



ARLINGTON COUNTY, VIRGINIA

County Board Agenda Item Meeting of November 17, 2012

DATE: November 14, 2012

SUBJECT: U-2823-94-4 USE PERMIT AMENDMENT for a telecommunications facility and to amend Condition #1 of the existing use permit to increase the maximum size of permitted antennas for Sprint (at the Lee Pumping Station site); located at 2400 N Wakefield St (RPC #05-005-072).

Applicant:
Sprint

By:
Jack Andrews
10130 Donleigh Drive
Columbia, Maryland 21046

C.M. RECOMMENDATION:

Approve the use permit amendment, subject to all previously approved conditions, with revised Condition #1 as set forth below, and with an administrative review in one (1) year (November 2013), and with a review by the County Board in three (3) years (November 2015).

ISSUES: This is a use permit amendment to an existing telecommunications facility located on the Lee Pumping Station site (north of Lee Highway), and no issues have been identified.

SUMMARY: Sprint is proposing to replace three (3) antennas on the site with three (3) larger antennas. Furthermore, the applicant requests to amend Condition #1, which limits the size of cell phone antennas to 54" in length and 9" in width. The applicant proposes to upgrade the antennas to 4G technology which would expand the coverage that is necessary to meet its responsibility to provide wireless services under its federal licenses as well as to meet minimum coverage objectives. The proposed replacement antennas will be 72" long, 11.8" wide, and 7" deep. The applicant also proposes to add a dish antenna of 28" in diameter (located on the

County Manager:

BMD/GA

County Attorney:

[Handwritten signatures]

Staff: Marco Antonio Rivero, DCPHD, Planning Division

PLA-6310

6.

eastern side of the water tank). An equipment and power cabinet will also be replaced. Sprint is licensed by the Federal Communications Commission (FCC) and will operate in full compliance with FCC rules and regulations. The replacement and added antennas and microwave dish as well as the added ground equipment will not create an undue adverse visual impact on the surrounding area.

It is current administrative practice to allow for changes (within previously approved and new telecommunications facilities) to be subject to review and approval by the Zoning Administrator if they are in keeping with the intent of the use permit conditions and the provisions listed within the Arlington County Zoning Ordinance (ACZO). The requested changes to the site fall out of the scope of the current administrative practice because Condition #1 specifies the number and size of antennas allowed on the facility. However, because this is the type of change that is often allowed administratively, and is probably consistent with the intent of prior approvals, staff supports the request to amend Condition #1 of the use permit allowing flexibility regarding the number and size of antennas and for subsequent administrative review and approval for future changes. The Donaldson Run Civic Association, Old Dominion Civic Association, and the Analostan Home Owners Association were contacted about this use permit amendment request. Inquiries about comprehensively documenting emissions reports were raised and staff has addressed them accordingly. The applicant submitted the required 2012 annual radio frequency (RF) report as specified in Condition #2 of the use permit. The 2012 annual report is consistent with past annual reports and reports radio frequency emissions well below the maximum permitted by the FCC. Furthermore, the proposal is consistent with the [*Interim Guidelines for Telecommunications Facilities on County-Owned Property \(Telecommunications Guidelines\)*](#), which also applies to private properties and encourages the placement of antennas on existing structures. Staff would like to monitor the site, check on condition compliance, track progress on the required radio frequency emissions reports that are required under Condition #2 of the use permit, and continue to foster an effective, working relationship between the applicant and the community. Therefore, staff recommends the County Board approve the subject use permit amendment, subject to all previously approved conditions, with revised Condition #1 as set forth below, and with an administrative review in one (1) year (November 2013), and with a review by the County Board in three (3) years (November 2015).

BACKGROUND: The use permit was originally approved by the County Board in 1995. The original applicant, Sprint PCS, sold three of the antennas to Voicestream LLC (now T-Mobile) in 2000. The use permit was renewed subsequently with the most recent County Board renewal in July 2011. The use permit amendment was deferred in October 2012, in order to give the surrounding civic associations (Donaldson Run and Old Dominion) ample notice of the proposed changes to Condition #1 allowing greater flexibility for the number and size of the antennas at this telecommunications facility and for subsequent administrative review and approval for future changes. A new lease agreement between the applicant and the County has been signed to extend the telecommunications use at this site to February 2018 (the current lease agreement was set to expire in February 2013).

The following provides additional information about the site and location

Site: The site is located at the Lee Pumping Station bound on the north by 25th Street North and North Vernon Street, 24th Street North and single family homes on the south, North Vermont Street and single family homes on the east and North Wakefield Court and townhouses on the west.

Zoning: The site is zoned [“S-3A” Special Districts](#).

Land Use: The site is designated on the [General Land Use Plan \(GLUP\)](#) as “Public”.

Neighborhood: The site is located within the Old Dominion Civic Association and is adjacent to the Donaldson Run Civic Association. In addition to the aforementioned civic associations, the Analostan Home Owners Association was contacted about this use permit amendment request. A resident of the Donaldson Run area requested information regarding the present radiation emissions be checked in a comprehensive manner. Furthermore, by request of the Donaldson Run Civic Association president, information regarding the difference between smaller and larger antennas and whether or not this application was part of an overall upgrade to the site was provided. Staff also provided information to the civic associations regarding the County’s [Interim Guidelines for Telecommunications Facilities on County-Owned Property \(Telecommunications Guidelines\)](#) and federal law which prohibits localities from basing a decision on the environmental effects of radio frequency emissions if the facility complies with FCC regulations. The applicant provided information regarding the previous emissions reports and documented the most recent one from July 2012. The proposed antennas and equipment will be installed, maintained, and used in compliance with Federal Aviation Administration (FAA) and Federal Communications Commission (FCC) standards, as noted by a certified engineer’s letter provided by the applicant. This information was relayed to all civic association presidents, the Analostan Home Owners Association and the Donaldson Run area resident. No other comments have been provided as of the date of this report and positions by the aforementioned civic associations have not been provided.



Source: Bing™ Maps

**Location of the Sprint PCS/Lee Pumping Station
Telecommunications Facility: 2400 N Wakefield St**

DISCUSSION:

Project Description and Revised Condition #1

Sprint is proposing to replace three (3) antennas on the site with three (3) larger antennas. Furthermore, the applicant requests to amend Condition #1, which limits the size of cell phone antennas to 54” in length and 9” width. The applicant proposes to upgrade the antennas to 4G technology, and the proposed replacement antennas will be 72” long, 11.8” wide, and 7” deep. The applicant also proposes to add a dish antenna of 28” in diameter (located on the eastern side of the water tank). The antennas are currently mounted on the water tank’s hand rail area. The radial center height (RAD) for the existing and proposed antennas is 148’ above ground level. There is a 1.5’ difference in length from the existing and proposed antennas, and staff does not foresee an adverse visual impact related to the new antennas and microwave dish. In addition, one (1) existing equipment cabinet and one (1) existing power cabinet will be replaced. The new power cabinet will consist of one (1) 60ECv2 battery cabinet. The new cabinets will be located inside the shelter.

The property is zoned [“S-3A” Special Districts](#). This use is allowed as a conditional use under Arlington County Zoning Ordinance (ACZO) Section §3.A.10.b. Furthermore, the [Interim Guidelines for Placement of Telecommunications Facilities on County-Owned Property \(Telecommunications Guidelines\)](#) was used to evaluate the application. The *Telecommunications Guidelines* offers direction in the way of design, visual impact, and compliance with Federal Communications Commission (FCC) regulations, among other things. The *Telecommunications Guidelines* can be applied to telecommunications facilities on privately

owned property as well as County-owned property. The *Telecommunications Guidelines* encourages the location of new antennas on existing structures, as opposed to constructing a new pole. The proposed antennas and added ground equipment meet these criteria. Attached are plans depicting the location and general appearance of the proposed antennas and equipment.

It is current administrative practice to allow for changes (within previously approved and new telecommunications facilities) to be subject to review and approval by the Zoning Administrator if they are in keeping with the intent of the use permit conditions and the provisions listed within the Arlington County Zoning Ordinance (ACZO). The requested changes to the site fall out of the scope of the current administrative practice because Condition #1 specifies the number and size of antennas allowed on the facility. Therefore, staff supports the request to amend Condition #1 of the use permit allowing flexibility regarding the number and size of antennas and for subsequent administrative review and approval for future changes. The use permit amendment is not in conflict with the standards for use permit approval. The proposed larger antennas, the dish antenna, and related telecommunications equipment will not (1) affect adversely the health or safety of persons residing or working in the neighborhood of the proposed use; (2) be detrimental to the public welfare or injurious to property or improvements in the neighborhood; (3) be in conflict with the purposes of the master plans of the County. The replacement and additional antennas will be installed at the same radiation center and mounting location as the existing antennas. The larger size of the panel antennas is necessary to accommodate for additional (or larger) frequency spectrums. The technical specifications displayed in the applicant's drawings show that a single antenna will accommodate both the 800 and 1900 MHz frequency ranges. It takes at least double the amount of the smaller antennas to accommodate the 4G frequency ranges. Therefore, the change in antenna size is necessary to accommodate for the new technology and to prevent greater visual impacts which may occur with more antennas. Arlington County Department of Technology Services (DTS) stated that they support telecommunications upgrades on this site that accommodate more advanced technologies, including upgrades to 4G technology.

Radio frequency (RF) Reports

The applicant submitted the required 2012 annual radio frequency (RF) report as specified in Condition #2 of the use permit. The 2012 annual report is consistent with past annual reports and reports radio frequency emissions well below the maximum permitted by the FCC. A supplemental statement (attached to this report) was also prepared by an independent engineer from Alcatel-Lucent (a company which focuses on fixed, mobile, and converged networking hardware, Internet Protocol (IP) technologies, software, and other services) on behalf of Sprint explaining how the proposed facility would impact RF emissions on the current site. The statement prepared clarifies that the "equipment installed will be installed, erected, maintained and used in compliance with all approvable Federal, State and Local regulations, including but not limited to: radio frequency emissions regulations set forth in the 1996 Federal Communications Act, applicable regulations administered by the Federal Aviation Administration (FAA) and FCC". The RF emissions from the proposed antennas will not exceed Federal, State, or Local standards when combined with all other existing facilities on the site and will not interfere with other wireless structures and other carriers at this location. Federal law

prohibits localities from basing a decision on the environmental effects of radio frequency emissions if the facility complies with FCC regulations.

CONCLUSION: The proposed use permit amendment is compliant with the County's *Telecommunications Guidelines* and with FCC regulations, as well as with Zoning requirements. The proposed antennas and related equipment additions will not create an undue, adverse visual impact on the area. Furthermore, staff supports amending Condition #1 to include greater flexibility regarding the number and size of antennas and requiring that any future installation of antennas on the property shall be subject to review and approval by the Zoning Administrator. Staff would like to monitor the site, check on condition compliance, track progress on the required radio frequency emissions reports that are required under Condition #2 of the use permit, and continue to foster an effective, working relationship between the applicant and the community. Therefore, staff recommends the County Board approve the subject use permit amendment, subject to all previously approved conditions, with revised Condition #1 as set forth below, and with an administrative review in one (1) year (November 2013), and with a review by the County Board in three (3) years (November 2015).

Revised Condition #1:

1. The applicant agrees to ~~limit the number of antennae to six (6) panel antennae (not to exceed 54 inches in length by 9 inches in width)~~ install all new antennas and related equipment as shown on the application package dated August 6, 2012 (for Sprint) and to maintain any other existing telecommunications antennas and related equipment on-site intact. New antennas shall be mounted at a radial center (RAD) height no greater than 148' above ground level and shall not be larger than 80 inches in length and 16 inches in width. All antennae shall be mounted on the catwalk railing of the water tower and shall be painted to match the color of the tank. No antennae are to be installed on the top of the tank or on the tank's legs or support structure. The applicant agrees that any future installation of antennas on this property that are in keeping with the intent of the use permit conditions and all Federal, State, and Local regulations shall be subject to review, and approval, by the Zoning Administrator. The Zoning Administrator shall approve the installation of such antennas and related equipment if he or she finds that such antennas and related equipment will (1) achieve satisfactory radio frequency ranges as specified by the Federal Communications Commission (FCC) standards which are not injurious or detrimental to the public welfare, via a radio frequency/electromagnetic emissions report upon submission of the administrative change request (2) the proposed antennas are mounted at a RAD height no greater than 148' above ground level on the same or similar mounts located on the catwalk railing, and (3) that the first emissions test for any new antennas shall be submitted one (1) month after their installation to the Zoning Administrator, the Presidents of the Donaldson Run and Old Dominion Civic Associations, and the Director of the Emergency Communications Center for their records. If at any time the applicant's operations cause it to exceed the standards specified by the FCC, then the applicant agrees to immediately cease operations until the violation can be corrected.

