

**As-Built
Walker Cellular, Inc.
Damon Heaton
2.28.19**



SITE NUMBER: CCL04019/CNU4019 ✓
FA NUMBER: 10147301
LTE 5C MRSFR045347, LTE 6C MRSFR045555,
LTE 7C MRSFR045703, LTE 4TXRX MRSFR045368
LTE 4TXRX MRSFR045375
PTN#1 3701A0E986, PTN#2 3701A0E95F
PTN#3 3701A0E9CS, PTN#4 3701A0E9BY
PTN#5 3701A0E9BZ
SITE NAME: 1-280 & CROOKED CREEK
23600 VIA ESPLENDOR
CUPERTINO, CA 95014
MONOEUCALYPTUS/OUTDOOR

ENGINEERING

2016 CALIFORNIA BUILDING CODE
2016 CALIFORNIA TITLE 24
2016 CALIFORNIA FIRE CODE
2016 CALIFORNIA ENERGY CODE
2016 CALIFORNIA MECHANICAL CODE
TIA/EIA-222-F OR LATEST EDITION

GENERAL NOTES

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

SITE INFORMATION

PROPERTY OWNER:	THE ROMAN CATHOLIC BISHOP OF SAN JOSE
ADDRESS:	23005 VIA ESPLENDOR CUPERTINO, CA 95014
TOWER OWNER:	AT&T TOWERS
APPLICANT:	AT&T
ADDRESS:	5001 EXECUTIVE PARKWAY, SAN RAMON, CALIFORNIA 94583
LATITUDE (NAD 83):	37° 20' 15.3204" N (37.3375890)
LONGITUDE (NAD 83):	122° 5' 7.1694" W (-122.0853250)
LONGITUDE/LATITUDE TYPE:	NAD 83
GROUND ELEVATION:	+435'
APN #:	342-54-016
ZONING JURISDICTION:	CITY OF CUPERTINO
CURRENT ZONING:	-
POWER COMPANY:	PG&E
TELCO COMPANY:	AT&T
PROPOSED USE:	UNMANNED TELECOM FACILITY
LEASE AREA (SF):	792 SQ. FT.
GROUND ELEVATION:	65' AMSL

PROJECT TEAM

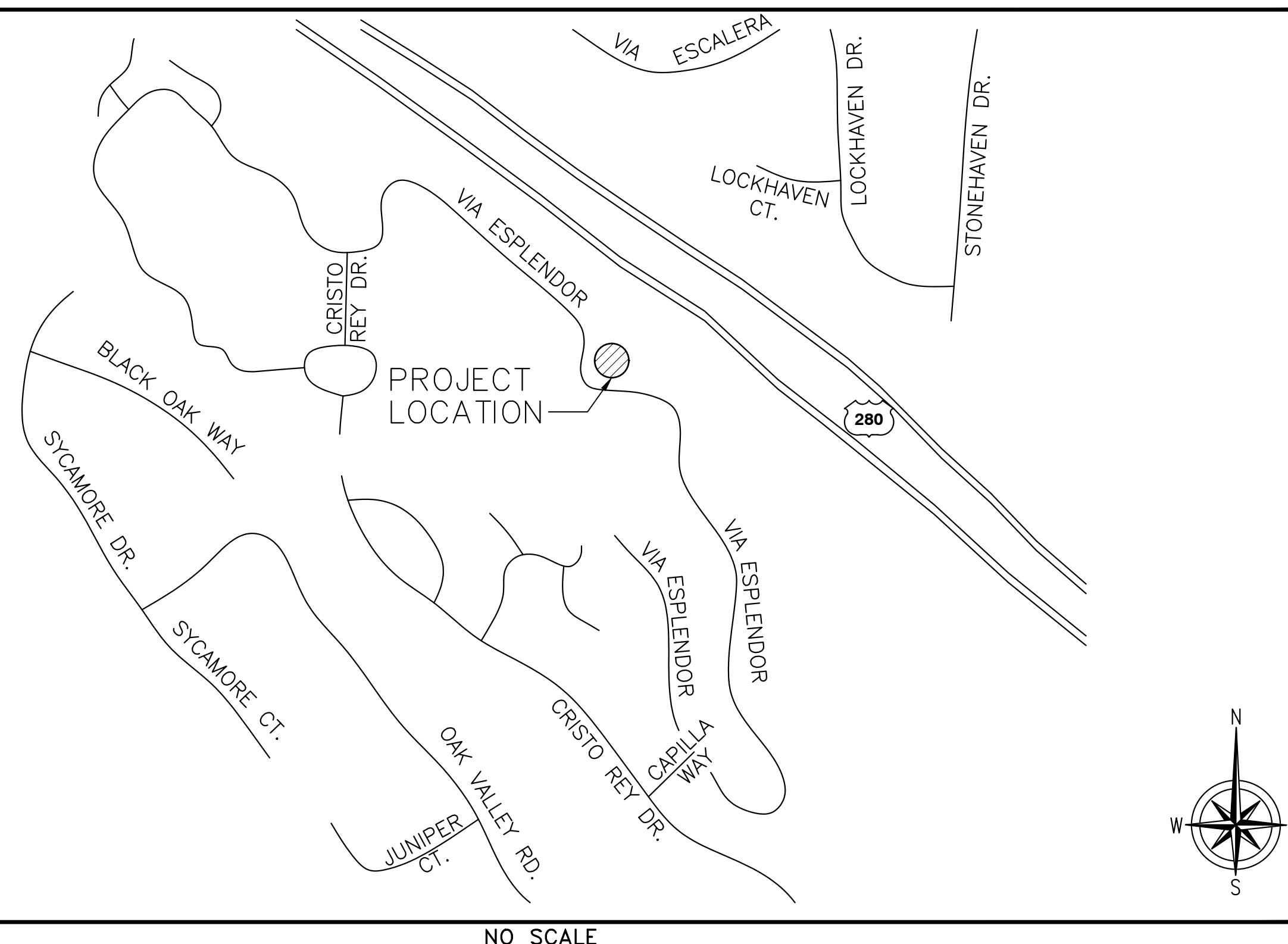
PROJECT MANAGER: ERICSSON 6140 STONERIDGE MALL RD. SUITE 350 PLEASANTON, CA 94588 CONTACT: MUSTAFA AGABEYOGLU PH: (860) 955-2187 EMAIL: MUSTAFA.AGABEYOGLU@ERICSSON.COM	A/E NUWAVE COMMUNICATIONS INC. INTELOCITY, LLC 1875 CORONADO AVE, SIGNAL HILL, CALIFORNIA 90755 CONTACT: GENARO CRUZ PH: 714-443-8407 GENARO.CRUZ@INTELOCITY.COM
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SITE ACQUISITION:
ERICSSON
6140 STONERIDGE MALL RD.
SUITE 350
PLEASANTON, CA 94588
CONTACT: CAMILLE DALMACIO
PH: (925) 791-0448
EMAIL:
CAMILLE.DALMACIO@ERICSSON.COM

ZONING:
TSJ CONSULTING INC.
27130 PASEO ESPADA, STE.# A-1426
SAN JUAN CAPISTRANO, CA 92675
CONTACT: TOM JOHNSON
PH: (925) 785-3727
EMAIL: TOM@TSJCONSULTINGINC.COM

RF ENGINEER: AT&T 5001 EXECUTIVE PARKWAY, SAN RAMON, CALIFORNIA 94583 CONTACT: PH: EMAIL:	CONSTRUCTION MANAGER: ERICSSON 6140 STONERIDGE MALL RD. SUITE 350 PLEASANTON, CA 94588 CONTACT: JEREMY VORPAGEL PH: (916) 240-2420 EMAIL: JEREMY.VORPAGEL@ERICSSON.COM
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VICINITY MAP



DRIVING DIRECTIONS

DIRECTIONS FROM AT&T OFFICE:
5001 EXECUTIVE PKWY SAN RAMON, CA 94583: TAKE THE 3RD RIGHT ONTO BOLLINGER CANYON RD, MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE, TAKE THE MISSION BLVD/STATE ROUTE 262 EXIT TOWARD I-880, KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO MISSION BLVD, KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR INTERSTATE 880 S/SAN JOSE AND MERGE ONTO I-880 S, TAKE THE BASCOM AVE EXIT, SLIGHT RIGHT ONTO N BASCOM AVE, TAKE THE 3RD LEFT ONTO NEWHALL ST. CONTINUE ONTO SCOTT BLVD. TURN LEFT ONTO HOMESTEAD RD. TURN RIGHT ONTO SAN TOMAS EXPY.

ARRIVE AT 23005 VIA ESPLORADOR CUPERTINO, CA 95014

CD DRAWING

IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

PROJECT DESCRIPTION

AT&T WIRELESS PROPOSES TO MODIFY AN EXISTING WIRELESS INSTALLATION. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- REMOVE AND REPLACE (9) EXISTING PANEL ANTENNAS WITH (9) NEW PANEL ANTENNAS
- REMOVE (3) EXISTING RRUS-12+A2s (1 PER SECTOR, ANTENNA 1)
- REMOVE (3) EXISTING RRUS-11+A2s (1 PER SECTOR, ANTENNA 1)
- INSTALL (1) NEW SQUID NEAR ANTENNAS (2 EXISTING, 1 NEW)
- INSTALL (3) NEW RRU-4415 B25 (1 PER SECTOR, ANTENNA 1)
- INSTALL (3) NEW RRU-4478 B14 (1 PER SECTOR, ANTENNA 2)
- INSTALL (3) NEW RRU-4426 B66 (1 PER SECTOR, ANTENNA 2)
- INSTALL (3) NEW RRU-4478 B5 (1 PER SECTOR, ANTENNA 3)
- INSTALL (3) NEW RRU-E2 B29 (1 PER SECTOR, ANTENNA 4 @ GROUND LEVEL)
- INSTALL (1) NEW OUTDOOR DC-12 NEAR EQUIPMENT
- INSTALL (1) NEW FIBER AND (2) NEW DC POWER TRUNK FOR SQUID
- INSTALL (2) NEW 5216
- INSTALL (2) NEW XMU03 + IDLe
- INSTALL (2) NEW 6601 UNITS

For reference to renew use permit: U-2011-10
No Proposed modifications to facility.

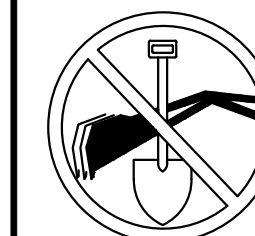
Plan set to represent the as-built of the existing facility.

DRAWING INDEX

[illegible]

DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

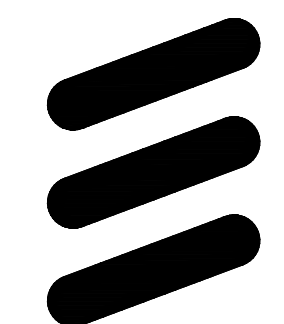


**UNDERGROUND
SERVICE ALERT OF
CALIFORNIA
800-227-2600**

48 HOURS BEFORE YOU DIG



5001 EXECUTIVE PARKWAY,
SAN RAMON, CA 94583



ERICSSON

6140 STONERIDGE MALL ROAD, SUITE 350
PLEASANTON, CA 94596

PLANS PREPARED BY:



1875 CORONADO AVE
SIGNAL HILL, CA 90745

1	05/11/18	100% CD DRAWINGS	SV
0	04/03/18	90% CD DRAWINGS	RF
REV	DATE	DESCRIPTION	INT



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23600 VIA ESPLENDOR
CUPERTINO, CA 95014
MONO-EUC/OUTDOOR

SHEET TITLE

TITLE SHEET

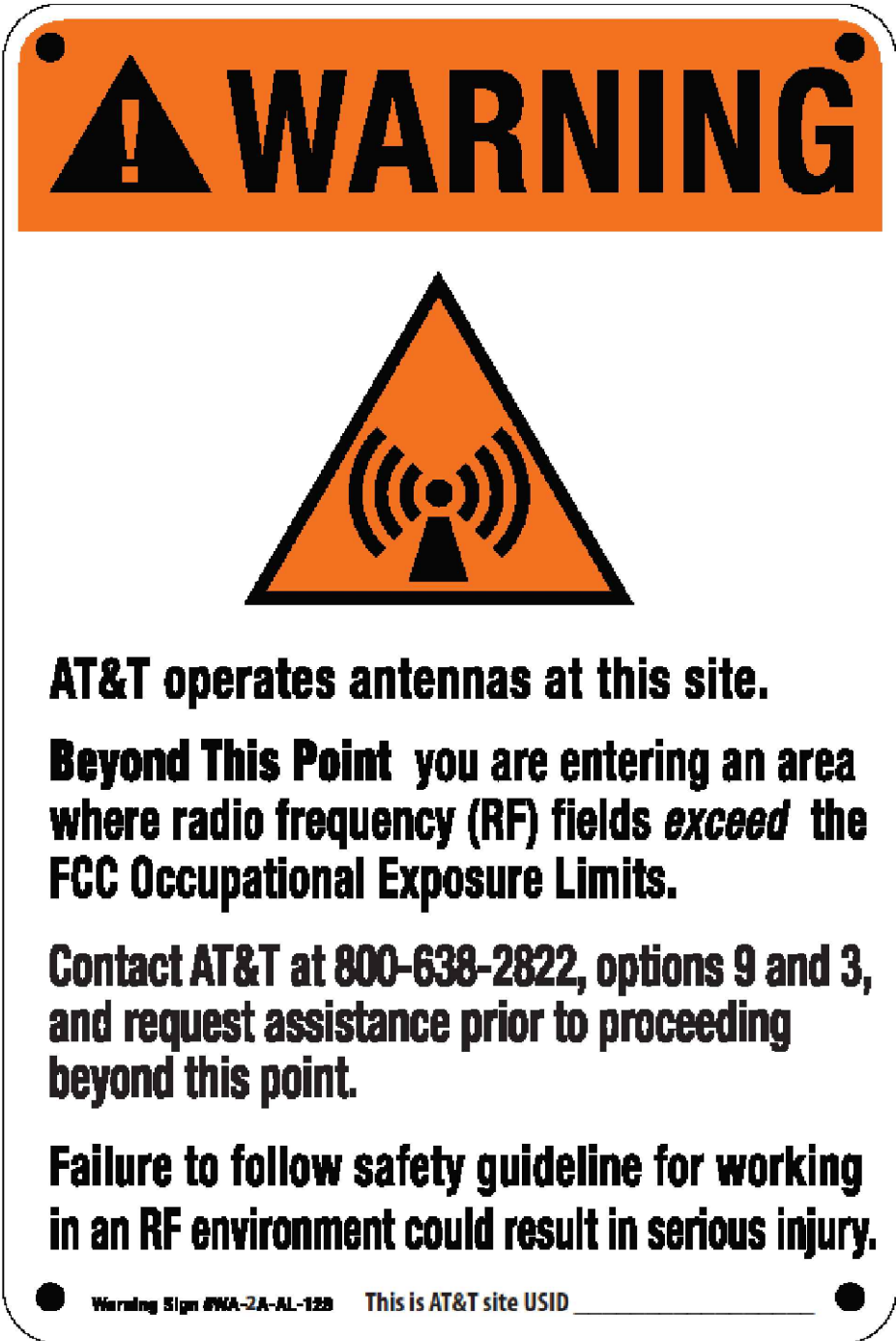
SHEET NUMBER

T-1

GENERAL CONSTRUCTION NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR – OVERLAND CONTRACTING INC. (B&V)
SUBCONTRACTOR – CONTRACTOR (CONSTRUCTION)
OWNER – AT&T
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOWN DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
25. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBIC LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
40. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
41. NO NOISE, SMOKE, DUST, ODOR, OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DELETE THIS NOTE IF THE SITE WILL HAVE A GENERATOR)
42. NO ADDITIONAL PARKING TO BE PROPOSED. EXISTING ACCESS AND PARKING TO REMAIN. (REVISE THIS NOTE ACCORDING TO THE SITE CONFIGURATION)
43. NO LANDSCAPING IS PROPOSED AT THIS SITE. (REVISE THIS NOTE ACCORDING TO THE SITE CONFIGURATION)



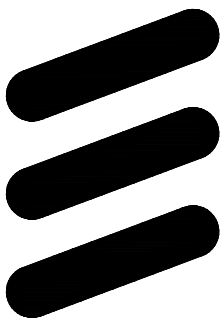
WA-2A-AL-128

WARNING SIGN

As-Built
Walker Cellular, Inc.
Damon Heaton
2.28.19



5001 EXECUTIVE PARKWAY,
SAN RAMON, CA 94583



ERICSSON

6140 STONERIDGE MALL ROAD, SUITE 350
PLEASANTON, CA 94596

PLANS PREPARED BY:



1875 CORONADO AVE
SIGNAL HILL, CA 90745

1	05/11/18	100% CD DRAWINGS	SV	
0	04/03/18	90% CD DRAWINGS	RF	
REV	DATE	DESCRIPTION	INT	



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CCL04019/CNU04019
1-280 & CROOKED CREEK
23600 VIA ESPLENDOR
CUPERTINO, CA 95014
MONO-EUC/OUTDOOR

