FIRST AMENDMENT TO PERMIT AGREEMENT
No. 5345

This First Amendment to Permit Agreement ("First Amendment"), dated for reference purposes only as of April 9, 2019, is by and between the COUNTY OF SAN MATEO, a political subdivision of the State of California ("County" or "Permittor"), and NEW CINGULAR WIRELESS PCS, LLC, a Delaware limited liability company ("Permittee").

Recitals

A. As authorized by San Mateo County Resolution No. 71992, County and Permittee entered into a Permit Agreement, dated for reference purposes only as of June 19, 2012 (the "Permit"), which enabled Permittee to use a portion of the San Mateo County Event Center, located at 2495 South Delaware Street, San Mateo, California (the "Property"), consisting of (i) approximately 2,500 square feet of ground space, (ii) one (1) pre-fabricated equipment shelter, (iii) one (1) 70' high monopine, and (iv) the non-exclusive right of access over and through such portions of the Property as is necessary for Permittee's Use (collectively, the "Premises").

B. In connection with use of the Premisies, and for the Term of the Permit, Permittor granted Permittee a non-exclusive and non-possessory license co-terminus with the Permit for the placement and use of wiring and conduit.

C. The Permit expired on June 30, 2017, but remains in effect under the holdover provision set forth in Section 26 (Holding Over) of the Permit.

D. County and Permittee desire to amend the Permit to extend the Term, modify the equipment, and increase the Base Permit Fee accordingly.

Agreement

For good and valuable consideration as hereinafter set forth, the sufficiency of which is hereby acknowledged, the parties agree as follows:

1. **Use**. County hereby grants Permittee the right to modify the wireless communication site as shown in the attached plans drawn by Joseph J. Fitzsimons dated June 11, 2018. The project scope will consist of the following:

    i. Swap (8) Existing Antennas for (8) New Proposed Antennas

    ii. Swap (4) RRUS 12 B2 with (4) Proposed RRUS 4415 B25 near antennas;

    iii. Install (2) Proposed Diplexers

    iv. Install (3) Proposed RRUS 4478 B14 near antennas

    v. Install (4) Proposed RRUS 4426 B5 near antennas

vi. Install (4) Proposed RRUS 4478 B5 within existing shelter

vii. Install (4) Proposed RRUS E2 within existing shelter

viii. Install (2) Proposed 5216 within existing rack

ix. Install (4) Proposed XMU within existing rack

x. Install (1) Proposed Rectifier within existing cabinet

xi. Remove (8) Existing RRUW (1900) in existing shelter

xii. Remove (2) Existing DUS41 within existing rack

xiii. Remove (2) Existing DUW for UMTS 1900 within existing rack

xiv. Remove (1) Existing DUL within existing rack

xv. Install (1) Proposed DC 6 (Squid) on Tower @ 52' RAD

xvi. Install (1) Proposed .4" fiber trunk and (4) proposed .8" DC power trunk within Existing Monopole.

The installation, construction, and/or modification of equipment/facilities as described herein is subject to the issuance of a use permit and/or building permit as may be required and issued by the San Mateo County Department of Planning and Building. Permittee shall obtain all necessary governmental approvals and permits prior to commencing any improvements or modifications, and shall provide Permittor with ten (10) days written notice prior to the start of construction.

2. **Term**. Any reference to the Term in the Permit notwithstanding, the expiration date of the Permit is hereby extended to June 30, 2022.

3. **Option to Extend Term**. Permittee shall have the right to further extend the Term for one period of five (5) years beyond June 30, 2022 ("Extension Option"). If Permittee is not then in material default under the terms of the Permit as Amended, Permittee, at its sole discretion, may exercise the Extension Option, if at all, only by giving written notice to Permittor no later than September 30, 2023, but not sooner than July 1, 2023.

4. **Base Permit Fee**. Any references to the Base Permit Fee of the Permit as Amended notwithstanding, effective on the Effective Date (as defined herein), the Base Permit Fee shall increase to Five Thousand Five Hundred and NO/100 Dollars ($5,500.00), which rate shall be subject to adjustment in accordance with Section 7C. (Base Permit Fee Adjustment) of the Permit.

5. **Notice.** Section 28 of the Permit is hereby revised to change the Permittee's and Permittor's notice addresses to the following:

If to Permittee:

New Cingular Wireless PCS, LLC
Attn: Network Real Estate Administration
Re: Cell Site # CCL05203 Cell Site Name: Bay Meadows (**CA**)
Fixed Asset # 10150795
1025 Lenox Park Blvd NE, 3rd Floor
Atlanta, Georgia 30319

With a copy to:
New Cingular Wireless PCS, LLC
Attn.: Legal Dept – Network Operations
Re: Cell Site # CCL05203 Cell Site Name: Bay Meadows (**CA**)
Fixed Asset # 10150795
208 S. Akard Street
Dallas, TX 75202-4206

If to Permittor:

San Mateo County Events Center
Accounts Receivable (Ref. No. 5345)
2495 S. Delaware Street
San Mateo, CA 94403

With a copy to:
County of San Mateo
County Manager's Office
Real Property Division
555 County Center, 4th Floor
Redwood City, CA 94063

6. **Effective Date; Approval**. This First Amendment shall become effective (the "Effective Date") when the County Board of Supervisors adopts a resolution authorizing the execution of this First Amendment, and this First Amendment is duly executed by the County and delivered to Permittee.

   NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED IN THIS FIRST AMENDMENT, PERMITTOR ACKNOWLEDGES AND AGREES THAT NO OFFICER OR EMPLOYEE OF COUNTY HAS AUTHORITY TO COMMIT COUNTY HERETO UNLESS AND UNTIL THE COUNTY BOARD OF SUPERVISORS HAS ADOPTED A RESOLUTION AUTHORIZING THE EXECUTION OF THIS FIRST AMENDMENT TO THE PERMIT. THEREFORE, ANY OBLIGATIONS OR LIABILITIES OF COUNTY HEREUNDER ARE CONTINGENT UPON ADOPTION OF SUCH A RESOLUTION, AND THIS FIRST AMENDMENT SHALL BE NULL AND VOID UNLESS THE BOARD OF SUPERVISORS ADOPTS A RESOLUTION AUTHORIZING THE EXECUTION OF THIS FIRST AMENDMENT. APPROVAL OF THIS FIRST AMENDMENT BY ANY DEPARTMENT, COMMISSION OR AGENCY OF COUNTY SHALL NOT

BE DEEMED TO IMPLY THAT SUCH RESOLUTION WILL BE ADOPTED, NOR WILL ANY SUCH APPROVAL CREATE ANY BINDING OBLIGATIONS ON COUNTY.

7. **Counterparts**. This First Amendment may be executed in two or more counterparts, each of which shall be deemed an original, but all of which taken together shall constitute one and the same instrument.

8. **No Further Amendments; Conflicts**. All the terms and conditions of the Permit remain in full force and effect except as expressly amended herein. The Permit as amended by this First Amendment constitutes the entire agreement between County and Permittee and may not be modified except by an instrument in writing duly executed by the parties hereto. In the event of any conflict between the terms of the Permit and the terms of this First Amendment, the terms of this First Amendment shall control.

Balance of Page Intentionally Blank

County and Permittee have executed this First Amendment to Permit Agreement as of the date first written above.

PERMITTEE:
NEW CINGULAR WIRELESS PCS, LLC,
a Delaware Limited Liability Company

By: AT&T Mobility Corporation
Its: Manager

By: _____

Name: Michael Gulbord

Title: Director Construction & Engineering

COUNTY:
COUNTY OF SAN MATEO,
a political subdivision of the State of California

By: _____
Carole Groom
President, Board of Supervisors

Attest:

_____
Clerk of the Board

Resolution No.: _____

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 ADMINISTRATIVE CODE, CHAPTER 10, PART 1, TITLE 24 CODE OF REGULATIONS
2) 2016 CALIFORNIA BUILDING CODE (CBC)
3) 2016 CALIFORNIA RESIDENTIAL CODE (CRC) WITH APPENDIX H, PATIO COVERS, BASED ON THE 2015 IRC (PART 2.5)
4) 2016 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CALGREEN) (PART 11) (AFFECTED ENERGY PROVISIONS ONLY)
5) 2016 CALIFORNIA FIRE CODE (CFC), BASED ON THE 2015 IFC, WITH CALIFORNIA AMENDMENTS (PART 9)
6) 2016 CALIFORNIA MECHANICAL CODE (CMC), BASED ON THE 2015 UMC (PART 4)
7) 2016 CALIFORNIA PLUMBING CODE (CPC), BASED ON THE 2015 UPC (PART 5)
8) 2016 CALIFORNIA ELECTRICAL CODE (CEC) WITH CALIFORNIA AMENDMENTS, BASED ON THE 2014 NEC (PART 3)
9) 2016 CALIFORNIA ENERGY CODE (CEC)- PART 6
10) ANSI / EIA-TIA-222-G
11) 2016 NFPA 101, LIFE SAFETY CODE
12) 2016 NFPA 72, NATIONAL FIRE ALARM CODE
13) 2016 NFPA 13, FIRE SPRINKLER CODE

AT&T

USID: 119979
FA#: 10150795
LTE 7C
PTN#: 3701A0E939
PACE#: MRSFR045496
LTE 6C
PTN#: 3701A0AHPN
PACE#: MRSFR037286
LTE 5C
PTN#: 3701A0AJ3F
PACE#: MRSFR037522
LTE 4C
PTN#: 3701A0AHTL
PACE#: MRSFR037360
PCS ANTENNA MOD 4TXRX
PTN#: 3701A0BBM7
PACE#: MRSFR038403

SITE NUMBER: CCL05203
SITE NAME: BAY MEADOWS
SITE TYPE: MONOPINE / INDOOR EQUIPMENT
ADDRESS: 2495 S. DELAWARE STREET
SAN MATEO, CA 94403

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES AND MODIFICATIONS.