PREVIOUS COUNTY BOARD ACTIONS:

- January 7, 1995 Approved use permit (U-2823-94-4) for installation of six panel antennae not exceeding 54 inches in length by 9 inches in width on the existing water tower and two equipment cabinets, subject to conditions with a review in one (1) year (January 1996).
- January 20, 1996 Renewed use permit (U-2823-94-4) for operation of six panel antennae on the existing water tower and two equipment cabinets, subject to all previous conditions with a review in three (3) years (January 1999).
- January 27, 1999 Renewed use permit (U-2823-94-4) for operation of six panel antennae on the existing water tower and two equipment cabinets, subject to all previous conditions and a revised Condition #2, with a review in three (3) years (January 2002).
- January 26, 2002 Renewed use permit (U-2823-94-4) for operation of six panel antennae on the existing water tower and two equipment cabinets, subject to all previous conditions and a revised Condition #2, with a review in three (3) years (January 2005).
- April 16, 2005 Renewed use permit (U-2823-94-4) for operation of six panel antennae on the existing water tower and two equipment cabinets, subject to all previous conditions, with a review in one (1) year (April 2006).
- April 22, 2006 Deferred use permit (U-2823-94-4) review for operation of six panel antennae on the existing water tower and two equipment cabinets to July 8, 2006.
- July 8, 2006 Renewed use permit (U-2823-94-4) for operation of six panel antennae on the existing water tower and two equipment cabinets, subject to all previous conditions, with a review in one (1) year (July 2007).

July 7, 2007 Renewed use permit (U-2823-94-4) for operation of six panel antennae on the existing water tower and two equipment cabinets, subject to all previous conditions, with a review in one (1) year (July 2008).

July 19, 2008 Renewed use permit (U-2823-94-4) for operation of six panel antennae on the existing water tower and two equipment cabinets, subject to all previous conditions, with a review in two (2) years (July 2010).

September 29, 2009 Renewed use permit (U-2823-94-4) for operation of six panel antennae on the existing water tower and two equipment cabinets, subject to all previous conditions, with a County Board review in ten (10) months (July 2010).

July 10, 2010 Renewed use permit (U-2823-94-4) for operation of six panel antennae on the existing water tower and two equipment cabinets, subject to all previous conditions, a revised condition #6, and with a County Board review in one (1) year (July 2011).

July 11, 2011 Renewed use permit (U-2823-94-4) for operation of six panel antennae on the existing water tower and two equipment cabinets, subject to all previous conditions, and with a review by the County Board in February 2013 (the proposed date coincides with the cell phone providers' lease renewal).

October 20, 2012 Deferred a use permit amendment (U-2823-94-4) to amend Condition #1 re: maximum size of permitted antennas and to permit removal of existing antennas and replacement with new antennas for Sprint to the November 17, 2012 County Board meeting.

Approved Conditions:

1. The applicant agrees to limit the number of antennae to six (6) panel antennae (not to exceed 54 inches in length by 9 inches in width). All antennae shall be mounted on the catwalk railing of the water tower and shall be painted to match the color of the tank. No antennae are to be installed on the top of the tank or on the tank's legs or support structure.
2. The electromagnetic emissions from the applicant's antennae shall at all times comply with the ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 KHz to 300 GHz, as adopted by the Federal Communications Commission in its Second Order and Report on Personal Communications Systems (Adopted: September 23, 1993 in Docket 90-314). The applicant agrees to have an independent engineering firm conduct, at its sole costs and expense, field measurements of its electromagnetic emissions. The first test shall be conducted within 30 days after the applicant's equipment is installed and becomes operational. Thereafter, the test shall be conducted annually from the approval date of the special exception use permit (January 7, 1995). True and correct copies of the field measurement, certified by an engineer licensed to practice in the Commonwealth of Virginia, shall be submitted to the Zoning Administrator, the Presidents of the Donaldson Run and Old Dominion Civic Associations, and the Director of the Emergency Communications Center within 30 days of the test completion no later than June 1st of each year. If at any time the applicant's operations cause it to exceed the standards set forth in the above ANSI standard, then the applicant agrees to immediately cease operations until the violation can be corrected. The applicant agrees not to continue operations until such time as the system is operating within the applicable standard.
3. The applicant agrees to limit its use of the Lee Pumping Station to personal communications services operating within its FCC license.
4. The applicant agrees to limit access to the Lee Pumping Station site to bi-monthly maintenance and repair of equipment. Service vehicles shall be limited to vehicles no larger than a one (1) ton truck or van.
5. The applicant and County representatives, at the applicant's sole expense, shall make yearly inspections of the applicant's antenna mounts and other equipment installation to ensure the antennae and equipment are installed in accordance with the plans and specifications approved by the County. The applicant agrees to immediately repair any deficiencies found.
6. The applicant agrees to remove any equipment not in use or operation from the water tower. The applicant further agrees to place waterproof identification labels on the existing antennas and related facilities, including cables and cabinets inside and outside the Equipment Room, located at the site, by or before August 31, 2010.

7. The applicant agrees to install its equipment and antennae and to complete the relocation of County equipment, as provided for in the Lease Agreement, within 20 working days after commencement of the work. The applicant agrees to limit work to Mondays through Fridays from 8:00 a.m. to 6:00 p.m.
8. The applicant shall establish and identify a liaison who shall be available to address any concerns regarding its operations at the Lee Pumping Station. The name and telephone number of the liaison shall be sent to the Donaldson Run Civic Association and the Old Dominion Civic Association and to the Zoning Administrator.

Sprint
VERION

7844 SATELLITE AVENUE, SUITE 100
DALLAS, TEXAS 75249
OFFICE: (416) 282-7400
FAX: (416) 282-7400

Alcatel-Lucent

5200 GREENWAY LANE, SUITE 110
DALLAS, TEXAS 75249
OFFICE: (416) 282-7400
FAX: (416) 282-7400

ADVANTAGE ENGINEERS

5000 COLLETT ROAD, SUITE 100
DALLAS, TEXAS 75249
OFFICE: (416) 282-7400
FAX: (416) 282-7400

NO.	REVISIONS
1	ISSUED FOR PERMITS
2	ISSUED FOR PERMITS
3	ISSUED FOR PERMITS
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ANTENNA PLAN & ELEVATION

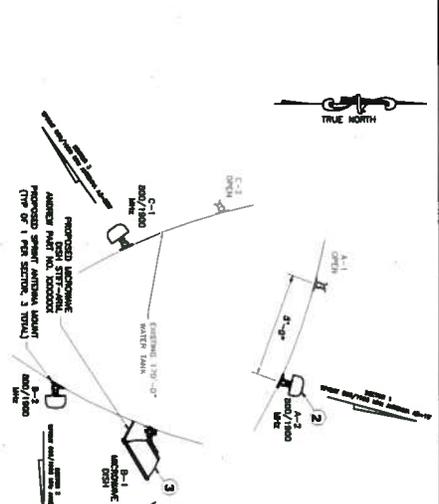
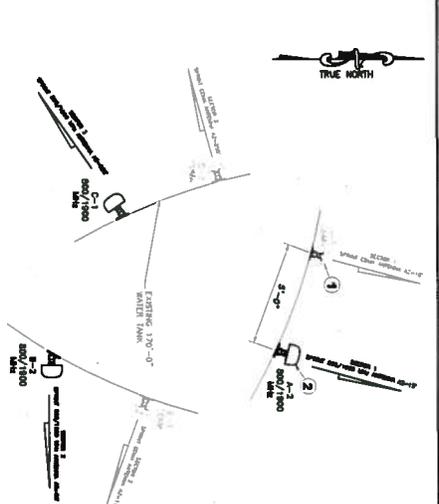
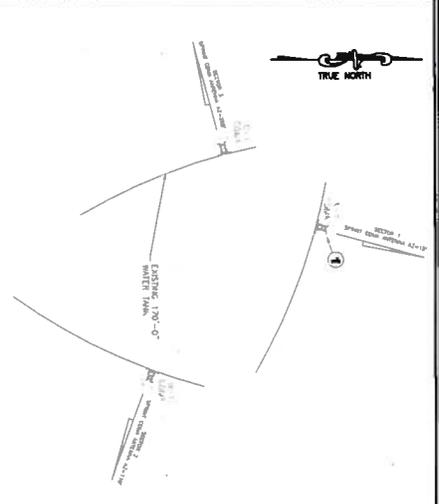
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SHEET NO. 8 OF 13

PROJECT NAME:
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WATER TANKS

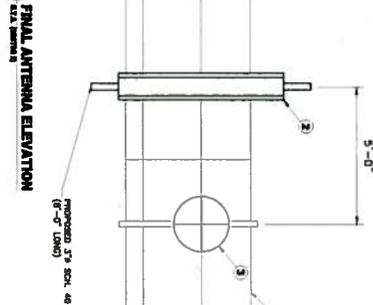
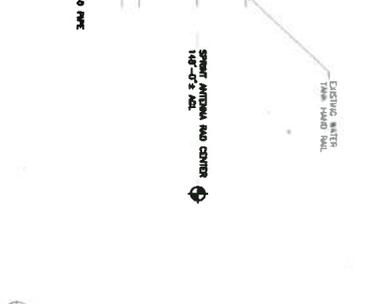
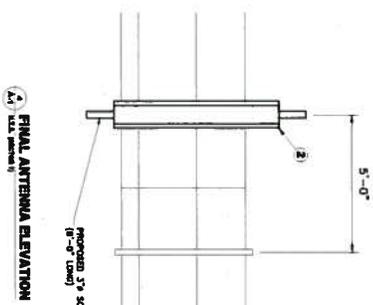
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2400 MONTH WATERSIDE COURT
ARLINGTON, VIRGINIA 22207

SHEET NO. 8 OF 13

DATE: 11/18/11
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SHEET NO. 8 OF 13



**ANTENNA MOUNT DETAIL
TO BE ADDED UPON
COMPLETION OF
STRUCTURAL ANALYSIS**



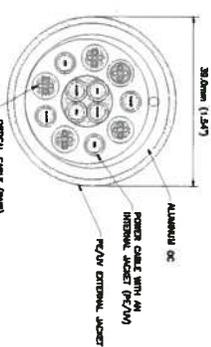
- ANTENNA LEGEND**
- EXISTING SPURT COOL ANTENNA (TYPE OF 1 PER SECTION, 3 TOTAL)
 - PROPOSED SPURT ANTENNA (TYPE OF 1 PER SECTION, 3 TOTAL)
 - PROPOSED SPURT VISION IMPROVEMENT (SECTION 2 ONLY)

- NOTES:**
- TYPE AND SIZE OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTH. REFER TO GENERAL CABLE CONNECTION TO VERIFY ACTUAL MANUFACTURER'S ACTUAL CABLES EXCEED ESTIMATED LENGTH.
 - CONNECTION SHALL VERIFY THE DIMENSIONS OF EACH ANTENNA WITH A DIGITAL LEVEL.
 - CONNECTION TO CONDUIT COULD COMING FROM TO
 - CABLE HANGING SHALL BE 2" WIDE ON THE MAIN LINE (6 WIDE MAX) WITH WITH 1" SPACE. SPURT COOL WANTS 2" SPACING BETWEEN/NEARBY. SPURT SECTION COULD NEXT TO DPO CONNECTOR.