SHEET TITLE
GENERAL NOTES

SHEET NUMBER

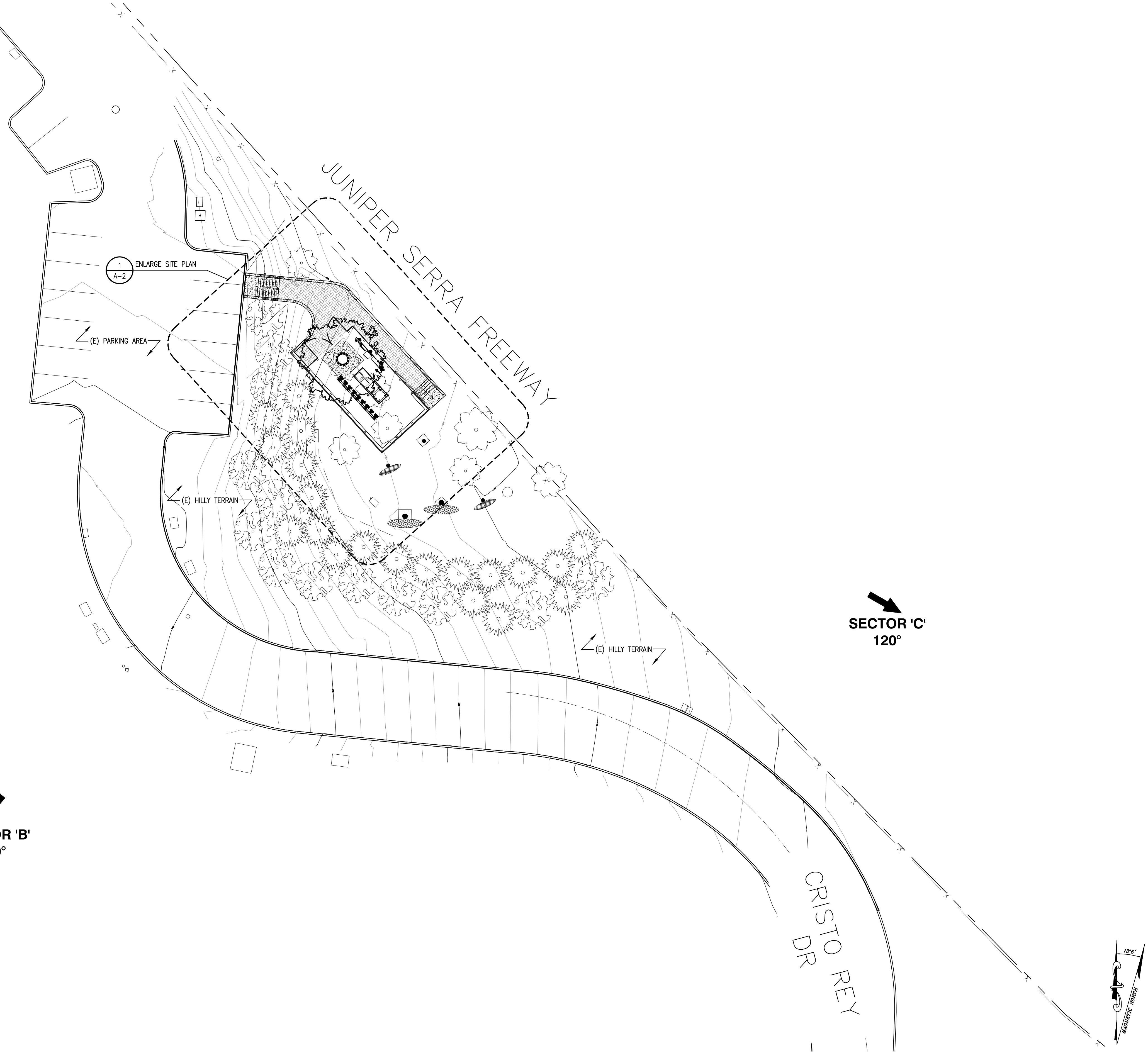
GN-1

As-Built
Walker Cellular, Inc.
Damon Heaton
2.28.19

SECTOR 'A'
310°

SECTOR 'B'
220°

SECTOR 'C'
120°



SITE PLAN ✓

SCALE: 1/16"=1'-0" 0 8 16'

1



5001 EXECUTIVE PARKWAY,
SAN RAMON, CA 94583




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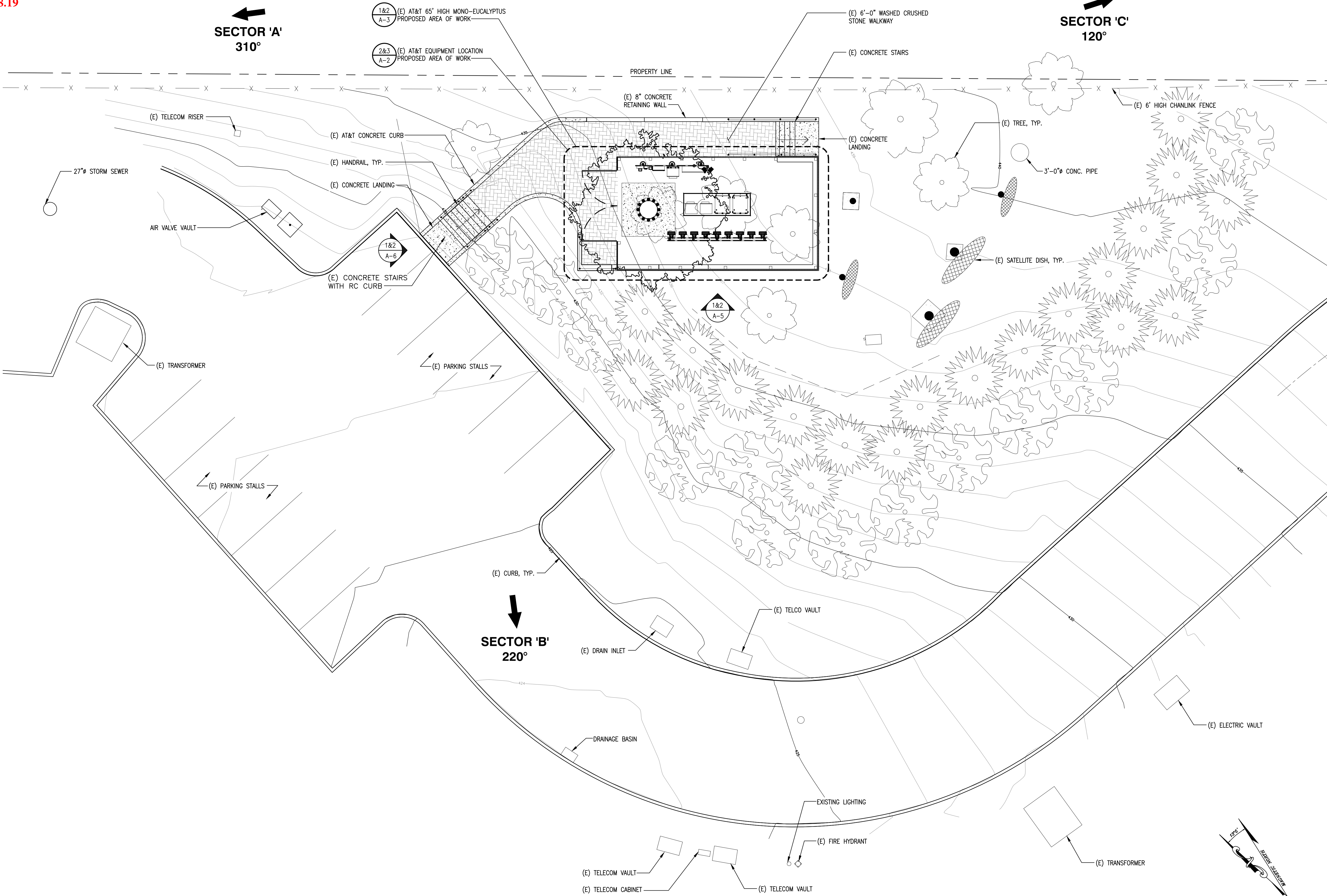
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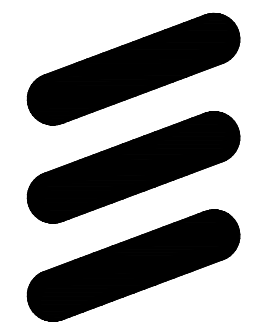
ENLARGED SITE PLAN

SCALE: 1/8"=1'-0"

1



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SAN RAMON, CA 94583



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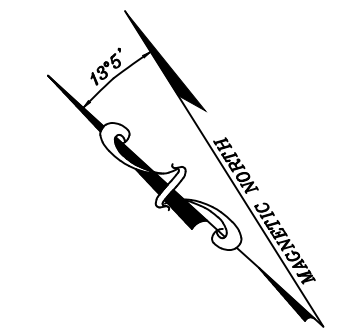
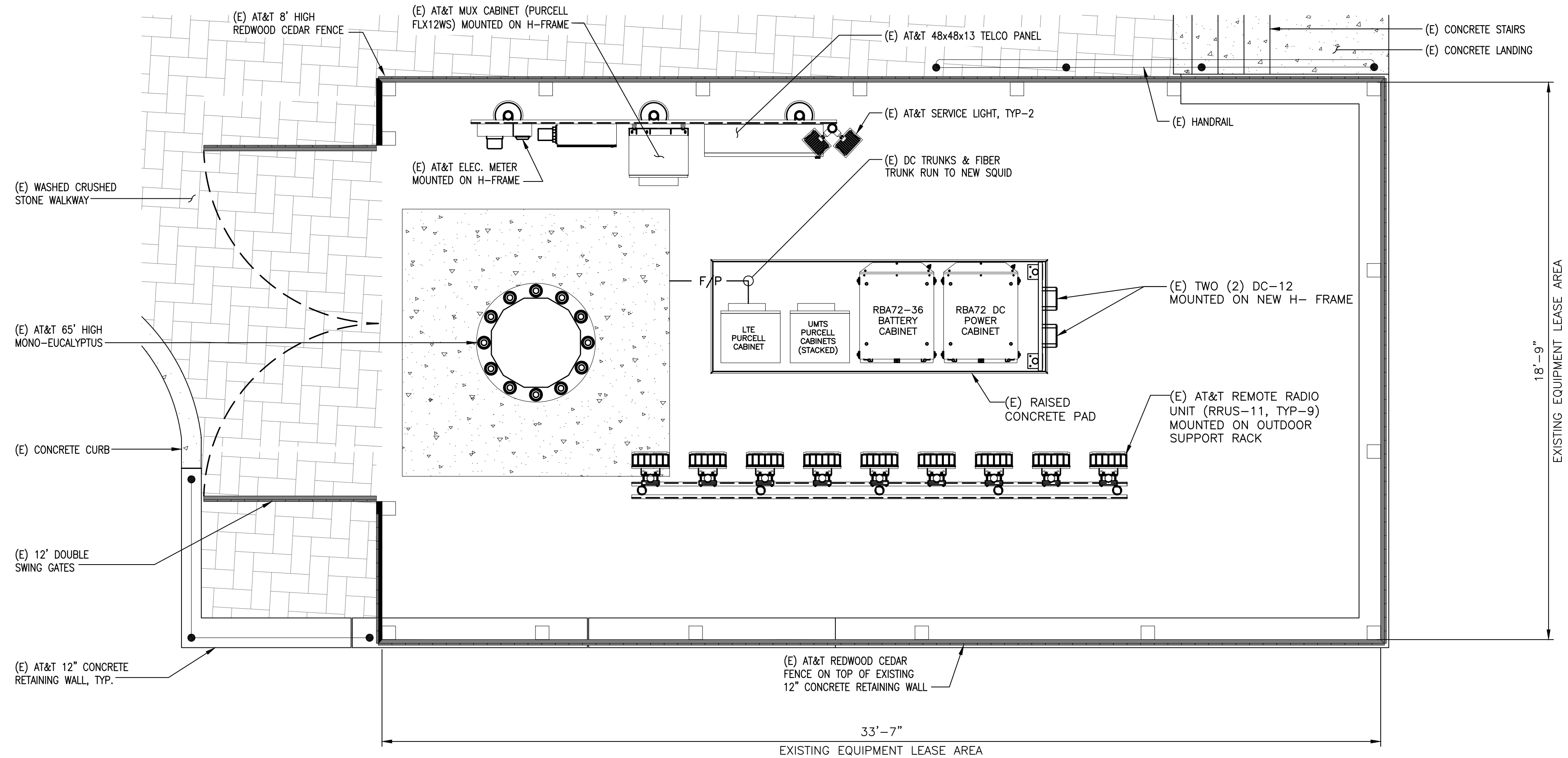


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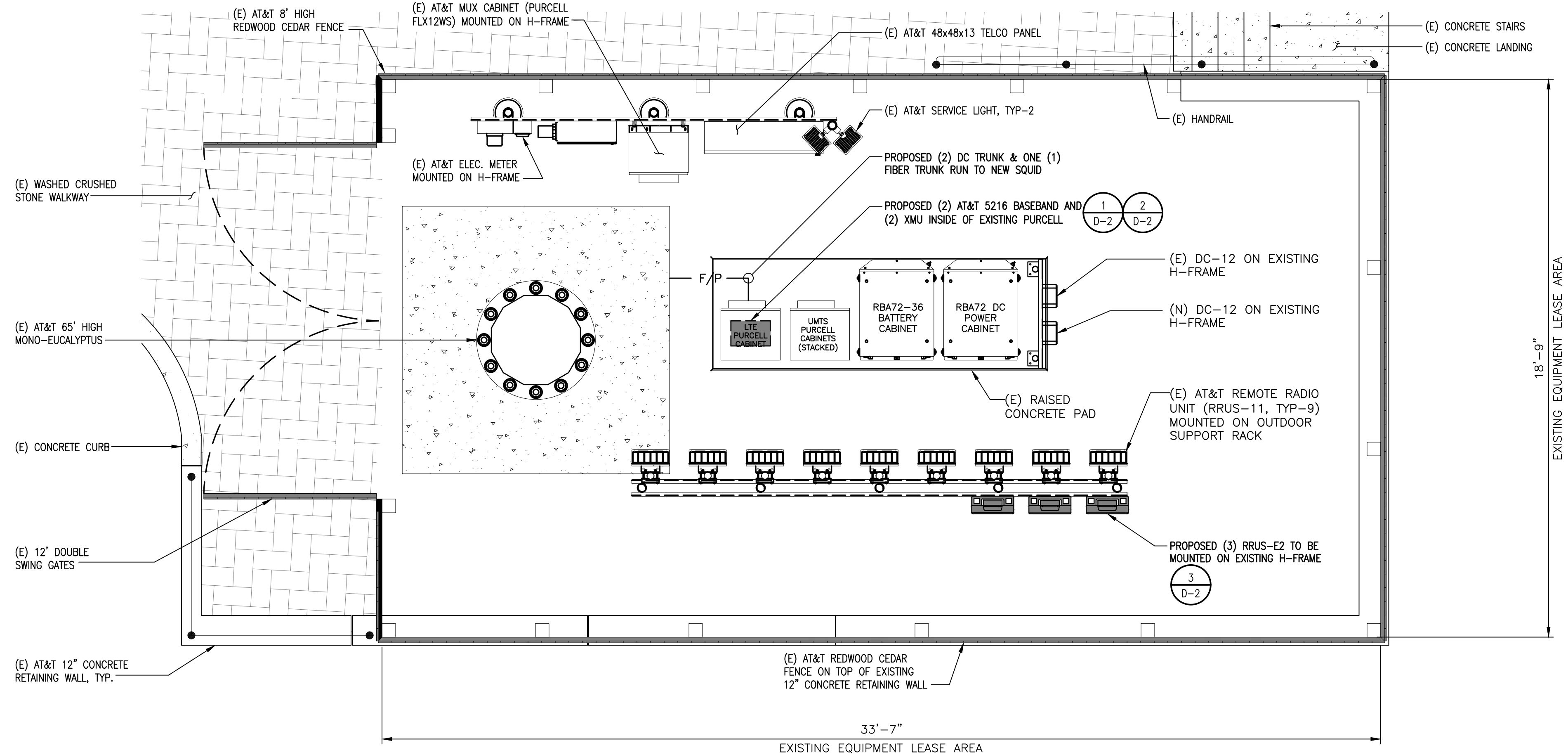
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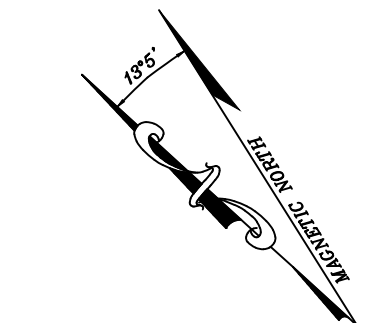
SCALE: 3/8"=1'-0"

EXISTING EQUIPMENT LAYOUT

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NOTE:
EXISTING PURCELL CABINET TO BE UPGRADED AS NEEDED TO SUPPORT LTE EQUIPMENT BEING INSTALLED.

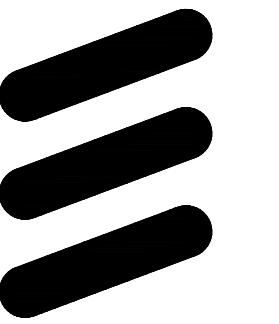


SCALE: 3/8"=1'-0"

PROPOSED EQUIPMENT LAYOUT



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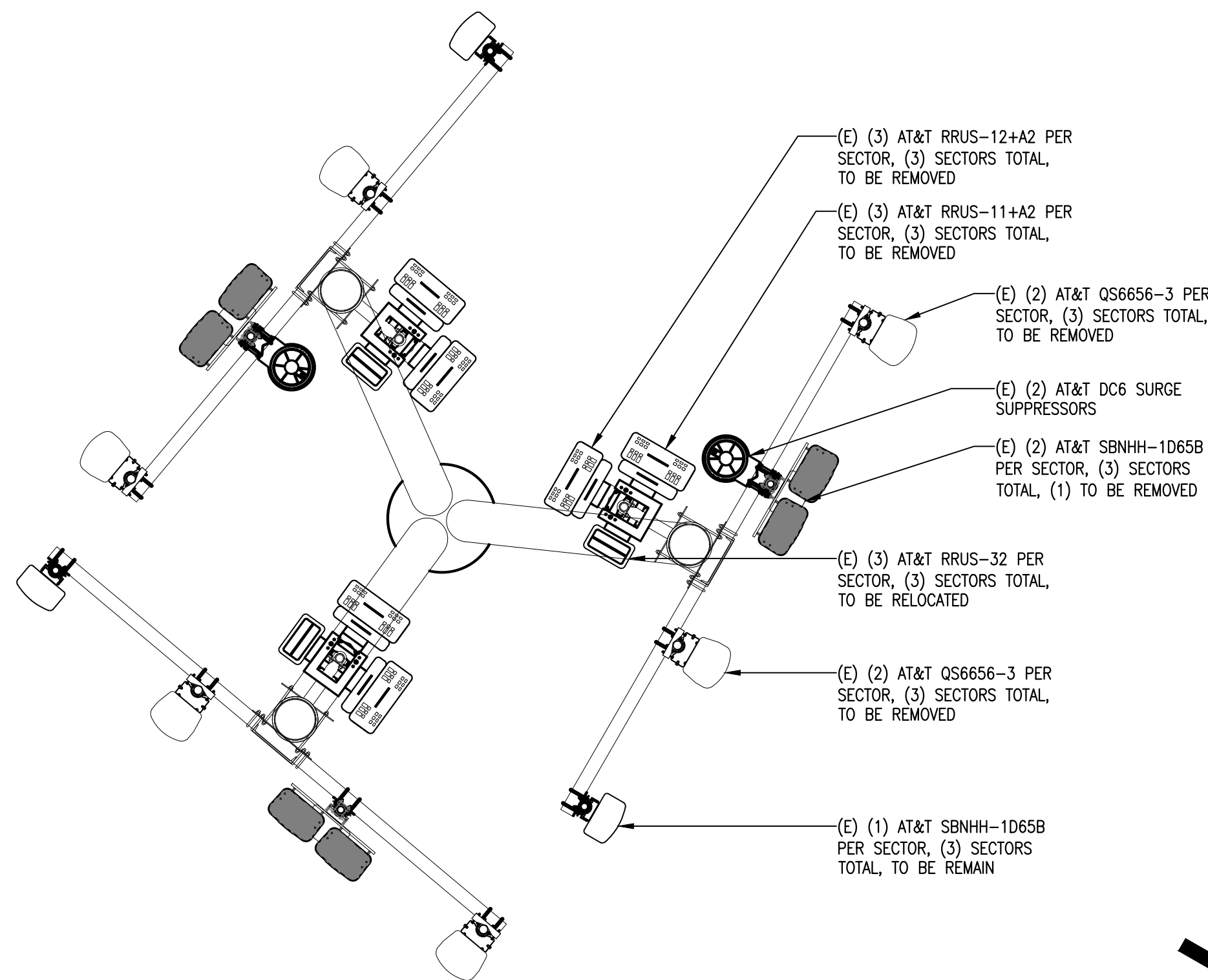
SHEET TITLE

