



**Project Information & Primary Contacts**

<b><u>PROJECT INFORMATION</u></b>	<b><u>PROJECT #</u></b> _____
_____ PROJECT NAME	_____ SECTION
_____ ADDRESS (IF AVAILABLE)	_____ TOTAL SITE ACREAGE
_____ TAX MAP /PARCEL(S)	_____ ZONING DISTRICT
_____ LOCATION OF PROJECT	

<b><u>APPLICANT/AGENT</u></b> (Provide attachment if Applicant and Agent differ)	<b>Primary Contact Person</b> <input type="checkbox"/>
<u>Kristen Stelzer, Project Manager, Milestone (Applicant)</u>	<u>Milestone Tower Limited Partnership III</u>
NAME	COMPANY
<u>12110 Sunset Hills Road, Suite 100</u> <u>Reston,</u>	<u>Virginia</u> <u>20190</u>
ADDRESS	CITY      STATE      ZIP
<u>703-364-5608</u>	<u>Kristen@milestonecorp.comp</u>
PHONE NUMBER      FAX NUMBER	EMAIL ADDRESS

<b><u>OWNER</u></b> (Provide attachments if multiple owners)	<b>Primary Contact Person</b> <input type="checkbox"/>
_____ NAME	_____ COMPANY
_____ ADDRESS	_____ CITY      STATE      ZIP
_____ PHONE NUMBER	_____ FAX NUMBER      EMAIL ADDRESS

<b><u>PROFESSIONAL</u></b> (Engineer, Surveyor, etc.)	<b>Primary Contact Person</b> <input type="checkbox"/>
_____ NAME	_____ COMPANY
_____ ADDRESS	_____ CITY      STATE      ZIP
_____ PHONE NUMBER	_____ FAX NUMBER      EMAIL ADDRESS

**Statements of Understanding**

I, as owner/co-owner of the property subject to this application, do hereby certify that I have read and understand the requirements for the submission of comprehensive plan compliance for review and approval as provided under the requirements and applicable provisions of Section 15.2-2232 of the Code of Virginia and the Stafford County Comprehensive Plan.

\_\_\_\_\_  
Signature of Owner/Co Owner                      Printed Name                      Date

\_\_\_\_\_  
Signature of Owner/Co Owner                      Printed Name                      Date

\_\_\_\_\_  
Signature of Owner/Co Owner                      Printed Name                      Date

I, as applicant or agent for the owner(s) of the property subject to this application, do hereby certify that I have submitted this application for comprehensive plan compliance for review and approval as provided under the requirements and applicable provisions of Section 15.2-2232 of the Code of Virginia and the Stafford County Comprehensive Plan.

  
\_\_\_\_\_  
Signature of Applicant/Agent                      Edward L. Donohue                      6/29/16  
Printed Name                      Date

\* Additional sheets may be used, if necessary.

### General Information

CLEARLY INDICATE ALL INFORMATION THAT APPLIES TO THIS PROJECT:

NAME OF PROJECT: McDuff Green Park Monopole SECTION: \_\_\_\_\_

Is this application submitted in conjunction with another application?     Yes     No

If YES, application name or number (if available): Conditional Use Permit for McDuff Green Park

COMPREHENSIVE PLAN LAND USE DESIGNATION: Public Park

FEATURE REQUIRING REVIEW FOR COMPLIANCE WITH THE COMPREHENSIVE PLAN:

- Extension of sewer outside of the Urban Service Area (complete additional information)
- Telecommunication facility or collocation of telecommunication antennas on a structure which is not a telecommunication facility. (complete additional information)
- New or relocation of a street, connection or change to existing street, not identified on the Transportation Plan or not shown on a Preliminary Subdivision or Site Plan approved by the Planning Commission.
- Public Park or Area
- Public Building or Structure
- Public Utilities Facilities
- Public Service Corporation Facility
- Other: \_\_\_\_\_

DETAILED DESCRIPTION AND LOCATION OF PROJECT/FEATURE:

Construction of a 150 feet tall telecommunications monopole with a 6 feet tall lightning rod at the top and a 50 feet by 50 feet equipment compound at the base. The monopole and compound can accommodate up to 5 telecommunication providers and are located in the northwest quadrant of the park site.

