



ARLINGTON COUNTY, VIRGINIA

**County Board Agenda Item
Meeting of March 12, 2011**

DATE: February 23, 2011

SUBJECT: U-3275-11-1 USE PERMIT for public utility/telecommunications for three (3) panel antennas located at 1512 S. Arlington Ridge Road (RPC# 35-007-001).

Applicant:

AT&T Mobility

By:

Charles Salamone IV, Zoning Project Manager
Network Building and Consulting
7380 Coca Cola Drive, Suite 106
Hanover, Maryland 21076

C.M. RECOMMENDATION:

Approve the use permit for the addition of three (3) panel antennas to an existing telecommunications facility located on the roof of an apartment building subject to the conditions of the staff report.

ISSUES: The applicant is requesting a use permit to collocate three (3) panel antennas at an existing telecommunications facility on the roof of an apartment building, and no issues have been identified.

SUMMARY: The applicant, AT&T Mobility, is requesting a use permit for the addition of three (3) dual-band panel antennas to an existing telecommunications facility on the roof of the Parliament House apartment building in the Arlington Ridge neighborhood. The three (3) antennas are proposed to be mounted at the same height as the existing antennas on the building's penthouse, and will not result in a visual impact. The proposal is consistent with the *Interim Guidelines for Telecommunications Facilities on County-Owned Property* (Telecommunications Guidelines), which also applies to private properties, and which encourages the placement of antennas on existing structures. The Arlington Ridge Civic Association has expressed no issues with the applicant's proposal. Therefore, staff recommends that the use permit be approved subject to the conditions of the staff report.

County Manager:

BMD/GA

Staff: Matthew Pfeiffer, DCPHD, Planning Division

PLA-5840

9.

BACKGROUND: The applicant is proposing to collocate an additional three (3) panel antennas at an existing telecommunications facility on the penthouse of a multifamily building at 1512 S. Arlington Ridge Road. The site is described as follows:

Site: The site is bounded on the east by South Arlington Ridge Road, on the west by South Nash Street, and on the south by the I-395 exit ramp from South Arlington Ridge Road. The site consists of a multifamily apartment building.

Zoning: The site is zoned “RA6-15” Apartment Dwelling Districts, and “S-3A” Special Districts.

Land Use: The site is designated on the General Land Use Plan (GLUP) as “Medium” Residential (37-72 units/acre) and “Public” parks (*local, regional, federal*) schools (*public*) parkways, major unpaved rights-of-way, libraries and cultural facilities.

Neighborhood: The site is located within the Arlington Ridge Civic Association. The president of the civic association has expressed that they have no issues with the applicant’s proposal.

DISCUSSION: The applicant, AT&T Mobility, is requesting a use permit for the placement of three (3) panel antennas on the penthouse of an apartment building at 1512 S. Arlington Ridge Road. There are six (6) existing AT&T antennas mounted on the penthouse wall currently. The applicant’s proposal includes mounting three (3) dual-band panel antennas on the wall of the existing penthouse on the north, east, and west walls respectively, and coaxial cable connections for the antennas. The subject antennas each measure approximately 58 inches in length.

The *Interim Guidelines for Placement of Telecommunications Facilities on County-Owned Property* (Telecommunications Guidelines), were used to evaluate the application. The Telecommunication Guidelines offer direction in the way of design, visual impact, and compliance with Federal Communications Commission (FCC) regulations, among other things. The Telecommunication Guidelines can be applied to telecommunication facilities on privately- owned as well as County-owned property. The Telecommunications Guidelines encourage the location of new antennas on existing structures, as opposed to constructing a new pole. The proposed antennas meet these criteria. Attached are plans depicting the location and appearance of the proposed panel antennas.

The proposal would not have a visual impact on the surrounding residences. The penthouse on the subject building reaches a height of 88 feet, and the proposed antennas will not exceed that height. Moreover, the antennas would be mounted at a centerline height of 85 feet, which is the same height as all existing antennas at the site. The proposed antennas will be painted to match the color of the existing antennas at the site. The facility will continue to be unmanned, and no ground space would be used in association with this proposal. An equipment cabinet to serve the antennas is proposed to be located in an existing equipment room in the basement of the building.

CONCLUSION: Staff supports the applicant's proposal because it is consistent with the Telecommunications Guidelines and it will not create an additional visual impact. The Arlington Ridge Civic Association has expressed to staff that they have no issues with the applicant's proposal. Therefore, staff recommends that the use permit for AT&T Mobility for the placement of three (3) panel antennas to an existing telecommunications facility at 1512 S. Arlington Ridge Road be approved subject to the following conditions.