EQUIPMENT LAYOUTS

SHEET NUMBER

A-2.1

SECTOR 'A'
310°



SECTOR 'C'
120°

SECTOR 'B'
220°



EXISTING ANTENNA LAYOUT

SCALE: 3/8"=1'-0"

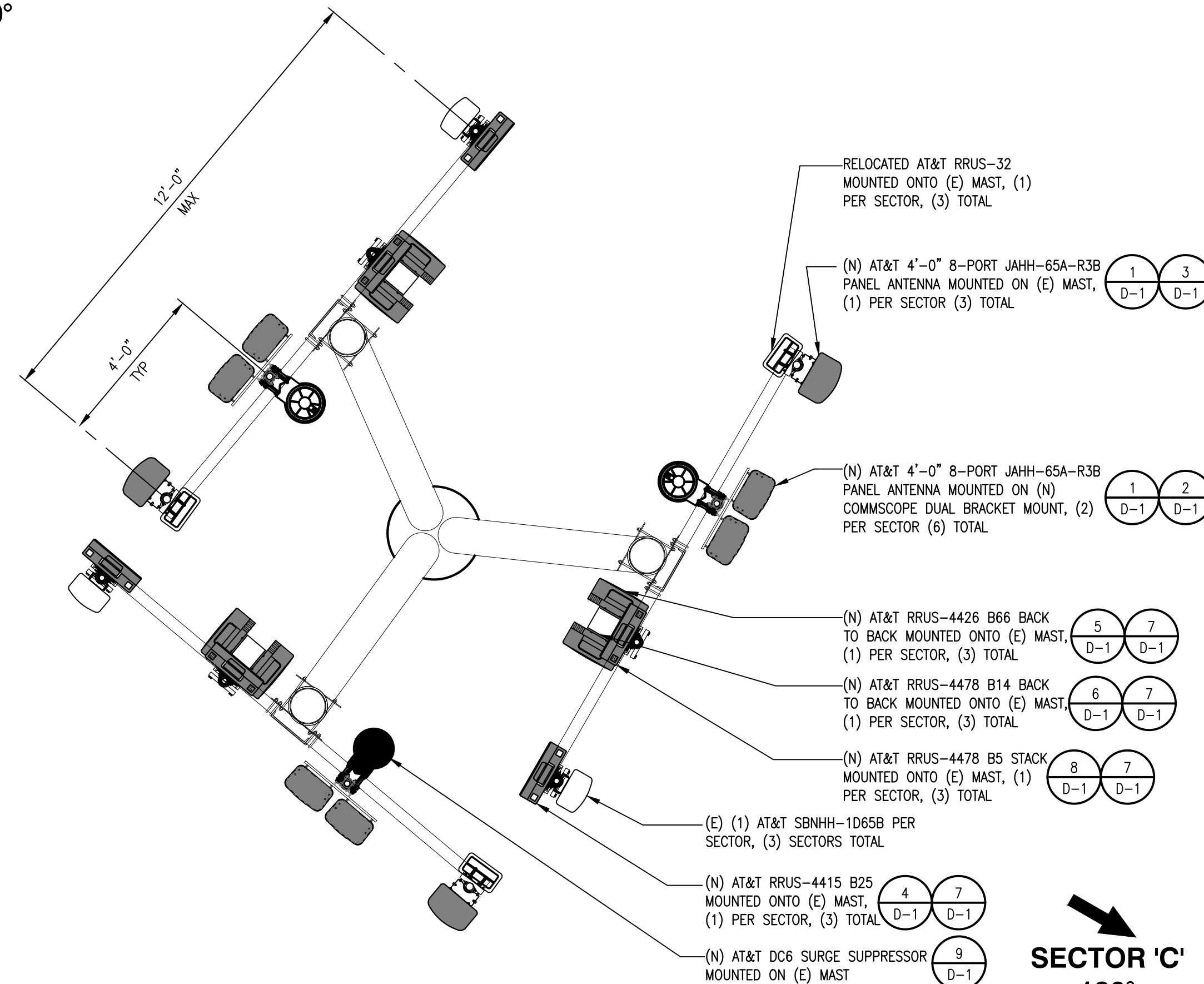
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PROPOSED ANTENNA LAYOUT

NOTE:
INTELOCITY ENGINEERING HAS NOT EVALUATED THE TOWER OR MOUNTS FOR THIS PROJECT AND ASSUMES NO LIABILITY FOR ITS STRUCTURAL INTEGRITY. REFER TO STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION.

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SECTOR 'A'
310°



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SECTOR 'B'
220°

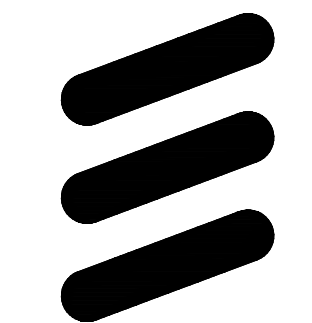


SCALE: 3/8"=1'-0"

2



5001 EXECUTIVE PARKWAY,
SAN RAMON, CA 94583



ERICSSON

6140 STONERIDGE MALL ROAD, SUITE 350
PLEASANTON, CA 94596

PLANS PREPARED BY:



1875 CORONADO AVE
SIGNAL HILL, CA 90745

REV	DATE	DESCRIPTION	INT
1	05/11/18	100% CD DRAWINGS	SV
0	04/03/18	90% CD DRAWINGS	RF



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CCL04019/CNU04019
1-280 & CROOKED CREEK
23600 VIA ESPLENDOR
CUPERTINO, CA 95014
MONO-EUC/OUTDOOR

SHEET TITLE
EXISTING AND PROPOSED
ANTENNA LAYOUTS

SHEET NUMBER

A-3

NOTES TO CONTRACTOR:

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

EXISTING OPTIMAL ANTENNA AND TRANSMISSION CABLES REQUIREMENT (VERIFY WITH CURRENT RFDS)											
ANTENNA	TECHNOLOGY		ANTENNA MODEL		ANTENNA AZIMUTH		RAD CENTER		TRANSMISSION LINE		
	EXIST	PROP	EXISTING	PROPOSED	EXISTING	PROPOSED	EXIST	PROP	LENGTH	PART NUMBER	
SECTOR A	A1	LTE 700/1900	LTE 700/1900	COMMSCOPE SBNHH-1D65A	COMMSCOPE SBNHH-1D65A	310°	310°	52'-0"	52'-0"	±80'	FIBER
	A2	LTE AWS	LTE 700FNET/LTE 850 LTE AWS	QS6656-3	JAHH-65A-R3B-V3	310°	310°	52'-0"	52'-0"	±80'	FIBER
	A3	UMTS 1900	LTE 700FNET/LTE 850	COMMSCOPE SBNHH-1D65A	JAHH-65A-R3B-V3	310°	310°	52'-0"	52'-0"	±80'	FIBER
	A4	UMTS 850/LTE WCS	LTE 700DE UMTS 850/LTE WCS	QS6656-3	JAHH-65A-R3B-V3	310°	310°	52'-0"	52'-0"	±80'	FIBER
SECTOR B	B1	LTE 700/1900	LTE 700/1900	COMMSCOPE SBNHH-1D65A	COMMSCOPE SBNHH-1D65A	220°	220°	52'-0"	52'-0"	±80'	FIBER
	B2	LTE AWS	LTE 700FNET/LTE 850 LTE AWS	QS6656-3	JAHH-65A-R3B-V3	220°	220°	52'-0"	52'-0"	±80'	FIBER
	B3	UMTS 1900	LTE 700FNET/LTE 850	COMMSCOPE SBNHH-1D65A	JAHH-65A-R3B-V3	220°	220°	52'-0"	52'-0"	±80'	FIBER
	B4	UMTS 850/LTE WCS	LTE 700DE UMTS 850/LTE WCS	QS6656-3	JAHH-65A-R3B-V3	220°	220°	52'-0"	52'-0"	±80'	FIBER
SECTOR C	C1	LTE 700/1900	LTE 700/1900	COMMSCOPE SBNHH-1D65A	COMMSCOPE SBNHH-1D65A	120°	120°	52'-0"	52'-0"	±80'	FIBER
	C2	LTE AWS	LTE 700FNET/LTE 850 LTE AWS	QS6656-3	JAHH-65A-R3B-V3	120°	120°	52'-0"	52'-0"	±80'	FIBER
	C3	UMTS 1900	LTE 700FNET/LTE 850	COMMSCOPE SBNHH-1D65A	JAHH-65A-R3B-V3	120°	120°	52'-0"	52'-0"	±80'	FIBER
	C4	UMTS 850/LTE WCS	LTE 700DE UMTS 850/LTE WCS	QS6656-3	JAHH-65A-R3B-V3	120°	120°	52'-0"	52'-0"	±80'	FIBER

		REMOTE RADIO UNITS (RRU'S)									
ANTENNA		RRU TYPE		QTY.		RRU LOCATION (DISTANCE FROM ANTENNA)	RRU MINIMUM CLEARANCES			DC CABLE	
				(E)	(N)		ABOVE	BELOW	SIDES	LENGTH	AWG
SECTOR A	A1	(1) RRUS-11, (N) ERICSSON RRUS-4415 B25		1	1	< 10'-0"	16"	8"	8"	±80'-0"	8
	A2	(1) ERICSSON RRUS-4478 B14, (1) RRUS-4478 B5, (1) RRUS-4426 B66		1	EA	< 10'-0"	16"	8"	8"	±80'-0"	8
	A3										
	A4	(E) (1) RRUS-32, (N) ERICSSON RRUS-E2 (MOUNTED AT GRADE)		1	1	< 10'-0"	16"	8"	8"	±80'-0"	8
SECTOR B	B1	(1) RRUS-11, (N) ERICSSON RRUS-4415 B25		1	1	< 10'-0"	16"	8"	8"	±80'-0"	8
	B2	(1) ERICSSON RRUS-4478 B14, (1) RRUS-4478 B5, (1) RRUS-4426 B66		1	EA	< 10'-0"	16"	8"	8"	±80'-0"	8
	B3										
	B4	(E) (1) RRUS-32, (N) ERICSSON RRUS-E2 (MOUNTED AT GRADE)		1	1	< 10'-0"	16"	8"	8"	±80'-0"	8
SECTOR C	C1	(1) RRUS-11, (N) ERICSSON RRUS-4415 B25		1	1	< 10'-0"	16"	8"	8"	±80'-0"	8
	C2	(1) ERICSSON RRUS-4478 B14, (1) RRUS-4478 B5, (1) RRUS-4426 B66		1	EA	< 10'-0"	16"	8"	8"	±80'-0"	8
	C3										
	C4	(E) (1) RRUS-32, (N) ERICSSON RRUS-E2 (MOUNTED AT GRADE)		1	1	< 10'-0"	16"	8"	8"	±80'-0"	8

FIBER OPTIC TRANSMISSION AND DC CABLE SCHEDULE										
	FIBER OPTIC TRANSMISSION CABLES				DC POWER CABLES					
	FROM LTE DUS-41 TO DC6				FROM DC 12 TO DC6		FROM DC6 TO RRU			
	PART #	QTY	LENGTH	PART #	QTY	LENGTH	PART #	QTY	LENGTH	
ALPHA	FB-L98B-002-XXX	1 (E)	80'	WR-VG86ST-BRD	2 (E)	80'	WR-VG122ST-BRDA	1	±5'	
BETA		1 (N)			2 (N)		WR-VG122ST-BRDA	1	±5'	
GAMMA							WR-VG122ST-BRDA	1	±5'	

- * EACH FBL98B-002-XXX (12) PAIR FIBER TRUNK CABLE TRANSMITS SIGNAL FOR UP TO (12) RRU'S
- * EACH WR-VG86ST-BRD (6) CONDUCTOR POWER CABLE SUPPLIES POWER FOR UP TO (3) RRU'S, (1) PER SECTOR

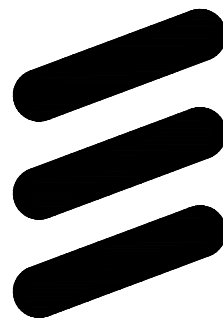
ANTENNA AND RRU SCHEDULES

2

As-Built
Walker Cellular, Inc.
Damon Heaton
2.28.19



5001 EXECUTIVE PARKWAY,
SAN RAMON, CA 94583



ERICSSON

6140 STONERIDGE MALL ROAD, SUITE 350
PLEASANTON, CA 94596

PLANS PREPARED BY:



1875 CORONADO AVE
SIGNAL HILL, CA 90745

REV	DATE	DESCRIPTION	INT
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CCL04019/CNU04019
1-280 & CROOKED CREEK
23600 VIA ESPLENDOR
CUPERTINO, CA 95014
MONO-EUC/OUTDOOR

