

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.

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



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



5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:



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: jm534@att.com
PH: (925) 277-6374
CELL: (310) 740-0691

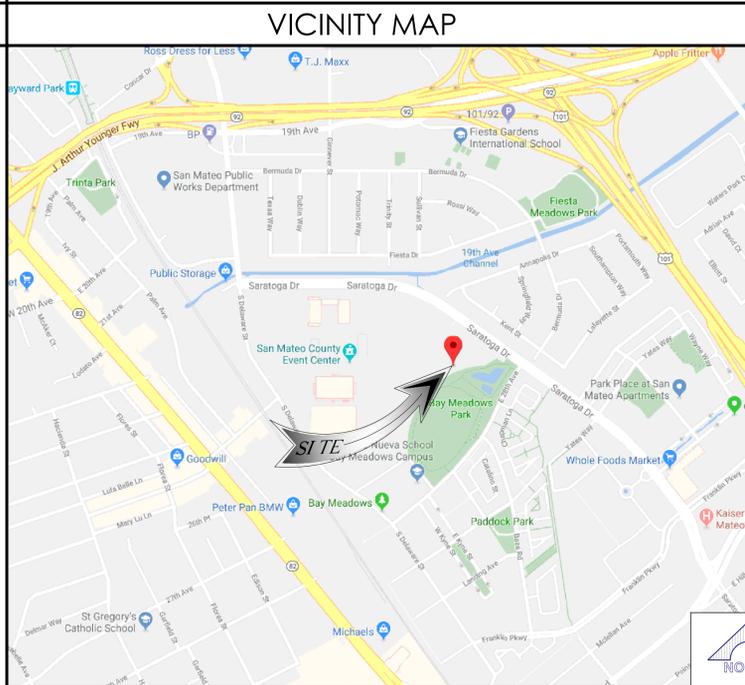
CONSTRUCTION MANAGER:
AT&T MOBILITY SERVICES, LLC
5001 EXECUTIVE PKWY,
SAN RAMON, CA 94583
CONTACT: PHUNG NGUYEN
Sr. Specialist-Tech
Vendor Management
Technology Operations
EMAIL: phung.nguyen@att.com
PH: (925) 277-6480
CELL: (408) 391-0786

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

PROJECT MANAGER, LEASING & ZONING:
J5 INFRASTRUCTURE PARTNERS
1150 BALLENA BLVD, SUITE 259
ALAMEDA, CA 94501
CONTACT: CHARLES OTIS
EMAIL: cotis@j5ip.com
PH: (805) 680-5453

ENGINEER:
J5 INFRASTRUCTURE PARTNERS
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614
CONTACT: JOE FITZSIMONS
email: jfitzsimons@j5ip.com
ph: (949) 247-7767 ext 116

A&E MANAGER:
J5 INFRASTRUCTURE PARTNERS
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614
CONTACT: JASON OFFINEER
EMAIL: joffineer@j5ip.com
PH: (619) 370-4859



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 (8) PROPOSED PANEL ANTENNAS
- SWAP (4) RRU 12 B2 WITH (4) PROPOSED RRU 4415 B25 NEAR ANTENNAS, TYP. (1) PER SECTOR
- INSTALL (2) PROPOSED DIPLEXERS AT SECTORS 'B' & 'D' ANTENNAS
- INSTALL (3) PROPOSED RRU 4478 B14 NEAR ANTENNAS, (1) PER SECTOR
- INSTALL (4) PROPOSED RRU 4426 B66 NEAR ANTENNAS, (1) PER SECTOR
- INSTALL (4) PROPOSED RRU 4478 B5 ON EXISTING H-FRAME WITHIN EXISTING SHELTER
- INSTALL (4) PROPOSED RRU E2 ON EXISTING H-FRAME WITHIN EXISTING SHELTER
- INSTALL (2) PROPOSED 5216 WITHIN EXISTING RACK
- INSTALL (4) PROPOSED XMU WITHIN EXISTING RACK
- INSTALL (1) EXISTING RECTIFIER WITHIN EXISTING DCPD 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" FIBER TRUNK & (4) PROPOSED 0.8" DC POWER TRUNK WITHIN EXISTING MONOPOLE

DRAWN BY: JY
CHECKED BY: JO

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

Licensor:



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 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

- HEAD SOUTH TOWARD BOLLINGER CANYON RD
- USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD
- TURN LEFT ONTO NORRIS CANYON RD
- TURN LEFT ONTO CROW CANYON RD
- CONTINUE ONTO GROVE WAY
- USE THE LEFT 2 LANES TO TURN LEFT ONTO CENTER ST
- CONTINUE ONTO B ST
- TURN LEFT ONTO MISSION BLVD
- TURN RIGHT ONTO CA-92 W/JACKSON ST
- TAKE EXIT 12C FOR DELAWARE ST
- KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR 19TH AVENUE/CONCAR DRIVE
- TURN LEFT ONTO CONCAR DR
- CONCAR DR TURNS LEFT AND BECOMES PACIFIC BLVD
- TURN RIGHT ONTO S DELAWARE ST
- TURN RIGHT ONTO S DELAWARE ST
- TURN LEFT ONTO SARATOGA DR
- TURN RIGHT ONTO EVENT CENTER
- SITE WILL BE ON THE LEFT



800-227-2600
Call 2 Full Working Days In Advance

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

Issued For:

CCL05203

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

Sheet Title:

TITLE SHEET

Sheet Number:

T-1

GENERAL CONSTRUCTION NOTES:

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

A.B.	ANCHOR BOLT
ABV.	ABOVE
ACCA	ANTENNA CABLE COVER ASSEMBLY
ADD'L	ADDITIONAL
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
ALUM.	ALUMINUM
ALT.	ALTERNATE
ANT.	ANTENNA
APPRX.	APPROXIMATE(LY)
ARCH.	ARCHITECT(URAL)
AWG.	AMERICAN WIRE GAUGE
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAILING
BTCW.	BARE TINNED COPPER WIRE
B.O.F.	BOTTOM OF FOOTING
B/U	BACK-UP CABINET
CAB.	CABINET
CANT.	CANTILEVER(ED)
C.I.P.	CAST IN PLACE
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION(OR)
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
d	PENNY (NAILS)
DBL.	DOUBLE
DEPT.	DEPARTMENT
D.F.	DOUGLAS FIR
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DWG.	DRAWING(S)
DWL.	DOWEL(S)
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMT.	ELECTRICAL METALLIC TUBING
E.N.	EDGE NAIL
ENG.	ENGINEER
EQ.	EQUAL
EXP.	EXPANSION
EXST.(E)	EXISTING
EXT.	EXTERIOR
FAB.	FABRICATION(OR)
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FIN.	FINISH(ED)
FLR.	FLOOR

FDN.	FOUNDATION
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
F.S.	FINISH SURFACE
FT.(')	FOOT (FEET)
FTG.	FOOTING
G.	GROWTH (CABINET)
GA.	GAUGE
GI.	GALVANIZE(D)
G.F.I.	GROUND FAULT CIRCUIT
INTERRUPTER	
GLB. (GLU-LAM)	GLUE LAMINATED BEAM
GPS	GLOBAL POSITIONING SYSTEM
GRND.	GROUND
HDR.	HEADER
HGR.	HANGER
HT.	HEIGHT
ICGB.	ISOLATED COPPER GROUND BUS
IN. (")	INCH(ES)
INT.	INTERIOR
LB.(#)	POUND(S)
L.B.	LAG BOLTS
L.F.	LINEAR FEET (FOOT)
L.	LONG(ITUDINAL)
MAS.	MASONRY
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
(N)	NEW
NO.(#)	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
P/C	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION
SERVICES	
PLY.	PLYWOOD
PPC	POWER PROTECTION CABINET
PRC	PRIMARY RADIO CABINET
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
PWR.	POWER (CABINET)
QTY.	QUANTITY
RAD.(R)	RADIUS
REF.	REFERENCE
REINF.	REINFORCEMENT(ING)
REQ'D/	REQUIRED
RGS.	RIGID GALVANIZED STEEL

ABBREVIATIONS:

SCH.	SCHEDULE
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATIONS
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUC.	STRUCTURAL
TEMP.	TEMPORARY
THK.	THICK(NESS)
T.N.	TOE NAIL
T.O.A.	TOP OF ANTENNA
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FOUNDATION
T.O.P.	TOP OF PLATE (PARAPET)
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.G.	UNDER GROUND
U.L.	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
W	WIDE (WIDTH)
w/	WITH
WD.	WOOD
W.P.	WEATHERPROOF
WT.	WEIGHT
Ⓢ	CENTERLINE
P	PLATE, PROPERTY LINE

APPLICABLE CODES, REGULATIONS AND STANDARDS:

- SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
 - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
 - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
 - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
 - EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
 - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
 - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
 - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
 - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
 - FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

SYMBOLS LEGEND:

	BLDG. SECTION		GROUT OR PLASTER
	WALL SECTION		(E) BRICK
	DETAIL		(E) MASONRY
	ELEVATION		CONCRETE
	DOOR SYMBOL		EARTH
	WINDOW SYMBOL		GRAVEL
	TILT-UP PANEL MARK		PLYWOOD
	PROPERTY LINE		SAND
	CENTERLINE		PLYWOOD
	ELEVATION DATUM		(E) STEEL
	GRID/COLUMN LINE		MATCH LINE
	KEYNOTE, DIMENSION ITEM		GROUND CONDUCTOR
	KEYNOTE, CONSTRUCTION ITEM		OVERHEAD SERVICE CONDUCTORS
	WALL TYPE MARK		TELEPHONE CONDUIT
	ROOM NAME ROOM NUMBER		POWER CONDUIT
			COAXIAL CABLE
			CHAIN LINK FENCE
			WOOD FENCE
			(P) ANTENNA
			(P) RRU
			(P) DC SURGE SUPPRESSION
			(F) ANTENNA
			(F) RRU
			(E) EQUIPMENT

PREPARED FOR



5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:



1150 BALLENA BLVD. UNIT 259
ALAMEDA, CA 94501

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Issued For:

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

Sheet Title:

GENERAL NOTES

Sheet Number:

GN-1



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.