Conditions:

1. The applicant agrees that the three (3) AT&T panel antennas on the existing building at 1512 S. Arlington Ridge Road will be installed as shown on plans dated October 14, 2010. Any additional antennas on the site will require a use permit amendment.
2. The applicant shall identify a community liaison who shall be available to address any concerns regarding the facility operation. The name and telephone number of the liaison shall be provided to the Arlington Ridge Civic Association and the Zoning Administrator.
3. The applicant agrees that the antennas shall be removed within ninety (90) days after any cessation of use.

PREVIOUS COUNTY BOARD ACTIONS: There are no previous County Board actions on this property.

PROJECT INFORMATION

APPLICANT ADDRESS:
 AT&T
 7150 STANDARD DRIVE
 HANOVER, MD 21076

APPLICANT NAME:
 STEVEN SAPHIRE

JURISDICTION:
 ARLINGTON COUNTY, VA

SITE ADDRESS:
 1912 SOUTH ARLINGTON RIDGE ROAD
 ARLINGTON, VA, 22202-1178

PROPERTY OWNER:
 THORSON MANAGEMENT CONSULTING INC.
 1004 NORTH RANDOLPH STREET
 ARLINGTON, VA, 22201

LATITUDE:
 N 38.860918° (NAD 83)

LONGITUDE:
 W 77.067144° (NAD 83)

REF DATA SHEET:
 VERSION 21 (6-25-10)

INDEX OF DRAWINGS

SITE ID	DRAWING NAME	REV.
VA-2842-01	TITLE SHEET	A
VA-2842-02	SITE PLAN	A
VA-2842-03	BUILDING ELEVATIONS	A
VA-2842-04	NEW WORK SHELTER PLAN, KENTPLAN, AND NOTES	A
VA-2842-05	DETAILS AND ANTENNA SCHEDULE	A
VA-2842-06	SCHEMATIC WIRING DIAGRAM	A
VA-2842-07	ANTENNA SYSTEM DIAGRAM	A
VA-2842-08	LTE DETAILS	A
VA-2842-09	RET CONTROL DIAGRAM	A
VA-2842-10	DETAILS	A

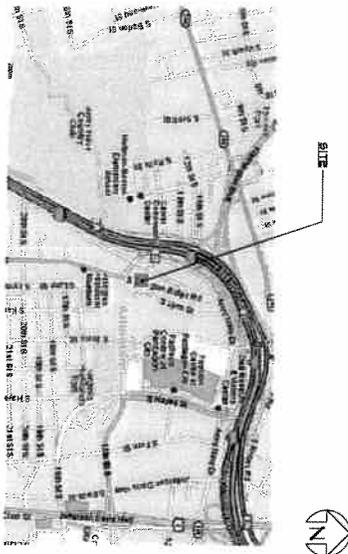
A/E DOCUMENT REVIEW STATUS

STATUS CODE	DESCRIPTION	DATE
1	Approved - with notes or no comments, construction may proceed	
2	Not Approved - minor revision comments on request	
3	Approved does not constitute approval of design details, calculations, analysis, list of materials, etc. It is the responsibility of the contractor to provide all information and documentation from full compliance with contract stipulations and codes not relative to the project.	
4	Not Approved - requires revision comments on request	

at&t
 Mobility

SITE NAME: PARLIAMENT HOUSE
SITE NUMBER: 2842

VICINITY MAP



DIRECTIONS

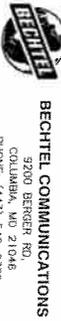
- GO NORTHWEST ON STANDARD DRIVE
- TURN LEFT ONTO PARKWAY DRIVE
- TURN LEFT ONTO PARK CIRCLE DRIVE
- CONTINUE ONTO COCA COLA DRIVE
- TAKE EXIT 94 AND 205 S BAL TOWNSHIP, SOUTH WASHINGTON ON RIGHT
- CONTINUE ONTO US-50 N NEW YORK AVE NE
- BEAR RIGHT ONTO US-50 N NEW YORK AVE NE
- CONTINUE ONTO 1345 S
- TAKE EXIT 6A VIA VA-21 WASHINGTON BLVD CARROLL STAGING AREA FENTASON SOUTH PARKING, S ARLINGTON RIDGE RD, ON RIGHT
- TAKE VA-21 WASHINGTON BLVD, RIDGE RD, RAMP ON RIGHT
- TAKE 1345 S, S ARLINGTON RIDGE RD, RAMP ON THE RIGHT
- TURN LEFT ONTO S ARLINGTON RIDGE RD, RAMP ON THE RIGHT
- TURN LEFT ONTO S ARLINGTON RIDGE ROAD, ARLINGTON VA, 22202-1178