COMPLETE ADDITIONAL INFORMATION IF APPLICABLE:

**FOR EXTENSION OF SEWER OUTSIDE OF THE URBAN SERVICE AREA:**

Number of lots connecting onto sewer: \_\_\_\_\_

Linear feet from existing sewer: \_\_\_\_\_

Connects to existing sewer outside of the Urban Service Area?     Yes     No

Will sewer extend outside the limits of the site?       Yes       No

If yes, how many existing dwellings would have access to the sewer? \_\_\_\_\_

Pump station required?     Yes       No

Type of proposed sewer:

Gravity

Low Pressure

Type:       Grinder

Ejector

Other: \_\_\_\_\_

**FOR TELECOMMUNICATION FACILITIES:**

New telecommunication facility

Height of tower: 150' \_\_\_\_\_

Type of tower:       Monopole

Self-supporting lattice

Guide wire

Stealth

Other; \_\_\_\_\_

Collocation on existing structure other than a telecommunication facility

Type of structure: \_\_\_\_\_

Height of structure (without antennas): \_\_\_\_\_

Total height of structure with antennas (not including lightning rod): \_\_\_\_\_

Number of antennas: \_\_\_\_\_

Telecommunication ground equipment?       Yes  No

Within existing compound?       Yes  No

Type of ground equipment:       Unmanned shelter

Cabinets

Dimensions of telecommunication ground equipment: \_\_\_\_\_

Height of the telecommunication ground equipment: \_\_\_\_\_

**Review Fee Calculations**

A. Application Fee: .....	\$ <u>300.00</u>
B. Technology Fee (Application Fee x 2.75% or 0.0275).....	\$ <u>8.25</u>
<b>TOTAL (Add lines A and B).....</b>	<b>\$ <u>308.25</u></b>

**MAKE CHECK PAYABLE TO "STAFFORD COUNTY"**

Note: The application fees are for the administrative process and review of this application and do not constitute an approval.

### List of Adjoining Property Owners

Provide a list of the owners as shown on the current real estate tax assessment books of all abutting properties and properties immediately across the street or road from the property subject to this application. If the application applies to only a portion of a parcel, the entire parcel must be the basis for the below listing.

Provide additional pages if needed.

<u>58 30</u> TAX MAP / PARCEL	<u>Kendall, Lillian G. Trustee</u> NAME	
<u>554 Kings Highway</u> MAILING ADDRESS		
<u>Fredericksburg</u> CITY	<u>Virginia</u> STATE	<u>22405-3228</u> ZIP

<u>58C 2 6</u> TAX MAP / PARCEL	<u>County of Stafford</u> NAME	
<u>P.O. Box 339</u> MAILING ADDRESS		
<u>Stafford</u> CITY	<u>Virginia</u> STATE	<u>22555-0339</u> ZIP

<u>58 32</u> TAX MAP / PARCEL	<u>Kaisken, Abdul M.</u> NAME	
<u>612 Kings Highway</u> MAILING ADDRESS		
<u>Fredericksburg</u> CITY	<u>Virginia</u> STATE	<u>22405-3156</u> ZIP

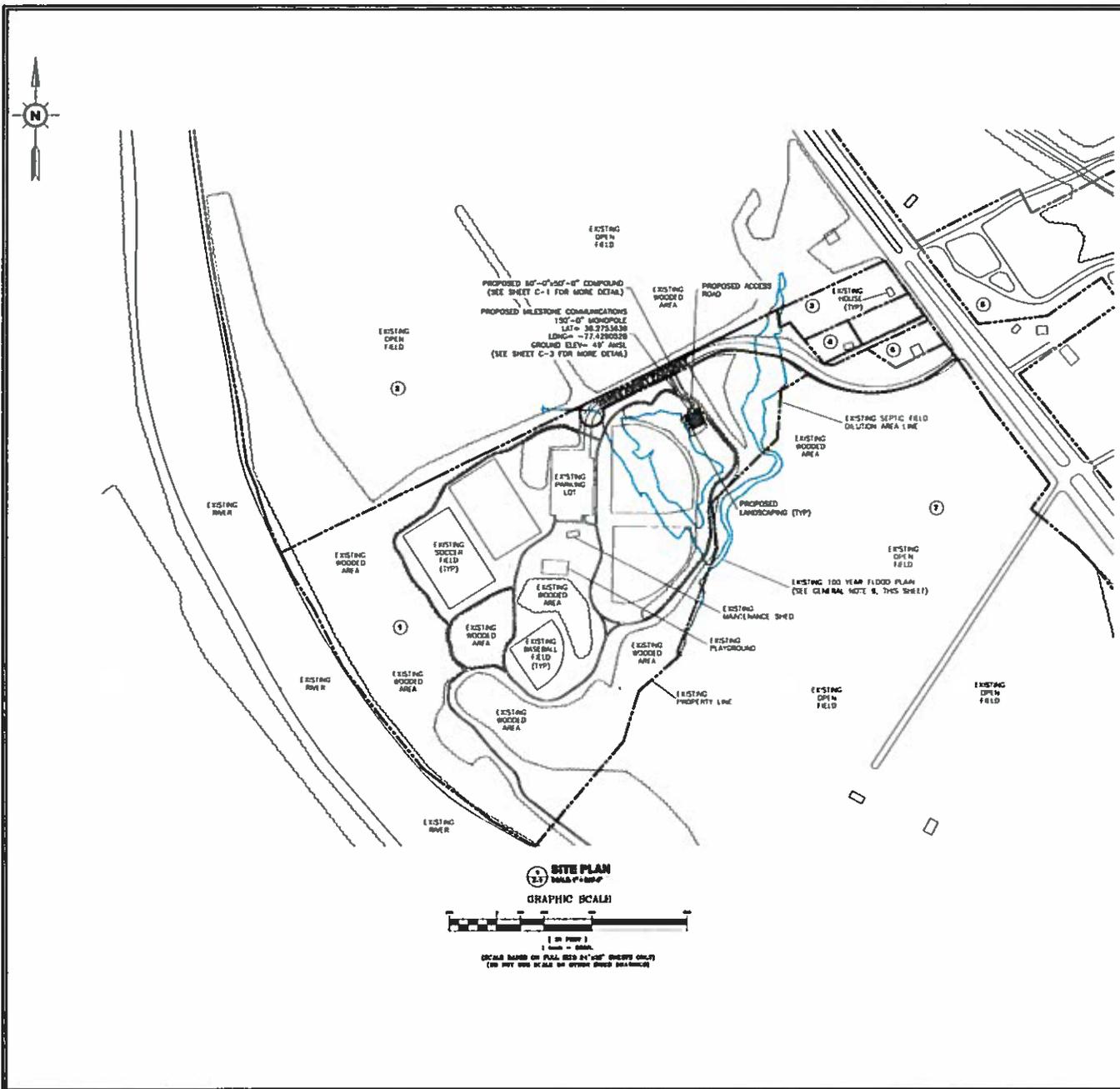
<u>58 34</u>	<u>Williams, William A. &amp; Frances H.</u>	
TAX MAP / PARCEL	NAME	
<u>622 Kings Highway</u>		
MAILING ADDRESS		
<u>Falmouth</u>	<u>Virginia</u>	<u>22405-3156</u>
CITY	STATE	ZIP

