



AT&T

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City of Santa Rosa  
Planning & Economic  
Development Department

RECEIVED

SITE NUMBER: CCL06438  
SITE NAME: CANINE COMPANIONS  
SITE TYPE: RAWLAND  
ADDRESS: 2965 DUTTON AVE  
SANTA ROSA, CA 95407

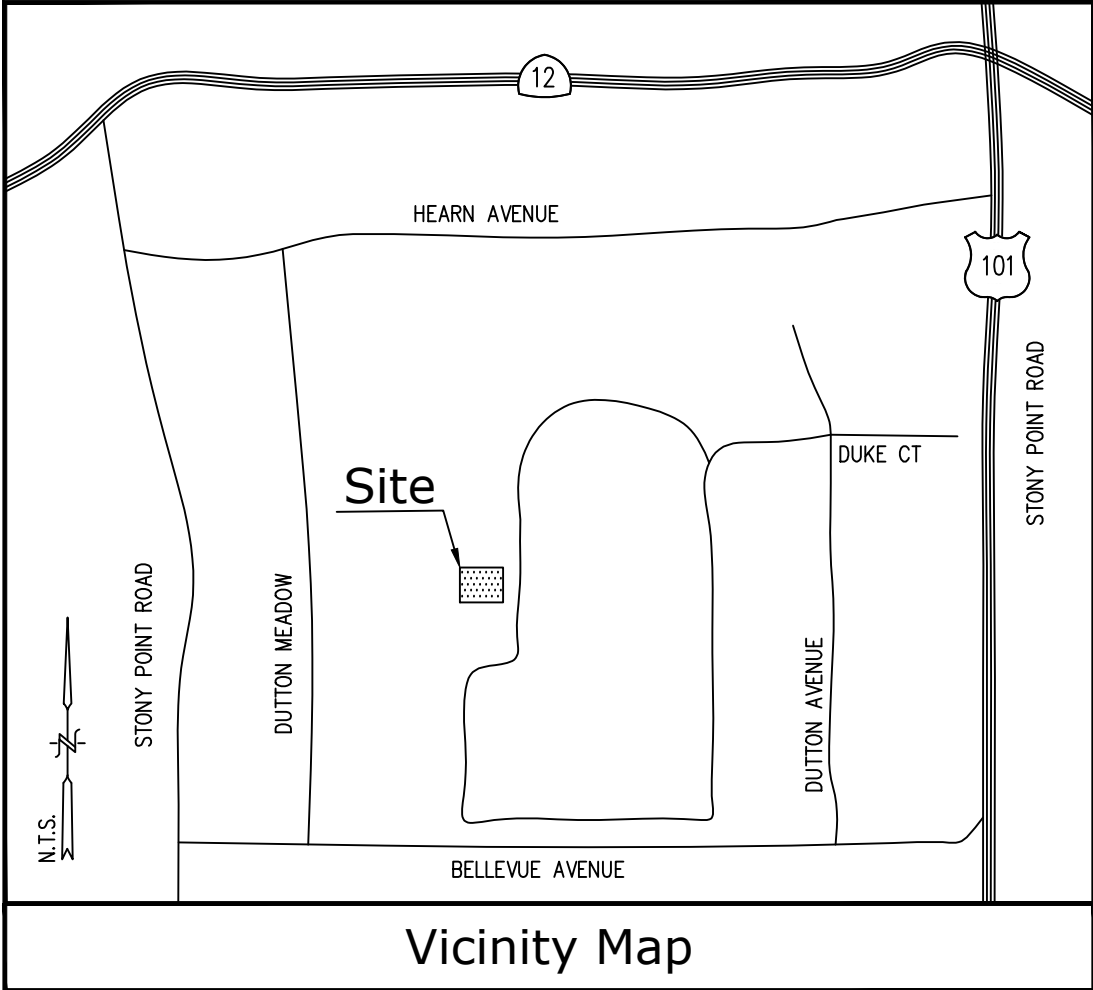
FA #: 14537224  
PACE #: MRSFR048909  
PTN #: 3705A0GBD4  
USID: 225498