DISCIPLINE:	SIGNATURE	DATE
RF ENGINEER:		
AT&T PM:		
CIVIL:		
A&E:		
SAQ PM:		
PROPERTY OWNER:		

PREPARED FOR

AT&T
5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583

Vendor:

JS INFRASTRUCTURE
1150 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

PROJECT TEAM

APPLICANT / LESSEE:

AT&T MOBILITY SERVICES, LLC
5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583
CONTACT: JENNIFER MATHEWS
Site Acquisition Manager
EMAIL: jm5344@att.com
PH: (925) 277-6374
CELL: (310) 740-0691

PROJECT MANAGER, LEASING & ZONING:

JS INFRASTRUCTURE PARTNERS
1150 BALLENA BLVD. SUITE 259
ALAMEDA, CA 94501
CONTACT: CHARLES OTIS
EMAIL: cotis@jsip.com
PH: (805) 680-5453

CONSTRUCTION MANAGER:

AT&T MOBILITY SERVICES, LLC
5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583
CONTACT: PHUNG NGUYEN
Sr. Specialist-Tech
Vendor Management
Technology Operations
EMAIL: phungnguyen@att.com
PH: (925) 277-6480
CELL: (408) 391-0786

ENGINEER:

JS INFRASTRUCTURE PARTNERS
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614
CONTACT: JOE FITZSIMONS
email: jfitzsimons@jsip.com
ph: (949) 247-7767 ext 116

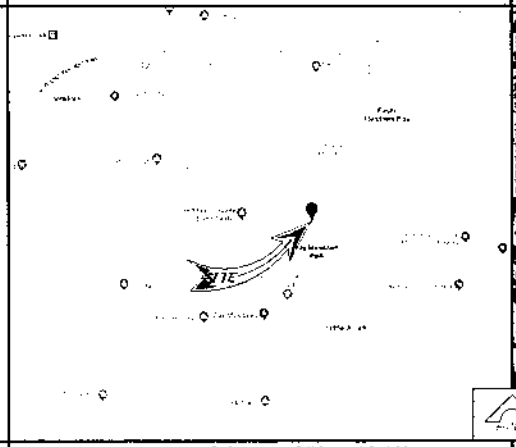
RF ENGINEER:

AT&T MOBILITY SERVICES, LLC
5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583
CONTACT: TARUN SETHI
RF Design
EMAIL: ts458v@att.com
PH: (317) 201-9601

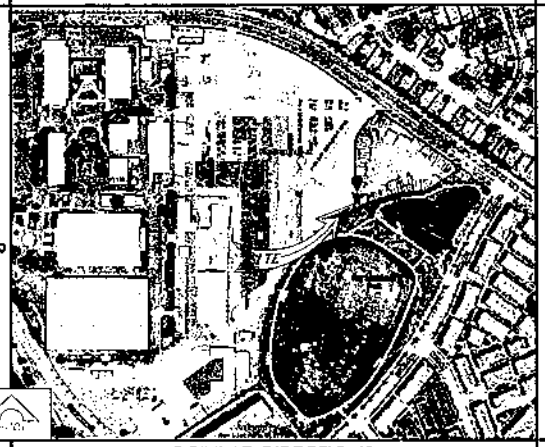
A&E MANAGER:

JS INFRASTRUCTURE PARTNERS
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614
CONTACT: JASON OFFINEER
EMAIL: joffineer@jsip.com
PH: (619) 270-4859

VICINITY MAP



LOCAL MAP



PROJECT DESCRIPTION

MODIFICATION TO AN UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:

AT&T WIRELESS PROJECT SCOPE WILL CONSIST OF THE FOLLOWING:

- SWAP (8) EXISTING PANEL ANTENNAS WITH (6) PROPOSED PANEL ANTENNAS
- SWAP (4) RRUS 12 B2 WITH (4) PROPOSED RRUS 4415 B25 NEAR ANTENNAS, TYP. (1) PER SECTOR
- INSTALL (2) PROPOSED DIPLEXERS AT SECTORS 'B' & 'D' ANTENNAS
- INSTALL (3) PROPOSED RRUS 4478 B14 NEAR ANTENNAS, (1) PER SECTOR
- INSTALL (4) PROPOSED RRUS 4476 B66 NEAR ANTENNAS, (1) PER SECTOR
- INSTALL (4) PROPOSED RRUS 4478 B5 ON EXISTING H-FRAME WITHIN EXISTING SHELTER
- INSTALL (4) PROPOSED RRUS E2 ON EXISTING H-FRAME WITHIN EXISTING SHELTER
- INSTALL (2) PROPOSED S216 WITHIN EXISTING RACK
- INSTALL (4) PROPOSED XMU WITHIN EXISTING RACK
- INSTALL (1) PROPOSED RECTIFIER WITHIN EXISTING DCPP CABINET
- REMOVE (8) EXISTING RRUW (1900) ON EXISTING H-FRAME WITHIN EXISTING SHELTER, TYP. (2) PER SECTOR
- REMOVE (2) EXISTING DUS41 WITHIN EXISTING RACK
- REMOVE (2) EXISTING DUW FOR UMTS (1900) WITHIN EXISTING RACK
- REMOVE (1) EXISTING DUL WITHIN EXISTING RACK
- INSTALL (1) PROPOSED DC6 (SQUID) ON TOWER AT 52' RAD CENTER
- INSTALL (1) PROPOSED 0.4"Ø FIBER TRUNK & (4) PROPOSED 0.8"Ø DC POWER TRUNK WITHIN EXISTING MONOPOLE

SITE INFORMATION

PROPERTY OWNER:
COUNTY OF SAN MATEO
C/O SAN MATEO EVENT CENTER
2495 S DELAWARE ST
SAN MATEO, CA 94403

JURISDICTION:	CITY OF SAN MATEO
A.P.N.:	040-030-220
CURRENT ZONING:	-
EXISTING USE:	COMMUNICATIONS FACILITY
PROPOSED USE:	COMMUNICATIONS FACILITY
LATITUDE (NAD 83):	37.5466480 37° 32' 47.9328" N
LONGITUDE (NAD 83):	-122.2985820 122° 17' 54.8952" W

ACCESSIBILITY REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS NOT REQUIRED PER CBC2016, SECTION 1 11B-203.4 (LIMITED ACCESS SPACE)

POWER AGENCY:
PG&E
PH: (800) 743-5000
TELEPHONE AGENCY:
AT&T

RFDS VERSION: 3.00
DATE: 03/16/18

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

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.

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.

STATEMENTS

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.

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.

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T OFFICE: 5001 EXECUTIVE PKWY, SAN RAMON CA 94583

1. HEAD SOUTH TOWARD BOLLINGER CANYON RD
2. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD
3. TURN LEFT ONTO NORRIS CANYON RD
4. TURN LEFT ONTO CROW CANYON RD
5. CONTINUE ONTO GROVE WAY
6. USE THE LEFT 2 LANES TO TURN LEFT ONTO CENTER ST
7. CONTINUE ONTO B ST
8. TURN LEFT ONTO MISSION BLVD
9. TURN RIGHT ONTO CA-92 W/JACKSON ST
10. TAKE EXIT 12C FOR DELAWARE ST
11. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR 19TH AVENUE/CONCAR DRIVE
12. TURN LEFT ONTO CONCAR DR
13. CONCAR DR TURNS LEFT AND BECOMES PACIFIC BLVD
14. TURN RIGHT ONTO S DELAWARE ST
15. TURN RIGHT ONTO S DELAWARE ST
16. TURN LEFT ONTO SARATOGA DR
17. TURN RIGHT ONTO EVENT CENTER
18. SITE WILL BE ON THE LEFT

DIGALERT
800-227-2600
Call 2 full Working Days in Advance

SHEET INDEX

		REV.
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
GN-2	SITE SIGNAGE	1
A-1	OVERALL SITE PLAN	1
A-2	ENLARGED SITE PLAN & EQUIPMENT PLANS	1
A-3	EXISTING & PROPOSED ANTENNA PLANS	1
A3.1	PROPOSED RF SCHEDULE	1
A-4	NORTH ELEVATIONS	1
A-5	EAST ELEVATIONS	1
D-1	DETAILS	1
D-2	DETAILS	1
RF-1	PLUMBING DIAGRAM	1
EME-1	EME SIGNAGE LOCATION PLAN	1
G-1	GROUNDING PLANS & NOTES	1
G-2	GROUNDING DETAILS	1

DRAWN BY: JY
CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

Licensor:

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

Issued For:

CCL05203
BAY MEADOWS
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

TITLE SHEET

Sheet Number:

T-1

GENERAL CONSTRUCTION NOTES:

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

APPLICABLE CODES, REGULATIONS AND STANDARDS:

1. SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
2. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
3. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

3.1. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
3.2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
3.3. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
3.4. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
3.5. IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
3.6. TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
3.7. EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
3.8. TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
3.9. TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
3.10. TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
3.11. ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
3.12. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS:

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

SYMBOLS LEGEND:

BLDG. SECTION
WALL SECTION
DETAIL
ELEVATION
DOOR SYMBOL
WINDOW SYMBOL
TILT-UP PANEL MARK
PROPERTY LINE
CENTERLINE
ELEVATION DATUM
GRID/COLUMN LINE
KEYNOTE, DIMENSION ITEM
KEYNOTE, CONSTRUCTION ITEM
WALL TYPE MARK
OFFICE 101 — ROOM NAME, ROOM NUMBER

GROUT OR PLASTER
(E) BRICK
(E) MASONRY
CONCRETE
EARTH
GRAVEL
PLYWOOD
SAND
PLYWOOD
SAND
(E) STEEL
MATCH LINE
GROUND CONDUCTOR
OH — OVERHEAD SERVICE CONDUCTORS
TEL — TELEPHONE CONDUIT
PWR — POWER CONDUIT
COAX — COAXIAL CABLE
CHAIN LINK FENCE
WOOD FENCE
(P) ANTENNA
(P) RRU
(P) DC SURGE SUPPRESSION
(P) ANTENNA
(P) RRU
(E) EQUIPMENT

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:

15 INFRASTRUCTURE

1150 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

DRAWN BY: JY

CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

Licensor:

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

Issued For:

CCL05203

BAY MEADOWS

2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

GENERAL NOTES

Sheet Number:

GN-1

AT&T

This Site Operated by:

AT&T MOBILITY

2600 CAMINO RAMON, 4W750FF
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#: CCL05203

Site Address: 2495 S. DELAWARE STREET SAN MATEO, CA 94403

10 FENCED COMPOUND SIGNAGE
N.T.S.

DANGER

NO TRESPASSING

9 FENCED COMPOUND SIGNAGE
N.T.S.

INFORMATION

Federal Communications Commission
Tower Registration Number

1 2 3 4 5 6 7

Posted in accordance with federal Communications Commission rules and antenna tower registration 47C.F.R 17.4(g).

8" × 12"

6 FCC ASR SIGNAGE
N.T.S.

NOTICE

AUTHORIZED PERSONNEL ONLY

8 DOOR / EQUIPMENT SIGN
N.T.S.

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 _____

5 GATE SIGNAGE
N.T.S.

0
3 2
ACID

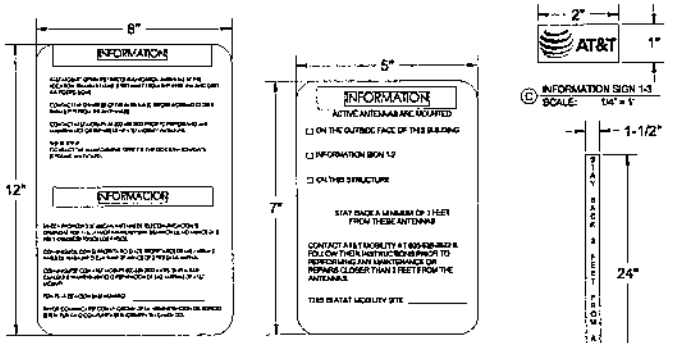
7 NFPA HAZARD SIGN
N.T.S.