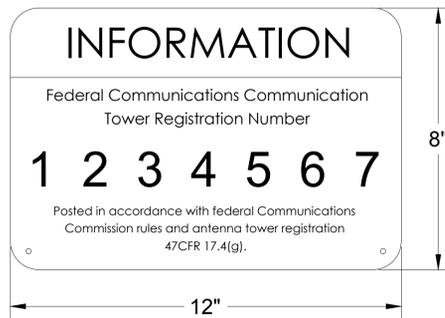
NOTICE
AUTHORIZED PERSONNEL ONLY

8 DOOR / EQUIPMENT SIGN
N.T.S.



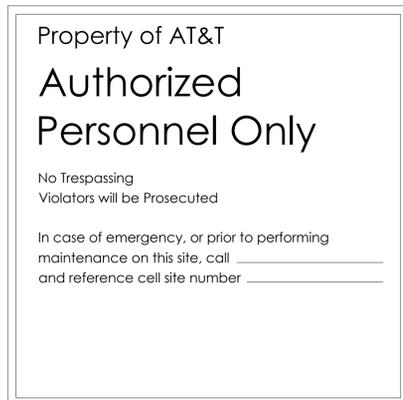
0
3 2
ACID

7 NFPA HAZARD SIGN
N.T.S.



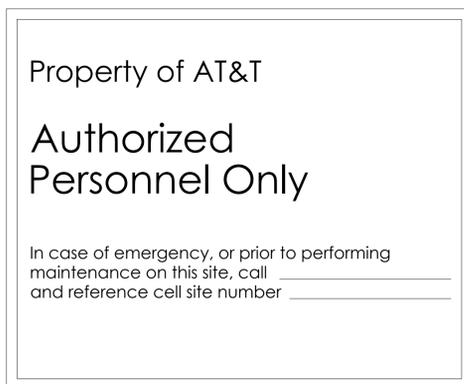
INFORMATION
 Federal Communications Communication
 Tower Registration Number
1 2 3 4 5 6 7
 Posted in accordance with federal Communications
 Commission rules and antenna tower registration
 47CFR 17.4(g).

6 FCC ASR SIGNAGE
N.T.S.



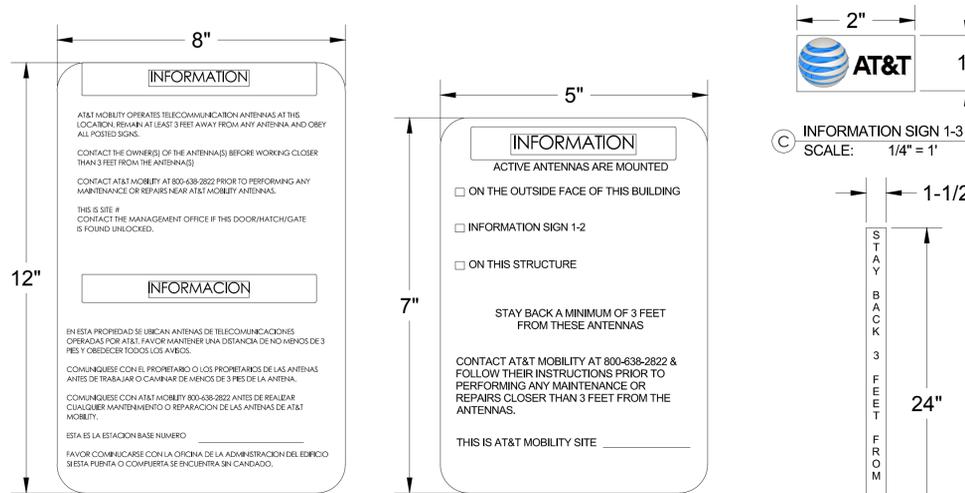
Property of AT&T
Authorized Personnel Only
 No Trespassing
 Violators will be Prosecuted
 In case of emergency, or prior to performing
 maintenance on this site, call _____
 and reference cell site number _____

5 GATE SIGNAGE
N.T.S.



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: 3/16" = 1'

3 INFORMATION SIGNAGE
N.T.S.

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

2. FABRICATION:

*SIGN 1-1: ENTRANCE DOOR, SEE DETAIL 1A, THIS SHEET

SIGN 1 IS TO BE MADE ON THE 50 MIL ALUMINUM SHEETING (SIZE 8 INCHES BY 12 INCHES) w/ FOUR (4) 1/4 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 1/8 INCH LETTERS.

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

3 INFORMATION SIGNAGE
N.T.S.

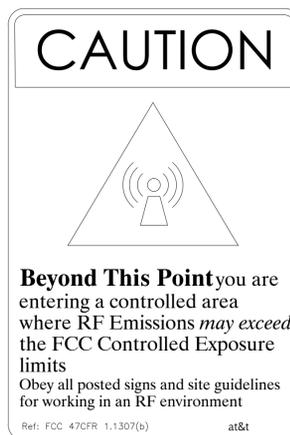
- NOTE:
- CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE w/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.
 - CONTRACTOR SHALL CONTACT AT&T R-RFSC FOR INFORMATION ON MPE LEVELS AND INSTRUCTIONS ON LEVEL AND LOCATION OF SIGNAGE



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

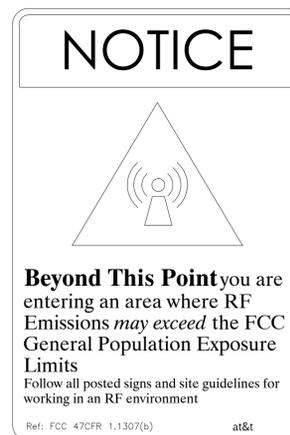
Ref: FCC 47CFR 1.1307(b)

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



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

Ref: FCC 47CFR 1.1307(b) at&t



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

Ref: FCC 47CFR 1.1307(b) at&t

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 5X7 INCHES w/ A WHITE BACKGROUND AND BLACK LETTERING. THE GREEN BAND SHALL BE 1.375 INCH IN HEIGHT & THE LETTERING SHALL BE BLACK w/ 0.75 INCH HIGH LETTERS. THE TEXT LETTERING SHALL BE BLACK w/ 1/8 INCH HIGH LETTERS. UV PROTECTION SHALL BE PLACED OVER THE FRONT OF THE LABEL.

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

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

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

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

SIGNAGE AND STRIPING INFORMATION

- 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.
- THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mWcm*2 AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 5mWcm*2
- 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.
- IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
- IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER COMPLETION OF SITE CONSTRUCTION. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
- ALL TRANSMIT ANTENNAS REQUIRE A THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN SHALL BE PROVIDED TO THE CONTRACTOR Y THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED IN PLAIN SIGHT AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES. THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY w/ ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS SHALL HAVE AT&T'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER SHALL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
- 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

 5001 EXECUTIVE PKWY,
 SAN RAMON CA 94583

Vendor:



1150 BALLEN A BLVD. UNIT 259
 ALAMEDA, CA 94501

AT&T Site ID:

CCL05203

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CHECKED BY: JO

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0	05/22/18	100% CD

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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.



PREPARED FOR



5001 EXECUTIVE PKWY,
SAN RAMON CA 94583

Vendor:



1150 BALLENA BLVD, UNIT 259
ALAMEDA, CA 94501

AT&T Site ID:

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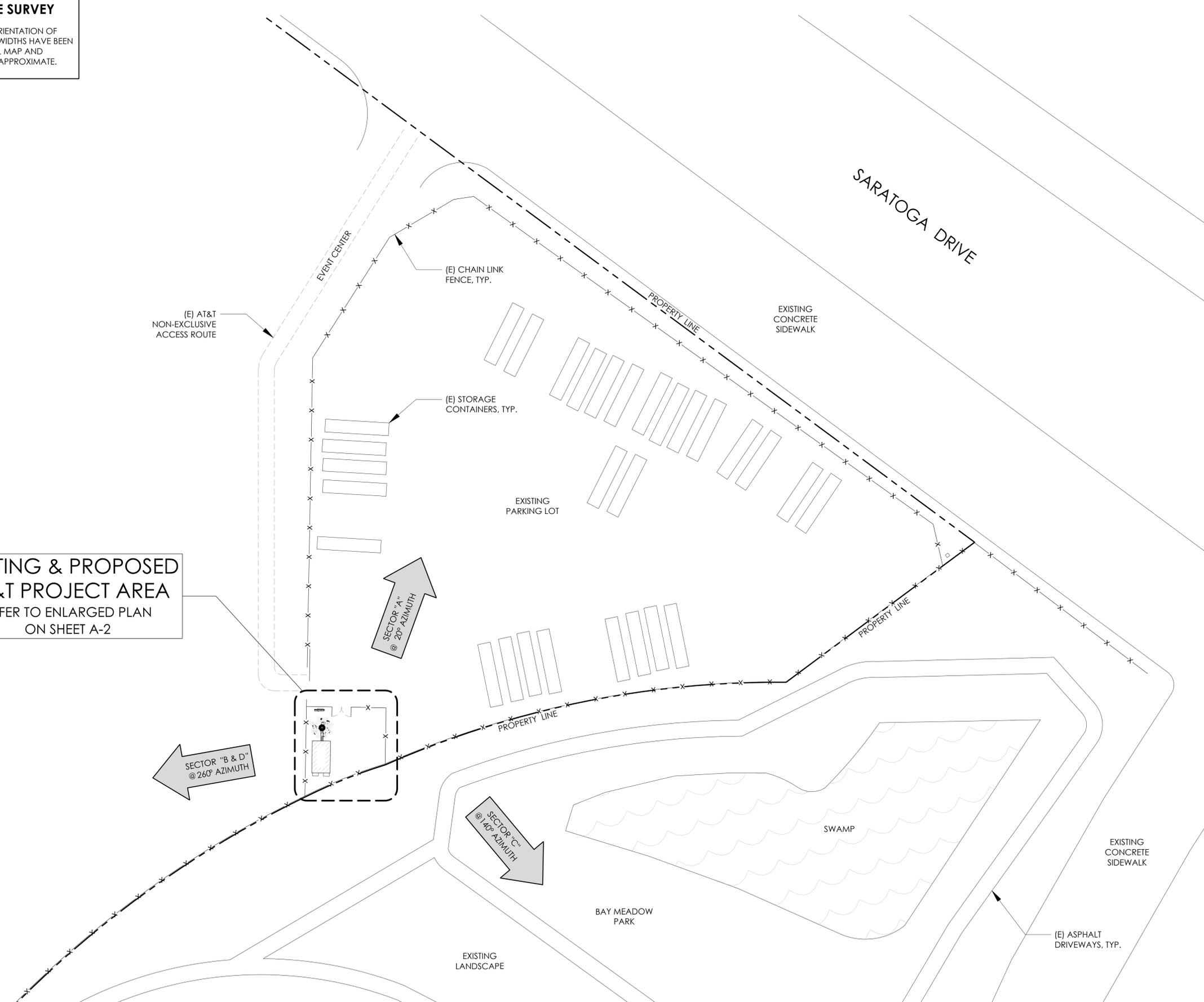
BAY MEADOWS
2495 S. DELAWARE STREET
SAN MATEO, CA 94403