**CCL06438**  
**CANINE COMPANIONS**  
  
2965 DUTTON AVE  
SANTA ROSA, CA 95407  
  
FA #: 14537224  
PACE #: MRSFR048909  
PTN #: 3705A0GBD4  
USID #: 225498

PROJECT TEAM		VICINITY MAP		CODE COMPLIANCE		SHEET INDEX																	
<p><u>APPLICANT / LESSEE:</u></p> <p>ALYSSA FERRIS, AT&amp;T 5001 EXECUTIVE PARKWAY, 4W5501 SAN RAMON, CA 94583 PHONE: (530) 966-2612 EMAIL: ALYSSA.BRANDTMAN@ATT.COM</p> <p><u>CONSTRUCTION MANAGER:</u></p> <p>DAN RICO VINCULUMS SERVICES, LLC PHONE: (925) 876-6227 EMAIL: drico@vinculums.com</p> <p><u>RF ENGINEER:</u></p> <p>HARPREET SINGH EMAIL: hs357s@att.com PHONE: (248) 885-5496</p> <p><u>ARCHITECT / ENGINEER:</u></p> <p>ALL STATES ENGINEERING &amp; SURVEYING CONTACT: ROGER FLORES EMAIL: roger@zalzal.com O: (949) 273-0996x109 M: (562) 841-1264</p> <p><u>PROJECT MANAGER:</u></p> <p>J5 INFRASTRUCTURE PARTNERS CONTACT: MISAKO HILL EMAIL: mhill@j5ip.com PHONE: (415) 533-2540</p> <p><u>SITE ACQUISITION:</u></p> <p>J5 INFRASTRUCTURE PARTNERS DEREK TURNER EMAIL: dturner@j5ip.com PHONE: (415) 420-4922</p>				<p>ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <ol style="list-style-type: none"><li>2016 CALIFORNIA ADMINISTRATIVE CODE, CHAPTER 10, PART 1, TITLE 24 CODE OF REGULATIONS</li><li>2016 CALIFORNIA BUILDING CODE (CBC)</li><li>2016 CALIFORNIA RESIDENTIAL CODE (CRC) WITH APPENDIX H, PATIO COVERS, BASED ON THE 2012 IRC (PART 2.5)</li><li>2016 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CALGREEN) (PART 11) (AFFECTED ENERGY PROVISIONS ONLY)</li><li>2016 CALIFORNIA FIRE CODE (CFC), BASED ON THE 2012 IFC, WITH CALIFORNIA AMENDMENTS (PART 9)</li><li>2016 CALIFORNIA MECHANICAL CODE (CMC), BASED ON THE 2012 UMC (PART 4)</li><li>2016 CALIFORNIA PLUMBING CODE (CPC), BASED ON THE 2012 UPC (PART 5)</li><li>2016 CALIFORNIA ELECTRICAL CODE (CEC) WITH CALIFORNIA AMENDMENTS, BASED ON THE 2011 NEC (PART 3)</li><li>2016 CALIFORNIA ENERGY CODE (CEC)- PART 6</li><li>ANSI / EIA-TIA-222-G</li><li>2016 NFPA 101, LIFE SAFETY CODE</li><li>2016 NFPA 72, NATIONAL FIRE ALARM CODE</li><li>2016 NFPA 13, FIRE SPRINKLER CODE</li></ol>		<table><tr><td>T-1</td><td>TITLE SHEET</td></tr><tr><td>LS-1</td><td>TOPOGRAPHIC SURVEY</td></tr><tr><td>A-1</td><td>OVERALL SITE PLAN</td></tr><tr><td>A-2</td><td>ENLARGED SITE PLAN</td></tr><tr><td>A-3</td><td>EQUIPMENT LAYOUT PLAN</td></tr><tr><td>A-4</td><td>ANTENNA PLAN &amp; RF SCHEDULE</td></tr><tr><td>A-5</td><td>ELEVATIONS</td></tr><tr><td>E-1</td><td>SINGLE-LINE DIAGRAM &amp; PANEL SCHEDULE</td></tr></table>		T-1	TITLE SHEET	LS-1	TOPOGRAPHIC SURVEY	A-1	OVERALL SITE PLAN	A-2	ENLARGED SITE PLAN	A-3	EQUIPMENT LAYOUT PLAN	A-4	ANTENNA PLAN & RF SCHEDULE	A-5	ELEVATIONS	E-1	SINGLE-LINE DIAGRAM & PANEL SCHEDULE
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SITE INFORMATION		GENERAL CONTRACTOR NOTES		DRIVING DIRECTIONS		PROJECT DESCRIPTION																	
<p>PROPERTY OWNER: CANINE COMPANIONS FOR INDEPENDENCE PO BOX 446 SANTA ROSA CA 95402-0446</p> <p>JURISDICTION: CITY OF SANTA ROSA A.P.N.: 043-135-031 CURRENT ZONING: IL - COMMERCIAL EXISTING USE: MISCELLANEOUS PROPOSED USE: MULTITUDE, COMMS FACILITY LATITUDE (NAD 83): 38° 24' 28.77" (38.407992) LONGITUDE (NAD 83): 122° 43' 31.19" (-122.725331)</p> <p>ACCESSIBILITY REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS NOT REQUIRED PER CBC2016, SECTION 11B-203.4 (LIMITED ACCESS SPACE)</p> <p>POWER AGENCY: PG&amp;E</p> <p>TELEPHONE AGENCY: AT&amp;T</p> <p>RFDS VERSION: 2.0 DATE UPDATED: 01/26/2019</p>		<p>DO NOT SCALE DRAWINGS</p> <p>THESE PLANS ARE FORMATTED TO BE FULL SIZE AT 24" X 36". CONTRACTORS SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.</p> <p><b>GENERAL NOTES</b></p> <p>THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.</p> <p><b>STATEMENTS</b></p> <p>STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.</p> <p>ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT EXISTING AND/OR PROPOSED COMPONENTS, REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.</p>		<p>5001 EXECUTIVE PKWY, SAN RAMON, CA 94583</p> <ol style="list-style-type: none"><li>GET ON I-680 N FROM EXECUTIVE PKWY, CAMINO RAMON AND CROW CANYON RD</li><li>HEAD SOUTHWEST, TURN RIGHT, TURN LEFT TOWARD EXECUTIVE PKWY, TURN RIGHT TOWARD EXECUTIVE PKWY</li><li>TURN RIGHT ONTO EXECUTIVE PKWY, TURN LEFT ONTO CAMINO RAMON</li><li>USE THE LEFT 2 LANES TO TURN LEFT ONTO CROW CANYON RD.</li><li>PASS BY U.S. BANK BRANCH (ON THE RIGHT) USE THE RIGHT 2 LANES TO MERGE ONTO I-680 N VIA THE RAMP TO SACRAMENTO</li><li>CONTINUE ON I-680 N, TAKE I-780 W TO CA-37 W IN VALLEJO, TAKE EXIT 33 FROM I-80 E</li><li>MERGE ONTO I-680 N, KEEP LEFT AT THE FORK TO STAY ON I-680 N(TOLL ROAD)</li><li>KEEP LEFT AT THE FORK TO CONTINUE ON I-680(TOLL ROAD)</li><li>KEEP RIGHT AT THE FORK TO STAY ON I-680(TOLL ROAD)</li><li>USE THE LEFT 2 LANES TO TAKE EXIT 58A FOR INTERSTATE 780 TOWARD BENICIA/VALLEJO</li><li>CONTINUE ONTO I-780 W, TAKE EXIT 18 TOWARD SACRAMENTO, MERGE ONTO I-80 E</li><li>TAKE EXIT 33 FOR CA-37 TOWARD NAPA</li><li>GET ON US-101 N IN NOVATO, CONTINUE ONTO CA-37 W</li><li>USE THE RIGHT LANE TO MERGE ONTO US-101 N VIA THE RAMP TO SANTA ROSA/EUREKA</li><li>FOLLOW US-101 N TO TODD RD IN SONOMA COUNTY, TAKE EXIT 485 FROM US-101 N</li><li>CONTINUE ONTO TODD RD, TURN RIGHT ONTO TODD RD OVERPASS</li><li>TURN RIGHT ONTO S MOORLAND AVE, TURN LEFT ONTO TODD RD, TURN RIGHT ONTO STANDISH AVE</li><li>CONTINUE ONTO DUTTON AVE, DESTINATION WILL BE ON THE LEFT</li><li>2965 DUTTON AVE, SANTA ROSA, CA 95407</li></ol>		<p>INSTALLATION OF A NEW SITE BUILD, UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:</p> <p><b>ANTENNA SOW:</b></p> <ul style="list-style-type: none"><li>INSTALLATION OF 65'-0" HIGH MONOPINE, BY OTHERS</li><li>INSTALLATION OF (3) AT&amp;T SECTORS</li><li>INSTALLATION OF (12) AT&amp;T PANEL ANTENNAS</li><li>INSTALLATION OF (30) AT&amp;T REMOTE RADIO HEADS (RRH's)</li><li>INSTALLATION OF (6) DC-9 SURGE SUPPRESSORS</li><li>INSTALLATION OF (1) GPS ANTENNA</li><li>INSTALLATION OF ICE BRIDGE</li></ul> <p><b>EQUIPMENT SOW:</b></p> <ul style="list-style-type: none"><li>INSTALLATION OF (1) AT&amp;T PREFABRICATED WALK-IN CLOSET "WIC"</li><li>INSTALLATION OF (1) EMERSON BATTERY RACK W/ (8) BATTERIES</li><li>INSTALLATION OF (1) HYBRID EQUIPMENT RACK</li><li>INSTALLATION OF (4) FIBER TRUNKS</li><li>INSTALLATION OF FIBER CABLES FROM EQUIPMENT AREA TO PROPOSED ANTENNAS</li><li>INSTALLATION OF (1) 200A AC POWER PANEL</li><li>INSTALLATION OF (1) GEN PLUG</li><li>INSTALLATION OF (1) CIENA AND HOFFMAN BOX</li><li>INSTALLATION OF A 15'X15' CONCRETE SLAB AND WOODEN FENCE ENCLOSURE</li></ul>																	
PROFESSIONAL STAMP:		NOT TO BE USED FOR CONSTRUCTION		SHEET NAME:		TITLE SHEET																	
SHEET TITLE:				SHEET TITLE:		T-1																	





Title Report

THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE REPORT.  
PREPARED BY:  
ORDER NO.:  
DATED:

Legal Description

LOT 4 OF PARCEL MAP NO. 6988, IN THE CITY OF SANTA ROSA, COUNTY OF SOMOMA, STATE OF CALIFORNIA,  
FILED IN BOOK 305, PAGES 3-4, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

Assessor's Parcel No.

043-135-031

Easements

NOT AVAILABLE

Access Easement/Lease Area

TO BE DETERMINED

Geographic Coordinates at XXXXXXX

TO BE DETERMINED  
1983 DATUM: LATITUDE XX° XX' XX.XX"N LONGITUDE XXX° XX' XXX.XX"W  
ELEVATION = XXX.X FEET ABOVE MEAN SEA LEVEL

CERTIFICATION:  
THE LATITUDE AND LONGITUDE SHOWN ABOVE ARE ACCURATE TO WITHIN +/- 15 FEET HORIZONTALLY AND  
THAT THE ELEVATIONS SHOWN ABOVE ARE ACCURATE TO WITHIN +/- 3 FEET VERTICALLY. THE HORIZONTAL  
DATUM (GEOGRAPHIC COORDINATES) IS IN TERMS OF THE NORTH AMERICAN DATUM OF 1983 (NAD 83) AND IS  
EXPRESSED IN DEGREES (°), MINUTES (') AND SECONDS ("). TO THE NEAREST HUNDREDTH OF A SECOND. THE  
VERTICAL DATUM (ELEVATIONS) IS IN TERMS OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)  
AND IS DETERMINED TO THE NEAREST TENTH OF A FOOT.