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 _____

4 SHELTER / CABINET DOORS SIGNAGE
N.T.S.



A INFORMATION SIGN 1-1
SCALE: 1/2" = 1'

B INFORMATION SIGN 1-2
SCALE: 3/4" = 1'

C INFORMATION SIGN 1-3
SCALE: 1/4" = 1'

D INFORMATION SIGN 1-4
SCALE: 5/16" = 1'

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 1-1 IS TO BE MADE ON THE 50 MIL ALUVINUM SHEETING (SIZE 8 INCHES BY 12 INCHES) w/ FOUR (4) ¼ INCH MOUNTING HOLES. ONE EACH CORNER OF THE SIGN FOR MOUNTING w/ HARDWARE w/ TIE WRAPS. THE MAIN BACKGROUND COLOR IS TO 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 TEXT SHALL BE IN BLACK LETTERING w/ 0.2 INCH HIGH LETTERS. THE REF LINE SHALL BE IN ⅛ 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 BAKED 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 50 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/ ¾ 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/ ¼ INCH LETTERING IN A VERTICAL COLUMN. THE SPACING BETWEEN WORDS MUST BE SUCH THAT IT IS EASILY READ & FILLS THE LENGTH OF THE SIGN.

3 INFORMATION SIGNAGE
N.T.S.

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

WARNING

Beyond This Point you are entering a controlled area where RF Emissions exceed the FCC Controlled Exposure limits
Failure to obey all posted signs and site guidelines could result in serious injury

CAUTION

Beyond This Point you are entering a controlled area where RF Emissions *may exceed* the FCC Controlled Exposure limits
Obey all posted signs and site guidelines for working in an RF environment

NOTICE

Beyond This Point you are entering an area where RF Emissions *may exceed* the FCC General Population Exposure Limits
Follow all posted signs and site guidelines for working in an RF environment

2 WARNING, CAUTION AND NOTICE SIGN
N.T.S.

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 1mW/cm^2 AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mW/cm^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 ACCESSABLE (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 Z535.2 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 SHOP DRAWING OF EACH BARRICADE, UPON CONSTRUCTION COMPLETION.

1 GENERAL NOTES
N.T.S.

PREPARED FOR

AT&T

9001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:

15 INFRASTRUCTURE

1130 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

DRAWN BY: JY

CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

License:

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

Issued for:

CCL05203

BAY MEADOWS
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet title:

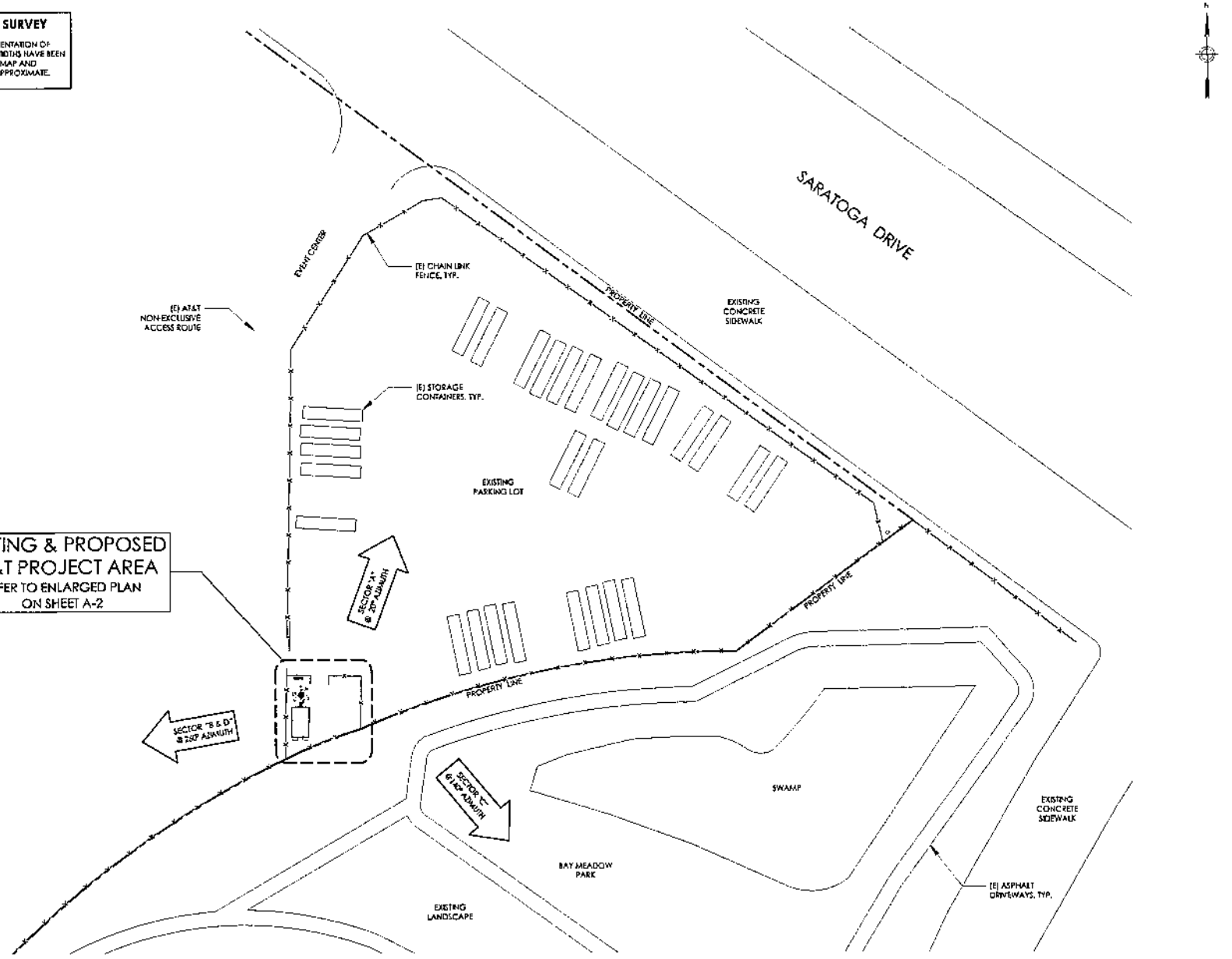
SITE SIGNAGE

Sheet Number:

GN-2

THIS IS NOT A SITE SURVEY

ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.



24"X36" SCALE: 1" = 30'-0"
11"X17" SCALE: 1" = 60'-0"

30 15 0 30'

1 OVERALL SITE PLAN

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:

J5 INFRASTRUCTURE

3150 BAYSHORE BLVD, UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

DRAWN BY: JY

CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

Licensor:

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

Issued For:

CCL05203

BAY MEADOWS

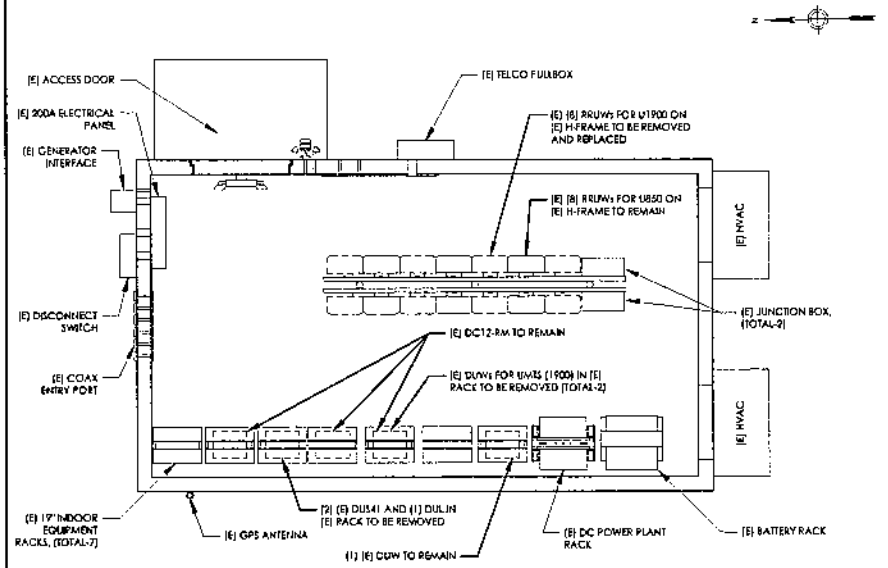
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

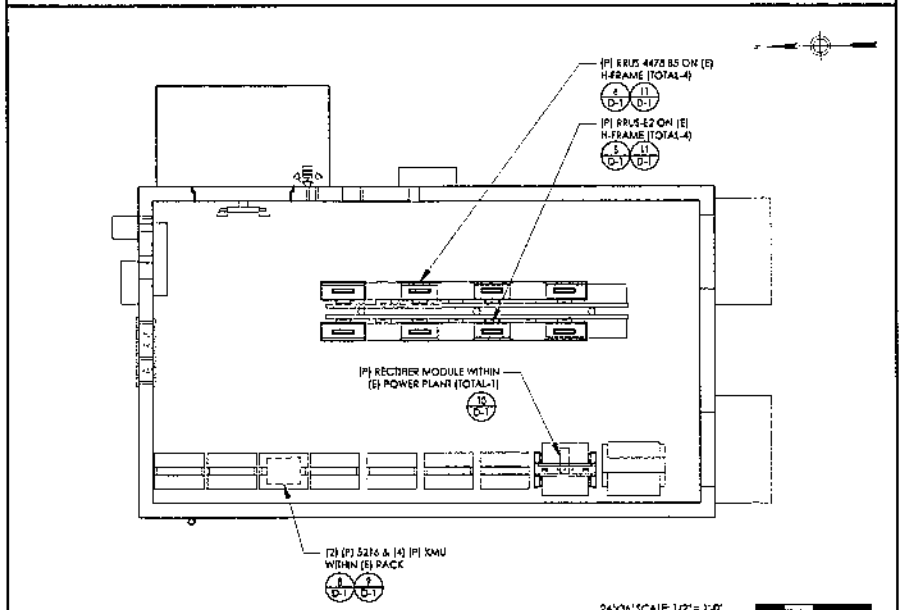
OVERALL SITE PLAN

Sheet Number:

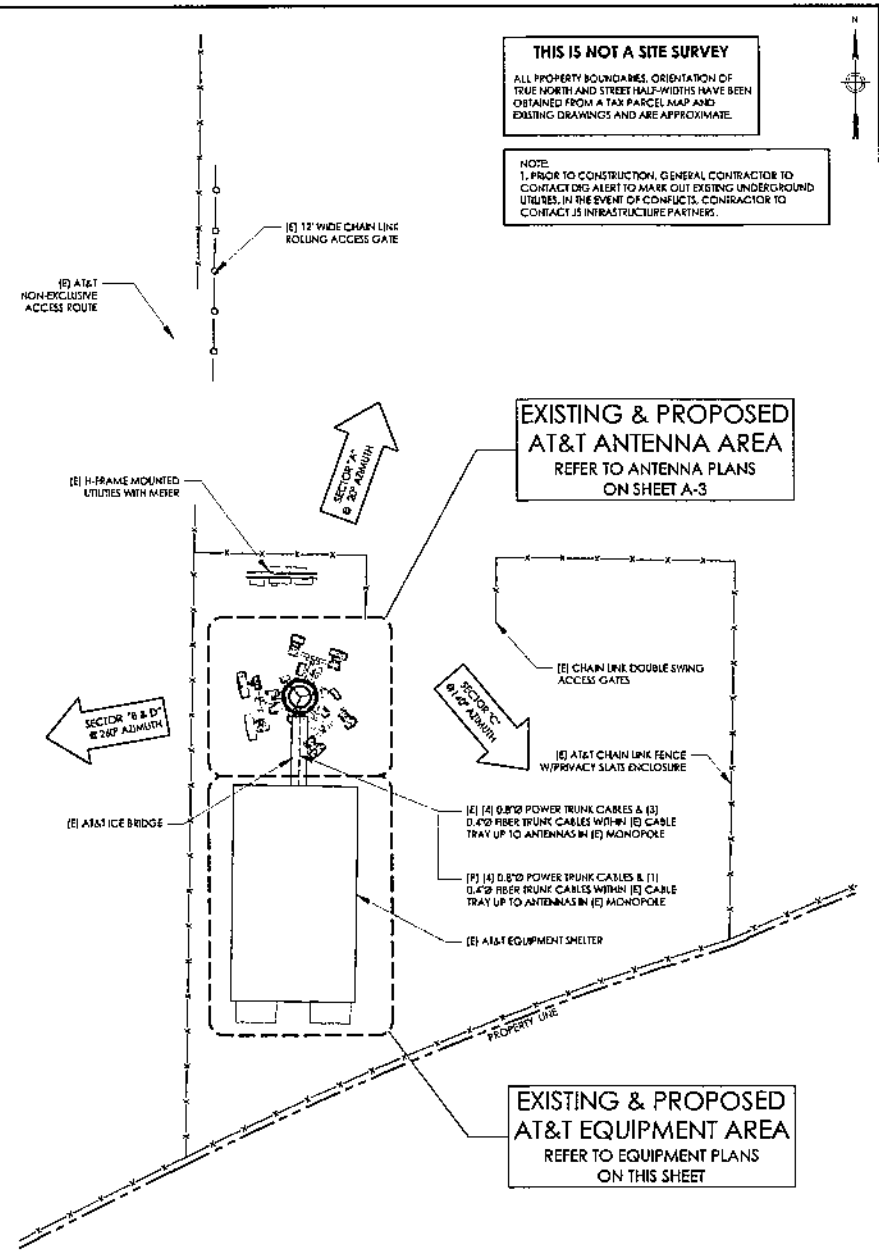
A-1



2 EXISTING EQUIPMENT PLAN



3 PROPOSED EQUIPMENT PLAN



1 ENLARGED SITE PLAN

THIS IS NOT A SITE SURVEY

ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.

NOTE:
1. PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR TO CONTACT DIG ALERT TO MARK OUT EXISTING UNDERGROUND UTILITIES. IN THE EVENT OF CONFLICTS, CONTRACTOR TO CONTACT J5 INFRASTRUCTURE PARTNERS.

EXISTING & PROPOSED AT&T ANTENNA AREA
REFER TO ANTENNA PLANS ON SHEET A-3

EXISTING & PROPOSED AT&T EQUIPMENT AREA
REFER TO EQUIPMENT PLANS ON THIS SHEET

PREPARED FOR
AT&T
5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:
J5 INFRASTRUCTURE
1150 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:
CCL05203

DRAWN BY: JY
CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

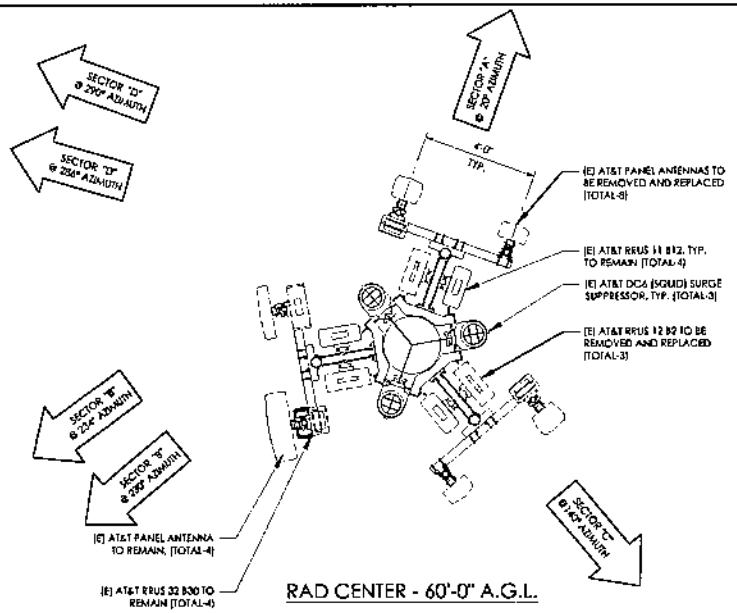
License:

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.

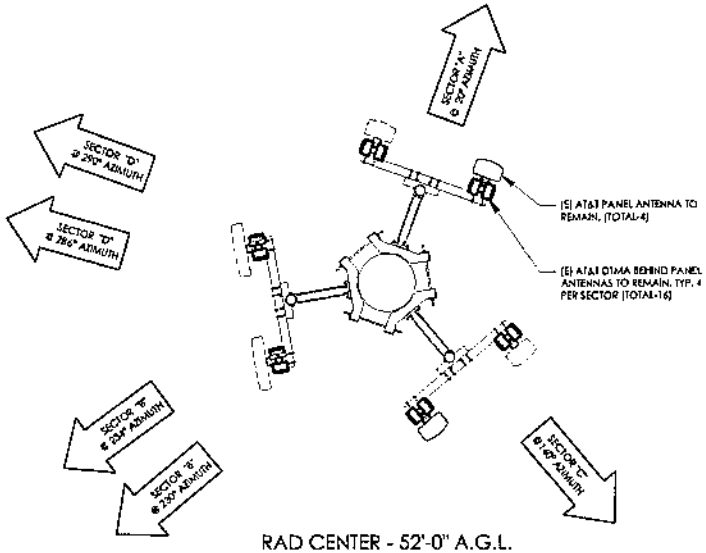
Issued For:
CCL05203
BAY MEADOWS
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:
ENLARGED SITE PLAN & EQUIPMENT PLANS

Sheet Number:
A-2



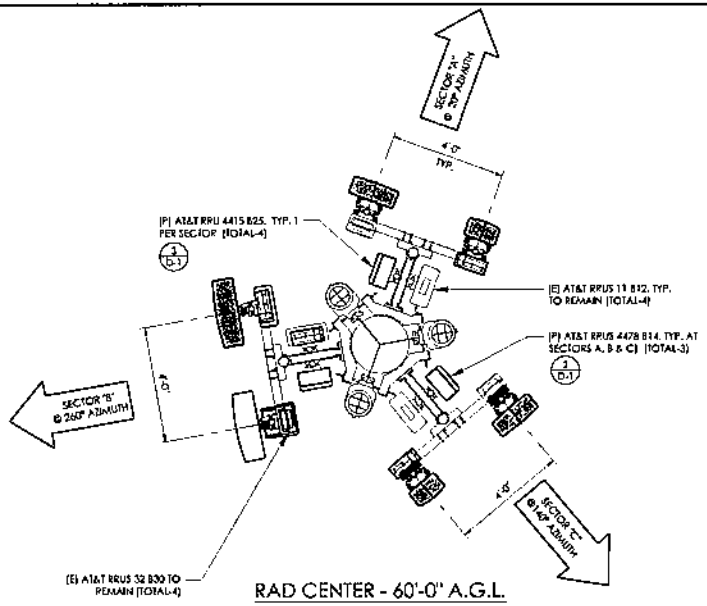
RAD CENTER - 60'-0" A.G.L.



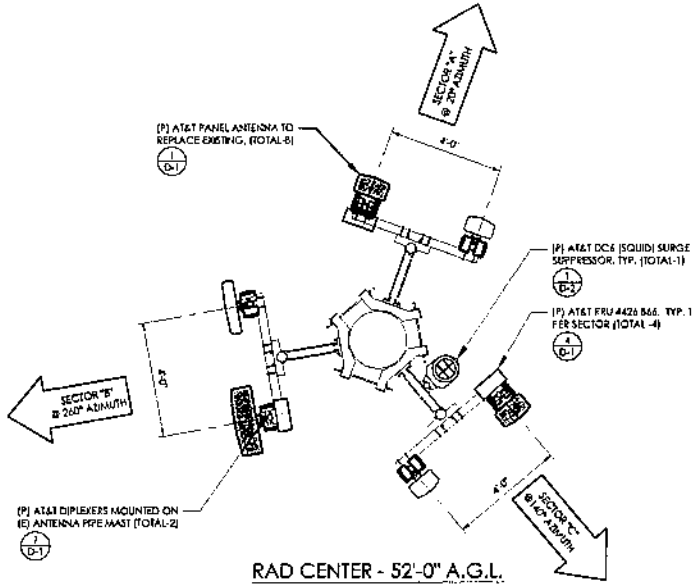
RAD CENTER - 52'-0" A.G.L.

1 EXISTING ANTENNA PLAN

24"X36" SCALE: 1/2" = 1'-0"
11"X17" SCALE: 1/4" = 1'-0"



RAD CENTER - 60'-0" A.G.L.



RAD CENTER - 52'-0" A.G.L.

2 PROPOSED ANTENNA PLAN

24"X36" SCALE: 1/2" = 1'-0"
11"X17" SCALE: 1/4" = 1'-0"

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE

1130 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

DRAWN BY: JY

CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

Licensor:

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

Issued For:

CCL05203

BAY MEADOWS

2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

EXISTING & PROPOSED ANTENNA PLANS

Sheet Number:

A-3

NOTE:
(E) ANTENNA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.