Sheet Title:

OVERALL SITE PLAN

Sheet Number:

A-1

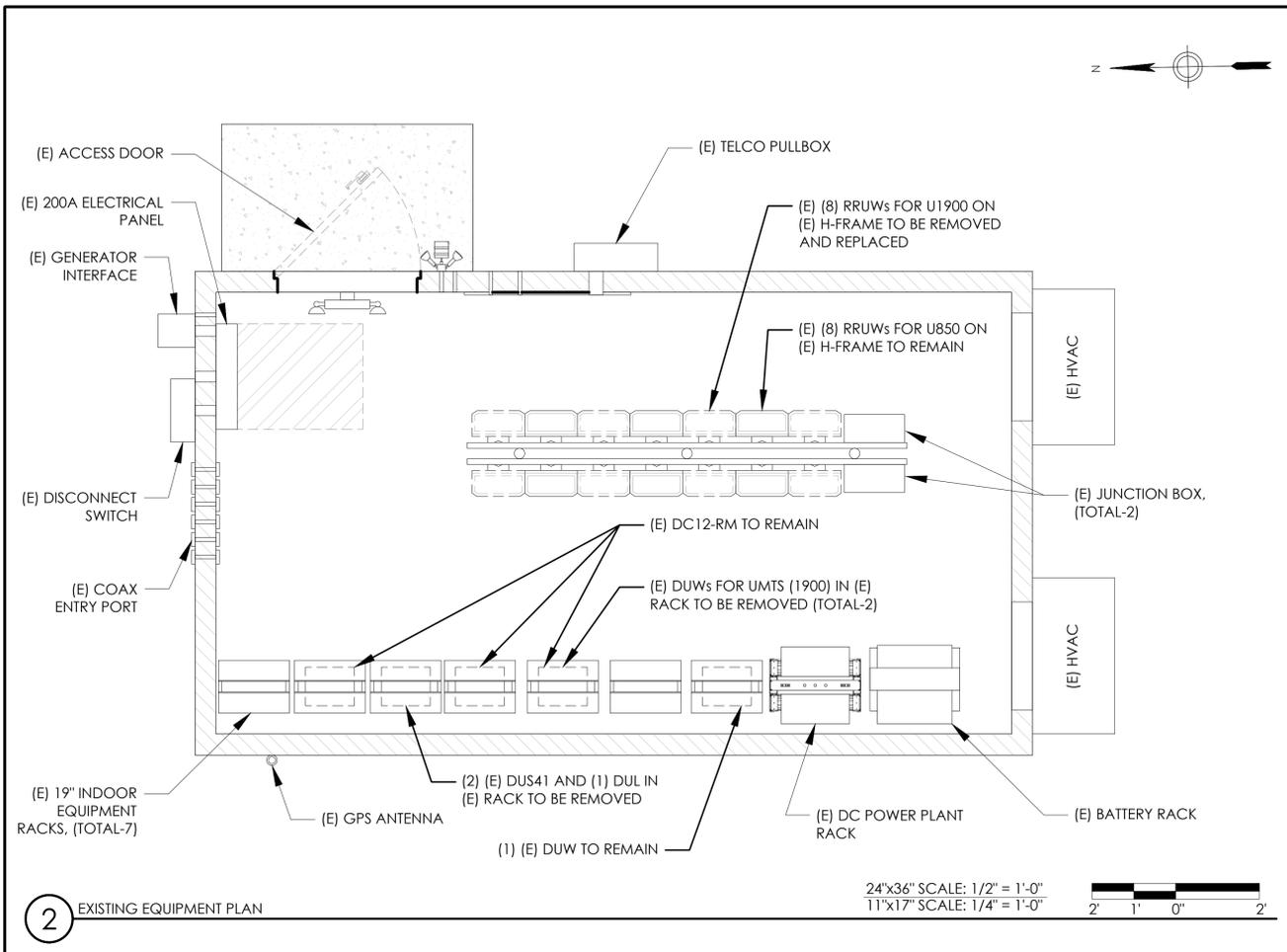


EXISTING & PROPOSED AT&T PROJECT AREA
REFER TO ENLARGED PLAN ON SHEET A-2

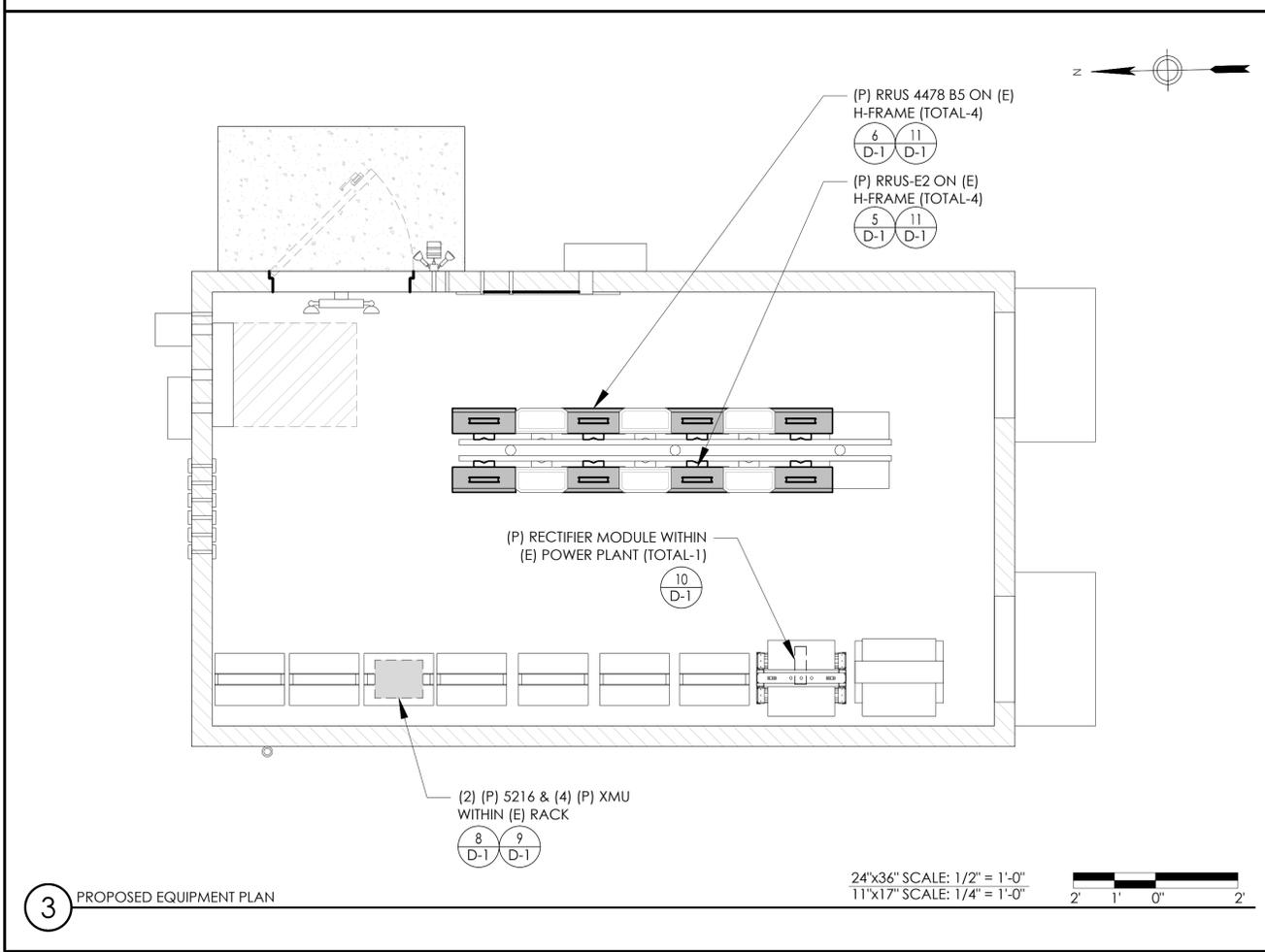
SECTOR "A"
@ 20° AZIMUTH

SECTOR "B & D"
@ 260° AZIMUTH

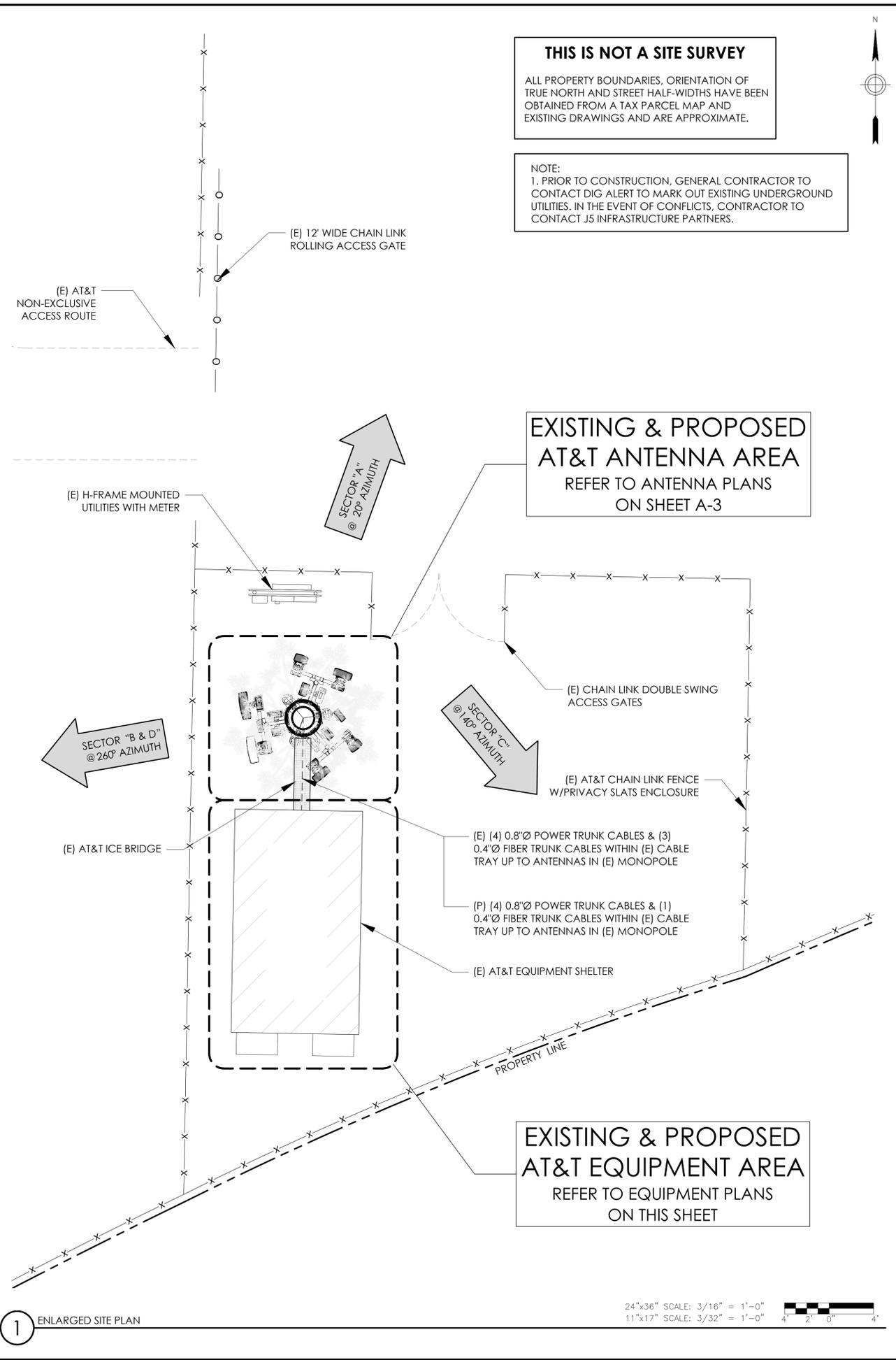
SECTOR "C"
@ 140° AZIMUTH



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

 5001 EXECUTIVE PKWY,
 SAN RAMON CA 94583

Vendor:

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 ALAMEDA, CA 94501

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

Sheet Title:
ENLARGED SITE PLAN & EQUIPMENT PLANS

Sheet Number:
A-2

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 LENGTHS 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.

PREPARED FOR



5001 EXECUTIVE PKWY,
 SAN RAMON CA 94583

Position	Antenna				RRU				Additional Antenna Information				Line Information					
	Swap/Neu	Use	Type	Proposed	Technology		Existing		Proposed		Azimuth		RAD Center		Coax		Power/F	
					Existing	Proposed	RRU Type	RRU Location	RRU Type	RRU Location	Existing	Proposed	Existing	Proposed	Existing	Propose	Existing	Propose