Basis of Bearings

THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM (CCS 83),  
ZONE 2, 1983 DATUM, DEFINED BY SECTIONS 8801 TO 8819 OF THE CALIFORNIA PUBLIC RESOURCES CODE,  
BASED UPON STATIC GPS OBSERVATION, HOLDING THE CSRC DATA POINT "P196"

Bench Mark

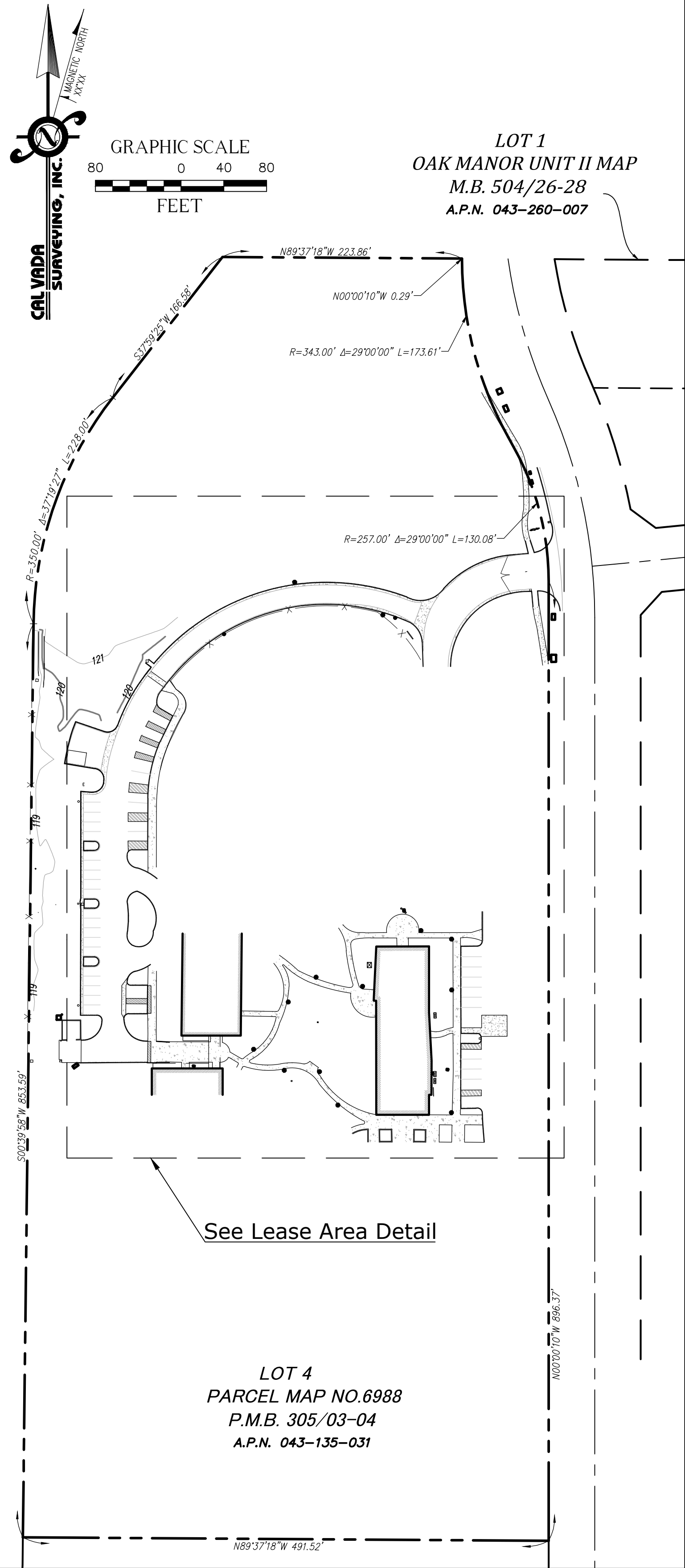
THE ELEVATIONS SHOWN HEREON ARE BASED UPON STATIC GPS OBSERVATION,  
HOLDING THE CSRC DATA POINT "P196"; ELEVATION = 402.12 FEET (NAVD 88)

Date of Survey

DECEMBER 9, 2019

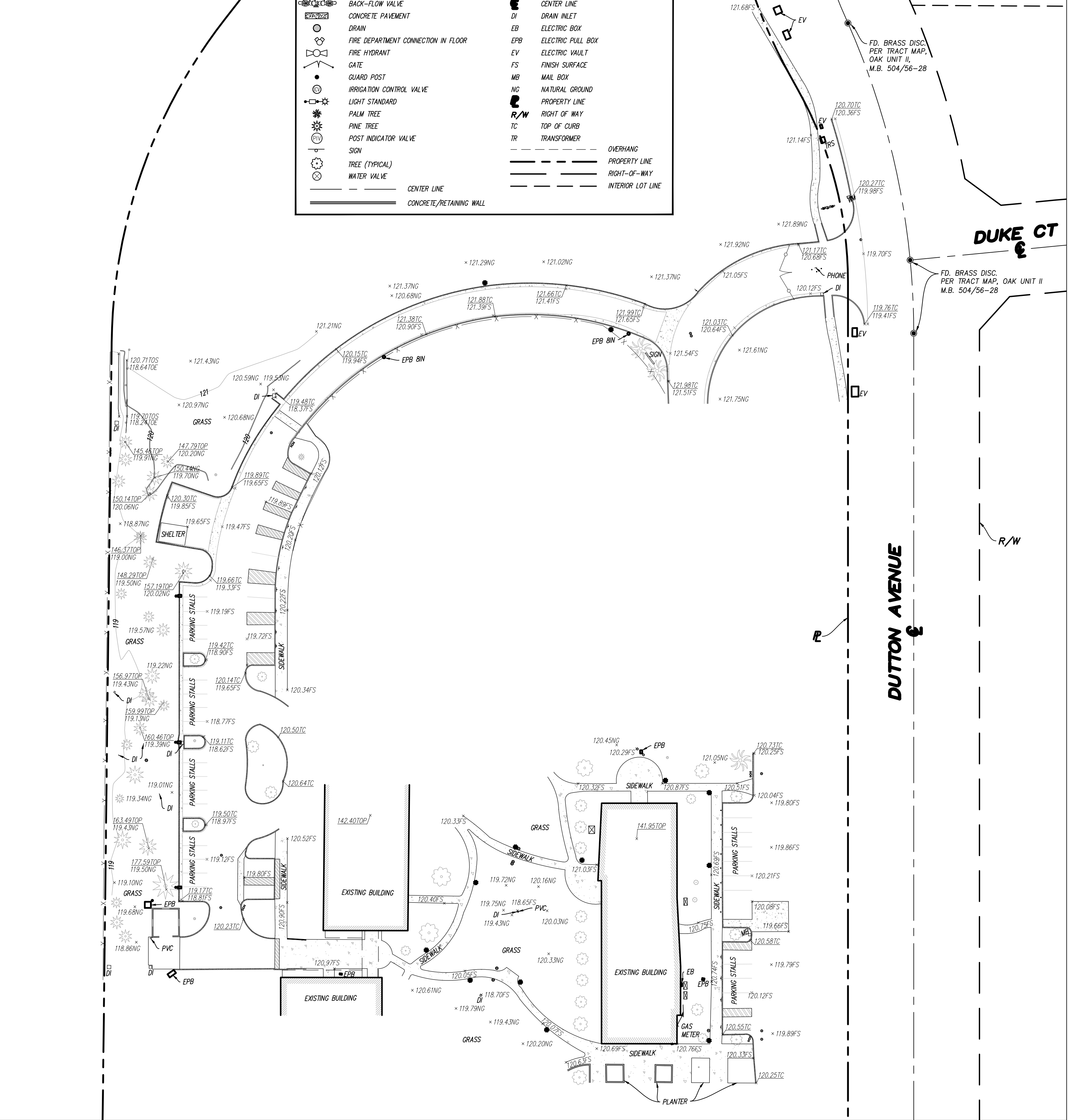
Boundary Detail

SCALE: 1"=80'