<u>58C 2 9</u>	<u>Nichols, Scott V. &amp; Victoria L.</u>	
TAX MAP / PARCEL	NAME	
<u>634 Kings Highway</u>		
MAILING ADDRESS		
<u>Fredericksburg</u>	<u>Virginia</u>	<u>22405-3156</u>
CITY	STATE	ZIP

<u>58C 1 2</u>	<u>Lecouteur, Janet C. &amp; Laprade, Starke J.</u>	
TAX MAP / PARCEL	NAME	
<u>110 Kent Avenue</u>		
MAILING ADDRESS		
<u>Fredericksburg</u>	<u>Virginia</u>	<u>22405-3134</u>
CITY	STATE	ZIP

_____	_____	
TAX MAP / PARCEL	NAME	
_____		
MAILING ADDRESS		
_____	_____	_____
CITY	STATE	ZIP

**SITE PLAN AT 8.5" BY 11"**  
**(12 SETS)**



**GENERAL NOTES:**

1. THIS PLAN WAS PREPARED USING AN APPROVED PLAN DIVIDED SURVEY BY POINT TO POINT LAND SURVEYORS, DATED 08-13-2015 AND SHOULD NOT BE CONSIDERED AS AN ACCURATE SURVEY.
2. THE PROPOSED FACILITY WILL CAUSE THE MINOR INCREASE IN STORMWATER RUNOFF THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
3. NO NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
4. THE FACILITY IS UNINHABITED AND NOT FOR HUMAN HABITATION (THERE IS NO HANDICAP ACCESS REQUIRED).
5. THE FACILITY IS UNINHABITED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
6. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).
7. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE STREET SIGNS OF ANY TYPE.
8. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOIL BARE RECEPTACLES.
9. ACCORDING TO THE FIRM COMMUNITY PANEL #1400300046, DATED 10-18-12, THE PROPOSED SITE IS NOT IN A FLOOD PLAIN.

