROSEEDING OR OTHER EROSION CONTROL: ALL SLOPES GREATER THAN 10:1.
8. FOR DEWATERING OPERATIONS, SEDIMENT– LADEN STORM WATER SHALL BE EITHER PUMPED (NOTE 10) OR ROUTED (TEMPORARY DIVERSION SWALE) TO SEDIMENT TRAP(S) TO ALLOW SEDIMENT TO SETTLE OUT BEFORE DISCHARGE OFF–SITE. ONCE SEDIMENT HAS SETTLED OUT, WATER WILL BE DISCHARGED THROUGH SWALE LINED WITH IMPERVIOUS PLASTIC LINER.
9. USE OF FIBER ROLLS SHALL BE AUGMENTED DURING WET SEASON WITH DEWATERING BMP's IN THE EVENT THAT FIBER ROLLS DO NOT EFFECTIVELY RETAIN STORM WATER ON SITE. DEWATERING MAY INCLUDE PUMPS OR BERMS TO ROUTE WATER TO THE SEDIMENT TRAP. IF PUMPS ARE USED, THEN FILTER BAGS SHALL BE USED AT DISCHARGE HOSE ENDS. DEWATERING MATERIAL SHALL NOT BE DISCHARGED DIRECTLY TO THE STORM DRAIN SYSTEM.

REQUIRED BMPS

THE FOLLOWING BMPS SHALL BE REQUIRED ON ALL PROJECTS:

A. ACCESS POINTS TO THE CONSTRUCTION SITE SHALL HAVE A STABILIZED CONSTRUCTION ACCESS.

B. THE PRESERVATION OF EXISTING VEGETATION SHALL BE DONE IN ACCORDANCE WITH PRESERVATION OF EXISTING VEGETATION, AND SILT FENCE.

C. PERIMETER PROTECTION ALONG PROPERTY LINES SHALL HAVE PRESERVATION OF EXISTING VEGETATION, OR SILT FENCE.

D. SLOPES GREATER THAN 3 PERCENT SHALL BE TEMPORARILY SEEDED AND SLOPES GREATER 3:1 (H:V) SHALL HAVE HYDROSEEDING AND/OR GEOTEXTILES, PLASTIC COVERS, AND/OR EROSION CONTROL BLANKETS INSTALLED.

E. THE TOE OF ALL SLOPES SHALL HAVE SILT FENCE AND/OR FIBER ROLL.

F. DISTURBED SOIL AREAS BEHIND THE CURB OR BACK OF WALK (OR CURB) SHALL HAVE STRAW MULCH, SOIL BINDERS OR GEOTEXTILES, PLASTIC COVERS, AND EROSION CONTROL BLANKETS/MATS IN CONJUNCTION WITH HYDROSEEDING. SURFACE TREATMENTS SHALL EXTEND TO THE GREATER OF 6 METERS (20 FEET) OR TO THE TOP OF SLOPE.

G. ROADWAY SUBGRADES SHALL HAVE FIBER ROLL, SILT FENCE, OR SEDIMENT TRAP.

H. DEAD END STREETS, TO BE EXTENDED IN THE FUTURE, SHALL HAVE PRESERVATION OF EXISTING VEGETATION, HYDROSEEDING, SEDIMENT TRAP OR OTHER APPLICABLE BMP TO MINIMIZE THE TRANSPORT OF SEDIMENT ONTO OR FROM THE IMPROVED SURFACE.

I. PROJECTS THAT INCLUDE DETENTION BASINS SHALL HAVE A SEDIMENT BASIN.

J. PLACE DRAINAGE INLET SEDIMENT BMPS AT ALL STORM DRAIN INLETS. BMPS SHALL INCLUDE INLET SEDIMENT CONTROL BARRIER, INLET FILTER BAG AND CONCRETE STAMPS OR EXPOXIED PLAQUARDS.

K. EACH CONSTRUCTION SITE SHALL PROVIDE DESIGNATED, PAINT AND WASTE DISPOSAL LOCATIONS AS NECESSARY.

L. A BMP INSTALLATION SCHEDULE SHALL BE INCLUDED ON THE IMPROVEMENT PLANS. THE SCHEDULE SHALL INCLUDE THE BMPS FOR BOTH THE WET SEASON AND THE DRY SEASON.

REVEGETATION STANDARDS

1. PERMANENT REVEGETATION OR LANDSCAPING, IF REQUIRED, IS TO BE COMMENCED ON THE CONSTRUCTION SITE AS SOON AS PRACTICAL AND IN NO CASE EXCEEDING TWELVE MONTHS AFTER ACHIEVING FINAL GRADES AND UTILITY PLACEMENTS. WHENEVER PRACTICAL, LAND IS TO BE DEVELOPED IN INCREMENTS OF WORKABLE SIZE WHICH CAN BE COMPLETED DURING A SINGLE CONSTRUCTION SEASON; EROSION CONTROL MEASURES ARE TO BE COORDINATED WITH THE SEQUENCE OF GRADING OR IMPROVEMENTS.
2. ALL SURFACES DISTURBED BY VEGETATION REMOVAL, GRADING, HAUL ROADS, OR OTHER ACTIVITY OF CONSTRUCTION WHICH ALTERS THE NATURAL VEGETATIVE COVER ARE TO BE PREPARED FOR EXPEDIENT REVEGETATION OR OTHERWISE MAINTAINED TO CONTROL EROSION UNLESS COVERED WITH IMPERVIOUS OR OTHER IMPROVED SURFACES PURSUANT TO APPROVED PLANS WITHIN FOURTEEN DAYS FOLLOWING THE COMPLETION OF GRADING, OR REMOVAL OF VEGETATION IF NO GRADING WAS INVOLVED.
3. TOPSOIL REMOVED FROM THE SURFACE IN PREPARATION FOR GRADING SHALL BE RESTORED TO EXPOSE CUT AND FILL EMBANKMENTS OR BUILDING PADS SO AS TO PROVIDE A SUITABLE BASE FOR SEEDING AND PLANTING.
4. ACCEPTABLE METHODS OF REVEGETATION INCLUDE STRAW–MULCHING, HYDRO–MULCHING OR PLANTING OF MIXTURE SPECIFIED IN THE IMPROVEMENT STANDARDS. OTHER METHODS OF REVEGETATION MAY BE APPROVED BY THE COUNTY ENGINEER WHERE EQUIVALENT PROTECTION IS PROVIDED.
5. ALL REVEGETATION AND LANDSCAPING ARE TO BE CONDUCTED WITHIN SUITABLE GROWING PERIODS. NATIVE PLANT MATERIALS ARE SPECIFICALLY ENCOURAGED IN ORDER TO REDUCE IRRIGATION DEMANDS.
6. TEMPORARY SEDIMENTATION CONTROL FACILITIES ARE TO BE INSTALLED IN CONJUNCTION WITH INITIAL GRADING OPERATIONS AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD TO REMOVE SEDIMENTS FROM RUNOFF WATERS DURING DEVELOPMENT.
7. PERMANENT SEDIMENT CATCHMENT BASINS OR OTHER TYPES OF SEDIMENT RETENTION FACILITIES ARE REQUIRED WHEREVER NECESSARY TO PREVENT DISCHARGE OF SEDIMENT INTO WATERS OF THE STATE. SEDIMENT RETENTION FACILITIES SHALL BE INSPECTED AND CLEANED ACCORDING TO A REGULAR MAINTENANCE SCHEDULE.
8. THE PLANTING OR SEEDING OF VEGETATIVE PROTECTION MUST BE EFFECTIVE. IF THE VEGETATION DOES NOT GROW AND OFFER PROPER PROTECTION, IT MUST BE REPLANTED OR RESEEDED.
9. THE MAINTENANCE OF VEGETATIVE PROTECTION ON GRADED SLOPES SHALL BE THE RESPONSIBILITY OF THE PERMITTEE AND SHALL BE GUARANTEED UNTIL THE VEGETATION IS WELL ESTABLISHED OR IS OFFICIALLY ASSUMED BY ANOTHER PARTY.

DUST MITIGATION PLAN

SECTION 1: FUGITIVE DUST PREVENTION AND CONTROL

LAND CLEARING/EARTH MOVING:
WATER SHALL BE APPLIED BY MEANS OF TRUCK(S), HOSES AND/OR SPRINKLERS PRIOR TO ANY LAND CLEARING OR EARTH MOVEMENT TO MINIMIZE DUST EMISSIONS. HAUL VEHICLES TRANSPORTING SOIL INTO OR OUT OF THE PROPERTY SHALL BE COVERED.

VISIBLY DRY DISTURBED SOIL SURFACE AREAS:
ALL VISIBLY DRY DISTURBED SOIL SURFACE AREAS OF OPERATION SHALL BE WATERED TO MINIMIZE DUST EMISSIONS.

PAVED ROAD TRACK–OUT:
PAVED ROADS SHALL BE CLEANED IF THE AMOUNT OF DIRT TRACKED–OUT OF THE OPERATION AREA HAS THE POTENTIAL TO CAUSE DUST EMISSIONS.

VISIBLY DRY DISTURBED UNPAVED DRIVEWAYS:
ALL VISIBLY DRY DISTURBED UNPAVED DRIVEWAY SURFACE AREAS OF OPERATION SHALL BE WATERED TO MINIMIZE DUST EMISSIONS. UNPAVED DRIVEWAYS MAY BE GRAVELED TO REDUCE DUST EMISSIONS.

VEHICLES ENTERING / EXITING CONSTRUCTION AREA:
VEHICLES ENTERING OR EXITING CONSTRUCTION AREA SHALL TRAVEL AT A SPEED WHICH MINIMIZES DUST EMISSIONS.

EMPLOYEE VEHICLES:
CONSTRUCTION WORKERS PARK IN DESIGNATED PARKING AREA(S) TO HELP REDUCE DUST EMISSIONS.

SOIL PILES:
SOIL PILE SURFACES SHALL BE MOISTENED IF DUST IS BEING EMITTED FROM THE PILE(S). ADEQUATELY SECURED TARPS, PLASTIC OR OTHER MATERIAL MAY BE REQUIRED TO FURTHER REDUCE DUST EMISSIONS.

CLIENT:

at&t

2600 CAMINO RAMON
SAN RAMON, CA 94583

PROJECT INFORMATION:

LATROBE
7160 DRAGON POINT RD
SHINGLE SPRINGS, CA 95682

REV:	DATE:	DESCRIPTION:	BY:
1	4–27–17	90% ZONING DOC'S	RB
2	5–10–17	REV 90% ZONING DOC'S	RB
3	5–24–17	REV 90% ZONING DOC'S	RB
4	6–13–17	REV 90% ZONING DOC'S	RB
5	8–2–17	REV 90% ZONING DOC'S	RB
6	8–21–17	100% ZONING DOC'S	RB

COORDINATING ENGINEER:

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SEAL:

REGISTERED PROFESSIONAL ENGINEER
CHRIS OLIVEIRA
NO. C 33407
EXP. 06/30/18
CIVIL
STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

SHEET TITLE:

EROSION CONTROL NOTES

SHEET NUMBER:	REVISION:
C-4	0

GRADING STANDARDS

1. GENERAL. UNLESS OTHERWISE RECOMMENDED IN THE APPROVED SOILS ENGINEERING OR ENGINEERING GEOLOGY REPORT, GRADING ACTIVITIES SHALL CONFORM TO THE PROVISIONS OF THIS SECTION.

A. CUT SLOPE. THE SLOPE OF CUT SURFACES SHALL BE NO STEEPER THAN IS SAFE FOR THE INTENDED USE AND SHALL BE NO STEEPER THAN 1 UNIT VERTICAL IN 2 UNITS HORIZONTAL (50% SLOPE) UNLESS THE PERMITTEE FURNISHES A SOILS ENGINEERING OR AN ENGINEERING GEOLOGY REPORT, OR BOTH, STATING THAT THE SITE HAS BEEN INVESTIGATED AND GIVING AN OPINION THAT A CUT AT A STEEPER SLOPE WILL BE STABLE AND NOT CREATE A HAZARD TO PROPERTY OR THE ENVIRONMENT.

B. FILL SLOPE AND PREPARATION

(1) PREPARATION OF GROUND. THE GROUND SURFACE SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION, NON-COMPLYING FILL, TOPSOIL AND OTHER UNSUITABLE MATERIALS SCARIFYING TO PROVIDE A BOND WITH THE NEW FILL.

(2) FILL MATERIAL. AMOUNT OF ORGANIC MATERIAL DETRIMENTAL TO STRUCTURAL INTEGRITY SHALL NOT BE PERMITTED IN FILLS. EXCEPT AS PERMITTED BY THE BUILDING OFFICIAL, NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 12 INCHES (0.31 M) SHALL BE BURIED OR PLACED IN FILLS.

(3) EXCEPTION. THE BUILDING OFFICIAL MAY PERMIT PLACEMENT OF LARGER ROCK WHEN THE SOILS ENGINEER PROPERLY DEVISES A METHOD OF PLACEMENT, AND CONTINUOUSLY INSPECTS ITS PLACEMENT AND APPROVES THE FILL STABILITY. THE FOLLOWING CONDITIONS SHALL ALSO APPLY:

(a) PRIOR TO ISSUANCE OF THE GRADING PERMIT, POTENTIAL ROCK DISPOSAL AREAS SHALL BE SHOWN ON THE GRADING PLAN.

(b) ROCK SIZES GREATER THAN 12 INCHES (0.31 M) IN MAXIMUM DIMENSION SHALL BE 10 FEET (3.05 M) OR MORE BELOW GRADE, MEASURED VERTICALLY.

(c) ROCKS SHALL BE PLACED SO AS TO ASSURE FILLING OF ALL VOIDS WITH WELL-GRADED SOIL.

(4) COMPACTION. ALL FILLS SHALL BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY WITH SUFFICIENT TESTING FOR DOCUMENTATION OF COMPLIANCE WITH THIS STANDARD.

(5) SLOPE. THE SLOPE OF FILL SURFACES SHALL BE NO STEEPER THAN IS SAFE FOR THE INTENDED USE. FILL SLOPES SHALL BE NO STEEPER THAN 1 UNIT VERTICAL IN 2 UNITS HORIZONTAL (50% SLOPE).

2. SETBACKS

a. GENERAL. CUT AND FILL SLOPES SHALL BE SET BACK FROM SITE BOUNDARIES IN

b. ACCORDANCE WITH THIS SECTION. SETBACK DIMENSIONS SHALL BE HORIZONTAL DISTANCES MEASURED PERPENDICULAR TO THE SITE BOUNDARY.

c. TOP OF CUT SLOPE. THE TOP OF CUT SLOPES SHALL NOT BE MADE NEARER TO A SITE BOUNDARY LINE THAN A MINIMUM OF 2 FEET. THE SETBACK MAY NEED TO BE INCREASED FOR ANY REQUIRED INTERCEPTOR DRAINS.

d. TOE OF FILL SLOPE. THE TOE OF FILL SLOPE SHALL BE MADE NOT NEARER TO THE SITE BOUNDARY LINE THAN MINIMUM OF 2 FEET. WHERE A FILL SLOPE IS TO BE LOCATED NEAR THE SITE BOUNDARY AND THE ADJACENT OFFSITE PROPERTY IS DEVELOPED, SPECIAL PRECAUTIONS SHALL BE INCORPORATED IN THE WORK AS THE BUILDING OFFICIAL DEEMS NECESSARY TO PROTECT THE ADJOINING PROPERTY FROM DAMAGE AS A RESULT OF SUCH GRADING. THESE PRECAUTIONS MAY INCLUDE BUT ARE NOT LIMITED TO:

(1) ADDITIONAL SETBACKS.

(2) PROVISION FOR RETAINING, OR SLOUGH WALLS.

(3) MECHANICAL OR CHEMICAL TREATMENT OF THE FILL SLOPE SURFACE TO MINIMIZE EROSION.

(4) PROVISIONS FOR THE CONTROL OF SURFACE WATERS.

e. MODIFICATION OF SETBACKS. THE BUILDING OFFICIAL MAY APPROVE ALTERNATE SETBACKS.THE BUILDING OFFICIAL MAY REQUIRE AN INVESTIGATION AND RECOMMENDATION BY A QUALIFIED ENGINEER OR ENGINEERING GEOLOGIST TO DEMONSTRATE THAT THE INTENT OF THIS SECTION HAS BEEN SATISFIED.

3. MAINTENANCE REQUIRED. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ADEQUATELY MAINTAINING ALL DRAINAGE FACILITIES INSTALLED PURSUANT TO THIS SECTION.

4. GRADING INSPECTION

A. GENERAL. GRADING OPERATIONS FOR WHICH A PERMIT IS REQUIRED SHALL BE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL.

B. PERMITTEE. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE WORK TO BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND IN CONFORMANCE WITH THE PROVISIONS OF THIS CODE, AND THE PERMITTEE SHALL ENGAGE CONSULTANTS, IF REQUIRED, TO PROVIDE PROFESSIONAL INSPECTIONS ON A TIMELY BASIS. THE PERMITTEE SHALL ACT AS A COORDINATOR BETWEEN THE CONSULTANTS, THE CONTRACTOR AND THE BUILDING OFFICIAL. IN THE EVENT OF CHANGED CONDITIONS, THE PERMITTEE SHALL BE RESPONSIBLE FOR INFORMING THE BUILDING OFFICIAL OF SUCH CHANGE AND SHALL PROVIDE REVISED PLANS FOR APPROVAL.

C. BUILDING OFFICIAL. THE BUILDING OFFICIAL SHALL INSPECT THE PROJECT AT THE VARIOUS STAGES OF WORK REQUIRING APPROVAL TO DETERMINE THAT ADEQUATE CONTROL IS BEING EXERCISED BY THE PROFESSIONAL CONSULTANTS.

D. NOTIFICATION OF NONCOMPLIANCE. IF, IN THE COURSE OF FULFILLING THEIR RESPECTIVE DUTIES UNDER THIS CHAPTER, THE CIVIL ENGINEER, THE SOILS ENGINEER OR THE ENGINEERING GEOLOGIST FINDS THAT THE WORK IS NOT BEING DONE IN CONFORMANCE WITH THIS CHAPTER OR THE APPROVED GRADING PLANS, THE DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE PERMITTEE AND TO THE BUILDING OFFICIAL.

E. TRANSFER OF RESPONSIBILITY. IF THE CIVIL ENGINEER, THE SOILS ENGINEER. OR THE ENGINEERING GEOLOGIST OF RECORD IS CHANGED DURING GRADING, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS AGREED IN WRITING TO ACCEPT THEIR RESPONSIBILITY WITHIN THE AREA OF TECHNICAL COMPETENCE FOR APPROVAL UPON COMPLETION OF THE WORK. IT SHALL BE THE DUTY OF THE PERMITTEE TO NOTIFY THE BUILDING OFFICIAL IN WRITING OF SUCH CHANGE PRIOR TO THE RE-COMMENCEMENT OF SUCH GRADING.

5. EROSION AND SEDIMENTATION CONTROL

A. ADMINISTRATION

(1) THE EROSION AND SEDIMENT CONTROL PROVISIONS OF THIS SECTION SHALL BE APPLICABLE TO ALL FACILITIES AND ACTIVITIES UNDER THE SUPERVISION OF THE DIRECTOR OF THE DEPARTMENT OF PUBLIC WORKS.

(2) THE ADMINISTRATION OF THIS SECTION, AS IT AFFECTS COUNTY FACILITIES AND ACTIVITIES, IS THE RESPONSIBILITY OF THE DIRECTOR OF THE DEPARTMENT OF PUBLIC WORKS.

(3) THE ADMINISTRATION OF THIS SECTION AS IT AFFECTS OTHER BUILDING, GRADING, AND RELATED ACTIVITIES IS THE RESPONSIBILITY OF THE CHIEF BUILDING OFFICIAL.

(4) ANY SOILS OR GEOLOGIC REPORTS PREPARED FOR ANY PROJECT WHERE A GRADING PERMIT IS SUBMITTED AS A PART OF A TENTATIVE SUBDIVISION MAP APPLICATION, OR RELATED ENVIRONMENTAL DOCUMENT, SHALL BE PLACED IN THE RECORDS OF THE CHIEF BUILDING OFFICIAL.

B. EROSION AND SEDIMENTATION CONTROL. THESE MINIMUM EROSION AND SEDIMENTATION CONTROL STANDARDS SHALL APPLY TO ALL PROJECTS REQUIRING BUILDING, GRADING, AND DEVELOPMENT PERMITS, AND COUNTY OF MENDOCINO PUBLIC WORKS ACTIVITIES, TO PREVENT SEDIMENTATION OR DAMAGE TO ONSITE AND OFFSITE PROPERTY. THESE STANDARDS SHALL BE INCORPORATED INTO THE PROJECT DESIGN AND SHALL BE ADHERED TO DURING PROJECT CONSTRUCTION:

(1) GENERAL GUIDELINES

(a) MINIMIZE SOIL EXPOSURE DURING THE RAINY SEASON BY PROPER TIMING OF GRADING AND CONSTRUCTION.

(b) RETAIN TREES AND NATURAL VEGETATION TO STABILIZE HILLSIDES, RETAIN MOISTURE, REDUCE EROSION, MINIMIZE SILTATION AND NUTRIENT RUNOFF AND PRESERVE SCENIC QUALITIES.

(c) VEGETATE AND MULCH DENUDED AREAS TO PROTECT THEM FROM WINTER RAINS.

(d) DIVERT RUNOFF AWAY FROM STEEP, DENUDED SLOPES OR OTHER CRITICAL AREAS WITH BARRIERS, BERMS, DITCHES OR OTHER FACILITIES.

(e) LIMIT CONSTRUCTION, CLEARING OF VEGETATION AND DISTURBANCE OF THE SOIL TO AREAS OF PROVEN STABILITY. MITIGATE GEOLOGIC HAZARDS AND ADVERSE SOIL CONDITIONS WHEN THEY ARE ENCOUNTERED.

(f) REDUCE SEDIMENT TRANSPORT OFF THE SITE TO THE MAXIMUM EXTENT FEASIBLE THROUGH THE USE OF BEST MANAGEMENT PRACTICES (BMPS).

(g) PROPOSE A NEW OR MODIFIED EROSION AND SEDIMENT CONTROL TECHNIQUE IF THE TECHNIQUE IS PREFERRED AND MEETS THE INTENT OF THESE REGULATIONS. OBTAIN APPROVAL FROM THE COUNTY PRIOR TO IMPLEMENTATION.

(h) CONDUCT FREQUENT SITE INSPECTIONS TO ENSURE THAT CONTROL MEASURES ARE WORKING PROPERLY AND TO CORRECT PROBLEMS AS NEEDED.

(i) EMPLOY OTHER MEANS OF EROSION AND SEDIMENT CONTROL AS REQUIRED BY THE CHIEF BUILDING OFFICIAL OR DIRECTOR OF THE DEPARTMENT OF PUBLIC WORKS AS APPLICABLE.

(2) SEDIMENT CONTROL

(a) USE SEDIMENT BASINS, SILT TRAPS, OR SIMILAR MEASURE TO RETAIN SEDIMENT TRANSPORTED BY RUNOFF WATER ONSITE.

(b) COLLECT AND DIRECT SURFACE RUNOFF AT NON-EROSIVE VELOCITIES TO THE COMMON NATURAL WATERCOURSE OF THE DRAINAGE AREA.

(c) AVOID CONCENTRATING SURFACE WATER ANYWHERE EXCEPT SWALES OR WATERCOURSES.

(d) PREVENT MUD FROM BEING TRACKED ONTO THE PUBLIC ROADWAY BY TRAVELING OVER A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE OR WASHING OFF VEHICLE TIRES BEFORE ENTERING A PUBLIC OR PRIVATE DRIVEWAY.

(3) SLOPE CONSTRUCTION

(a) MINIMIZE LENGTH AND STEEPNESS OF SLOPES BY BENCHING, TERRACING OR CONSTRUCTING DIVERSION STRUCTURES.

(b) PRESERVE, MATCH, OR BLEND CUTS AND FILLS WITH THE NATURAL CONTOURS AND UNDULATIONS OF THE LAND.

(c) ROUND SHARP ANGLES AT THE TOP AND SIDES OF CUT AND FILL SLOPES.

(d) MAINTAIN CUT AND FILL SLOPES AT LESS THAN TWO-TO-ONE (2:1, RUN:RISE) SLOPE UNLESS A GEOLOGICAL AND ENGINEERING ANALYSIS INDICATES THAT STEEPER SLOPES ARE SAFE AND EROSION AND SEDIMENT CONTROL MEASURES CAN SUCCESSFULLY PREVENT EROSION.

(4) PROTECTION OF WATERCOURSES AND DRAINAGE INLETS

(a) PREPARE DRAINAGEWAYS TO HANDLE CONCENTRATED OR INCREASED RUNOFF FROM DISTURBED AREAS BY USING APPROPRIATE LINING MATERIALS OR ENERGY ABSORBING DEVICES TO REDUCE THE VELOCITY OF RUNOFF WATER.

(b) TRAP SEDIMENT-LADEN RUNOFF IN BASINS TO ALLOW SOIL PARTICLES TO SETTLE OUT BEFORE FLOWS ARE RELEASED TO RECEIVING WATERS, STORM DRAINS, STREETS OR ADJACENT PROPERTY. THIS STANDARD IS NOT MANDATORY FOR GRADING THE SITE IS FULLY WINTERIZED AND STABILIZED PRIOR TO AND WHEN CONDUCTED BETWEEN APRIL 15 AND OCTOBER 15 OCTOBER 15. REMOVE TRAPPED SEDIMENT TO A SUITABLE LOCATION ON-SITE OR AT A DISPOSAL SITE APPROVED BY THE COUNTY.

(c) DO NOT GRADE OR DRIVE EQUIPMENT IN A STREAMSIDE MANAGEMENT OR OTHER WET AREAS EXCEPT AS ALLOWED THROUGH THE COUNTY STREAMSIDE MANAGEMENT AREA ORDINANCE.

(d) DEPOSIT OR STORE EXCAVATED MATERIALS AWAY FROM WATERCOURSES.

(e) PROTECT ALL EXISTING OR NEWLY INSTALLED STORM DRAINAGE STRUCTURES FROM SEDIMENT CLOGGING.

(f) (F) USE STRAW BALES, FILTER FABRIC WRAPS AND DRAINAGE INLET PROTECTIONS IN A MANNER THAT DOES NOT CAUSE ADDITIONAL EROSION OR FLOODING OF A ROADWAY.

(5) DISPOSAL OF EXCAVATED MATERIALS

(a) STOCKPILE TOPSOIL ON THE SITE FOR USE ON AREAS TO BE REVEGETATED.

(b) PLACE STOCKPILED SOIL IN LOCATIONS, SO THAT IF EROSION OCCURS, IT WILL NOT CONTRIBUTE TO OFFSITE SEDIMENT DISCHARGE.

(c) PROTECT STOCKPILED SOIL PROMPTLY THROUGH THE USE OF APPROPRIATE BMPS TO REDUCE THE RISK OF EROSION AND SEDIMENT TRANSPORT. APPLY MULCH OR OTHER PROTECTIVE COVERINGS ON STOCKPILED MATERIAL THAT WILL BE EXPOSED THROUGH THE WINTER SEASON.

(d) DISPOSE OF EXCAVATED MATERIAL NOT USED AT THE SITE AT A LOCATION APPROVED BY THE COUNTY.

(6) DUST CONTROL

(a) ALL CONSTRUCTION AREAS, INCLUDING DISPOSAL SITES, SHALL BE TREATED AND MAINTAINED AS NECESSARY TO MINIMIZE THE EMISSION OF DUST. MAINTENANCE SHALL BE CONDUCTED AS NECESSARY TO PREVENT A NUISANCE TO OFFSITE PROPERTIES.

(b) ALL CONSTRUCTION SITES, INCLUDING DRIVEWAYS, SHALL BE MAINTAINED AS NECESSARY TO MINIMIZE THE EMISSION OF DUST AND PREVENT THE CREATION OF A NUISANCE TO ADJACENT PROPERTIES.

(7) REVEGETATION

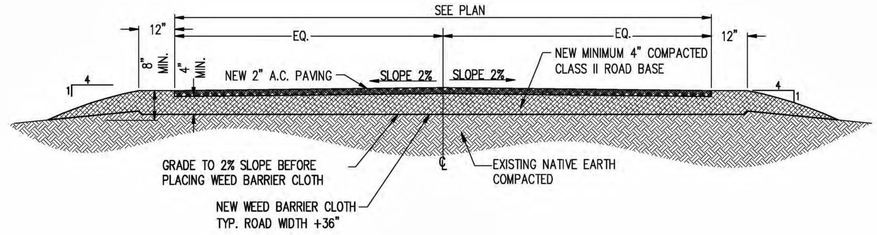
(a) APPLY TEMPORARY SEEDING AND MULCHING TO DENUDED AREAS PRIOR TO OCTOBER 15 UNLESS THE PROJECT IS CONDITIONED OTHERWISE.

(b) ESTABLISH A PERMANENT VEGETATIVE COVER ON DENUDED AREAS NOT OTHERWISE STABILIZED. PERMANENT VEGETATION GROUND COVER MUST CONTROL SOIL EROSION SATISFACTORILY AND SURVIVE SEVERE WEATHER CONDITIONS.

(c) RETAIN A VEGETATIVE BARRIER WHENEVER POSSIBLE AROUND PROPERTY BOUNDARIES.

(d) USE SELF-SUSTAINING, NON-INVASIVE PLANTS THAT REQUIRE LITTLE OR NO MAINTENANCE AND DO NOT CREATE AN EXTREME FIRE HAZARD.

(e) USE NATIVE PLANT SPECIES WHENEVER FEASIBLE.