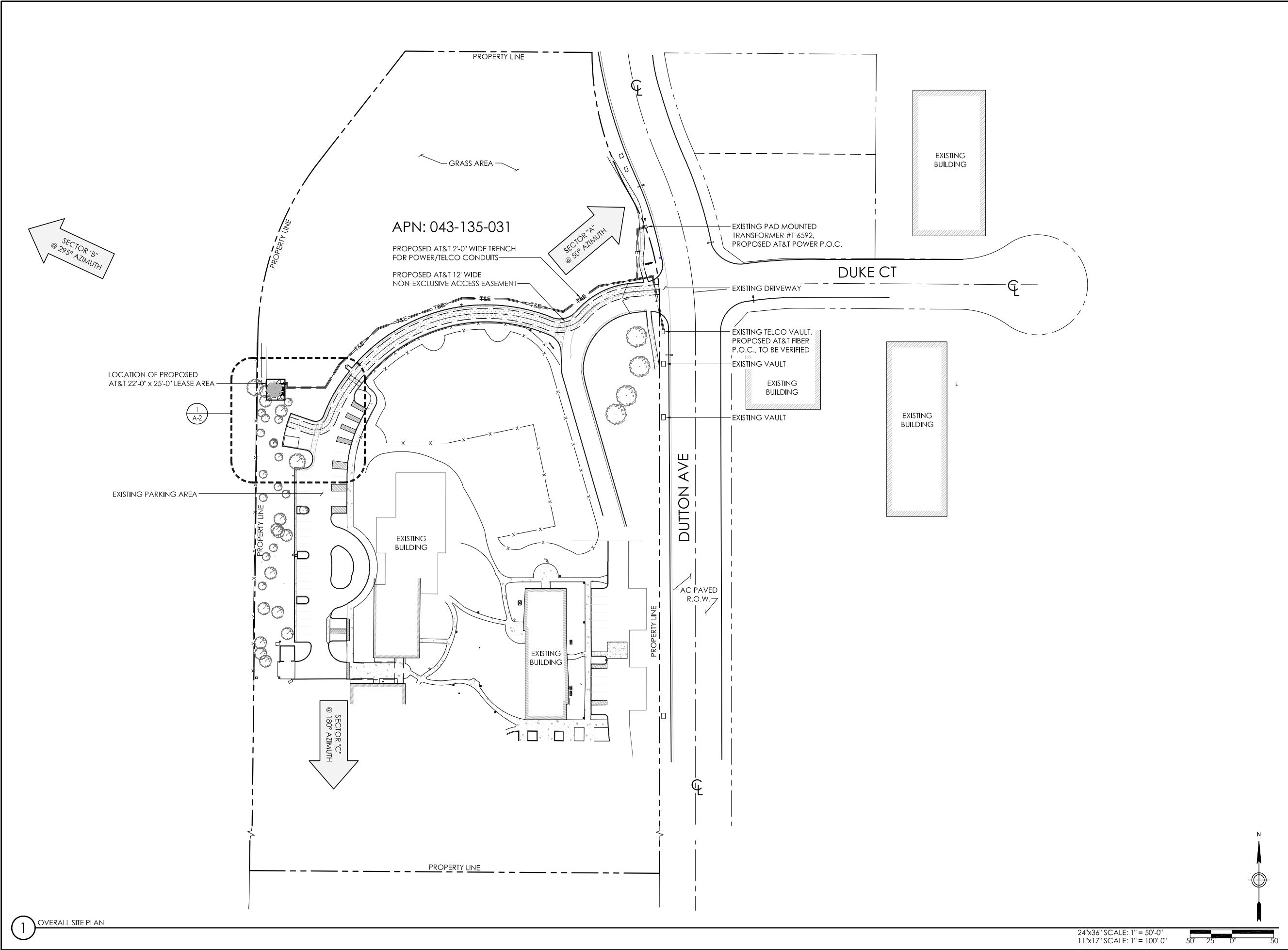



Lease Area Detail


SCALE: 1"=40'




TOPOGRAPHIC SURVEY



APPLICANT:  
  
1452 EDINGER AVE.  
TUSTIN, CALIFORNIA 92780

VENDOR:  
  
AZ - CA - CO - ID - NM - NV - TX - UT  
2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 92614

VENDOR:  
  
23675 BIRCHER DRIVE  
LAKE FOREST, CA 92630

SITE INFORMATION:  
**CCL06438**  
**CANINE COMPANIONS**  
2965 DUTTON AVE  
SANTA ROSA, CA 95407  
FA #: 14537224  
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DESIGN RECORD:

0	06/02/20	ZDs FOR SUBMITTAL
C	03/26/20	REV PER REDLINES
B	03/05/20	100%ZDs
A	01/21/20	90%ZDs
REV	DATE	DESCRIPTION

PROFESSIONAL STAMP:

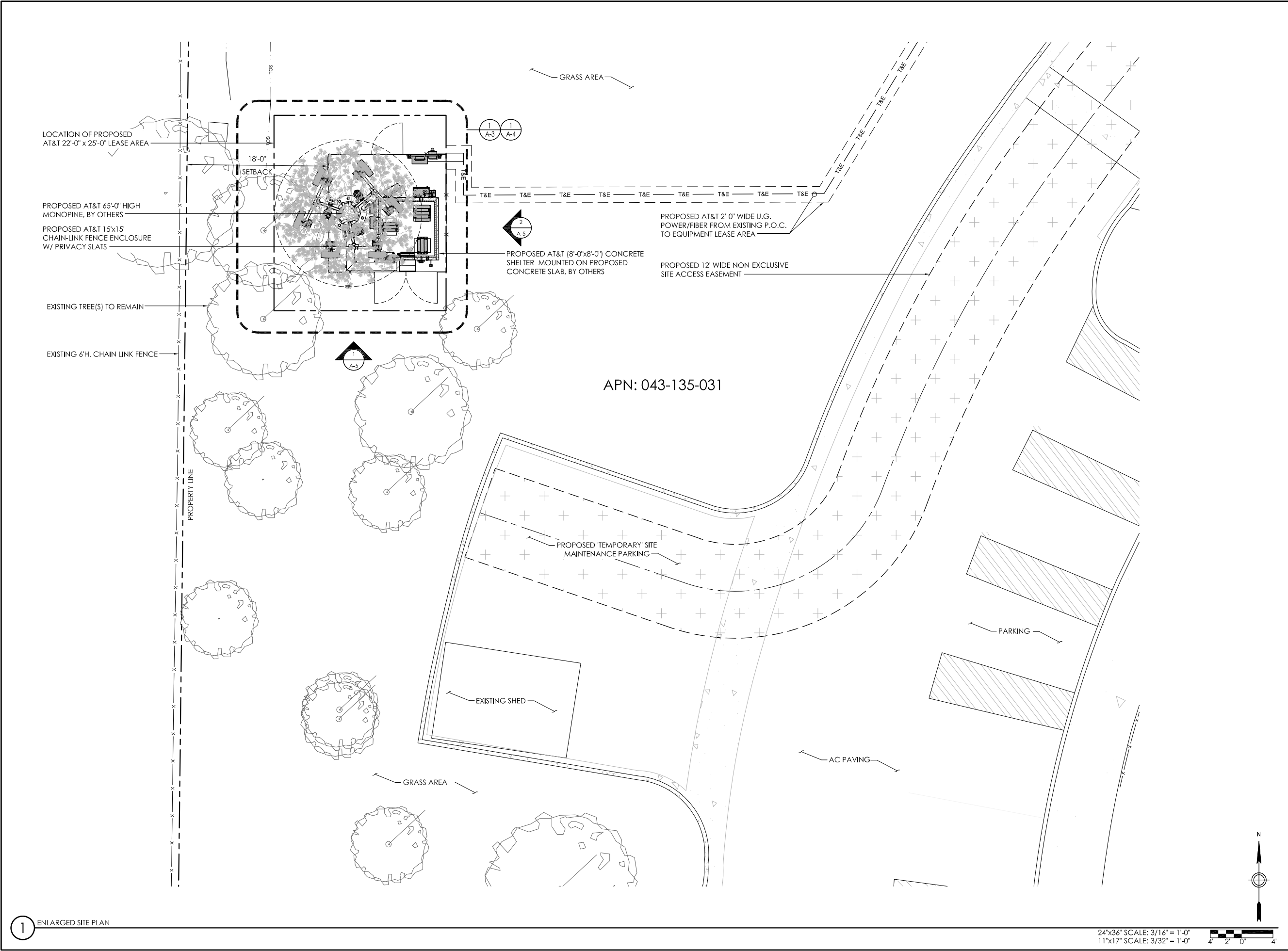
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It is a violation of law for any  
persons, unless they are acting  
under the direction of a  
licensed professional engineer,  
to alter this document