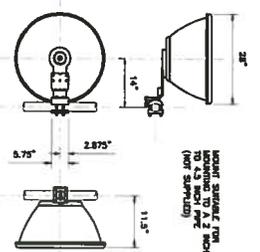
NOTE:
PLEASE REFER TO MOST RECENTLY APPROVED CONSTRUCTION PERMITS TO VERIFY PERMITS TO

ANTENNA AND COAX CABLE SCHEDULE

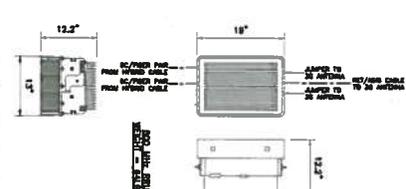
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ALPHA	A-1	1B	14'-6"	DC RIGID	DPH11090-1-A	3'	N/A	1-1/4" RIGID	210'-0"	1 BROWN
	A-2	1B	14'-6"	PROPOSED	APVSP18-C-A20	100' MAX	1-1/4" RIGID	1-1/4" RIGID	210'-0"	1 BROWN
BETA	B-1	1B	14'-6"	DC RIGID	DPH11090-1-A	3'	N/A	1-1/4" RIGID	210'-0"	2 BROWN
	B-2	1B	14'-6"	PROPOSED	APVSP18-C-A20	100' MAX	1-1/4" RIGID	1-1/4" RIGID	210'-0"	2 BROWN
GAMMA	C-1	237	14'-6"	DC RIGID	APVSP18-C-A20	100' MAX	1-1/4" RIGID	1-1/4" RIGID	210'-0"	3 BROWN
	C-2	237	14'-6"	DC RIGID	DPH11090-1-A	3'	N/A	1-1/4" RIGID	210'-0"	3 BROWN
NOTE: PLEASE REFER TO MOST RECENTLY APPROVED RFI'S SHEET UPLOADED IN "RFI" FROM TO CONSTRUCTION SYMBOL.										
TOTAL 1-1/4" RIGID COAX										
210'-0"										



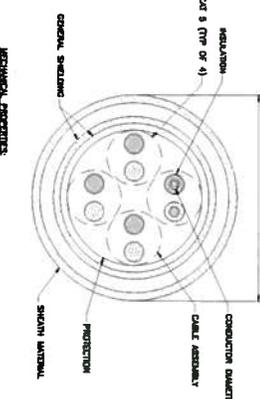
MECHANICAL SPECIFICATIONS:
 WEIGHT: 8.00 LB/100 FT (3.63 kg/100 m)
 LENGTH: 100 FT (30.48 m)
 DIAMETER: 1.50 IN (38.1 mm)
 RECOMMENDED/AVAILABLE CABLES: 1500-120 (1.50in-40)



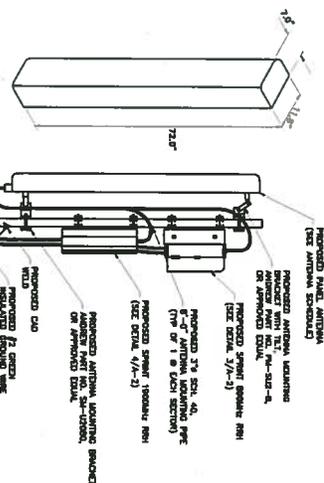
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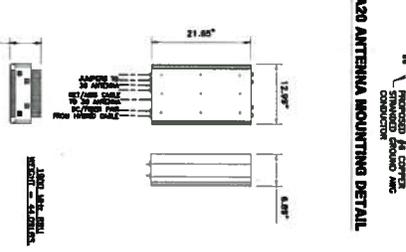
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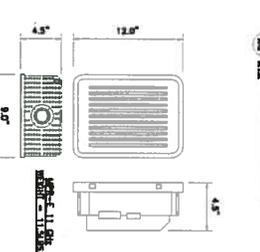
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7000 SANDHILL, MONROE, MISSISSIPPI 39216
 COLUMBIA, MARYLAND 21046
 FREDERICK, MARYLAND 21704
 FREDERICK, MISSISSIPPI 39224

Alcatel-Lucent

5200 GARDEN LANE, SUITE 110
 COLUMBIA, MARYLAND 21046
 FREDERICK, MARYLAND 21704
 FREDERICK, MISSISSIPPI 39224

ADVANTAGE ENGINEERS

600 EQUILIBRIUM AVENUE, SUITE 100
 601 EQUILIBRIUM, SUITE 100
 FREDERICK, MISSISSIPPI 39224
 FREDERICK, MARYLAND 21704

SCHEDULE OF WORK

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19	PROPOSED	APVSP18-C-A20
20	PROPOSED	APVSP18-C-A20
21	PROPOSED	APVSP18-C-A20
22	PROPOSED	APVSP18-C-A20
23	PROPOSED	APVSP18-C-A20
24	PROPOSED	APVSP18-C-A20
25	PROPOSED	APVSP18-C-A20
26	PROPOSED	APVSP18-C-A20
27	PROPOSED	APVSP18-C-A20
28	PROPOSED	APVSP18-C-A20
29	PROPOSED	APVSP18-C-A20
30	PROPOSED	APVSP18-C-A20
31	PROPOSED	APVSP18-C-A20
32	PROPOSED	APVSP18-C-A20
33	PROPOSED	APVSP18-C-A20
34	PROPOSED	APVSP18-C-A20
35	PROPOSED	APVSP18-C-A20
36	PROPOSED	APVSP18-C-A20
37	PROPOSED	APVSP18-C-A20
38	PROPOSED	APVSP18-C-A20
39	PROPOSED	APVSP18-C-A20
40	PROPOSED	APVSP18-C-A20
41	PROPOSED	APVSP18-C-A20
42	PROPOSED	APVSP18-C-A20
43	PROPOSED	APVSP18-C-A20
44	PROPOSED	APVSP18-C-A20
45	PROPOSED	APVSP18-C-A20
46	PROPOSED	APVSP18-C-A20
47	PROPOSED	APVSP18-C-A20
48	PROPOSED	APVSP18-C-A20
49	PROPOSED	APVSP18-C-A20
50	PROPOSED	APVSP18-C-A20

RF EQUIPMENT DETAILS & ANTENNA SCHEDULE

DATE: 11/11/11
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 SCALE: [Scale]
 JOB NO: [Job No]
 PROJECT: [Project Name]

A-2

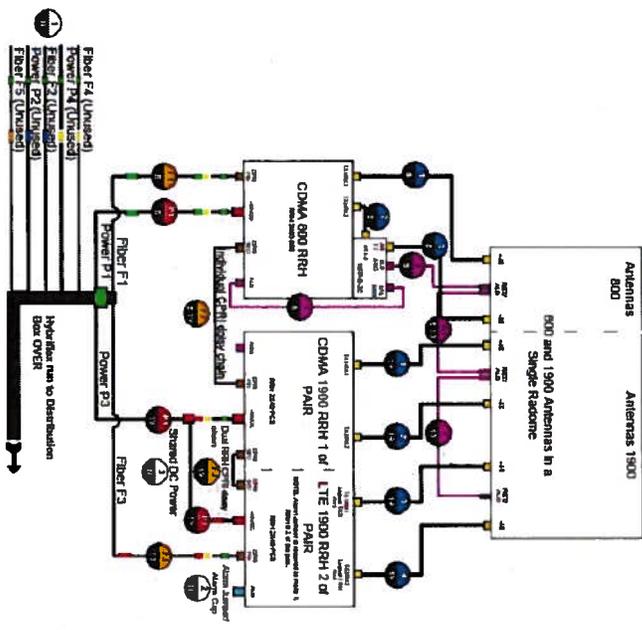
RFI-R DETAIL

LEE PLUMBING STATION
 WATER TANKS
 CROSSCUT 179
 2940 MOUNTAIN VIEW AVENUE, SUITE 100
 ARLINGTON, VIRGINIA 22207

PHILLIP SUTHERLAND, P.E.
 11111 WOODBURN AVENUE, SUITE 100
 FREDERICK, MISSISSIPPI 39224

TOWER TOP SCENARIO 2

800 AND SINGLE 1900 RRH PAIR WITH SINGLE 800/1900 RAOOME ANTENNA (800 HOSTING 1900 RET)



RF PLUMBING DIAGRAM

Power Feed Polarity Definition:
 Power Feed Polarity (P1, P2, P3)
 Backwards Strip Return

NOTE: For power feed use the same Hydraulic Code color designator as the fiber.

Hybrid Color Code Legend:
 All Pair 1 - F1e Group P1 (Green)
 All Pair 2 - F2e Group P2 (Yellow)
 All Pair 3 - F3e Group P3 (Blue)
 All Pair 4 - F4e Group P4 (White)
 All Pair 5 - F5e Group P5 (Purple)

HYBRID COLOR CODE

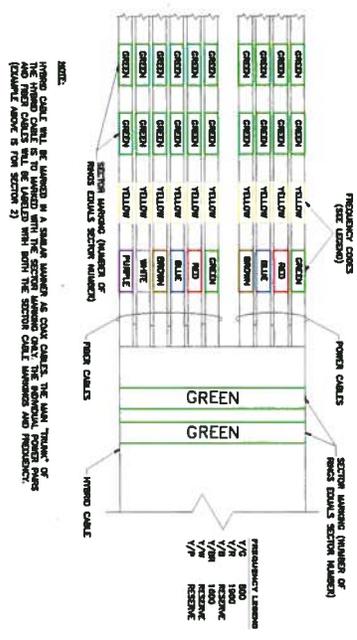
HYBRID FLEX COLOR CODE

LEGEND FOR THIS SCENARIO

- Antenna (Hybrid) Cable 1
- Backwards Strip Return
- DCM Fiber F1 & Power P1
- DCM Fiber F2 & Power P2
- 1900 Ret F1
- DCM Fiber F3 & Power P3
- DCM Fiber F4 & Power P4
- DCM Fiber F5

INSTALLATION INSTRUCTIONS AND NOTES:

- ALL CONNECTIONS AND GROUND WIRING SHALL BE WIRE BUNDLED USING 1/2" DIA. EMT CONDUIT. THE INSTALLATION MUST BE DONE IN ACCORDANCE WITH THE CONDITIONS OF THE FIELDWORK AGREEMENTS (SPECIFIC TO COUNTRY).
- THE COAX CABLE CONNECTION ON DISCONNECTED INTO COAX SYSTEM, 29K, WIRE ELECTRICAL TAP, WITH APPROXIMATELY 1" AND EXTENDING FROM THE CONNECTION IN 2" AS SHOWN IN THE DRAWING.
- THE COAX CABLE CONNECTION ON DISCONNECTED INTO COAX SYSTEM, 29K, WIRE ELECTRICAL TAP, WITH APPROXIMATELY 1" AND EXTENDING FROM THE CONNECTION IN 2" AS SHOWN IN THE DRAWING.
- THE COAX CABLE CONNECTION ON DISCONNECTED INTO COAX SYSTEM, 29K, WIRE ELECTRICAL TAP, WITH APPROXIMATELY 1" AND EXTENDING FROM THE CONNECTION IN 2" AS SHOWN IN THE DRAWING.



HYBRID CABLE COLOR CODING DETAIL

Sprint

7848 SALEM BL, WASHINGTON, VA 22191
 (703) 261-2211
 FAX: (703) 261-2211

Aicatel • Lucent

8248 GERRARD LANE, SUITE 110
 WASHINGTON, VA 22191
 (703) 261-2211
 FAX: (703) 261-2211

ADVANTAGE ENGINEERS

11111 WASHINGTON BLVD
 WASHINGTON, VA 22191
 (703) 261-2211
 FAX: (703) 261-2211

REVISIONS TO THIS DRAWING

NO.	DATE	DESCRIPTION OF REVISION
1	01/16/12	ISSUE FOR CONSTRUCTION
2	01/16/12	ISSUE FOR CONSTRUCTION
3	01/16/12	ISSUE FOR CONSTRUCTION
4	01/16/12	ISSUE FOR CONSTRUCTION

RF PLUMBING DIAGRAM

DRAWING TITLE

DATE

SCALE

DESIGNER

CHECKER

APP. NO.