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

Position	Antenna					RRU		Additional Antenna Information						Line Information			
	Use	Type		Technology		Existing		Proposed		Azimuth		RAD Center		Coax		Power/F	
	Swap/New	Existing	Proposed	Existing	Proposed	RRU Type	RRU Location	RRU Type	RRU Location	Existing	Proposed	Existing	Proposed	Existing	Propose	Existing	Propose
ALPHA		SBNH-1D6565A	1/2"		1												
1	Swap	ANDREW SBNH-1D6565B	COMMSCOPE JAHH-65B-R3B-V3	LTE 700 BC LTE 1900 LTE 850	LTE 700 BC LTE 850 LTE 1900	RRUS 11 B12 RRUS 12 B2	TOP TOP	RRUS 11 B12 RRUS 4415 B25 RRUS 4478 B5	TOP TOP BOTTOM	20	20	60'-3"	60'-3"	(8) 7/8" COAX	(8) 7/8" COAX	(4) 0.8" dia power trunk cables + (3) 0.4" dia fiber trunk cables	(8) 0.8" dia power trunk cables + (4) 0.4" dia fiber trunk cables
2	Swap	QUINTEL QS6656-3	COMMSCOPE NNHH-65B-R4	LTE WCS	LTE WCS LTE FNET	RRUS 32 B30	TOP	RRUS 32 B30 RRUS 4478 B14	TOP TOP	20	20	60'-3"	60'-3"				
3	Use Existing	ANDREW SBNH-1D6565B	ANDREW SBNH-1D6565B	UMTS 850	UMTS 850	RRUW (U850) RRUW (U1900)	BOTTOM BOTTOM	RRUW (U850) RRUW (U850)	BOTTOM BOTTOM	20	20	52	52				
4	Swap	ANDREW SBNH-1D6565B	COMMSCOPE JAHH-65B-R3B-V3	UMTS 850	LTE 700 DE LTE AWS	RRUW (U850) RRUW (U1900)	BOTTOM BOTTOM	RRUS E2 RRUS 4426 B66	BOTTOM TOP	20	20	52	52				
BETA / DELTA																	
1	Swap	ARGUS 2UNPX203.6R2	CCI BSA-M65R-BUU-H6-K	LTE 700 BC LTE 1900 LTE 700 BC LTE 1900	LTE 700 BC [BETA] LTE 1900 [BETA] LTE 700 BC [DELTA] LTE 1900 [DELTA]	RRUS 11 B12 RRUS 12 B2 RRUS 11 B12 RRUS 12 B2	TOP TOP TOP TOP	RRUS 11 B12 [BETA] RRUS 4415 B25 [BETA] RRUS 11 B12 [DELTA] RRUS 4415 B25 [DELTA]	TOP TOP TOP TOP	BETA = 230 DELTA = 290	260	60'-7"	60'-7"	(16) 7/8" COAX	(16) 7/8" COAX		
2	Use Existing	CCI BSA-M65R-BUU-H6-K	CCI BSA-M65R-BUU-H6-K	LTE WCS LTE WCS	LTE WCS [BETA] LTE WCS [DELTA] LTE FNET [BETA] LTE FNET [DELTA]	RRUS 32 B30 RRUS 32 B30	TOP TOP	RRUS 32 B30 [BETA] RRUS 32 B30 [DELTA] RRUS 4478 B14 [BETA/DELTA]	TOP TOP TOP	BETA = 234 DELTA = 286	260	60'-7"	60'-7"				
3	Use Existing	ARGUS 2UNPX203.6R2	ARGUS 2UNPX203.6R2	UMTS 850 UMTS 850	UMTS 850 [BETA] UMTS 850 [DELTA]	RRUW (U850) RRUW (U1900) RRUW (U850) RRUW (U1900)	BOTTOM BOTTOM BOTTOM BOTTOM	RRUW (U850 #1) [BETA] RRUW (U850 #2) [BETA] RRUW (U850 #1) [DELTA] RRUW (U850 #2) [DELTA]	BOTTOM BOTTOM BOTTOM BOTTOM	BETA = 230 DELTA = 290	260	52	52				
4	Swap	ARGUS 2UNPX203.6R2	CCI BSA-M65R-BUU-H6-K	UMTS 850 UMTS 850	LTE 700 DE [BETA] LTE 700 DE [DELTA] LTE 850 [BETA] LTE 850 [DELTA] LTE AWS [BETA] LTE AWS [DELTA]	RRUW (U850) RRUW (U1900) RRUW (U850) RRUW (U1900)	BOTTOM BOTTOM BOTTOM BOTTOM	RRUS-E2 [BETA] RRUS-E2 [DELTA] RRUS 4478 B5 [BETA] RRUS 4478 B5 [DELTA] RRUS 4426 B66 [BETA] RRUS 4426 B66 [DELTA]	BOTTOM BOTTOM BOTTOM BOTTOM TOP TOP	BETA = 230 DELTA = 290	260	52	52				
GAMMA																	
1	Swap	ANDREW SBNH-1D6565B	COMMSCOPE JAHH-65B-R3B-V3	LTE 700 BC LTE 1900 LTE 850	LTE 700 BC LTE 850 LTE 1900	RRUS 11 B12 RRUS 12 B2	TOP TOP	RRUS 11 B12 RRUS 4415 B25 RRUS 4478 B5	TOP TOP BOTTOM	140	140	60'-4"	60'-4"	(8) 7/8" COAX	(8) 7/8" COAX		
2	Swap	QUINTEL QS6656-3	COMMSCOPE NNHH-65B-R4	LTE WCS	LTE WCS LTE FNET	RRUS 32 B30	TOP	RRUS 32 B30 RRUS 4478 B14	TOP TOP	140	140	60'-4"	60'-4"				
3	Use Existing	ANDREW SBNH-1D6565B	ANDREW SBNH-1D6565B	UMTS 850	UMTS 850	RRUW (U850) RRUW (U1900)	BOTTOM BOTTOM	RRUW (U850) RRUW (U850)	BOTTOM BOTTOM	140	140	52	52				
4	Swap	ANDREW SBNH-1D6565B	COMMSCOPE JAHH-65B-R3B-V3	UMTS 850	LTE 700 DE LTE AWS	RRUW (U850) RRUW (U1900)	BOTTOM BOTTOM	RRUS-E2 RRUS 4426 B66	BOTTOM TOP	140	140	52	52				

1 PROPOSED RF SCHEDULE
N.T.S.

PREPARED FOR
AT&T
5001 EXECUTIVE PKWY.
SAN RAMON, CA 94583

Vendor:
JS INFRASTRUCTURE
1750 SALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:
CCL05203

DRAWN BY: JY
CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

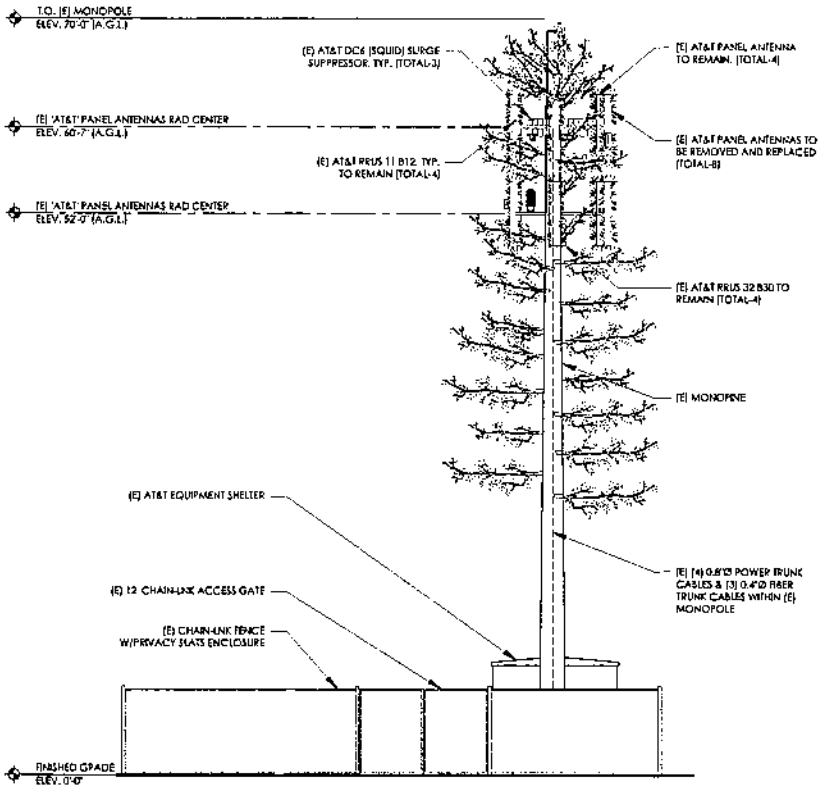
License:
B3803

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

Issued For:
CCL05203
BAY MEADOWS
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:
PROPOSED RF SCHEDULE

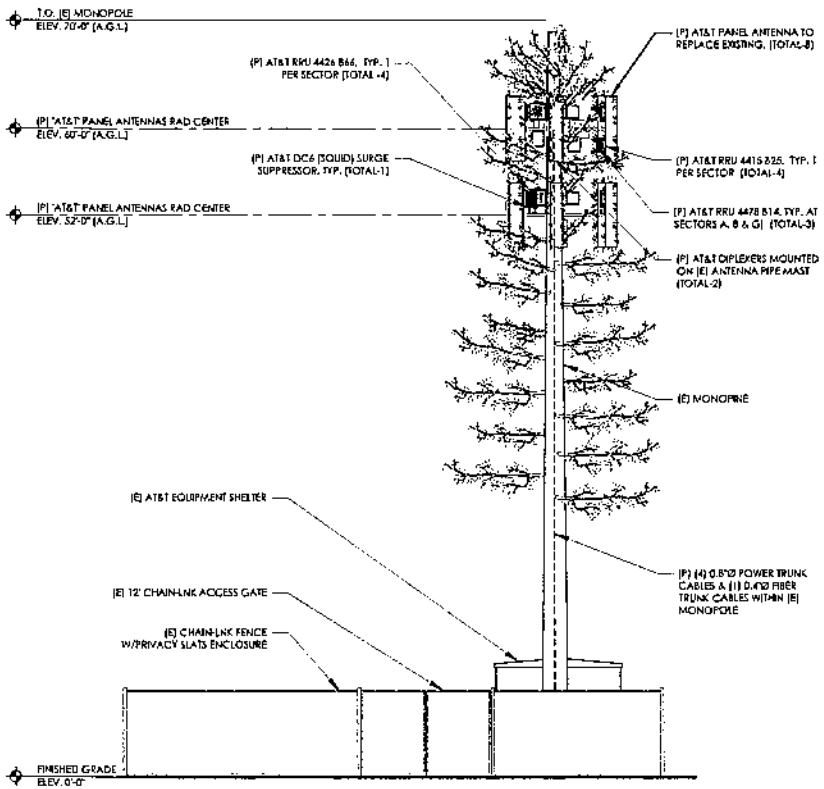
Sheet Number:
A-3.1



1 EXISTING NORTH ELEVATION

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

NOTE:
1. ALL (P) ANTENNAS AND EQUIPMENT MOUNTED TO THE (E) POLE SHALL BE PAINTED TO MATCH (E).
2. ALL (P) ANTENNAS SHALL BE COVERED WITH RF PINE SOCK TO MATCH (E).



2 PROPOSED NORTH ELEVATION

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

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE
CA · CO · ID · NV · AZ · TX · UT

1150 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

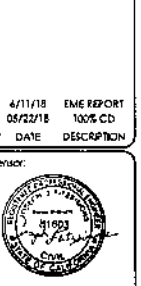
CCL05203

DRAWN BY: JY

CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

Licensor:



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.