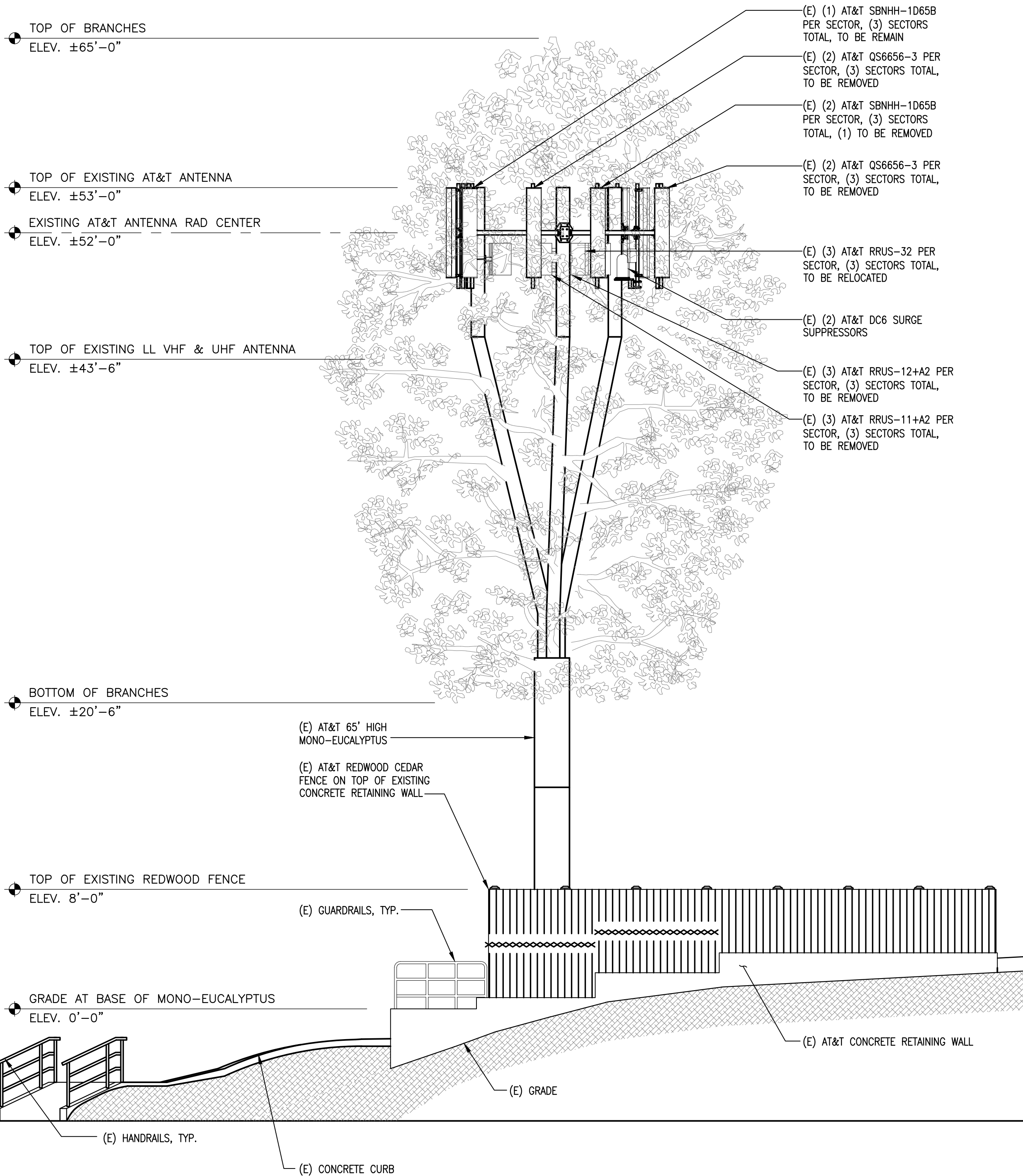
SHEET TITLE
ANTENNA AND RRU
SCHEDULES

SHEET NUMBER

A-4

1

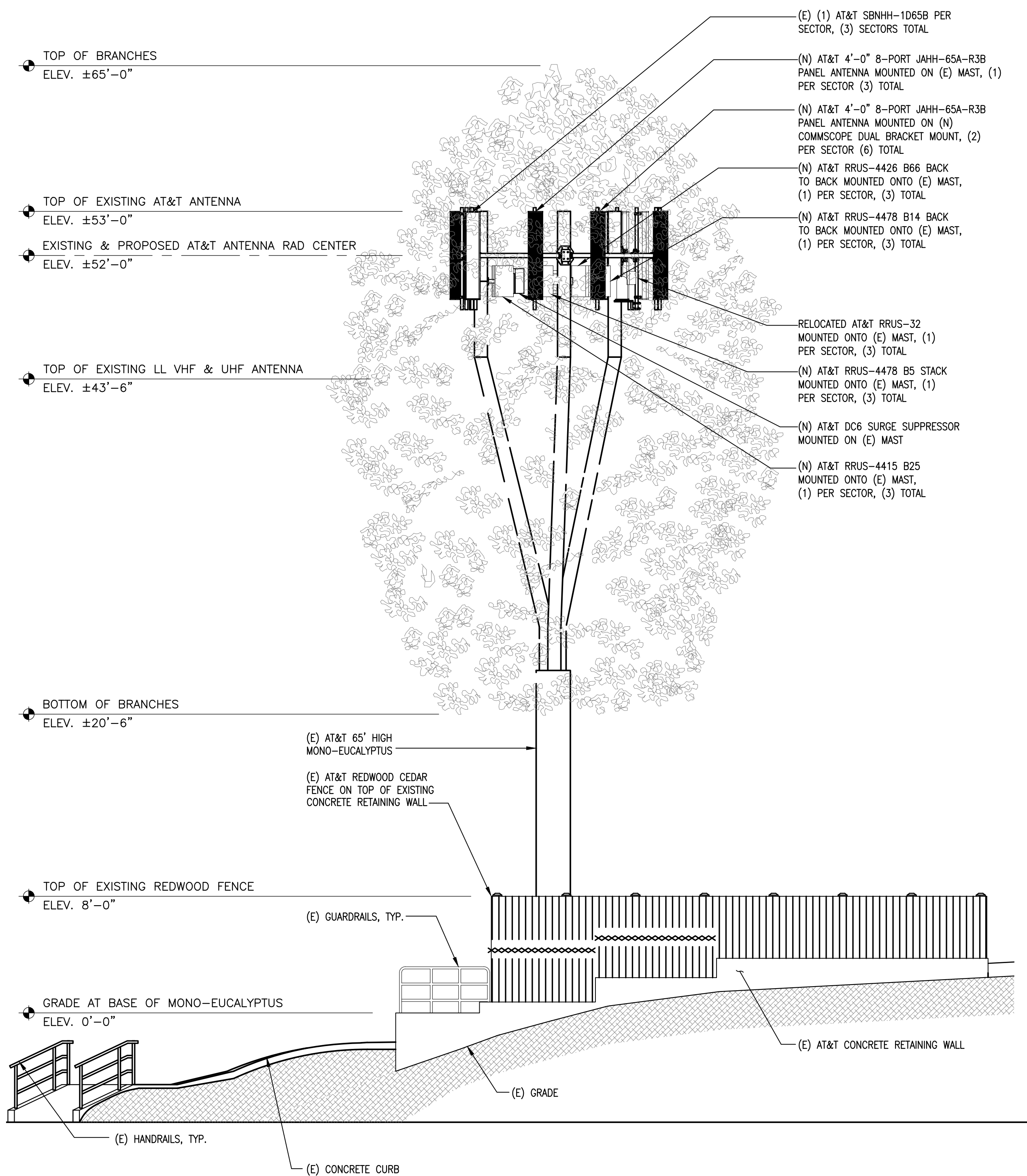
NOT USED



EXISTING SOUTHWEST ELEVATION

SCALE: 3/16"=1'-0" 0 2' 4' 6' 1

NOTE:
INTELOCITY ENGINEERING HAS NOT EVALUATED THE
TOWER OR MOUNTS FOR THIS PROJECT AND ASSUMES
NO LIABILITY FOR ITS STRUCTURAL INTEGRITY. REFER
TO STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION.



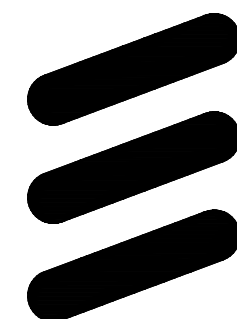
NEW SOUTHWEST ELEVATION

As-Built
Walker Cellular, Inc.
Damon Heaton
2.28.19

- (E) (1) AT&T SBNHH-1D65B PER SECTOR, (3) SECTORS TOTAL
- (N) AT&T 4'-0" 8-PORT JAHH-65A-R3B PANEL ANTENNA MOUNTED ON (E) MAST, (1) PER SECTOR (3) TOTAL
- (N) AT&T 4'-0" 8-PORT JAHH-65A-R3B PANEL ANTENNA MOUNTED ON (N) COMMSCOPE DUAL BRACKET MOUNT, (2) PER SECTOR (6) TOTAL
- (N) AT&T RRUS-4426 B66 BACK TO BACK MOUNTED ONTO (E) MAST, (1) PER SECTOR, (3) TOTAL
- (N) AT&T RRUS-4478 B14 BACK TO BACK MOUNTED ONTO (E) MAST, (1) PER SECTOR, (3) TOTAL
- RELOCATED AT&T RRUS-32 MOUNTED ONTO (E) MAST, (1) PER SECTOR, (3) TOTAL
- (N) AT&T RRUS-4478 B5 STACK MOUNTED ONTO (E) MAST, (1) PER SECTOR, (3) TOTAL
- (N) AT&T DC6 SURGE SUPPRESSOR MOUNTED ON (E) MAST
- (N) AT&T RRUS-4415 B25 MOUNTED ONTO (E) MAST, (1) PER SECTOR, (3) TOTAL



5001 EXECUTIVE PARKWAY,
SAN RAMON, CA 94583



ERICSSON

6140 STONERIDGE MALL ROAD, SUITE 350
PLEASANTON, CA 94596

PLANS PREPARED BY:



1875 CORONADO AVE
SIGNAL HILL, CA 90745

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0	04/03/18	90% CD DRAWINGS	RF



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CCL04019/CNU04019
1-280 & CROOKED CREEK
23600 VIA ESPLENDOR
CUPERTINO, CA 95014
MONO-EUC/OUTDOOR