APPROVED

A-3

LEE PLUMBING STATION

WATER TANKS

DCSXC179

2400 MONTHLY WATERSHED COURT
ARLINGTON, VIRGINIA 22207

PROJECT INFORMATION

SHEET NO. 3 OF 13



7868 BALDWIN INDUSTRIAL DRIVE SUITE 100
 CHARLOTTE, NC 28217
 PHONE: (410) 282-7200
 FAX: (410) 282-3200

Alcatel-Lucent
 2000 EASTERN LAKE DRIVE N
 CHARLOTTE, NC 28217
 PHONE: (410) 282-3200
 FAX: (410) 282-3200

ADVANTAGE
ENG'G
 1000 EAST WYOMING AVENUE
 SUITE 100
 CHARLOTTE, NC 28202
 PHONE: (704) 363-2200
 FAX: (704) 363-2200

SCHEDULE OF MATERIALS

NO.	DESCRIPTION	QTY	UNIT
1	1/2" DIA. 1/2" THICK	1	EA
2	1/2" DIA. 1/2" THICK	1	EA
3	1/2" DIA. 1/2" THICK	1	EA
4	1/2" DIA. 1/2" THICK	1	EA
5	1/2" DIA. 1/2" THICK	1	EA
6	1/2" DIA. 1/2" THICK	1	EA
7	1/2" DIA. 1/2" THICK	1	EA
8	1/2" DIA. 1/2" THICK	1	EA
9	1/2" DIA. 1/2" THICK	1	EA
10	1/2" DIA. 1/2" THICK	1	EA
11	1/2" DIA. 1/2" THICK	1	EA
12	1/2" DIA. 1/2" THICK	1	EA
13	1/2" DIA. 1/2" THICK	1	EA
14	1/2" DIA. 1/2" THICK	1	EA
15	1/2" DIA. 1/2" THICK	1	EA
16	1/2" DIA. 1/2" THICK	1	EA
17	1/2" DIA. 1/2" THICK	1	EA
18	1/2" DIA. 1/2" THICK	1	EA
19	1/2" DIA. 1/2" THICK	1	EA
20	1/2" DIA. 1/2" THICK	1	EA
21	1/2" DIA. 1/2" THICK	1	EA
22	1/2" DIA. 1/2" THICK	1	EA
23	1/2" DIA. 1/2" THICK	1	EA
24	1/2" DIA. 1/2" THICK	1	EA
25	1/2" DIA. 1/2" THICK	1	EA
26	1/2" DIA. 1/2" THICK	1	EA
27	1/2" DIA. 1/2" THICK	1	EA
28	1/2" DIA. 1/2" THICK	1	EA
29	1/2" DIA. 1/2" THICK	1	EA
30	1/2" DIA. 1/2" THICK	1	EA
31	1/2" DIA. 1/2" THICK	1	EA
32	1/2" DIA. 1/2" THICK	1	EA
33	1/2" DIA. 1/2" THICK	1	EA
34	1/2" DIA. 1/2" THICK	1	EA
35	1/2" DIA. 1/2" THICK	1	EA
36	1/2" DIA. 1/2" THICK	1	EA
37	1/2" DIA. 1/2" THICK	1	EA
38	1/2" DIA. 1/2" THICK	1	EA
39	1/2" DIA. 1/2" THICK	1	EA
40	1/2" DIA. 1/2" THICK	1	EA
41	1/2" DIA. 1/2" THICK	1	EA
42	1/2" DIA. 1/2" THICK	1	EA
43	1/2" DIA. 1/2" THICK	1	EA
44	1/2" DIA. 1/2" THICK	1	EA
45	1/2" DIA. 1/2" THICK	1	EA
46	1/2" DIA. 1/2" THICK	1	EA
47	1/2" DIA. 1/2" THICK	1	EA
48	1/2" DIA. 1/2" THICK	1	EA
49	1/2" DIA. 1/2" THICK	1	EA
50	1/2" DIA. 1/2" THICK	1	EA

DATE: 11/15/12
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

ELECTRICAL DETAILS

E-2

LEE PLUMBING STATION
 WATER TANKS
 SITE NUMBER:
 D0203XC179
 2400 NORTH WATERFIELD COURT
 ARLINGTON, VIRGINIA 22207

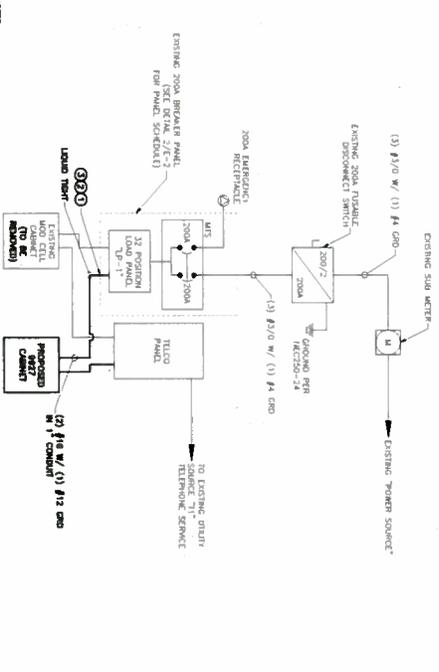
SHEET NO. 18 OF 13

DATE: 11/15/12
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

PANEL CIRCUIT LOAD SCHEDULE

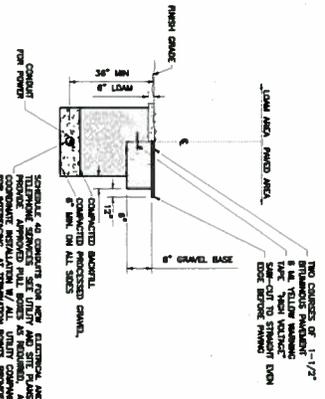
CIRCUIT NO.	CIRCUIT DESCRIPTION	LOAD		CIRCUIT TYPE	CIRCUIT CLASSIFICATION	CIRCUIT LOCATION	CIRCUIT NOTES
		WATTAGE	VOLTS				
1	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 101	
2	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 102	
3	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 103	
4	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 104	
5	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 105	
6	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 106	
7	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 107	
8	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 108	
9	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 109	
10	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 110	
11	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 111	
12	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 112	
13	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 113	
14	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 114	
15	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 115	
16	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 116	
17	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 117	
18	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 118	
19	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 119	
20	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 120	
21	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 121	
22	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 122	
23	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 123	
24	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 124	
25	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 125	
26	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 126	
27	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 127	
28	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 128	
29	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 129	
30	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 130	
31	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 131	
32	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 132	
33	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 133	
34	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 134	
35	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 135	
36	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 136	
37	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 137	
38	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 138	
39	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 139	
40	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 140	
41	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 141	
42	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 142	
43	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 143	
44	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 144	
45	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 145	
46	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 146	
47	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 147	
48	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 148	
49	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 149	
50	1/2" DIA. 1/2" THICK	1000	120	Branch	General	Room 150	

1.1 ELECTRICAL PANEL SCHEDULE



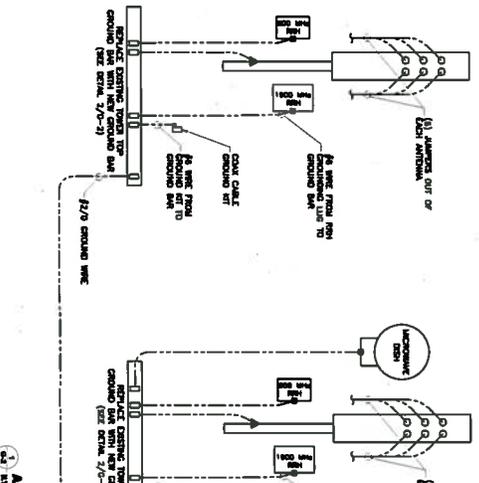
1.2 POWER ONE-LINE DIAGRAM

1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL, STATE, AND LOCAL CODES, LAWS, AND ORDINANCES. PROVIDE ALL NECESSARY PERMITS AND APPROVALS.
2. SCHEDULE 40 CONDUIT SHALL BE USED FOR ALL NEW ELECTRICAL AND TELEPHONE SERVICE SETS UNLESS OTHERWISE SPECIFIED. SCHEDULE 40 CONDUIT SHALL BE USED FOR ALL EXISTING ELECTRICAL AND TELEPHONE SERVICE SETS UNLESS OTHERWISE SPECIFIED. SCHEDULE 40 CONDUIT SHALL BE USED FOR ALL EXISTING ELECTRICAL AND TELEPHONE SERVICE SETS UNLESS OTHERWISE SPECIFIED. SCHEDULE 40 CONDUIT SHALL BE USED FOR ALL EXISTING ELECTRICAL AND TELEPHONE SERVICE SETS UNLESS OTHERWISE SPECIFIED.
3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL, STATE, AND LOCAL CODES, LAWS, AND ORDINANCES. PROVIDE ALL NECESSARY PERMITS AND APPROVALS.

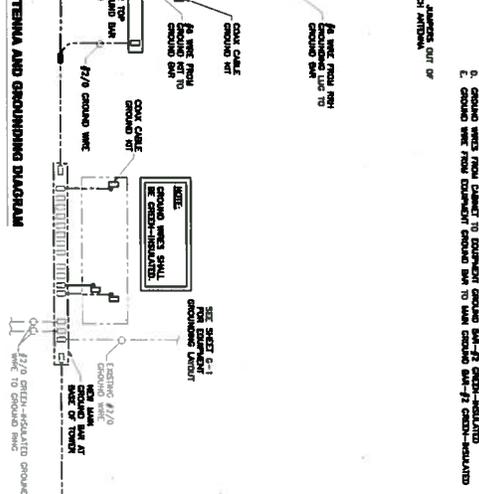


1.3 UTILITY TRENCH DETAIL

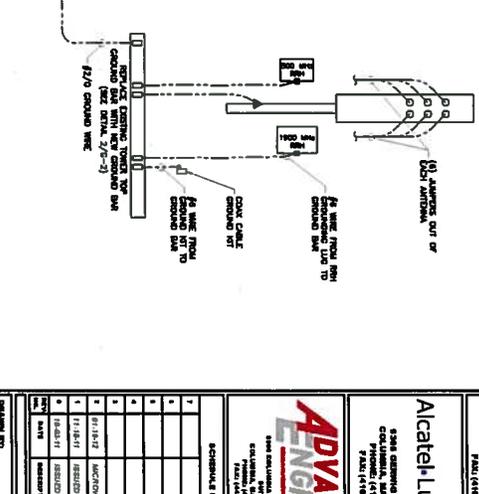
ALPHA SECTOR



BETA SECTOR

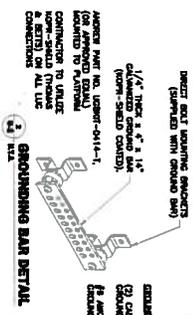


GAMMA SECTOR

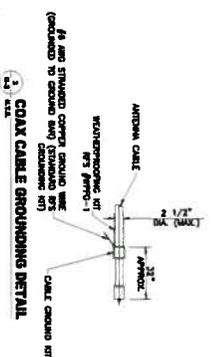


- GENERAL NOTES:**
- GROUND WIRING SHALL BE AS FOLLOWS:
 - GROUND WIRE SHALL BE GALVANIZED, PROTECTED WITH HOT DIP GALVANIZING.
 - GROUND WIRE SHALL BE GALVANIZED, HOT DIP GALVANIZED, AND SHALL BE PROTECTED WITH HOT DIP GALVANIZING.
 - GROUND WIRE SHALL BE GALVANIZED, HOT DIP GALVANIZED, AND SHALL BE PROTECTED WITH HOT DIP GALVANIZING.
 - GROUND WIRE SHALL BE GALVANIZED, HOT DIP GALVANIZED, AND SHALL BE PROTECTED WITH HOT DIP GALVANIZING.

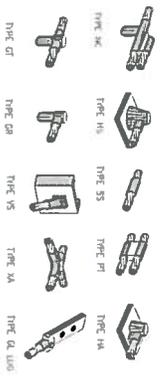
ANTENNA AND GROUNDING DIAGRAM



GENERAL NOTES:
 (1) GALVANIZED 1/2" AND 3/4" TO 1/2" DIA. ANTENNA CABLE SHALL BE GALVANIZED.
 (2) GALVANIZED 1/2" AND 3/4" TO 1/2" DIA. ANTENNA CABLE SHALL BE GALVANIZED.



GENERAL NOTES:
 (1) GALVANIZED 1/2" AND 3/4" TO 1/2" DIA. ANTENNA CABLE SHALL BE GALVANIZED.
 (2) GALVANIZED 1/2" AND 3/4" TO 1/2" DIA. ANTENNA CABLE SHALL BE GALVANIZED.