APPLICABLE BUILDING CODES AND STANDARDS

- SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A/J) FOR THE LOCATION. THE EDITION OF THE A/J ADOPTED SHALL GOVERN THE DESIGN.
- BUILDING CODE: INTERNATIONAL BUILDING CODE 2006 WITH LOCAL AMENDMENTS 2008 VIRGINIA UNIFORM STATEWIDE BUILDING CODE.
- 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, 9TH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES FOR TELECOMMUNICATIONS
 - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR ELECTRICAL INSULATION TESTING AND TESTING METHODS FOR INSULATED SURFACE MOUNTED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT (95TH EDITION)
 - IEEE 6494, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS FOR LOCATION CATEGORIES C29 AND HIGH SURGE EXPOSURE)
 - TELECOM/DA 68-4275, GENERAL INSTALLATION REQUIREMENTS
 - ANSI T191, FOR TELECOM - DC POWER SYSTEMS - TELECOM ENVIRONMENTAL PROTECTION
 - FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE INSTALLATION OF THREE (3) NEW ANTENNAS, WALL MOUNTED TO PARLIAMENT HOUSE, NEW EQUIPMENT CABINET TO BE INSTALLED IN EQUIPMENT ROOM LOCATED IN BASEMENT LEVEL.



BECHTEL COMMUNICATIONS
 6720 BERGER RD
 21046
 PHONE: (443) 549-2308



7150 STANDARD DRIVE
 HANOVER, MD 21076

SITE NAME: PARLIAMENT HOUSE
SITE NUMBER: 2842
 1317 SOUTH ARLINGTON RIDGE ROAD
 ARLINGTON, VA, 22202



1317 SOUTH ARLINGTON RIDGE ROAD
 ARLINGTON, VA, 22202

NO	DATE	REVISIONS	BY	CHK'D BY	DATE
1	02/10/10	ISSUED FOR REVIEW	BRUNNEN	BRUNNEN	02/10/10
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7150 STANDARD DRIVE
 HANOVER, MD 21076

1317 SOUTH ARLINGTON RIDGE ROAD
 ARLINGTON, VA, 22202

2842

VA-2842-01

REV

A

ANTENNA CABLE SCHEDULE

ANTENNA POSITION	AZIMUTH	TYPE OF ANTENNA	RAD CENTER	COAX SIZE	EST LENGTH	TYPE COLOR	ANTENNA DIRECTION	REF CABLES
1	30 DEGREE	EXISTING	49'-0"	EXISTING	EXISTING	ISOCORNFLEX	RYTX	BROWN
2	30 DEGREE	KATHREIN ROO 10764	49'-0"	12/12"	EXISTING	ISOCORNFLEX	RYTX	BROWN
3	30 DEGREE	EXISTING	49'-0"	EXISTING	EXISTING	ISOCORNFLEX	RYTX	BROWN
4	30 DEGREE	EXISTING	49'-0"	EXISTING	EXISTING	ISOCORNFLEX	RYTX	BROWN
5	30 DEGREE	KATHREIN ROO 10764	49'-0"	12/12"	EXISTING	ISOCORNFLEX	RYTX	BROWN
6	30 DEGREE	EXISTING	49'-0"	EXISTING	EXISTING	ISOCORNFLEX	RYTX	BROWN
7	30 DEGREE	EXISTING	49'-0"	EXISTING	EXISTING	ISOCORNFLEX	RYTX	BROWN
8	30 DEGREE	KATHREIN ROO 10764	49'-0"	12/12"	EXISTING	ISOCORNFLEX	RYTX	BROWN
9	30 DEGREE	EXISTING	49'-0"	EXISTING	EXISTING	ISOCORNFLEX	RYTX	BROWN
10	30 DEGREE	EXISTING	49'-0"	EXISTING	EXISTING	ISOCORNFLEX	RYTX	BROWN
11	30 DEGREE	EXISTING	49'-0"	EXISTING	EXISTING	ISOCORNFLEX	RYTX	BROWN
12	30 DEGREE	EXISTING	49'-0"	EXISTING	EXISTING	ISOCORNFLEX	RYTX	BROWN