**ADJACENT PROPERTY OWNER INFORMATION:**

1. OWNER NAME: BOARD OF SUPERVISORS OF STAFFORD COUNTY ADDRESS: 75 JAMES ASHBY PARKWAY FALMOUTH, VIRGINIA 22405 ZONING: A1 TAX ACCOUNT # 80-35A LAND AREA: 58.63 AC.
2. OWNER NAME: 80 NOLL LEE PK. E. TRUETT WARE ADDRESS: 354 WOODS HIGHWAY FALMOUTH, VIRGINIA 22405 ZONING: A1 TAX ACCOUNT # 36-30 LAND AREA: 138.03 AC.
3. OWNER NAME: ANOLA M. HANSEN PHOENIX ADDRESS: 612 WOODS HIGHWAY FALMOUTH, VIRGINIA 22405 ZONING: A1 TAX ACCOUNT # 88-32 LAND AREA: 1.83 AC.
4. OWNER NAME: DR. IRENE D. FRANCES H. WILLIAMS PHOENIX ADDRESS: 673 WOODS HIGHWAY FALMOUTH, VIRGINIA 22405 ZONING: A1 TAX ACCOUNT # 98-36 LAND AREA: 0.87 AC.
5. OWNER NAME: JANE E. EIDENHEIM PHOENIX ADDRESS: 617 WOODS HIGHWAY FALMOUTH, VIRGINIA 22405 ZONING: A1 TAX ACCOUNT # 86C-1-2 LAND AREA: 17.26 AC.
6. OWNER NAME: SCOTT V. & VICTORIA L. NEVILLS PHOENIX ADDRESS: 034 WOODS HIGHWAY FALMOUTH, VIRGINIA 22405 ZONING: A1 TAX ACCOUNT # 86C-2-9 LAND AREA: 0.72 AC.
7. OWNER NAME: COUNTY OF STAFFORD PHOENIX ADDRESS: 030 WOODS HIGHWAY FALMOUTH, VIRGINIA 22405 ZONING: A1 TAX ACCOUNT # 86C-3-0 LAND AREA: 13.31 AC.

**SITE PLAN**

SCALE: 1" = 50'-0"

GRAPHIC SCALE

1" = 50'-0"

1" = 50'-0"

SCALE BASED ON PLAT, SEE 24" X 36" SHEET ONLY

(DO NOT USE SCALE ON OTHER SHEET DRAWINGS)



**Milestone COMMUNICATIONS**  
11110 HUNTER HILLS ROAD, SUITE 100  
BOSTON, VIRGINIA 22114  
TEL: (703) 336-2555  
FAX: (703) 420-0809



**advantage engineers**

200 ANNALE MOORE DRIVE, SUITE 100  
COLUMBIA, VIRGINIA 22026  
PHONE: (800) 897-8888  
WWW.ADVANTAGEENGINEERS.COM

**SCHEDULE OF REVISIONS**

NO.	DATE	DESCRIPTION OF CHANGE
1		
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DESIGNED BY:	TA
CHECKED BY:	
SCALE:	NOTED
JOB NO.:	04-2004-001

**SITE PLAN**

**Z-1**

SHEET NUMBER: 2 OF 8

**SITE INFORMATION:**  
**SITE NAME:**  
**MCDUFF GREEN PARK**  
**SITE ADDRESS:**  
**75 JAMES ASHBY PARKWAY**  
**FALMOUTH, VIRGINIA 22408**

**JURISDICTION:**  
**STAFFORD COUNTY**



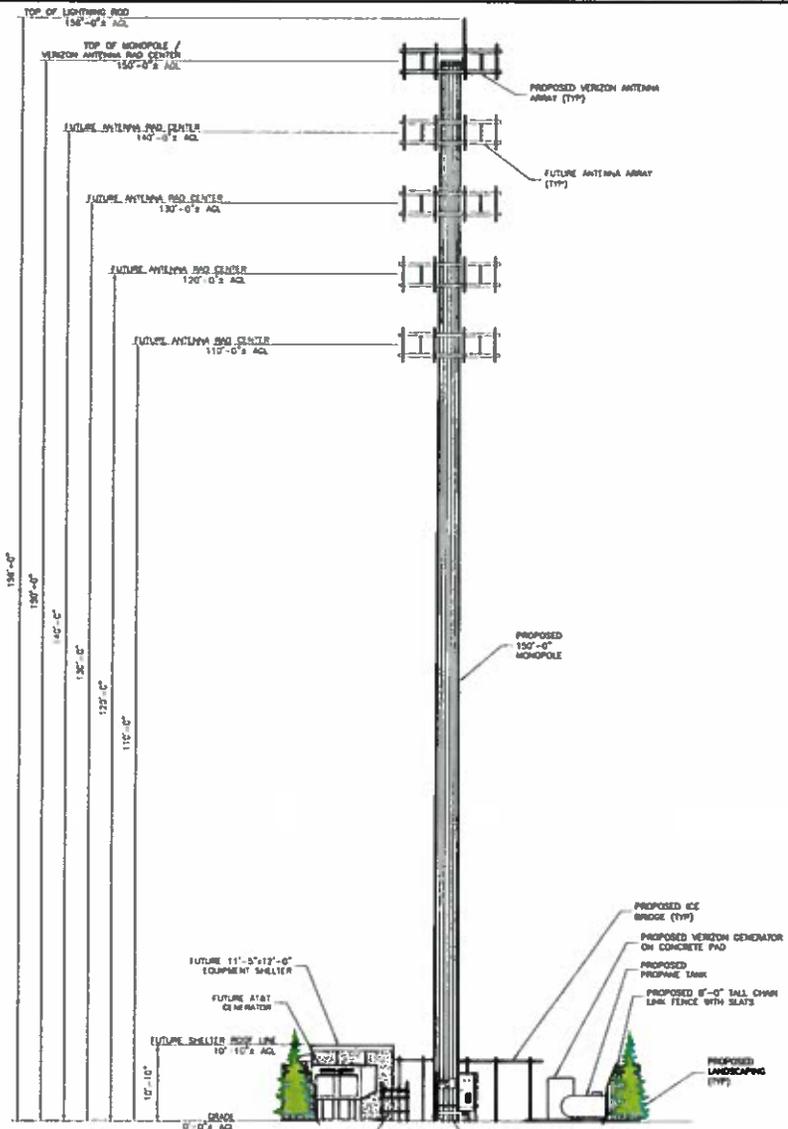
**Know what's below. Call before you dig.**