TYPICAL CARRIED TYPE CONNECTIONS

Sprint
 VISION
 7000 SULLY ROAD, SUITE 100
 CHARLOTTE, NC 28216
 PHONE: (704) 282-7400
 FAX: (704) 282-7400

Alcatel-Lucent
 5000 GARDNER LANE, SUITE 100
 CHARLOTTE, NC 28216
 PHONE: (704) 282-2318
 FAX: (704) 282-2318

ADVANTAGE ENGINEERS
 3000 NORTH WATSFIELD COURT
 ARLINGTON, VIRGINIA 22207
 PHONE: (703) 282-2318
 FAX: (703) 282-2318

SCHEDULE OF MATERIALS

1	ANTENNA	TYPE 1K
2	ANTENNA	TYPE 1H
3	ANTENNA	TYPE 1S
4	ANTENNA	TYPE 1P
5	ANTENNA	TYPE 1A
6	ANTENNA	TYPE 1C
7	ANTENNA	TYPE 1D
8	ANTENNA	TYPE 1E
9	ANTENNA	TYPE 1F
10	ANTENNA	TYPE 1G
11	ANTENNA	TYPE 1I

GROUNDING PLAN, DETAILS, & NOTES

DATE: 11/11/03
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

G-2

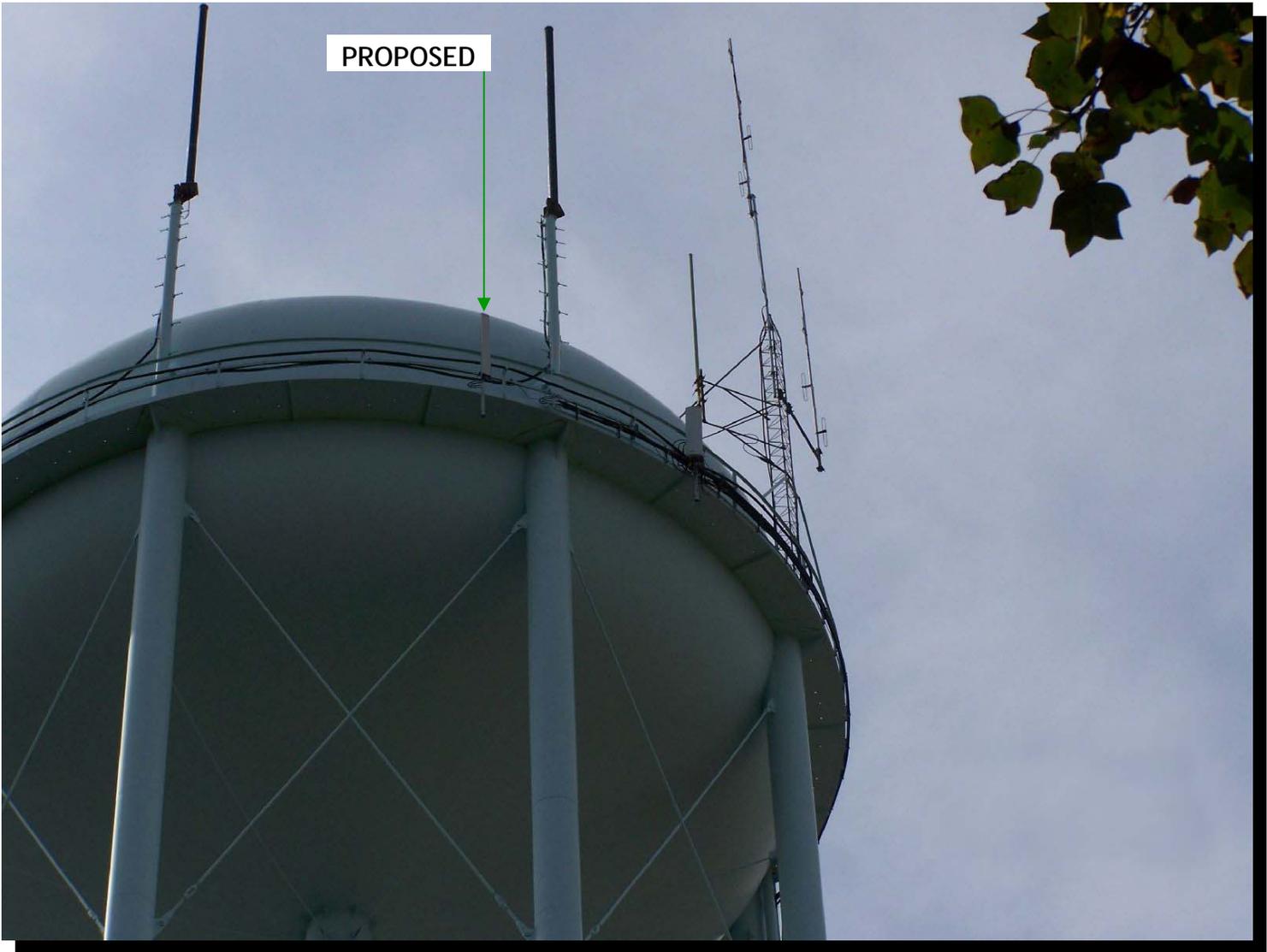
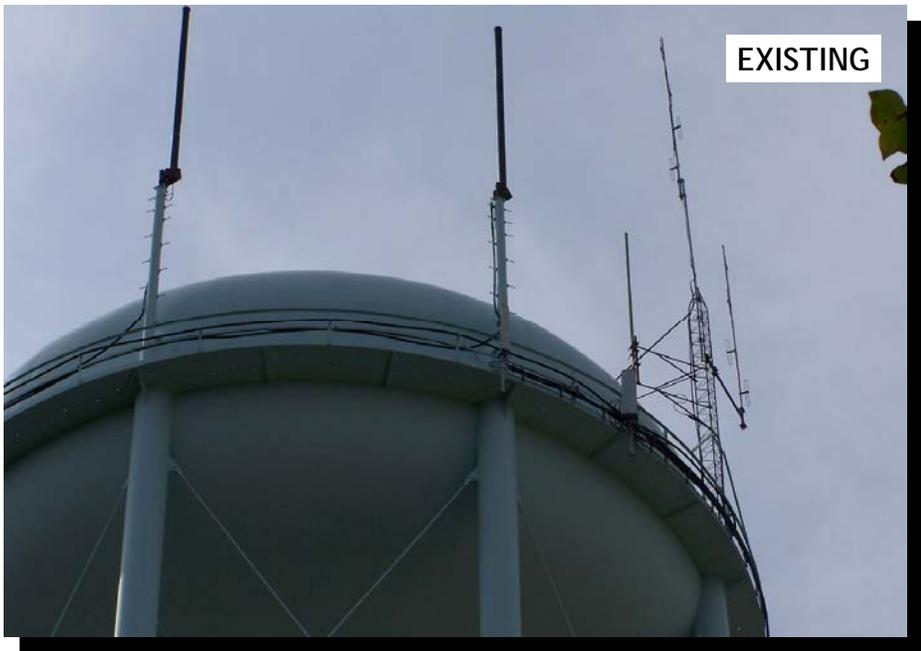
LEE PLUMBING STATION
 WATER TANKS
 SITE ADDRESS:
 3400 NORTH WATSFIELD COURT
 ARLINGTON, VIRGINIA 22207

SHEET NO. 12 OF 13

PROJECT: [Name]
 DRAWING NO.: [Name]
 DATE: [Date]

	SECTOR 1	SECTOR 2	SECTOR 3
1900MHz Azimuth	15	90	235
1900 MHz No of Antennas	1	1	1
1900MHz RADCenter(ft)	148.4	148.4	148.4
1900MHz Antenna Make	RFS	RFS	RFS
1900MHz Antenna Model	APXVSP18-C-A20	APXVSP18-C-A20	APXVSP18-C-A20
1900MHz Horizontal Beamwidth	65	65	65
1900MHz Vertical Beamwidth	5.5	5.5	5.5
1900MHz AntennaHeight (ft)	6	6	6
1900MHz AntennaGain(dBd)	15.9	15.9	15.9
1900MHz E_Tilt	-4	-4	-4
1900MHz M_Tilt	0	0	0
1900 Carrier Forecast Year_2013	5	5	5
1900_RRH Manufacturer	ALU	ALU	ALU
1900_RRH Model	TBD	TBD	TBD
1900_RRH Count	2	2	2
1900_RRH Location	Top of the Pole/Tower	Top of the Pole/Tower	Top of the Pole/Tower
1900 Combiner Model	IBC1900HA-2	IBC1900HA-2	IBC1900HA-2
1900_Top_Jumper #1 Length (RRH or Combiner-to-Antenna, ft)	10	10	10
1900_Top_Jumper Cable Model (RRH or Combiner-to-Antenna)	LCF12-50J	LCF12-50J	LCF12-50J
1900_Top_Jumper #2 Length (RRH-to-Combiner, ft)	6	6	6
1900_Top_Jumper #2 Cable Model (RRH-to-Combiner)	LCF12-50J	LCF12-50J	LCF12-50J
1900 Main Coax Cable Length (ft)	N/A	N/A	N/A
1900 Main Coax Cable Model	N/A	N/A	N/A
1900 Bottom_Jumper #1 Length (Ground-based-RRH-OR_Combiner-to-Main-Coax, ft)	N/A	N/A	N/A
1900 Bottom_Jumper #2 Length (Ground-based-RRH-OR_Combiner-to-Main-Coax)	N/A	N/A	N/A
1900 Bottom_Jumper #2 Cable Model (Ground-based-Combiner-to-Main-Coax)	N/A	N/A	N/A
800MHz Azimuth	15	90	235
800 MHz No of Antennas	0	0	0
800MHz RADCenter(ft)	148.4	148.4	148.4
800MHz AntennaMake	RFS	RFS	RFS
800MHz AntennaModel	APXVSP18-C-A20 (Shared w/1900)	APXVSP18-C-A20 (Shared w/1900)	APXVSP18-C-A20 (Shared w/1900)
800MHz Horizontal Beamwidth	65	65	65
800MHz Vertical Beamwidth	11.5	11.5	11.5
800MHz AntennaHeight (ft)	6	6	6
800MHz AntennaGain (dBd)	13.4	13.4	13.4
800MHz E_Tilt	-8	-8	-8
800MHz M_Tilt	0	0	0
800_RRH Manufacturer	ALU	ALU	ALU
800_RRH Model	TBD	TBD	TBD
800_RRH Count	1	1	1
800_RRH Location	Top of the Pole/Tower	Top of the Pole/Tower	Top of the Pole/Tower
800_Top_Jumper #1 Length (RRH or Combiner-to-Antenna, ft)	10	10	10
800_Top_Jumper Cable Model (RRH or Combiner-to-Antenna)	LCF12-50J	LCF12-50J	LCF12-50J
800 Main Coax Cable Length (ft)	N/A	N/A	N/A
800 Main Coax Cable Model	N/A	N/A	N/A
800 Bottom_Jumper #1 Length (Ground-based-RRH-Main-Coax, ft)	N/A	N/A	N/A
800 Bottom_Jumper #1 Cable Model (Ground-based-RRH-OR_Combiner-to-Main-Coax)	N/A	N/A	N/A

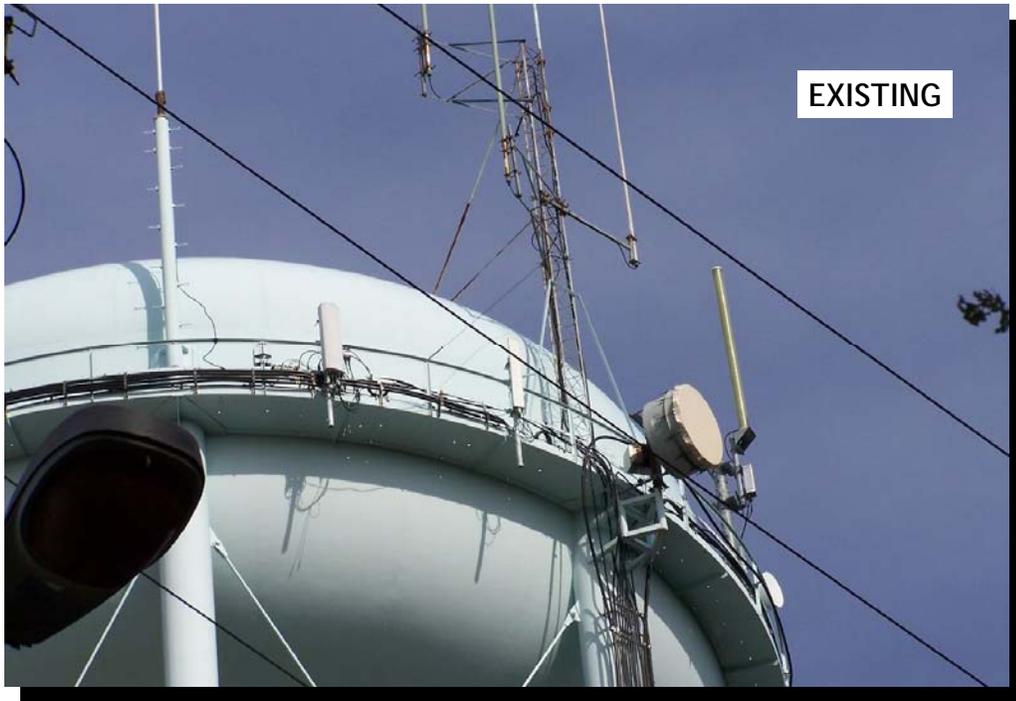
1/16/2012
 RDFS regenerated due to change in RRH count based on 1.3 Capacity Forecast.
 0
 Comment