ALPHA																		
1	Swap	ANDREW SBNH-1D6565B	COMMSCOPE JAHH-65B-R3B-V3	1/2"	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"				
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	(8) 7/8" COAX	(8) 7/8" COAX		
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				
ETA / 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"				
2	Use Existing	CCI BSA-M65R-BUU-H6-K	CCI BSA-M65R-BUU-H6-K		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	(16) 7/8" COAX	(16) 7/8" COAX		
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 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"				
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	(8) 7/8" COAX	(8) 7/8" COAX		
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				

(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

Vendor:



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 ALAMEDA, CA 94501

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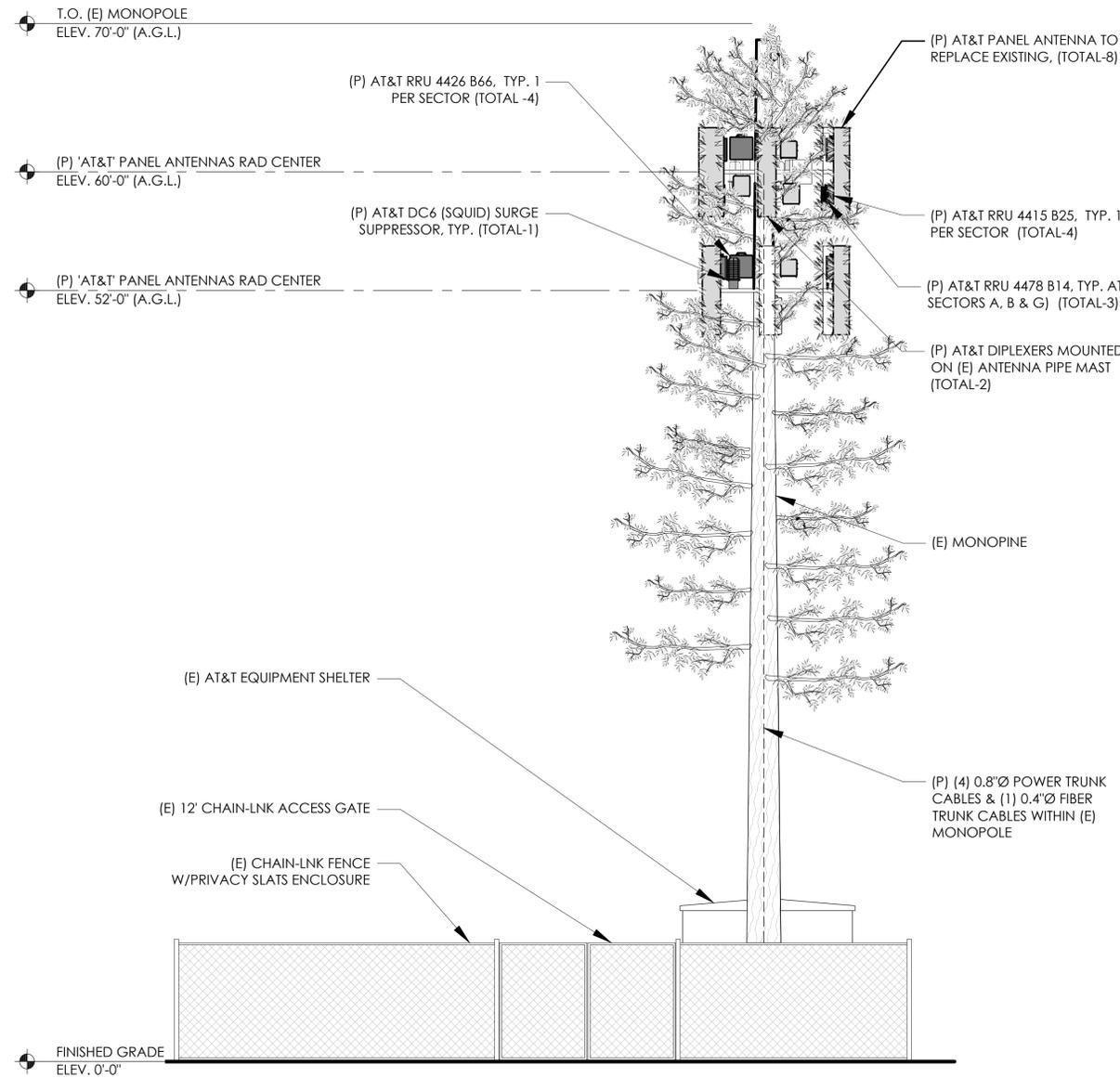
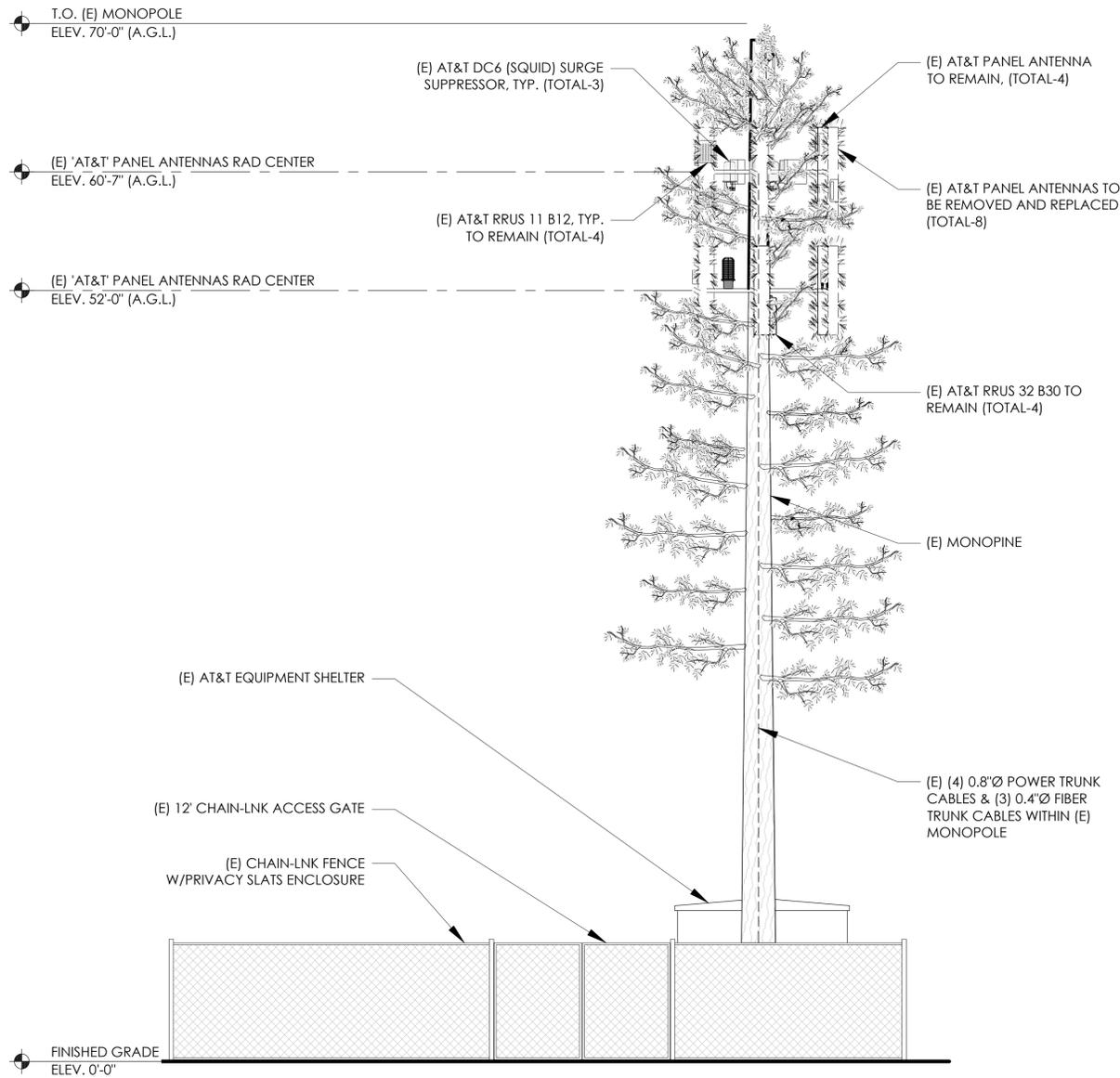