Issued For:

CCL05203

BAY MEADOWS

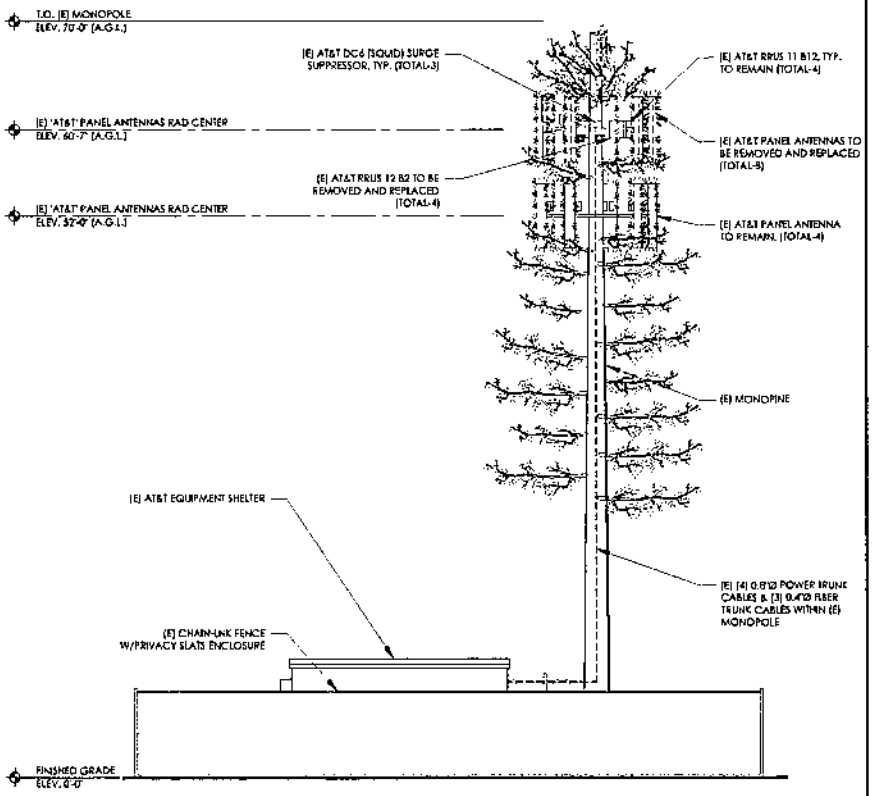
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

NORTH ELEVATIONS

Sheet Number:

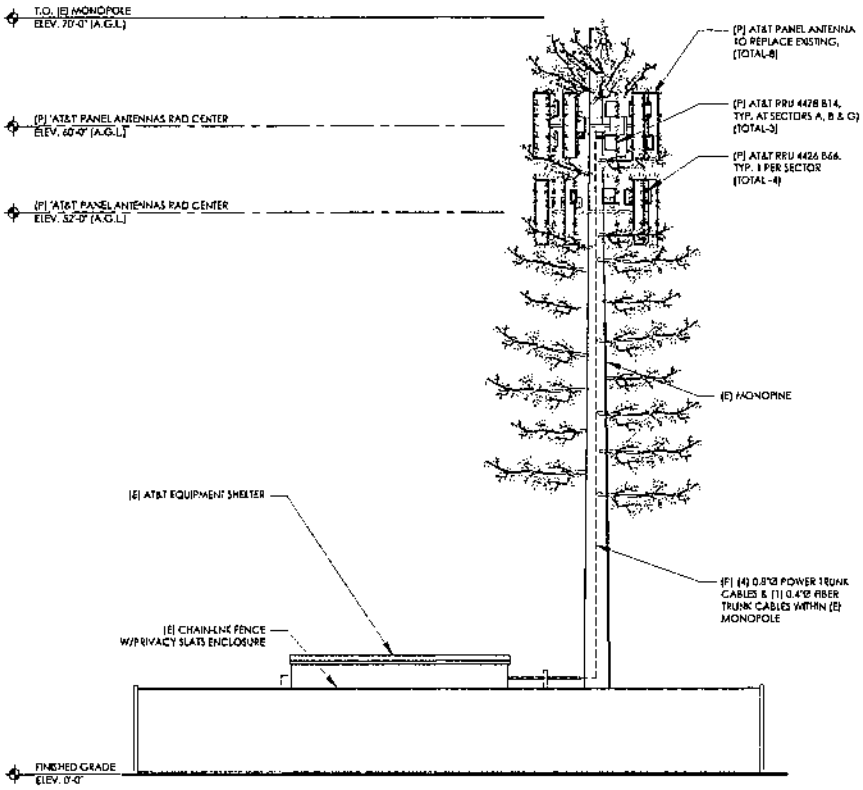
A-4



1 EXISTING EAST ELEVATION

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

NOTE
1. ALL (P) ANTENNAS AND EQUIPMENT MOUNTED TO THE (E) POLE SHALL BE PAINTED TO MATCH (E).
2. ALL (P) ANTENNAS SHALL BE COVERED WITH RF PINE SOCK TO MATCH (E).



1 PROPOSED EAST ELEVATION

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

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:

15 INFRASTRUCTURE
AZ · CA · CO · ID · NV · OR · TX · UT

1130 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

DRAWN BY: JY

CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

Licensor:

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

Issued For:

CCL05203

BAY MEADOWS

2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

EAST ELEVATIONS

Sheet Number:

A-5

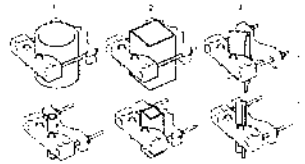


Figure 5 Alternative Pole or Mast Cross Sections

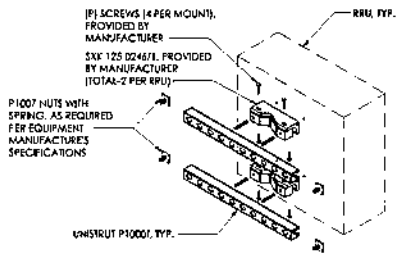
The supported pole diameters are listed in Table 2

Table 2 Pole or Mast Dimensions

Cross Section	Minimum dimension (mm)	Maximum dimension (mm)
1 Circular	125	270
2 Square	49x49	82x82
3 HP	Dim20	55x55

[1] The choice of installation the minimum pole diameter is 114 mm

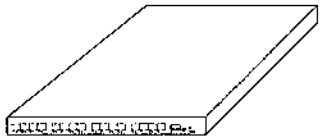
[2] The choice of installation the minimum pole diameter is 49x49 mm



11 RRU MOUNTING DETAIL
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

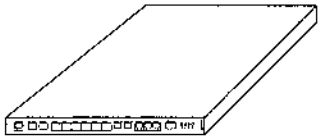
EQUIPMENT SPECIFICATIONS
MFG: ERICSSON
MODEL: R503 XMU
HEIGHT: 1.22 IN
WIDTH: 13.80 IN
DEPTH: 11.00 IN
WEIGHT: 6.90 LBS



9 XMU SPECIFICATIONS
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

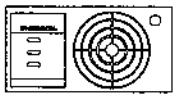
EQUIPMENT SPECIFICATIONS
MFG: ERICSSON
MODEL: BASEBAND 5216
HEIGHT: 1.22 IN
LENGTH: 13.80 IN
WIDTH: 11.02 IN
WEIGHT: 8.82 LBS



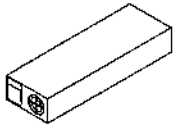
8 5216 SPECIFICATIONS
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

EQUIPMENT SPECIFICATIONS
MFG: EMERSON
MODEL: R48-2000E3
HEIGHT: 1.70 IN
WIDTH: 3.30 IN
DEPTH: 9.90 IN
WEIGHT: 2.49 LBS



FRONT VIEW

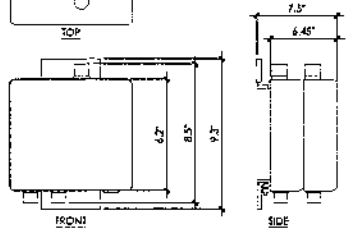


ISOMETRIC VIEW

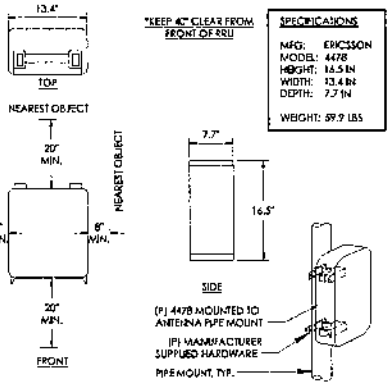
10 RECTIFIER MODULE
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

SPECIFICATIONS
MFG: KAELUS
MODEL: DBC0061F1V51-2
HEIGHT: 6.2 IN
WIDTH: 8.0 IN
DEPTH: 6.45 IN
WEIGHT: 25.5 LBS

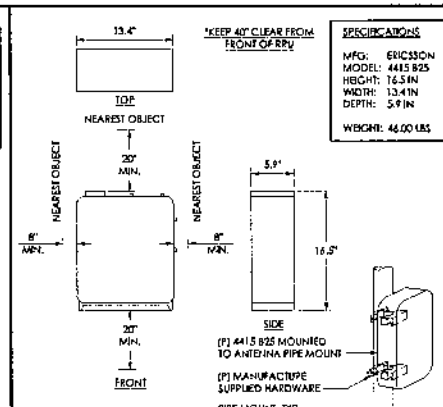


7 DIPLEXER SPECIFICATIONS
N.T.S.



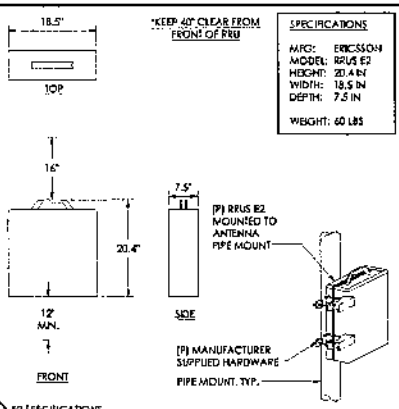
SPECIFICATIONS
MFG: ERICSSON
MODEL: 4478
HEIGHT: 16.5 IN
WIDTH: 13.4 IN
DEPTH: 7.7 IN
WEIGHT: 59.9 LBS

6 4478 B5 SPECIFICATIONS
N.T.S.



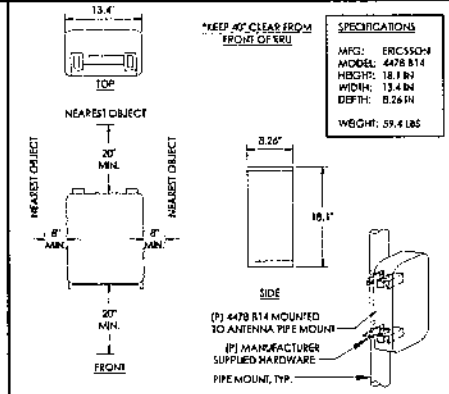
SPECIFICATIONS
MFG: ERICSSON
MODEL: 4415 B25
HEIGHT: 16.5 IN
WIDTH: 13.4 IN
DEPTH: 5.9 IN
WEIGHT: 46.00 LBS

3 4415 B25 SPECIFICATIONS
N.T.S.



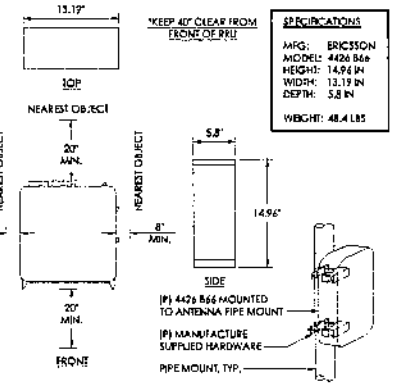
SPECIFICATIONS
MFG: ERICSSON
MODEL: RRUS B2
HEIGHT: 20.4 IN
WIDTH: 18.5 IN
DEPTH: 7.5 IN
WEIGHT: 60 LBS

5 B2 SPECIFICATIONS
N.T.S.



SPECIFICATIONS
MFG: ERICSSON
MODEL: 4478 B14
HEIGHT: 18.1 IN
WIDTH: 13.4 IN
DEPTH: 8.26 IN
WEIGHT: 59.4 LBS

2 4478 B14 SPECIFICATIONS
N.T.S.