SITE ID: DC03XC179
WIRELESS COMMUNICATION FACILITY
2400 NORTH WAKEFIELD COURT
ARLINGTON, VA 22207

SECTOR 1 VIEW
SHOWING THE PROPOSED SITE





EXISTING



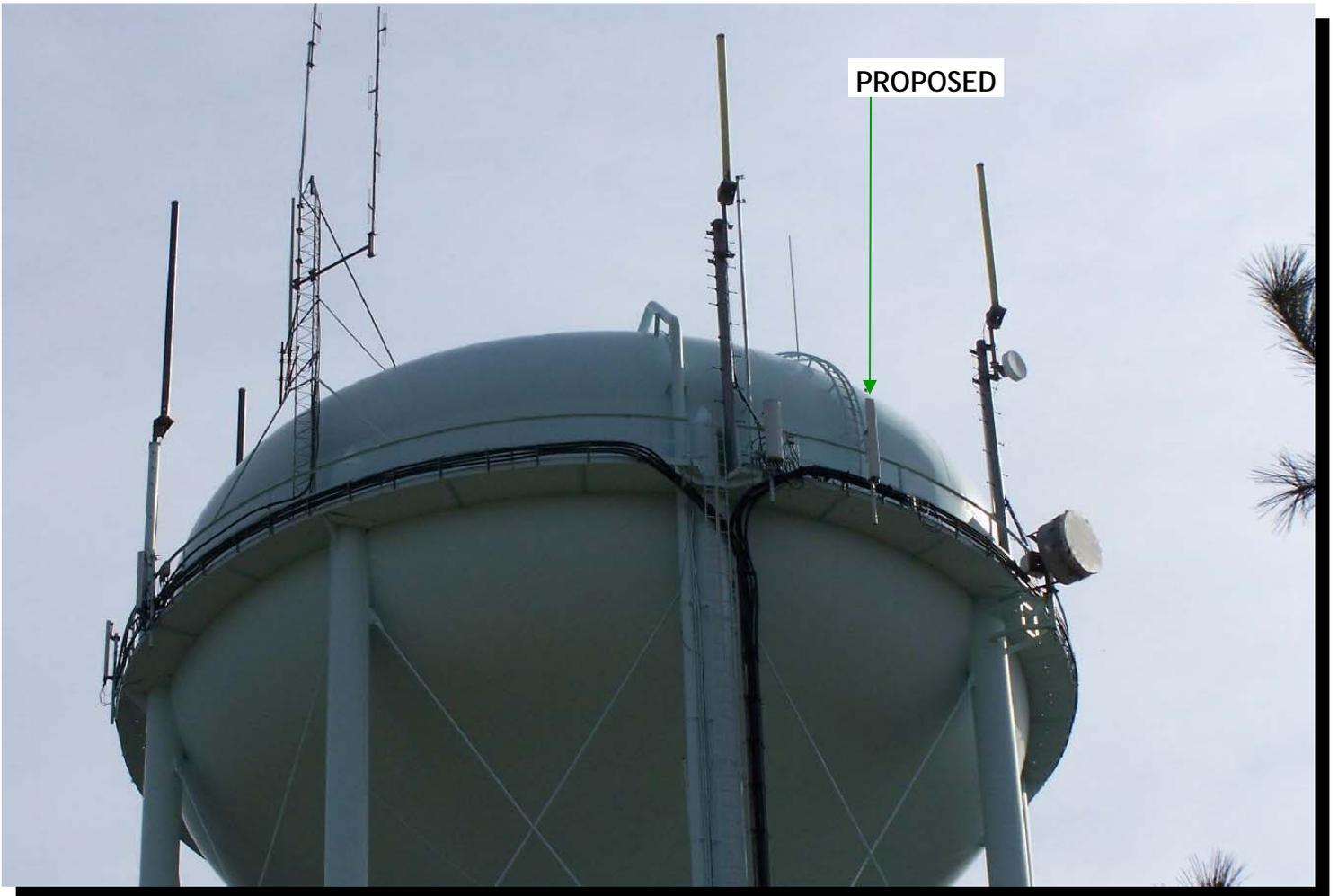
PROPOSED

PROPOSED NEW
MW DISH

SITE ID: DC03XC179
WIRELESS COMMUNICATION FACILITY
2400 NORTH WAKEFIELD COURT
ARLINGTON, VA 22207

SECTOR 2 VIEW
SHOWING THE PROPOSED SITE







**Sprint/Nextel
Property Services**
6391 Sprint Parkway
Mailstop: KSOPHT0101-Z2650
Overland Park, KS 66251-2650
Landlord Solutions: (800) 367-7641
Fax: (913)523-9735

Denise Scott
Ericsson Contractor for Sprint
Facilities Engineer II
Zoning & Permitting
Direct line: 704-287-0448
Direct Fax: 704-424-1852
denise.2.scott@sprint.com



July 19, 2012

VIA - UPS 2ND DAY AIR
Tracking # IZ 21A 059 02 9388 1007

Arlington County Zoning Division
2100 Clarendon Blvd, 10th Floor
Arlington, VA 22201
Attn: Peter K. Schulz, AICP

RE: 2012 Annual RFE Compliance Assessment

Sprint Nextel Site Reference: DC03XC179-Z / LEE PUMPING STATION
Property Address: 2400 NORTH WAKEFIELD ST, ARLINGTON VA 22207
Installation Type: Tower / Antennas

Dear Mr. Schulz:

Pursuant to the Arlington County Board's requirement regarding the conditions of approval for Permit #U-2823-94-4. Please find enclosed a copy of the required Annual RFE Compliance Assessment. This report was submitted by EBI Consulting, Inc.

Respond in writing that you have received the document and whether the information submitted has been reviewed and found to be in compliance with all applicable statutes, local laws, ordinance, codes, rules and regulations.

Send all future notices, correspondence, and inquiries regarding this Site to the following address:

Property Services / Zoning Compliance
Sprint Site ID: DC03XC179-Z
Mailstop KSOPHT0101-Z2650
6391 Sprint Parkway
Overland Park, Kansas 66251-2650

If you have any questions do not hesitate to contact us via our toll free Hotline at (800) 357-7641.

Sincerely,

Denise Scott
Facilities Engineer – Sprint Nextel/Ericsson Network Advantage | Zoning & Permitting

Cc: DONALDSON RUN CIVIC ASSOCIATION
OLD DOMINION CITIZENS ASSOCIATION

Radio Frequency Emission Survey



Sprint Nextel Site ID:	DC03XC179
Address:	2400 Wakefield Court Arlington, Virginia 22207
Site Survey Date:	July 12, 2012
Report Date:	July 18, 2012

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1. Introduction

The electromagnetic spectrum includes various forms of electromagnetic energy from extremely low frequency energy, with very long wavelengths, to x-rays and gamma rays, which have very high frequencies and short wavelengths. In between are radio waves, microwaves, infrared, visible light and ultraviolet, for example.

As depicted in Figure 1-1, the frequencies from Sprint Nextel's equipment emit non-ionizing energy. The effects of non-ionizing energy are non-cumulative. Non-ionizing energy can turn into heat, if absorbed. (By comparison, ionizing energy is generally cumulative and can cause chemical and biological changes).

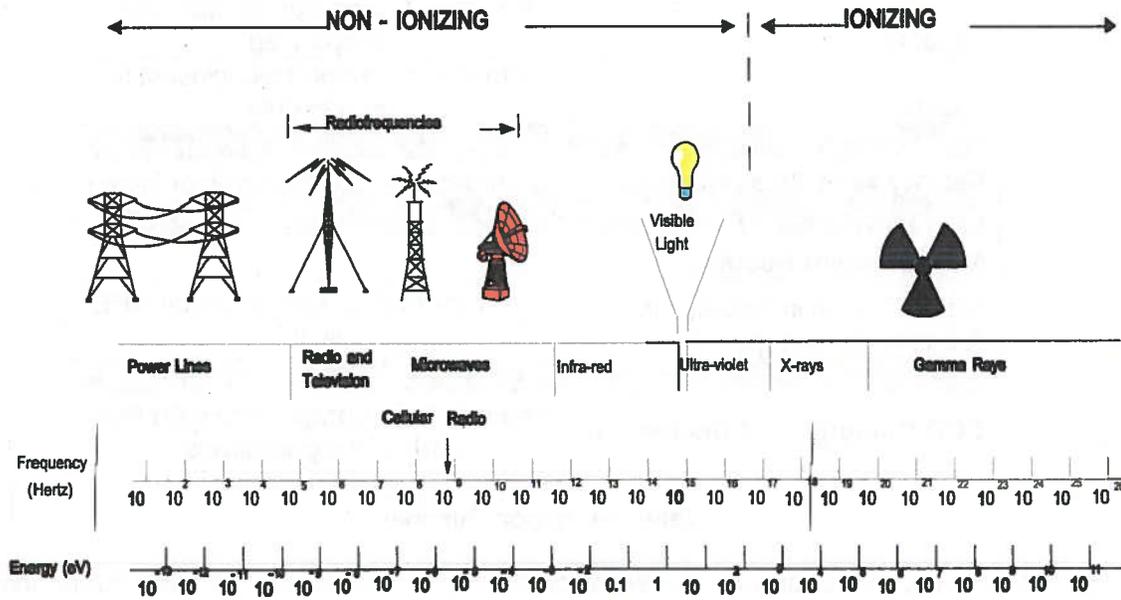


Figure 1-1
(FCC OET Bulletin 56, Fourth Ed.)

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Sprint Nextel has installed RF transmitting antennas at the following location (the "wireless telecommunications facility"):

2400 Wakefield Court, Arlington, Virginia 22207

Sprint Nextel SITE ID: DC03XC179

Facility Type:	Water Tank
Access Restriction(s):	Locked access gate to municipal compound
RF Signage	
Type(s):	Yes; blue Notice sign on water tank support leg
Location:	Water tank support leg, closest to access drive
Facility Area Classification:	
	Controlled (Occupational Population)
Measurement Results	
Max RF Level in Accessible Areas within Compound:	0.1071% of FCC Occupational MPE limit
FCC Compliance Conclusion:	
	The site is in compliance with FCC limits and guidelines.

Table 1-1. Report Summary

EBI Consulting performed an RF emission survey of the RF environment surrounding the facilities installed by Sprint Nextel at this location. The facility is located on a water tank within a municipal compound. Access to the facility is restricted to authorized personnel and facility management.

Sprint Nextel is licensed by the Federal Communications Commission ("FCC") to provide wireless communications services. As required by the FCC, wireless system operators perform an assessment of the potential human exposure to radio frequency emissions from transmitting antennas at the site.

The physical survey verified antenna placement and technical specifications for accurate recommendations to determine compliance with FCC guidelines. Antenna specifications presented herein are based on direct evidence from an antenna or transmitter cabinet, information from the site manager or building manager, information from the licensees, educated estimates by the field technician or a combination of some or all of these sources.

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A survey was performed on July 12, 2012 to determine the RF emission levels present at the site. Measurements were performed on the areas considered accessible to the occupational population.

To measure the RF emissions within the vicinity, EBI Consulting utilized a NARDA E Field Probe Model EA5091 Standard Shaped probe S/N 01110, Frequency Range 300 KHz-50 GHz with NARDA Electromagnetic Survey Meter Model NBM-520 S/N D-0065. Calibration was performed on February 11, 2011.

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2. Technical Specifications

Below in Table 2-1 are the technical specifications of the antennas located at the site. Physical verification was made to ensure technical specification accuracy. Antenna specifications presented herein are based on direct evidence from an antenna or transmitter cabinet, information from the site manager or building manager, information from the licensees, educated estimates by the field technician or a combination of some or all of these sources. "N/A" (not available) is used if any of the following information was not obtainable or verifiable to an acceptable certainty.

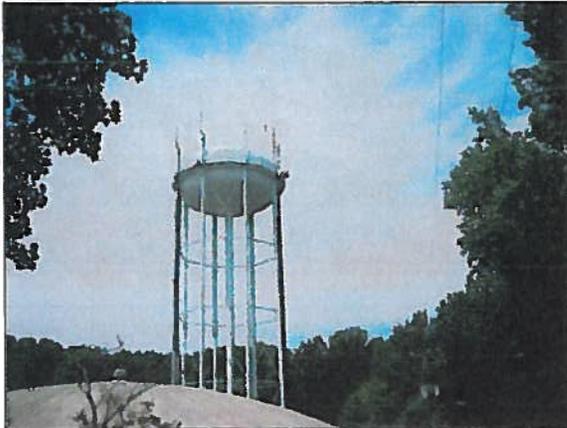
Ant #	Type	Mfr/Model	Freq (MHz)	Azimuth°	Mech. Down Tilt°	Height (AGL/ft.)	Carrier
1	Panel	Decibel DB961DD90(E)-M	N/A	15	3	Approx. 145	Sprint Nextel
2	Panel	Decibel DB961DD90(E)-M	N/A	135	2	Approx. 145	Sprint Nextel
3	Panel	Decibel DB961DD90(E)-M	N/A	255	0	Approx. 145	Sprint Nextel
4	Panel	N/A	N/A	0	N/A	Approx. 145	T-Mobile
5	Panel	N/A	N/A	120	N/A	Approx. 145	T-Mobile
6	Panel	N/A	N/A	240	N/A	Approx. 145	T-Mobile

Table 2-1. Technical Specifications

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3. Photos

The following photos show the Sprint Nextel wireless telecommunications facility.