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Issued For:
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 BAY MEADOWS
 2495 S. DELAWARE STREET
 SAN MATEO, CA 94403

Sheet Title:
PROPOSED RF SCHEDULE

Sheet Number:
A-3.1



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).

PREPARED FOR

 5001 EXECUTIVE PKWY,
 SAN RAMON CA 94583

Vendor:

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 ALAMEDA, CA 94501

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

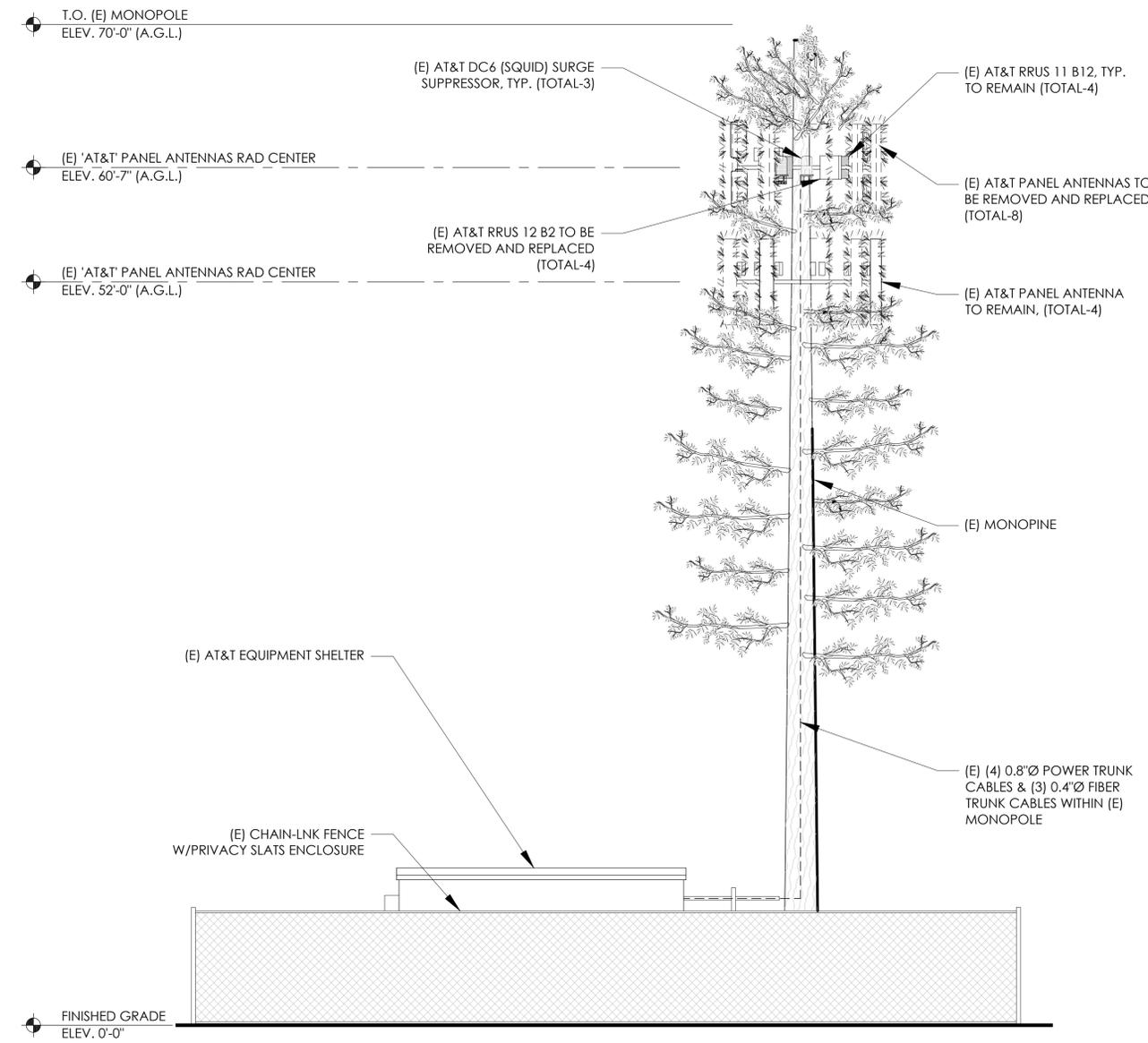


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 BAY MEADOWS
 2495 S. DELAWARE STREET
 SAN MATEO, CA 94403

Sheet Title:
NORTH ELEVATIONS

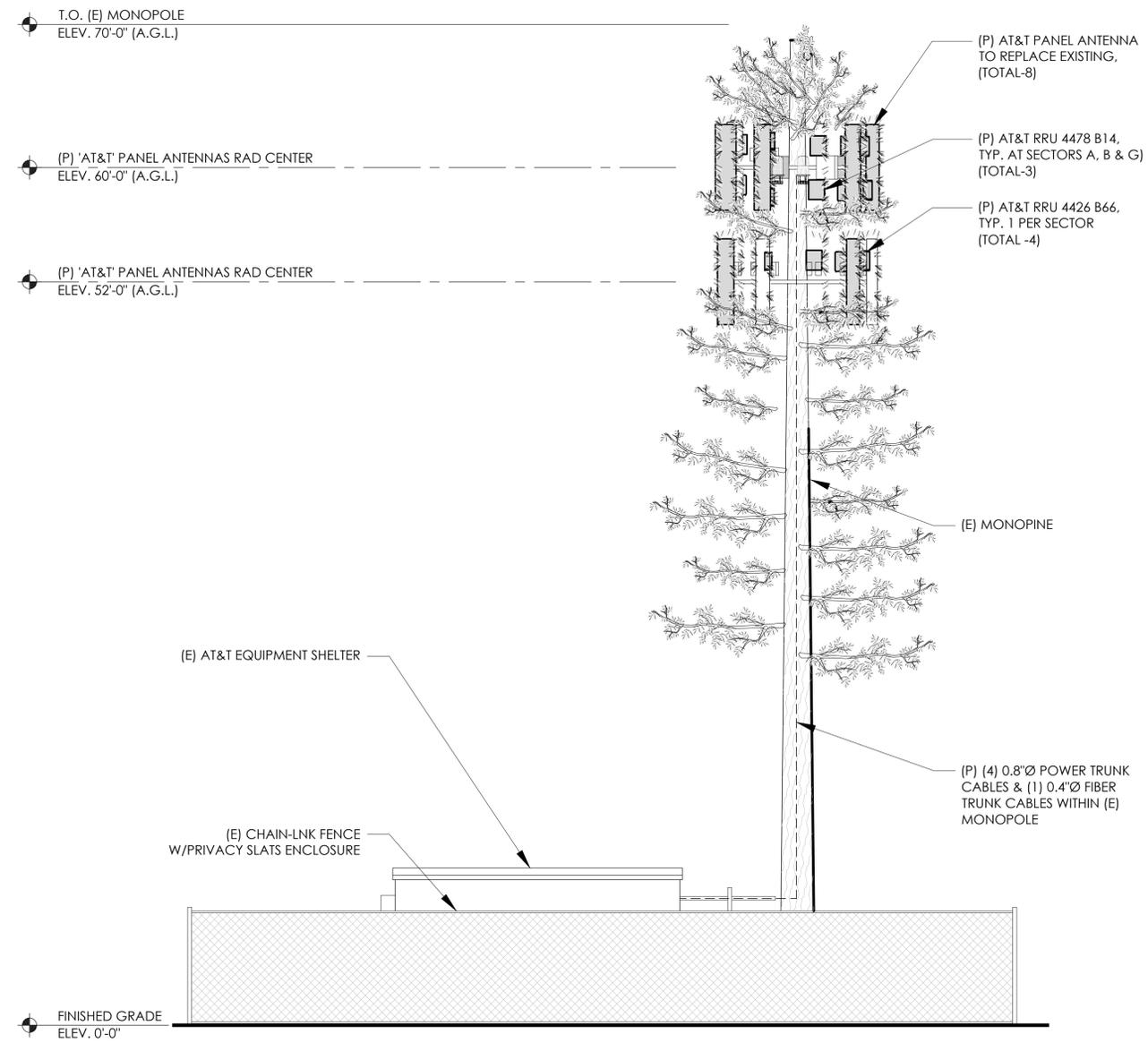
Sheet Number:
A-4



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"

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 SAN RAMON CA 94583

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 ALAMEDA, CA 94501

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

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

Sheet Title:

EAST ELEVATIONS

Sheet Number:

A-5

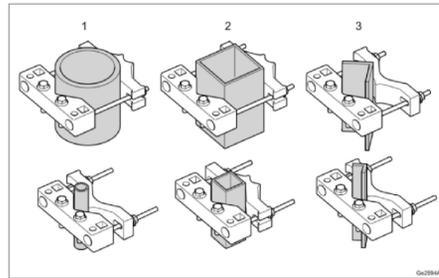


Figure 5 Alternative Pole or Mast Cross Sections

The supported pole diameters are listed in Table 2.