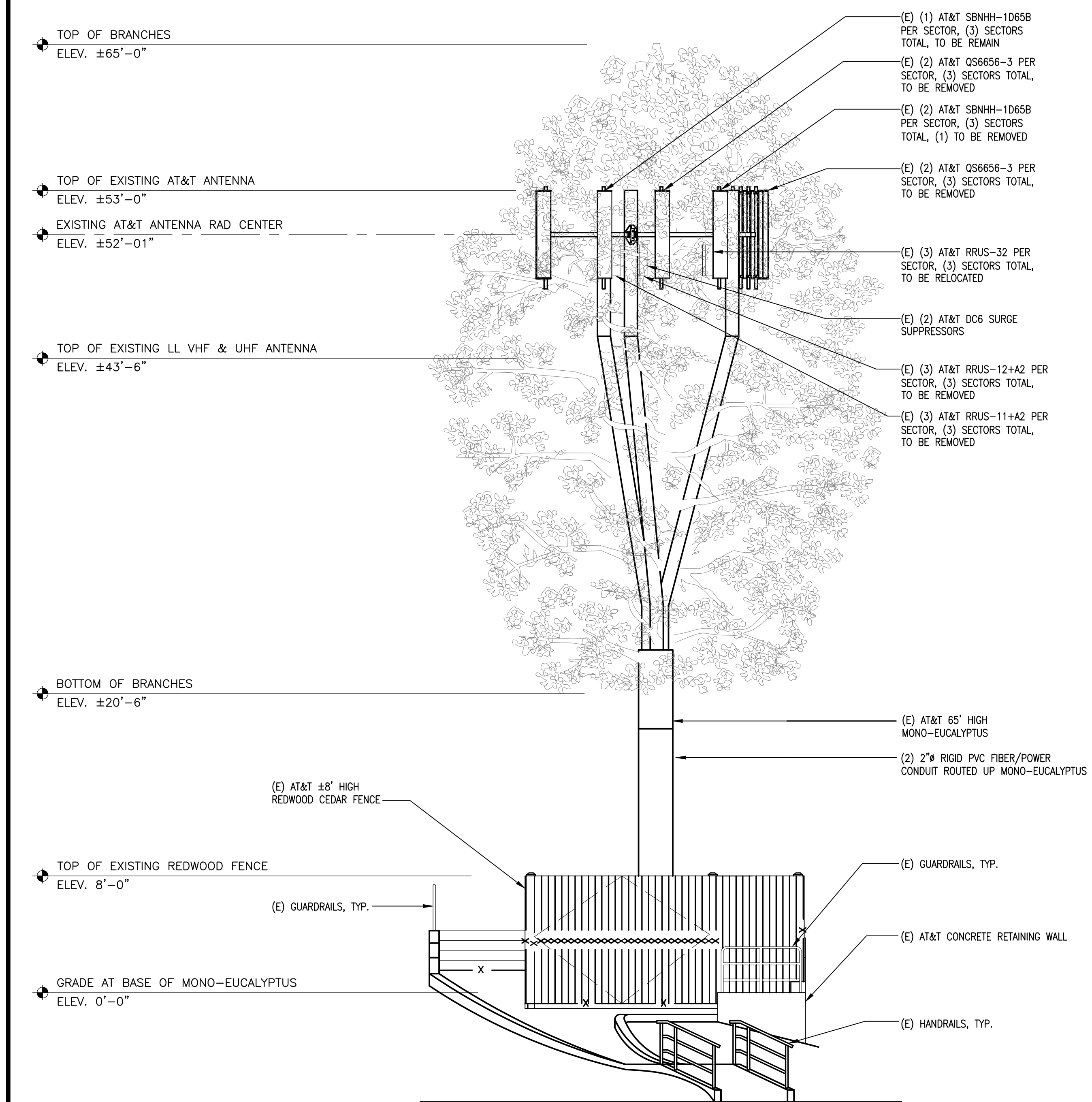
SHEET TITLE

ELEVATIONS

SHEET NUMBER

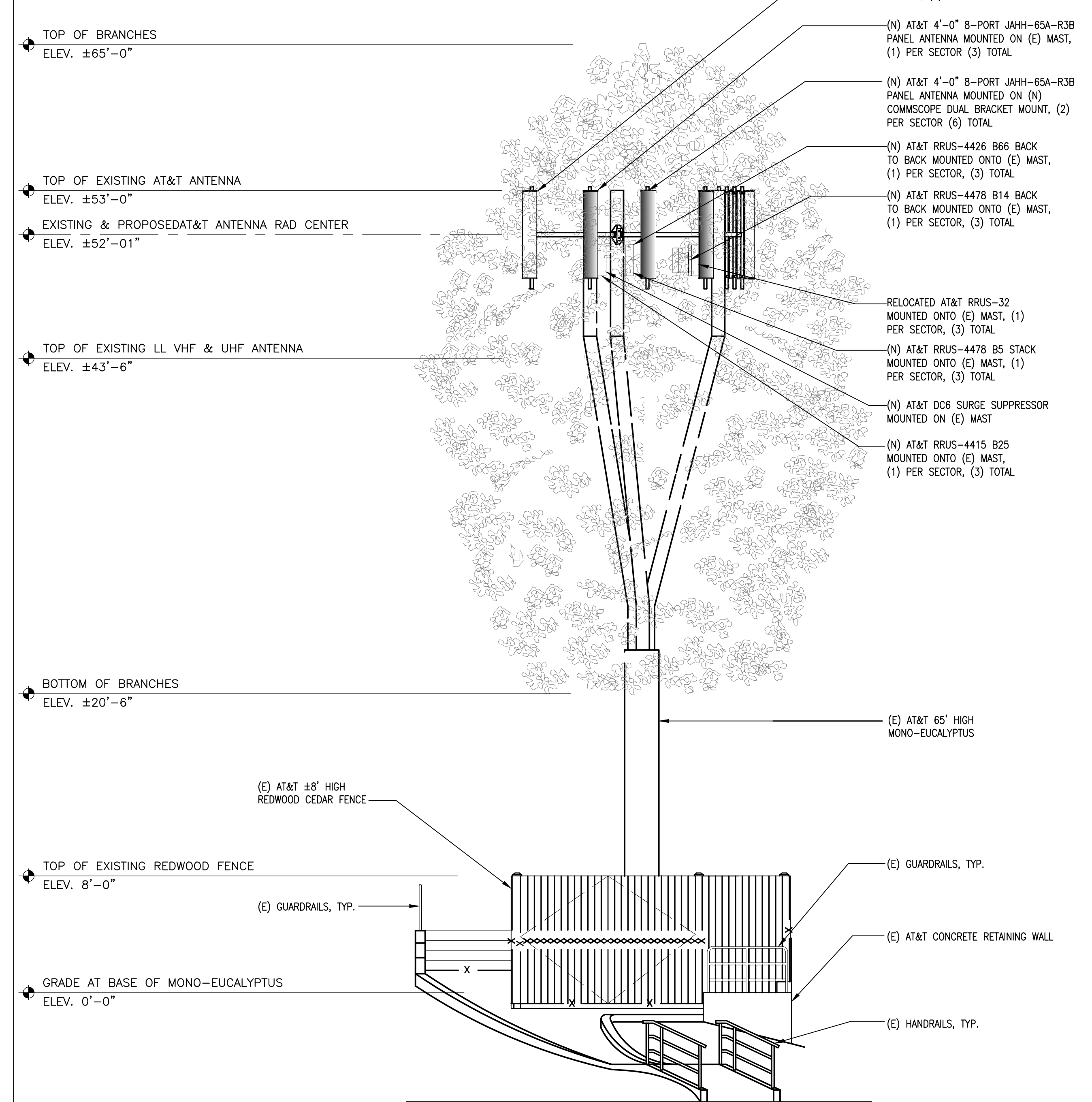
A-5

SCALE: 3/16"=1'-0" 0 2' 4' 6' 2



EXISTING NORTHWEST ELEVATION

SCALE: 3/16"=1'-0" 0 2' 4' 6' 1



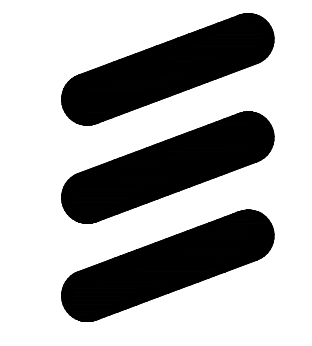
NEW NORTHWEST ELEVATION

SCALE: 3/16"=1'-0" 0 2' 4' 6' 2

As-Built
Walker Cellular, Inc.
Damon Heaton
2.28.19



5001 EXECUTIVE PARKWAY,
SAN RAMON, CA 94583



6140 STONERIDGE MALL ROAD, SUITE 350
PLEASANTON, CA 94596



1875 CORONADO AVE
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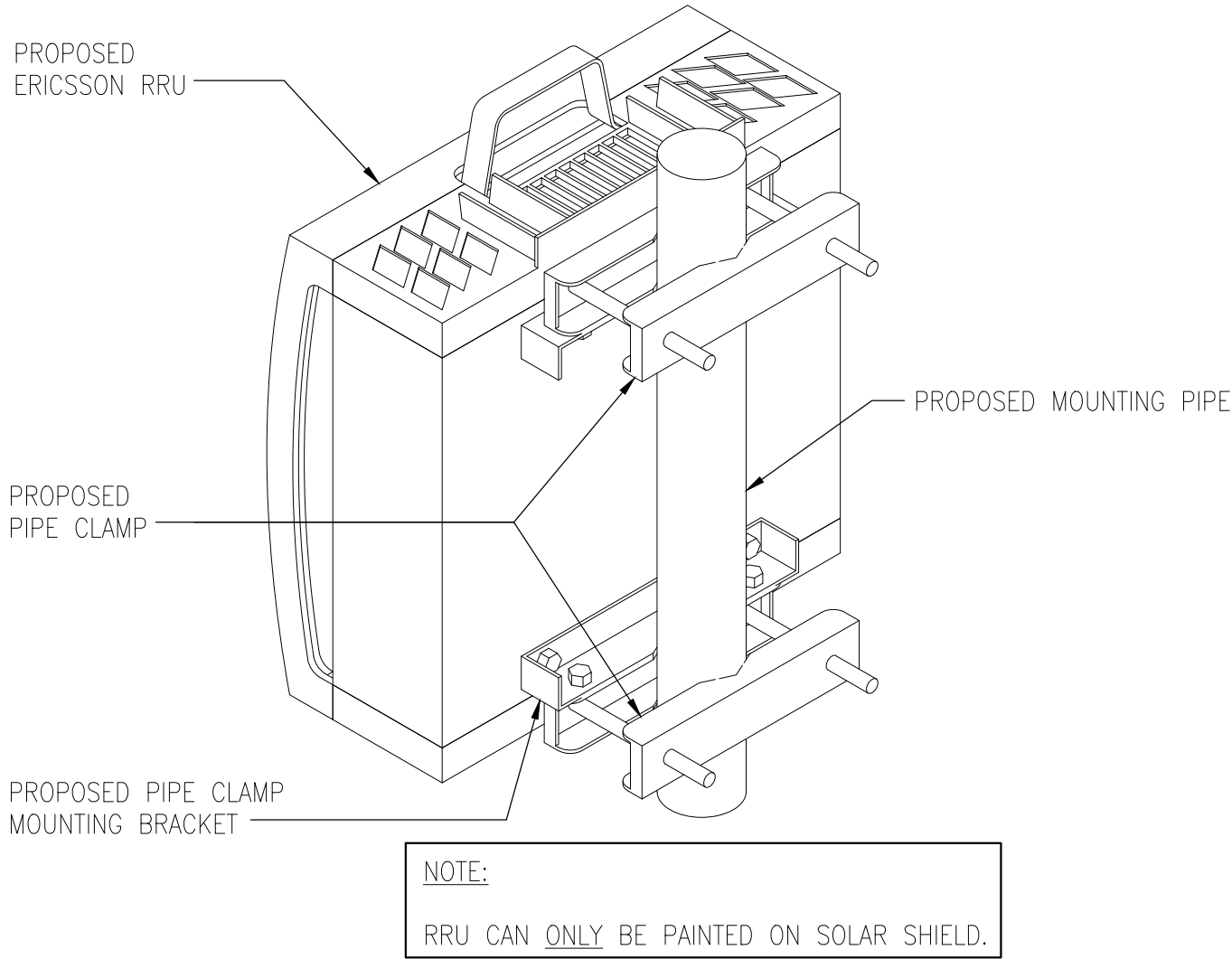
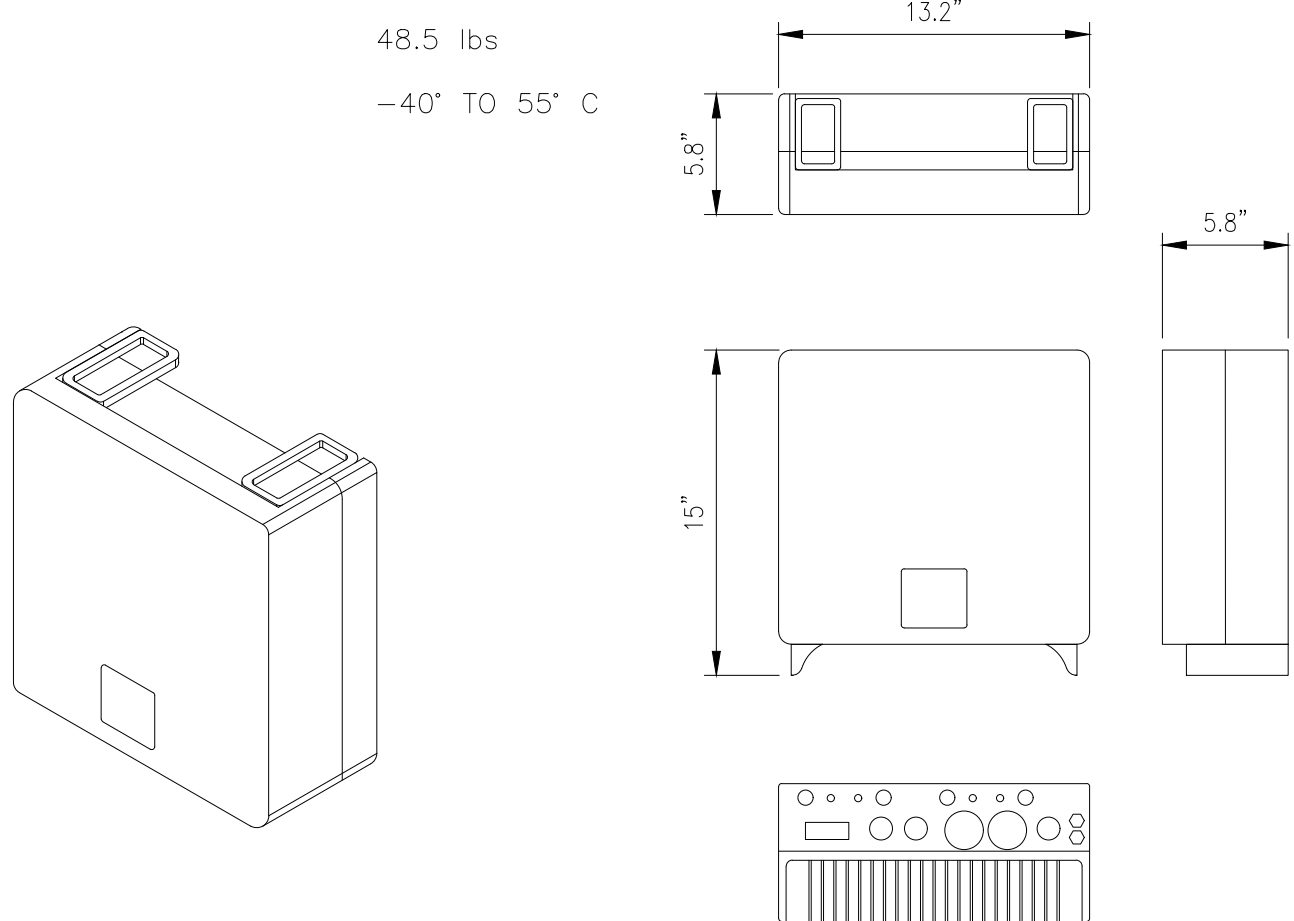
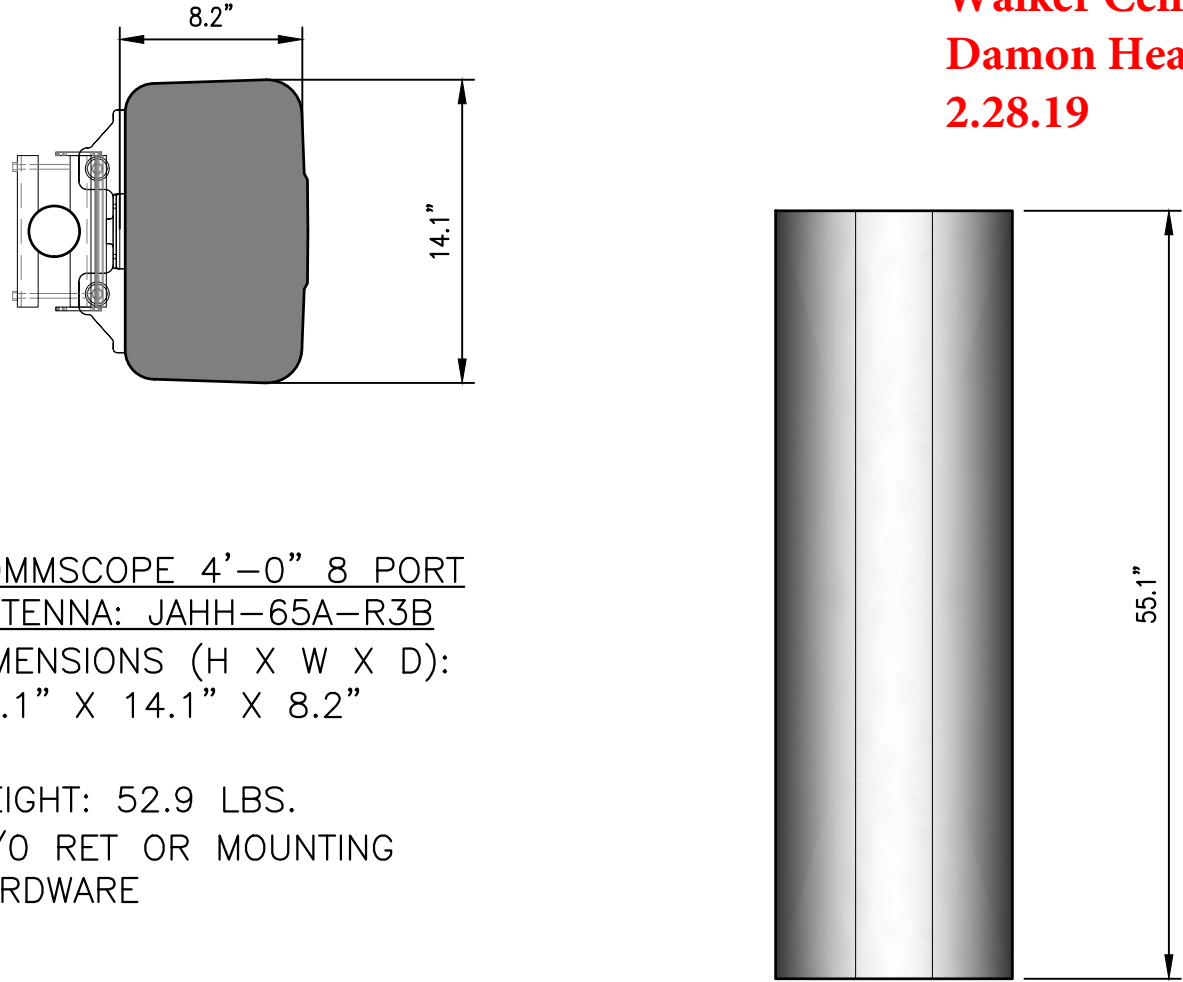

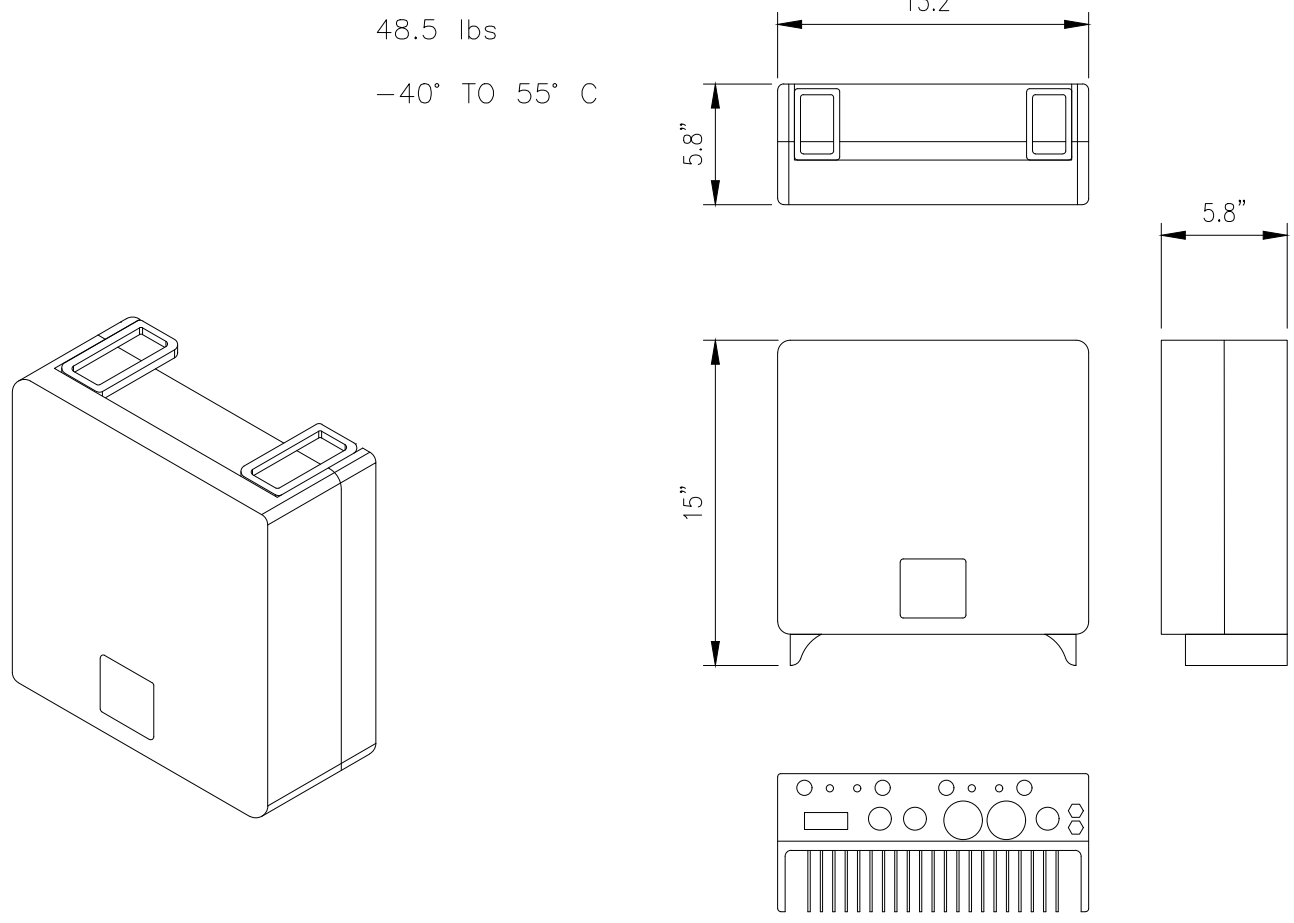
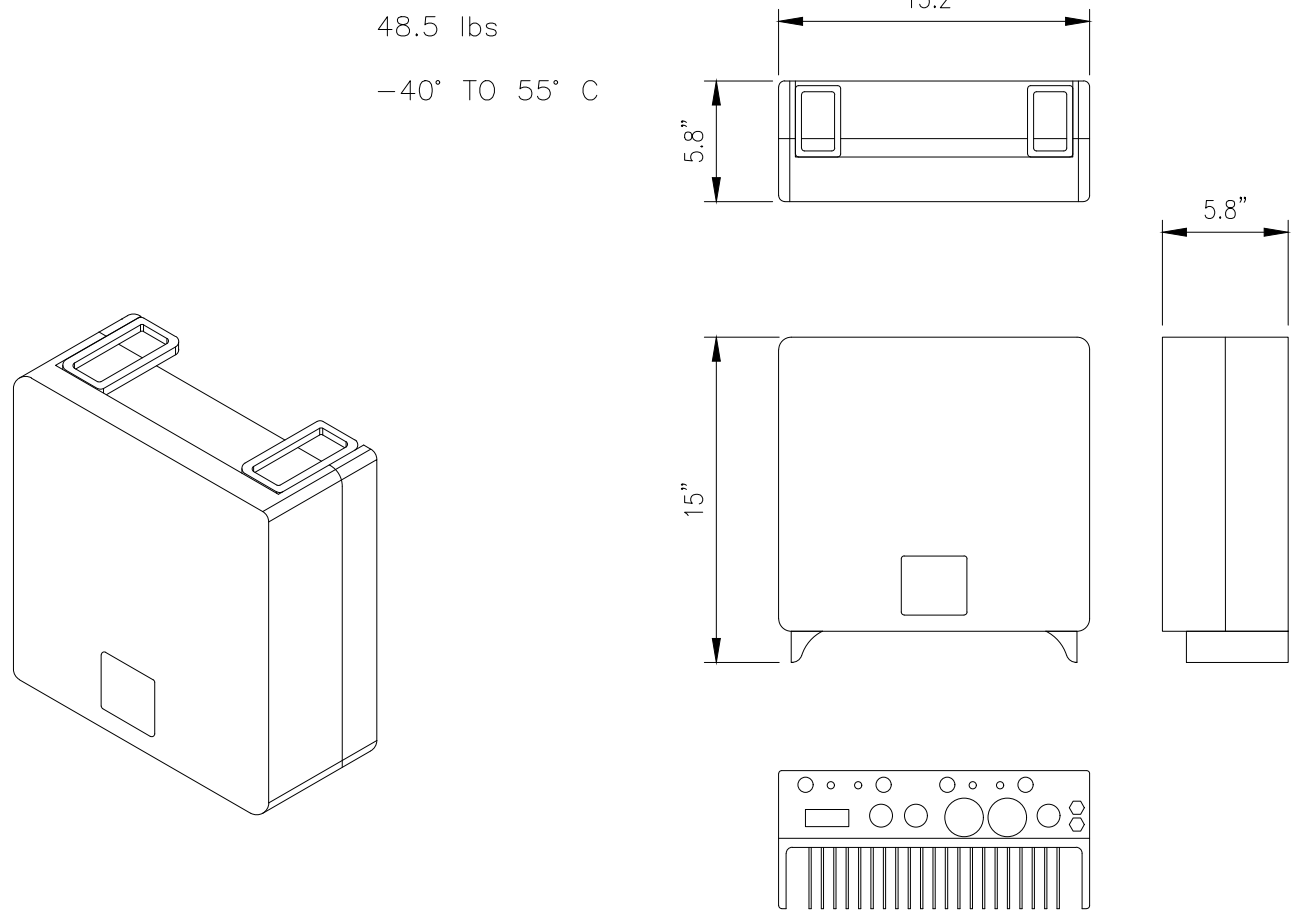
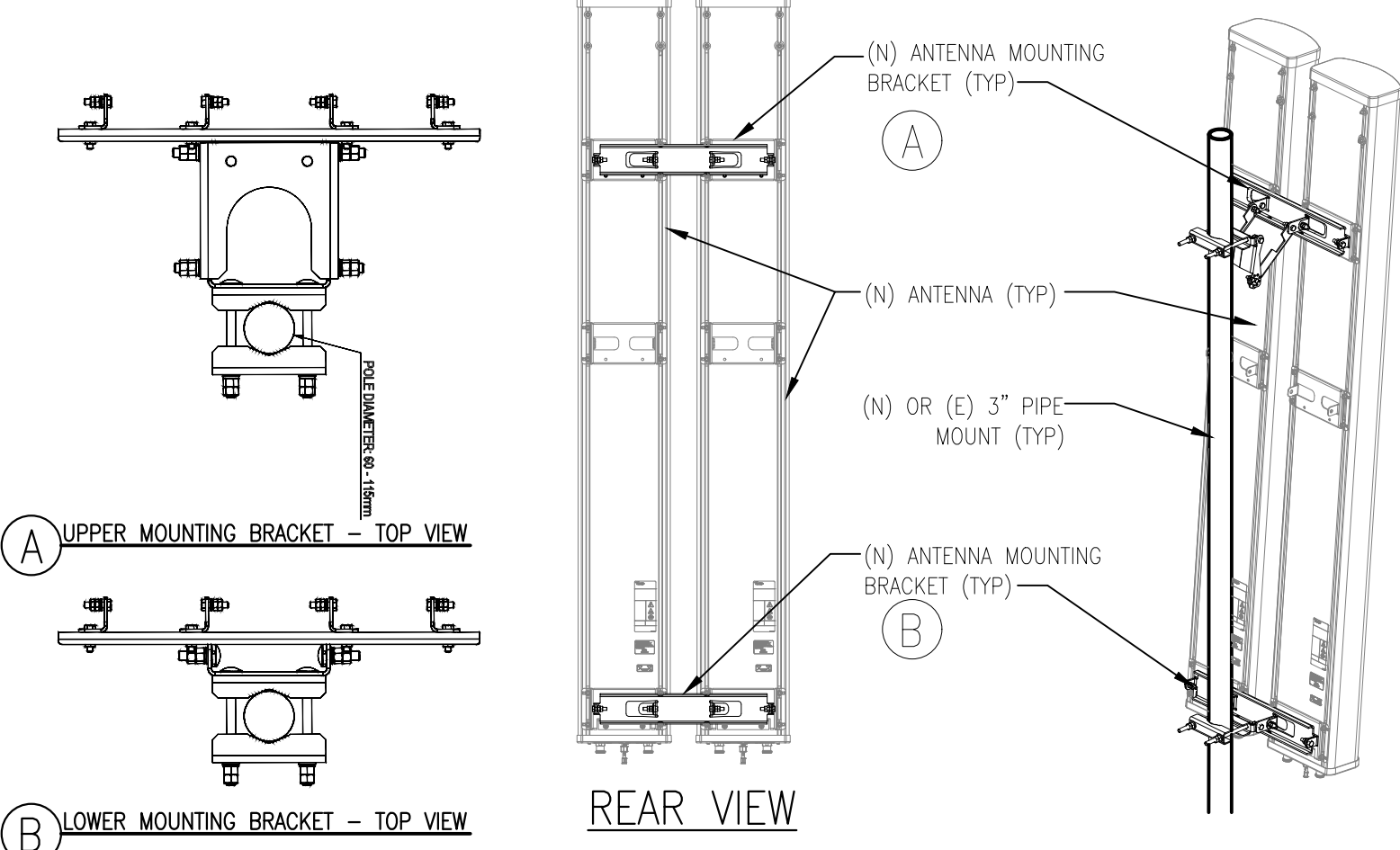