TYP. A/C ROAD SECTION | SCALE: N.T.S. | 1

CLIENT:

at&t

2600 CAMINO RAMON
SAN RAMON, CA 94583

PROJECT INFORMATION:

LATROBE
7160 DRAGON POINT RD
SHINGLE SPRINGS, CA 95682

REV:	DATE:	DESCRIPTION:	BY:
1	4-27-17	90% ZONING DOC'S	RB
2	5-10-17	REV 90% ZONING DOC'S	RB
3	5-24-17	REV 90% ZONING DOC'S	RB
4	6-13-17	REV 90% ZONING DOC'S	RB
5	8-2-17	REV 90% ZONING DOC'S	RB
6	8-21-17	100% ZONING DOC'S	RB

COORDINATING ENGINEER:

Peek Site-Com
12852 Earhart Ave. Suite 101
Auburn, California 95602
Phone (530) 885-6160
E-Mail info@peeksitecom.com

SEAL:

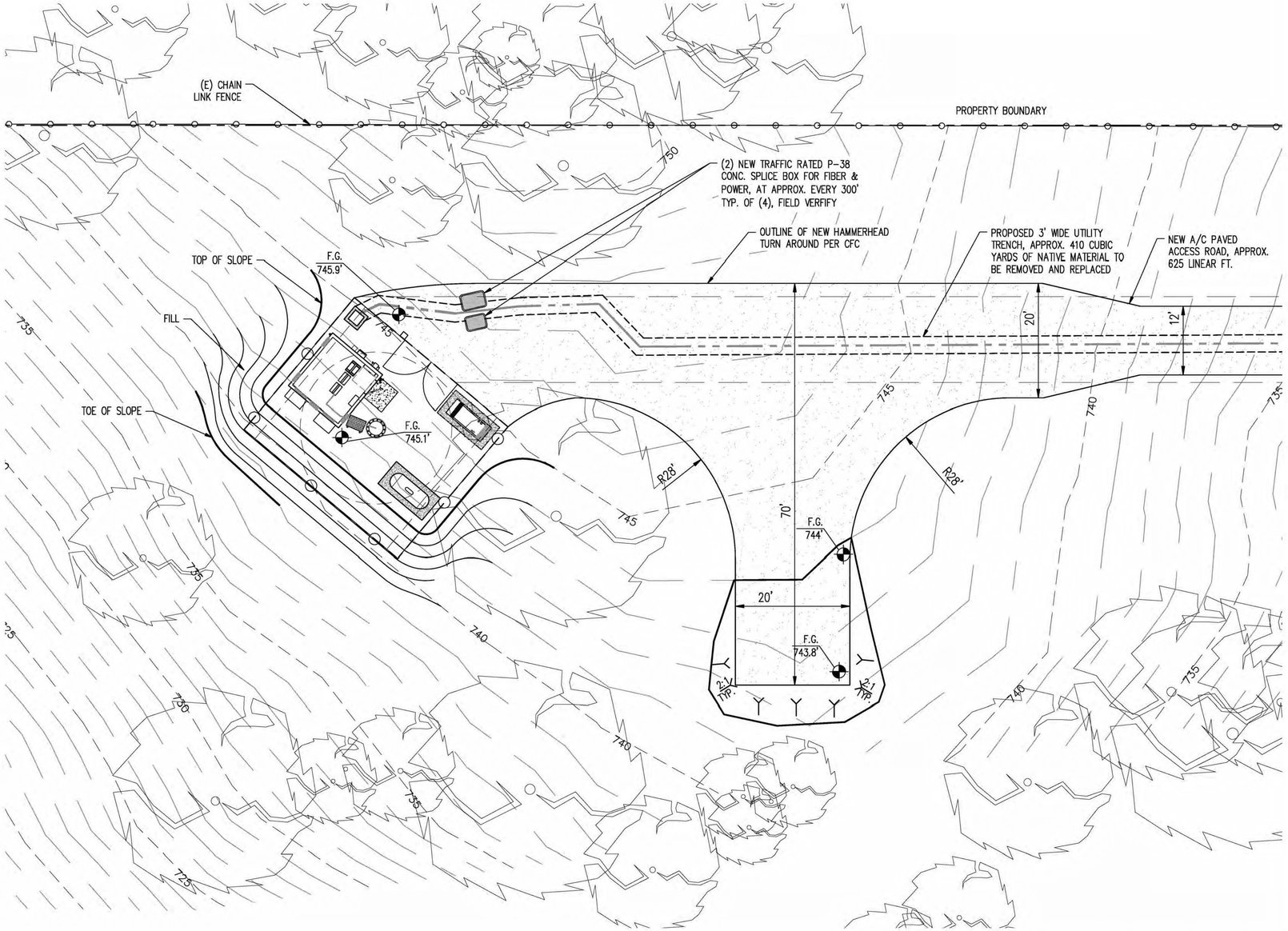
REGISTERED PROFESSIONAL ENGINEER CHRIS OLIVEIRA NO. C 33407 EXP. 06/30/18 CIVIL STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

SHEET TITLE:

GRADING NOTES & DETAILS

SHEET NUMBER:	REVISION:
C-5	0



PRELIMINARY GRADING PLAN

NORTH

0 5' 10' 20' 40'

SCALE: 1"=10'-0"

2

PROPRIETARY INFORMATION

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CLIENT:

at&t

2600 CAMINO RAMON
SAN RAMON, CA 94583

PROJECT INFORMATION:

LATROBE

7160 DRAGON POINT RD
SHINGLE SPRINGS, CA 95682

REV:	DATE:	DESCRIPTION:	BY:
1	4-27-17	90% ZONING DOC'S	RB
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3	5-24-17	REV 90% ZONING DOC'S	RB
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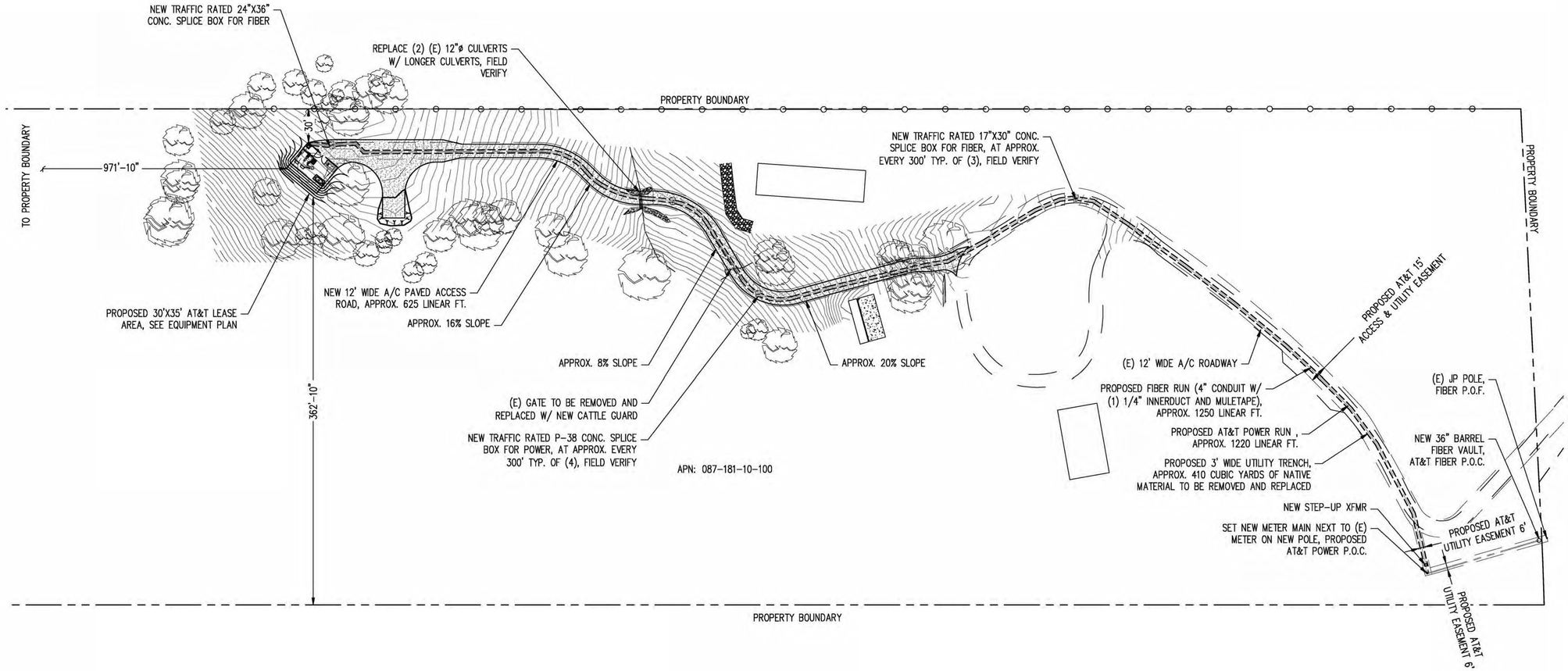
EXP. 06/30/18
CIVIL
STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

SHEET TITLE:

GRADING PLAN

SHEET NUMBER:	REVISION:
C-6	0



SITE PLAN

0 25' 50' 100' 200'

SCALE: 1"= 50'-0"

1

CLIENT:

at&t

2600 CAMINO RAMON
SAN RAMON, CA 94583

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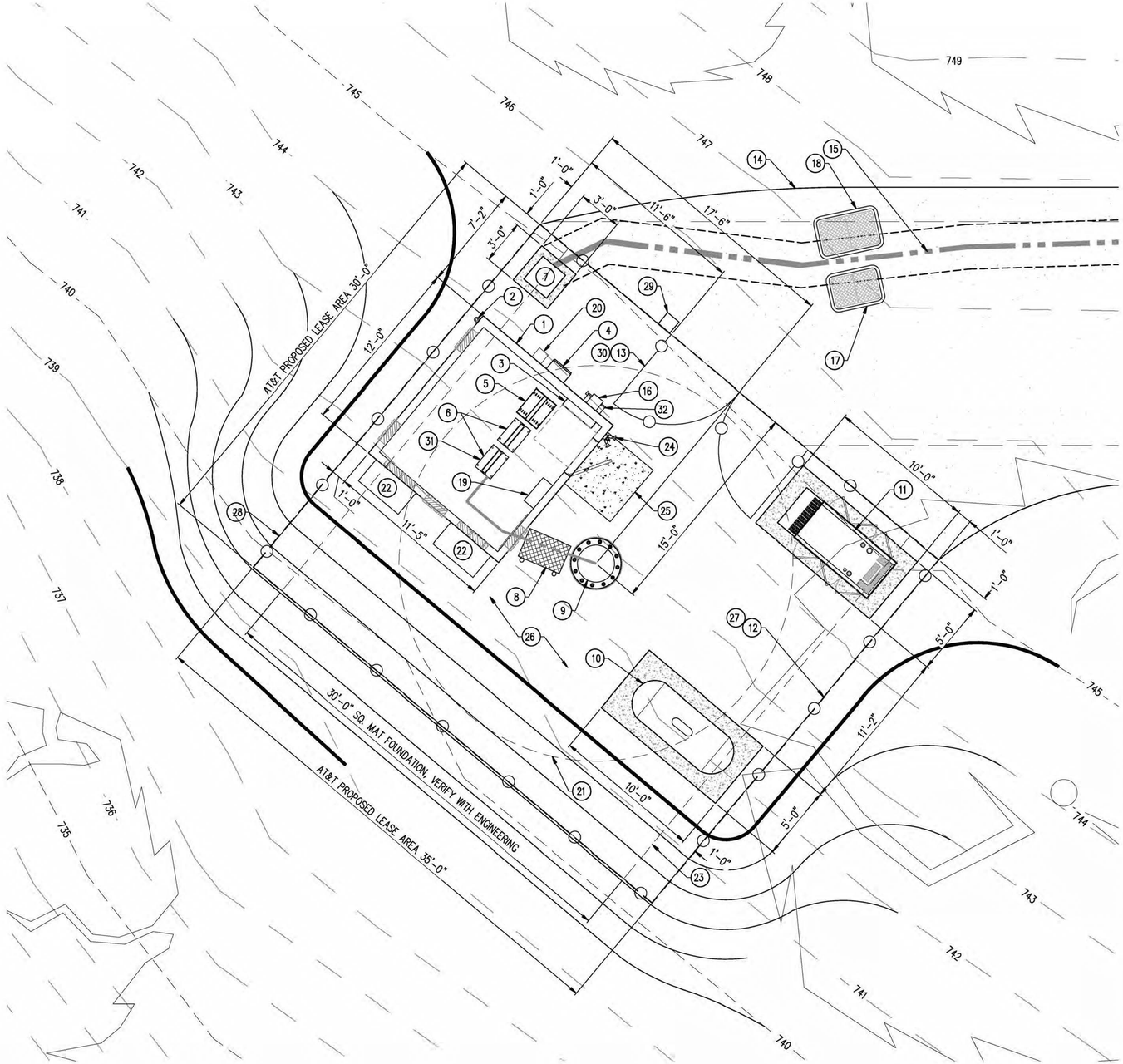
CIVIL
STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

SHEET TITLE:

SITE PLAN

SHEET NUMBER:	REVISION:
A-1	0



KEY NOTES

1. NEW PRE-FAB EQUIPMENT SHELTER
2. (1) NEW GPS ANTENNA
3. NEW ELEC. PANEL
4. TELCO BOX
5. NEW D/C POWER PLANT
6. NEW 23" FIF RACK, TYP. OF (2)
7. NEW STEP-DOWN XFMR
8. NEW ICE BRIDGE
9. NEW BROADLEAF TREE POLE
10. NEW 500 GAL LP PROPANE TANK ON NEW CONC. SLAB
11. NEW 35 KW BACK-UP GENERATOR ON NEW CONC. SLAB
12. NEW 6'-0" CHAIN LINK FENCE W/ VINYL SLATS
13. NEW 12' WIDE DOUBLE ACCESS GATE
14. NEW A/C PAVED ROAD
15. NEW U/G POWER AND TELCO CONDUITS
16. NEW CAMLOCK GENERATOR INTERFACE
17. NEW TRAFFIC RATED 24"X36" CONC. SPLICE BOX FOR FIBER
18. NEW TRAFFIC RATED P-38 CONC. SPLICE BOX FOR POWER
19. NEW AUTOMATIC TRANSFER SWITCH
20. NEW 2A:20BC RATED FIRE EXTINGUISHER IN WEATHER RESISTANT CABINET
21. 24' MAX BRANCH DIAMETER AT BASE OF POLE
22. NEW HVAC, PROVIDED WITH SHELTER
23. OUTLINE OF NEW TOWER MAT FOUNDATION
24. NEW OUTDOOR LIGHTS PROVIDED WITH SHELTER, W/ TIMER AND MOTION SENSOR
25. NEW CONC. STOOP
26. NEW MIN. 2" CLEAN CRUSHED ROCK OVER 4" CLASS II ROAD BASE OVER WEED BARRIER FABRIC
27. NEW SOUND BLANKET BBC-13X, 1.2 LBS. PSF MIN. OR EQUAL SOUND BLANKET AT INTERIOR SIDE OF FENCE
28. NEW AT&T 30'X35' LEASE AREA
29. NEW FIRE DEPT. KNOX BOX
30. NEW CARRIER CONTACT SIGNAGE AT GATE
31. NEW CIENA WITHIN FIF RACK
32. NEW 200A DISCONNECT

EQUIPMENT PLAN

0 2' 4' 8' 12'

SCALE: 1/4"=1'-0"

1

CLIENT:

at&t

2600 CAMINO RAMON
SAN RAMON, CA 94583

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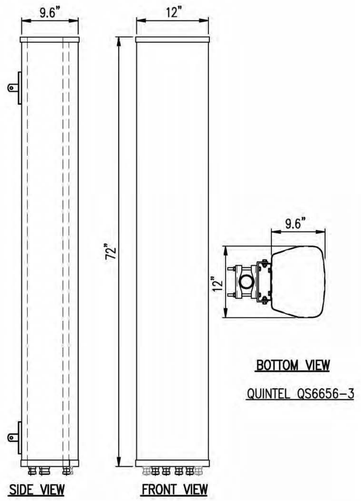
EXP. 06/30/18
CIVIL
STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

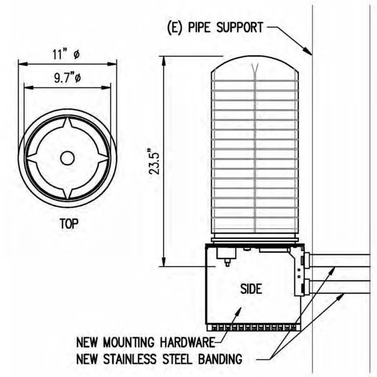
SHEET TITLE:

EQUIPMENT PLAN

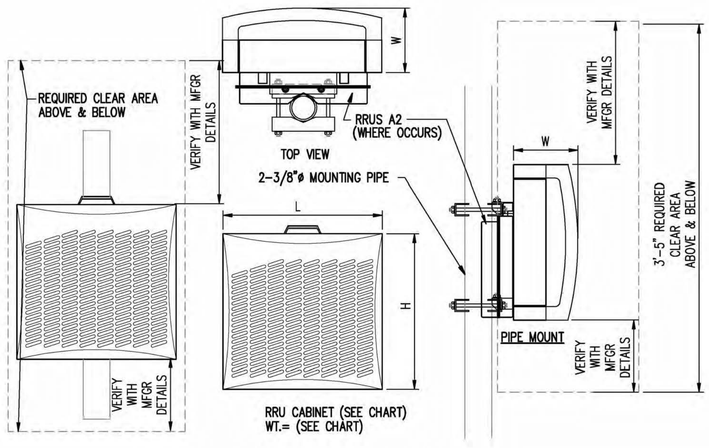
SHEET NUMBER:	REVISION:
A-2	0



ANTENNA DETAIL | SCALE: N.T.S. | 5



SURGE SUPP. DETAIL | SCALE: N.T.S. | 3



TYPE	LENGTH	HEIGHT	WIDTH	WEIGHT
RRU-11	17.8"	17.3"	7.19"	50 LBS
RRUS-E2	20.4"	18.5"	7.5"	50 LBS
RRUS-32	29.9"	13.3"	9.5"	60 LBS
RRU-12	20.4"	18.5"	7.5"	50 LBS
A2	12.8"	15"	3.5"	21 LBS

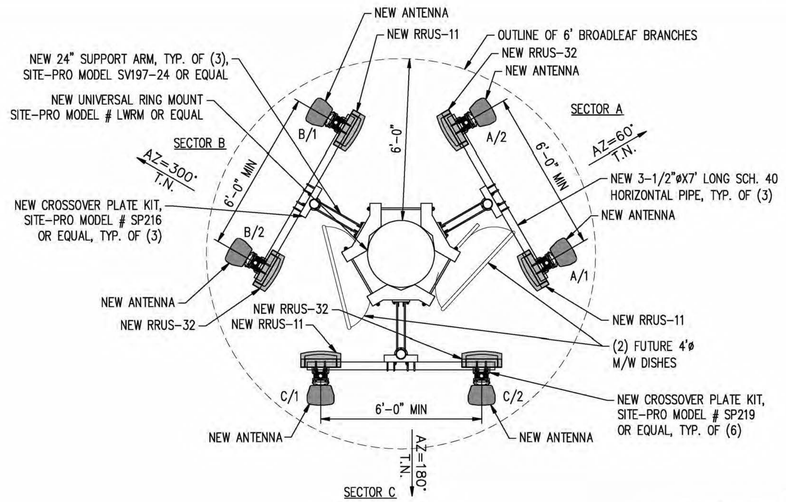
NOTE: SEE RF SHEET FOR RRU PLACEMENT

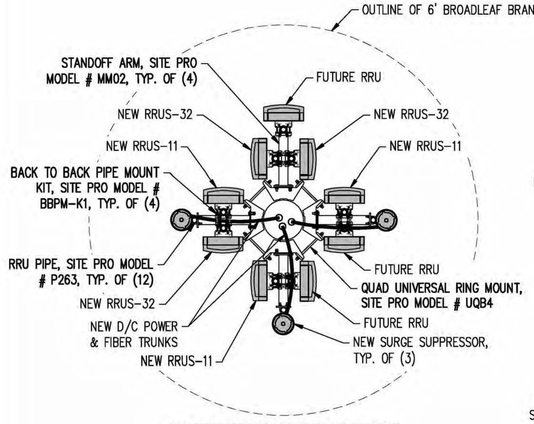
RRU DETAIL | SCALE: N.T.S. | 4

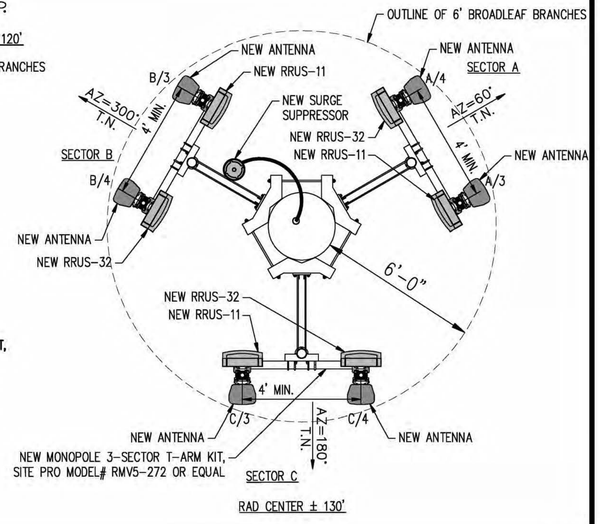
RF SCHEDULE

SECTOR/POS.	ANTENNA MODEL	RAD CENTER	PHYSICAL AZIMUTH	RRU	TMA	FIBER LENGTH	COAX LENGTH	COAX DIA.	NO.
A/1	QS6656-3	± 120'	60°	(1) RRUS-11 & (1) RRUS-32 B2	N/A	± 180'	± N/A	N/A	-
A/2	QS6656-3	± 120'	60°	(1) RRUS-11	N/A	± 180'	± N/A	N/A	-
A/3	QS6656-3	± 130'	60°	(1) RRUS-11 & (1) RRUS-32 B66	N/A	± 190'	± N/A	N/A	-
A/4	QS6656-3	± 130'	60°	(1) RRUS-32 B30	N/A	± 190'	± N/A	N/A	-
B/1	QS6656-3	± 120'	300°	(1) RRUS-11 & (1) RRUS-32 B2	N/A	± 180'	± N/A	N/A	-
B/2	QS6656-3	± 120'	300°	(1) RRUS-11	N/A	± 180'	± N/A	N/A	-
B/3	QS6656-3	± 130'	300°	(1) RRUS-11 & (1) RRUS-32 B66	N/A	± 190'	± N/A	N/A	-
B/4	QS6656-3	± 130'	300°	(1) RRUS-32 B30	N/A	± 190'	± N/A	N/A	-
C/1	QS6656-3	± 120'	180°	(1) RRUS-11 & (1) RRUS-32 B2	N/A	± 180'	± N/A	N/A	-
C/2	QS6656-3	± 120'	180°	(1) RRUS-11	N/A	± 180'	± N/A	N/A	-
C/3	QS6656-3	± 130'	180°	(1) RRUS-11 & (1) RRUS-32 B66	N/A	± 190'	± N/A	N/A	-
C/4	QS6656-3	± 130'	180°	(1) RRUS-32 B30	N/A	± 190'	± N/A	N/A	-

RF SCHEDULE | SCALE: N.T.S. | 1







ANTENNA PLAN | SCALE: 3/8"=1'-0" | 2

PROPRIETARY INFORMATION

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CLIENT:

at&t

2600 CAMINO RAMON
SAN RAMON, CA 94583

PROJECT INFORMATION:

LATROBE
7160 DRAGON POINT RD
SHINGLE SPRINGS, CA 95682

REV:	DATE:	DESCRIPTION:	BY:
1	4-27-17	90% ZONING DOC'S	RB
2	5-10-17	REV 90% ZONING DOC'S	RB
3	5-24-17	REV 90% ZONING DOC'S	RB
4	6-13-17	REV 90% ZONING DOC'S	RB
5	8-2-17	REV 90% ZONING DOC'S	RB
6	8-21-17	100% ZONING DOC'S	RB

COORDINATING ENGINEER:

Peek Site-Com
12852 Earhart Ave. Suite 101
Auburn, California 95602
Phone (530) 885-6160
E-Mail info@peeksitecom.com

SEAL:

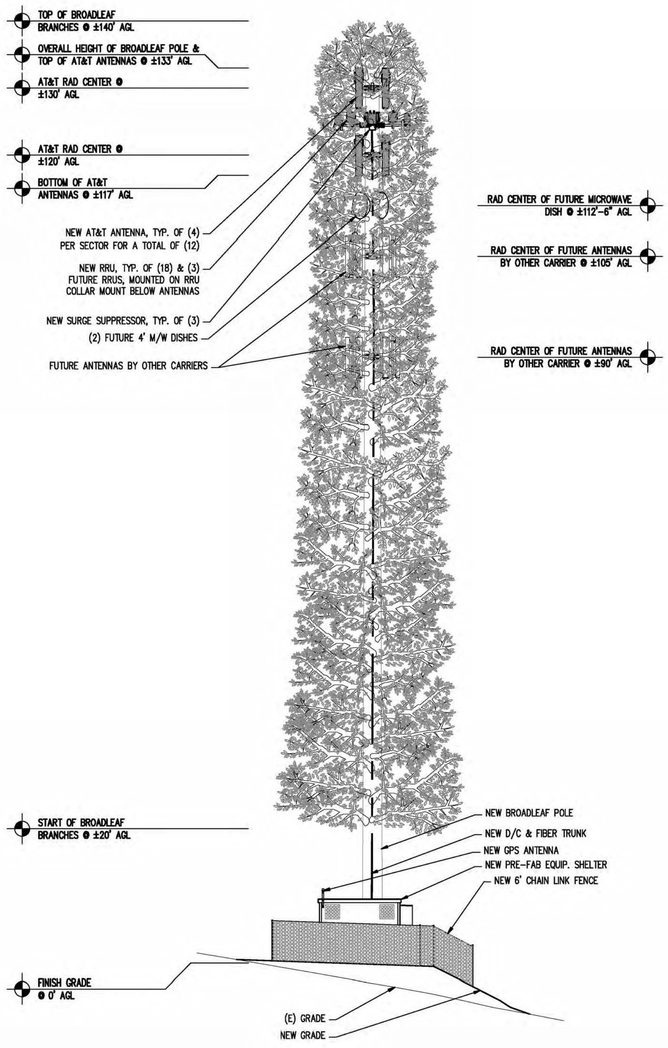
REGISTERED PROFESSIONAL ENGINEER
CHRIS OLIVEIRA
NO. C 33407
EXP. 06/30/18
CIVIL
STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

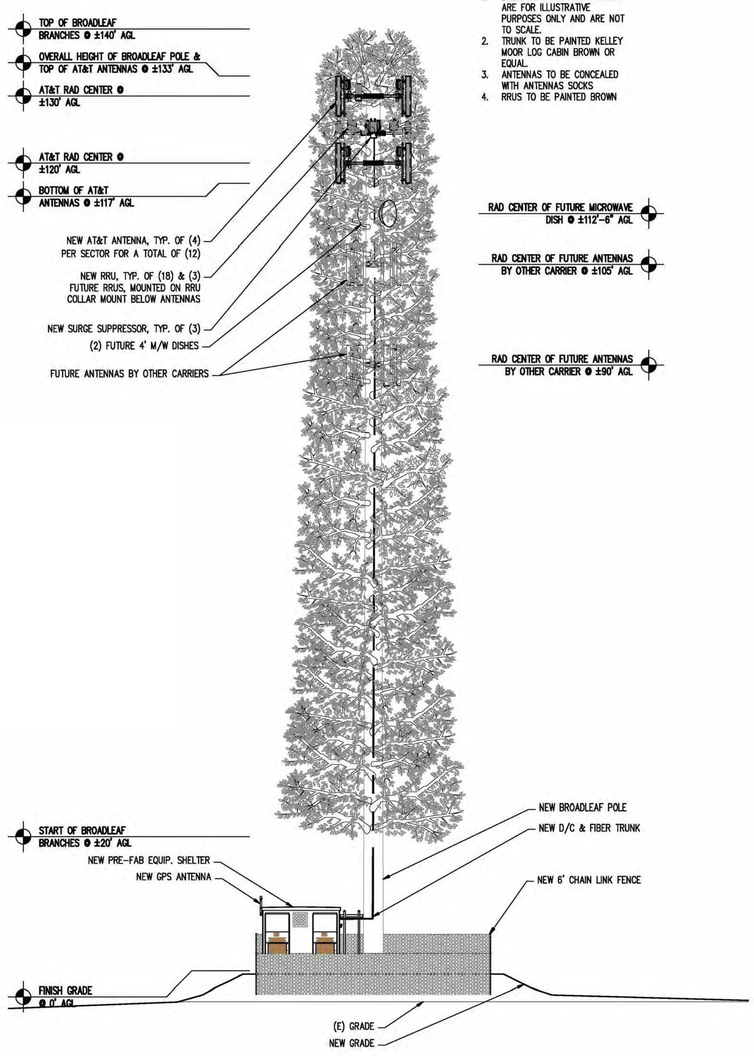
SHEET TITLE:

ANTENNA PLAN & DETAILS

SHEET NUMBER:	REVISION:
A-3	0



NORTHWEST ELEVATION | SCALE: 3/32"=1'-0" | 2



NOTE:
1. BROADLEAF BRANCHES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY AND ARE NOT TO SCALE.
2. TRUNK TO BE PAINTED KELLEY MOOR LOG CABIN BROWN OR EQUAL.
3. ANTENNAS TO BE CONCEALED WITH ANTENNAS SOCKS
4. RRUS TO BE PAINTED BROWN

SOUTHWEST ELEVATION | SCALE: 3/32"=1'-0" | 1

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5	8-2-17	REV 90% ZONING DOC'S	RB
6	8-21-17	100% ZONING DOC'S	RB

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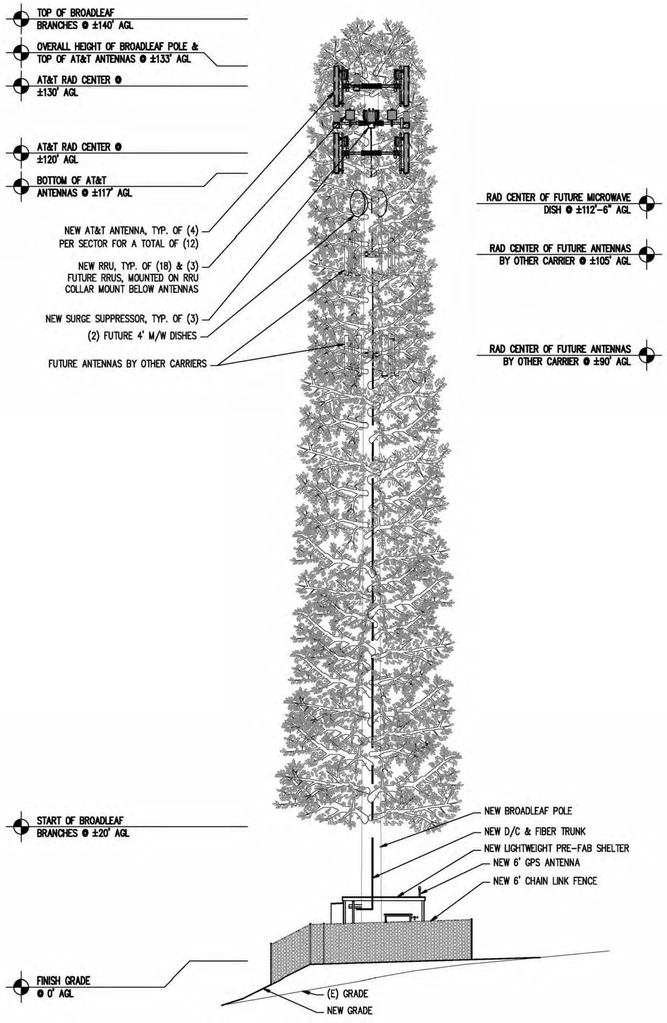
EXP. 06/30/18
CIVIL
STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

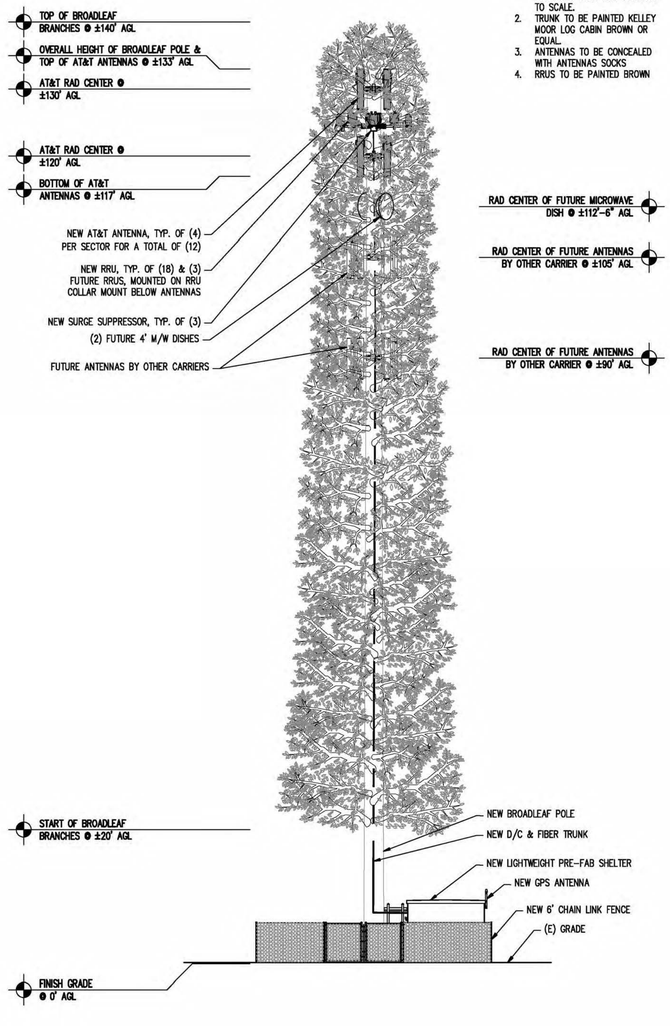
SHEET TITLE:

ELEVATIONS

SHEET NUMBER:	REVISION:
A-4	0



SOUTHEAST ELEVATION | SCALE: 3/32"=1'-0" | 2



NORTHEAST ELEVATION | SCALE: 3/32"=1'-0" | 1

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CIVIL
STATE OF CALIFORNIA

SITE #:	CHK.:	DRAWN BY:
CVL03138	...	RB

SHEET TITLE:

ELEVATIONS

SHEET NUMBER:	REVISION:
A-4.1	0

Exhibit G
Site 5 Latrobe

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Shot Point Map

Existing

Proposed

view from Latrobe Road looking southwest at site

AT&T Wireless

CVL03138 Latrobe
7160 Dragon Point Road, Shingle Springs, CA
Photosims Produced on 6-16-2017

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing

Proposed

view from Falcon Haven Road looking southwest at site

AT&T Wireless

CVL03138 Latrobe
7160 Dragon Point Road, Shingle Springs, CA
Photosims Produced on 6-16-2017

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing

Proposed

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

view from Falcon Haven Road looking westat site

AT&T Wireless

CVL03138 Latrobe
7160 Dragon Point Road, Shingle Springs, CA
Photosims Produced on 6-16-2017

Existing

Proposed

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

view from Falcon Haven Road northwest at site

AT&T Wireless

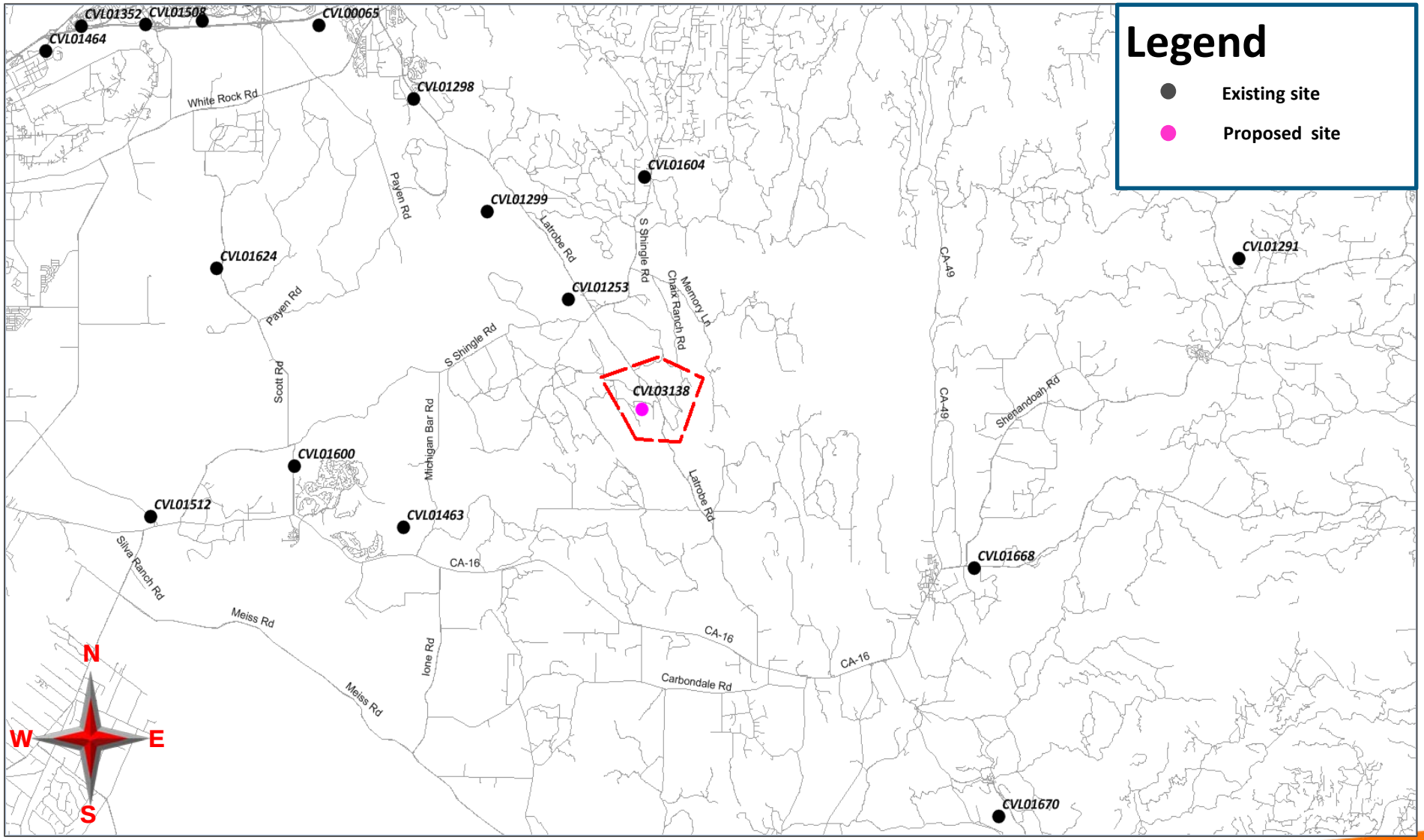
CVL03138 Latrobe
7160 Dragon Point Road, Shingle Springs, CA
Photosims Produced on 6-16-2017