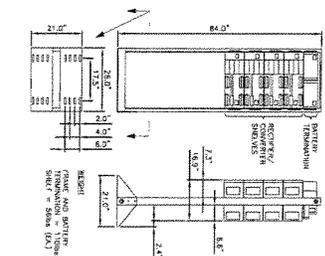
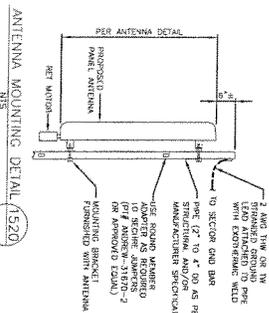
ANTENNA SCHEDULE NOTES

- ALL CABLE LENGTHS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR
- CONTRACTOR SHALL VERIFY ALL CABLE TYPES AND BY RESISTANT SUCH AS SCOTCH
- CONTRACTOR SHALL COORDINATE COLOR CODING IN THE FIELD WITH ANT REPRESENTATIVE
- CONTRACTOR SHALL INSTALL A BRASS IDENTIFICATION TAG (1/2" IN DIAMETER) NEAR THE END OF LEADS AND ONE ON THE END NEAR THE RADIO EQUIPMENT. NUMBER TAGS SHALL BE ATTACHED WITH A CORRESPONDING PENCIL MARK SUCH AS STAINLESS STEELING WIRE.

FIBER TRUNK CHANNEL	FIBER TRUNK NUMBER	SECTION NUMBER	RADIO NUMBER	FIBER TAG #1	FIBER TAG #2	DC TRUNK DC TRUNK POSITION	DC TRUNK POSITION
1	700	A	R9H-1A1	R9H-700-A1	A1-700	REV/BLUE	REV/BLUE
2	A95	A	R9H-1A2	R9H-495-A2	N2-495	REV/BLUE	REV/BLUE
3	A	A	R9H-1A3	R9H-495-A3	N2-495	REV/BLUE	REV/BLUE
4	A	A	R9H-1A4	R9H-495-A4	N2-495	REV/BLUE	REV/BLUE
5	700	B	R9H-801	R9H-700-B1	B1-700	REV/GRN	REV/GRN
6	A95	B	R9H-802	R9H-495-B2	B2-495	REV/GRN	REV/GRN
7	B	B	R9H-803	R9H-495-B3	B2-495	REV/GRN	REV/GRN
8	700	C	R9H-1C1	R9H-700-C1	C1-700	REV/GRN	REV/GRN
9	A95	C	R9H-1C2	R9H-495-C2	C2-495	REV/GRN	REV/GRN
10	A95	C	R9H-1C3	R9H-495-C3	C2-495	REV/GRN	REV/GRN
11	A	C	R9H-1C4	R9H-495-C4	C2-495	REV/GRN	REV/GRN
12	A	C	R9H-1C5	R9H-495-C5	C2-495	REV/GRN	REV/GRN

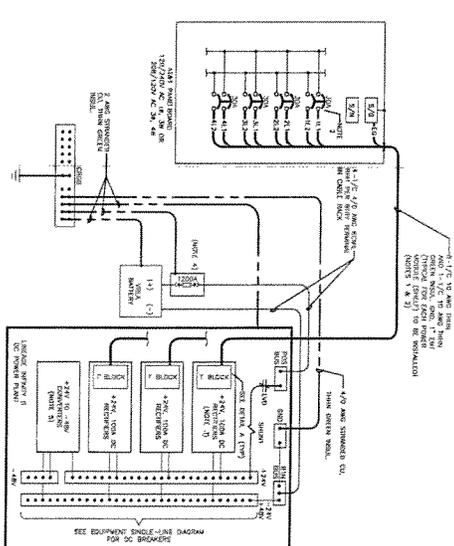
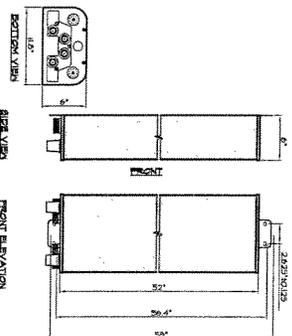
LTE FIBER TRUNK CONNECTION CODE

DETAIL 1405



ANTENNA MOUNTING DETAIL 1520

DUAL BAND DUAL POLE PANEL ANTENNA



TERMINAL BLOCK WIRING

1. EACH POWER MODEL (SPLIT) HAS (4) POSITIONS FOR RECEIVERS. POSITIVE (+) AND NEGATIVE (-) POSITIONS ARE IDENTIFIED BY OTHERS.
2. POSITIVE (+) AND NEGATIVE (-) POSITIONS ARE IDENTIFIED BY OTHERS.
3. POSITIVE (+) AND NEGATIVE (-) POSITIONS ARE IDENTIFIED BY OTHERS.
4. POSITIVE (+) AND NEGATIVE (-) POSITIONS ARE IDENTIFIED BY OTHERS.