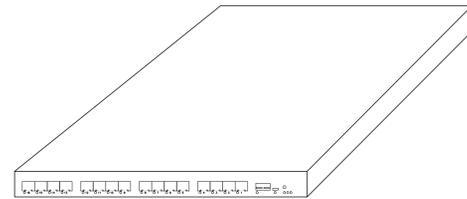
Table 2 Pole or Mast Dimensions

Cross Section	Minimum dimension (mm)	Maximum dimension (mm)
1. Circular	Ø25 ⁽¹⁾	Ø120
2. Square	40x40	80x80
3. 90°	20x20 ⁽²⁾	55x55

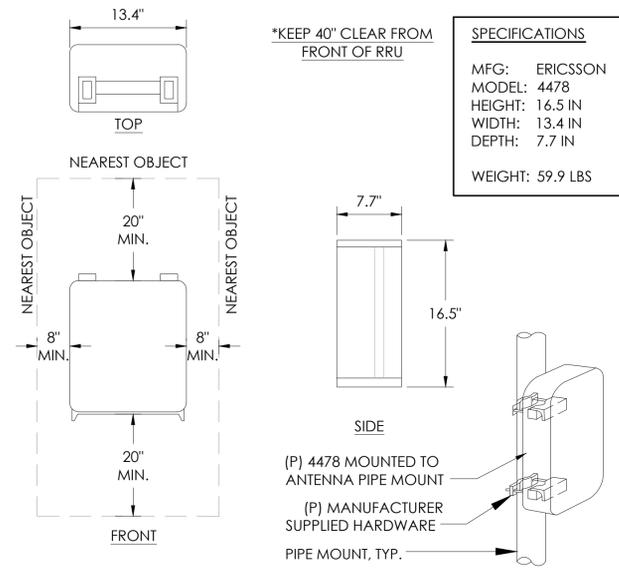
(1) For triple unit installation, the minimum pole dimension is Ø50 mm
(2) For triple unit installation, the minimum pole dimension is 45x45 mm

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

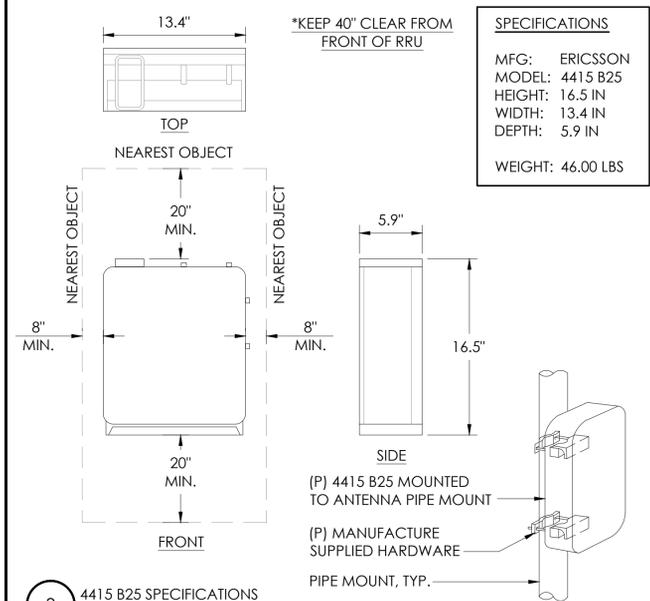
EQUIPMENT SPECIFICATIONS
MFG: ERICSSON
MODEL: R503 XMU
HEIGHT: 1.22 IN
WIDTH: 13.80 IN
DEPTH: 11.00 IN
WEIGHT: 6.90 LBS



9 XMU SPECIFICATIONS
N.T.S.



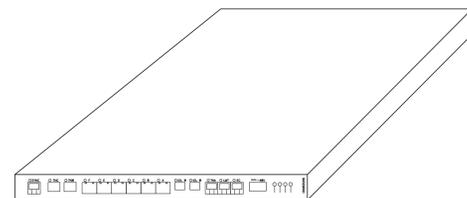
6 4478 B5 SPECIFICATIONS
N.T.S.



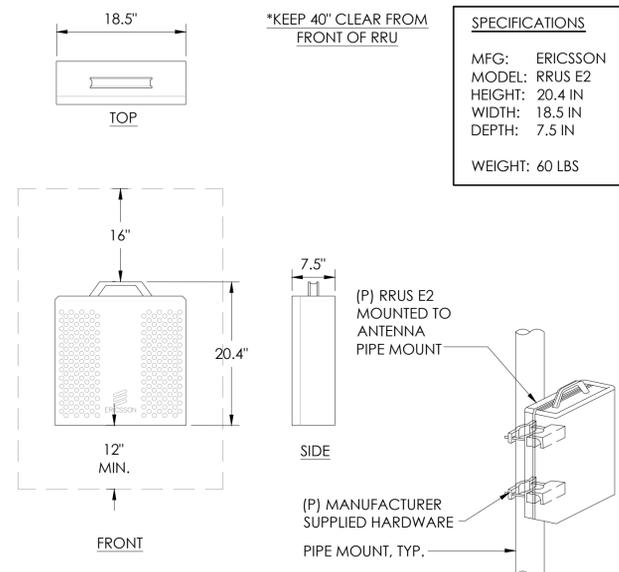
3 4415 B25 SPECIFICATIONS
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

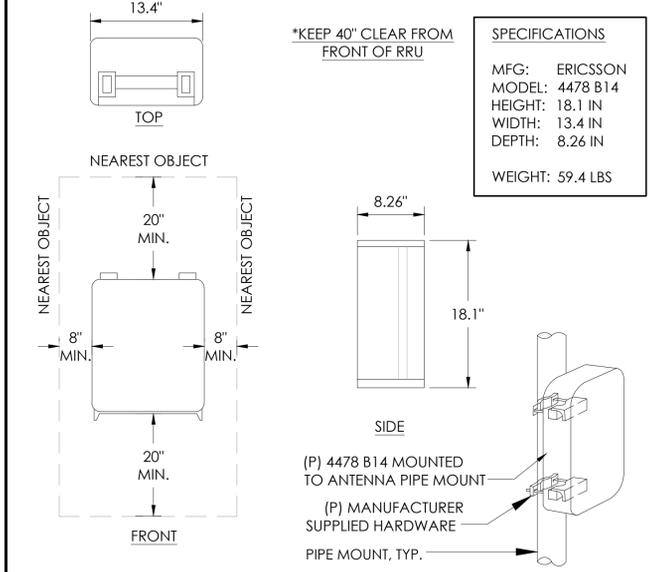
EQUIPMENT SPECIFICATIONS
MFG: ERICSSON
MODEL: BASEBAND 5216
HEIGHT: 1.22 IN
LENGTH: 13.80 IN
WIDTH: 11.02 IN
WEIGHT: 8.82 LBS



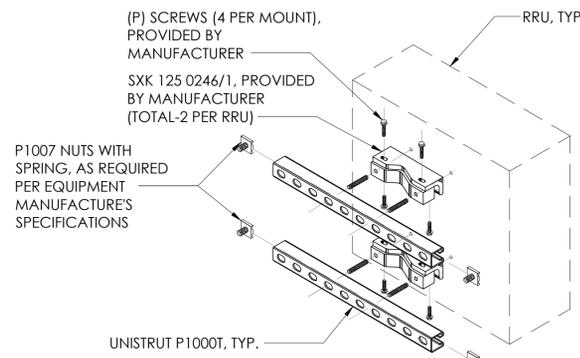
8 5216 SPECIFICATIONS
N.T.S.



5 E2 SPECIFICATIONS
N.T.S.



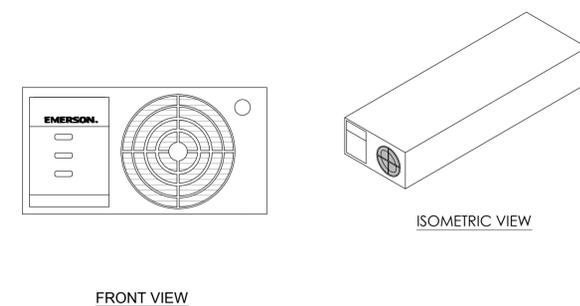
2 4478 B14 SPECIFICATIONS
N.T.S.



11 RRU MOUNTING DETAIL
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

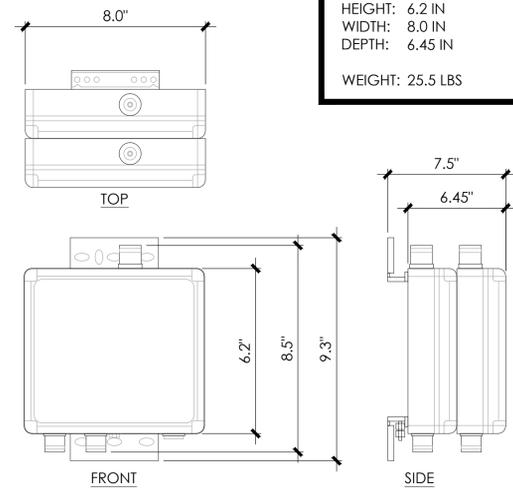
EQUIPMENT SPECIFICATIONS
MFG: EMERSON
MODEL: R48-2000E3
HEIGHT: 1.70 IN
WIDTH: 3.30 IN
DEPTH: 9.90 IN
WEIGHT: 2.49 LBS



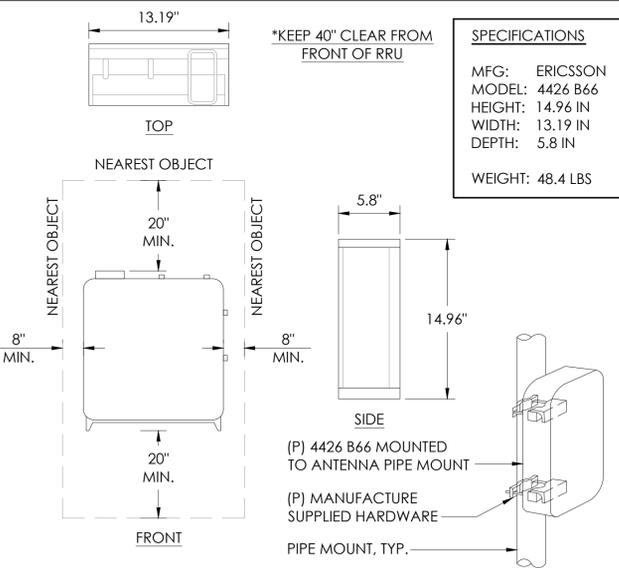
10 RECTIFIER MODULE
N.T.S.