CVL03138 Zoning Propagation Map

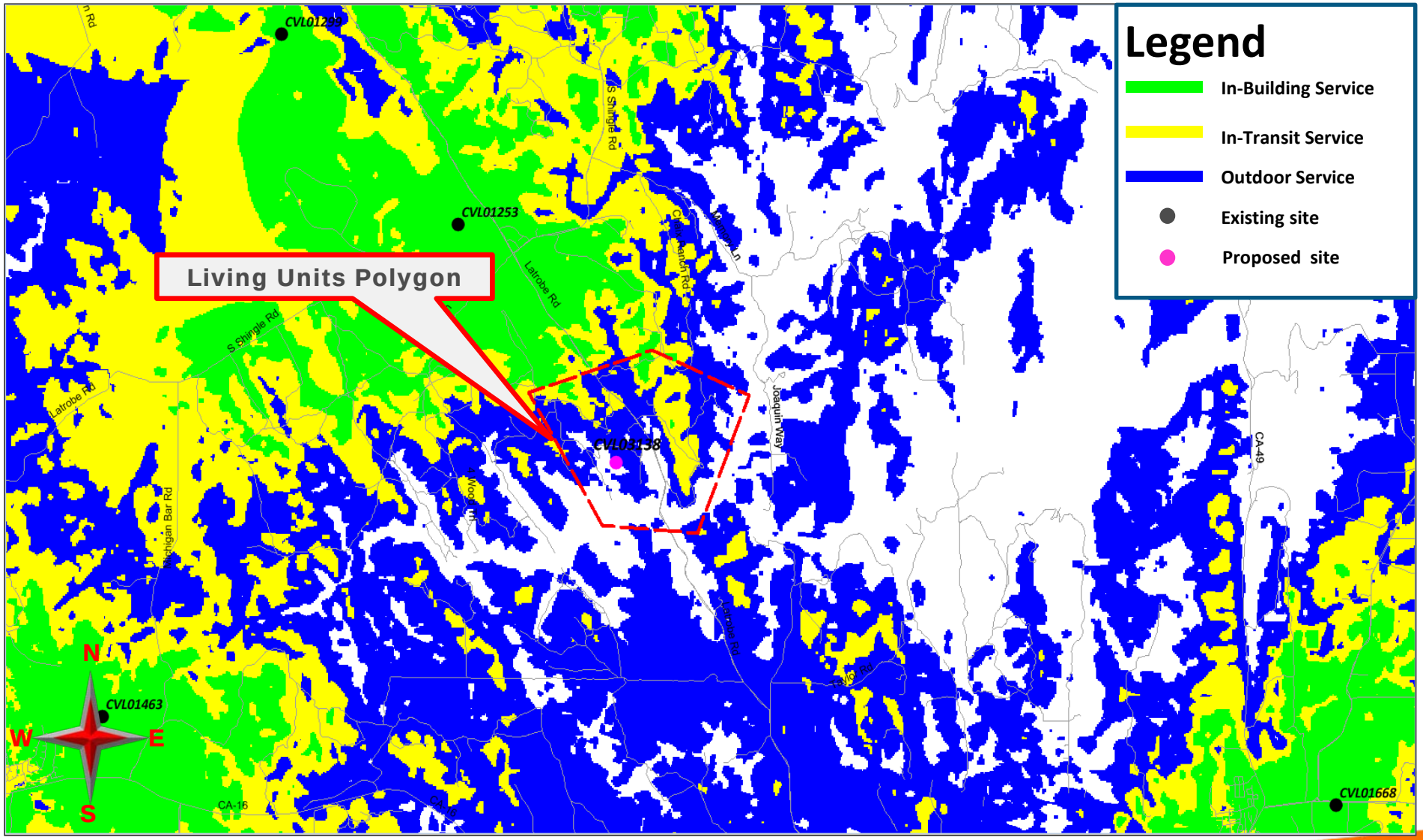
May 19th, 2017

Exhibit H
Site 5 Latrobe

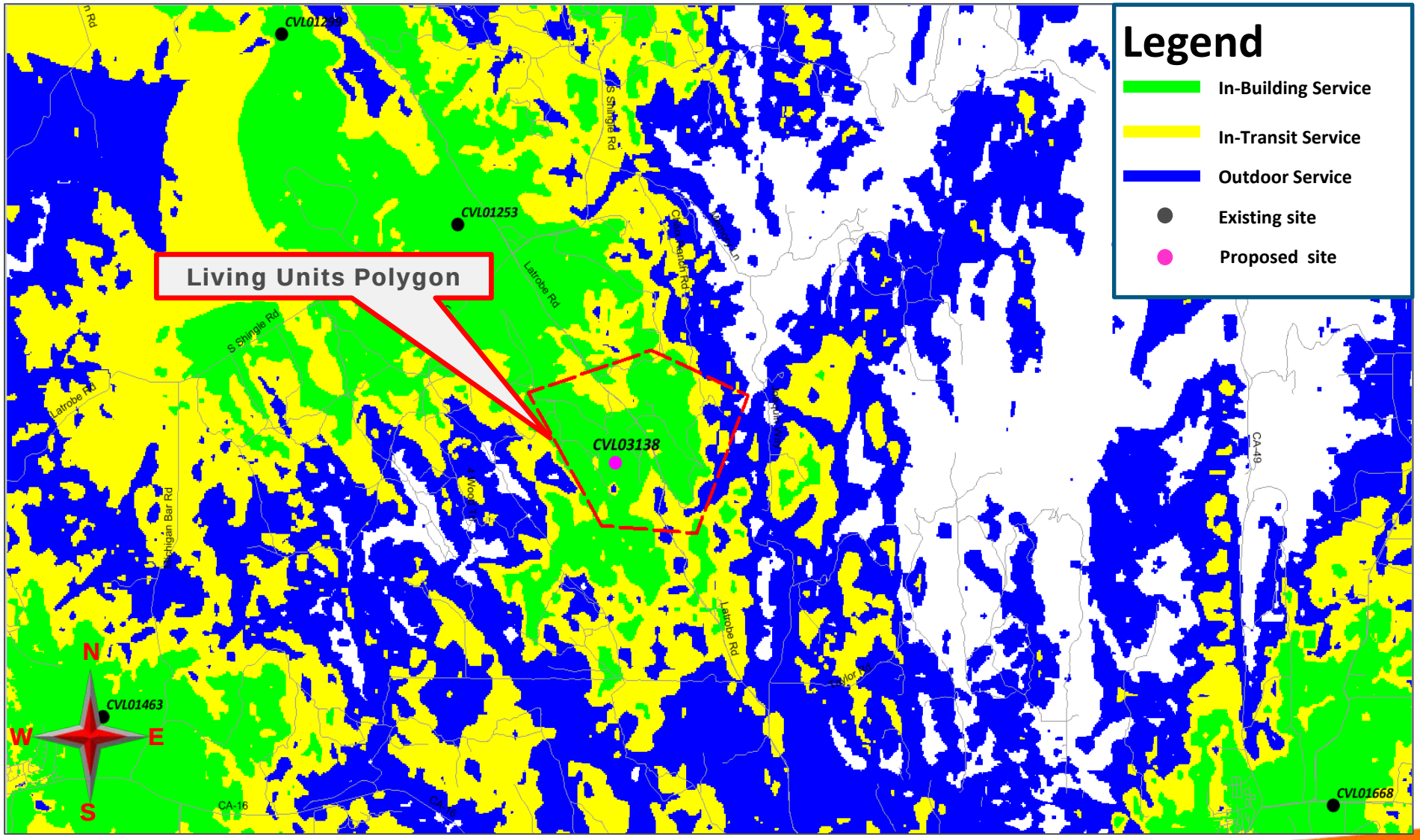
Street View With Existing and Proposed Site



Existing LTE 700 Coverage



Existing LTE 700 Coverage With CVL03138 @ RC – 130ft Supports 116 LU's



Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name:	**Latrobe**	**Site Structure Type:**	**Broadleaf Pole**
Address:	**7160 Dragon Point Road**	**Latitude:**	**38.529186**
	Shingle Springs, California	**Longitude:**	**-120.963094**
Report Date:	**June 19, 2017**	**Project:**	**New Build**

General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed Latrobe site located at 7160 Dragon Point Road, Shingle Springs, 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. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

	Limits for General Population/ Uncontrolled Exposure		***Limits for Occupational/ Controlled Exposure***	
Frequency (MHz)	**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.

Exhibit I
Site 5 Latrobe

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 antennas
- Install nine (9) new RRUS-11
- Install nine (9) new RRUS-32

The antennas will be mounted on a new 143-foot broadleaf pole with centerlines at 120 and 130 feet above ground level. The antennas will be oriented toward 60, 300 and 180 degrees. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 17,359 Watts. Other appurtenances such as GPS antennas, 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 0.4150% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.1515% of the FCC General Population 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 compound gate. RF alerting signage (Caution) should be posted at the base of the proposed tower to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.

Figure 1: Antenna Locations

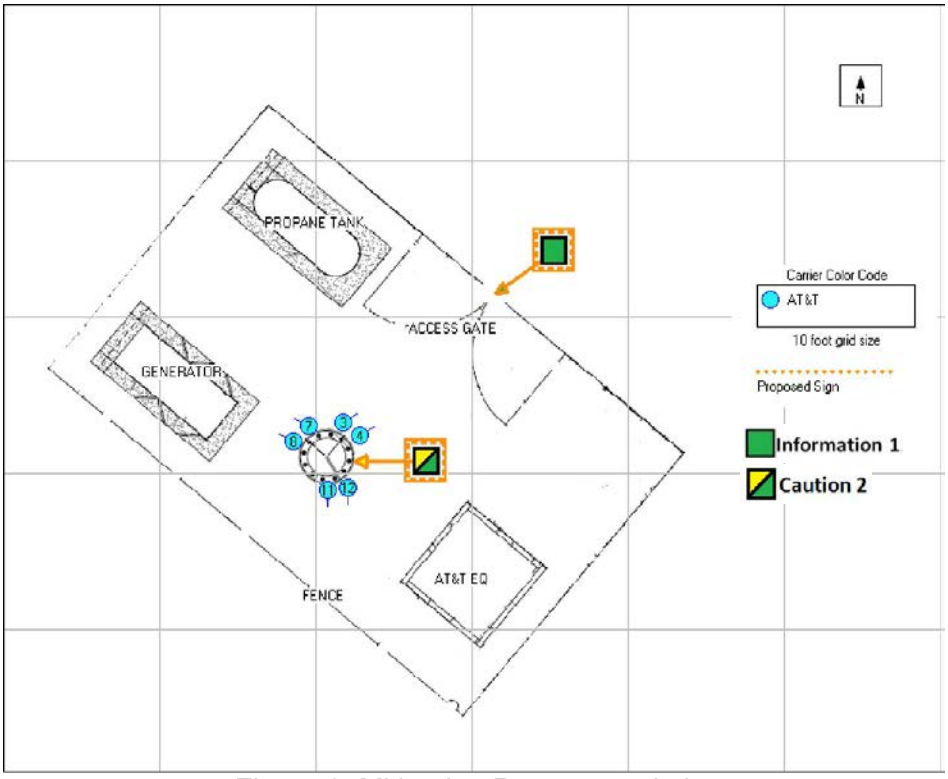


Figure 2: Mitigation Recommendations

Compliance Statement

Based on information provided by AT&T Mobility and predictive modeling, the installation proposed by AT&T Mobility at 7160 Dragon Point Road, Shingle Springs, 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 tower to authorized climbers that have completed RF safety training is required for Occupational environment compliance.

Certification

I, Steven N. Baier-Anderson, 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.

on Behalf of

PROJECT SUPPORT STATEMENT

AT&T PROJECT NAME: CONNECT AMERICA FUND II (CAF II) PROJECT

DEVELOPMENT APPLICATION FOR AT&T SITE "LATROBE"

AT&T SITE NUMBER: CVL03138

AUTHORIZED AGENT:

EPIC WIRELESS GROUP, LLC

ZONING MANAGER:

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

PROPERTY OWNER: DOUGLAS AND LIANNE BRAUN.

916-835-6027

APN: 087-181-10-100

7160 DRAGON POINT ROAD, SHINGLE SPRINGS, CA 95682

- **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**

Exhibit J
Site 5 Latrobe

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.

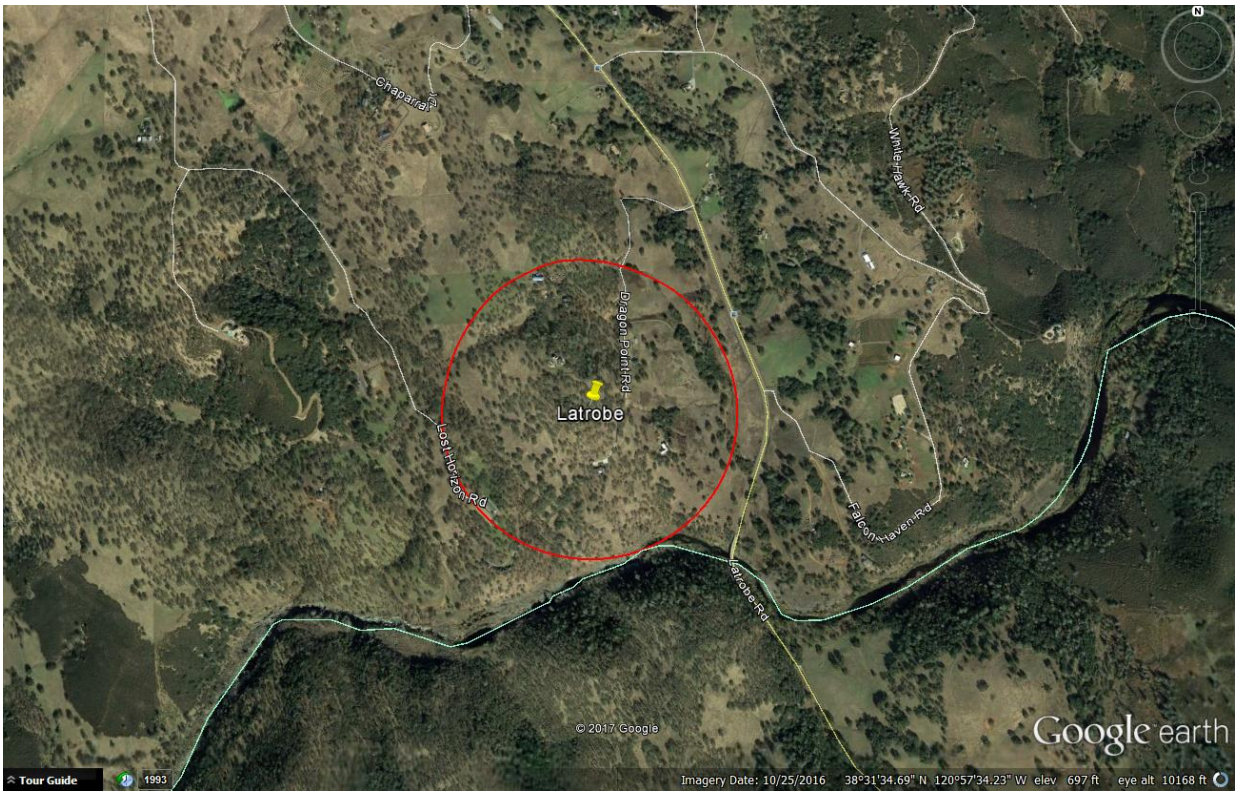
AT&T has the necessary technology that allows them to build out their territory in El Dorado County with the much demanded hi-speed broadband internet to help improve the county's rural infrastructure. AT&T's basis for transmitting and receiving hi-speed broadband internet to residences is executed by 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.

on Behalf of

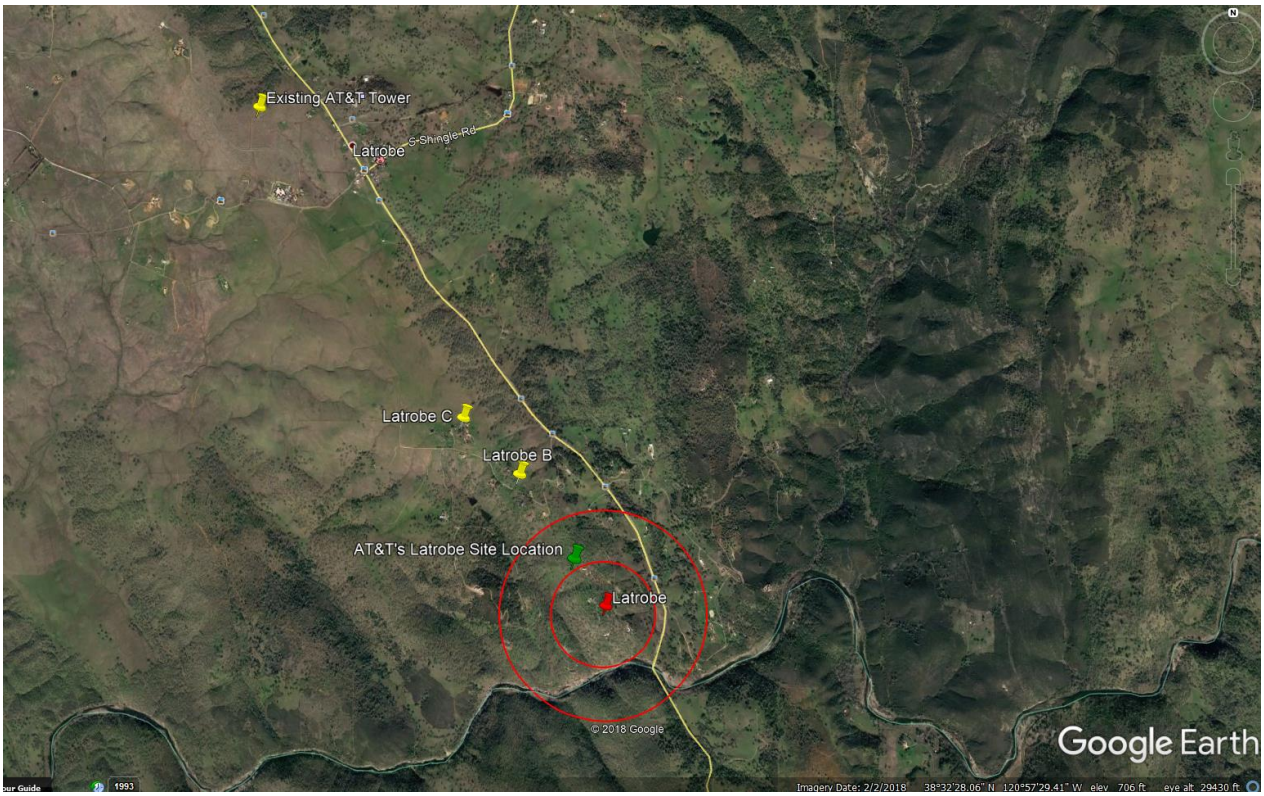
Search Ring's Description and Objectives:



AT&T Mobility is proposing to build and maintain an unmanned wireless telecommunication facility consisting of a 30' x 35', 1,050 square foot enclosed compound (lease area). The compound will include a 140 foot Stealth Broadleaf tower, one equipment shelter, one 35kw standby propane generator, and one 500 gallon propane tank. This facility will be located at 7160 Dragon Point Rd, Shingle Springs, within El Dorado County's jurisdiction in a 20 acre RL-20 zone. The site is approximately 0.50 miles north of the Consumnes River and the area consists of evergreen trees, oak trees and rolling hills with rocky terrain.

AT&T's objective for the Pilot Hill site is to provide wireless hi-speed broadband internet and cellular services to the nearby residences. This site is to provide hi-speed internet and enhanced cellular coverage & capacity to the Latrobe community that surrounds the search ring which is a relatively dense underserved area. The site location's elevation is approximately 742.5 feet while the community of Latrobe's elevation averages around 500 feet, giving the homes within the community great potential for line of site to the tower. After running a coverage simulation at the site location, AT&T is anticipating meeting their FCC objective for this search ring.

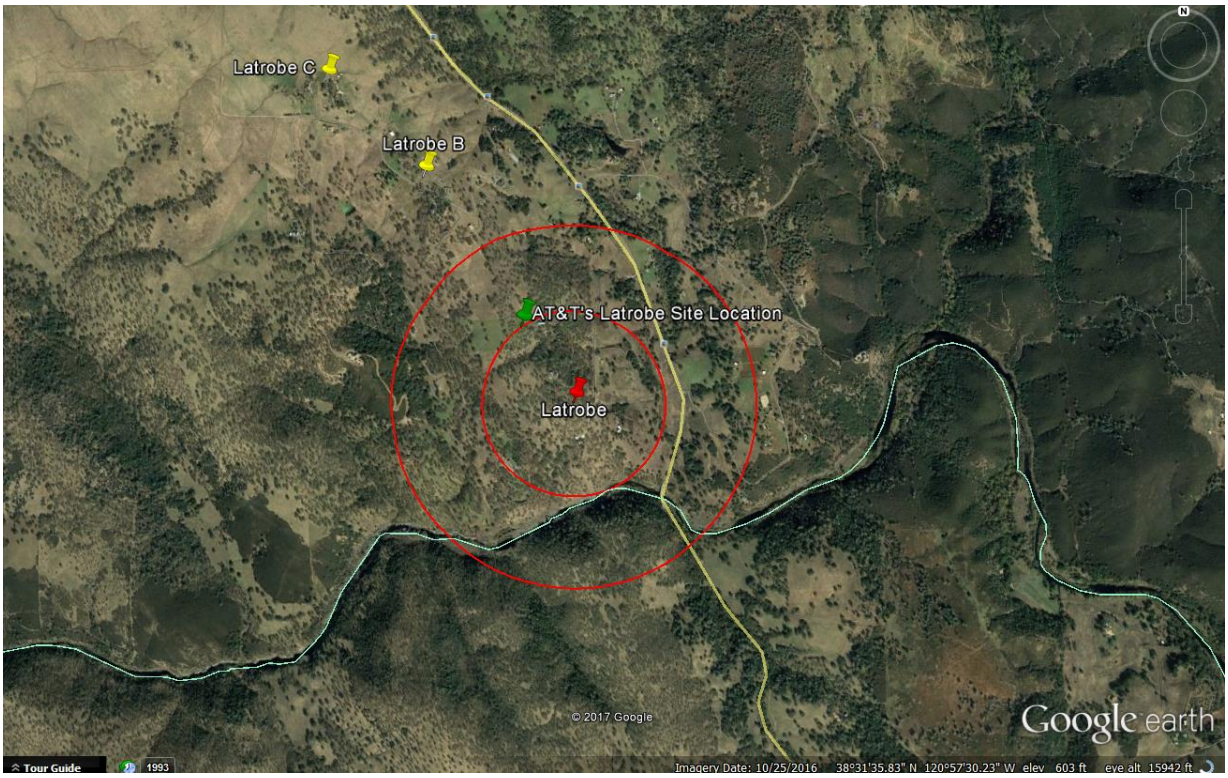
Potential Co-locations:



There are no potential Co-location opportunities in the near vicinity of the provided Search Ring. The nearest Existing Tower to the Latrobe proposed site location is approximately 2.75 miles due northwest. AT&T is currently located on said tower which services the community to the north. The proposed Latrobe site is designed to fill a gap in coverage south of the Existing Tower and to provide highspeed wireless broadband internet to the surrounding homes.

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

Latrobe Alternative Candidate B:

7100 Chaparral Drive, Shingle Springs, CA 95682

Latitude/Longitude: 38.535022, -120.968088

Proposal – New Monopine

Considerations:

Candidate B is located approximately 0.75 miles northwest of the center of AT&T's search ring. The proposed tower would be located on a 21.35 acre, RL-20 zoned property owned by Christopher and Diana Capra. The property is located on the north side of Chaparral Drive and the site was proposed on the southwest end of the property. Candidate B was chosen as AT&T's Primary candidate since it produced approximately 5% more LU's than the proposed site on Dragon Point Road. After further investigation, however, Epic discovered that the property's CC&R's restricted commercial building and therefore Epic disqualified the candidate. Epic carried out further due diligence and learned that the vast majority of AT&T's Search Ring and the surrounding area was affected by the CC&Rs. These findings limited the available locations to place a Commercial Facility within or in close proximity of AT&T's Search Ring. All other factors such as aesthetical impacts, environmental impacts, Land Use, etc. became irrelevant on the alternative sites given the limitations that the CC&Rs had on the AT&T site location.

on Behalf of

Latrobe Alternative Candidate C:

7340 Chaparral Drive, Shingle Springs, CA 95682

Latitude/Longitude: 38.539163, -120.973116

Proposal – New Monopine

Candidate C is located approximately 1 mile northwest of the center of AT&T's search ring. The proposed tower would be located on a 21.12 acre, RL-20 zoned property owned by William and Varacalli Rose. The property is located on the north side of Chaparral Drive and the site was proposed on the northwest end of the property. Candidate C was chosen as AT&T's third preferred candidate as the RF Engineer's simulation yielded 10% fewer LU's than the subject site located at 7160 Dragon Point Road. Even though the property is of higher elevation than the subject property, Candidate C is further away from homes which caused a lower LU count compared to the subject property. This property, like Candidate B, is also within the affected CC&R's which automatically eliminated the property indefinitely. The property owner, Bill Rose, currently provides wireless internet to the homes in the surrounding area via antenna's mounted to his roof. Mr. Rose was excited of having AT&T in the area, on his property or not, to relieve him of his ongoing obligation of providing internet to the surrounding homes. Mr. Rose's perspective is that AT&T is a good long term solution to provide wireless high speed internet to the community which would alleviate his duties of providing internet to the community.

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

7151 Chaparral Dr., Shingle Springs, CA 95682 – APN: 087-181-09; Owner: Phillip & Linda Meade

7220 Dragon Point Rd., Shingle Springs, CA 95683 – APN: 087-181-41; Owner: Brad & Shanel Nicholson

7260 Chaparral Dr., Shingle Springs, CA 95682 – APN: 087-181-03; Owner: Vincent Singh

7440 Chaparral Dr., Shingle Springs, CA 95682 – APN: 087-181-01; Owner: Gene & Linda Rivers

8100 White Hawk Rd., Shingle Springs, CA 95682 – APN: 087-181-35; Owner: Jennifer & Henry Meyer

8040 White Hawk Rd., Shingle Springs, CA 95682 – APN: 087-181-34; Owner: Steven Pratt

REJECTED BY RF ENGINEER (INSUFFICIENT LU'S):

9221 Falcon Haven Rd., Shingle Springs, CA 95682 – APN: 087-181-31; Owner: Lewis & Christine Ridgeway

9001 Lost Horizon Rd., Shingle Springs, CA 95682 – APN: 087-060-23; Owner: Steven & Sheryl Johnson

23268 Latrobe Rd., PLYMOUTH, CA 95669 (NOT EL DORADO CO) – Insufficient LU's.

on Behalf of

Actual View of the Proposed Location:

The proposed lease area is on the north side of the property. The site will not interfere with the existing Land Use (RR) of the property and is an allowed Use per the Zone subject to an approval of a Conditional Use Permit. Access will be directly off Dragon Point Road. The site is elevated above the surrounding area and has great potential for line of site to the community down below the subject parcel. The subject parcel is one of few that are not within the affected CC&R area. The few other non-CC&R properties are either uninterested or are too low in elevation resulting in insufficient coverage. The Braun residence is literally the only available property that will provide adequate coverage while being environmentally and aesthetically unobtrusive. The location was chosen on the north side of the property given the nearest homes are located on the south side of the property. The nearest home to the site location is approximately 790 feet to the south east. The nearest property line is a vacant parcel and is 30 feet from the corner of the fenced compound which is the minimum building set back per El Dorado County's setback ordinance. The area comprises of Oak Woodlands, however, no Oak Woodlands will be severely impacted or removed. If the site was relocated to the south side of the property, multiple Oak Woodlands would be required to be removed and the site would be more intrusive to the existing homes. Also, the elevation drops off to the south which would result in inadequate coverage for the site. A broadleaf faux tree-pole has been chosen to better blend in with the oak woodlands as the least intrusive means while filling AT&T's significant gap in coverage.