SHEET NAME:  
**OVERALL SITE PLAN**


SHEET TITLE:  
**A-1**





APPLICANT:  
  
1452 EDINGER AVE.  
TUSTIN, CALIFORNIA 92780

VENDOR:  
  
AZ - CA - CO - ID - NM - NV - TX - UT  
2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 92614

VENDOR:  
  
ENGINEERING & SURVEYING  
23675 BIRCHER DRIVE  
LAKE FOREST, CA 92630

SITE INFORMATION:  
**CCL06438**  
**CANINE COMPANIONS**  
2965 DUTTON AVE  
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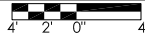
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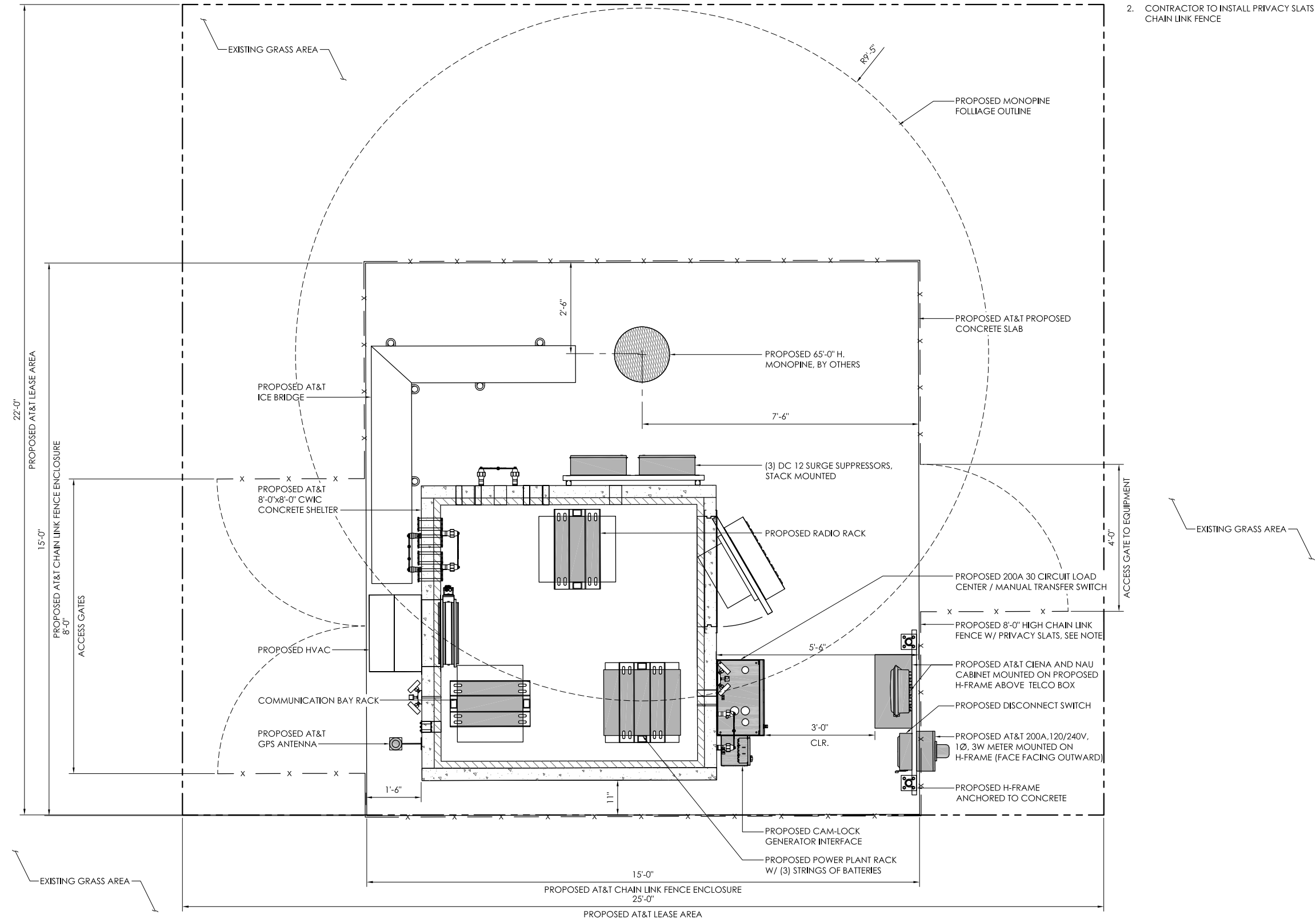
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SHEET NAME:  
**ENLARGED SITE PLAN**

SHEET TITLE:  
**A-2**

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





- NOTES:
1. PROPOSED PANEL ANTENNAS NOT SHOWN FOR CLARITY. SEE ANTENNA LAYOUT ON SHEET A-4.
  2. CONTRACTOR TO INSTALL PRIVACY SLATS ON PROPOSED CHAIN LINK FENCE

APPLICANT:

**AT&T**

1452 EDINGER AVE.  
TUSTIN, CALIFORNIA 92780

VENDOR:

**INFRASTRUCTURE**

AZ - CA - CO - ID - NM - NV - TX - UT

2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 92614

VENDOR:

**ALLSTATES**

ENGINEERING & SURVEYING

23675 BIRCHER DRIVE  
LAKE FOREST, CA 92630

SITE INFORMATION:

**CCL06438**

**CANINE COMPANIONS**

2965 DUTTON AVE  
SANTA ROSA, CA 95407

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SHEET NAME:

**EQUIPMENT LAYOUT PLAN**

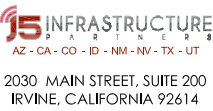
SHEET TITLE:

**A-3**

SECTOR		RRH TYPE		RRH LOCATION (DISTANCE FROM ANTENNA)	MINIMUM CLEARANCES			
		PROPOSED			ABOVE	BELOW	SIDES	
ALPHA	POS.1	4449 B5/B12 & 8843 B2/B66A		UP	±10'-0"	16"	12"	8"
	POS.2	4449 B5/B12 & 8843 B2/B66A		UP	±10'-0"	16"	12"	8"
	POS.3	4478 B14 & 4415 B30		UP	±10'-0"	16"	12"	8"
	POS.4	4478 B14 & 4415 B30		UP	±10'-0"	16"	12"	8"
	POS.4	(2) RRUS11-E2 (FUTURE)		UP	±10'-0"	16"	12"	8"
BETA	POS.1	4449 B5/B12 & 8843 B2/B66A		UP	±10'-0"	16"	12"	8"
	POS.2	4449 B5/B12 & 8843 B2/B66A		UP	±10'-0"	16"	12"	8"
	POS.3	4478 B14 & 4415 B30		UP	±10'-0"	16"	12"	8"
	POS.4	4478 B14 & 4415 B30		UP	±10'-0"	16"	12"	8"
	POS.4	(2) RRUS11-E2 (FUTURE)		UP	±10'-0"	16"	12"	8"
GAMMA	POS.1	4449 B5/B12 & 8843 B2/B66A		UP	±10'-0"	16"	12"	8"
	POS.2	4449 B5/B12 & 8843 B2/B66A		UP	±10'-0"	16"	12"	8"
	POS.3	4478 B14 & 4415 B30		UP	±10'-0"	16"	12"	8"
	POS.4	4478 B14 & 4415 B30		UP	±10'-0"	16"	12"	8"
	POS.4	(2) RRUS11-E2 (FUTURE)		UP	±10'-0"	16"	12"	8"