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

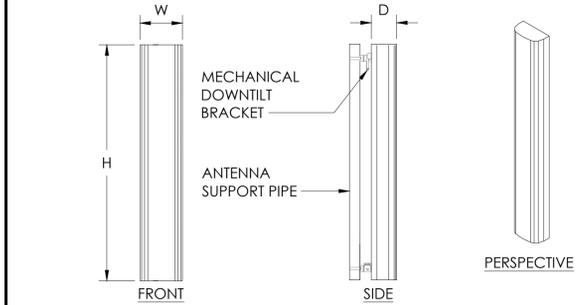


7 DIPLEXER SPECIFICATIONS
N.T.S.



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-M65R-BUU-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.

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SAN RAMON CA 94583

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ALAMEDA, CA 94501

AT&T Site ID:
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Sheet Title:
DETAILS

Sheet Number:
D-1

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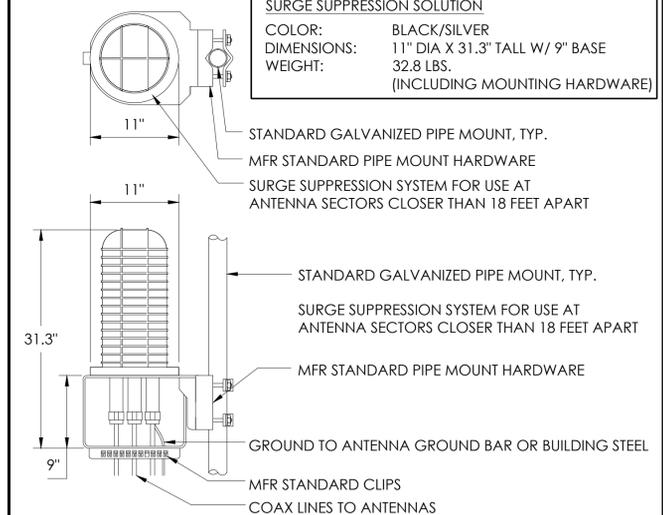
Sheet Title:

DETAILS

Sheet Number:

D-2

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.

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

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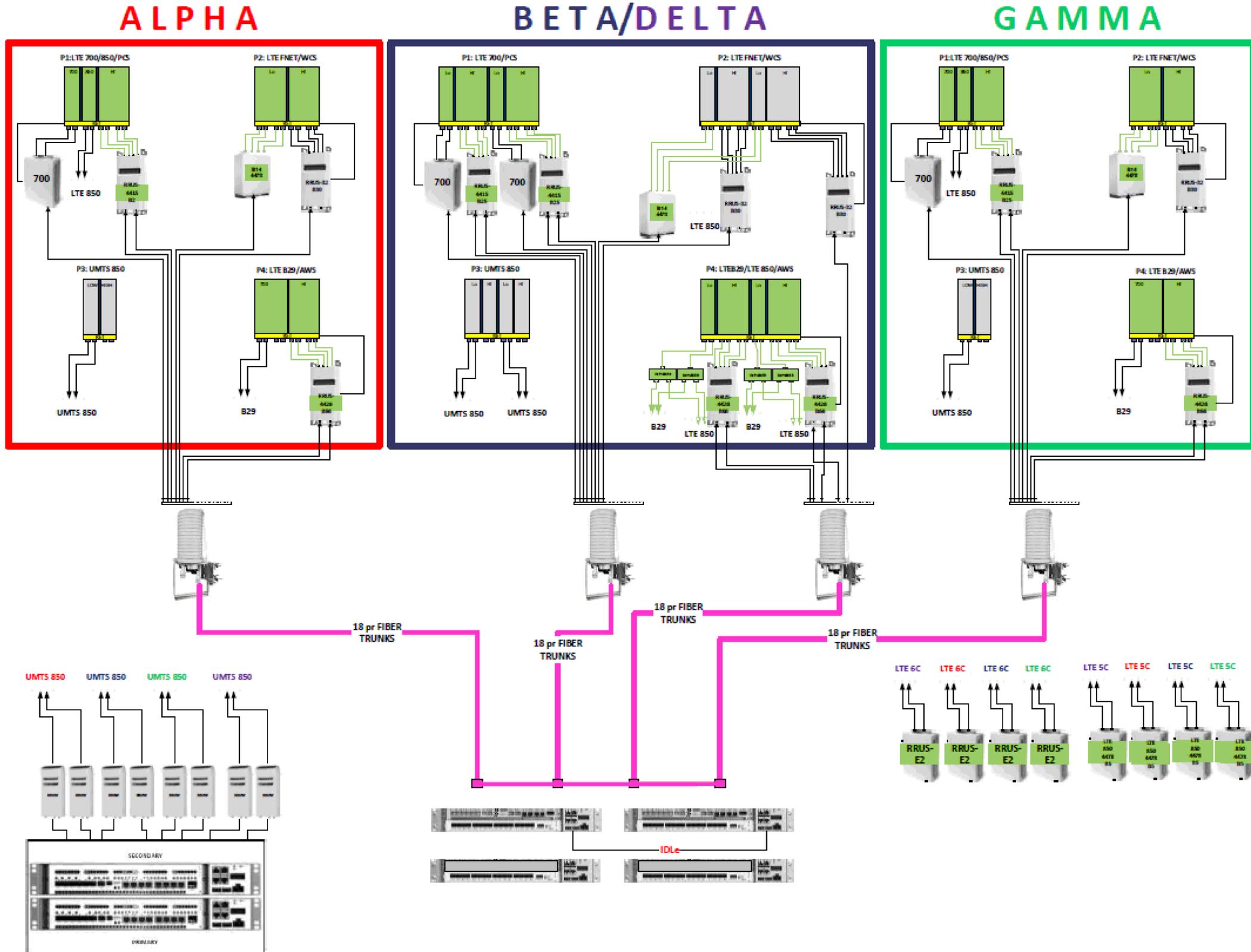
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 SAN MATEO, CA 94403

Sheet Title:
PLUMBING DIAGRAM

Sheet Number:
RF-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 OWNERS) 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 PPC 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 LB'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 LIGHTNING 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.

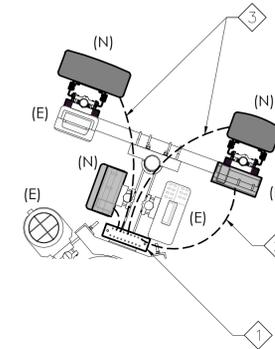
24. ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING 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.

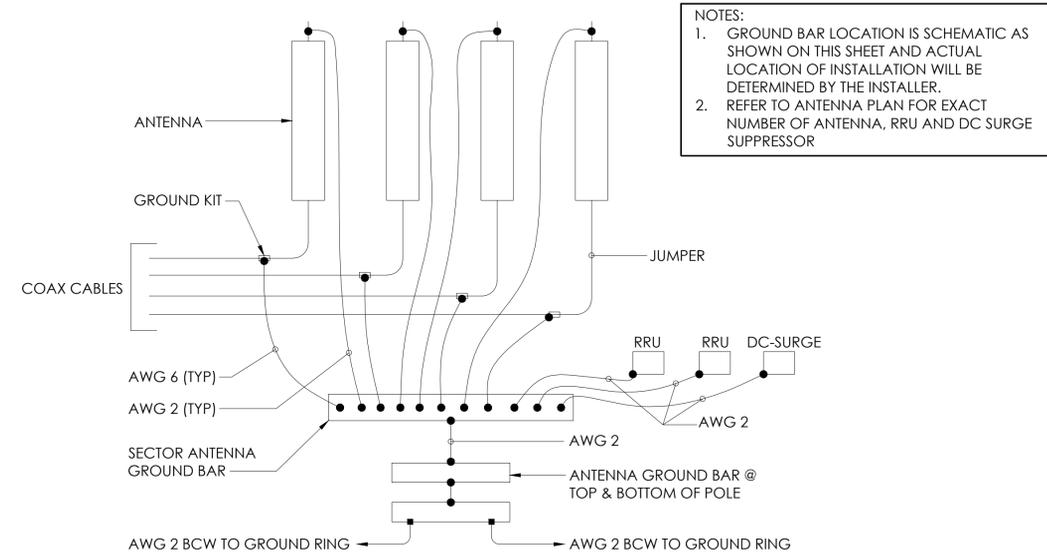
KEY NOTES:

- 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)