EPIC WIRELESS GROUP LLC
Connecting a Wireless World

on Behalf of

at&t

Planning Services

Home > Government > Planning

PARCEL DATA INFORMATION

7/28/2017

Enter Another Parcel

Assessor's Parcel Number: 087-181-10

PROPERTY INFORMATION:

STATUS	JURISDICTION	TAX RATE	MAP	ACREAGE
ON ASSESSMENT ROLL AND TAXED	COUNTY OF EL DORADO	76 - 7	RS 21/47/1	20

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
RR									

2015 ZONING INFORMATION:

ZONING DESIGNATION	DESIGN CONTROL	PLANNED DEVELOPMENT	OTHER OVERLAYS
RL-20			

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
RR									

2004 ZONING INFORMATION:

ZONING DESIGNATION	DESIGN CONTROL	PLANNED DEVELOPMENT	OTHER OVERLAYS
RA-20			

DISTRICTS:

FIRE	CSD	SCHOOL	WATER
EL DORADO HILLS WATR/FIRE		LATROBE	UNASSIGNED

FLOOD ZONE INFORMATION (See Note below):

FIRM PANEL NUMBER & REVISION	PANEL REVISION DATE	FLOOD ZONE	FLOOD ZONE BUFFER	FLOODWAY
06017C0975E	09/26/2008	X		

MISCELLANEOUS DATA:

SUPERVISORIAL DISTRICT		AG PRESERVE	RARE PLANT MITIGATION AREA	MISSOURI FLAT MC&FP
2	SHIVA FRENTZEN			No

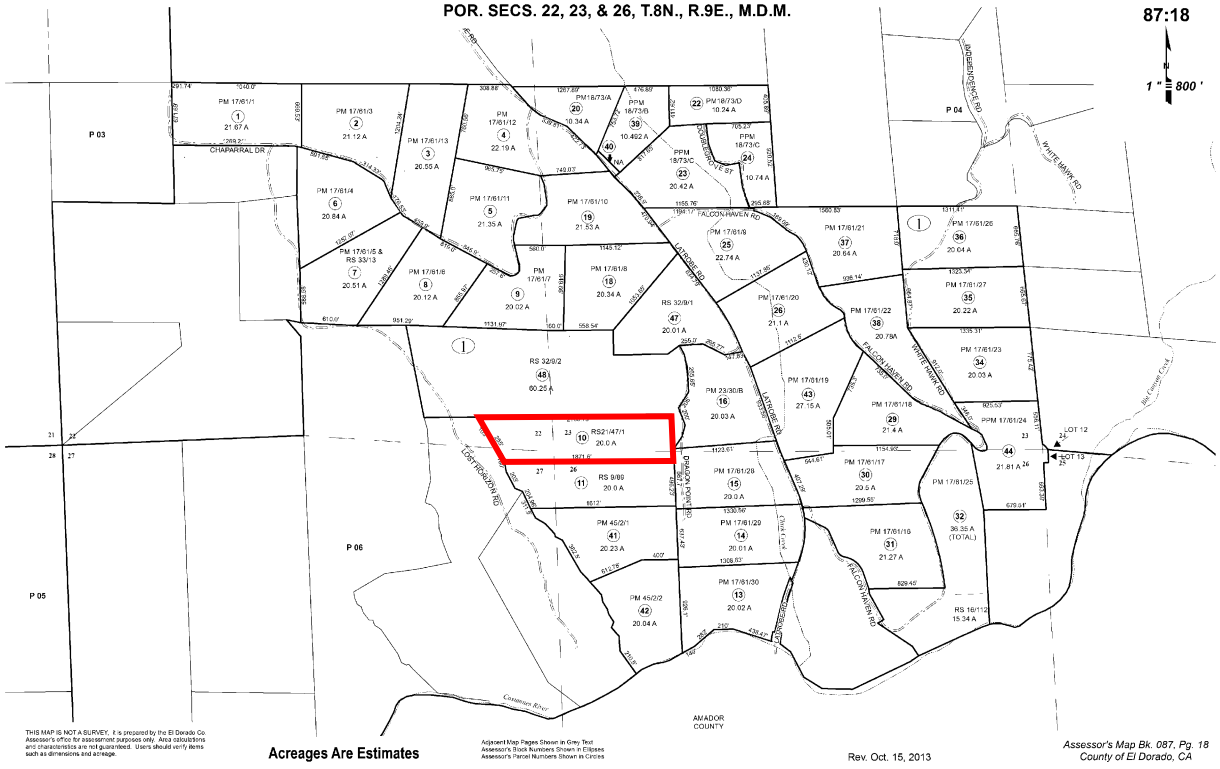
REMARKS:

No Eligibility Review Required

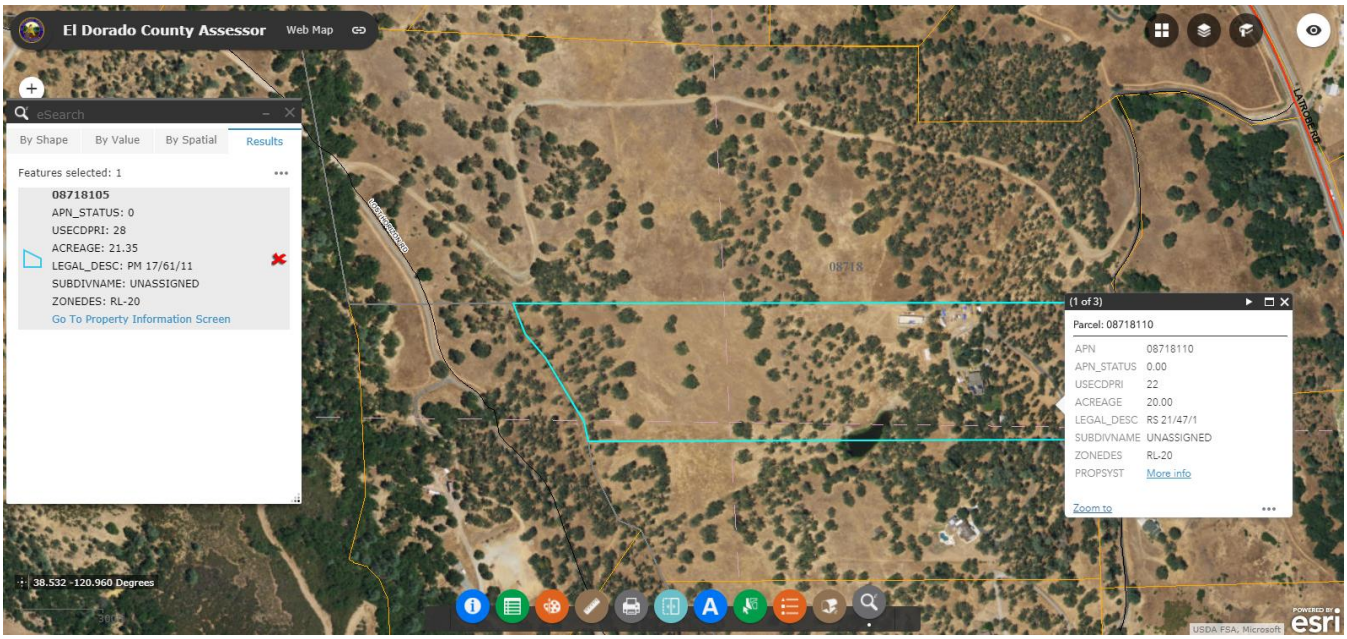
NOTE: The flood zone information presented here is based solely on data derived from the FEMA Flood Information Rate Maps, and does not include data from any other flood studies.

on Behalf of

Assessor's Parcel Map

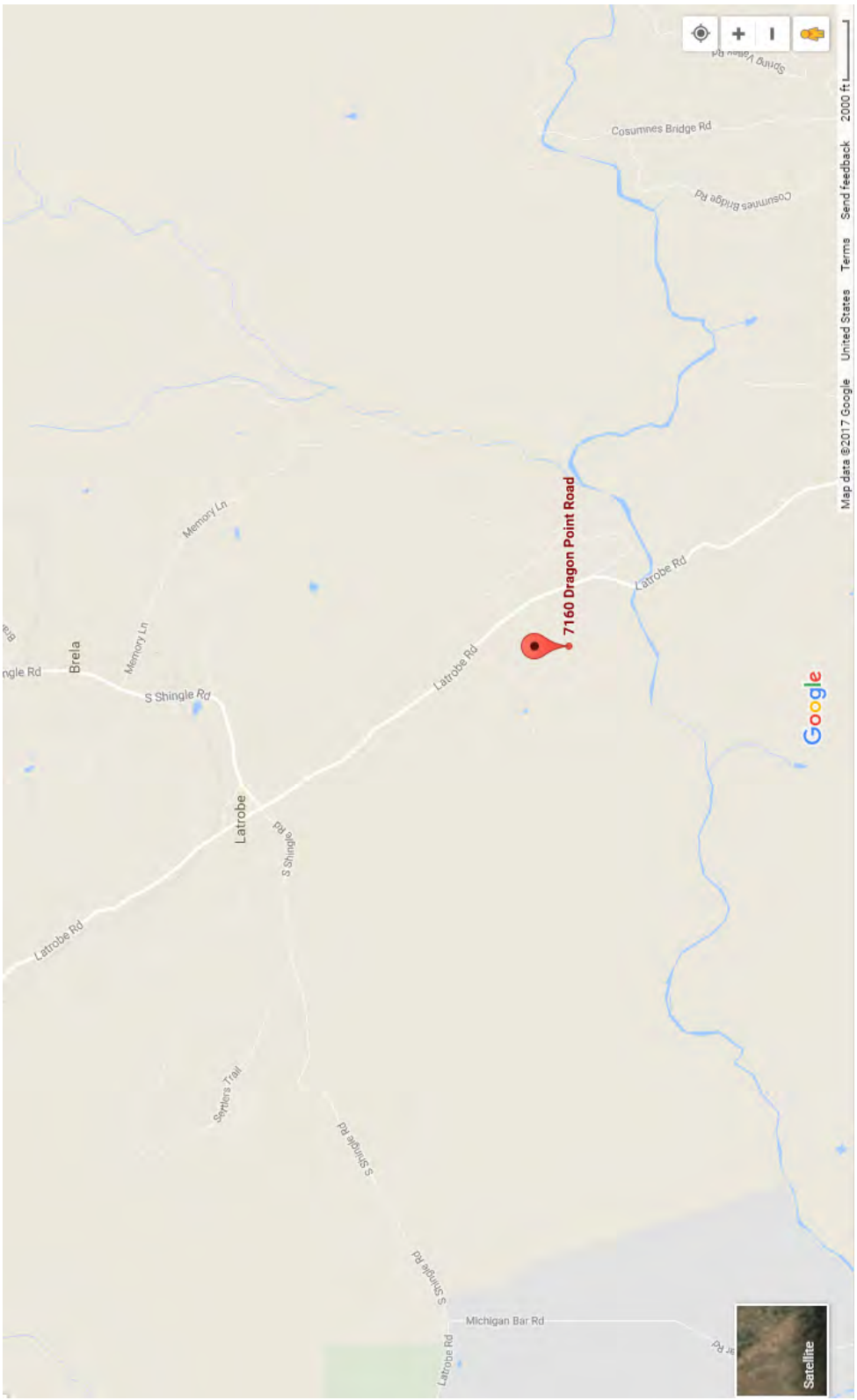


Zoning Map


El Dorado County Assessor
Web Map
eSearch
By Shape
By Value
By Spatial
Results
Features selected: 1
08718105
APN_STATUS: 0
USECDPRI: 28
ACREAGE: 21.35
LEGAL_DESC: PM 17/61/11
SUBDIVNAME: UNASSIGNED
ZONEDES: RL-20
Go To Property Information Screen
38.532 -120.960 Degrees
(1 of 3)
Parcel: 08718110
APN 08718110
APN_STATUS 0.00
USECDPRI 22
ACREAGE 20.00
LEGAL_DESC RS 21/47/1
SUBDIVNAME UNASSIGNED
ZONEDES RL-20
PROPSYST More info
Zoom to
08718
USDA FSA, Microsoft
esri

on Behalf of

Vicinity Map



on Behalf of

Overhead View of Lease Area:

Emergency 35kw Propane Generator and 4 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

$$L_2 = L_1 - |20 \cdot \log\left(\frac{r_1}{r_2}\right)| \qquad L_2 = L_1 - |10 \cdot \log\left(\frac{r_1}{r_2}\right)^2|$$

$$r_2 = r_1 \cdot 10^{\left(\frac{|L_1 - L_2|}{20}\right)} \qquad r_1 = \frac{r_2}{10^{\left(\frac{|L_1 - L_2|}{20}\right)}}$$

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

Sound Specifications:

- Emergency Generator Model: SG035 Generac
  - Average decibel (dBa) level at 23 feet = 64.9 dBa
- HVAC Model: ASDCA48
  - Average decibel (dBa) level at 50 feet = 57 dBa

Sound Specifications while taking the Sound Blanket into consideration:

- Emergency Generator Model: SG035 Generac
  - Average decibel (dBa) level at 23 feet = 58.11 dBa
- HVAC Model: ASDCA48
  - Average decibel (dBa) level at 50 feet = 46.36 dBa

Findings:

1. Distance to the Property Line of APN 087-181-48 = 30'
   a. Generator Decibel level at 30' = 55.8 dBa
   b. HVAC Decibel level at 30' = 50 dBa
2. Distance to closest residence: APN 104-320-30 = 790'
   a. Generator Decibel level at 790' = 34.18 dBa
   b. HVAC Decibel level at 790' = 22.39 dBa

Conclusion:

After calculating all decibel levels at the nearby residence's property line and actual residence, the onsite Emergency Backup Generator and HVAC systems 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

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

	OCTAVE BAND FREQUENCIES (Hz)						
Product	**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

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

ASTM C 423
* when properly installed.

on Behalf of

Operation Statement:

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

PROJECT DESCRIPTION

AT&T PROPOSES TO CONSTRUCT A NEW UNMANNED TELECOMMUNICATIONS FACILITY. AT&T WILL INSTALL:

- (1) NEW 12' WIDE A/C PAVED ACCESS ROAD
- (1) NEW 30'X35' FENCED LEASE AREA
- (1) NEW 6' CHAIN LINK FENCE
- (1) NEW 12' WIDE DOUBLE ACCESS GATE
- (1) NEW 140' BROADLEAF POLE
- (1) NEW PRE-FAB "WIC" LIGHT WEIGHT EQUIPMENT SHELTER WITH ANCILLARY INTERIOR EQUIPMENT
- (1) NEW GPS ANTENNA
- (1) NEW 15Kw PROPANE GENERATOR
- (1) LP PROPANE TANK (500 GALLON)
- (12) NEW ANTENNAS
- (9) NEW RRUS-11, (9) NEW RRUS-32 & (3) FUTURE RRUS
- (4) NEW SURGE SUPPRESSORS
- (2) FUTURE 4' M/W DISH

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 Dragon Point Rd. One Fire Department Hammer Head will be proposed within the access route. There will be minimal noise from the standby generator, turning on once a week during normal business hours for 15 minutes for maintenance purposes and during emergency power outages. The Facility is approximately 30 feet south of the nearest property line which is a vacant parcel, and approximately 790 feet north-west of the nearest residence. The location is surrounded by evergreens and oak trees. The tower will be built to provide co-location opportunities.

Fire Suppression System:

A 15 foot wide access route will be created directly from Dragon Point Rd. One Fire Department hammerhead Turnaround will be proposed within the access route. 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.

Conclusion:

Candidate A, 7160 Dragon Point Rd, Shingle Springs, meets the FCC's mandated objectives for the community of Latrobe and is the best choice for the surrounding area. The chosen location will meet the FCC's mandated coverage objectives with providing hi-speed broadband internet to the homes in the Latrobe community of El Dorado Co. The Stealth Broadleaf design has been chosen to blend into the existing landscape and natural backdrop of the area as the least intrusive means while filling AT&T's gap in coverage. The property's surrounding foliage and tree canopy will naturally camouflage the facility thereby proving low visual impact to the surrounding residents. The Braun residence is literally the only available property that will provide adequate coverage while being environmentally and aesthetically unobtrusive. Existing CC&R's on the surrounding properties prevent building commercial projects on said properties, forcing AT&T to a non-CC&R property. No Oak Woodlands will be removed or significantly impacted. No special species or protected animals will be impacted per the biological resource assessment prepared by Sycamore Environmental Consultants, Inc.

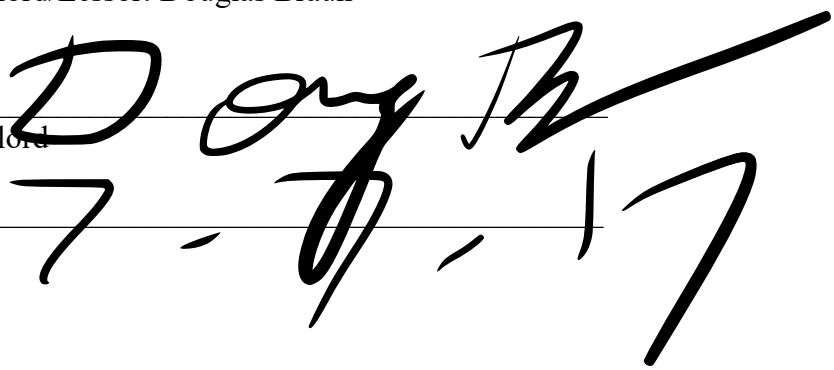
LETTER OF AUTHORIZATION
TO FILE PERMIT APPLICATIONS

Re: El Dorado County APN # 087-181-10-100

To Whom It May Concern:

The undersigned, Landlord, are the owners of the property located at 7160 Dragon Point Road, Shingle Springs, CA 95682, County Assessor's Parcel No. #087-181-10-100, 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: Douglas Braun



Landlord

7-9-17

Date

Print | Email Reports | Export Reports

Ref ID: **Latrobe**

Property Detail Report

For Property Located At :
7160 DRAGON POINT RD, SHINGLE SPRINGS, CA 95682-8073

CoreLogic RealQuest Professional

Owner Information

Owner Name:	**BRAUN DOUGLAS R (TE)/BRAUN LIANNE A (TE)**
Mailing Address:	**7160 DRAGON POINT RD, SHINGLE SPRINGS CA 95682-8073 R001**
Vesting Codes:	**HW / A / TR**

Location Information

Legal Description:	**RS 21/47/1**		
County:	**EL DORADO, CA**	APN:	**087-181-10-100**
Census Tract / Block:	**307.04 / 1**	Alternate APN:	**087-181-10-100**
Township-Range-Sect:		Subdivision:	
Legal Book/Page:		Map Reference:	**40-D1 /**
Legal Lot:		Tract #:	
Legal Block:		School District:	**EL DORADO UN**
Market Area:	**40 D1**	School District Name:	
Neighbor Code:		Munic/Township:	

Owner Transfer Information

Recording/Sale Date:	**02/13/2014 / 02/10/2014**	Deed Type:	**GRANT DEED**
Sale Price:		1st Mtg Document #:	
Document #:	6000		

Last Market Sale Information

Recording/Sale Date:	**06/27/2002 / 09/28/2001**	1st Mtg Amount/Type:	**$126,000 / PRIVATE PARTY**
Sale Price:	**$168,000**	1st Mtg Int. Rate/Type:	**/ FIXED**
Sale Type:	**FULL**	1st Mtg Document #:	46501
Document #:	46500	2nd Mtg Amount/Type:	**/**
Deed Type:	**GRANT DEED**	2nd Mtg Int. Rate/Type:	**/**
Transfer Document #:		Price Per SqFt:	**$48.37**
New Construction:		Multi/Split Sale:	
Title Company:	**PLACER TITLE CO.**		
Lender:			
Seller Name:	**DUNKESON ROZAN**		

Prior Sale Information

Prior Rec/Sale Date:	**09/10/1990 / 07/1990**	Prior Lender:	
Prior Sale Price:		Prior 1st Mtg Amt/Type:	**/**
Prior Doc Number:	3424-177	Prior 1st Mtg Rate/Type:	**/**
Prior Deed Type:	**QUIT CLAIM DEED**		

Property Characteristics

Gross Area:		Parking Type:		Construction:	
Living Area:	**3,473**	Garage Area:		Heat Type:	
Tot Adj Area:		Garage Capacity:		Exterior wall:	
Above Grade:		Parking Spaces:		Porch Type:	
Total Rooms:	**8**	Basement Area:		Patio Type:	
Bedrooms:	**4**	Finish Bsmnt Area:		Pool:	
Bath(F/H):	**3 /**	Basement Type:		Air Cond:	
Year Built / Eff:	**2004 / 2004**	Roof Type:		Style:	
Fireplace:	**/**	Foundation:		Quality:	**AVERAGE**
# of Stories:	**3.00**	Roof Material:		Condition:	**AVERAGE**
Other Improvements:					

Site Information

RURAL IMPROVED 2.5-20

Zoning:	**RA-20**	Acres:	**20.00**	County Use:	**AC (22)**
Lot Area:	**871,200**	Lot Width/Depth:	**x**	State Use:	
Land Use:	**RURAL HOMESITE**	Res/Comm Units:	**1 /**	Water Type:	
Site Influence:				Sewer Type:	

Tax Information

Total Value:	**$517,000**	Assessed Year:	**2015**	Property Tax:	**$5,391.36**
Land Value:	**$168,000**	Improved %:	**68%**	Tax Area:	**076007**
Improvement Value:	**$349,000**	Tax Year:	**2015**	Tax Exemption:	**HOMEOWNER**
Total Taxable Value:	**$510,000**				

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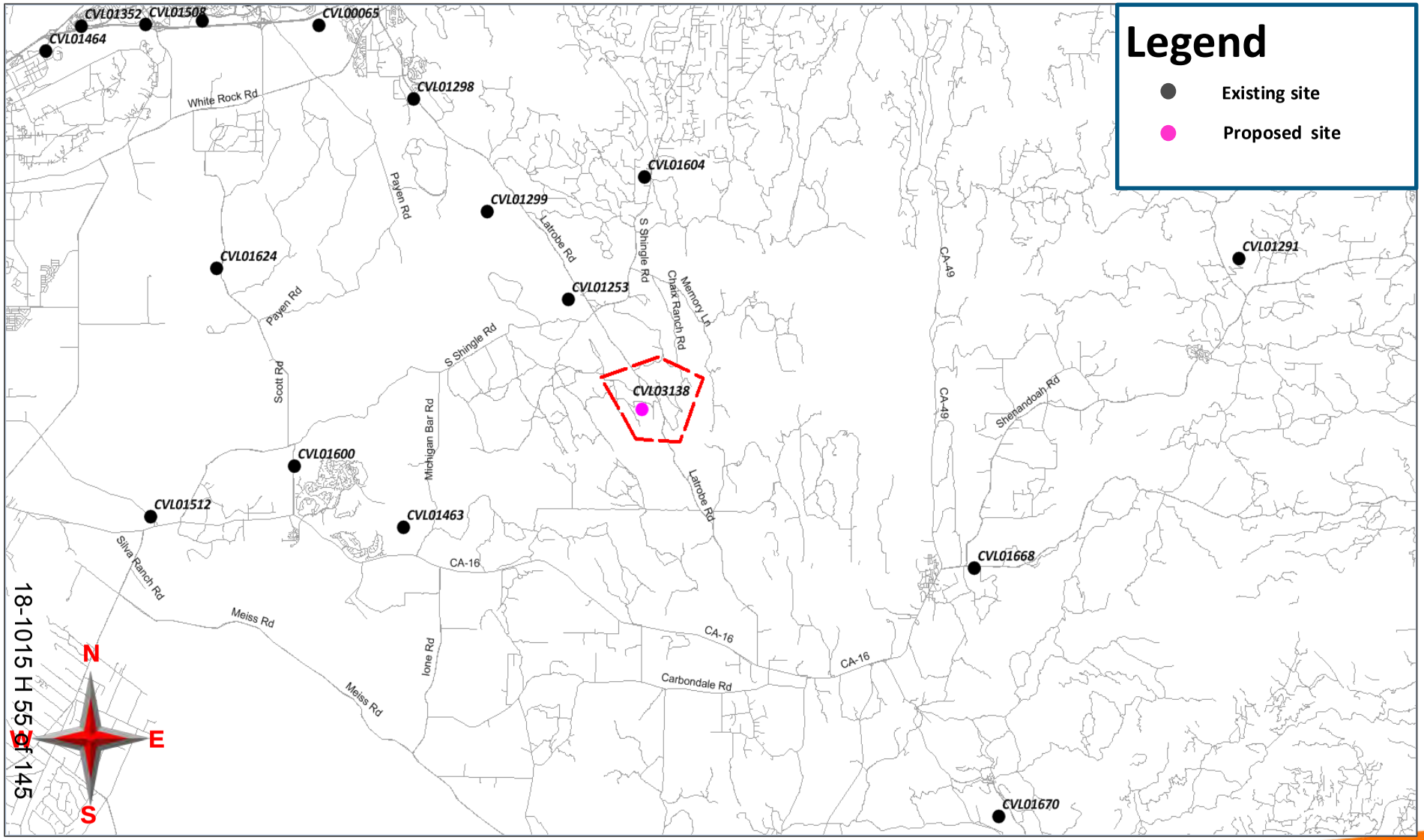
CVL03138 Zoning Propagation Map

May 19th, 2017

Street View With Existing and Proposed Site



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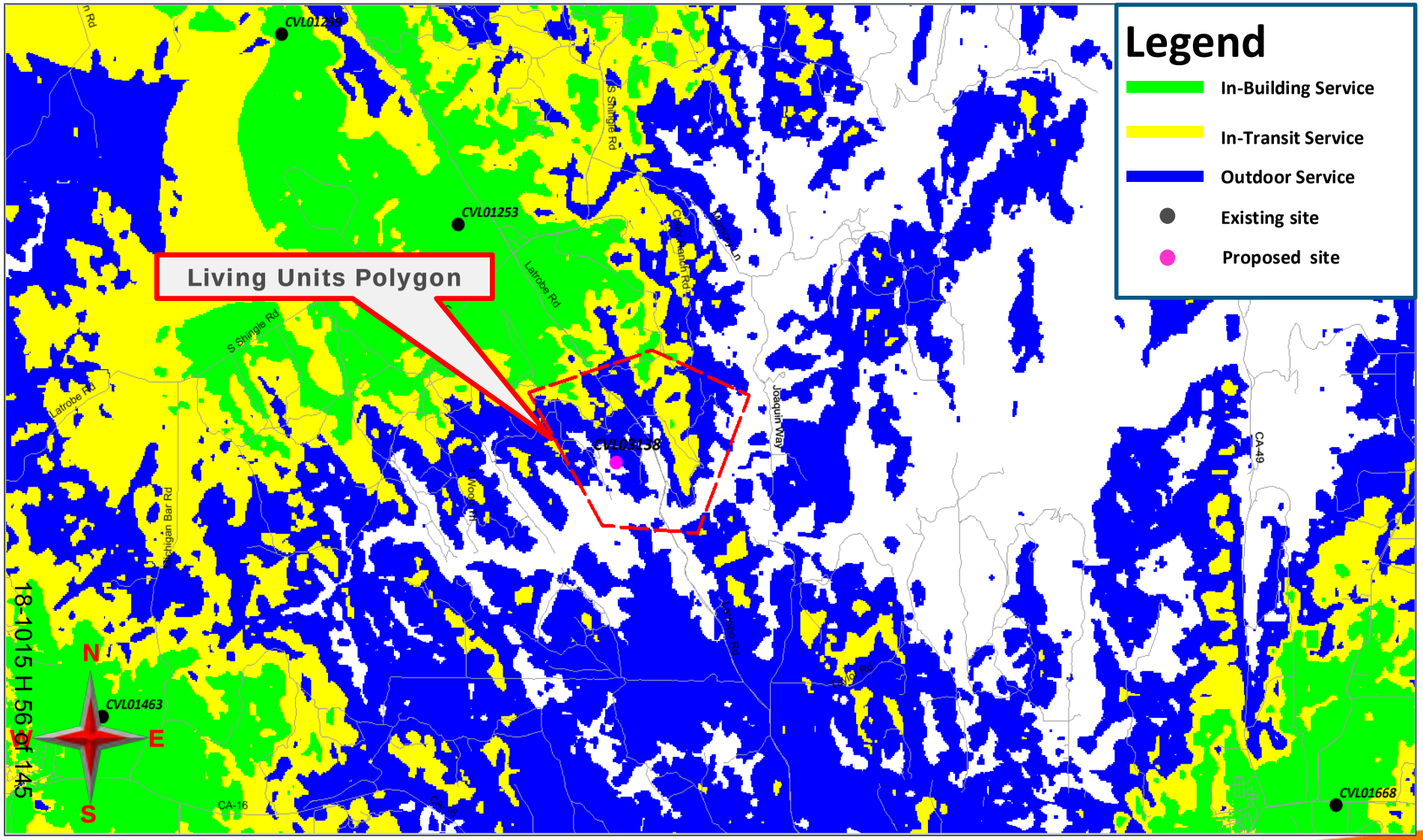
Existing LTE 700 Coverage



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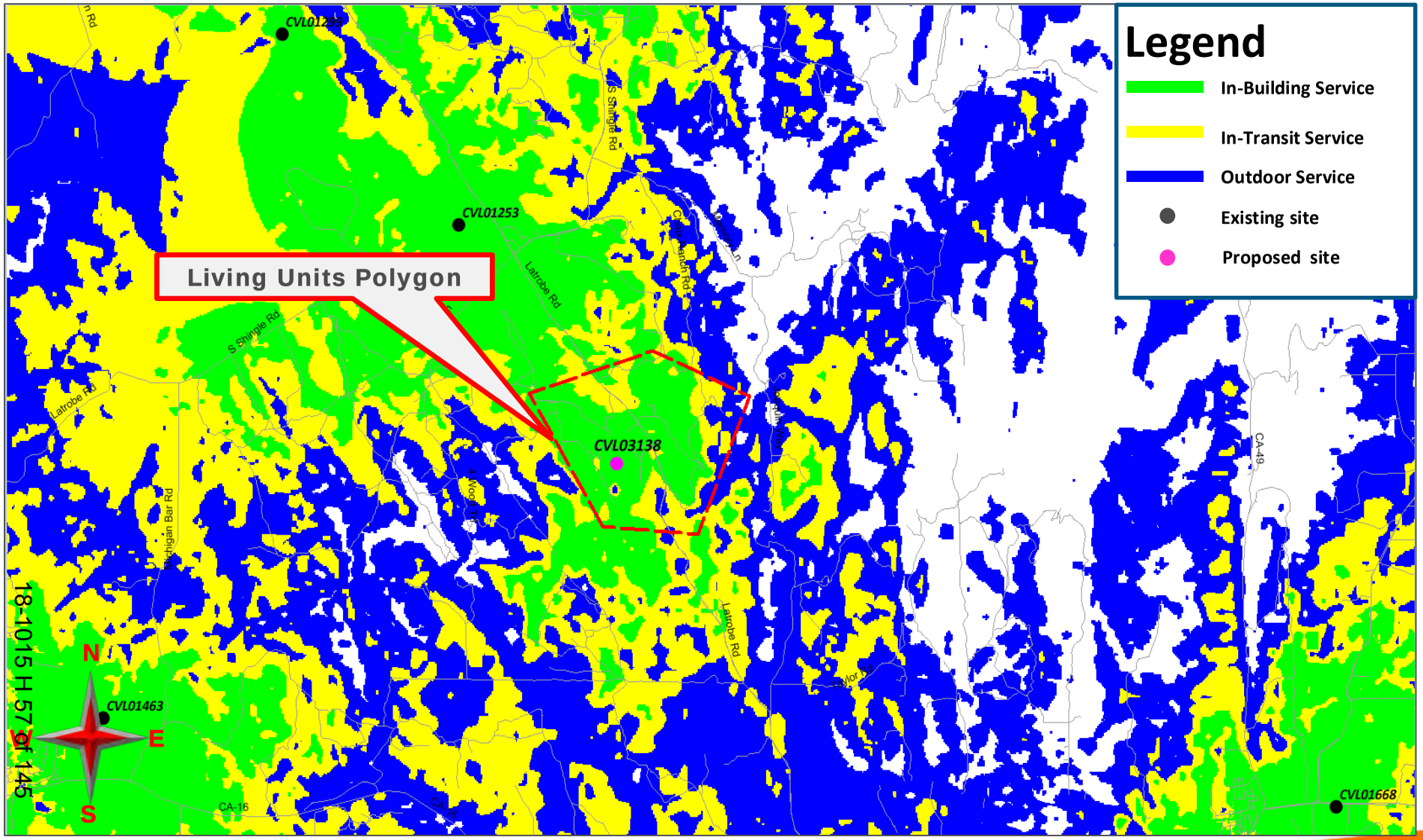
Existing LTE 700 Coverage With CVL03138 @ RC – 130ft Supports 116 LU's



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Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name:	**Latrobe**	**Site Structure Type:**	**Broadleaf Pole**
Address:	**7160 Dragon Point Road**	**Latitude:**	**38.529186**
	Shingle Springs, California	**Longitude:**	**-120.963094**
Report Date:	**June 19, 2017**	**Project:**	**New Build**

General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed Latrobe site located at 7160 Dragon Point Road, Shingle Springs, 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. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

	Limits for General Population/ Uncontrolled Exposure		***Limits for Occupational/ Controlled Exposure***	
Frequency (MHz)	**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 antennas
- Install nine (9) new RRUS-11
- Install nine (9) new RRUS-32

The antennas will be mounted on a new 143-foot broadleaf pole with centerlines at 120 and 130 feet above ground level. The antennas will be oriented toward 60, 300 and 180 degrees. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 17,359 Watts. Other appurtenances such as GPS antennas, 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 0.4150% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.1515% of the FCC General Population 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 compound gate. RF alerting signage (Caution) should be posted at the base of the proposed tower to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.

Figure 1: Antenna Locations

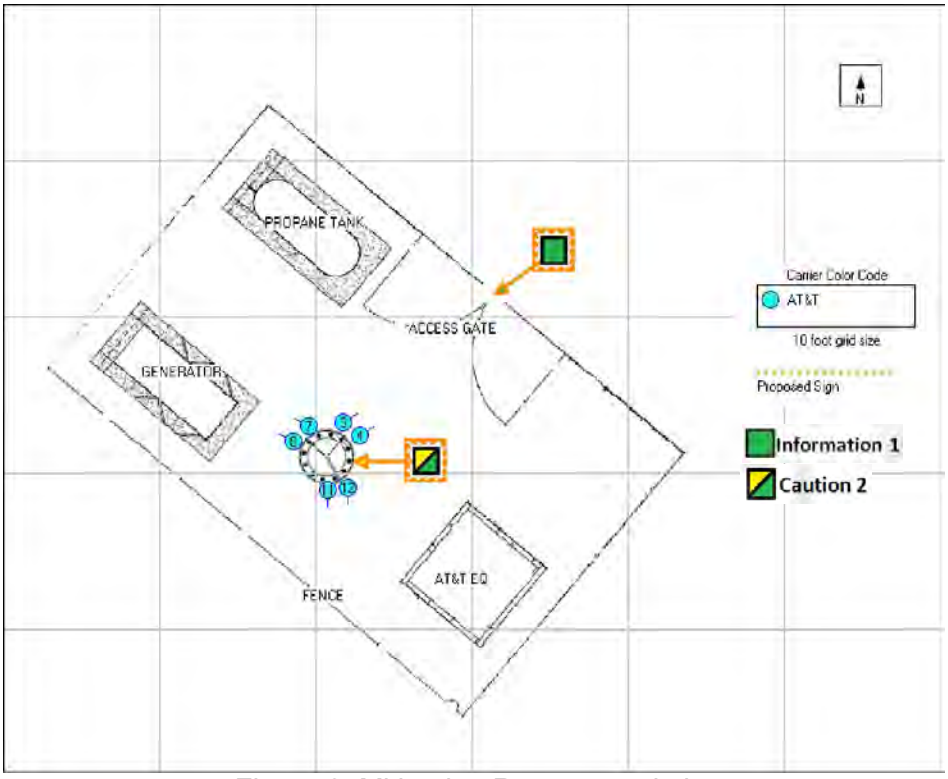


Figure 2: Mitigation Recommendations

Compliance Statement

Based on information provided by AT&T Mobility and predictive modeling, the installation proposed by AT&T Mobility at 7160 Dragon Point Road, Shingle Springs, 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 tower to authorized climbers that have completed RF safety training is required for Occupational environment compliance.

Certification

I, Steven N. Baier-Anderson, 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.

Marvair DC Free Air HVAC Unit with 48 VDC Evaporator Fan Motor, 100% Free Cooling and CoolLinks™ Controller

Marvair® AIRXCEL™, Inc.
ISO 9001:2008 REGISTERED COMPANY

Models ASDCA36-42-48-60-72

PRELIMINARY

General Description

The Marvair® ComPac® II air conditioners are designed to cool telecommunications shelters where the high internal heat load requires year round cooling-even when ambient temperatures are below 60°F (15°C). To provide cooling during a wide range of ambient conditions, the ASDCA air conditioners have the necessary controls and components for year round cooling. The unit uses the non-ozone depleting R-410A refrigerant.