FINAL ANTENNA AND TRANSMISSION CABLE REQUIREMENTS								
SECTOR		TECHNOLOGY	ANTENNA	SIZE	AZIMUTH	TRANSMISSION LINES (LENGTH FT. +/-)		
			MFR./MODEL #			FIBER LENGTH	JUMPER TYPE	TYPE
SECTOR "A"	A1	LTE 700/850/1900	CCI BSA-M65R-BUU-H6-K	6'-0"	50°	80'	1/2"Ø COAX	FIBER
	A2	LTE 700, AWS	CCI BSA-M65R-BUU-H6-K	6'-0"	50°	80'	1/2"Ø COAX	FIBER
	A3	LTE 850/WCS	CCI BSA-M65R-BUU-H6-K	6'-0"	50°	80'	1/2"Ø COAX	FIBER
	A4	LTE 700 (B29)	CCI BSA-M65R-BUU-H6-K	6'-0"	50°	80'	1/2"Ø COAX	FIBER
SECTOR "B"	B1	LTE 700/850/1900	CCI BSA-M65R-BUU-H6-K	6'-0"	295°	80'	1/2"Ø COAX	FIBER
	B2	LTE 700, AWS	CCI BSA-M65R-BUU-H6-K	6'-0"	295°	80'	1/2"Ø COAX	FIBER
	B3	LTE 850/WCS	CCI BSA-M65R-BUU-H6-K	6'-0"	295°	80'	1/2"Ø COAX	FIBER
	B4	LTE 700 (B29)	CCI BSA-M65R-BUU-H6-K	6'-0"	295°	80'	1/2"Ø COAX	FIBER
SECTOR "C"	C1	LTE 700/850/1900	CCI BSA-M65R-BUU-H6-K	6'-0"	180°	80'	1/2"Ø COAX	FIBER
	C2	LTE 700, AWS	CCI BSA-M65R-BUU-H6-K	6'-0"	180°	80'	1/2"Ø COAX	FIBER
	C3	LTE 850/WCS	CCI BSA-M65R-BUU-H6-K	6'-0"	180°	80'	1/2"Ø COAX	FIBER
	C4	LTE 700 (B29)	CCI BSA-M65R-BUU-H6-K	6'-0"	180°	80'	1/2"Ø COAX	FIBER

- NOTES TO CONTRACTOR:
- CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
  - CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.



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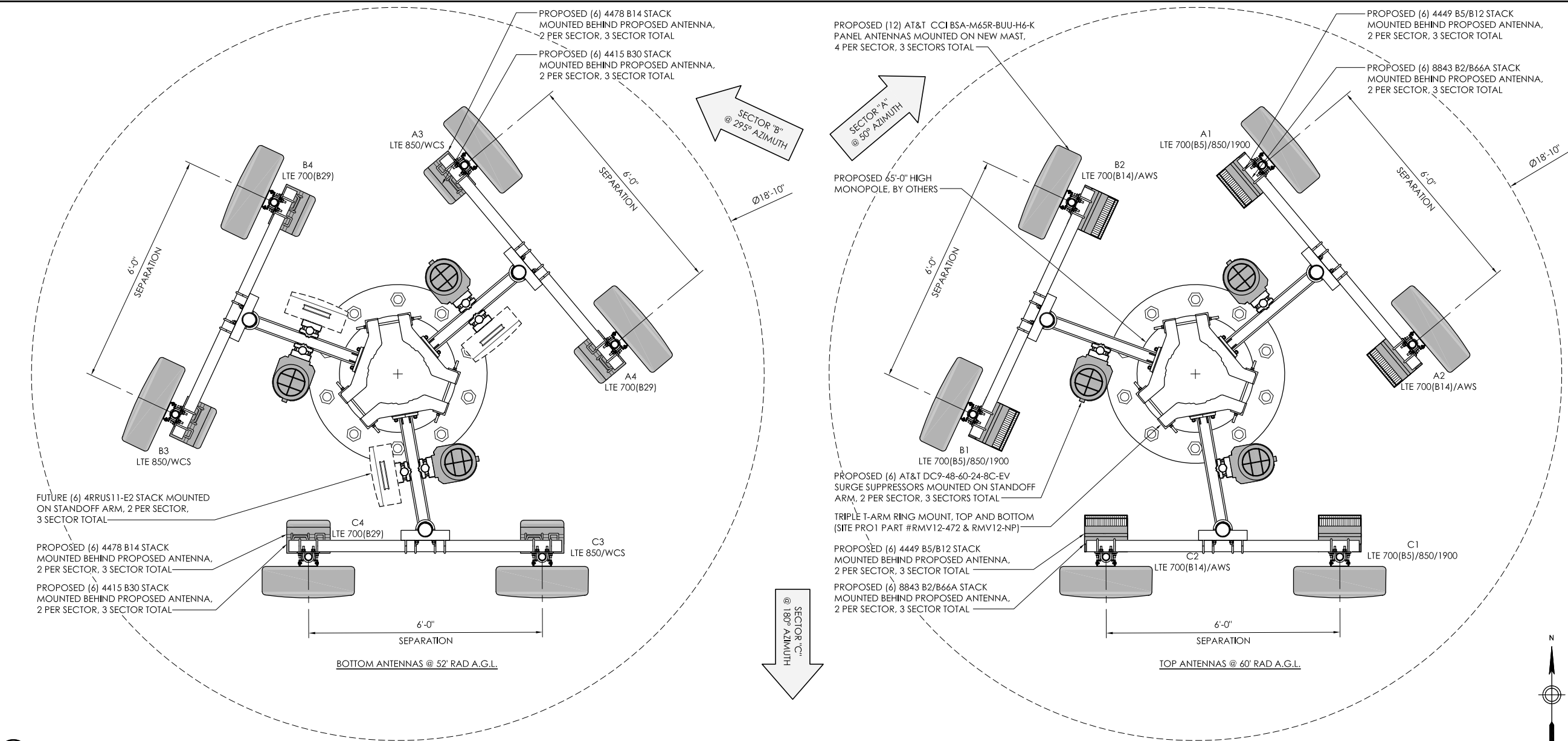
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ANTENNA PLAN & RF SCHEDULE