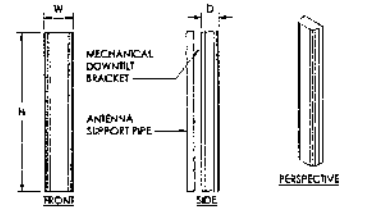
SPECIFICATIONS
MFG: ERICSSON
MODEL: 4426 B66
HEIGHT: 14.96 IN
WIDTH: 13.19 IN
DEPTH: 5.8 IN
WEIGHT: 48.4 LBS

4 4426 B66 SPECIFICATIONS
N.T.S.

SPECIFICATIONS
MFG / MODEL / PORT: COMMSCOPE / JAHH-65B-R3B / OCTO
DIMENSIONS: 72" H X 13.8" W X 8.2" D
WEIGHT: 63.3 LBS (W/O MOUNTING KIT)

MFG / MODEL / PORT: COMMSCOPE / NNHH-65B-R4 / OCTO
DIMENSIONS: 72" H X 19.6" W X 7.8" D
WEIGHT: 77.4 LBS (W/O MOUNTING KIT)

SPECIFICATIONS:
MFG / MODEL / PORT: CCI / BSA-MASR-8UU-H6 / 12-PORT
DIMENSIONS: 72" H X 28.5" W X 9.6" D
WEIGHT: 86 LBS (W/O MOUNTING KIT)



1 ANTENNA SPECIFICATION
N.T.S.

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE

1150 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

DRAWN BY: JY

CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/13/18	EME REPORT
0	05/22/18	100% CD

Licensor:

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

Issued For:

CCL05203

BAY MEADOWS
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

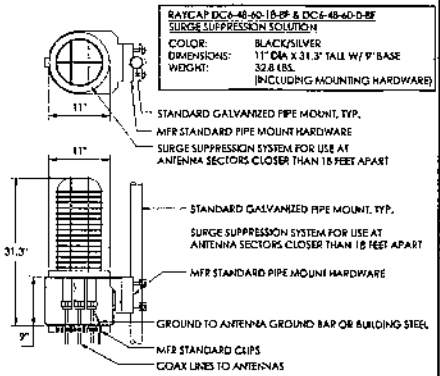
DETAILS

Sheet Number:

D-1

RAYCAP DC6-48-60-18-8F & DC6-48-60-0-8F
SURGE SUPPRESSION SOLUTION

COLOR:	BLACK/SILVER
DIMENSIONS:	11" DIA X 31.3" TALL W/ 9" BASE
WEIGHT:	32.8 LBS. (INCLUDING MOUNTING HARDWARE)



1 DC-6 POWER CONNECTION
N.T.S.

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:

J5 INFRASTRUCTURE PARTNERS

1150 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

DRAWN BY: JT
CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

Licensor:

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.

Issued For:

CCL05203
BAY MEADOWS
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

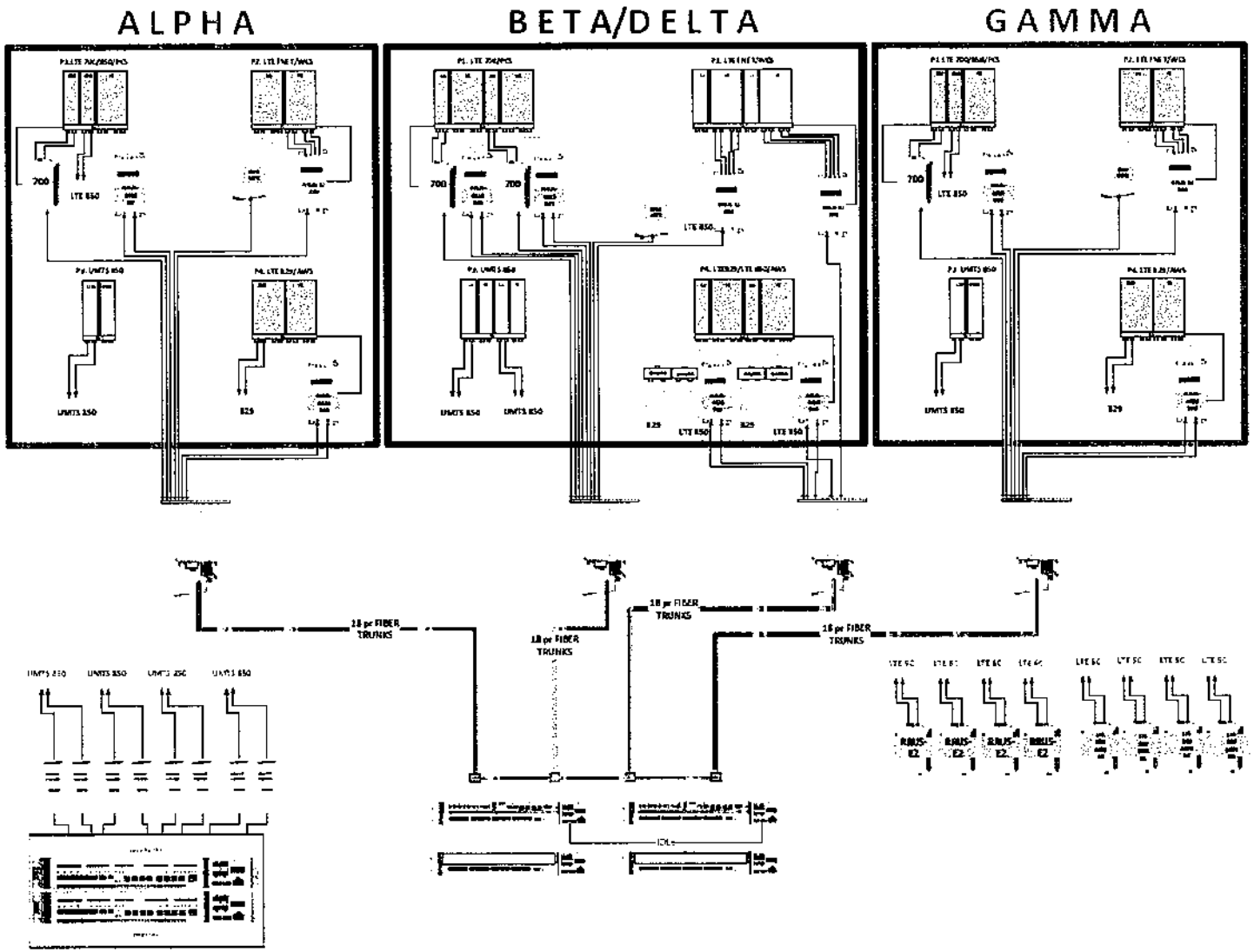
Sheet Title:

DETAILS

Sheet Number:

D-2

NOTES TO CONTRACTOR:
1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.



1 PLUMBING DIAGRAM
N.T.S.

PREPARED FOR
AT&T
5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:
J5 INFRASTRUCTURE
1150 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:
CCL05203

DRAWN BY: JY
CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

Licensor:
51603
OWN

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.

Issued For:
CCL05203
BAY MEADOWS
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:
PLUMBING DIAGRAM

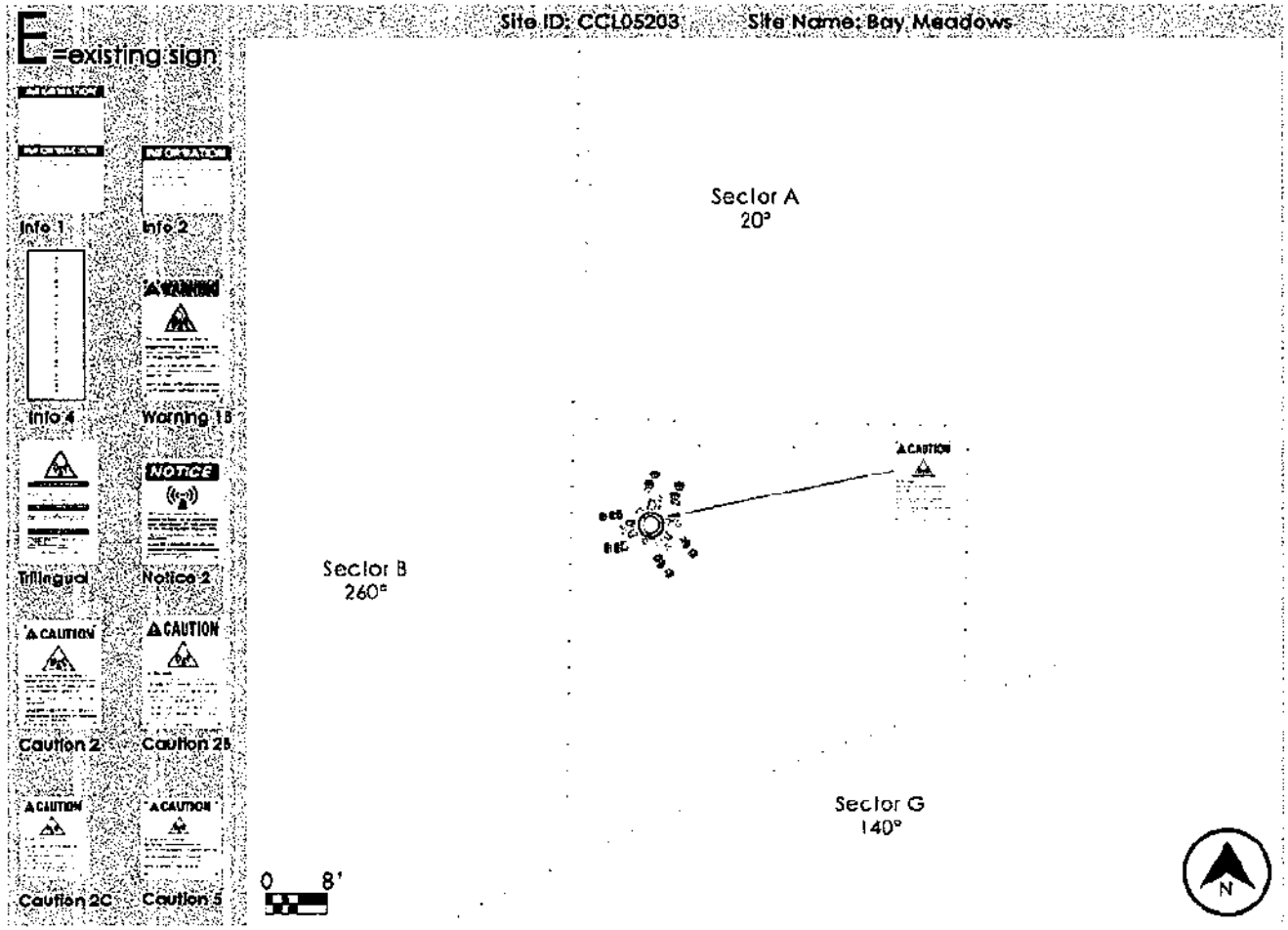
Sheet Number:
RF-1

RECOMMENDATIONS:

- ACCESS POINT
  CAUTION SIGN 2B (TOWER) AT BASE OF MONOPOLE (TO BE POSTED)
- AT&T SECTOR A
  NO SIGNAGE OR BARRIER ACTION REQUIRED
- AT&T SECTOR B
  NO SIGNAGE OR BARRIER ACTION REQUIRED
- AT&T SECTOR C
  NO SIGNAGE OR BARRIER ACTION REQUIRED

NOTE:

1. RF SAFETY MEASURES COMPLETED PER EME REPORT COMPLETED ON 06/01/2018, BY "OSC ENGINEERING INC."
2. ANY OTHER RF REPORT IS FOR REFERENCE ONLY.