ASDCA36

DC power provides emergency cooling/ventilation

Should there be loss of power to the site, the Marvair DC Free Air unit will continue to cool/ventilate the site by utilizing DC power to introduce outside air into the shelter for free cooling. The DC Free Air unit will continue to ventilate the site and extend the run time of the equipment until battery power is exhausted or, at the minimum, owner specified pull down of battery drain.

The ASDCA models operate on both AC and DC power. The compressor, condenser fan motor and electric heat operate on AC power, but the evaporator motors, the 100% free cooling economizer damper and the internal control board operate on DC power – an inverter is **not** required. Since these key components are all powered by 48 VDC – the same 48 VDC power used by the shelter's radios- they are always operational.

The 48 VDC power supply connects to an internal DC breaker. From this breaker, power is supplied to the DC indoor blower and control board. A 48 VDC to 24 VDC converter powers the 100% DC free cooling damper.

Free Cooling with the Marvair 100% Full flow Economizer

When the outside air is cool and dry, the economizer damper opens and draws in filtered, outside air to cool the shelter. The Marvair 100% full flow economizer means the same CFM of outside air is brought into the shelter as the rated air flow of the unit. The innovative design of the full flow economizer assembly also allows outside air to exit the building – pressure relief- when the full flow economizer is operating. This design eliminates the need for additional, costly penetrations in the shelter.

Free cooling provides temperature control, energy savings, and increased reliability by decreasing the operating hours of the compressor and the condenser fan. To insure proper operation and optimum performance, all economizers are non-removable, factory installed and tested.

CoolLinks™ PLC controller

The Siemens PLC-based CoolLinks controller sequences the operation of the two Marvair ComPac II units to ensure the most energy-efficient conditioning of the shelter space and the most balanced use of the conditioning equipment. The CoolLinks system determines the need to cool or heat the shelter based on an indoor temperature sensor and outside temperature/humidity sensor connected directly to the controller. When cooling or heating is required, the controller selects the unit that was not running in the previous cooling/heating cycle. This lead/lag operation ensures that each unit receives equal runtime and therefore extends the operating life of the units. In the event that one of the units is unavailable, for example, scheduled maintenance, the system will automatically select the active unit. Similarly, if the internal shelter temperature continues to rise/fall, the system will run both units.

For cooling requests, the CoolLinks controller first examines the external shelter conditions to establish whether DC Free Cooling is possible. If acceptable, the 100% full flow economizer damper on the lead unit is opened to 100%. The damper then modulates its position, regulated by the controller, to cool the shelter to the target set point. During extreme cold outdoor temperatures this prevents “shocking” the equipment in the shelter.

If DC Free Cooling is active on one unit and the internal temperature continues to rise, DC Free Cooling will then be activated on the second unit. Should the temperature continue to rise, the DC Free Cooling will be disabled on both units, both economizer dampers will be closed, and mechanical cooling activated on the lead unit. The control scheme allows the CoolLinks controller to make as efficient use of the external air as possible to minimize HVAC power consumption.

The CoolLinks controller communicates with the Marvair air conditioners over Ethernet. Should communications between the controller and one of the units fail, the unit will continue to run in stand-alone mode and cool to a mixed-air set point of 55°F (12.8°C). Whenever communications are restored, the CoolLinks controller will assume control of the air conditioner. An Ethernet connection is also provided for a SNMP interface through which the Network Operations Center can receive traps (alarms), monitor/change cooling and heating set points, and monitor HVAC unit and system operational parameters.

Air Conditioner Alarms and Lockouts

Each air conditioner is monitored over Ethernet and if a problem is detected, an alarm is generated. The alarm is displayed on the CoolLinks PLC in the shelter **and** sent via SNMP trap to the network operations center.

- High Pressure Alarm – the refrigerant pressure has exceeded the set point pressure *once* in a cooling cycle. The air conditioner will continue to operate, but notification is sent that there is a high pressure fault.
- High Pressure Lockout Alarm - the refrigerant pressure has exceeded the set point pressure *twice* in a cooling cycle. The air conditioner will shut down and notification will be sent that there is a high pressure lockout.
- Low Pressure Alarm – the refrigerant pressure has dropped below the set point pressure *once* in a cooling cycle. The air conditioner will continue to operate, but notification is sent that there is a low pressure fault.
- Low Pressure Lockout Alarm - the refrigerant pressure has dropped below the set point pressure *twice* in a cooling cycle. The air conditioner will shut down and notification will be sent that there is a low pressure lockout.
- Damper Alarm – if the 100% full flow damper does not open when required, an alarm notification is sent that the damper is not open.
- Dirty Filter Alarm – a switch monitors the pressure on either side of the filter. If the differential pressure exceeds the set point pressure, an alarm notification is sent that there is not sufficient air flow through the filter.
- Communications Alarm – a signal is sent if there is a loss of communication between the air conditioner and the CoolLinks controller.

Shelter & System Alarms

- In addition to the HVAC alarms, the CooLinks controller also provides Shelter and System alarms. The alarm is displayed on the CoolLinks PLC in the shelter **and** also sent via SNMP trap to the network operations center.
- First Stage High Temperature Alarm – Inside temperature above 85°F (29.4°C).
- Second Stage High Temperature Alarm – Inside temperature above 90°F (32.2°C).
- Low Temperature Alarm - Inside temperature is below 45°F (7.2°C).
- Landline Power Alarm – A loss of landline power.
- Smoke Alarm - If the smoke sensor input to the CoolLinks system is active, the Compressor, Heater, and Indoor Blower Motor on both HVAC units will be shut down and the damper will closed completely. This will stop air flow within the shelter.
- Hydrogen Detector Alarm- If the hydrogen sensor input to the CoolLinks system is active, the damper(s) on units that are not currently in mechanically cooling will be fully opened and the Indoor Blower Motor(s) will be turned on. This will expel noxious gases and introduce outside air into the shelter. If one unit is in mechanical cooling, it will continue to run. The other air conditioner will turn on and operate in the emergency ventilation mode.
- Generator Operation Alarm - If the generator running input to the CoolLinks system is active, only one HVAC unit will be permitted to run in mechanical cooling. As the generator is typically sized to run only one HVAC unit, this ensures that the generator load is not exceeded.

Remote Access Data Points

Through the Ethernet connection, the network operations center can monitor and change various data points in the HVAC system and the shelter.

Data Points which can be monitored **and** changed:

- First Stage Cooling Set Point Temperature
- Second Stage Cooling Set Point Differential Temperature
- First Stage Heating Set Point Temperature
- Second Stage Heating Set Point Differential Temperature

Data points which can only be monitored:

- Inside Temperature - Current
- Outside Temperature - Current
- Outside Humidity - Current
- Dew point - Current

- Inside Temperature - Average Last Hour
- Outside Temperature - Average Last Hour
- Outside Humidity - Average Last Hour
- Dew point - Average Last Hour

- Unit 1 & Unit 2 Mechanical Cooling Time - Last Hour
- Unit 1 & Unit 2 Mechanical Cooling Requests - Last Hour
- Unit 1 & Unit 2 DC Free Air Cooling Time - Last Hour
- Unit 1 & Unit 2 DC Free Air Cooling Requests - Last Hour
- Unit 1 & Unit 2 Heating Time - Last Hour
- Unit 1 & Unit 2 Heating Requests - Last Hour

Standard Features

Designed for Operation in Low Ambient Conditions

- Low ambient control cycles condenser fan to maintain proper refrigerant pressures. Allows operation in mechanical cooling (compressor) down to 0ºF (-18ºC). Note: low temperature operation is affected by ambient conditions, e.g. wind and humidity.
- Three minute by-pass of the low pressure switch for start-up of compressor when outdoor temperatures are below 55°F (13°C).
- Factory built-in economizer.

High Efficiency

- High efficiency compressor.
- Lanced fins standard on all evaporator and condenser coils.

Built-in Reliability

- High pressure switch and low pressure switch with lockout protects refrigerant circuit.
- Adjustable .03 to ten minute delay on make for short cycle protection.

Ease of Installation

- Sloped top with flashing eliminates need of rain hood.
- Built-in mounting flanges facilitate installation and minimize chance of water leaks.
- Supply and return openings exactly match previous models.
- Factory installed disconnect on all units.
- Single Point Power Entry complies with latest edition of U.L. Standard 1995.

Rugged Construction

- Copper tube, aluminum fin evaporator & condenser coils.
- Field or factory installed heaters on discharge side of evaporator coil (optional)
- Baked on neutral beige finish over galvanneal steel for maximum cabinet life. (Other finishes are available.)

Ease of Service

- Service access valves are standard.
- Standard 2" (50 mm) pleated filter with a MERV rating of 8 changeable from outside.
- All major components are readily accessible.
- Front Control Panel allows easy access and complies with NEC clearance codes on redundant side-by-side systems.
- LEDs indicate operational status and fault conditions.
- Foiled backed insulation on the indoor air path.
- A minimum position potentiometer that can be adjusted to prevent the economizer damper from closing completely. This control ensures that whenever the evaporator fan is operating, fresh air is being introduced into the building.

Kim: are these statements valid?

Grilles

For ASDCA36

Supply Grille:
28" x 8" (711mm x 203mm)..... P/N 80675

Return Grille:
20" x 12" (508mm x 356mm)..... P/N 80678

For ASDCA42-48-60-72

Supply Grille:
30" x 10" (762mm x 254mm)..... P/N 80676

Return Grille:
30" x 16" (762mm x 406mm)..... P/N 80679

Factory Installed Accessories

Phase Monitor - Monitors 3Ø power supply and will turn the air conditioner off if power supply is not phased properly. Not required on 1Ø units.

Compressor Sound Jacket - To reduce sound of compressor.

Right & Left Side Compressor Configuration – The air conditioners can be built with the compressor on the opposite side to facilitate service access when two units are installed side by side. In the 36, the standard location for the compressor is on the right hand side. In the 42-48-60, the standard location for the compressor is on the left hand side. In the 72, the compressor is accessed from the front of the unit and an opposing configuration is not required.

Hard Start Kit - Used on single phase equipment to give the compressor higher starting torque under low voltage conditions. (Field installed only) (Note: Not recommended for use on scroll compressors.)

Options

Coastal Environment Package – Recommended for units to be installed near an ocean or on seacoast. Includes corrosion resistant fasteners, sealed or partially sealed condenser fan motor, protective coating applied to all exposed internal copper and metal in the in the condenser section and an impregnated polyurethane on the condenser coil and fan blades. See Coastal Environmental Technical Bulletin for more details.

Protective Coil Coatings - Either the condenser or evaporator coil can be coated, however, coating of the evaporator coil is not common. For harsh conditions, e.g., power plants, paper mills or sites were the unit will be exposed to salt water, the coil should be coated. Note: Cooling capacity may be reduced by up to 5% on units with coated coils.

Model Identification

MODEL # - ASDCA48ACA050C-A2-100-VAR

ASDC — Air Source Direct Current

A — Refrigerant: A = R410A

●● — Nominal Cooling: 36 = 36,000 BTUH; 42 = 42,000 BTUH; 48 = 48,000 BTUH; 60 = 60,000 BTUH; 72 = 72,000 BTUH

AC — AC = Air Conditioner

●● — Power Supply: A = 208-230V,1ø,60Hz; C = 208-230V,3ø,60Hz

●●● — Electric Heat – kW: 000 = No Heat; 050 = 5 kW; 060 = 6 kW

C — C = ComPac® II

● — Special Option Code: U = Scroll Compressor; K = Coastal Package; O = Opposite side compressor

A2 — A2 = Internal Disconnect

●●● — Cabinet Color: 100 = Beige; 200 = Gray

Electrical Characteristics - Compressor, Fan & Blower Motors

BASIC MODEL	COMPRESSOR			OUTDOOR FAN MOTOR				INDOOR BLOWER MOTORS				
	VOLTS / HZ / PH	RLA[1]	LRA[2]	VOLTS / HZ / PH	RPM[3]	FLA[4]	HP[5]	QTY	VDC[6]	RPM[3]	FLA[4]	HP[5]
ASDCA36ACA	208/230-60-1	14.7	84.0	208/230-60-1	1075	1.8	1/4	2	48	2070	4.4	1/6
ASDCA42ACA	208/230-60-1	15.7	84.0	208/230-60-1	825	2.8	1/3	2	48	1930	6.0	1/4
ASDCA48ACA	208/230-60-1	18.6	102.0	208/230-60-1	825	2.8	1/3	2	48	1930	6.0	1/4
ASDCA60ACA	208/230-60-1	23.0	130.0	208/230-60-1	825	2.8	1/3	2	48	1930	6.0	1/4
ASDCA72ACA	208/230-60-1	30.1	158.0	208/230-60-1	825	2.9	1/2	2	48	1930	6.0	1/4
ASDCA36ACC	208/230-60-3	13.2	88.0	208/230-60-1	1075	1.8	1/4	2	48	2070	4.4	1/6
ASDCA42ACC	208/230-60-3	13.6	83.1	208/230-60-1	825	2.8	1/3	2	48	1930	6.0	1/4
ASDCA48ACC	208/230-60-3	13.7	83.1	208/230-60-1	825	2.8	1/3	2	48	1930	6.0	1/4
ASDCA60ACC	208/230-60-3	15.6	111.0	208/230-60-1	825	2.8	1/3	2	48	1930	6.0	1/4
ASDCA72ACC	208/230-60-3	22.4	149.0	208/230-60-1	825	2.9	1/2	2	48	1930	6.0	1/4

[1]RLA = Rated Load Amps [2]LRA = Locked Rotor Amps [3]RPM = Revolutions per Minute [4]FLA = Full Load Amps [5]HP = Horsepower [6]VDC = Volts, DC

Summary Electrical Ratings (Wire and Circuit Breaker Sizing)

ELECTRIC HEAT		000 = None		050 = 5 kw		060 = 6 kw	
BASIC MODEL	VOLTAGE PHASE / HZ	SPPE[3]		SPPE[3]		SPPE[3]	
		MCA[1]	MFS[2]	MCA[1]	MFS[2]	MCA[1]	MFS[2]
ASDCA36ACA	208/230-1-60	24.2	40	26.0	40		
ASDCA42ACA	208/230-1-60	27.6	45	27.6	45		
ASDCA48ACA	208/230-1-60	30.1	50	30.1	50		
ASDCA60ACA	208/230-1-60	35.6	60	35.6	60		
ASDCA72ACA	208/230-1-60	40.5	60	40.5	60		
ASDCA36ACC	208/230-3-60	18.3	30			18.3	30
ASDCA42ACC	208/230-3-60	19.8	30			19.8	30
ASDCA48ACC	208/230-3-60	19.9	30			19.9	30
ASDCA60ACC	208/230-3-60	22.3	35			22.3	35
ASDCA72ACC	208/230-3-60	30.9	50			30.9	50

[1]MCA = Minimum Circuit Ampacity (Wiring Size Amps) [2]MFS = Maximum Fuse Size [3]SPPE = Single Point Power Entry

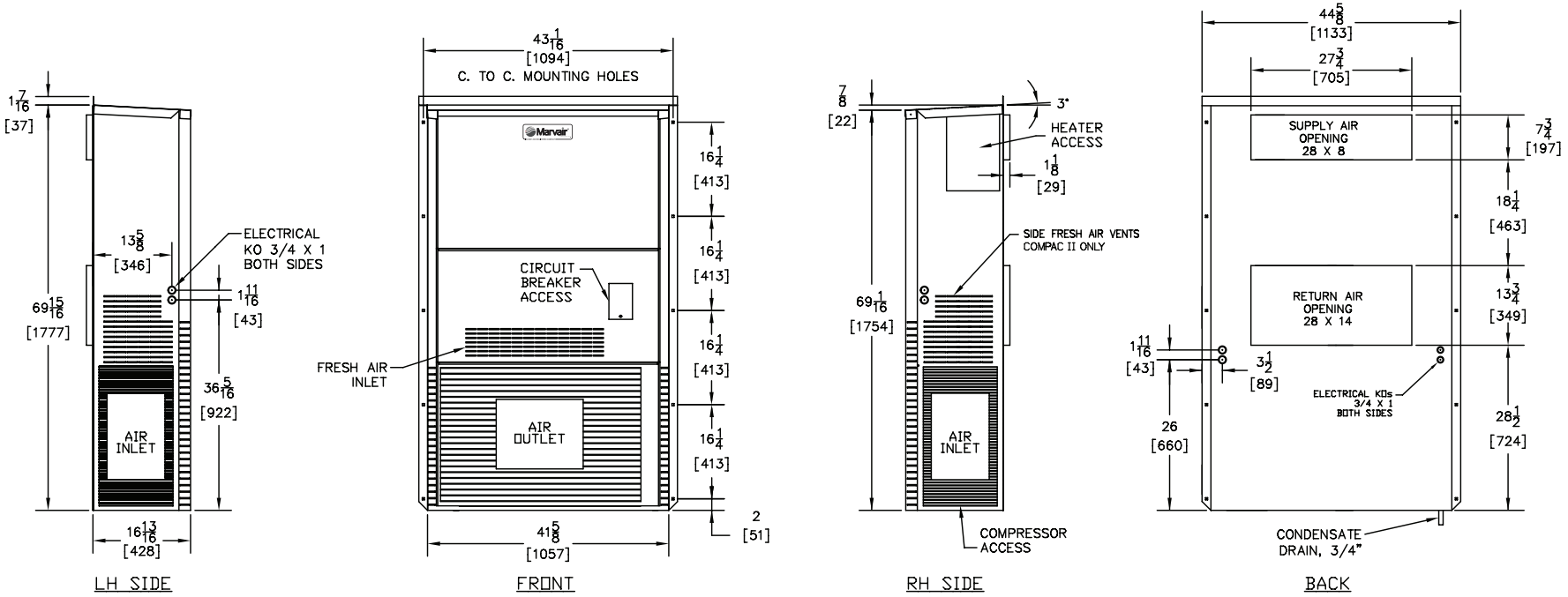
MCA & MFS are calculated at 230 volts on the ACA & ACC models. This chart should only be used as a guideline for estimating conductor size and overcurrent protection. For the requirements of specific units, always refer to the data label on the unit.

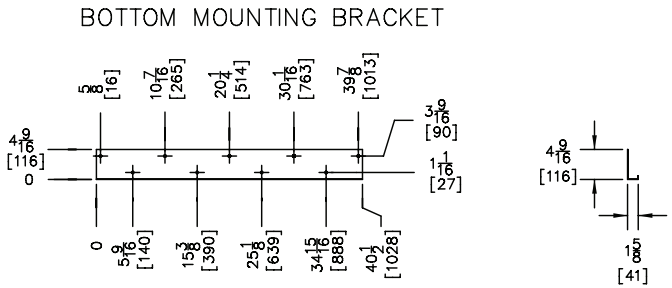
Unit Load Amps

BASIC MODEL NUMBER	VOLTAGE PHASE / HZ	CURRENT LOAD (MOTORS)		LOAD OF RESISTIVE HEATING - ELEMENTS ONLY (AMPS) TOTAL MAXIMUM HEATING AMPS (VAC) *ALL HEATING ELEMENTS ARE ON A SEPARATE CIRCUIT*	
		Compressor & Outdoor Fan	Indoor Blower		
		VAC Amps	DC Amps	05 kW	06 kW
ASDCA36ACA	208/230-1-60	19.7	8.8	20.8	
ASDCA42ACA	208/230-1-60	22.6	12.0	20.8	
ASDCA48ACA	208/230-1-60	24.6	12.0	20.8	
ASDCA60ACA	208/230-1-60	29.0	12.0	20.8	
ASDCA72ACA	208/230-1-60	33.0	12.0	20.8	
ASDCA36ACC	208/230-3-60	15.0	8.8		14.4
ASDCA42ACC	208/230-3-60	16.4	12.0		14.4
ASDCA48ACC	208/230-3-60	16.5	12.0		14.4
ASDCA60ACC	208/230-3-60	18.4	12.0		14.4
ASDCA72ACC	208/230-3-60	25.3	12.0		14.4

Heating kW is rated at 240 volts Total heating and cooling amps includes all VAC motors.
Loads are not equally balanced on each phase and values shown are maximum phase loads. Three phase models contain single phase motor loads.
Derate heater output by 25% for operation at 208 volts.

Dimensional Data - ASDCA36





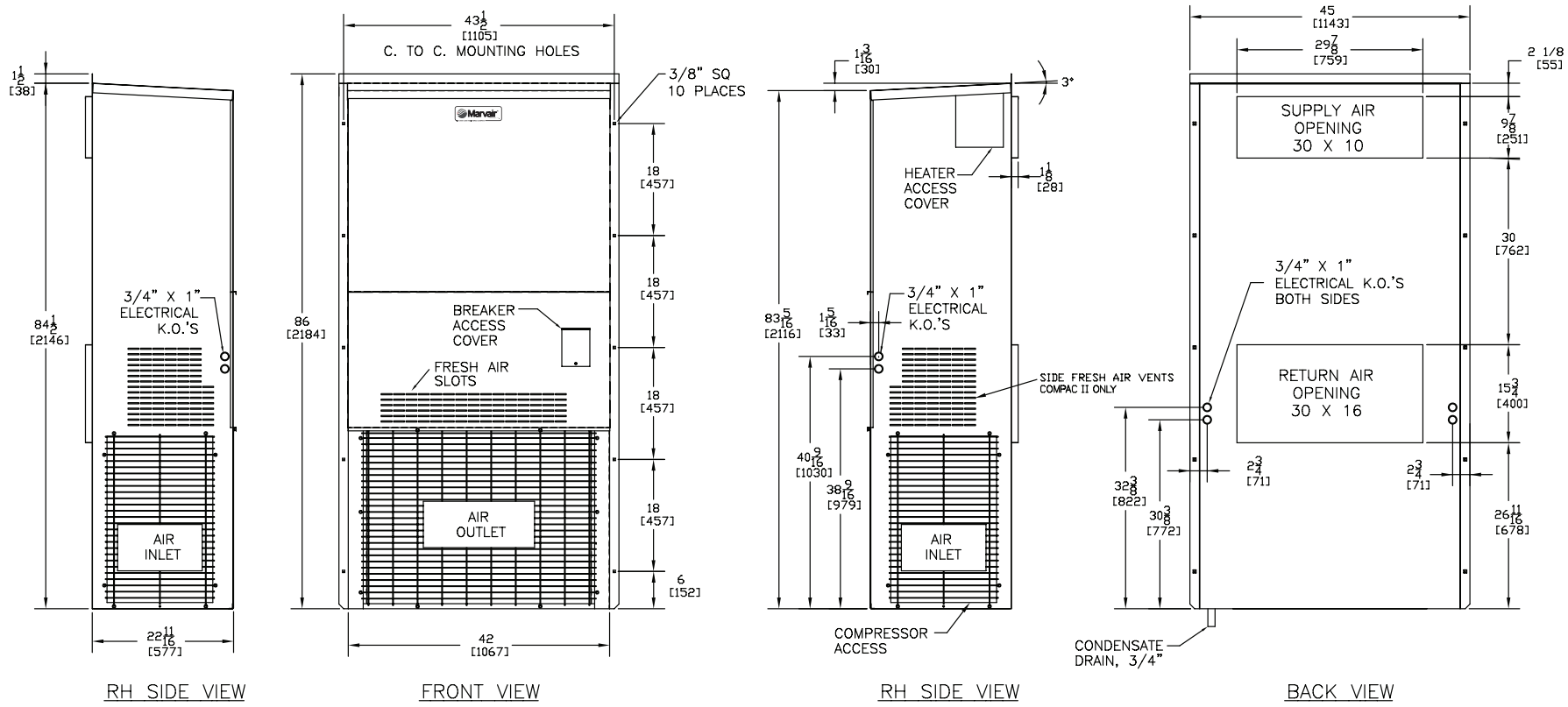
Shipping Weight (pounds/kilograms)

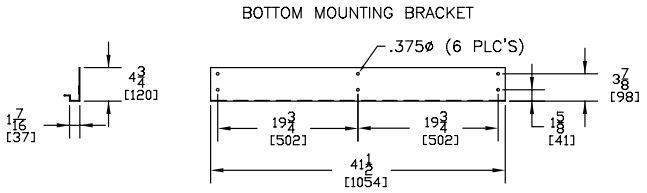
ASDCA36	LBS/KGS
COMPAC II	410/186.4

Filter Size

ASDCA36	INCHES	MILLIMETERS	PART NUMBER	FILTERS PER UNIT	MERV RATING
RETURN AIR FILTER	30 x 16 x 2	762 x 406 x 51	92486	1	8

Dimensional Data - ASDCA42-48-60





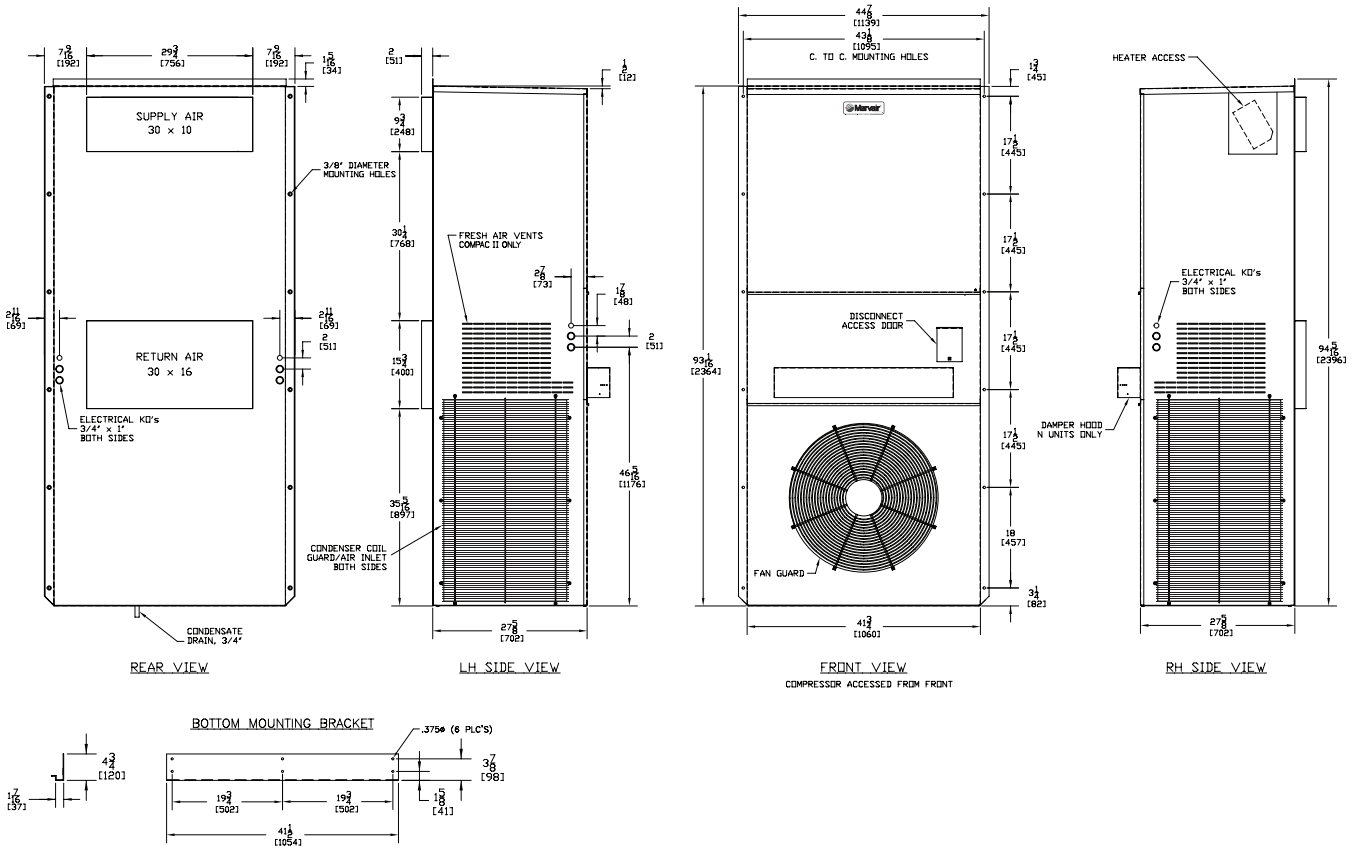
Shipping Weight (pounds/kilograms)

ASDCA42-48-60	LBS/KGS
COMPAC II	590/268

Filter Size

ASDCA42-48-60	INCHES	MILLIMETERS	PART NUMBER	FILTERS PER UNIT	MERV RATING
RETURN AIR FILTER	36½ x 22 x 2	927 x 559 x 51	80162	1	8

Dimensional Data - ASDCA72



Shipping Weight (pounds/kilograms)

ASDCA72	LBS/KGS
COMPAC II	640/291

Filter Size

ASDCA72	INCHES	MILLIMETERS	PART NUMBER	FILTERS PER UNIT	MERV RATING
RETURN AIR FILTER	18 x 24 x 2	457 x 610 x 51	~~TBD~~	2	8

Please consult the Marvair® website at www.marvair.com for the latest product literature. Detailed dimensional data is 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.

Marvair® AIRXCEL®, Inc.
ISO 9001:2008 REGISTERED COMPANY
P.O. Box 400 • Cordele, GA 31010
156 Seedling Drive • Cordele, GA 31015
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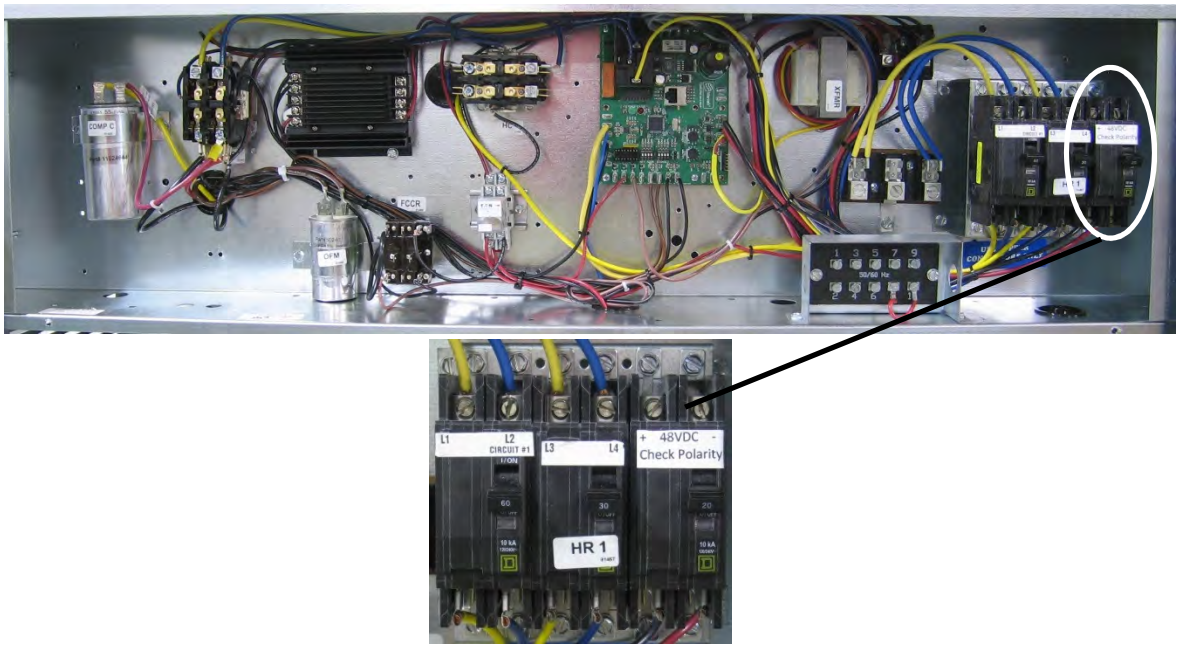
Email: marvair@airxcel.com • Internet: www.marvair.com

Supplement to the ComPac Product Manual for the ASDC air conditioners

This supplement to the ComPac Product Manual describes the 48 VDC wiring, the connection of the Ethernet cable (page 2) and the CoolLinks™ Operator Interface Instructions (page 3) for the ASDCA air conditioners. These air conditioners require a 48 Volt DC power to operate the evaporator air movers and the free cooling damper motor.

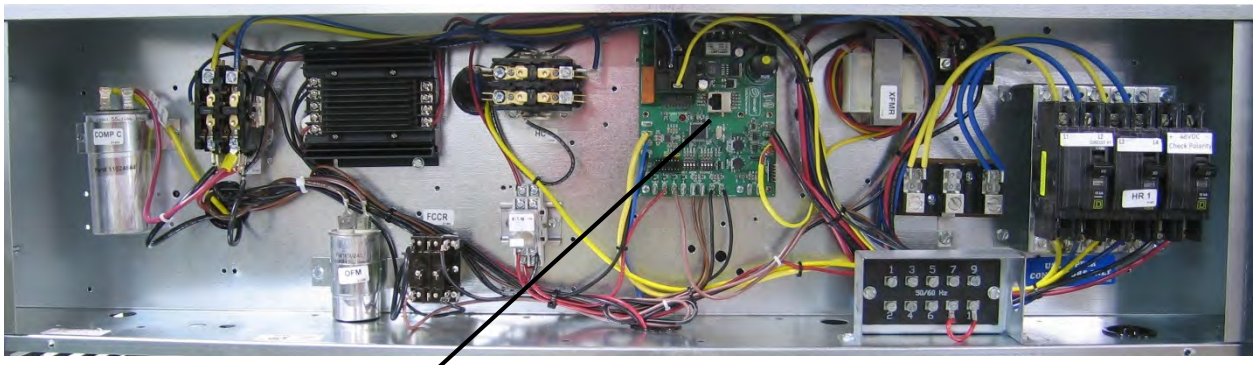
48 VDC wiring

1. If the air conditioners are powered, remove AC **and** DC power to the air conditioners by switching the breakers **in the shelter** to the OFF position.
2. Size a 2 conductor wire cable per NEC standard taking into account the ampacity of the DC circuit listed on the rating plate and the location of the power supply. Connect the properly sized cable between a DC breaker in the shelter and the DC breaker in the air conditioner. The DC breaker in the air conditioner is located on the right side of the bank of breakers.
3. Turn on the DC breaker in the shelter.
4. Verify the polarity and the voltage to make sure the polarity is correct and that there is 48 VDC at the breaker in the air conditioner. If the polarity is not correct, switch the wires.
5. Turn on the DC breaker in the air conditioner.
   (See photos on following page.)