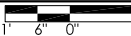
A-4

2 RF SCHEDULE

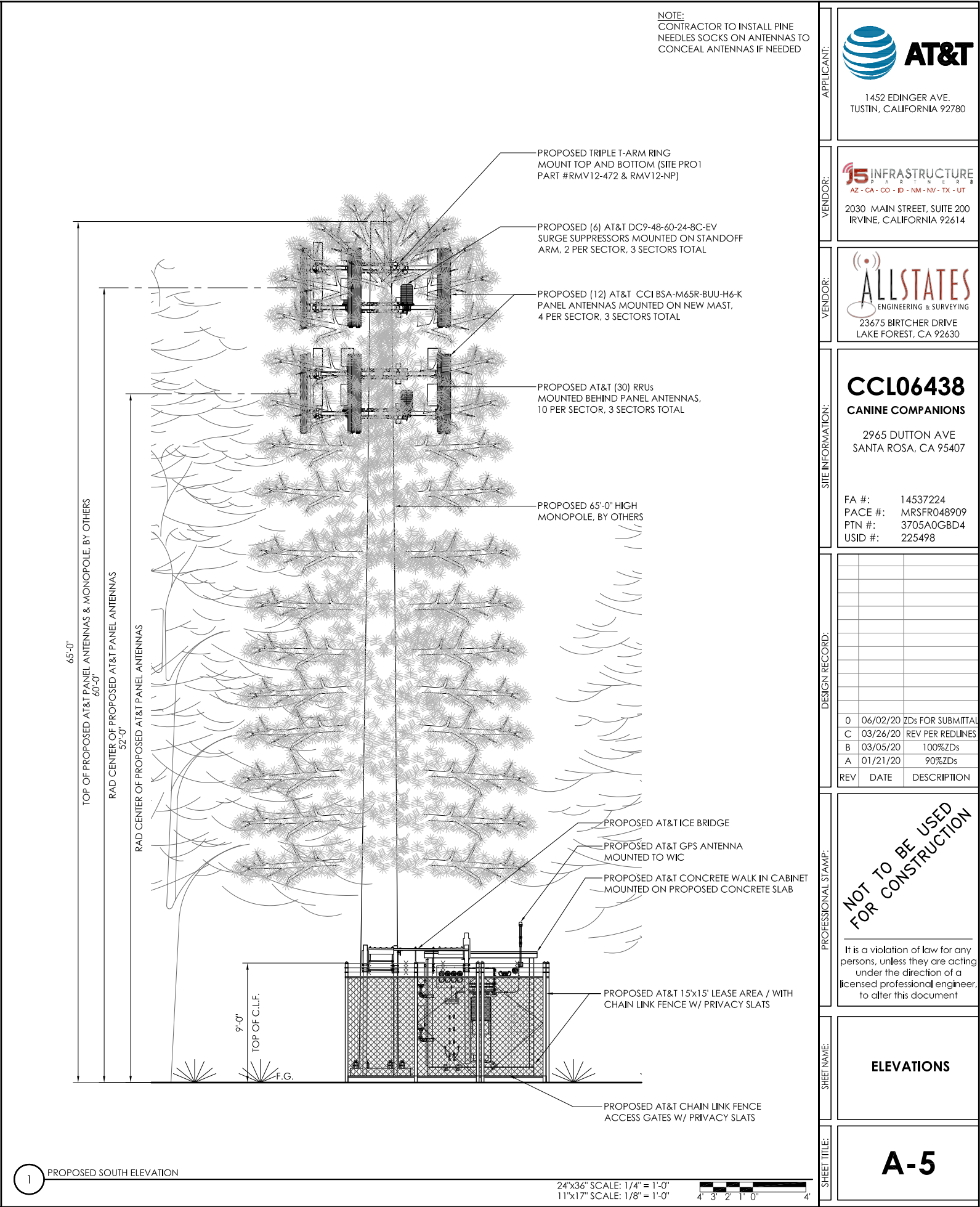
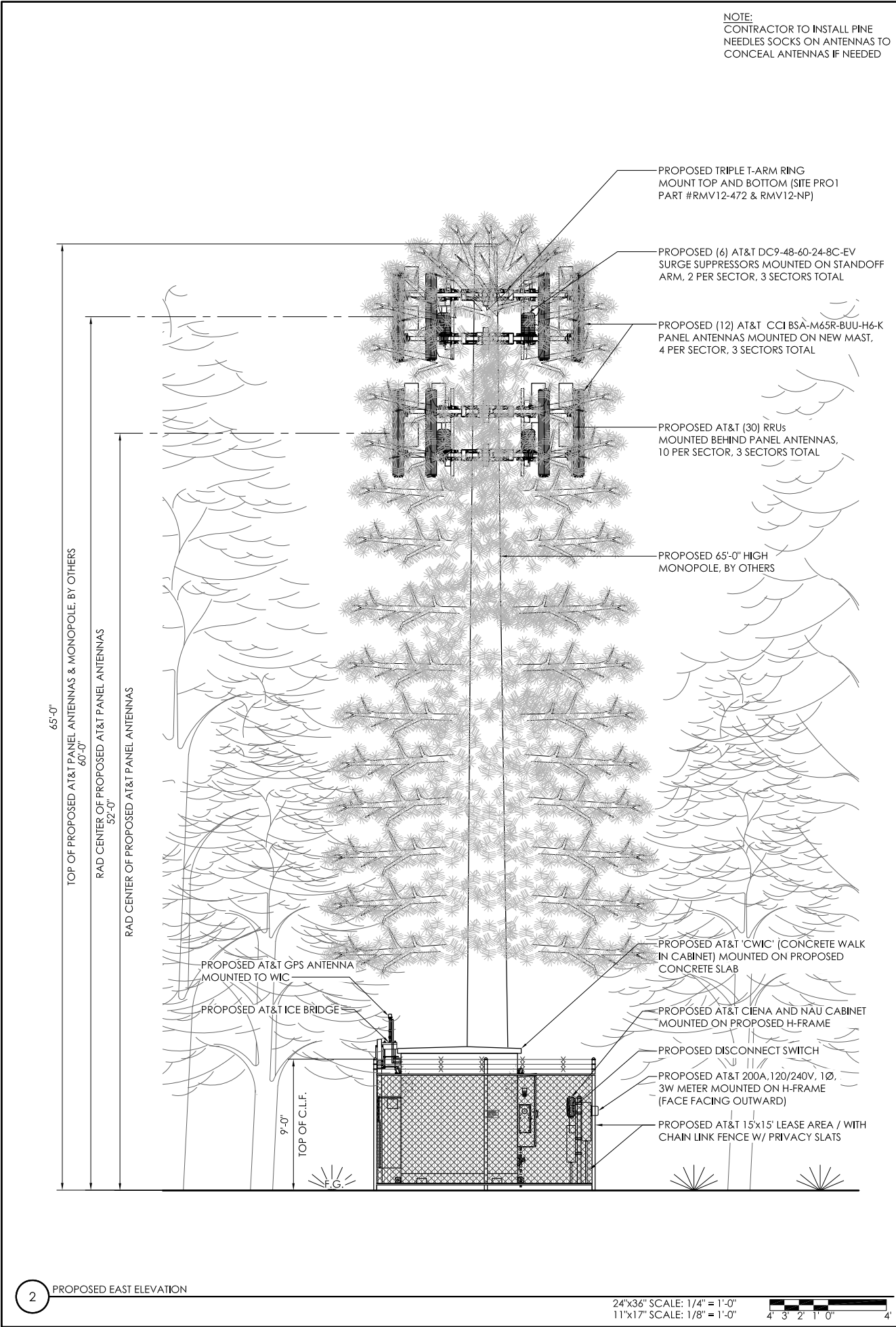


1 PROPOSED ANTENNA PLAN

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







NOTES:

- ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
- LABEL SERVICE DISCONNECT WITH A RED TAG.
- SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
- PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
- ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
- EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.
- CONDUIT REQUIREMENTS
  - UNDERGROUND PVC (SCH 40 OR 80)
  - INDOOR: EMT (RGS IN TRAFFIC AREAS)
  - Outdoor (ABOVE GRADE): RGS
- LIGHTING IS DESIGNED AND INSTALLED BY SHELTER MANUFACTURER.

NOTE:  
ALL BREAKERS AND PANELS SHOWN ARE EXISTING UNLESS NOTED AS (N) NEW.

SEE SPECIFICATION FOR CONDUIT TYPE.