FOR MORE INFORMATION, VISIT  
WWW.CALLBEFOREYU.DIG.COM  
OR CALL 811



**GREGORY H. MILLER, P.E.**  
LICENSED PROFESSIONAL ENGINEER  
LICENSE NO. 14547

**ELEVATION SHOWING ALL FUTURE ANTENNA LOCATIONS  
(12 SETS)**



DETAILS BASED ON PULL TEST 04/08/07 (SEE SHEET 150-01) (SEE SHEET 150-02 FOR OTHER VIEWED DIRECTIONS)



**Milestone COMMUNICATIONS**  
 11114 BIRCH HILL ROAD, SUITE 100  
 RESTON, VIRGINIA 20190  
 TEL: (703) 638-2555  
 FAX: (703) 638-0889



**advantage engineers**

200 HUNTER HOLLOW DRIVE, SUITE 100  
 COVINGTON, MISSISSIPPI 38932  
 PHONE: (662) 837-0800  
 WWW.ADVANTAGEENGINEERS.COM

**SCHEDULE OF REVISIONS**

NO.	DATE	DESCRIPTION OF CHANGE
1		
2		
3		
4		
5		
6		
7	08-11-16	ISSUED FOR PERMITS
8	08-15-16	ISSUED FOR PERMITS (REVISED)

DRAWN BY: TA  
 CHECKED BY:  
 SCALE: NOTED  
 JOB NO: 082004000

**DRAWING TITLE**  
**ELEVATION**

**DRAWING SHEET:**  
**C-3**

**SHEET NUMBER:**  
**5 OF 6**

**SITE INFORMATION:**  
**SITE NAME:**  
**MCDUFF GREEN PARK**  
**SITE ADDRESS:**  
**75 JAMES ASHBY PARKWAY**  
**FALMOUTH, VIRGINIA 23046**  
**JURISDICTION:**  
**STAFFORD COUNTY**