Connection of PLC controller board in shelter to CoolLinks™ board in the air conditioner

Route a standard Cat 5e Ethernet cable from the PC board in the air conditioner to the PLC controller in the shelter. If the cable is routed through the air stream, it must be plenum rated. When the PLC is configured, the air conditioners will be designated as AC #1 and AC#2.



CoolLinks Ethernet jack

Operator Interface Instructions

System Status

The main screen displays the status of the Marvair CoolLinks system and the two Marvair HVAC units. Standing inside the shelter facing the HVAC return air vents, unit 1 is the left-hand unit and unit 2 is the right-hand unit. The fields on the status screen are as follows:

Indoor Temperature:	Indoor temperature from the temperature sensor mounted on the wall between the HVAC return air grilles. This sensor controls the enabling/disabling of the cooling/heating.
IBM Pushbutton:	Indicates the status of the Indoor Blower Motor (IBM) as Running or Stopped. If the blower motor is not under automatic control, pressing the pushbutton will turn the motor on and off. Press once to turn on and press again to turn off. The motor is under automatic control whenever the HVAC unit is the lead unit, during cooling post-purge, free-air operation, and emergency ventilation.
Unit Status Panel:	Indicates the status of the HVAC unit as follows: • Lead Yes: unit is lead unit, No: unit is lag unit • Cool Yes: unit is cooling, No: unit is not cooling • Heat Yes: unit is heating, No: unit is not heating • Filter Ok: filter is good, Maint: filter is blocked • Comm Yes: PLC comms active, No: PLC comms fault
Lead Swap Pushbutton:	Swap the lead and lag unit. Note that if the lag unit is in lockout or has a comms fault, the system will not swap. If the lead unit experiences a lockout or

comms failure, the system will automatically swap to the lag unit.

Comfort Mode Pushbutton: Drop the first-stage cooling set point to 75°F to allow a service technician to work comfortably inside the shelter. After one hour the set point will return to its previous value. Comfort mode is also cancelled if the technician enters a new first-stage cooling set point.

Reset Lockout Pushbutton: Resets the lockout condition on whichever unit is in lockout. Note that a call for cooling must be active before the lockout can be reset.

Outdoor Air: Outside air temperature (°F).

Humidity: Outside air relative humidity (%).

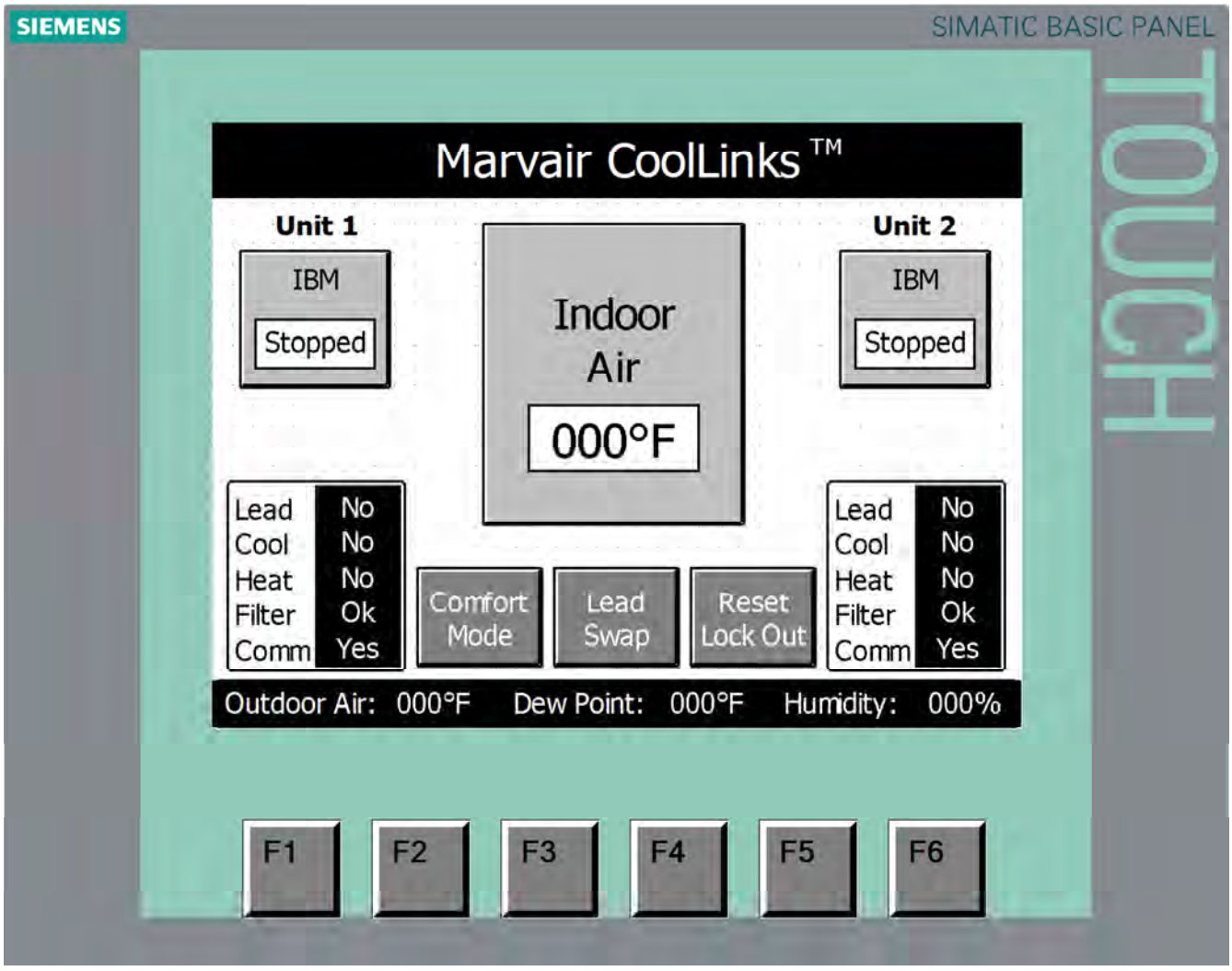
Dew Point: Dew point temperature (°F). When the calculated dew point (based on outside air temperature and relative humidity) is below the maximum dew point temperature and the free-air enable temperature, and the outside air temperature is below the indoor air temperature, then enable free-air cooling.

Alarm Message: Active unit alarms are displayed in the alarm message window between the IBM (Indoor blower Motor) pushbutton and the unit status panel. If multiple alarms are present the system scrolls through the active alarms with each alarm displayed for five seconds. If no alarms are present, the message window is blank. Thirteen possible alarm messages may be displayed:

- High Pressure Switch Alarm
- Low Pressure Switch Alarm
- High Pressure Switch Lockout Alarm
- Low Pressure Switch Lockout Alarm
- 1st High Indoor Temperature Alarm (> 85°F)

- 2nd High Indoor Temperature Alarm (> 90°F)
- Low Indoor Temperature Alarm (< 45°F)
- Landline Power Alarm
- Damper Alarm
- Smoke Alarm
- Generator Running
- Hydrogen Alarm
- Communications Alarm

The main screen with each of the operator/display fields is presented below. Note that the six function keys at the bottom of the screen are not currently assigned and have no effect on the operation of the Marvair CoolLinks system.



Changing Set Points

Set points control the cooling and heating operation of the Marvair CoolLinks system. Basically, there are two groups of set points, cooling first and second stage set points, and heating first and second stage set points. The minimum set point for cooling is 50℉ and the maximum set point for heating is 90℉. To access these set points, simply touch the top or bottom of the Indoor Temperature display. This will then enable the set point control panel. If a new set point value is not entered within ten seconds, the display will revert back to the Indoor Temperature display. From the set point control panel, alter the set points as follows:

Cooling First Stage:
Press the Cooling push-button then press the 1st Stage push-button. Both push buttons will turn dark gray with white text and the current cooling first-stage set point value will be displayed. Next, press the set point value to display the numeric entry screen and enter the desired set point. The system will now enable cooling whenever the indoor temperature is 1° F above the set point and disable cooling when the indoor temperature drops to 2° F below the set point.

Cooling Second Stage:
Press the Cooling push-button then press the 2nd Stage push-button. Both push buttons will turn dark gray with white text and the current cooling second-stage set point value will be displayed. Next, press the set point value to display the numeric entry screen and enter the differential set point. The system will now enable second-stage cooling whenever the indoor temperature is 1° F higher than the first-stage cooling set point plus the second stage cooling differential and disable second-stage cooling when the indoor temperature drops to 2° F below the first-stage set point. It is strongly recommend that the second-stage cooling differential be set to a minimum of 5° F to allow the first-stage cooling time to operate fully and to prevent short-cycling of the second unit.

Cooling Example:

First-Stage Set Point: 78**°**F
Second-Stage Differential: 5**°**F

First-stage cooling will start when the indoor temperature reaches 79**°**F (set point + 1°F) and will stop when the indoor temperature reaches 76**°**F (set point – 2°F).

Second-stage cooling will start when the indoor temperature reaches 84**°**F (set point + 1°F + 5°F) and will stop when the indoor temperature reaches 76**°**F (set point – 2°F).

Note that once first-stage cooling is enabled, the unit will run for at least **five minutes** even if the indoor temperature reaches the disable temperature. This is to prevent short-cycling of the unit and to allow the compressor sufficient time to remove moisture from the air as well cool the shelter.

Heating First Stage:

Press the Heating push-button then press the 1st Stage push-button. Both push buttons will turn dark gray with white text and the current heating first-stage set point value will be displayed. Next, press the set point value to display the numeric entry screen and enter the desired set point. The system will now enable heating whenever the indoor temperature is 1°F below the set point and disable heating when the indoor temperature rises to 1° F above the set point.

Heating Second Stage:

Press the Heating push-button then press the 2nd Stage push-button. Both push buttons will turn dark gray with white text and the current heating second-stage set point value will be displayed. Next, press the set point value to display the numeric entry screen and enter the differential set point. The system will now enable second-stage heating whenever the indoor temperature is 1° F lower than the first-stage heating set point minus the second stage heating differential and disable second-stage heating when the indoor temperature rises to 1° F above the first-stage set point. It is strongly recommend that the second-stage heating differential be set to a minimum of

two degrees F to allow the first-stage heating time to operate fully and to prevent short-cycling of the second unit.

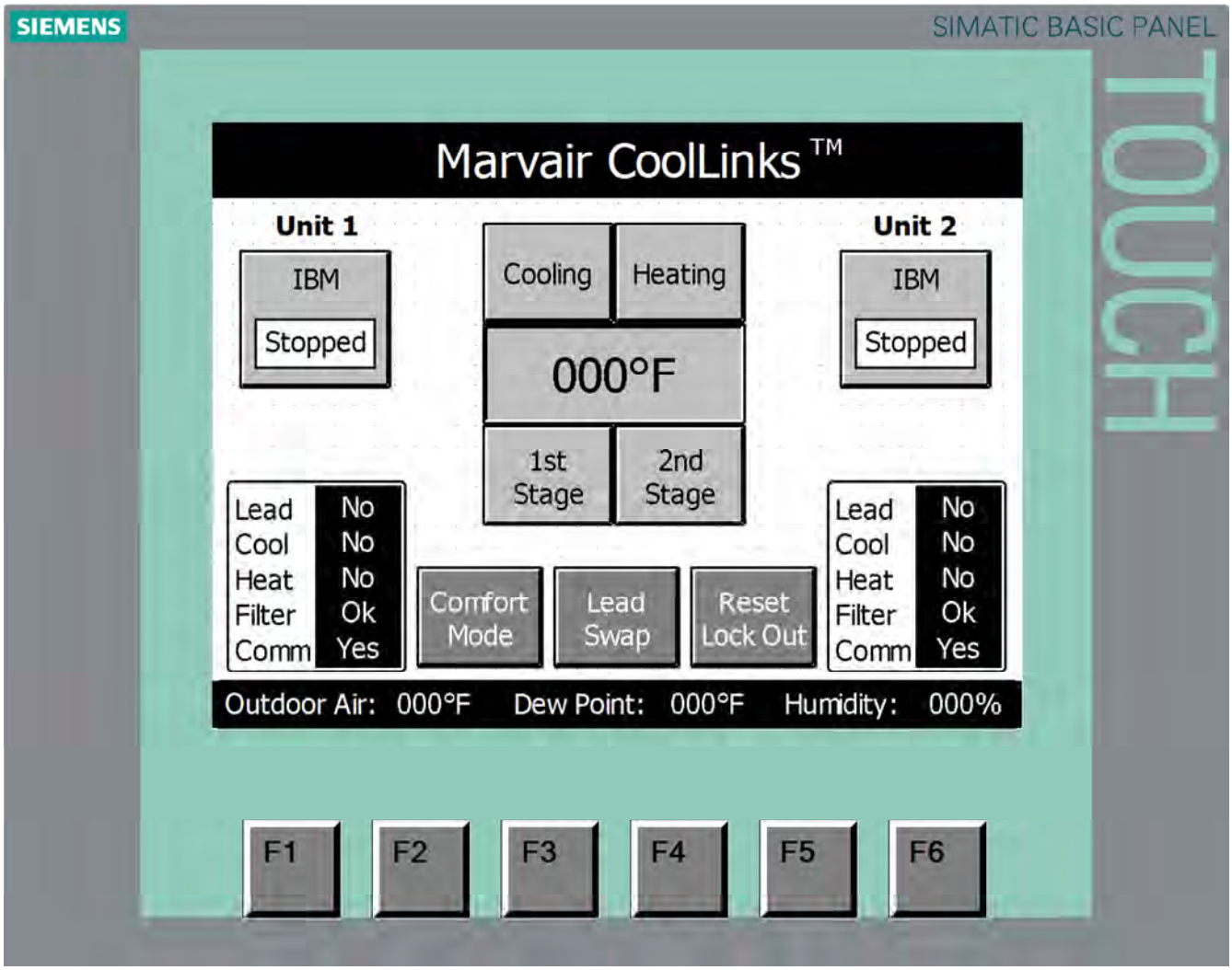
Heating Example:

First-Stage Set Point: 60**°**F
Second-Stage Differential: 2**°**F

First-stage heating will start when the indoor temperature reaches 59**°**F (set point – 1°F) and will stop when the indoor temperature reaches 61**°**F (set point + 1°F).

Second-stage heating will start when the indoor temperature reaches 57**°**F (set point – 1° - 2°F) and will stop when the indoor temperature reaches 61**°**F (set point + 1°F).

The main screen with the set point control panel is presented below. Note that if the cooling and heating temperature set points overlap, the system will only allow cooling to be active. As with the status screen, the six function keys at the bottom of the screen are not currently assigned and have no effect on the operation of the Marvair CoolLinks system.



DC Free-Air Cooling

When the outside temperature and humidity are below acceptable limits, mechanical cooling is disabled and outside air is introduced to cool the shelter. The position of the damper is first opened to 100% then regulated to maintain a mixed air temperature of 55°F. This set point is user-selectable on the CoolLinks HVAC board for 55°, 57°, 59°, or 61°F. Both the damper and the Indoor Blower Motor are powered by 48 VDC. Every twenty-four hours, the damper is opened to 25% to verify the operation of damper motor, damper fault switch, and damper actuator linkage.

Emergency Ventilation

The Marvair CoolLinks system will enable emergency ventilation if landline power is lost or if both HVAC units are in lockout. In this situation, the system will fully open the damper and run the Indoor Blower Motor on each HVAC unit. The system will also try to modulate the damper position to maintain a mixed air temperature of 55°F).

Smoke Detection

If the smoke sensor input to the CoolLinks system is active, the Compressor, Heater, and Indoor Blower Motor on both HVAC units will be shut down and the damper will be fully closed. This is to halt the flow of air within the shelter.

Hydrogen Detection

If the hydrogen sensor input to the CoolLinks system is active, the damper(s) on units that are not currently mechanically cooling will be fully opened and the Indoor Blower Motor(s) will be turned on. The intention here is to expel noxious gases and to introduce outside air into the shelter.

Generator Running

If the generator running input to the CoolLinks system is active, only one HVAC unit will be permitted to run mechanical cooling. As the generator is sized to run only one HVAC unit, this ensures that the generator load is not exceeded.

Note: When in generator run mode, the HVAC unit is **not** allowed to operate in the DC Free-Air Cooling mode. This prevents "wet stacking" of the generator because the engine would be running at a small percentage of its capacity.

GENERAC® | INDUSTRIAL POWER

EXHAUST EMISSIONS DATA

STATEMENT OF EXHAUST EMISSIONS
2016 SPARK-IGNITED GENERATORS
INDUSTRIAL SERIES

NON-SCAQMD												
Model	Engine	EPA Engine Family	Fuel	CATALYST Req'd	Comb Cat or Separate Cat	EPA Cert #	Grams/bhp-hr.			Rated RPM	BHP	Fuel Flow (lb/hr)
							THC	NOx	CO			
SG035	5.4	GGNXB05.42NN	NG	No	NR	GGNXB05.42NN-049	1.60	2.52	95.32	1800	82.10	36.91
SG035	5.4	GGNXB05.42NL	LPG	No	NR	GGNXB05.42NL-048	1.24	3.45	112.01	1800	82.30	34.60
SG050	5.4	GGNXB05.42NN	NG	No	NR	GGNXB05.42NN-049	1.60	2.52	95.32	1800	82.10	36.91
SG050	5.4	GGNXB05.42NL	LPG	No	NR	GGNXB05.42NL-048	1.24	3.45	112.01	1800	82.30	34.60
SG050	6.8	GGNXB06.82NL	LPG	No	NR	GGNXB06.82NL-010	1.86	2.67	172.30	1800	84.66	46.55

NR: Not Required

Refer to page 2 for definitions and advisory notes.

CALIFORNIA SCAQMD CERTIFIED												
Model	Engine	EPA Engine Family	Fuel	CATALYST Req'd	SCAQMD CEP #	EPA Cert #	Grams/bhp-hr.			Rated RPM	BHP	Fuel Flow (lb/hr)
							THC	NOx	CO			
SG035	5.4	GGNXB05.42L1	NG	Yes	530212	GGNXB05.42L1-017	0.38	0.22	0.64	1800	81.95	24.91
SG035	5.4	GGNXB05.42L2	LPG	Yes	530215	GGNXB05.42L2-018	0.04	0.10	0.70	1800	81.70	29.13
SG050	5.4	GGNXB05.42L1	NG	Yes	530212	GGNXB05.42L1-017	0.38	0.22	0.64	1800	81.95	24.91
SG050	5.4	GGNXB05.42L2	LPG	Yes	530215	GGNXB05.42L2-018	0.04	0.10	0.70	1800	81.70	29.13
SG050	6.8	GGNXB06.82L6	LPG	Yes	470347	GGNXB06.82L6-024	0.01	0.05	0.50	1800	85.92	34.14

Refer to page 2 for definitions and advisory notes.

EXHAUST EMISSIONS DATA

STATEMENT OF EXHAUST EMISSIONS 2016 SPARK-IGNITED GENERATORS

2016 EPA SPARK-IGNITED EXHAUST EMISSIONS DATA

Effective since 2009, the EPA has implemented exhaust emissions regulations on stationary spark-ignited (gaseous) engine generators for emergency applications. All Generac spark-ignited gensets, including SG, MG, QTA and QT series gensets, that are built with engines manufactured in 2009 and later meet the requirements of 40CFR part 60 subpart JJJJ and are EPA certified. These generator sets are labeled as EPA Certified with decals affixed to the engines' valve covers.

The attached documents summarize the general information relevant to EPA certification on these generator sets. This information can be used for submittal data and for permitting purposes, if required. These documents include the following information:

EPA Engine Family
The EPA Engine Family is assigned by the Manufacturer under EPA guidelines for certification purposes and appears on the EPA certificate.

Catalyst Required
Indicates whether an exhaust catalyst and Air/Fuel Ratio control system are required on the generator set to meet EPA certification requirements. Generally, units rated 80kW and smaller do not require a catalyst to meet EPA certification requirements. Please note that some units that do not require a catalyst to meet EPA requirements do need a catalyst if the California SCAQMD option is selected. Please see "California SCAQMD" below for additional information on this option.

Combination Catalyst or Separate Catalyst
SG and MG series generator sets typically utilize a single combination catalyst/silencer as part of meeting EPA certification requirements. Many QT and QTA series generator sets use the same engines as SG and MG series units, but have different exhaust configurations that require the use of conventional silencers with additional separate catalysts installed.

EPA Certificate Number
Upon certification by the EPA, a Certificate Number is assigned by the EPA.

Emissions Actuals - Grams/bhp-hr
Actual exhaust emission data for Total Hydrocarbons (THC), Nitrogen Oxides (NOx) and Carbon Monoxide (CO) that were submitted to EPA and are official data of record for certification. This data can be used for permitting if necessary. Values are expressed in grams per brake horsepower-hour; to convert to grams/kW-hr, multiply by 1.341. Please see advisory notes below for further information.

California Units, SCAQMD CEP Number
A separate low-emissions option is available on many Generac gaseous-fueled generator sets to comply with the more stringent South Coast Air Quality Management District requirements that are recognized in certain areas in California. Gensets that include this option are also EPA Certified.

General Advisory Note to Dealers
The information provided here is proprietary to Generac and its' authorized dealers. This information may only be disseminated upon request, to regulatory governmental bodies for emissions permitting purposes or to specifying organizations as submittal data when expressly required by project specifications, and shall remain confidential and not open to public viewing. This information is not intended for compilation or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc.

Advisory Notes on Emissions Actuals
- The stated values are actual exhaust emission test measurements obtained from units representative of the generator types and engines described.
- Values are official data of record as submitted to the EPA and SCAQMD for certification purposes. Testing was conducted in accordance with prevailing EPA protocols, which are typically accepted by SCAQMD and other regional authorities.
- No emission values provided are to be construed as guarantees of emissions levels for any given Generac generator unit.
- Generac Power Systems reserves the right to revise this information without prior notice.
- Consult state and local regulatory agencies for specific permitting requirements.
- The emissions performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and must be consulted by the permit applicant/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems cannot be construed as a guarantee of installability of the generator set.
- The emission values provided are the result of multi-mode, weighted scale testing in accordance with EPA testing regulations, and may not be representative of any specific load point.
- The emission values provided are not to be construed as emission limits.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2016 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Generac Power Systems, Inc.**
(U.S. Manufacturer or Importer)

Certificate Number: GGNXB05.42NL-048

Effective Date: 10/20/2015

Expiration Date: 12/31/2016

Byron J. Bunker, Division Director
Compliance Division

Issue Date: 10/20/2015

Revision Date: N/A

Manufacturer: Generac Power Systems, Inc.
Engine Family: GGNXB05.42NL
Mobile/Stationary Certification Type: Stationary
Fuel : LPG/Propane
Emission Standards :
Part 90 Phase 1
CO (g/kW-hr) : 519
HC + NOx (g/kW-hr) : 13.4
Emergency Use Only : Y

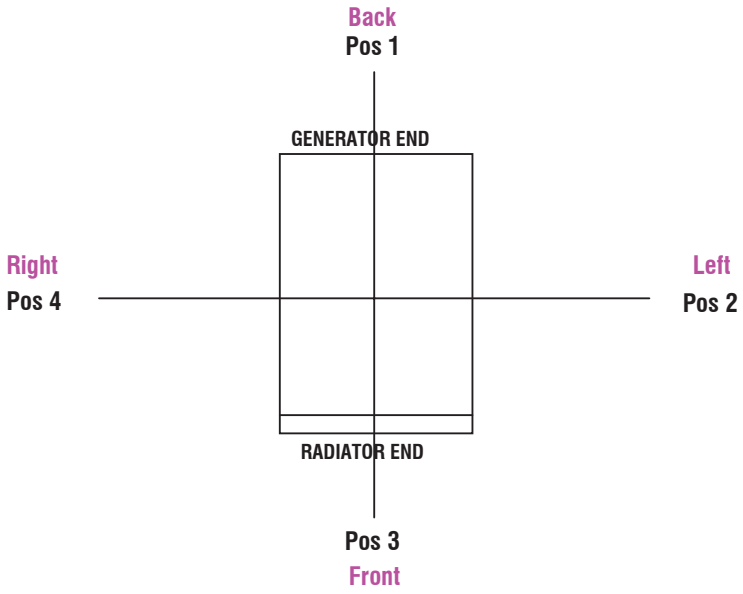
Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 60, 1065, 1068, and 60 (stationary only and combined stationary and mobile) and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the 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 and produced in the stated model year.

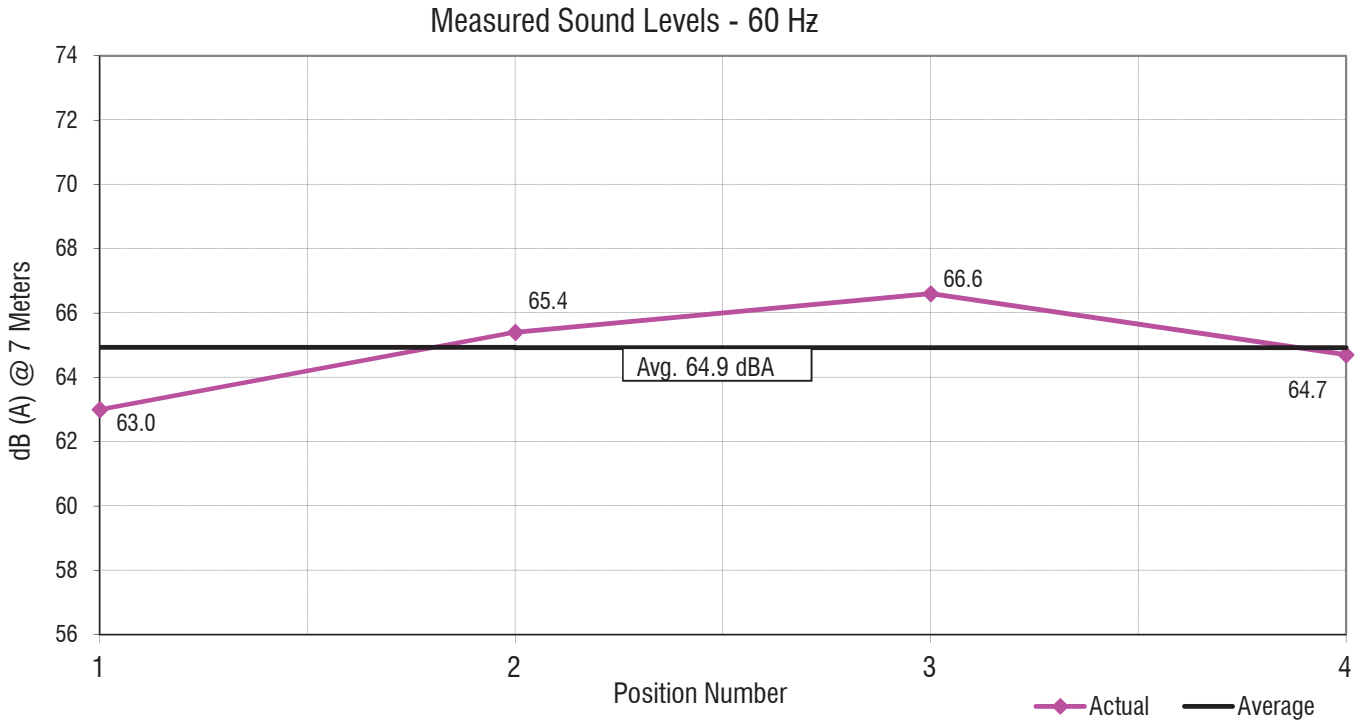
This certificate of conformity covers only those new nonroad spark-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60. 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. 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.

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.

LEVEL 2 ACOUSTIC ENCLOSURE
SG35 5.4L





Notes:

1. All positions 23 ft (7M) from side faces of generator set.
2. Generator operating at full load.
3. Test conducted on a 100 foot diameter asphault surface.
4. Non-enclosed sets do not include exhaust sound during testing.

SG035 | 5.4L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

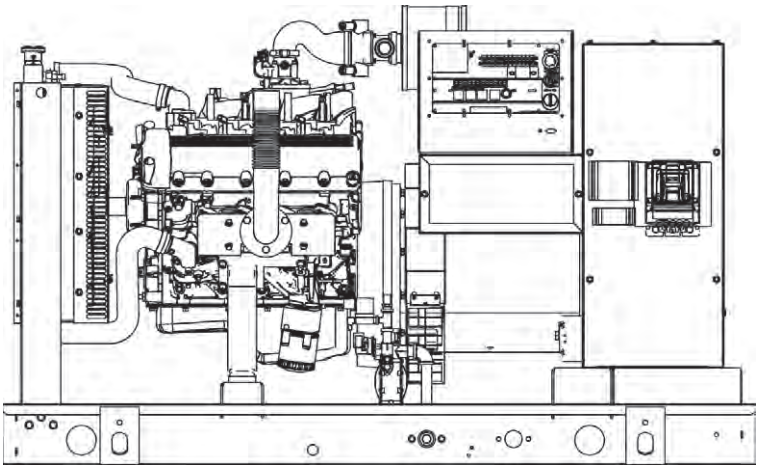
GENERAC | INDUSTRIAL POWER

STANDBY POWER RATING

35 kW, 44 kVA, 60 Hz

PRIME POWER RATING*

32 kW, 39 kVA, 60 Hz



*Built in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the U.S. or its Territories.