1. Water tank overview



3. Sector B antennas (Sprint on right)



2. Sector A antennas (Sprint on right)



4. Sector C antennas (Sprint on right)

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5. Sprint equipment shelter



7. Main access gate to municipal compound



6. Secondary access gate to municipal compound

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4. RF Survey

RF emission levels were assessed through direct measurements at the transmitter site using properly calibrated field probes. Due to the possibility that Electromagnetic Energy ("EME") fields may exist over a wide frequency range within which the exposure limits vary, field measurements were performed with a meter equipped with a frequency shaped probe that can automatically weigh each field contribution according to its frequency.

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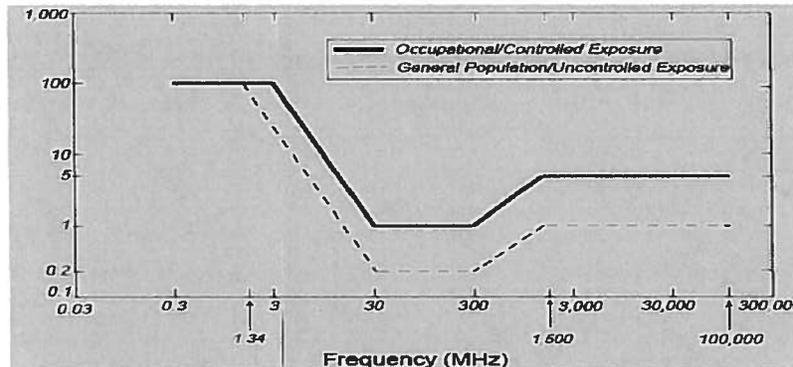
5. FCC Policy on Human Exposure to RF Emissions

The FCC guidelines for human exposure to RF emissions were derived from the recommendations of two expert organizations, the National Council on Radiation Protection and Measurements (“NCRP”) and the Institute of Electrical and Electronics Engineers (“IEEE”). The exposure guidelines are based on thresholds for known adverse effects and they incorporate an appropriate margin of safety. The federal health and safety agencies such as the Environmental Protection Agency (“EPA”), the Food and Drug Administration (“FDA”), the National Institute on Occupational Safety and Health (“NIOSH”) and the Occupational Safety and Health Administration (“OSHA”) have also been actively involved in monitoring and investigating issues related to RF exposure.

The FCC’s Maximum Permissible Exposure (“MPE”) limits are based on exposure limits (over a wide range of frequencies) recommended by the NCRP and the exposure limits developed by the IEEE and adopted by the American National Standards Institute (“ANSI”). The limits for localized absorption are based on the recommendations of both the ANSI/IEEE and the NCRP. The potential hazard associated with the RF electromagnetic fields is discussed in OET Bulletin No. 56 “Questions and Answers about the Biological Effects and Potential Hazards of Radiofrequency Electromagnetic Fields”. This document can be obtained on the FCC website at www.fcc.gov. The table and the graph below represent the FCC limits for both occupational and general population exposures to different radio frequencies:

Frequency Range (f) (MHz)	Occupational Exposure ² (mW/cm ²)	General Public Exposure ² (mW/cm ²)
0.3 – 1.34	100	100
1.34 - 3.0	100	180 / f ²
3.0 - 30	900 / f ²	180 / f ²
30 – 300	1.0	0.2
300 – 1,500	f / 300	f / 1500
1,500 – 100,000	5.0	1.0

Table 5-1. FCC Limits for Maximum Permissible Exposure



Graph 6-1. FCC Limits for Maximum Permissible Exposure

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6. Discussion of Safety Criteria

Energy levels associated with the RF radiations are not great enough to cause the ionization of atoms and molecules. "Ionization" is a process by which electrons are stripped from atoms and molecules. This process can produce molecular changes that can lead to damage in biological tissue including effects on DNA, the genetic material. This process requires interaction with high levels of electromagnetic energy. Those types of electromagnetic radiation with enough energy to ionize biological material include x-radiation and gamma radiation. Therefore, x-rays and gamma rays are examples of ionizing radiation (see Section 1 for additional information).

RF energy is a type of non-ionizing radiation. Other types of non-ionizing radiation include visible light, infrared radiation and other forms of electromagnetic radiation with relatively low frequencies. Often the term "radiation" is used to apply to ionizing radiation associated with nuclear power plants. Ionizing radiation should not be confused with the lower-energy, non-ionizing radiation with respect to possible biological effects.

The RF emissions from antennas used for wireless telecommunications typically result in exposure levels at the site that are well below the limits recommended by the FCC. These limits were adopted by the FCC based on the recommendations of expert organizations and endorsed by agencies of the Federal Government responsible for health and safety.

Other antennas, such as those used for radio and television broadcast transmissions, use power levels that are generally higher than those used for wireless antennas. Therefore, in some cases, there could be a potential for higher levels of exposure on the site. However, all broadcast stations are also required to demonstrate compliance with the FCC guidelines.

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7. Field Measurements

7.1 Ground-Level Measurements

A RF emissions survey was performed at the wireless telecommunications facility. This survey included walking around the water tank compound and noting the maximum average spatial readings encountered. The maximum value of the average spatial readings of RF emissions encountered on the ground was 0.1071% of the occupational population standard exposure limit at ground level surrounding the water tank.

Below is the layout depicting the actual readings (% of the FCC MPE occupational population standard limits) at various locations at the site. Various measurements were taken to indicate the RF emissions levels that can be encountered by an individual who gains access to the water tank compound.

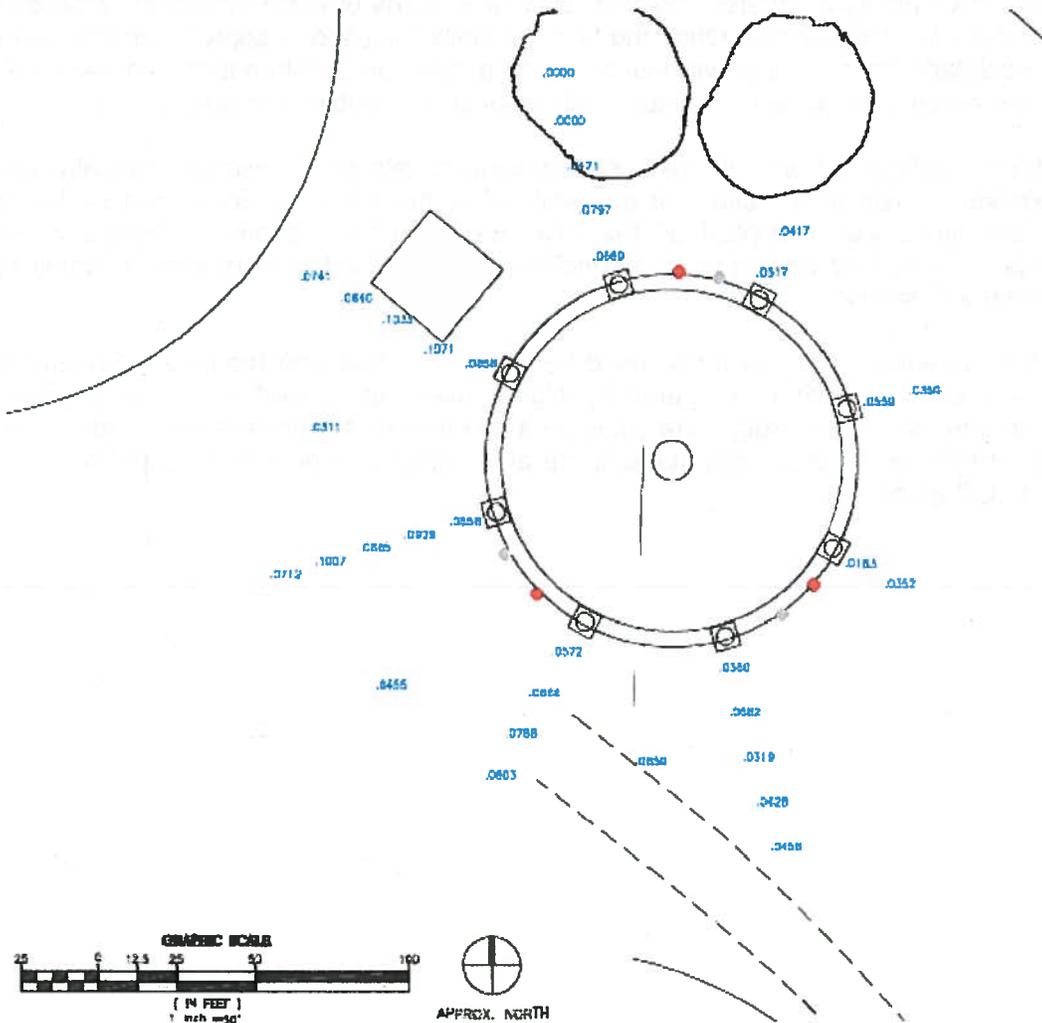


Figure 7-1. Ground Layout
 Red symbols are Sprint Nextel antennas
 Blue numbers are the percentages of FCC MPE Limits based on Occupational Standards

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8. Conclusion

Compliance with the FCC's rules on human exposure to RF emissions at wireless telecommunications facilities generally is determined by comparing actual measurements taken at the facility to the FCC's MPE limits.

The results of the instant survey indicate the levels of RF emissions exposure do not exceed or exceeds applicable FCC MPE limits.

The highest level of RF emissions measured was 0.1071% of the FCC's MPE limits based on the occupational population standard. A controlled/occupational environment assumes that access to the facility is generally restricted to authorized personnel and facility management and members of the general public will not be able to access the site.

9. Certification

This report was prepared for Sprint Nextel and serves as certification for compliance of the existing Sprint Nextel wireless telecommunications facility. The analysis and information provided herein is based on applicable FCC regulations concerning RF safety and the control of human exposure to RF emissions. The information and analysis contained in this report are accurate and complete to the best knowledge and belief of the undersigned.

Survey Completed by:



July 12, 2012

for Mark Fisher
EBI Consulting

Report Prepared by:



July 18, 2012

Shaun Sagan
Staff Scientist
EBI Consulting

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Appendix A

References

- FCC OET Bulletin 65 "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields," (Edition 97-01, dated August 1997).
- FCC OET Bulletin 56 "Questions and Answers about Biological Effects and Potential Hazards of Radiofrequency Electromagnetic Fields," (Fourth Edition, dated August 1999).
- FCC "Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation", ET Docket 93-62, Report and Order, FCC 96-326, adopted August 1, 1996. 61 Federal Register 41006 (1996).
- Federal Communications Commission (FCC), Telecommunication Act of 1996, Title VII, Section 704, Facilities Siting; Radio Frequency Emissions Standards.
- National Council on Radiation Protection and Measurements (NCRP), "Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields", NCRP Report No. 119, 1993.
- American National Standards Institute (ANSI), "Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992 (previously issued as IEEE C95.1-1991).
- American National Standard Institute (ANSI), "Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, (300 kHz to 100 GHz), ANSI C95.1-1982.

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CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION

Reviewed and Approved by:



sealed 18july2012

Michael McGuire
Electrical Engineer

Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the building and related structures, as well as the impact of the antennas and broadcast equipment on the structural integrity of the building, are specifically excluded from EBI's scope of work.



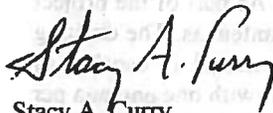
**RF ENGINEERING Supplemental Statement in Support of Proposed
Amendment to Use Permit # U-2823**

The undersigned hereby states the following in support of the application by Sprint to replace each of the three (3) existing antennas and install one (1) addition dish antenna at approximately one hundred forty eight (148) feet above ground level (AGL), and replace related equipment at the property located at 2400 North Wakefield St. in Arlington (hereinafter referred as the "Site").