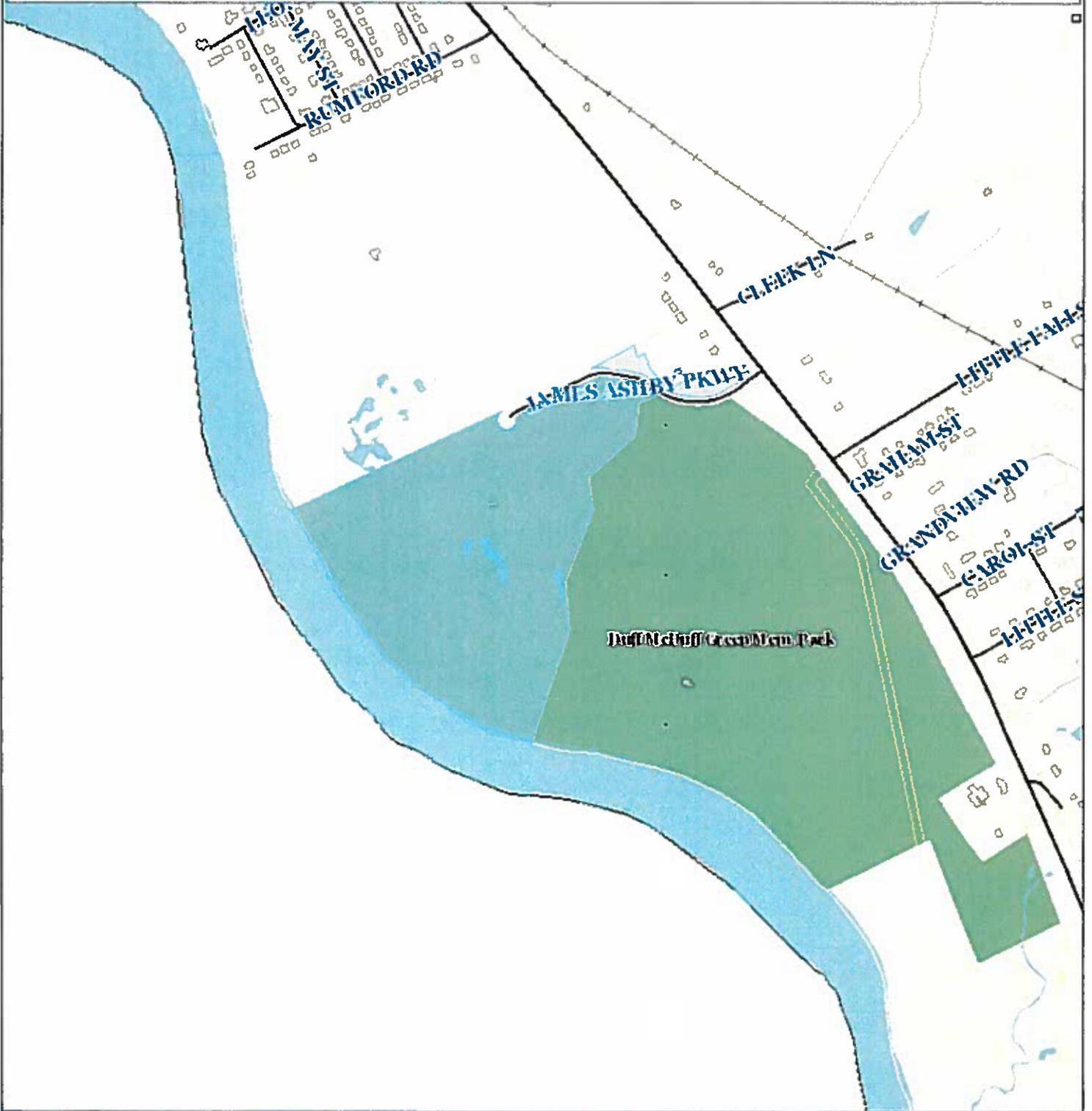


**ANDREW G. MILLER, P.E.**  
 LICENSE NO. 10000  
 STATE OF VIRGINIA  
 MECHANICAL ENGINEERING  
 LICENSED 4/13/15

## **PARCEL MAP AND PROPERTY DETAILS**

# McDuff Green Park

Parcel 58 35A 75 James Ashby Parkway



- Road
  - Municipalities
  - 100 yr Floodplain
  - (-----) Easements
  - Rail
  - Parcels
  - ( ) Soils
- Maps are not from actual survey



06/17/2015  
Scale 1:9600

Scott Mayausky - Commissioner of the Revenue  
**Stafford County, Virginia**

Property Detail	
<b>BOARD OF SUPERVISORS STAFFORD COUNTY</b> <b>PO BOX 339</b> <b>STAFFORD, VA 22555-0339</b>	<b>Property ID</b> 58 35A <b>Alternate ID</b> 38929 <b>Address</b> 75 JAMES ASHBY PKWY <b>Property Class</b> 74-Local Govt <b>Neighborhood</b> 580000 MAIN MAP 58 <b>Deeded Acres</b> 58.6487

Value History								
Year	Reason	Appraised			Assessed			
		Land	Improvements	Total	Land	Land Use	Improvements	Total
2014	*Reassessment	\$1,173,000	\$329,500	<b>\$1,502,500</b>	\$1,173,000	\$0	\$329,500	<b>\$1,502,500</b>
2012	*Reassessment	\$1,173,000	\$329,500	<b>\$1,502,500</b>	\$1,173,000	\$0	\$329,500	<b>\$1,502,500</b>
2010	*Reassessment	\$1,173,000	\$329,500	<b>\$1,502,500</b>	\$1,173,000	\$0	\$329,500	<b>\$1,502,500</b>
2008	*Reassessment	\$1,466,200	\$329,500	<b>\$1,795,700</b>	\$1,466,200	\$0	\$329,500	<b>\$1,795,700</b>
2006	*Reassessment	\$733,800	\$329,500	<b>\$1,063,300</b>	\$733,800	\$0	\$329,500	<b>\$1,063,300</b>
2004	2004 Reassessment	\$490,600	\$329,500	<b>\$820,100</b>	\$490,600	\$0	\$329,500	<b>\$820,100</b>
2002		\$417,600	\$323,000	<b>\$740,600</b>	\$417,600	\$0	\$323,000	<b>\$740,600</b>

Sales History										
Book	Page	Doc Num	Date	Owner	Grantee	Type	Deed	Validity	Vacant Land	Sale Price
B1040	P656		6/1/1994		BOARD OF SUPERVISORS STAFFORD COUNTY				Yes	\$0

Land Details					
Primary Use	Land Type	Acres	Eff Frontage	Eff Depth	Appr Value
	WF	48.6487	0.00	0.00	\$973,000
	SI	10.0000	0.00	0.00	\$200,000

Legal Description	
Description	
PARCELS A1 A2 58.6487 AC	
(57.1684 AC & 1.4803 AC)	
DUFF MCDUFF GREEN PARK	

**C01 - Extension Details**

**Address** 75 JAMES ASHBY PKWY

**Scale:** 25 ft

01

Duff McDuff Green Memorial Park

(11/12)