Image used for illustration purposes only

CODES AND STANDARDS

Generac products are designed to the following standards:

UL2200, UL508, UL142, UL498

NFPA70, 99, 110, 37

NEC700, 701, 702, 708

ISO9001, 8528, 3046, 7637, Pluses #2b, 4

NEMA ICS10, MG1, 250, ICS6, AB1

ANSI C62.41

IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SPEC SHEET

SG035 | 5.4L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

General

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Factory Filled Oil & Coolant
- Radiator Duct Adapter (open set only)
- Critical Exhaust Silencer (enclosed only)

Fuel System

- Flexible fuel line NPT Connection
- Primary and secondary fuel shutoff

Cooling System

- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-Installed Radiator
- 50/50 Ethylene glycol antifreeze
- Radiator drain extension

Engine Electrical System

- Battery charging alternator
- Battery cables
- Battery tray
- Rubber-booted engine electrical connections
- Solenoid activated starter motor

ALTERNATOR SYSTEM

- UL2200 Genprotect ™
- Class H insulation material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearings
- Amortisseur winding
- Full load capacity alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of circuits - high/low voltage
- Separation of circuits - multiple breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year Warranty (Prime rated units)
- Silencer mounted in the discharge hood (enclosed only)

ENCLOSURE (IF SELECTED)

- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material (L1 & L2)
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hoods for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles
- Rhino Coat™ - Textured polyester powder coat

CONTROL SYSTEM

Control Panel

- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection
- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

SG035 | 5.4L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

General

- O Engine Block Heater
- O Oil Heater
- O Air Filter Restriction Indicator
- O Stone Guard (Open Set Only)
- O Critical Exhaust Silencer (Open Set Only / Standard on Ultra Low Emissions Option)

Fuel Electrical System

- O 10A & 2.5A UL battery charger
- O Battery Warmer

ALTERNATOR SYSTEM

- O Alternator Upsizing
- O Anti-Condensation Heater
- O Tropical Coating
- O Permanent Magnet Excitation

CIRCUIT BREAKER OPTIONS

- O Main Line Circuit Breaker
- O 2nd Main Line Circuit Breaker
- O Shunt Trip and Auxiliary Contact
- O Electronic Trip Breaker

GENERATOR SET

- O Gen-Link Communications Software (English Only)
- O Extended Factory Testing (3 Phase Only)
- O IBC Seismic Certification
- O 8 Position Load Center
- O 2 Year Extended Warranty
- O 5 Year Warranty
- O 5 Year Extended Warranty

ENCLOSURE

- O Standard Enclosure
- O Level 1 Sound Attenuation
- O Level 2 Sound Attenuation
- O Steel Enclosure
- O Aluminum Enclosure
- O 150 MPH Wind Kit
- O 12 VDC Enclosure Lighting Kit
- O 120 VAC Enclosure Lighting Kit
- O AC/DC Enclosure Lighting Kit
- O Door Alarm Switch

CONTROL SYSTEM

- O 21-Light Remote Annunciator
- O Remote Relay Board (8 or 16)
- O Oil Temperature Sender with Indication Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O Remote Communication - Bridge
- O Remote Communication - Ethernet
- O 10A Run Relay
- O Ground Fault Indication and Protection Functions

ENGINEERED OPTIONS

ENGINE SYSTEM

- O Fluid containment Pans
- O Coolant heater ball valves

ALTERNATOR SYSTEM

- O 3rd Breaker Systems

CONTROL SYSTEM

- O Spare inputs (x4) / outputs (x4) - H Panel Only
- O Battery Disconnect Switch

GENERATOR SET

- O Special Testing
- O Battery Box

ENCLOSURE

- O Motorized Dampers
- O Enclosure Ambient Heaters

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition

SG035 | 5.4L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	8
Type	V
Displacement - L (cu In)	5.4L (329.53)
Bore - mm (in)	90.17 (3.55)
Stroke - mm (in)	105.92 (4.17)
Compression Ratio	9:1
Intake Air Method	Naturally Aspirated
Number of Main Bearings	4
Connecting Rods	Forged
Cylinder Head	Aluminum
Cylinder Liners	No
Ignition	Single Fire
Piston Type	Aluminum Alloy
Crankshaft Type	Nodular Iron
Lifter Type	Hydraulic
Intake Valve Material	Steel Alloy
Exhaust Valve Material	Hardened Steel
Hardened Valve Seats	Yes

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-flow sping-on cartridge
Crankcase Capacity - L (qts)	5.7 (6)

Cooling System

Cooling System Type	Pressurized Closed Recovery
Water Pump Flow -gal/min (l/min)	38 (144)
Fan Type	Pusher
Fan Speed (rpm)	2143
Fan Diameter mm (in)	508 (20)
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120 V

Fuel System

Fuel Type	Natural Gas, Propane Vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	7" - 11" H_2O

Engine Electrical System

System Voltage	12 VDC
Battery Charging Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	390mm
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Brushless
Bearings	Sealed Ball
Coupling	Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SG035 | 5.4L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

			Natural Gas	Propane Vapor
	Single-Phase 120/240 VAC @1.0pf	35 kW	Amps: 146	Amps: 146
	Three-Phase 120/208 VAC @0.8pf	35 kW	Amps: 121	Amps: 121
	Three-Phase 120/240 VAC @0.8pf	35 kW	Amps: 105	Amps: 105
	Three-Phase 277/480 VAC @0.8pf	35 kW	Amps: 53	Amps: 53
	Three-Phase 347/600 VAC @0.8pf	35 kW	Amps: 42	Amps: 42

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

		480 VAC						208/240 VAC					
Alternator	kW	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	35	24	36	48	60	72	84	18	27	36	45	54	63
Upsize 1	40	27	41	54	68	81	95	20	31	41	51	61	71
Upsize 2	50	34	52	69	86	103	120	26	39	52	65	77	90
Upsize 3	60	42	63	83	104	125	146	32	47	62	78	94	110

FUEL CONSUMPTION RATES*

Natural Gas - ft ^{3}/hr (m ^{3}/hr)

Percent Load	Standby
25%	239 (6.8)
50%	409 (11.6)
75%	553 (15.7)
100%	682 (19.3)

Propane Vapor - ft^3/hr (m ^{3}/hr)

Percent Load	Standby
25%	79.7 (2.3)
50%	136.6 (3.9)
75%	184.4 (5.2)
100%	227.7 (6.4)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Air Flow (inlet air combustion and radiator)	ft^3/min(m ^{3}/min)	2460 (69.7)
Coolant Flow per Minute	gal/min (l/min)	38 (144)
Coolant System Capacity	gal (l)	3 (11.36)
Heat Rejection to Coolant	BTU/hr	144,000
Max. Operating Air Temp on Radiator	^{o}F (^{o}C)	122 (50)
Max. Operating Ambient Temperature (before derate)	^{o}F (^{o}C)	110 (43.3)
Maximum Radiator Backpressure	in H_2O	0.5

COMBUSTION AIR REQUIREMENT

	Standby
Flow at Rated Power cfm (m^3/min)	87 (2.5)

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	54
Piston Speed	ft/min	1251
BMEP	psi	72

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m^3/min)	260 (7.4)
Max. Backpressure (Post Turbo)	inHg (Kpa)	1.5 (5.1)
Exhaust Temp (Rated Output - post silencer)	^{o}F (^{o}C)	900 (482)
Exhaust Outlet Size (Open Set)	mm (in)	63.5 (2.5)

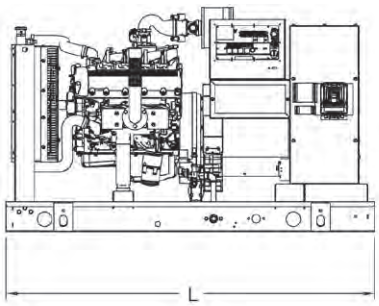
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

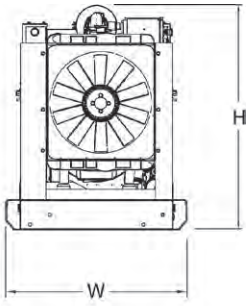
SG035 | 5.4L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

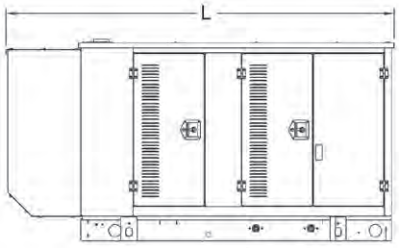
DIMENSIONS AND WEIGHTS

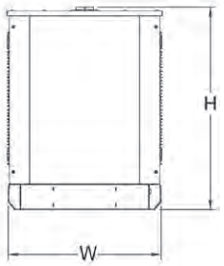




OPEN SET (Includes Exhaust Flex)

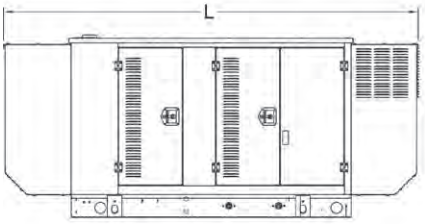
L x W x H in (mm)	76 (1930) x 37.4 (949.9) x 46 (1176)
Weight lbs (kg)	2199 (997)

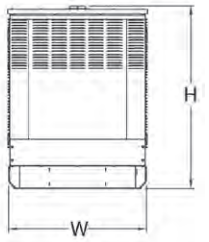




STANDARD ENCLOSURE

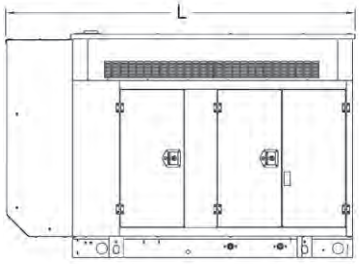
L x W x H in (mm)	94.8 (2408.9) x 38 (965.1) x 49.5 (1258.1)
Weight lbs (kg)	Steel: 2639 (1197) Aluminum: 2417 (1096)

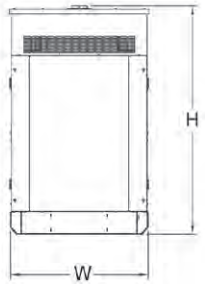




LEVEL 1 ACOUSTIC ENCLOSURE

L x W x H in (mm)	112.5 (2857.1) x 38 (965.1) x 49.5 (1258.1)
Weight lbs (kg)	Steel: 2719 (1233) Aluminum: 2451 (1112)





LEVEL 2 ACOUSTIC ENCLOSURE

L x W x H in (mm)	94.8 (2408.9) x 38 (965.1) x 62 (1573.9)
Weight lbs (kg)	Steel: 2871 (1302) Aluminum: 2517 (1142)

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

California Historical Resources Information System

NORTH CENTRAL INFORMATION CENTER

AMADOR
EL DORADO
NEVADA
PLACER
SACRAMENTO
YUBA

California State University, Sacramento
6000 J Street, Folsom Hall, Suite 2042
Sacramento, California 95819-6100
phone: (916) 278-6217
fax: (916) 278-5162
email: ncic@csus.edu

5/23/2017 NCIC File No.: ELD-17-37

Jared Kearsley
Epic Wireless Group
8700 Auburn Folsom Road, Suite 400
Granite Bay, CA 95746

Records Search Results for
AT&T/Epic Wireless/El Dorado County Resource Record Search Request – APN: 087-181-10

Jared Kearsley:

Per your request received by our office on 5/5/2017, a complete records search was conducted by searching California Historic Resources Information System (CHRIS) maps for cultural resource site records and survey reports in El Dorado County within a 1/4-mile radius of the proposed project area.

Review of this information indicates that the proposed project area contains zero (0) prehistoric-period resource(s) and zero (0) historic-period cultural resource(s). Additionally, zero (0) cultural resources study reports on file at this office cover a portion of the proposed project area.

Outside the proposed project area, but within the 1/4-mile radius, the broader search area contains zero (0) prehistoric-period resource(s) and zero (0) historic-period cultural resource(s). Additionally, zero (0) cultural resources study reports on file at this office cover a portion of the broader search area.

In this part of El Dorado County, archaeologists locate prehistoric-period habitation sites "along streams or on ridges or knolls, especially those with southern exposure." (Moratto 1984:290) This region is known as the ethnographic-period territory of the Nisenan, also called the Southern Maidu. The Nisenan maintained permanent settlements along major rivers in the Sacramento Valley and foothills; they also periodically traveled to higher elevations (Wilson and Towne 1978:387-389). The proposed project search area is situated in the Sierra Nevada about a quarter mile east of drainage to the Cosumnes River. Given the extent of known cultural resources and the environmental setting, there is low potential for locating prehistoric-period cultural resources in the immediate vicinity of the proposed project area.

Within the search area, the 1870 GLO plat of T8N, R9E shows no evidence of nineteenth-century historical activity. The 1950 Latrobe 7.5' USGS topographical map shows no evidence of twentieth-century historical activity. Given the extent of known cultural resources and patterns of local history, there is low potential for locating historic-period cultural resources in the immediate vicinity of the proposed project area.

SENSITIVITY STATEMENT:

1) With respect to cultural resources, it appears that the proposed project area **is not sensitive**.

2) Should the lead agency/authority require a cultural resources survey, a list of qualified local consultants can be found at http://chrisinfo.org.

3) If cultural resources are encountered during the project, avoid altering the materials and their context until a qualified cultural resources professional has evaluated the project area. Project personnel should not collect cultural resources. Prehistoric-period resources include: chert or obsidian flakes, projectile points, and other flaked-stone artifacts; mortars, grinding slicks, pestles, and other groundstone tools; and dark friable soil containing shell and bone dietary debris, heat-affected rock, or human burials. Historic-period resources include: stone or adobe foundations or walls; structures and remains with square nails; mine shafts, tailings, or ditches/flumes; and refuse deposits or bottle dumps, often located in old wells or privies.

4) Identified cultural resources should be recorded on DPR 523 (A-J) historic resource recordation forms, available at http://ohp.parks.ca.gov/?page_id=1069.

5) Review for possible historic-period cultural resources has included only those sources listed in the referenced literature and should not be considered comprehensive. The Office of Historic Preservation has determined that buildings, structures, and objects 45 years or older may be of historical value. If the area of potential effect contains such properties not noted in our research, they should be assessed by an architectural historian before commencement of project activities.

   Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the California Historical Resources Information System (CHRIS) Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

   The California Office of Historic Preservation (OHP) contracts with the California Historical Resources Information System's (CHRIS) regional Information Centers (ICs) to maintain information in the CHRIS inventory and make it available to local, state, and federal agencies, cultural resource professionals, Native American tribes, researchers, and the public. Recommendations made by IC coordinators or their staff regarding the interpretation and application of this information are advisory only. Such recommendations do not necessarily represent the evaluation or opinion of the State Historic Preservation Officer in carrying out the OHP's regulatory authority under federal and state law.

Thank you for using our services. Please contact North Central Information Center at (916) 278-6217 if you have any questions about this record search. An invoice is enclosed.

Sincerely,

Dr. Nathan Hallam, Coordinator
North Central Information Center

SYCAMORE ENVIRONMENTAL CONSULTANTS, INC.
6355 Riverside Blvd., Suite C, Sacramento, CA 95831
916/ 427-0703 Fax 916/ 427-2175
www.sycamoreenv.com

18 July 2017

Mr. Jared Kearsley
Leasing / Zoning Manager
Epic Wireless Group
8700 Auburn Folsom Road, Suite 400
Granite Bay, CA 95746
Phone: 916-755-1326

Subject: AT&T Latrobe Site CVL03138 Project in El Dorado County, CA

Dear Mr. Kearsley:

Sycamore Environmental prepared a Biological Resources Evaluation (BRE) for the AT&T Latrobe Site CVL03138 Project in El Dorado County, CA. The BRE is a baseline document. This letter identifies potential biological resource issues and recommended avoidance and minimization measures.

Trees
The 2004 El Dorado County General Plan Policy 7.4.4.4 requires all new development projects adhere to tree canopy retention and replacement standards. For parcels greater than one acre in size with 1 percent oak tree canopy cover or greater, 90 percent of the canopy must be retained.
Recommendation:

- The limits of construction will be fenced by the Contractor to minimize impacts on trees. Trucks and other vehicles will not be allowed to park beyond, nor shall equipment be stored beyond, the fencing. No vegetation removal or ground disturbing activities will be permitted beyond the fencing. Incorporation of this measure will help ensure that trees are not impacted beyond what is permitted by construction entitlements.

Migratory Birds and Birds of Prey
Under the MBTA, nests that contain eggs or unfledged young are not to be disturbed during the breeding season. Nesting or attempted nesting by migratory birds and birds-of-prey is anticipated from 15 January through 31 August.
Recommendation:

- Tree and vegetation removal shall occur outside of the nesting season (15 January through 31 August annually). All tree removal shall occur between 1 September and 14 January, which is outside of nesting season for MBTA and Fish and Game Code protected birds. If work occurs outside the nesting season, there will be no need to conduct a preconstruction survey for active nests.
- If project work occurs during the nesting season, a qualified biologist shall conduct a pre-construction survey for nesting birds of prey and other birds protected by the MBTA and Fish and Game Code within 15 days prior to the start of construction. The survey area shall cover the Project, a 500 ft radius for nesting birds of prey, and a 100 ft radius for all other MBTA and Fish and Game Code protected birds. If no active nest of a bird of prey, MBTA bird, or other Fish and Game Code-protected bird is found, then no further mitigation measures are necessary.

- Should an active nest of a protected bird be identified, an exclusion zone of 500 feet shall be established around the nest if it is a bird of prey, and 100 feet if it is a protected bird other than a bird of prey. Buffer sizes may be adjusted at the discretion of the biologist depending on the species of bird, the location of the nest relative to the project, the existing level of disturbance, and other site-specific conditions. No work will be allowed in the exclusion zone until the biologist determines that the nest is no longer active, or monitoring determines that a smaller ESA will protect the active nest.
- From 15 January through 31 August, if additional trees or shrubs need to be trimmed and/or removed after construction has started, a survey will be conducted for active nests in the area to be affected. If an active nest is found, the above measures will be implemented.
- If an active nest is identified in or adjacent to the construction zone after construction has started, the above measures will be implemented to ensure construction is not causing disturbance to the nest.

Please contact me with any questions.

Sincerely,

Jessie Quinn, Ph.D.
Ecologist

Enclosure: Biological Resources Evaluation

Biological Resources Evaluation
for the
AT&T Latrobe Site CVL03138 Project

El Dorado County, CA

Prepared by:

Sycamore Environmental Consultants, Inc.
6355 Riverside Blvd., Suite C
Sacramento, CA 95831
Phone: 916/ 427-0703
Contact: Jessie Quinn, Ph.D.

Prepared for:

Epic Wireless Group, LLC
8700 Auburn Folsom Road, Suite 400
Granite Bay, CA 95746
Phone: 916/ 755-1326
Contact: Jared Kearsley

July 2017

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Biological Resources Evaluation
for the
AT&T Latrobe Site CVL03138 Project

El Dorado County, CA

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

I. SUMMARY OF FINDINGS AND CONCLUSIONS

This Biological Resources Evaluation report was prepared for the AT&T Latrobe Site CVL03138 Project (Project) to document baseline biological conditions observed in 2017. The approximately 1.6-acre Biological Study Area (BSA) is located south of the community of Latrobe, El Dorado County, CA.

Trees and vegetation in and adjacent to the BSA provide habitat for nesting birds protected by the Migratory Bird Treaty Act (MBTA) and Fish and Game Code. The nesting bird season is generally defined as 15 February through 31 August, though some species of birds may begin nesting as early as 15 January.

The BSA provides habitat for two special-status plants species [oval-leaved viburnum (*Viburnum ellipticum*) and big-scale balsamroot (*Balsamorhiza macrolepis*)]. No special-status plant species were found during the botanical survey conducted during the evident and identifiable period. No other special-status wildlife or plant species have the potential to occur in the BSA. The BSA is in a previously disturbed area within an Important Biological Corridor. The BSA is not in a Rare Plant Mitigation Area or within Important Habitat for Migratory Deer Herds.

Approximately 0.64 acre of blue oak woodland occurs in the BSA. Based on aerial images, the parcel in which the BSA is located contains more than 1 percent canopy cover of oak woodlands.

A farm road crosses over an upland swale via a small culvert. The upland swale has no apparent ordinary high water mark (OHWM). Upland swales lacking an OHWM are not waters of the U.S.

II. INTRODUCTION

A. Purpose of Report

The purpose of this Biological Resources Evaluation (BRE) report is to document baseline biological resources in the AT&T Latrobe Site Project (Project) Biological Study Area (BSA).

B. Project Location

The approximately 1.63-acre BSA is located approximately 2 miles south of the community of Latrobe, CA. The BSA is surrounded by rural residential in the western extent of the Sierra Nevada foothills. The BSA is on the Latrobe USGS topographic quad (T8N, R9E, Sections 23, Mt. Diablo Base & Meridian; Figure 1) and is in the Upper Cosumnes Hydrologic Unit (Hydrologic Unit Code 18040013). The approximate geographic coordinates of the BSA are 38.528990° north, 120.961751° west (WGS84), and the UTM coordinates (Zone 10N) are 677,668 meters east, 4,266,479 meters north. Elevation in the BSA ranges from approximately 640 to 750 feet above sea level. The BSA is moderately sloped. Figure 2 is a 20 June 2016 aerial photo of the BSA and surrounding area.

C. Project Applicant

Applicant:
AT&T Mobility
2600 Camino Ramon, Suite 201
San Ramon, CA 94583
(925) 866-0100

Consulting Planner:
Epic Wireless Group, LLC
8700 Auburn Folsom Road, Suite 400
Granite Bay, CA 95746
(916) 755-1326

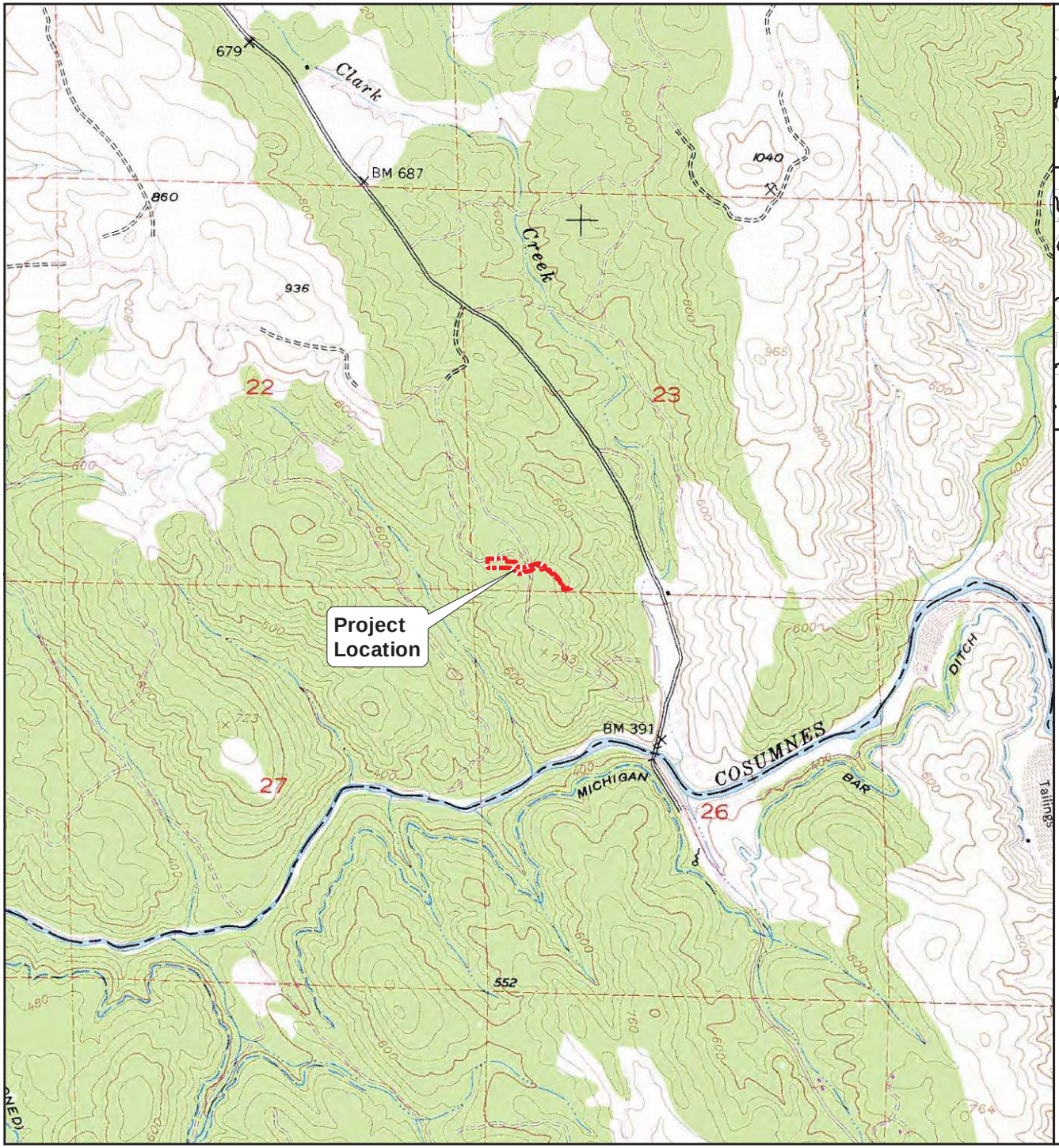
D. Project Description

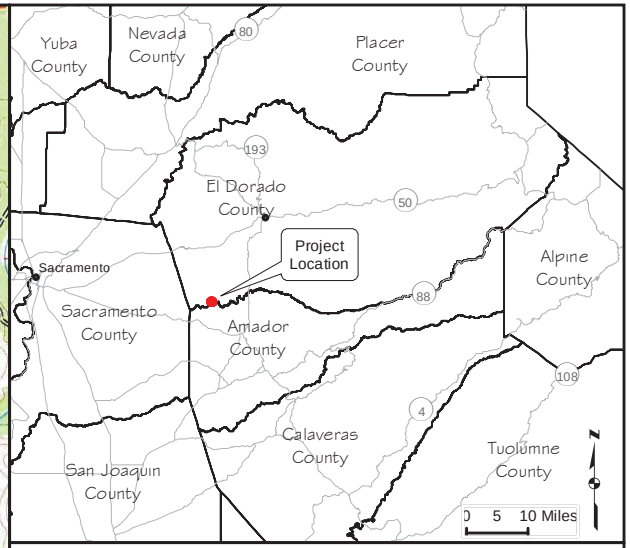
AT&T intends to construct a wireless telecommunications facility at 7160 Dragon Point Road, Shingle Springs, in southwestern El Dorado County.

The proposed AT&T Latrobe Site CVL03138 Project (Project) facility tower will be a new 133-foot monopole tower with a new GPS antenna, twelve wireless antennas in three 6-foot sectors mounted at 130 feet, and eighteen remote radio units (RRUs) and three surge protectors on a collar mount directly below the sectors. In the future, the tower can also accommodate three additional RRUs and two 4-ft diameter microwave dishes mounted at 112 feet. Future antennas can be mounted by other carriers at approximately 90 and 105 feet. The tower has been designed with broadleaf foliage to match the existing surrounding trees. The foliage would extend horizontally approximately seven feet above the top of the structure to an overall structure height of approximately 140 feet. Antennas will be concealed with socks. The monopole "trunk" and RRUs will be painted brown.

The facility will include a new, approximately 625-ft-long, 12-ft-wide asphalt concrete access road, a new 35-Kilowatt propane generator with a 500-gallon propane tank, and a pre-fabricated equipment shelter. The access road will be constructed in part on the same alignment as an existing dirt and gravel driveway, and an existing dirt road on the property. Two existing 12-inch culverts under the existing dirt road will be replaced with longer culverts to accommodate the new access road width. The facility will be located on a 30-ft x 35-ft lease area enclosed with a 6-ft chain link fence with a 12-ft wide double access gate. Connecting the facility with existing power and fiber lines will require excavation of an approximately three-foot-wide, 1,250-ft long utility trench along the proposed access road, through which to run cables. At the point of connection, a new meter main will be installed next the existing meter on an existing utility pole. A new 36-inch barrel fiber vault will be installed on another existing utility pole.

The Project does not include removal or pruning of oak trees.





AT&T Latrobe Site
CVL03138 Project
El Dorado County, CA
7 July 2017

Figure 1. Project Location Map

Project Location

2,000 1,000 0 2,000 Feet

Scale: 1 inch = 2,000 feet

N

SYCAMORE
Environmental
Consultants, Inc.

Latrobe, CA (Revised 1973)
CASIL California USGS Digital Raster Graphics (DRG),
7.5 Minute (C) Series, Albers Nad83 Mosaics (MrSID)
o_nw0202.sid

17077EpicWirelessMSA_Latrobe_Fig1LocationMap.mxd

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AT&T Latrobe Site
CVL03138 Project
El Dorado County, CA
7 July 2017

Biological Study Area (BSA)

SYCAMORE Environmental Consultants, Inc.

Aerial Photograph: 20 June 2016
NAIP2016 USDA FSA Imagery
ESRI ArcGIS Basemap Layer

Figure 2. Aerial Photograph

17077EpicWirelessMSA_Latrobe_Fig2AerialPhoto.mxd

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III. STUDY METHODS

A. Studies Conducted

An evaluation of biological resources was conducted to determine whether any special-status plant or wildlife species, their habitat, or sensitive habitats occur in the BSA. Data on known special-status species and habitats in the area was obtained from state and federal agencies. Maps and aerial photographs of the BSA and surrounding area were reviewed. The field survey, map review, and a review of the biology of evaluated species and habitats were used to determine the special-status species and sensitive habitats that could occur in the BSA.

Special-status species in this report are those listed under the federal or state endangered species acts, under the California Native Plant Protection Act, as a California species of special concern or fully protected by the California Department of Fish and Wildlife (CDFW), or that are California Rare Plant Rank 1 or 2 (CNPS 2017). This is consistent with special-status species definitions in the El Dorado County General Plan EIR (2004). Special-status natural communities are waters, wetlands, riparian communities, and any natural community ranked S1, S2, or S3 by CDFW (2010). Special-status species and communities may also include those considered locally important or sensitive. El Dorado County identifies Important Biological Corridors and Important Habitat for Migratory Deer Herds in its General Plan (2016), and Rare Plan Mitigation areas per the Board of Supervisors Resolution No. 205-98. General Plan Policy 7.4.4.4 requires all new development projects adhere to tree canopy retention and replacement standards.

Data received from USFWS, CNDDB, and CNPS records (Appendices B and C) were used to evaluate species and habitats of concern with potential to occur within the BSA. The CNDDB tracks other species that have not been designated by CDFW as a California species of special concern; these species were not evaluated as special-status species in this BRE.

B. Survey Dates, Personnel, and Coverage

Fieldwork for this BRE, covering the 1.6-acre BSA, was conducted by Jessica Orsolini, Senior Wildlife Biologist and Juan Mejia, Biologist, on 28 June 2017.

C. Problems Encountered and Limitations That May Influence Results

No problems or limitations were encountered.

D. Literature Search

An IPaC Trust Resource Report was obtained from the U.S. Fish and Wildlife Service (USFWS), Sacramento Field Office on 23 June 2017 (Appendix A). The list identifies federal-listed, candidate, and proposed species that potentially occur in, or could be affected by, the Project.

The California Natural Diversity Database (CNDDB) was queried prior to field surveys for known occurrences of special-status species in or near the BSA (Latrobe Quad and the eight surrounding quads). The list was updated most recently on 23 June 2017 (data dated 2 June 2017; Appendix B).

The California Native Plant Society (CNPS) inventory of rare and endangered plants was queried prior to field surveys for known occurrences of special-status plants in or near the BSA (Latrobe Quad and the

eight surrounding quads). The list was updated most recently on 23 June 2017 (Appendix C). Table 1 lists the USGS quads evaluated.

Table 1. USGS Quads Evaluated for the AT&T Latrobe Site Project

Clarksville	Shingle Springs	Placerville
Folsom SE	**Latrobe**	Fiddletown
Carbondale	Irish Hill	Amador City

E. Field Survey Methods

Biological surveys conducted for this report consisted of biologists walking through the BSA while looking for special-status wildlife species, their sign, and their habitat. Areas adjacent to the BSA were also inspected for important habitat features such as vernal pools, burrows, and other wetlands/waters. Biological community boundaries were recorded with a sub-meter accurate GPS. All plant and wildlife species observed in or near the BSA were recorded (Appendix D).

F. Mapping

The 20 June 2016 aerial photograph in Figure 2 was downloaded from NAIP2016 USDA FSA Imagery, and the 25 October 2016 aerial photograph in Figure 4 was downloaded from Google Earth. Biological communities were mapped based on GPS data, field observations, and interpretation of the aerial photographs available on Google Earth. >The culvert in the BSA was mapped by Sycamore Environmental biologists using a Trimble GeoXT sub-meter accurate GPS. No additional sensitive biological resources were observed.

IV. ENVIRONMENTAL SETTING

The BSA is located in a rural area south of the community of Latrobe, CA, in the western extent of the Sierra Nevada foothills. Land use adjacent to the BSA consists of undeveloped oak woodland and dispersed residences. The Cosumnes River is approximately 0.4 mile to the south, and Lake Calero is approximately 6.5 miles to the west. The BSA is approximately 1.63 acres. The parcel on which the BSA is located is approximately 20 acres in size.

A. Soils

Mapped soil units in the BSA are Auburn very rocky silt loam, 2 to 30 percent slopes and 30 to 50 percent slopes (Figure 3; NRCS 2017). Figure 3 is a soils map. The following description is summarized from NRCS (2017). Reported colors are for moist soil.

Auburn very rocky silt loam, 2 to 30 percent slopes and 30 to 50 percent slopes
The Auburn series occur on foothills and have slopes of 2 to 75 percent. They formed in material weathered from amphibolite schist. A typical profile of Auburn very rocky loam is reddish brown (5YR 4/4) silt loam from 0 to 9 inches; yellowish red (5YR 4/6) silt loam from 9 to 14 inches; and very pale brown (10YR 7/4) partly weathered amphibolite schist with reddish brown (2.5YR 4/4) colloidal stains in fractured planes from 14 to 24 inches. This soil is slightly acidic. Permeability is moderate and surface runoff is low to very high.

B. Weather and Climate Conditions

Field work for the jurisdictional delineation was conducted on 28 June 2017. Precipitation in California is typically reported for the period from 1 October through 30 June of the next calendar year in order to contain a single winter wet season. The historic annual average precipitation for the National Weather Service Placerville gauge is 38.12 inches. From 1 October 2016 through 27 June 2017 the gauge received 72.49 inches of rain (CDEC 2017), or 193% of the average annual precipitation. The Placerville gauge is approximately 14 miles northeast of the BSA at an elevation of 1,850 feet. The BSA had wetter than average precipitation in the water year preceding the biological fieldwork.

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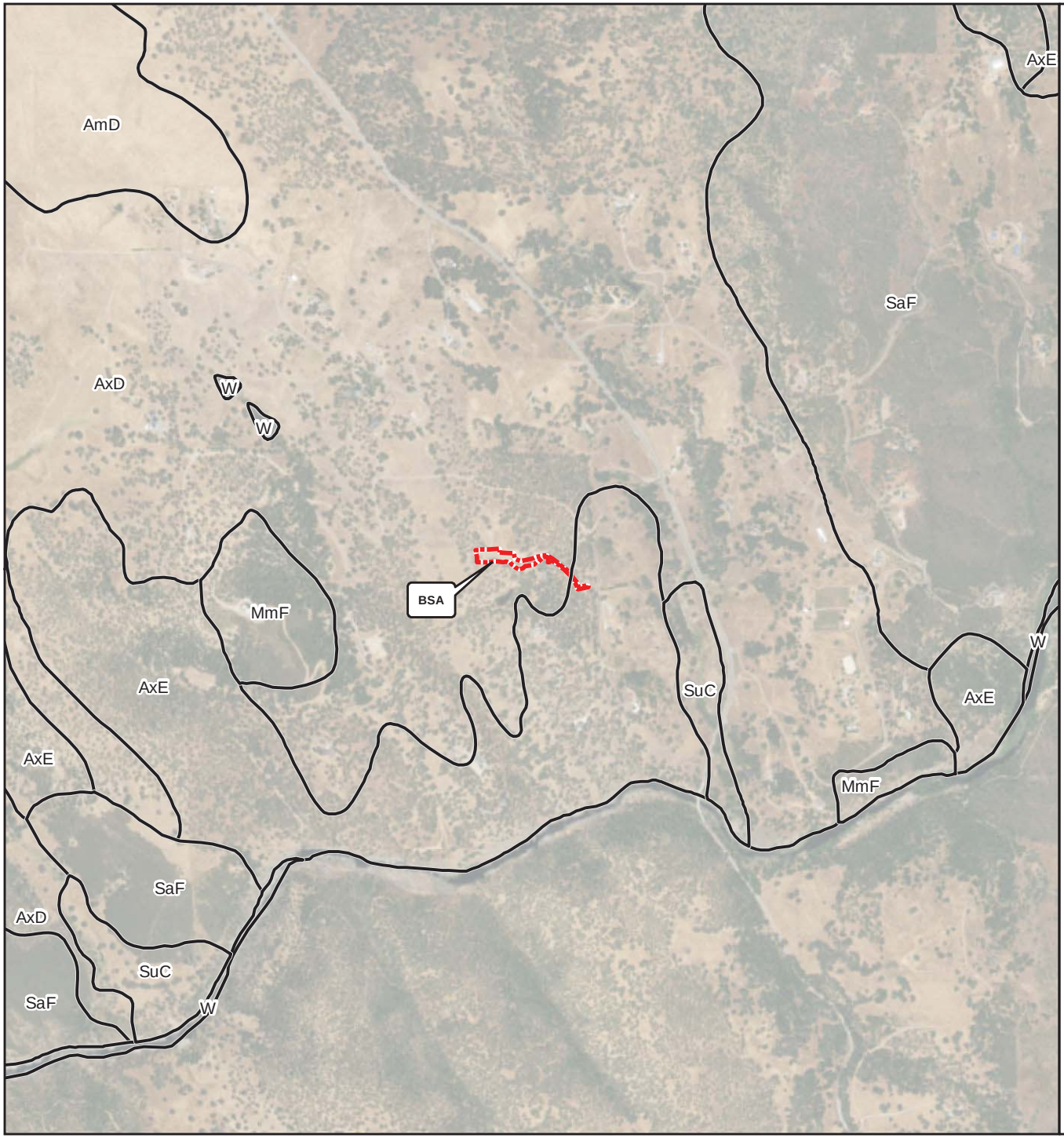

AT&T Latrobe Site
CVL03138 Project
El Dorado County, CA
7 July 2017

Figure 3. Soils Map

Biological Study Area (BSA)

Soil Boundary

Soil Mapping Unit

Symbol	Name
AxD	Auburn very rocky silt loam, 2 to 30 percent slopes
AxE	Auburn very rocky silt loam, 30 to 50 percent slopes

1,500 0 1,500 Feet

N

Scale: 1 inch = 1,500 feet

SYCAMORE Environmental Consultants, Inc.