1. I am a Radio Frequency Engineer employed by Alcatel-Lucent representing Sprint with an office located at 9305 Gerwig Lane, Suite H, Columbia, MD. 21046-2907
2. My primary responsibilities include radio frequency design and planning in the State of Maryland and Washington D.C.
3. I have thoroughly reviewed the radio frequency engineering studies, reports and computer models prepared by Sprint with respect to the Site.
4. Sprint is licensed by the Federal Communications Commission ("FCC") to provide wireless communication services by building a network of communication sites.
5. In order to build out its network and meet customer demand for Wireless Services, Sprint must have in place a system of wireless sites to serve portable wireless communication data devices.
6. Alcatel-Lucent, on behalf of Sprint, is currently in the process of enhancing the services by overlaying new LTE technology over the existing CDMA network. The new LTE technology will provide faster throughput speeds and add data capacity to the area. As part of the project the new 1900/800 (RET) remote electrical antenna will replace existing antennas. The existing antennas cannot support multiple technologies. The new 6ft antenna model is capable of providing LTE, CDMA and EvDO services in 1900MHz & 800MHz band with one antenna per sector. **The use of this antenna will reduce the need for installing multiple smaller antennas per sector to provide LTE, CDMA & EvDO services in 1900MHz & 800MHz.**
7. To maintain effective, reliable and uninterrupted service, there must be a continuous series of sites located within close proximity to each other so as to overlap in a system comparable to a honeycomb pattern. If there is no site available to accept/receive the signal, network service to the mobile service will terminate involuntarily. Accordingly, the overlap of coverage is necessary for the signal to transfer from one site to another site seamlessly and without involuntary termination.
8. A number of factors determine the distance between cell sites, including, but not limited to, topography, physical obstructions, foliage, antenna height and line-of-sight.

9. Based on the radio frequency studies, reports and computer models prepared in connection with this project, it is my professional assertion that without the proposed site there would be inadequate network service for Sprint customers due to a coverage gap.
10. The proposed wireless communications site and equipment shall be in compliance with the FCC Guidelines for Evaluating the Environmental Effects of Radio Frequency Radiation. It is the responsibility of Sprint to make sure that it will be in service and in compliance with FCC guidelines.
11. The proposed wireless communications equipment will be installed, erected, maintained and used in compliance with all applicable Federal, State and local regulations, including, but not limited to: the radio frequency emissions regulations set forth in the 1996 Federal Communications Act, applicable regulations administered by the Federal Aviation Administration (FAA) and Federal Communications Commission (FCC).
12. The RF emission from these proposed antennas shall not exceed the State and Federal standards when combined with all other existing facilities on the site and in addition, the new antennas would not interfere with the other existing wireless structures from other carriers at the site location.
13. There are currently three panel antennas on the site and Sprint is merely requesting approval to replace all three; the use of the site will not be intensified. The proposed dish antenna shall provide point to point communications and thereby enable higher bandwidth where traditional telephone providers cannot provide sufficient fiber connections because of high cost, lack of facilities or some other technical consideration. The microwave dish provides point to point backhaul within a very narrow beam (0.5 to 5 degrees) between 2 dishes on separate structures. This point to point communications requires a clear line of sight ("LOS") between the dishes that face each other; a clear pathway without obstructions throughout the year is crucial to achieve effective service.
14. Based upon the best radio frequency technology available at this time, it is my professional opinion that the proposed site is at the minimum height that is needed to ensure adequate service to area residents and businesses.

Sincerely,



Stacy A. Curry
RF ENGINEER
Alcatel-Lucent on behalf of Sprint
October 23, 2012



November 6, 2012

Department of Community Planning, Housing and Development
Arlington County Planning Division
2100 Clarendon Boulevard, 10th Floor
Arlington, VA 22201

**Supplemental Statement in Support of Proposed Amendment to Use
Permit # U-2823**

Sprint facility at: 2400 North Wakefield Court, Arlington, VA 22201
Sprint File Number: DC03XC179

To whom it may concern:

I am a radio frequency engineer working on behalf of Sprint on the above referenced facility. I am writing in response to inquiries that have been made by neighbors and community associations concerning the safety of RF emissions on the site.

The first inquiry stated in pertinent part, "The site survey . . . indicates that the exposures would be only 0.1071% of the FCCs maximum permissible exposure. . . . this appears to be an assessment of the current configuration, not the proposed configuration. Unless they perform another measurement after the new equipment is installed OR they use some sort of modeling program using the proposed antenna/transmitter power specs then we know nothing about what the proposed emissions look like."

The query writer is correct; the study is an assessment of the present actual percentage of the FCC maximum permissible exposure at the time of the measurement. At the time of measurement, the total emissions from the site, including all operators, not just Sprint, was *less than 1/11th of one percent* of the FCC limits for human exposure for occupational groups. A projection of change in exposure is not feasible. Sprint is one of several operators on this site and it is not possible for Sprint to predict or model the total site emissions. In part, we have no knowledge of the equipment being deployed by other operators at the site. In any event, Sprint is bound by federal law, vis-à-vis our license issued by the Federal Communications Commission, to not operate any equipment that would exceed the standards for human exposure to electromagnetic fields. Additionally, per condition

#2 of the use permit, Sprint's electromagnetic emissions, shall at all times, comply with ANSI C95.1-1992, as adopted by the FCC.

Also, per condition #2 of the use permit, Sprint agreed to have an independent engineering firm conduct field measurements of its electromagnetic emissions on an annual basis. If Sprint's operations cause it to exceed the ANSI C95.1-1992 standard we agree to immediately cease operations until the violation can be corrected. Sprint submits to the County Board that we perform the required annual emissions measurements within a reasonable period of time after the proposed equipment installation is completed. If it is found the proposed installation results in emissions that exceed the ANSI C95.1-1992 standard, Sprint will cease operations immediately until the violation is corrected.

The second query questioned the power of the dish antenna and the elevation pattern, gain and the transmitting frequency, specifically, *"How much power is being delivered to the proposed parabolic (dish) antenna, and similarly, what is its elevation pattern, gain and the frequency that it will be transmitting? I couldn't find any technical details about the radiation pattern of this fourth antenna. Given that this will be used as a relay system from this tower to another tower somewhere in town, I would surmise that it is of considerably higher bandwidth and transmitter power and hence be emitting a far greater total amount of energy. Granted, this is probably a highly directional antenna with very little of its energy being directed to anything on the ground near the tower, but I find it suspicious that there are no technical details in the proposal and that a claim of 0.1071% of maximum permissible exposure is made without any regard to this new antenna."*

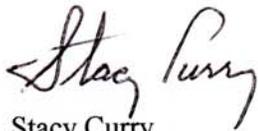
The dish will be installed at the same level as the panel antennas and will have an azimuth of 149.17 degrees. The dish has a frequency of 23 GHz. The gain is 41.5 dBi. We cannot provide a specific power figure for the dish because that will not be established until the dish is installed and pathed. The level is determined by how much power is necessary to provide a link to the remote dish.

The statement above is indeed correct. Little, if any, electromagnetic emissions from the dish will reach the ground. The signal characteristic of dish antennas, by nature, is a very narrow (1.5 degrees in this case) focused beam which provides point to point communications with another dish antenna at a remote location. Where the PCS panel antennas are designed to "cover" a broad area with signal, a dish antenna, conversely, provides a link to a remote dish using a very narrow path. If we imagine the antennas as lights, the panel antennas would be floodlights and the dish antenna would be a spotlight. This means that in order to be exposed to the emissions from the dish antenna, a person would need to be directly in the path of the dish, this would only be possible if a person were suspended in air at the elevation of the dish. The statement regarding lack of technical

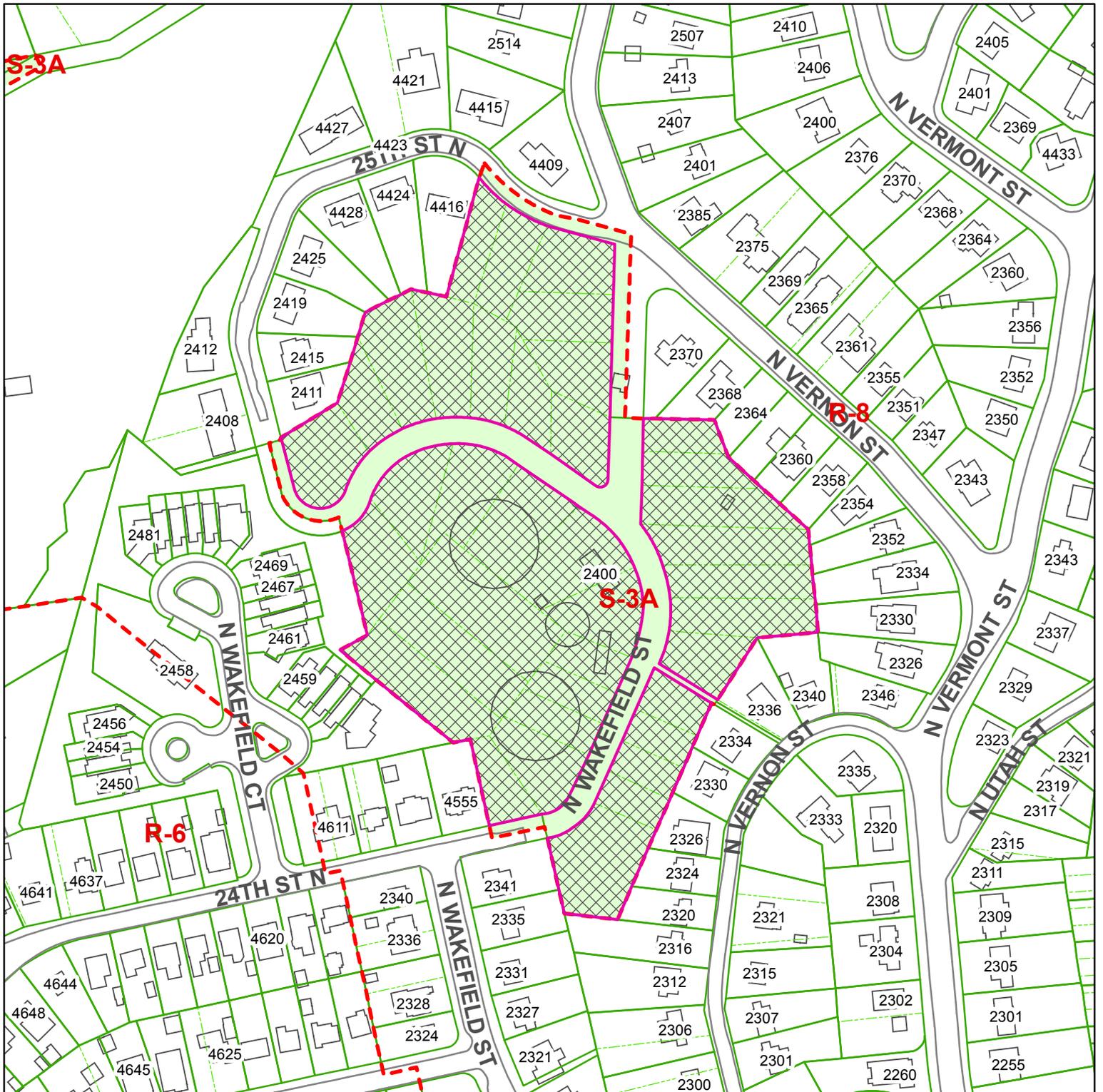
details is also correct. There are no technical details as regards the dish antenna in the report as this report was an analysis of the existing conditions on the site as of July 12th, 2012. At this time none of the proposed equipment was installed at the site. The report cited is not a proposal. The 0.1071% of maximum permissible exposure statement is not a claim; rather it is a real-time measurement. In order to provide a new measurement that takes all of the proposed equipment into account, the equipment would first need to be installed and turned up. As previously stated, Sprint fully intends to make these measurements, as required by the FCC and the Use Permit.

It is truly Sprint's intent to provide the highest quality wireless communications services possible to the residents of the area as well as Arlington County employees, including fire, public safety and EMS personnel. In the event of localized power failures and land line phone service losses related to storm damage or other disasters, Sprint continues to provide critical wireless communications services. Sprint is proud to be in the third of a six year contract to provide wireless voice & data services to the Arlington County Government. We also affirm our legal commitment to operate within the parameters of our license issued by the FCC, this includes complying with all standards adopted by the FCC, specifically those pertaining to electromagnetic emissions and the safe exposure levels thereto.

Respectfully Submitted,



Stacy Curry
RF Design Engineer
Alcatel-Lucent
9305 Gerwig Lane, Suite H
Columbia, MD 21046



U-2823-94-4

2400 N. Wakefield St.

RPC 05-005-072

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

Department of Community Planning, Housing and Development



 Case Location(s)
Scale: 1:2,400

Planning Division