LEGEND:  
MI = MECHANICAL INTERLOCK  
RU = RELAY TO MONITOR UTILITY POWER  
RG = RELAY TO MONITOR GENERATOR POWER

ABBREVIATIONS:

BCW BARE COPPER WIRE  
BTS BASE TRANSCEIVER STATION  
C CONDUIT  
(E) EXISTING  
EG EQUIPMENT GROUND  
(F) FUTURE  
FACP FIRE ALARM CONTROL PANEL  
GEN GENERATOR  
IG ISOLATED GROUND  
IMC INTERMEDIATE METAL CONDUIT  
LFMC LIQUID TIGHT FLEXIBLE METAL CONDUIT  
MCM MILLION CIRCULAR MILLS  
MI MECHANICAL INTERLOCK  
MP&S SEE MECHANICAL PLANS & SPECIFICATIONS  
(N) NEW  
NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION  
NL NIGHT LIGHT - FIXTURE TO BE UNSWITCHED  
PFB PROVISION FOR FUTURE BREAKER  
PVC POLYVINYL CHLORIDE CONDUIT  
(R) RELOCATE  
RG RELAY TO MONITOR GENERATOR POWER  
RU RELAY TO MONITOR UTILITY POWER  
TYP TYPICAL  
UON UNLESS OTHERWISE NOTED  
WP WEATHERPROOF  
GFCI GROUND FAULT CIRCUIT INTERRUPTER

NOTE: SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

3 ELECTRICAL NOTES

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

PANEL 'A'

SITE NAME:  
CCL06438 - CANINE COMPANIONS

VOLTAGE: 120/240 V  
PHASE: 1  
WIRE: 3  
MAIN BREAKER: 200 AMP  
BUSS RATING: 225 AMP  
LOCATION: SURFACE - EXTERIOR

PANEL DESIGNATION:  
AC PANEL 'A'

CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	USAGE FACTOR	PHASE A VA	PHASE B VA	PHASE A VA	PHASE B VA	USAGE FACTOR	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	NETSURE RECTIFIERS 1 & 2	30	2	ON	2112	1.25	2640	2640	0	0			ON	2	30	SURGE SUPPRESSOR	2
3					2112	1.25											4
5	NETSURE RECTIFIERS 3 & 4	30	2	ON	2112	1.25	2640	2640	5145	5145	1.25	4116	ON	2	50	HVAC #1 (LEAD-LAG*)	6
7					2112	1.25											8
9	NETSURE RECTIFIERS 5 & 6	30	2	ON	2112	1.25	2640	2640	0	0			ON	2	50	HVAC #2 (LEAD-LAG*)	10
11					2112	1.25											12
13	NETSURE RECTIFIERS 7 & 8	30	2	ON	2112	1.25	2640	2640	900	900	1.25	720	ON	1	20	RECEPTACLE	14
15					2112	1.25							ON	1	20	INTERIOR LIGHT	16
17	NETSURE RECTIFIERS 9 & 10	30	2	ON	2112	1.25	2640	2640	36	36	1.25	29	ON	1	20	EXTERIOR LIGHT	18
19					2112	1.25							ON	1	20	GFI	20
21	NETSURE GFI	15	1	ON	180	1.25	225	225	450	450	1.25	360	ON	1	20	BATTERY CHARGER	22
23	SPACE												ON	1	15	HEATER	24

CONTRACTOR SHALL LABEL PANEL WITH CARRIER I.D. AND SERVICE RATING

PHASE A TOTAL VA 19956  
PHASE B TOTAL VA 16543  
TOTAL KVA 36.50  
TOTAL AMPS 152.08

NOTES:

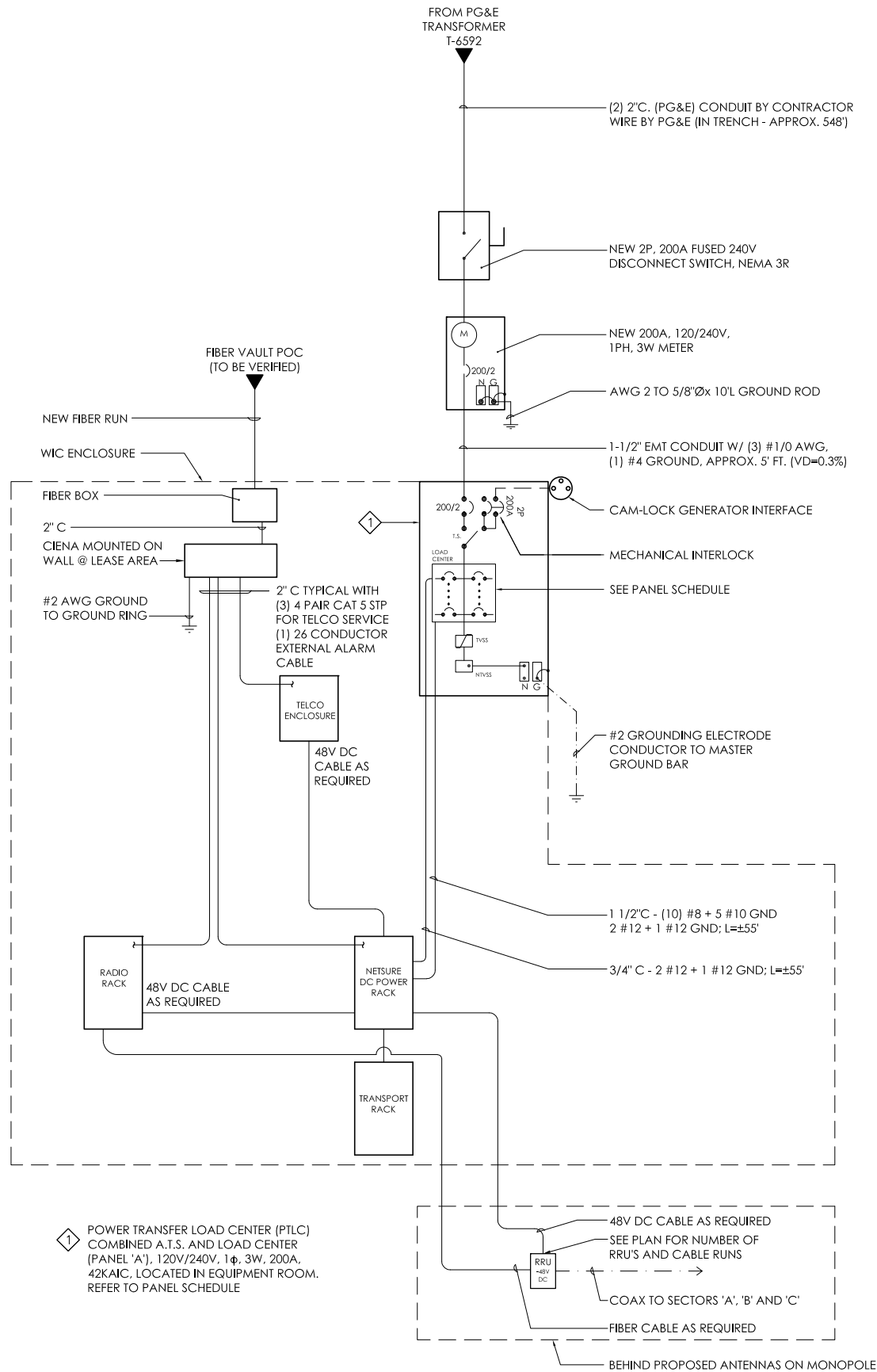
- ALL LOADS CALCD AS LCL/MCL LOADS (OK TO DESIGN TO 100% CAPACITY)
- UNUSED BREAKERS SHALL BE IN 'OFF' POSITION AND LABELED 'SPARE'
- \*LEAD LAG CONTROLLER ENSURES ONLY ONE HVAC IS 'ON' AT A TIME

2 AC PANEL SCHEDULE

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

KVA LOAD CALC:

TOTAL DESIGN CURRENT: ±152.08A  
SERVICE VOLTAGE: 240V  
TOTAL CONNECTED LOAD: ±36.5KVA



1 SINGLE LINE DIAGRAM (SLD)

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

AT&T  
1452 EDINGER AVE.  
TUSTIN, CALIFORNIA 92780

INFRASTRUCTURE  
AZ - CA - CO - ID - NM - NV - TX - UT  
2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 92614

ALLSTATES  
ENGINEERING & SURVEYING  
23675 BIRTCHE DRIVE  
LAKE FOREST, CA 92630

CCL06438  
CANINE COMPANIONS  
2965 DUTTON AVE  
SANTA ROSA, CA 95407

FA #: 14537224  
PACE #: MRSFR048909  
PTN #: 3705A0GBD4  
USID #: 225498

O	06/02/20	ZDs FOR SUBMITTAL
C	03/26/20	REV PER REDLINES
B	03/05/20	100%ZDs
A	01/21/20	90%ZDs
REV	DATE	DESCRIPTION

NOT TO BE USED FOR CONSTRUCTION

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SINGLE-LINE DIAGRAM & PANEL SCHEDULE

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