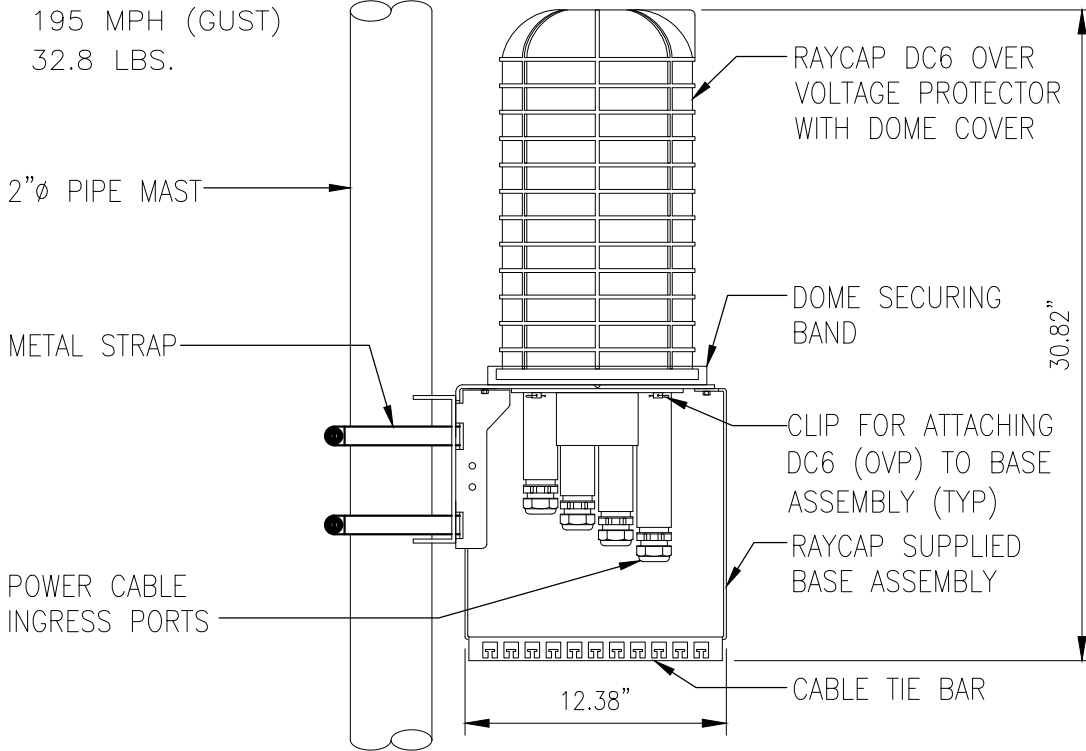
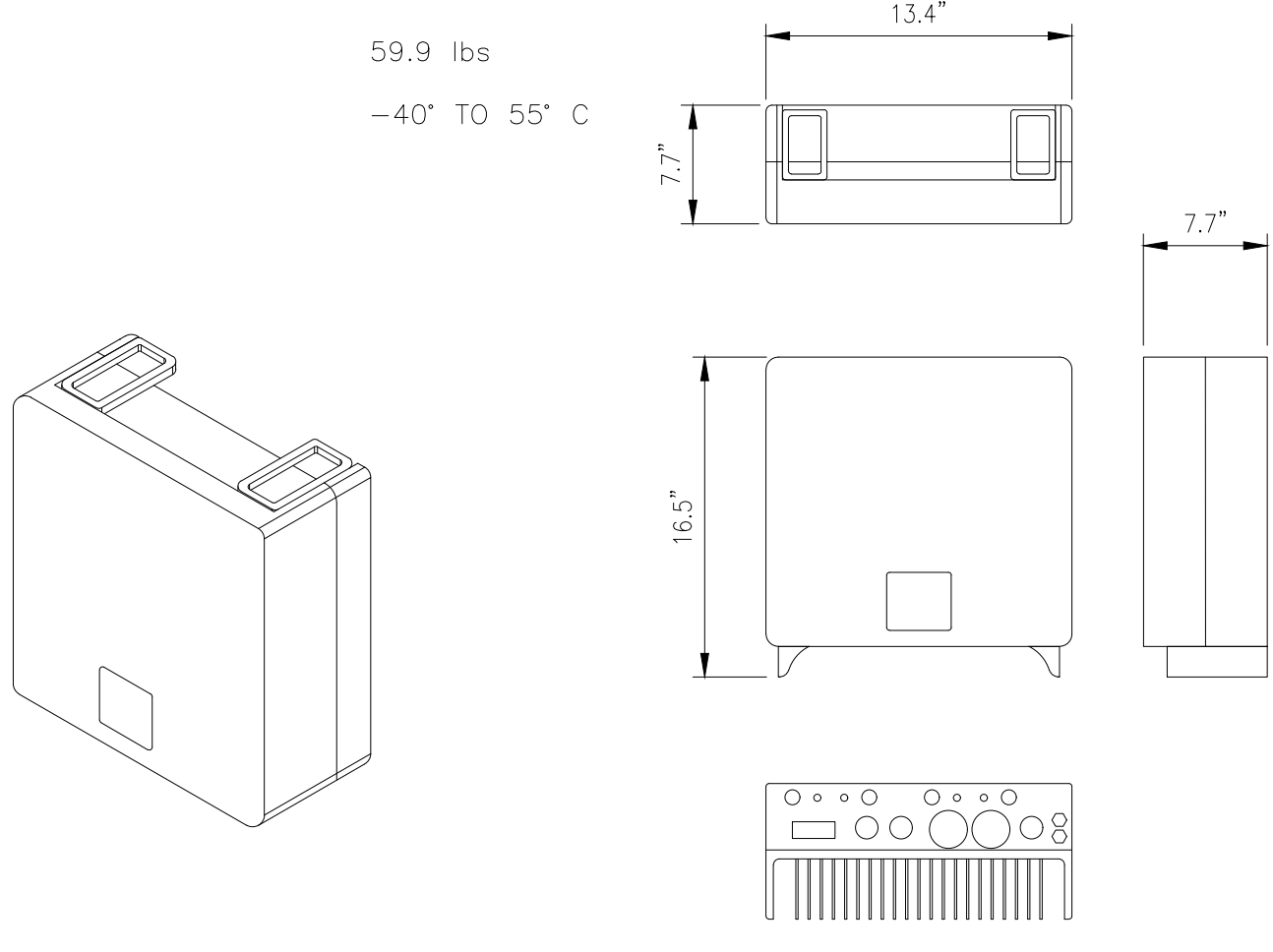
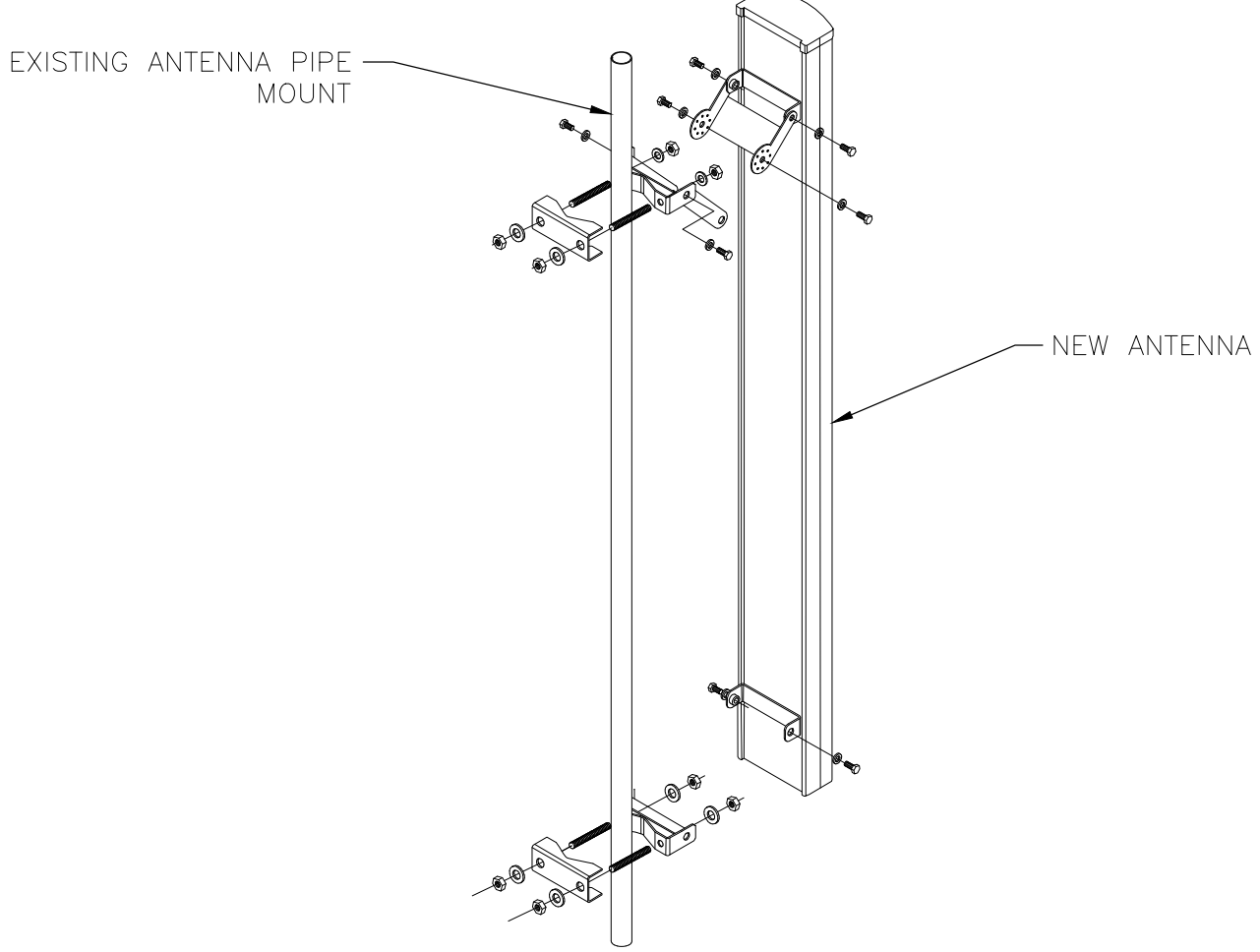

CCL04019/CNU04019
1-280 & CROOKED CREEK
23600 VIA ESPLENDOR
CUPERTINO, CA 95014
MONO-EUC/OUTDOOR

SHEET TITLE

ELEVATIONS

SHEET NUMBER

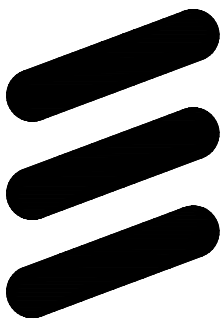
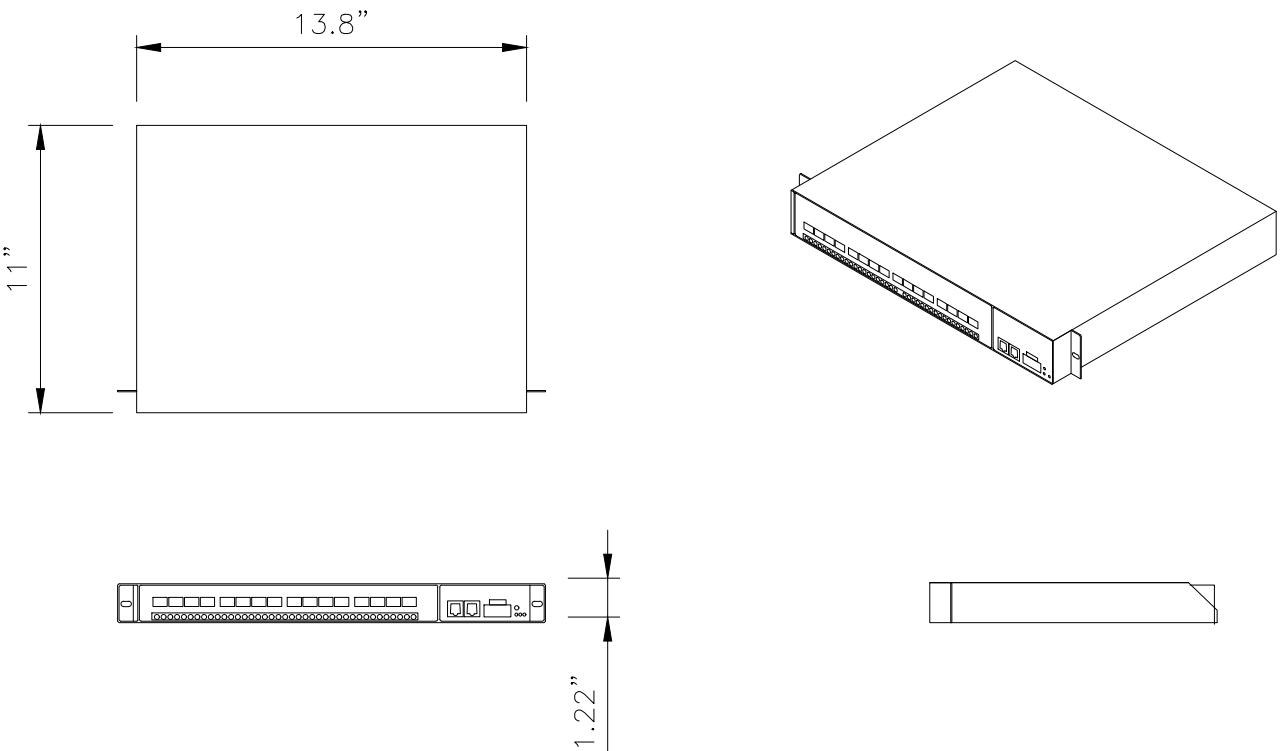
A-6

	<p>ERICSSON RRUS-4415 B25 DIMENSIONS, HxWxD: 15"x13.2"x5.8" POWER CONSUMPTION: 4x40 WATTS TOTAL WEIGHT: 48.5 lbs TEMPERATURE: -40° TO 55° C</p> 	<p>As-Built Walker Cellular, Inc. Damon Heaton 2.28.19</p>  <p>COMMSCOPE 4'-0" 8 PORT ANTENNA: JAHH-65A-R3B DIMENSIONS (H X W X D): 55.1" X 14.1" X 8.2"</p> <p>WEIGHT: 52.9 LBS. W/O RET OR MOUNTING HARDWARE</p>	 <p>5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583</p>												
<p>RRU MOUNTING DETAIL ✓</p>	<p>RRUS-4415 B25 SPECIFICATIONS ✓</p>	<p>COMMSCOPE 4'-0" 8 PORT ANTENNA ✓</p>	<p>at&t</p>												
<p>ERICSSON RRUS-4478 B5 DIMENSIONS, HxWxD: 15"x13.2"x5.8" POWER CONSUMPTION: 4x40 WATTS TOTAL WEIGHT: 48.5 lbs TEMPERATURE: -40° TO 55° C</p> 	<p>ERICSSON RRUS-4426 B66 DIMENSIONS, HxWxD: 15"x13.2"x5.8" POWER CONSUMPTION: 4x60 WATTS TOTAL WEIGHT: 48.5 lbs TEMPERATURE: -40° TO 55° C</p> 	 <p>COMMSCOPE - BSAMNT-SBS-2-2 SIDE-BY-SIDE MOUNTING KIT FOR ANTENNAS</p>	<p>PLANS PREPARED BY:</p>  <p>1875 CORONADO AVE SIGNAL HILL, CA 90745</p>												
<p>RRUS-4478 B5 SPECIFICATIONS ✓</p>	<p>RRUS-4426 B66 SPECIFICATIONS ✓</p>	<p>FNET - VENDOR BRACKET ✓</p>	<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>INT</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>05/11/18</td> <td>100% CD DRAWINGS</td> <td>SV</td> </tr> <tr> <td>0</td> <td>04/03/18</td> <td>90% CD DRAWINGS</td> <td>RF</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	INT	1	05/11/18	100% CD DRAWINGS	SV	0	04/03/18	90% CD DRAWINGS	RF
REV	DATE	DESCRIPTION	INT												
1	05/11/18	100% CD DRAWINGS	SV												
0	04/03/18	90% CD DRAWINGS	RF												
<p>ERICSSON RRUS-4478 B14 DIMENSIONS, WxDxH: 280x610 mm (11"x24") NOMINAL OPERATING VOLTAGE: 48 VDC NOMINAL DISCHARGE CURRENT: 20 kA 8/20 s MAXIMUM DISCHARGE CURRENT: 60 kA 8/20 s MAXIMUM CONTINUOUS OPERATING VOLTAGE: 75 VAC VOLTAGE PROTECTION RATING: 400V WIND LOADING: 150 MPH (SUSTAINED) 195 MPH (GUST) TOTAL WEIGHT: 32.8 LBS.</p> 	<p>ERICSSON RRUS-4478 B14 DIMENSIONS, HxWxD: 16.5"x13.4"x7.7" POWER CONSUMPTION: 4x40 WATTS TOTAL WEIGHT: 59.9 lbs TEMPERATURE: -40° TO 55° C</p> 		 <p>IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.</p>												
<p>RAYCAP DC6-48-60-18-8F ✓</p>	<p>RRUS-4478 B14 SPECIFICATIONS ✓</p>	<p>TYPICAL ANTENNA MOUNTING DETAIL ✓</p>	<p>CCL04019/CNU04019 1-280 & CROOKED CREEK 23600 VIA ESPLENDOR CUPERTINO, CA 95014 MONO-EUC/OUTDOOR</p> <p>SHEET TITLE DETAILS</p> <p>SHEET NUMBER D-1</p>												