Soil Survey Geographic (SSURGO) database for El Dorado Area, California, USDA, NRCS
URL:http://SoilDataMart.nrcs.usda.gov/

Aerial Photograph: 20 June 2016
NAIP2016 USDA FSA Imagery
ESRI ArcGIS Basemap Layer

17077EpicWirelessMSA_Latrobe_Fig3SoilsMap.mxd

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C. Biological Communities

Biological communities are defined by species composition and relative abundance. Biological communities correlate, where applicable, with the list of California terrestrial natural communities recognized by CDFW (2010). Descriptions of biological communities present in the BSA are included below. Biological community descriptions include plant species identified during the field surveys. Biological communities are mapped in Figure 4 and their acreages are in Table 2. Photographs of the BSA are in Appendix E.

Table 2. Biological Communities in the BSA

Biological Community	Vegetation Alliances and CDFW Alliance Codes [1]	Rarity Rank [2]	Acreage [3]
Blue Oak Woodland	*Quercus douglasii* (Blue oak woodland) Alliance (CDFW 71.020.00)	G4 S4	0.64
California Annual Grassland	--	--	0.58
Ruderal	--	--	0.05
Existing Structures/ Roads	--	--	0.36
		Total:	1.63

[1] Vegetation alliances based on descriptions and classification methods in Sawyer et al. (2009). Alliance codes from CDFW (2010). Some communities may lack recognized vegetation alliances or contain multiple alliances.

[2] Rarity ranking follows NatureServe's Heritage Methodology and is based on degree of imperilment as measured by rarity, trends, and threats. State (S) ranks of 1-3 are considered highly imperiled by CDFW (2010). Nonnative vegetation has no rarity rank.

[3] Acreages were calculated using ArcMap functions.

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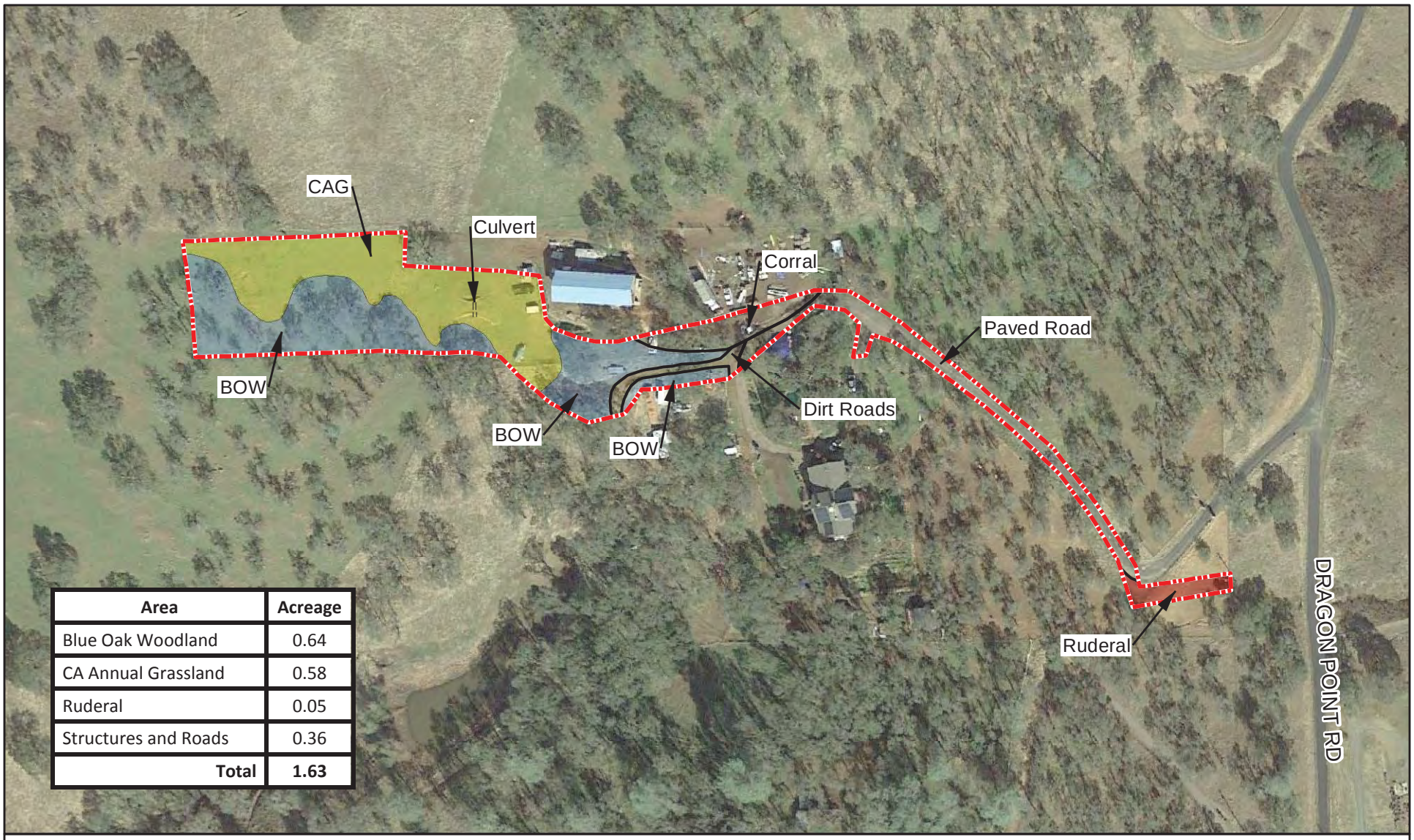

Area	Acreage
Blue Oak Woodland	0.64
CA Annual Grassland	0.58
Ruderal	0.05
Structures and Roads	0.36
Total	**1.63**

AT&T Latrobe Site
CVL03138 Project
El Dorado County, CA
18 July 2017

Figure 4.
Biological Resources Map

Biological Study Area (BSA)
Ruderal
CA Annual Grassland (CAG)
Blue Oak Woodland (BOW)
Structures and Existing Roads

150 100 50 0 150 Feet
N
Scale: 1 inch = 150 feet

SYCAMORE Environmental Consultants, Inc.

Aerial Photograph:
25 October 2016
Google Earth Imagery

17077EpicWirelessMSA_Latrobe_Fig4BioresMap.mxd

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1. Blue Oak Woodland

A total of 0.64 acre of blue oak woodland occurs in the southwest corner of the BSA and along either side of the dirt road cutting through the center of the BSA. This community contains an overstory dominated by blue oak (*Quercus douglasii*). The understory contains the same dominant species as the California annual grassland community. Blue oak woodland in the BSA is an upland community.

The 2004 El Dorado County General Plan Policy 7.4.4.4 requires all new development projects adhere to tree canopy retention and replacement standards. The County is currently in the process of review and approval of the Oak Resources Management Plan (ORMP) and Oak Resources Conservation Ordinance.

2. California Annual Grassland

A total of 0.58 acre of California annual grassland occurs in the northwest corner of the BSA. This community is dominated by hare barley (*Hordeum murinum* ssp. *leporinum*), hairy hawkbit (*Leontodon taraxacoides*), and stickwort (*Spergula arvensis*). Additional dominant species include a mix of soft chess (*Bromus hordeaceus*), clustered clover (*Trifolium glomeratum*), false brome (*Brachypodium distachyon*), and rose clover (*Trifolium hirtum*). This community appears to regularly experience grazing. The California annual grassland is an upland community. The vegetation in this community has no special status. An upland swale conveys sheet flow from north to south. The swale flows through a small culvert.

3. Ruderal

A total of 0.05 acre of ruderal land occurs at the eastern extent of the BSA. This area occurs adjacent to the paved access road and lacks vegetation. Based on a review of aerial photographs, the area appears to be affected by sheep grazing.

4. Existing Structures / Roads

A total of 0.36 acre of existing structures and roads occur in the eastern portion of the BSA. This area consists of a corral, two dirt roads, and paved private road. The corral is located at the midsection of the BSA and is associated with the residence immediately north of the BSA. These areas are disturbed and generally lack vegetation. Where present, vegetation consists of species associated with the blue oak woodland and California annual grassland communities.

D. The Existing Level of Disturbance

The vast majority of the BSA has an existing level of disturbance from the surrounding residential homes and other structures, paved roads, human access, and grazing activity.

V. BIOLOGICAL RESOURCES IN THE BIOLOGICAL STUDY AREA

A. Determination of Special-Status Species and Communities in the Biological Study Area

Field surveys were conducted by Sycamore Environmental biologists to determine if individuals or habitat for special-status species identified in the file data were present in the BSA. Special-status species for which suitable habitat is present are discussed below.

Special-status wildlife species, plant species, and communities for which suitable habitat is not present, or whose distributional limits preclude the possibility of their occurrence in the BSA, are not discussed in Section V of this report.

B. Evaluation of Special-Status Natural Communities

The BSA is located within an Important Biological Corridor (IBC), in a previously disturbed and developed area. There are no special-status natural communities within the BSA

The project is not located within Important Habitat for Migratory Deer Herds.

Based on aerial images in Google Earth from October 2016, the approximately 20-acre parcel in which the BSA is located contains more than 1 percent canopy cover of oak woodlands.

C. Evaluation of Special-Status Fish and Wildlife Species

1. Birds

Migratory Birds and Birds of Prey

STATUS: Fish and Game Code 3503.5 protects all birds in the orders Falconiformes and Strigiformes (collectively known as birds of prey). Birds of prey include raptors, falcons, and owls. Migratory birds are protected under the federal Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. 703-711). The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed in 50 CFR Part 10 including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). All migratory bird species are protected by the MBTA. Any disturbance that causes direct injury, death, nest abandonment, or forced fledging of migratory birds, is restricted under the MBTA. Any removal of active nests during the breeding season or any disturbance that results in the abandonment of nestlings is considered a 'take' of the species under federal law.

HABITAT PRESENT IN THE BSA: No bird of prey nests or nests of other birds protected by the MBTA or Fish and Game Code were observed in the BSA during biological surveys. Bird species observed are listed in Appendix A. Trees and vegetation in the BSA provide nesting habitat for birds of prey and other birds protected by the MBTA and Fish and Game Code.

DISCUSSION: The nesting bird season is generally defined as February 15th through August 31st, though some species can begin nesting as early as January 15th.

D. Evaluation of Special-Status Plant Species

Big-scale Balsamroot (*Balsamorhiza macrolepis*)

HABITAT AND BIOLOGY: A perennial herb found in open grassy or rocky slopes in chaparral, cismontane woodland, and valley and foothill grassland from 295 to 5,100 feet in elevation. Sometimes found on serpentinite substrates. Blooms March through July (CNPS 2017).

RANGE: Known from Alameda, Amador, Butte, Colusa, El Dorado, Lake, Mariposa, Napa, Placer, Santa Clara, Shasta, Solano, Sonoma, Tehama, and Tuolumne counties (CNPS 2017).

KNOWN RECORDS: The closest CNDDB record is approximately 12 miles southeast of the BSA, located along Stony Creek. The exact location is unknown, and is mapped as best guess by CNDDB. The record is based on an 1895 collection.

HABITAT PRESENT IN THE BSA: This BSA provides potential habitat for big-scale balsamroot.

DISCUSSION: Big-scale balsamroot was not observed during the botanical survey conducted during the evident and identifiable period.

Oval-leaved Viburnum (*Viburnum ellipticum*)

HABITAT AND BIOLOGY: A perennial deciduous shrub found in chaparral, cismontane woodland, and lower montane coniferous forest from 700 to 4,600 feet in elevation. Blooms May through June (CNPS 2017).

RANGE: Known from Alameda, Contra Costa, El Dorado, Fresno, Glenn, Humboldt, Lake, Mendocino, Mariposa, Napa, Placer, Shasta, Solano, Sonoma, and Tehama counties (CNPS 2017).

KNOWN RECORDS: The closest CNDDB record is approximately 15 miles northeast of the BSA, located in the city of Placerville. The exact location is unknown, and is mapped as best guess by CNDDB. The record is based on collections in 1900 and 1901.

HABITAT PRESENT IN THE BSA: This BSA provides potential habitat for Oval-leaved viburnum.

DISCUSSION: Oval-leaved viburnum was not observed during the botanical survey conducted during the evident and identifiable period.

E. Potentially Jurisdictional Waters

Field surveys conducted by Sycamore Environmental biologists included evaluation of potential wetlands or waters within the BSA.

A farm road crosses over an upland swale via a small culvert. The upland swale has no apparent OHWM. Upland swales lacking an OHWM are not waters of the U.S.

VI. LITERATURE CITED

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VII. PREPARERS

Jeffery Little, Vice President, Sycamore Environmental. Responsibilities: Principal-in-Charge, QA/QC.

Jessica Quinn, Ph.D., Ecology, University of California, Davis, CA. Over 8 years of experience as a professional ecologist. Conducts special-status plant and wildlife surveys; provides technical support for wetland delineations; and coordinates and prepares PES submissions. Project management, prepares CEQA documents and reports used in the CEQA/NEPA process that document resources, identify impacts, and recommend mitigation measures. She has managed and conducted wetland functional analyses, environmental risk assessments, environmental screening evaluations, and restoration design evaluations, and has received training in biology and survey techniques for CA red-legged frog, NEPA and Habitat Conservation Planning. Her background includes 13 additional years of experience managing and conducting ecological research on mammals, birds, and grassland ecology. Dr. Quinn holds a CDFW Rare, Threatened and Endangered Plant Voucher Collecting Permit (#2081(a)-16-053-V), and is an authorized individual on the CDFW Scientific Collecting Permit (SC-7617).
Responsibilities: Project manager, report preparation.

Jessica Orsolini, B.S., Wildlife Biology, University of Montana, Missoula, MT. Over 10 years of experience as a professional biologist. Conducts plant and wildlife surveys, CA red-legged frog protocol surveys, jurisdictional delineations, biological resource evaluations, worker awareness training, and construction monitoring; prepares impact/mitigation analyses, and assists with permit application preparation. She prepares reports used in the CEQA/NEPA process that document resources, identify impacts, recommends mitigation measures, and assists with permit application preparation. She is an ISA Certified Arborist (WE-7845A), holds a USFWS recovery permit for listed California tiger salamander (TE43610A-0), a California Department of Fish and Wildlife Rare, Threatened and Endangered Plant Voucher Collecting Permit (2081(a)-16-019-V), and is an authorized individual on the CDFW Scientific Collecting Permit (SC-7617). She has received advanced training in the biology and survey techniques for California red-legged frog (*Rana draytonii*), California tiger salamander (*Ambystoma californiense*), bats, southwestern willow flycatcher (*Empidonax traillii extimus*).
Responsibilities: Fieldwork.

Allie E. Sennett, M.S., Environmental Management (concentration in Ecology), University of San Francisco, CA. Over 5 years of experience as a professional biologist. Conducts plant and wildlife surveys, provides technical support for wetland delineations, biological resource evaluations, mitigation plans, and other documents used in the CEQA/NEPA process, queries the CNDDB, and researches special-status species for projects. She holds a California Department of Fish and Wildlife Rare, Threatened and Endangered Plant Voucher Collecting Permit (2081(a)-16-016-V). Ms. Sennett has received advanced training in the biology and survey techniques for western pond turtle (*Actinemys marmorata*), California red-legged frog (*Rana draytonii*), California tiger salamander (*Ambystoma californiense*), willow flycatcher (*Empidonax traillii*), and giant garter snake (*Thamnophis gigas*).
Responsibilities: Report preparation.

Juan L. Mejia, B.S., Environmental Science and Management (emphasis Ecology, Conservation and Biodiversity), University of California, Davis, CA. Over 2 years of experience as a professional biologist. Mr. Mejia conducts plant and wildlife surveys, preconstruction and construction monitoring, and assists with preparation of biological resource evaluations, Natural Environment Study reports, permit

applications, and other documents used in the CEQA/NEPA process. Serving as both field biologist and technical report writer, he conducts database research on special status species' biology, habitat and distribution. He holds a California Department of Fish and Wildlife Rare, Threatened and Endangered Plant Voucher Collecting Permit (2081(a)-15-067-V), is an authorized individual on the CDFW Scientific Collecting Permit (SC-7617), and a Forest Service Certification in Wilderness Ethics.
Responsibilities: Fieldwork.

Aramis Respall, GIS Analyst/ CAD Operator. Over 20 years of experience in drafting and spatial analysis using AutoCAD map and ArcGIS for public and private projects. Prepares figures for biological and permitting documents such as project location maps, biological resource maps, wetlands/waters delineation maps, impact analysis maps, and other supporting graphics. Primary experience evolved from surveying and civil engineering practices to advanced GPS/GIS technology.
Responsibilities: Figure preparation and spatial analysis.

APPENDIX A

USFWS Species List

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:
Consultation Code: 08ESMF00-2017-SLI-2434
Event Code: 08ESMF00-2017-E-06615
Project Name: AT&T Latrobe Site CVL03138 Project

June 23, 2017

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to

utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
(916) 414-6600

Project Summary

Consultation Code: 08ESMF00-2017-SLI-2434

Event Code: 08ESMF00-2017-E-06615

Project Name: AT&T Latrobe Site CVL03138 Project

Project Type: COMMUNICATIONS TOWER

Project Description: AT&T intends to construct a wireless telecommunications facility that would consist of: a new 133-foot monopole tower, a new approximately 625-foot-long, 12-foot-wide asphalt concrete access road, a new 35 Kilowatt propane generator with a 500-gallon propane tank, and a pre-fabricated equipment shelter. The access road would be constructed in part on the same alignment as an existing dirt and gravel driveway on the property. The facility would be located on a 30 ft x 35 ft lease area enclosed with a 6 ft chain link fence. An approximately three-foot-wide, 1,250 linear ft long utility trench along the proposed access road would be required to install new underground cables.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/38.52875894555548N120.96164920790777W

Counties: El Dorado, CA

Endangered Species Act Species

There is a total of 5 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area. Please contact the designated FWS office if you have questions.

Amphibians

NAME	STATUS
California Red-legged Frog *(Rana draytonii)* There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891	Threatened

Fishes

NAME	STATUS
Delta Smelt *(Hypomesus transpacificus)* There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened
Steelhead *(Oncorhynchus (=Salmo) mykiss)* Population: Northern California DPS There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1007	Threatened

Insects

NAME	STATUS
Valley Elderberry Longhorn Beetle *(Desmocerus californicus dimorphus)* There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7850	Threatened

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp *(Branchinecta lynchi)* There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened

Critical habitats

There are no critical habitats within your project area.

APPENDIX B

CNDDB Summary Report

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Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Clarksville (3812161) OR Shingle Springs (3812068) OR Placerville (3812067) OR Folsom SE (3812151) OR Latrobe (3812058) OR Fiddletown (3812057) OR Carbondale (3812141) OR Irish Hill (3812048) OR Amador City (3812047))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Candidate Endangered	G2G3	S1S2	SSC
Allium jepsonii Jepson's onion	PMLIL022V0	None	None	G2	S2	1B.2
Ambystoma californiense California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
Ammodramus savannarum grasshopper sparrow	ABPBXA0020	None	None	G5	S3	SSC
Andrena blennospermatis Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	G2	S2	
Antrozous pallidus pallid bat	AMACC10010	None	None	G5	S3	SSC
Aquila chrysaetos golden eagle	ABNKC22010	None	None	G5	S3	FP
Arctostaphylos myrtifolia Ione manzanita	PDERI04240	Threatened	None	G1G2	S1S2	1B.2
Arctostaphylos nissenana Nissenan manzanita	PDERI040V0	None	None	G1	S1	1B.2
Ardea alba great egret	ABNGA04040	None	None	G5	S4	
Ardea herodias great blue heron	ABNGA04010	None	None	G5	S4	
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Balsamorhiza macrolepis big-scale balsamroot	PDAST11061	None	None	G2	S2	1B.2
Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
Branchinecta mesovallensis midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
Buteo regalis ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
Buteo swainsoni Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
Calystegia stebbinsii Stebbins' morning-glory	PDCON040H0	Endangered	Endangered	G1	S1	1B.1
Carex xerophila chaparral sedge	PMCYP03M60	None	None	G2	S2	1B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Ceanothus roderickii Pine Hill ceanothus	PDRHA04190	Endangered	Rare	G1	S1	1B.1
Central Valley Drainage Hardhead/Squawfish Stream Central Valley Drainage Hardhead/Squawfish Stream	CARA2443CA	None	None	GNR	SNR	
Chlorogalum grandiflorum Red Hills soaproot	PMLIL0G020	None	None	G2	S2	1B.2
Chrysis tularensis Tulare cuckoo wasp	IIHYM72010	None	None	G1G2	S1S2	
Clarkia biloba ssp. brandegeeae Brandegee's clarkia	PDONA05053	None	None	G4G5T4	S4	4.2
Cosumnoperla hypocrena Cosumnes stripetail	IIPLE23020	None	None	G2	S2	
Crocanthemum suffrutescens Bisbee Peak rush-rose	PDCIS020F0	None	None	G2Q	S2	3.2
Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S2	
Elanus leucurus white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
Emys marmorata western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Eriogonum apricum var. apricum Ione buckwheat	PDPGN080F1	Endangered	Endangered	G2T1	S1	1B.1
Eriogonum apricum var. prostratum Irish Hill buckwheat	PDPGN080F2	Endangered	Endangered	G2T1	S1	1B.1
Eryngium pinnatisectum Tuolumne button-celery	PDAPI0Z0P0	None	None	G2	S2	1B.2
Fremontodendron decumbens Pine Hill flannelbush	PDSTE03030	Endangered	Rare	G1	S1	1B.2
Galium californicum ssp. sierrae El Dorado bedstraw	PDRUB0N0E7	Endangered	Rare	G5T1	S1	1B.2
Haliaeetus leucocephalus bald eagle	ABNKC10010	Delisted	Endangered	G5	S3	FP
Horkelia parryi Parry's horkelia	PDROS0W0C0	None	None	G2	S2	1B.2
Hydrochara rickseckeri Ricksecker's water scavenger beetle	IICOL5V010	None	None	G2?	S2?	
Ione Chaparral Ione Chaparral	CTT37D00CA	None	None	G1	S1.1	
Lasionycteris noctivagans silver-haired bat	AMACC02010	None	None	G5	S3S4	
Legenere limosa legenere	PDCAM0C010	None	None	G2	S2	1B.1

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Lepidurus packardi vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G4	S3S4	
Linderiella occidentalis California linderiella	ICBRA06010	None	None	G2G3	S2S3	
Navarretia myersii ssp. myersii pincushion navarretia	PDPLM0C0X1	None	None	G2T2	S2	1B.1
Northern Hardpan Vernal Pool Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
Oncorhynchus mykiss irideus steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
Packera layneae Layne's ragwort	PDAST8H1V0	Threatened	Rare	G2	S2	1B.2
Pekania pennanti fisher - West Coast DPS	AMAJF01021	Proposed Threatened	Candidate Threatened	G5T2T3Q	S2S3	SSC
Phrynosoma blainvillii coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
Rana draytonii California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
Riparia riparia bank swallow	ABPAU08010	None	Threatened	G5	S2	
Sagittaria sanfordii Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
Spea hammondii western spadefoot	AAABF02020	None	None	G3	S3	SSC
Sphenopholis obtusata prairie wedge grass	PMPOA5T030	None	None	G5	S2	2B.2
Thamnophis gigas giant gartersnake	ARADB36150	Threatened	Threatened	G2	S2	
Viburnum ellipticum oval-leaved viburnum	PDCPR07080	None	None	G4G5	S3?	2B.3
Wyethia reticulata El Dorado County mule ears	PDAST9X0D0	None	None	G2	S2	1B.2

Record Count: 56

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APPENDIX C

CNPS Inventory List

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CNPS California Native Plant Society

Plant List

Inventory of Rare and Endangered Plants

31 matches found. Click on scientific name for details

Search Criteria

Found in Quads 3812161, 3812068, 3812067, 3812151, 3812058, 3812057, 3812141 3812048 and 3812047;

Modify Search Criteria | Export to Excel | Modify Columns | Modify Sort | Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Allium jepsonii	Jepson's onion	Alliaceae	perennial bulbiferous herb	Apr-Aug	1B.2	S2	G2
Arctostaphylos myrtifolia	Ione manzanita	Ericaceae	perennial evergreen shrub	Nov-Mar	1B.2	S1S2	G1G2
Arctostaphylos nissenana	Nissenan manzanita	Ericaceae	perennial evergreen shrub	Feb-Mar	1B.2	S1	G1
Balsamorhiza macrolepis	big-scale balsamroot	Asteraceae	perennial herb	Mar-Jun	1B.2	S2	G2
Bryum chryseum	brassy bryum	Bryaceae	moss		4.3	S3	G5
Calandrinia breweri	Brewer's calandrinia	Montiaceae	annual herb	(Jan)Mar-Jun	4.2	S4	G4
Calystegia stebbinsii	Stebbins' morning-glory	Convolvulaceae	perennial rhizomatous herb	Apr-Jul	1B.1	S1	G1
Carex xerophila	chaparral sedge	Cyperaceae	perennial herb	Mar-Jun	1B.2	S2	G2
Ceanothus fresnensis	Fresno ceanothus	Rhamnaceae	perennial evergreen shrub	May-Jul	4.3	S4	G4
Ceanothus roderickii	Pine Hill ceanothus	Rhamnaceae	perennial evergreen shrub	Apr-Jun	1B.1	S1	G1
Chlorogalum grandiflorum	Red Hills soaproot	Agavaceae	perennial bulbiferous herb	May-Jun	1B.2	S2	G2
Clarkia biloba ssp. brandegeeae	Brandegee's clarkia	Onagraceae	annual herb	May-Jul	4.2	S4	G4G5T4
Clarkia virgata	Sierra clarkia	Onagraceae	annual herb	May-Aug	4.3	S3	G3
Claytonia parviflora ssp. grandiflora	streambank spring beauty	Montiaceae	annual herb	Feb-May	4.2	S3	G5T3
Crocanthemum suffrutescens	Bisbee Peak rush-rose	Cistaceae	perennial evergreen shrub	Apr-Aug	3.2	S2	G2Q
Erigeron miser	starved daisy	Asteraceae	perennial herb	Jun-Oct	1B.3	S3?	G3?
Eriogonum apricum var. apricum	Ione buckwheat	Polygonaceae	perennial herb	Jul-Oct	1B.1	S1	G2T1
Eriogonum apricum var. prostratum	Irish Hill buckwheat	Polygonaceae	perennial herb	Jun-Jul	1B.1	S1	G2T1
Eriophyllum jepsonii	Jepson's woolly sunflower	Asteraceae	perennial herb	Apr-Jun	4.3	S3	G3

Eryngium pinnatisectum	Tuolumne button-celery	Apiaceae	annual / perennial herb	May-Aug	1B.2	S2	G2
Fremontodendron decumbens	Pine Hill flannelbush	Malvaceae	perennial evergreen shrub	Apr-Jul	1B.2	S1	G1
Galium californicum ssp. sierrae	El Dorado bedstraw	Rubiaceae	perennial herb	May-Jun	1B.2	S1	G5T1
Horkelia parryi	Parry's horkelia	Rosaceae	perennial herb	Apr-Sep	1B.2	S2	G2
Legenere limosa	legenere	Campanulaceae	annual herb	Apr-Jun	1B.1	S2	G2
Navarretia myersii ssp. myersii	pincushion navarretia	Polemoniaceae	annual herb	Apr-May	1B.1	S2	G2T2
Packera layneae	Layne's ragwort	Asteraceae	perennial herb	Apr-Aug	1B.2	S2	G2
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Oct(Nov)	1B.2	S3	G3
Sphenopholis obtusata	prairie wedge grass	Poaceae	perennial herb	Apr-Jul	2B.2	S2	G5
Trichostema rubisepalum	Hernandez bluecurls	Lamiaceae	annual herb	Jun-Aug	4.3	S4	G4
Viburnum ellipticum	oval-leaved viburnum	Adoxaceae	perennial deciduous shrub	May-Jun	2B.3	S3?	G4G5
Wyethia reticulata	El Dorado County mule ears	Asteraceae	perennial herb	Apr-Aug	1B.2	S2	G2

Suggested Citation

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APPENDIX D

Plant and Wildlife Species Observed

Plant Species Observed.

Family	Scientific Name[1]	Common Name	N/I[2]	CAL-IPC[3]
EUDICOTS				
Amaranthaceae	*Amaranthus albus*	Tumbleweed	I	
Asteraceae	*Carduus pycnocephalus* ssp. *pycnocephalus*	Italian thistle	I	Moderate
	Leontodon taraxacoides	Hairy hawkbit	I	
Brassicaceae	*Sisymbrium officinale*	Hedge mustard	I	
Caryophyllaceae	*Spergula arvensis*	Stickwort, starwort	I	
Fabaceae	*Acmispon americanus* var. *americanus*	Deervetch, deerweed	N	
	Trifolium glomeratum	Clustered clover	I	
	Trifolium hirtum	Rose clover	I	Limited
Gentianaceae	*Zeltnera muehlenbergii*	Monterey centaury	N	
Lythraceae	*Lythrum hyssopifolia*	Loosestrife	I	Limited
Malvaceae	*Malva parviflora*	Cheeseweed, little mallow	I	
Polemoniaceae	*Navarretia intertexta*	Navarretia	N	
Polygonaceae	*Polygonum aviculare*	Knotweed	I	Limited
Polygonaceae	*Rumex crispus*	Curly dock	I	Limited
MONOCOTS				
Juncaceae	*Juncus bufonius*	Toad rush	N	
Poaceae	*Avena barbata*	Slender wild oat	I	Moderate
	Brachypodium distachyon	False brome	I	Moderate
	Bromus diandrus	Ripgut grass	I	Moderate
	Bromus hordeaceus	Soft chess	I	Limited
	Digitaria sanguinalis	Hairy crab grass	I	
	Echinochloa colona	Barnyard grass	I	
	Elymus caput-medusae	Medusa head	I	High
	Festuca perennis	Rye grass	I	Moderate
	Gastridium phleoides	Nit grass	I	
	Hordeum marinum ssp. *gussoneanum*	Mediterranean barley	I	Moderate
	Hordeum murinum ssp. *leporinum*	Hare barley	I	Moderate
	Polypogon monspeliensis	Annual beard grass, rabbitfoot grass	I	Limited
Themidaceae	*Dichelostemma capitatum*	Blue dicks	N	

[1] Taxonomy follows Baldwin et al. 2012. [2] N = Native to CA; I = Introduced. [3] Negative ecological impact according to the California Invasive Plant Council (Cal-IPC 2006).

Wildlife Species Observed

COMMON NAME	SCIENTIFIC NAME
BIRDS	
Acorn woodpecker	*Melanerpes formicivorus*
American robin	*Turdus migratorius*
Black phoebe	*Sayornis nigricans*
Lark sparrow	*Chondestes grammacus*
Lesser goldfinch	*Carduelis psaltria*
Mourning dove	*Zenaida macroura*
Oak titmouse	*Baeolophus inornatus*
Red-shouldered hawk	*Buteo lineatus*
Tree swallow	*Tachycineta bicolor*
Western bluebird	*Sialia mexicana*
Wild turkey	*Meleagris gallopavo*

APPENDIX E

Photographs

Photo 1. View facing west at location of proposed access road. Blue oak woodland is visible north and south of the California annual grassland community.

Photo 2. View facing west at location of proposed wireless telecommunications facility.

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Photo 3. View facing south at the culvert and upland swale intersecting the BSA.

Photo 4. View facing north at the northern extent of the upland swale in the BSA.

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Photo 5. View facing east at the location of the proposed access road.

Photo 6. View facing southwest at the paved private driveway. The ruderal community occurs adjacent to the road in the foreground. Blue oak woodland occurs on either side of the road in the background.

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