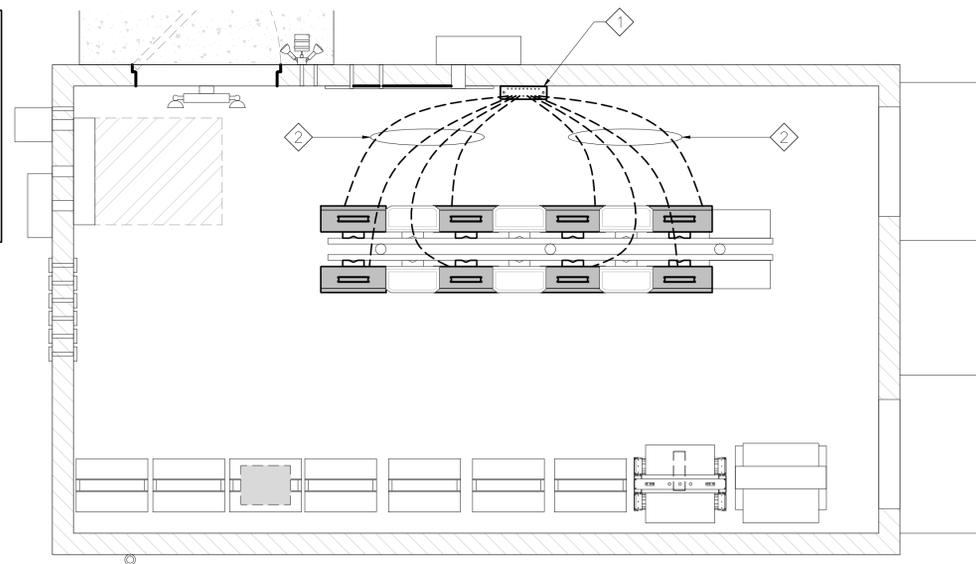
- NOTES:
1. GROUND BAR LOCATION IS SCHEMATIC AS SHOWN ON THIS SHEET AND ACTUAL LOCATION OF INSTALLATION WILL BE DETERMINED BY THE INSTALLER.
 2. REFER TO ANTENNA PLAN FOR EXACT NUMBER OF ANTENNA, RRU AND DC SURGE SUPPRESSOR

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.

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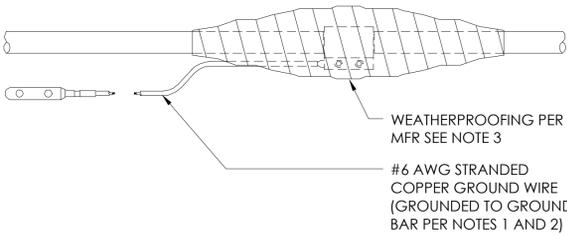
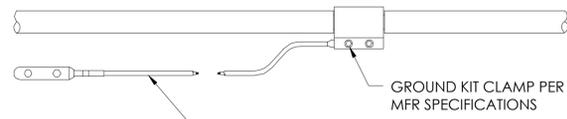
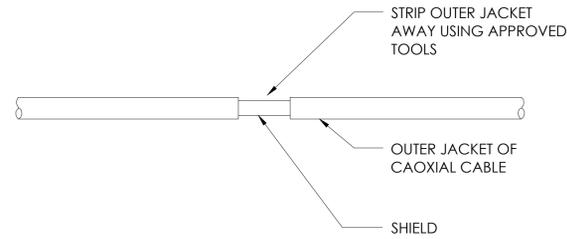
GROUNDING PLANS & NOTES

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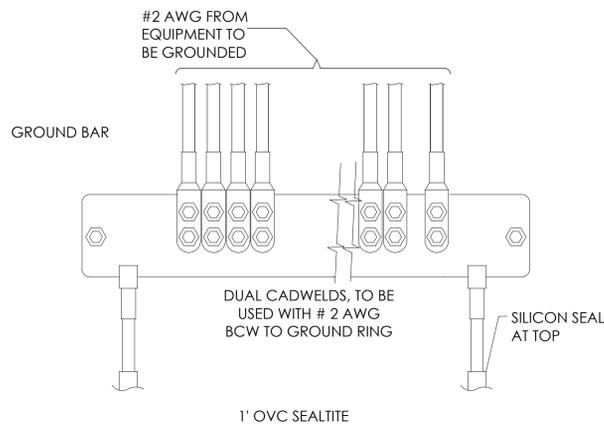
G-1

10 NOT USED
N.T.S.

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



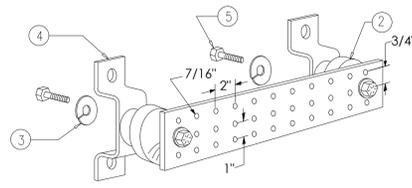
7 GROUND KIT
N.T.S.



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

5 GROUND BAR CONNECTION
N.T.S.

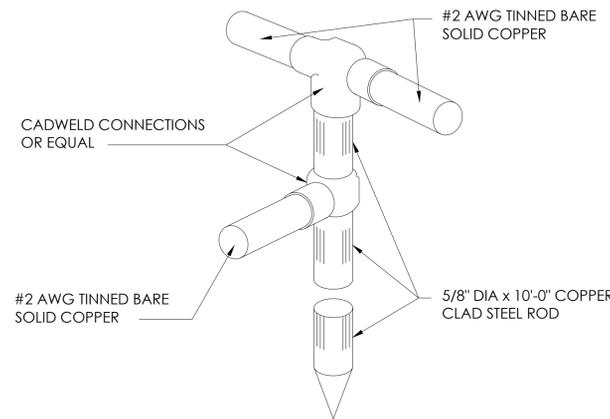
3 NOT USED
N.T.S.



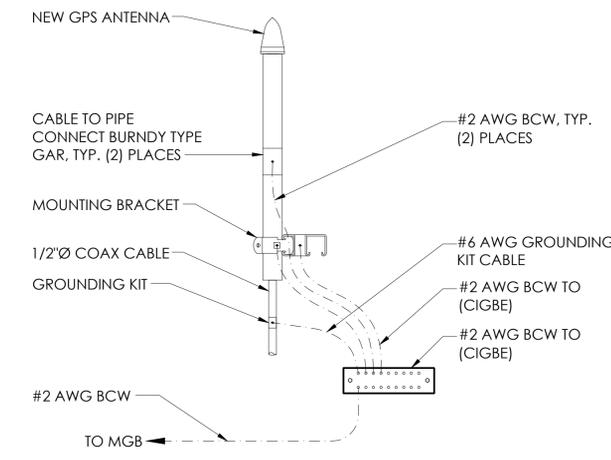
- LEGEND
- COPPER GROUND BAR, "X 1/4"X 20". NEWTON INSTRUMENT CO. CAT. NO. 8-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL
 - 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL
 - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL
 - 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL
 - 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

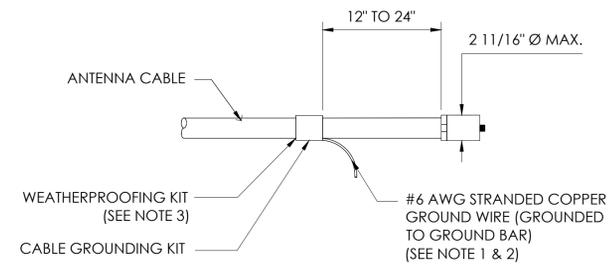
4 GROUND BAR DETAIL
N.T.S.



2 GROUND ROD DETAIL
N.T.S.

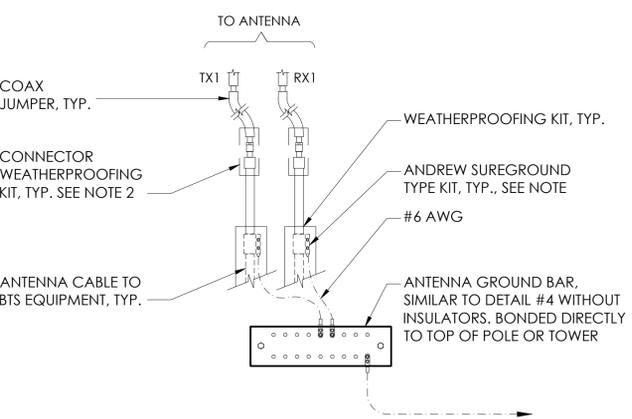


9 GPS ANTENNA GROUNDING
N.T.S.



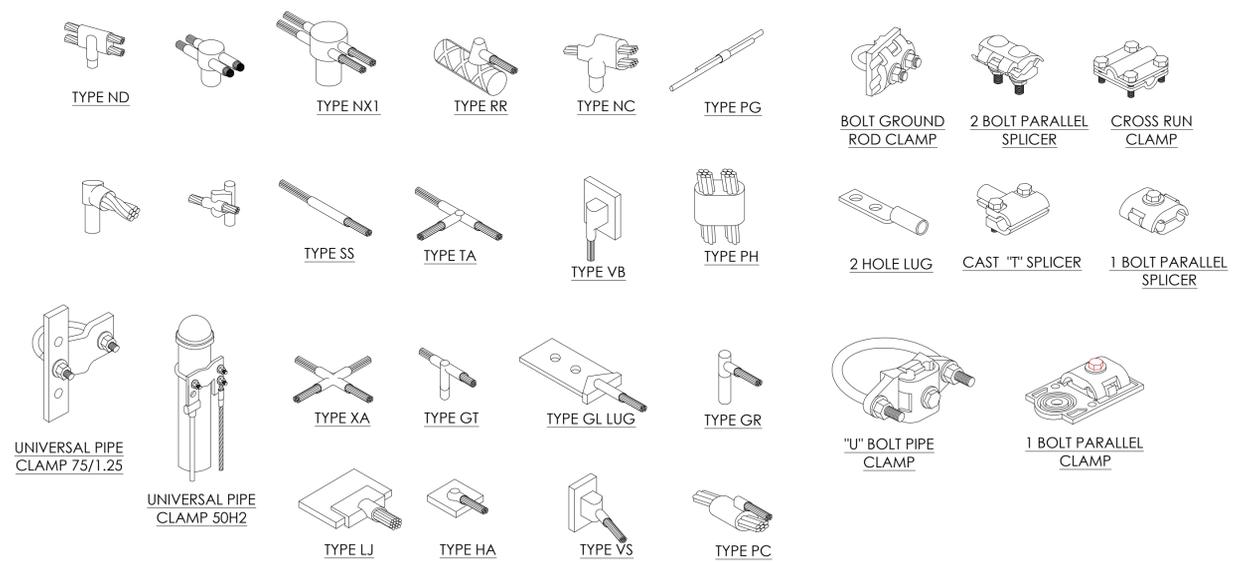
- NOTE:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT WIRE DOWN TO GROUND BAR.
 - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 - WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

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



- NOTE:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
 - 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.

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