As-Built
Walker Cellular, Inc.
Damon Heaton
2.28.19

5216 BASEBAND

DIMENSIONS, WxDxH: (13.8"x11"x1.22")
MAX POWER CONSUMPTION: 80 W
BREAKER SIZE: MIN 15 A, MAX 20 A
TOTAL WEIGHT: ± 9 lbs



ERICSSON

6140 STONERIDGE MALL ROAD, SUITE 350
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PLANS PREPARED BY:



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23600 VIA ESPLENDOR
CUPERTINO, CA 95014
MONO-EUC/OUTDOOR

SHEET TITLE
DETAILS

SHEET NUMBER

D-2

NOT USED

NO SCALE

7

NOT USED

NO SCALE

4

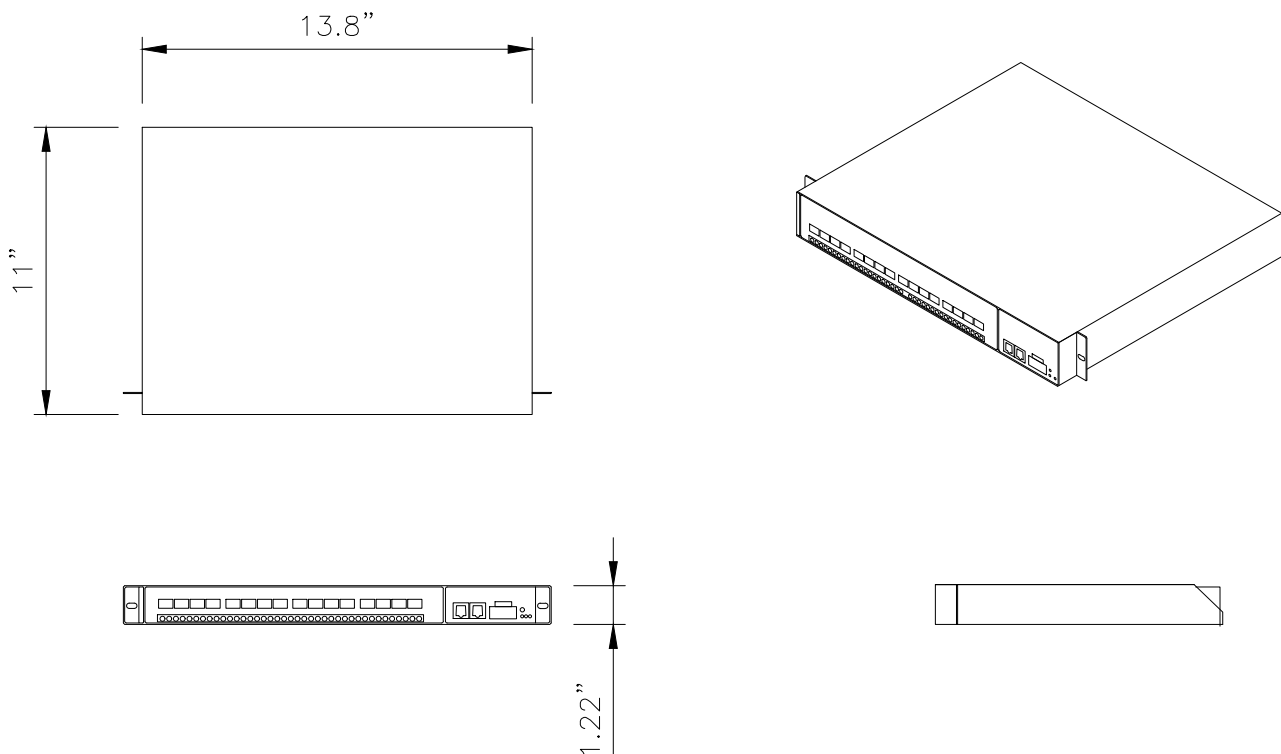
BASEBAND 5216 ✓

NO SCALE

1

XMU_03

DIMENSIONS, WxDxH: (13.8"x11"x1.22")
MAX POWER CONSUMPTION: 80 W
BREAKER SIZE: MIN 15 A, MAX 20 A
TOTAL WEIGHT: ± 5 lbs



NOT USED

NO SCALE

8

NOT USED

NO SCALE

5

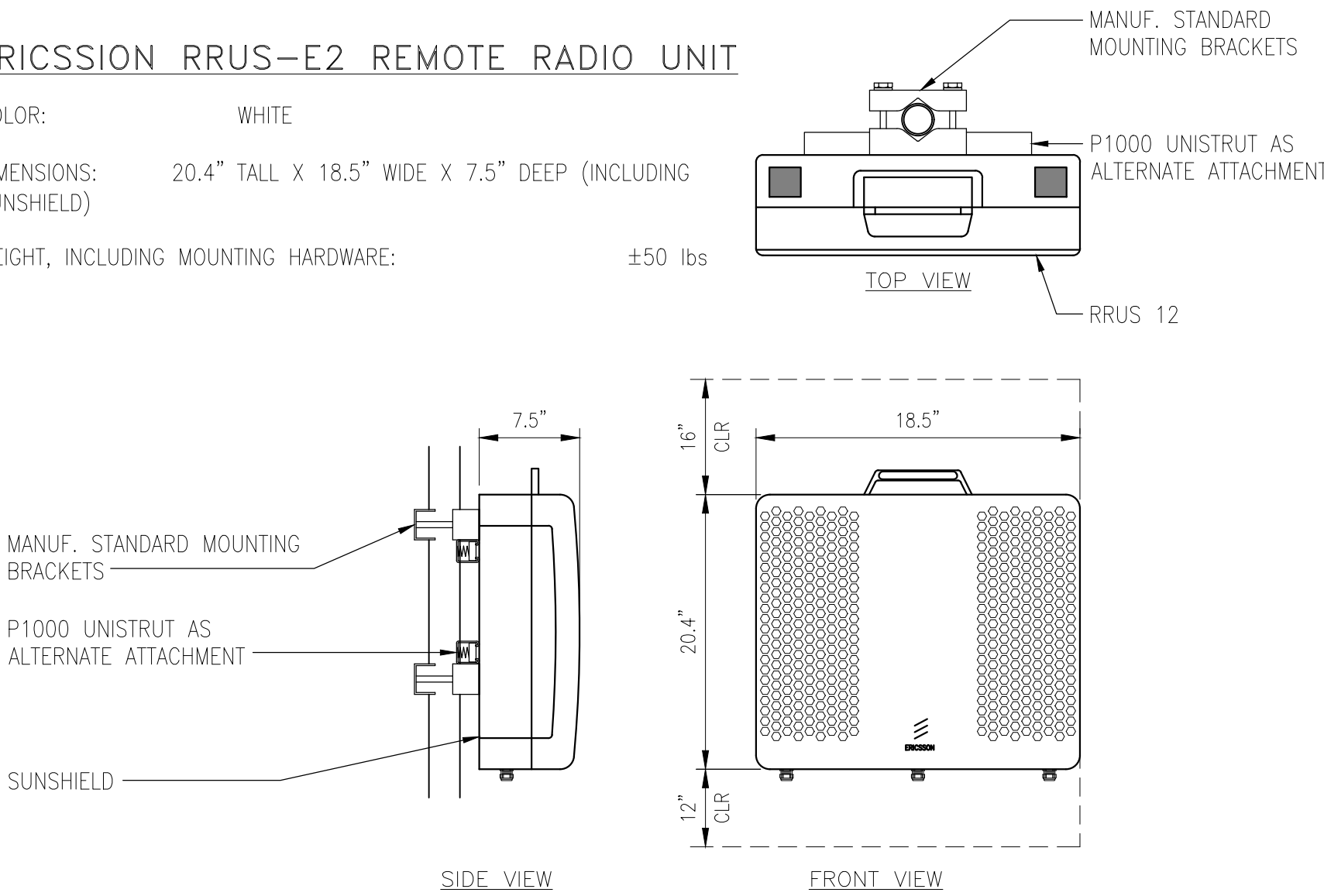
XMU_03 DETAIL ✓

NO SCALE

2

ERICSSON RRUS-E2 REMOTE RADIO UNIT

COLOR: WHITE
DIMENSIONS: 20.4" TALL X 18.5" WIDE X 7.5" DEEP (INCLUDING SUNSHIELD)
WEIGHT, INCLUDING MOUNTING HARDWARE: ±50 lbs



NOT USED

NO SCALE

9

NOT USED

NO SCALE

6

RRUS-E2 SPECIFICATIONS ✓

NO SCALE

3

GENERAL NOTES:

1. PLAN DRAWINGS SHOWN HEREIN ARE DIAGRAMMATIC AND DOES NOT NECESSARILY DEPICT THE EXACT EQUIPMENT QUANTITIES, LOCATION, LAYOUT AND CONFIGURATION. REFER TO ARCHITECTURAL PLANS FOR EXACT EQUIPMENT LOCATION, LAYOUT AND CONFIGURATION.
2. PLAN DRAWINGS SHOWN HEREIN DO SHOW THE NECESSARILY DEPICT ELECTRICAL REQUIREMENTS OF INDIVIDUAL EQUIPMENT AND DEVICES SUCH AS THE EQUIPMENT GROUNDING REQUIREMENTS, POWER REQUIREMENTS AND TELCO RACEWAY REQUIREMENTS.
3. REFER TO ARCHITECTURAL PLANS FOR THE LOCATION OF POWER AND TELCO POINT OF CONNECTIONS, THE DISTANCE OF THE RUN AND THE SUGGESTED CONDUIT ROUTING. FIELD VERIFY EXISTING CONDITIONS SPECIFICALLY FOR CONDUIT ROUTING PRIOR TO BID.
4. ALL NEW GROUNDING WORK SHALL BE IN ACCORDANCE TO THE AT&T GROUNDING STANDARDS

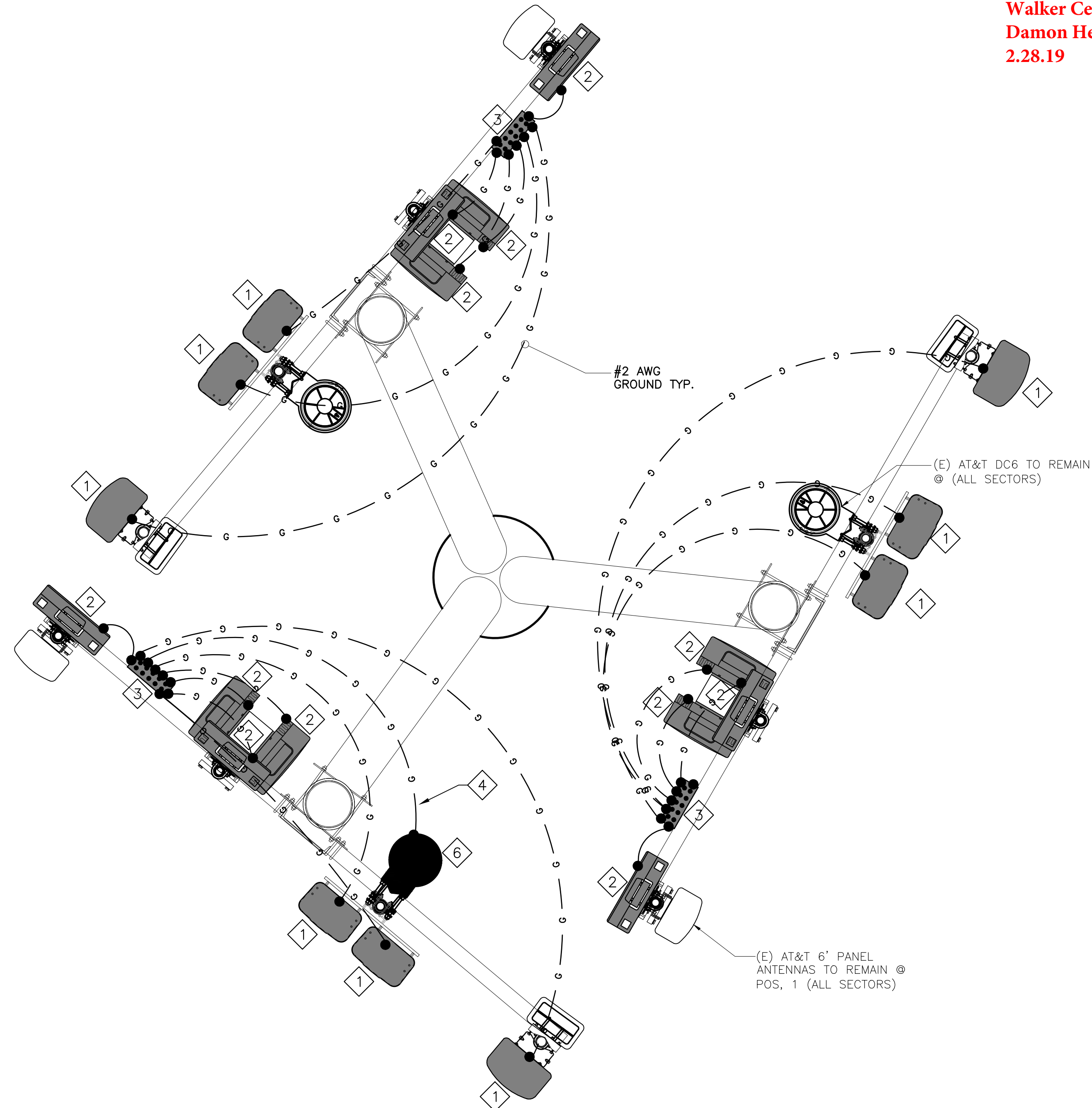
ALL WORK SHALL BE IN ACCORDANCE TO THE AT&T GROUNDING STANDARDS MORE SPECIFICALLY, ALL CONNECTIONS SHALL BE MADE WITH AN EXOTHERMIC WELD PROCESS. WHERE EXOTHERMIC WELDS ARE NOT POSSIBLE, A 2-HOLE COMPRESSION TYP LUG IS PERMITTED

KEY NOTES

- 1 (N) AT&T PANEL ANTENNAS
- 2 (N) AT&T RRUS
- 3 (E) AT&T GROUNDING BUSS BAR
- 4 (N) AT&T DC-6 GROUNDED
- 5 #2 AWG INSULATED, COPPER WIRE (UNLESS OTHERWISE SPECIFIED). FOR NEW RRU'S NOTE: NEW RRU'S TO BE GROUNDED WITH (E) GROUNDING SYSTEM
- (N) AT&T DC-6

LEGEND

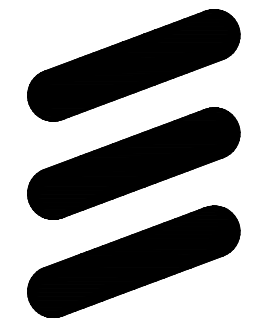
- MECHANICAL CONNECTION
- EXOTHERMIC WELD (CADWELD/THERMOWELD) CONNECTION.
- G— #2 AWG INSULATED, COPPER WIRE (UNLESS OTHERWISE SPECIFIED).
- S.O.H. S.O.H. SECONDARY OVERHEAD



As-Built
Walker Cellular, Inc.
Damon Heaton
2.28.19



5001 EXECUTIVE PARKWAY,
SAN RAMON, CA 94583



ERICSSON

6140 STONERIDGE MALL ROAD, SUITE 350
PLEASANTON, CA 94596

PLANS PREPARED BY:



1875 CORONADO AVE
SIGNAL HILL, CA 90745

REV	DATE	DESCRIPTION	INT
1	05/11/18	100% CD DRAWINGS	SV
0	04/03/18	90% CD DRAWINGS	RF



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

CCL04019/CNU04019
1-280 & CROOKED CREEK
23600 VIA ESPLENDOR
CUPERTINO, CA 95014
MONO-EUC/OUTDOOR

SHEET TITLE

GROUNDING LAYOUT

SHEET NUMBER

E-1

GROUNDING PLAN, LEGEND & NOTES

1

EXOTHERMIC (EXOTHERMIC)
COMPRESSION CONNECTION (TWO HOLE LUG OR EQUIVALENT)