<<< JAMES ASHBY PKWY >>>  
<<< KINGS HWY >>>

**Attribute**

Story	Use	Attribute	Code	Detail
	0	Class	1	Wood frame

**Exterior Features**

Code	Description	Story	Size	Heated	AC
PARK	0		0.00	0	0

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General Info		
BOARD OF SUPERVISORS STAFFORD COUNTY PO BOX 339 STAFFORD VA 22555-0339	Property ID	58 35A
	Alternate ID/PIN	38929
	Address	75 JAMES ASHBY PKWY
	Property Class	74-Local Govt
	Neighborhood	580000 MAIN MAP 58
	Deed Acres	58.6487

Value History							
Year	2014	2012	2010	2008	2006	2004	2002
Reason	*Reassessment	*Reassessment	*Reassessment	*Reassessment	*Reassessment	2004 Reassessment	
Land Val	\$1,173,000	\$1,173,000	\$1,173,000	\$1,466,200	\$733,800	\$490,600	\$417,600
Imp Val	\$329,500	\$329,500	\$329,500	\$329,500	\$329,500	\$329,500	\$323,000
Total Appr	\$1,502,500	\$1,502,500	\$1,502,500	\$1,795,700	\$1,063,300	\$820,100	\$740,600

Sales History									
Book	Page	Doc Num	Date	Grantor	Grantee	Type	Vacant Land	Sale Price	
B1040	P656		6/1/1994		BOARD OF SUPERVISORS STAFFORD COUNTY		Yes	\$0	

Extension Details																
<p><b>C01</b></p> <p>Scale: 20 ft</p> <p style="text-align: center;">01</p> <p style="text-align: center;">Duff Mc Duff Green Memorial Park</p> <p style="text-align: center;">(11/12)    &lt;&lt;&lt; JAMES ASHBY PKWY &gt;&gt;&gt;                      &lt;&lt;&lt; KINGS HWY &gt;&gt;&gt;</p> <p>Address: <u>75 JAMES ASHBY PKWY</u></p>	<table border="1"> <thead> <tr> <th colspan="5">Attributes    Floor Areas    Exterior Features</th> </tr> <tr> <th>Story</th> <th>Use</th> <th>Attribute</th> <th>Code</th> <th>Detail</th> </tr> </thead> <tbody> <tr> <td></td> <td>Class</td> <td></td> <td>1</td> <td>Wood frame</td> </tr> </tbody> </table>	Attributes    Floor Areas    Exterior Features					Story	Use	Attribute	Code	Detail		Class		1	Wood frame
Attributes    Floor Areas    Exterior Features																
Story	Use	Attribute	Code	Detail												
	Class		1	Wood frame												

Click the right and left arrows to view any available Photos or Sketches on the property.

Improvements
Improvements do not exist for this account.

Land Details	
Land Type	Acres

WF-WATER FRONT	48.65
SI-SITE IMPROVED	10.00

Legal Descriptions	
	Description
PARCELS A1 A2 58.6487 AC	
(57.1684 AC & 1.4803 AC)	
DUFF MCDUFF GREEN PARK	

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## **RF JUSTIFICATION AND NON-INTERFERENCE STATEMENT**



May 29, 2015

**Statement of Certified Engineer  
Site Selection and Performance Standards**

Site Name: Tide Water Trail  
Site Address: 75 James Ashby Parkway, Fredericksburg, VA 22405

The proposed site was selected by Verizon Wireless to provide and improve wireless coverage along Tidewater Trail and Kings Highway. It would also improve service for customers using nearby recreational areas and enhance in-building coverage for residents and business near the proposed site.

In addition to filling a gap in coverage, the site will have the added benefit of offloading some of the traffic on neighboring sites so that service such as throughput speeds do not degrade in the area they are intended to serve.

In summary, the proposed Tidewater Trail site will resolve the need for adequate coverage in the area surrounding the proposed site and also ensure adequate overlapping coverage between and among existing Verizon sites. Ultimately, it will also allow residents and commuters to experience better quality and diminished drop calls. The propagation maps attached to the application and prepared by an RF Engineer illustrate the improved coverage that will result with the addition of the new telecommunications site.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Boykins", is written over a horizontal line that extends to the right.