ANTENNA MOUNTING DETAIL 1520

BECHTEL
BECHTEL COMMUNICATIONS
9200 BERGER RD.
COLUMBIA, MD 21046
PHONE: (443) 546-2309

at&t
7150 STANDARD GENE
HANDOVER, MD 21076

SITE NAME: PARLIAMENT HOUSE
SITE NUMBER: 2842
1512 SOUTH ARLINGTON RIDGE ROAD
ARLINGTON, VA 22202

Thruway
Engineering
10000 WOODBRIDGE BLVD
VALE, CO. 80530

NO	DATE	ISSUED FOR REVIEW	BY	CHK'D BY	DRWN BY	EN
1						

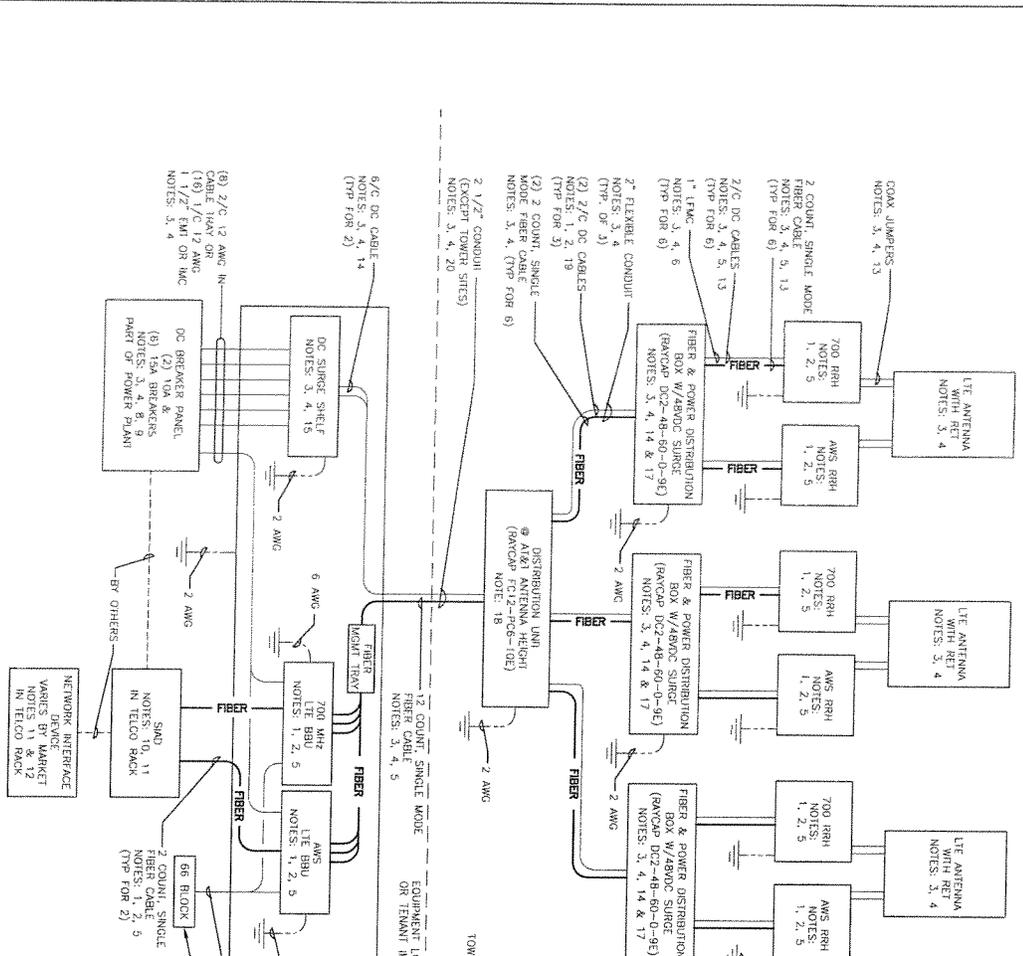
SCALE: AS NOTED