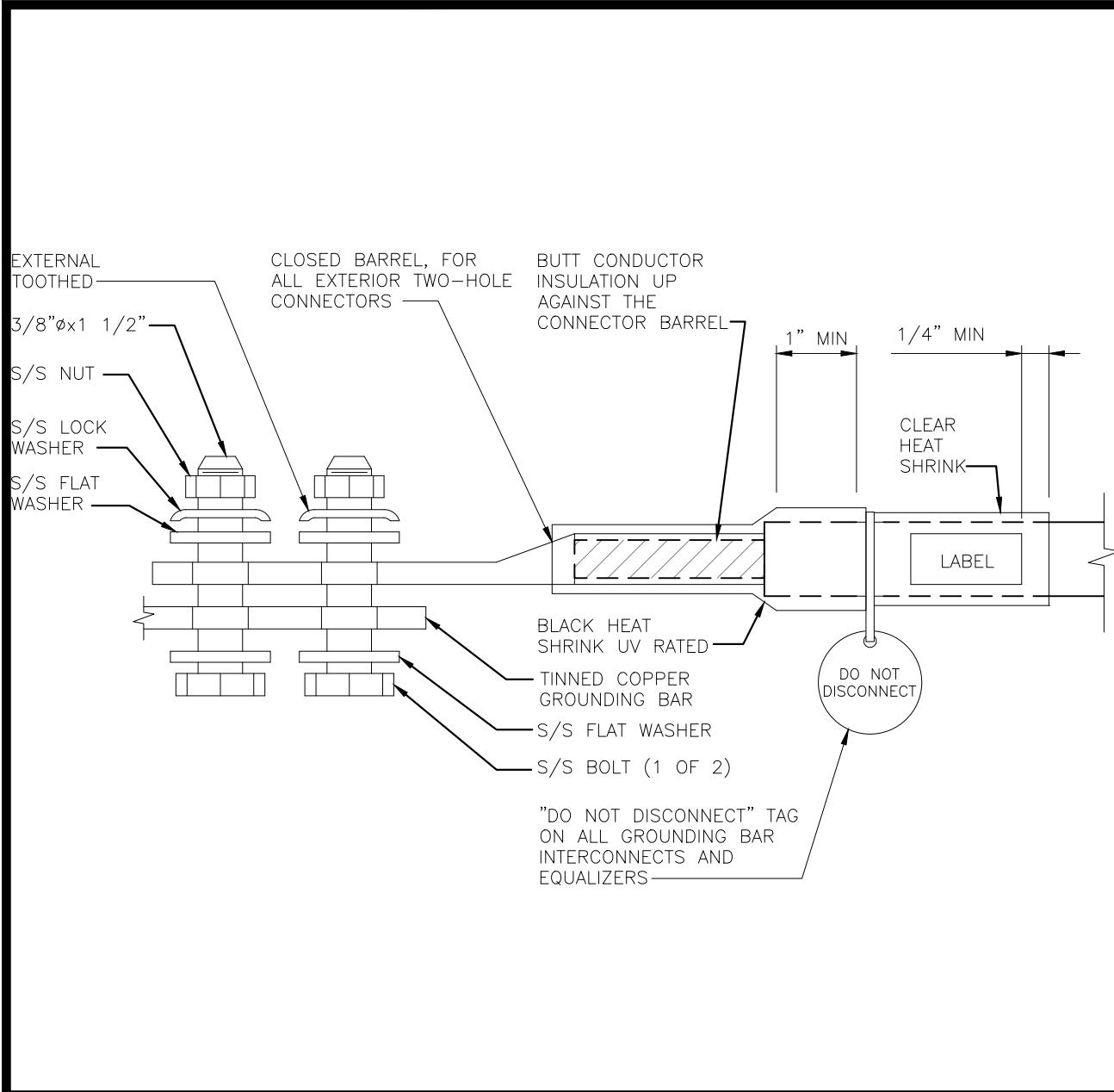
●
■

CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
GROUND ROD

TEST GROUND ROD WITH INSPECTION SLEEVE
EXOTHERMIC WITH INSPECTION SLEEVE

GROUNDING CONDUCTOR
GROUNDING BAR

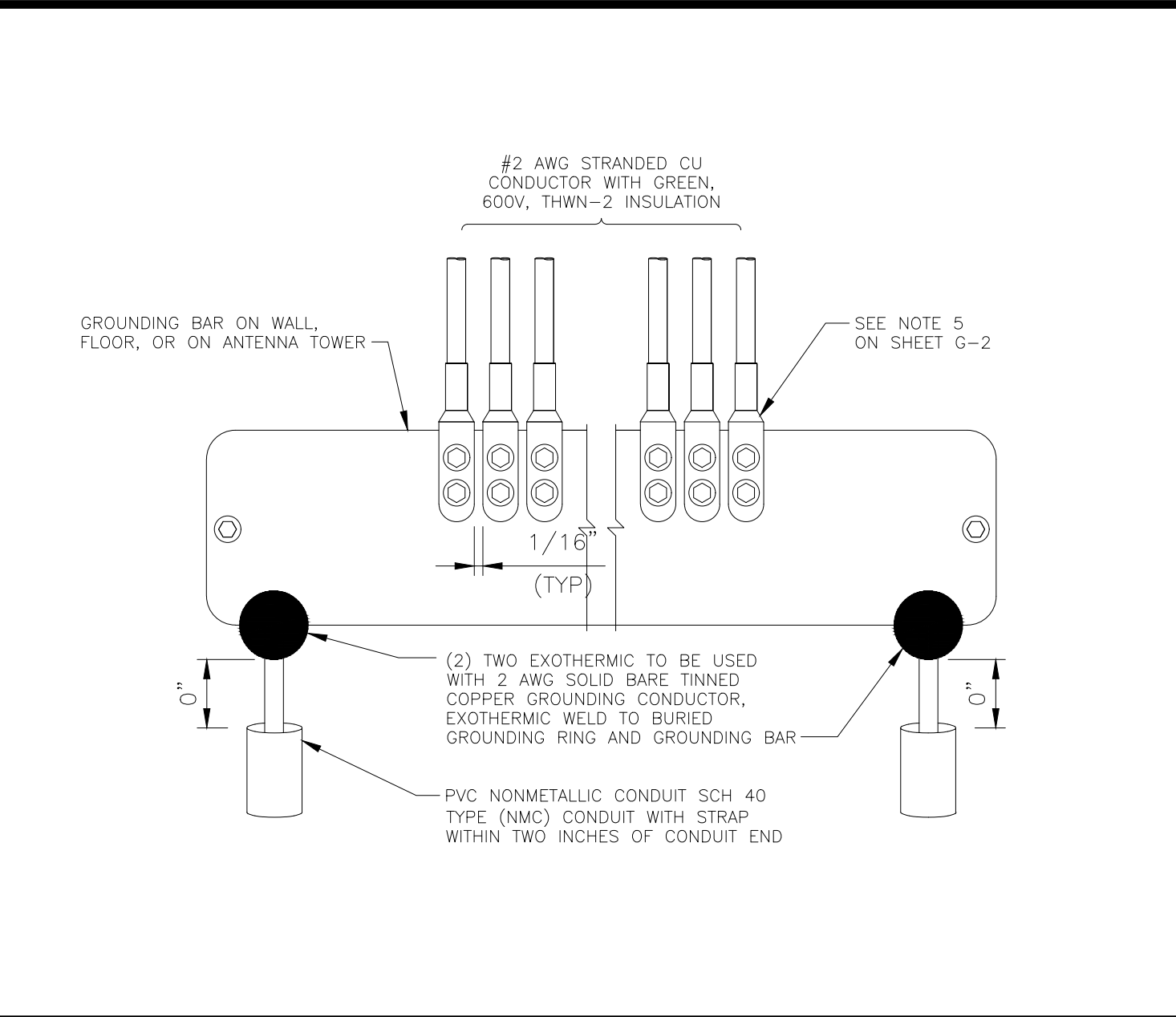
GRAPHICS LEGEND



EXTERIOR TWO HOLE LUG

SCALE:
NONE

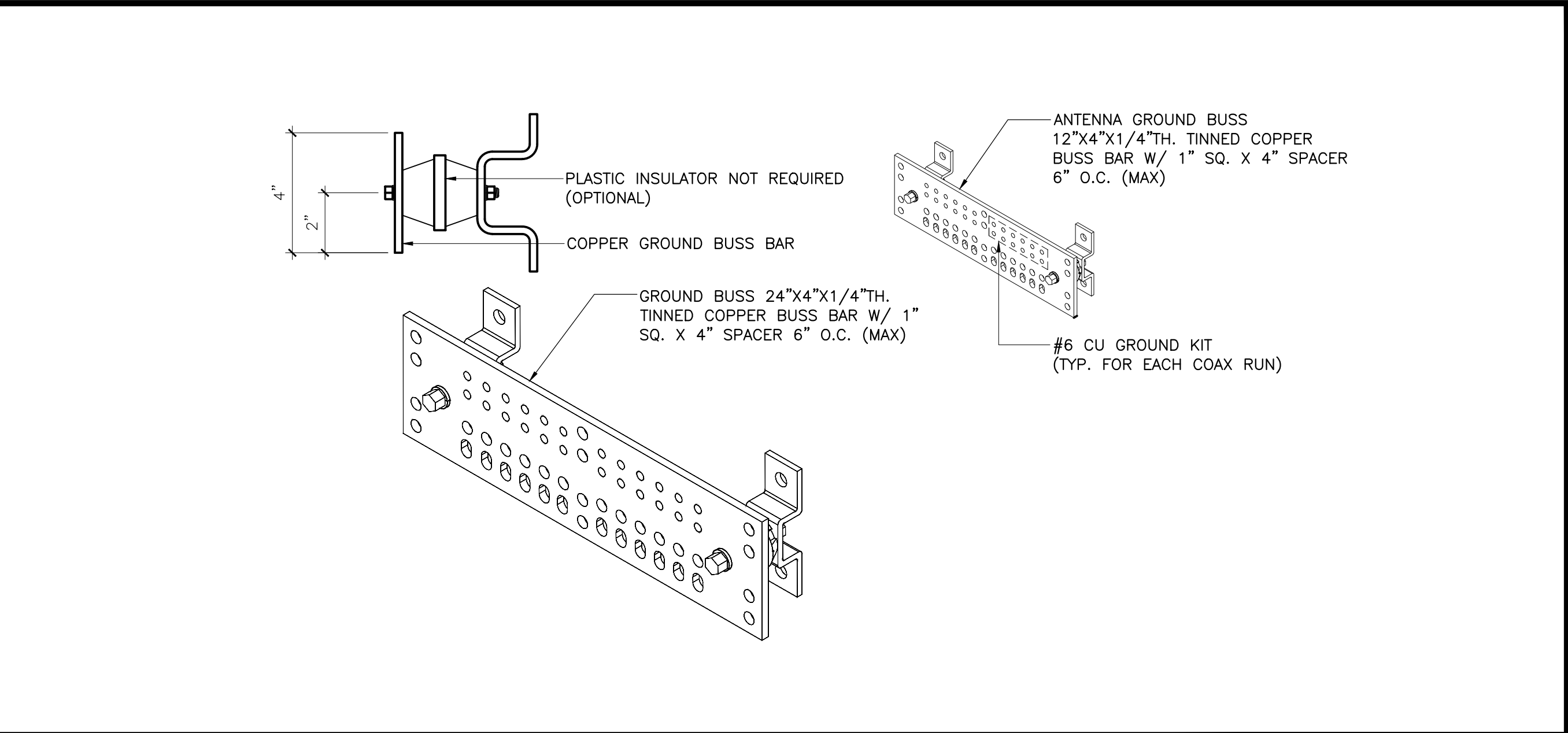
1



INSTL OF GRND CONDUCTOR TO GRND BAR

SCALE:
NONE

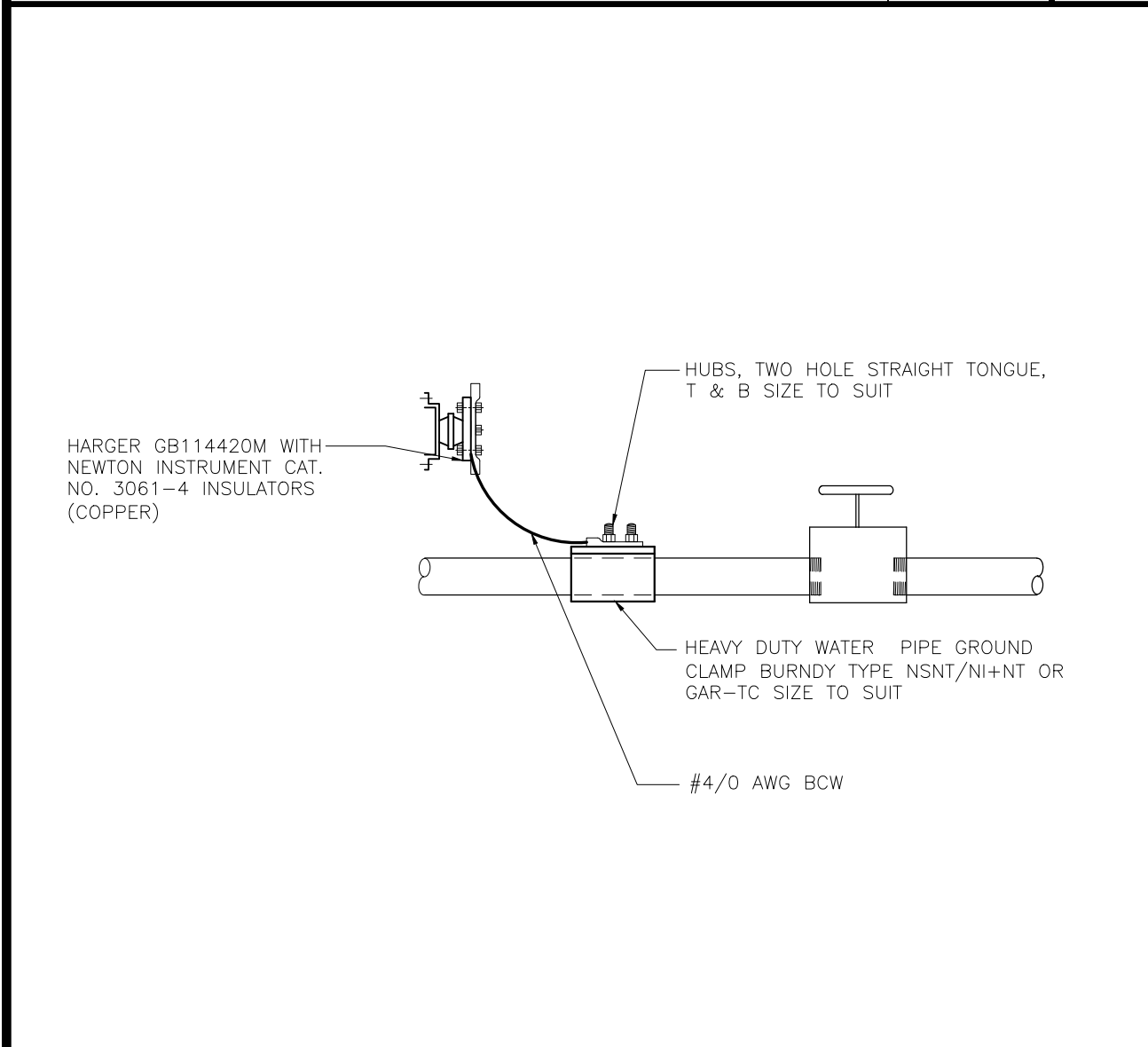
2



GROUND BAR

SCALE:
NONE

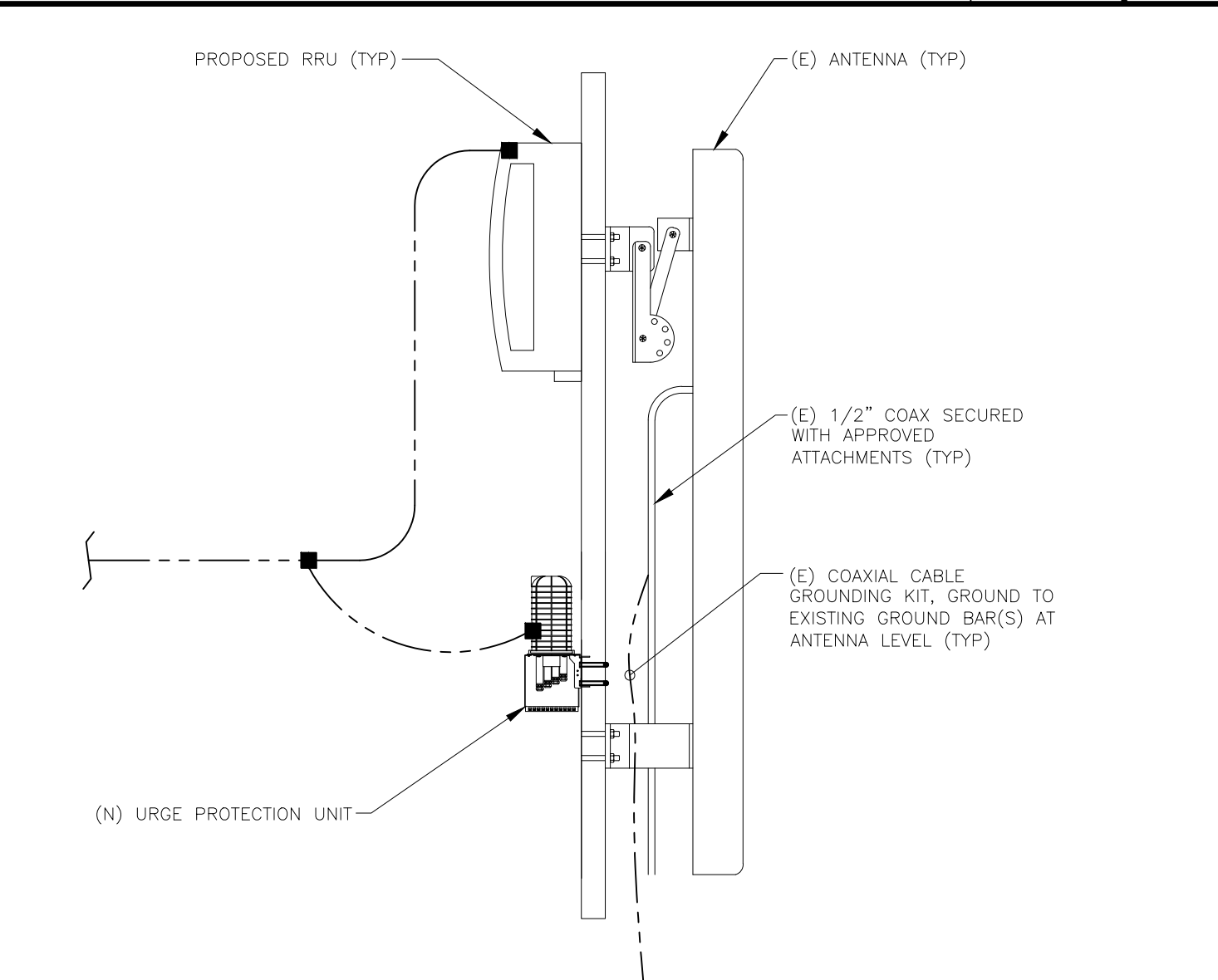
4



COLD WATER PIPE GRND

SCALE:
NONE

5



ANTENNA GROUNDING

SCALE:
NONE

6

- NOTES**
- REFERENCE DRAWING PAGE E-1 FOR KEY NOTE LEGEND.
 - COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
 - 2EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "I") WITH 1" HIGH LETTERS.
 - ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
 - FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
 - NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, 600 VOLT INSULATION, ON ALL GROUNDING TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
 - NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
 - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 - WEATHERPROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 - SUPPLIED AND INSTALLED BY CONTRACTOR.
 - WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
 - EXTEND TWO (2) 2 AWG TINNED CU CONDUCTOR FROM BURIED GROUNDING RING AND CONNECT TO THE PROPOSED TOWER. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR GROUNDING CONNECTIONS TO THE TOWER. (APPLICABLE TO NEW TOWERS ONLY.)
 - NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUNDING BARS AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
 - BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE. THE SUBCONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 AWG COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). SEE AT&T GROUNDING AND BONDING STANDARDS TP-76416 SPECIFICATION 6.3.2.2.
 - ALL GROUNDING BARS SHALL BE STAMPED IN TO THE METAL "IF STOLEN DO NOT RECYCLE." THE SUBCONTRACTOR SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "I") WITH 1" HIGH LETTERS.

GROUNDING NOTES

SCALE:
NONE

11

As-Built
Walker Cellular, Inc.
Damon Heaton
2.28.19

NOT USED

SCALE:
NONE

8

12

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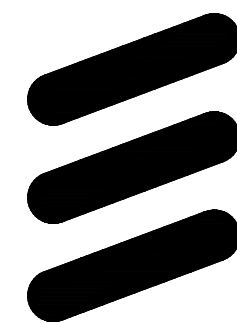
SHEET TITLE
GROUNDING DETAILS &
NOTES

SHEET NUMBER
E-2

As-Built
Walker Cellular, Inc.
Damon Heaton
2.28.19



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MONO-EUC/OUTDOOR

SHEET TITLE
RFDS PLUMBING DIAGRAM

SHEET NUMBER
RF-1