Shawn Boykins  
Radio Frequency Engineer  
9000 Junction Drive  
Annapolis Junction, MD 20701



---

June 2, 2015

Verizon Wireless  
9000 Junction Drive  
Annapolis Junction, MD 20701  
Shawn.Boykins@VerizonWireless.com

RE: Verizon Wireless  
Tidewater Trail  
75 James Ashby Parkway  
Fredericksburg, VA 22405

Latitude: 38°-16'-31.37" N, Longitude: 77°-25'-44.59" W, Datum Reference: NAD83  
Ground Elevation: 65 feet, Rad Center: 45 feet, Azimuths: 0°, 120°, 240°  
Transmit Frequencies: 880-894 MHz, 1945-1950 MHz, 1970-1975 MHz, 746-757 MHz, 2120-2140 MHz  
Maximum Effective Radiated Power: 500 watt ERP (850 MHz band carrier), 1640 watt EIRP (PCS band carrier), 1000 watt ERP/MHz (700 MHz LTE), 1640 watt EIRP/MHz (2100MHz AWS)

To whom it may concern,

Verizon Wireless operates a Personal Communication Service authorized by the Federal Communications Commission (FCC) to provide state of the art digital wireless communications in many parts of the nation, including Fredericksburg, VA. Verizon Wireless' operations and network are licensed and regulated by the FCC.

The antennas, as proposed and designed for the above noted site, are in compliance with all applicable FCC requirements. The proposed communications facility will not cause any disruptive interference with any transmitter or receiver that will co-exist at, on or near the same communications structure. It will not interfere with emergency services. In the unlikely event of any suspected interference related problems, Verizon Wireless will investigate performance related problems and take measures to see that their systems are operating in full compliance with FCC regulations. In addition, the proposed site meets all applicable ANSI/IEEE C95.1-1992 exposure levels, as adopted by the FCC requirements.

Verizon Wireless is committed to compliance with all government regulations and standards. Please contact Verizon Wireless if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Boykins", with a long horizontal line extending to the right.

Shawn Boykins  
RF Design Engineer, Verizon Wireless

## **ANTENNA SPECIFICATION SHEETS**



## HBXX-6516DS-VTM

**DualPol® Quad Teletilt® Antenna, 1710–2180 MHz, 65° horizontal beamwidth, RET compatible**

- Fully supports PCS 1900, GSM 1800, UMTS 2100, and AWS spectrum
- Each DualPol® array can be independently adjusted for greater flexibility
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Ideal choice for site collocations and tough zoning restrictions
- Great solution to maximize network coverage and capacity

### Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	17.7	18.0	18.0
Beamwidth, Horizontal, degrees	67	65	63
Beamwidth, Vertical, degrees	7.5	7.0	6.5
Beam Tilt, degrees	0–10	0–10	0–10
USLS, typical, dB	18	18	18
Front-to-Back Ratio at 180°, dB	30	30	30
Isolation, dB	30	30	30
VSWR   Return Loss, dB	1.4:1   15.6	1.4:1   15.6	1.4:1   15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350
Polarization	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm
Lightning Protection	dc Ground	dc Ground	dc Ground

### Mechanical Specifications

Color   Radome Material	Light gray   PVC, UV resistant
Connector Interface   Location   Quantity	7-16 DIN Female   Bottom   4
Wind Loading, maximum	419.5 N @ 150 km/h 94.3 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h   149.8 mph

### Dimensions

Depth	166.0 mm   6.5 in
Length	1294.00 mm   50.94 in
Width	305.00 mm   12.01 in
Net Weight	13.90 kg   30.64 lb

### Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 1.1 Actuator HBXX-6516DS-R2M

Model with Factory Installed AISG 2.0 Actuator HBXX-6516DS-A2M

### Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)



## LNX-6515DS-VTM

DualPol® Antenna, 698–896 MHz, 65° horizontal beamwidth, RET compatible

- Excellent choice to maximize both coverage and capacity in suburban and rural applications
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- Exceptional horizontal pattern roll-off and strong front-to-back ratio
- Extended bandwidth allows one antenna to serve multiple frequency allocations
- Great solution to maximize network coverage and capacity
- The RF connectors are IP67 rated and the radome is IP56 rated

### Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	16.7	17.6
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Horizontal Tolerance, degrees	±2	±2
Beamwidth, Vertical, degrees	9.6	8.6
Beam Tilt, degrees	0–8	0–8
USLS, typical, dB	17	17
Front-to-Back Ratio at 180°, dB	32	27
CPR at Boresight, dB	24	24
CPR at Sector, dB	10	10
Isolation, dB	30	30
VSWR   Return Loss, dB	1.4:1   15.6	1.4:1   15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	400	400
Polarization	±45°	±45°
Impedance	50 ohm	50 ohm
Lightning Protection	dc Ground	dc Ground

### Mechanical Specifications

Color   Radome Material	Light gray   Fiberglass, UV resistant
Connector Interface   Location   Quantity	7-16 DIN Female   Bottom   2
Wind Loading, maximum	878.0 N @ 150 km/h 197.4 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h   149.8 mph

### Dimensions

Depth	181.0 mm   7.1 in
Length	2449.00 mm   96.42 in
Width	301.00 mm   11.85 in
Net Weight	22.80 kg   50.27 lb

### Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 1.1 Actuator LNX-6515DS-R2M

Model with Factory Installed AISG 2.0 Actuator LNX-6515DS-A1M

### Regulatory Compliance/Certifications