3-7-28 546
KATHREIN MOUNTING DET
DETAIL 1520

DETAILS AND ANTENNA SCHEDULE
JOS NEUBER
29-1-850
VA-2842-05

NO.	DATE	REVISIONS	BY	CHK	APP
1	10/10/14	ISSUED FOR REVIEW	BLN	JS	TS
2	10/10/14	REVISED	BLN	JS	TS

SCALE: AS NOTED	TEAM: KODOK	DRAWN BY: BLN	300 NUMBER	25811-430	DESIGNING NUMBER	VA-2042-09	REV	1
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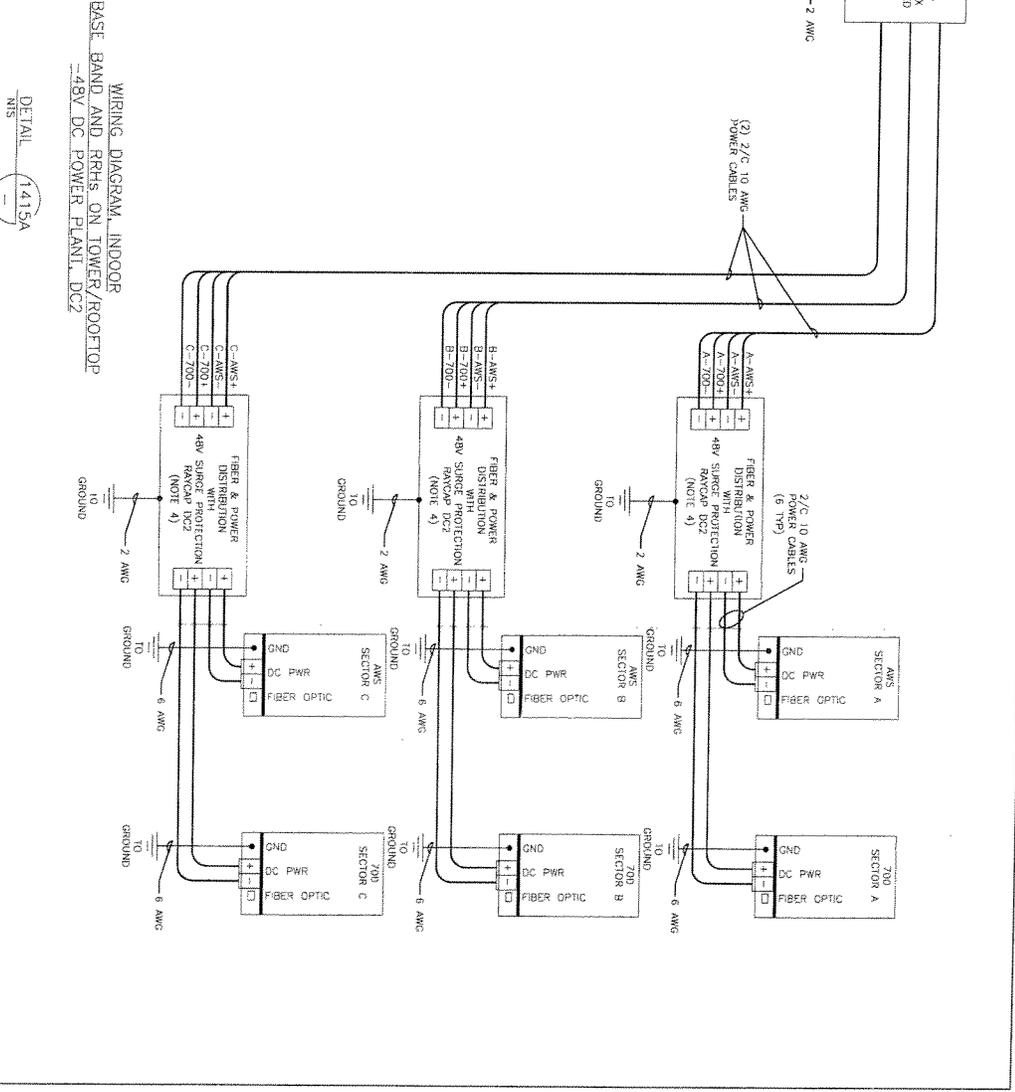
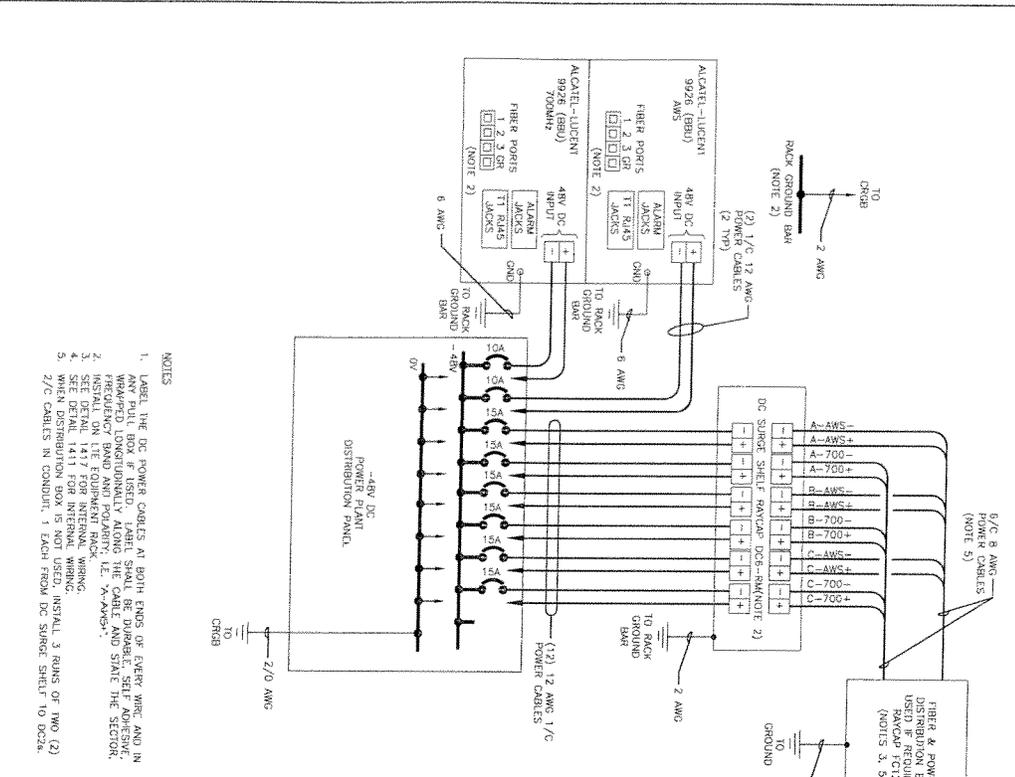