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

1 EME SIGNAGE LOCATION PLAN

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

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:

15 INFRASTRUCTURE

1150 BALLENA BLVD. UNIT 239
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

DRAWN BY: JY

CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

Licensor:

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

Issued For:

CCL05203

BAY MEADOWS

2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

EME SIGNAGE LOCATION PLAN

Sheet Number:

EME-1

GROUNDING NOTES:

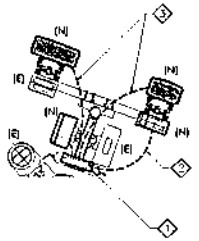
1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE. ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD (MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
8. GROUND BARS:
   A) EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNER) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
12. IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
13. GROUNDING AT FPC CABINET SHALL BE VERTICALLY INSTALLED.
14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
15. ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING. NO PVC ABOVE GROUND.
16. USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR, NO "DOUBLE-UP" OF LUGS.
17. POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
18. NO TB'S ALLOWED ON GROUNDING.
19. PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.
20. ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.
21. IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED
    TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE
    INSTALLED IN THE AC POWER CONDUIT, THE INSTALLATION SHALL BE
    PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
22. EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE
    MADE USING COMPRESSION TYPE-2 HOLES, LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE
    COATED WITH ANTIOXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS
    ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
23. THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
24. ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.
25. PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.
26. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
27. GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
28. ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

4 GROUNDING NOTES
N.T.S.

KEY NOTES:

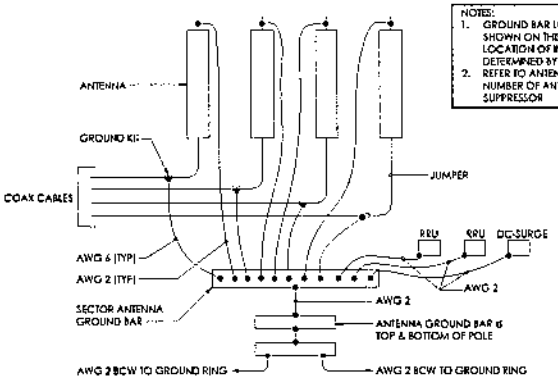
1. (E) ANTENNA GROUND BAR TO BE VERIFIED & FIELD
2. AWG 2 INSULATED COPPER GROUND WIRE FROM (N) RRUS & (N) ANTENNAS TO (E) ANTENNA GROUND BAR
3. AWG 6 INSULATED COPPER GROUND WIRE FROM GROUND KIT TO (E) ANTENNA GROUND BAR

NOTES:
1. REFER TO TYP. ANTENNA GROUNDING DIAGRAM
2. (E) GROUND WIRES ARE NOT SHOWN FOR CLARITY



3 ANTENNA GROUNDING PLAN (TYP. PER SECTOR)

NOTES:
1. GROUND BAR LOCATION IS SCHEMATIC AS SHOWN ON THIS SHEET AND ACTUAL LOCATION OF INSTALLATION WILL BE DETERMINED BY THE INSTALLER.
2. REFER TO ANTENNA PLAN FOR EXACT NUMBER OF ANTENNA, RRU AND DC SURGE SUPPRESSOR

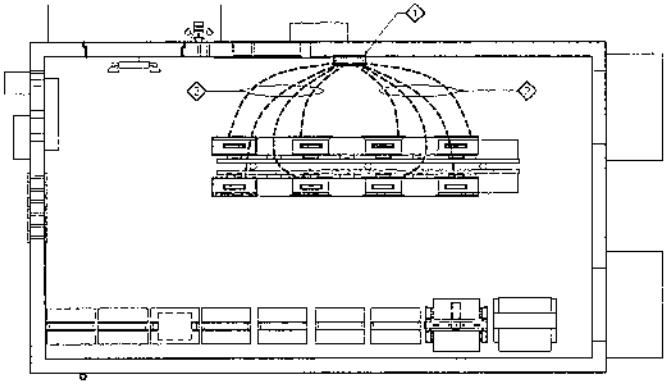


2 TYP. ANTENNA GROUNDING DIAGRAM
N.T.S.

KEY NOTES:

1. (E) EQUIPMENT GROUND BAR TO BE VERIFIED & FIELD
2. AWG 2 INSULATED COPPER TO (E) EQUIPMENT GROUND BAR

NOTE:
1. (E) GROUND WIRES ARE NOT SHOWN FOR CLARITY.



1 NOT USED
N.T.S.

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE

1150 SALLENA AVE, UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

DRAWN BY: JY

CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/11/18	EME REPORT
0	05/22/18	100% CD

License:

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

Issued For:

CCL05203

BAY MEADOWS

2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

GROUNDING PLANS & NOTES

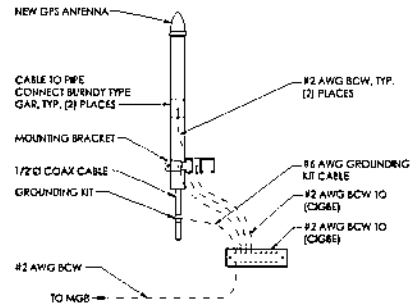
Sheet Number:

G-1

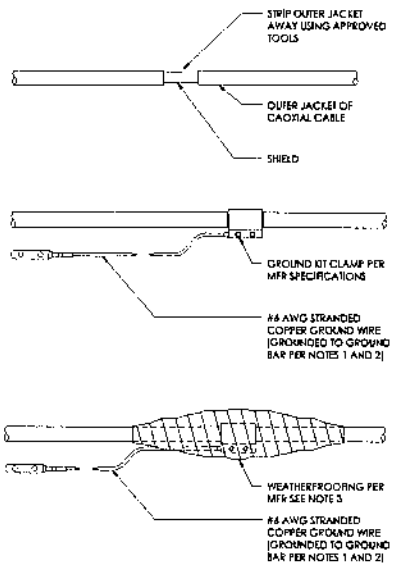
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MFR
3. WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY THE CABLE MFR

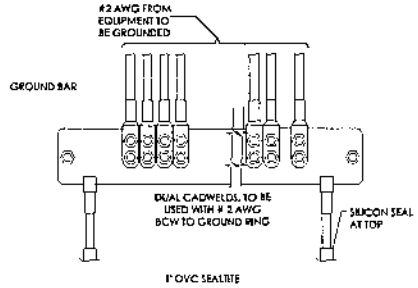
10 NOT USED
N.T.S.



9 GPS ANTENNA GROUNDING
N.T.S.



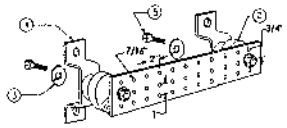
7 GROUND KIT
N.T.S.



NOTE:
1. CONTRACTOR TO UTILIZE COPR-SHIELD (THANS & BETTS) ON ALL LUG CONNECTIONS OR APPROVED EQUAL
2. ALL LUGS TO BE DUAL HOLE LONG BARREL AND CRIMPED TWICE WITH MFR'S RECOMMENDED TOOL

5 GROUND BAR CONNECTION
N.T.S.

3 NOT USED
N.T.S.



LEGEND

1- COPPER GROUND BAR, "X 1/4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)

2- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL

3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL

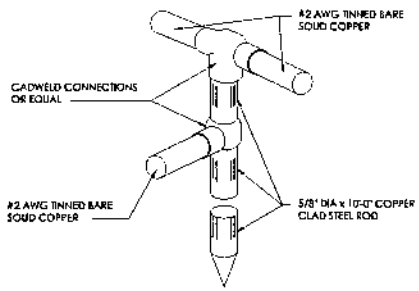
4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL

5- 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-4 OR EQUAL

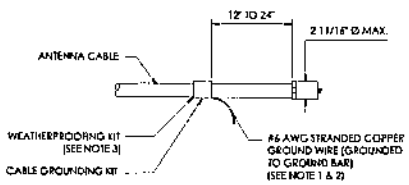
6- INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL

4 GROUND BAR DETAIL
N.T.S.



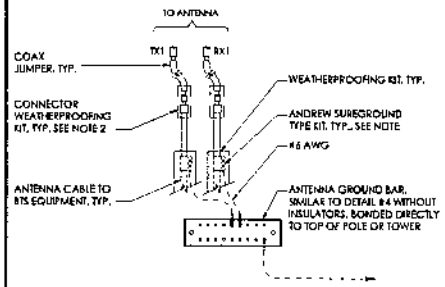
2 GROUND ROD DETAIL
N.T.S.



NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

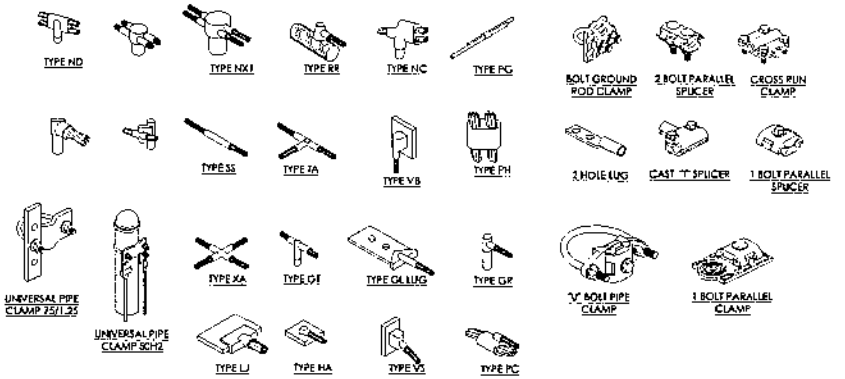
8 CONNECTION OF GROUND KIT TO ANTENNA CABLE
N.T.S.



NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE ANDREW TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED

6 GROUND CONNECTION TO GROUND BAR
N.T.S.



1 TYPICAL MECHANICAL CONNECTIONS
N.T.S.

PREPARED FOR

AT&T

5001 EXECUTIVE PKWY.
SAN RAMON CA 94583

Vendor:

JS INFRASTRUCTURE

1150 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

DRAWN BY: JY
CHECKED BY: JO

REV	DATE	DESCRIPTION
1	6/17/18	EME REPORT
0	05/22/18	100% CD

License:

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

Issued For:

CCL05203
BAY MEADOWS
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

GROUNDING DETAILS

Sheet Number:

G-2