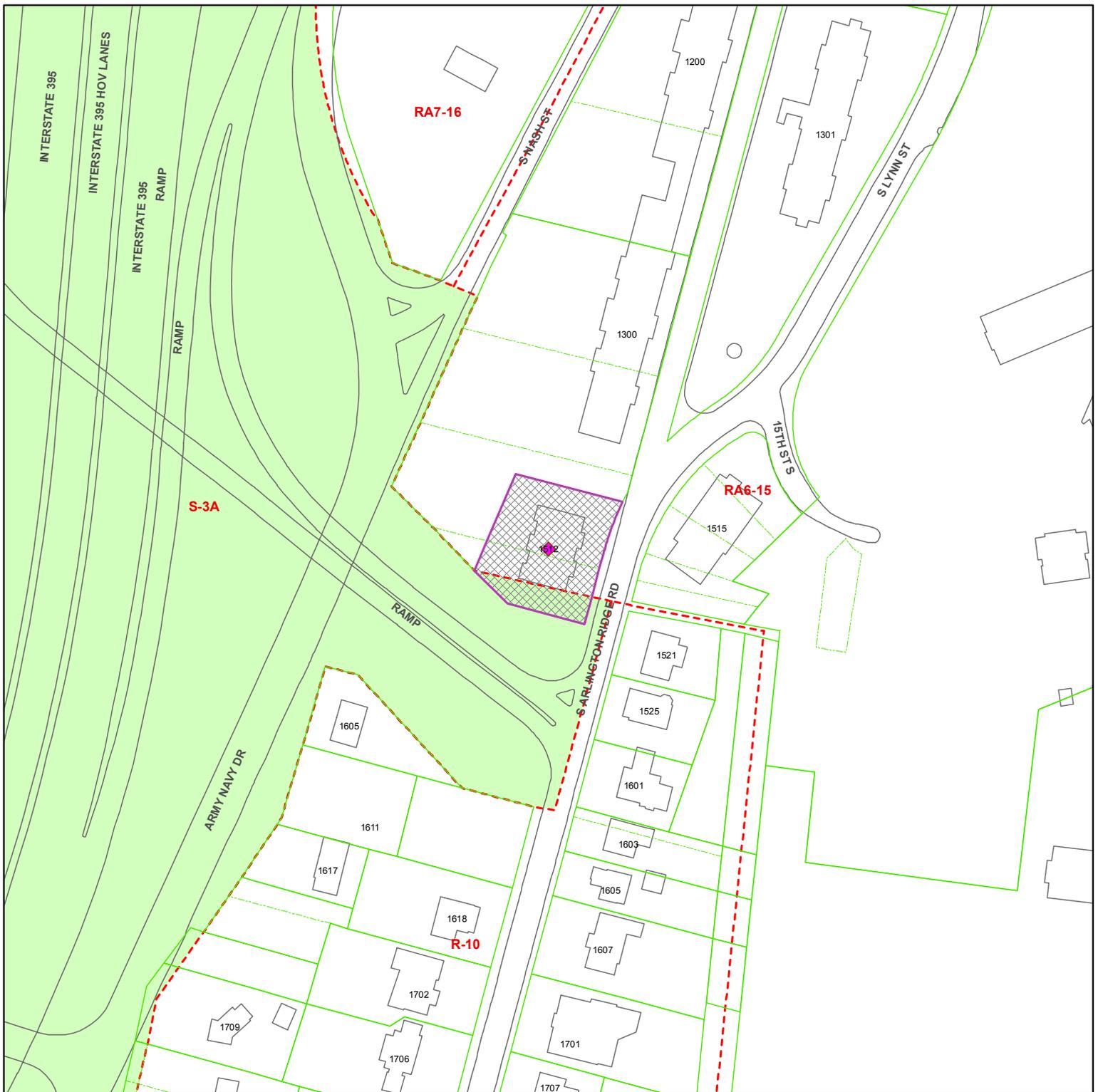
SYSTEM DIAGRAM, TOWER/ROOFTOP SITE WITH INDOOR BASE BAND ON GRADE AND RRH'S ON TOWER/ROOFTOP

DETAIL 1401A

- NOTES:**
- FURNISHED BY ALL.
 - INSTALLED BY ALL.
 - POWERED BY ALL.
 - INSTALLED BY BECHTEL.
 - FINAL CONNECTION BY ALL.
 - OPEN END OF CONDUIT TO BE LEFT WEATHERPROOFED UNTIL TERMINATION BY ALL.
 - PART OF DC POWER PLANT. BREAKERS SPECIFIED SEPARATELY.
 - BREAKERS TO BE TAGGED AND LOCKED OUT.
 - SDS IS FURNISHED AND INSTALLED BY OTHERS AND INCLUDES POWER CONNECTIONS AND FIBER TO THE UNIT.
 - WORK SHALL BE COMPLETED BY THE UNIT.
 - LEAVE COILED AND PROTECTED FOR ALL NETWORK INTERFACE DEVICES.
 - INTERNAL WIRING DIAGRAM.
 - FIBER AND POWER DISTRIBUTION BOX W/ABVD SURGE.
 - DC SURGE SHELF SHALL BE (RACK) BOX-48-60-RM. SEE DETAIL 1409 FOR INTERNAL WIRING DIAGRAM.
 - FIBER AND POWER DISTRIBUTION BOX SHALL BE (RACK) BOX-48-60-RM. SEE DETAIL 1409 FOR INTERNAL WIRING DIAGRAM.
 - SEE DETAIL 1417 FOR CABLE SIZES.
 - SEE DETAIL 1408 FOR CABLE SIZES.
 - CONDUIT TO BE USED ON A SELF-SUPPORT TOWER IF THE RRH IS MORE THAN 10' FROM THE DISTRIBUTION UNIT.
 - DC POWER CABLES SHALL BE UT LISTED FOR 90°C DRY/WET INSTALLATIONS.

NO.	DATE	BY	CHK	APP	DESCRIPTION
1	10/10/00	REVISIONS			REVISIONS
2	11/15/00	REVISIONS			REVISIONS
3	12/15/00	REVISIONS			REVISIONS
4	01/15/01	REVISIONS			REVISIONS
5	02/15/01	REVISIONS			REVISIONS
6	03/15/01	REVISIONS			REVISIONS
7	04/15/01	REVISIONS			REVISIONS
8	05/15/01	REVISIONS			REVISIONS
9	06/15/01	REVISIONS			REVISIONS
10	07/15/01	REVISIONS			REVISIONS
11	08/15/01	REVISIONS			REVISIONS
12	09/15/01	REVISIONS			REVISIONS
13	10/15/01	REVISIONS			REVISIONS
14	11/15/01	REVISIONS			REVISIONS
15	12/15/01	REVISIONS			REVISIONS
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99	12/15/08	REVISIONS			REVISIONS
100	01/15/09	REVISIONS			REVISIONS





U-3275-11-1

1512 S. Arlington Ridge Road

RPC: 35-007-001



 Case Location(s)

Scale: 1:1,974

Note: These maps are for property location assistance only.
They may not represent the latest survey and other information.