



FAIRFAX COUNTY PARK AUTHORITY



M E M O R A N D U M

TO: Chairman and Members
Park Authority Board

REVISED – 9/28/16

VIA: Kirk W. Kincannon, Executive Director

FROM: Todd Brown, Director
Park Operations Division

DATE: September 22, 2016

Agenda

**Park Operations Committee
Wednesday, September 28, 2016 – 5:45 p.m.
Boardroom – Herrity Building
Chairman: Edward R. Batten, Sr.
Vice Chair: Linwood Gorham**

1. Idylwood Park – Mastenbrook Volunteer Matching Fund Grant Request – Falls Church Kiwanis Little League – Action*
2. Green Spring Gardens – Mastenbrook Volunteer Matching Fund Grant Request – Friends of Green Spring – Action*
3. *Mount Vernon District Park – Mastenbrook Volunteer Matching Fund Grant Request – Mid-Atlantic Off Road Enthusiasts – Action* - DEFFERED*
4. Grist Mill Park – Mastenbrook Volunteer Matching Fund Grant Request – Gunston Soccer Association – Action*
5. Bren Mar Park and Turkeycock Run Stream Valley Park – Mastenbrook Volunteer Matching Fund Grant Request – Overlook Foundation – Action*
6. Pine Ridge Park – Mastenbrook Volunteer Matching Fund Grant Request – Annandale North Springfield Little League – Action*
7. Energy Management Plan Update – Information* (with presentation)

*Enclosures



If accommodations and/or alternative formats are needed, please call (703) 324-8563. TTY (703) 803-3354

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Board Agenda Item
October 13, 2016

ACTION

Idylwood Park – Mastenbrook Volunteer Matching Fund Grant Program Request – Falls Church Kiwanis Little League (Providence District)

ISSUE:

Approval of a Mastenbrook Volunteer Matching Fund Grant Program request from Falls Church Kiwanis Little League in the amount of \$6,126.52 to install concrete pads on field 3 and replace fencing on field 2 at Idylwood Park.

RECOMMENDATION:

The Park Authority Director recommends approval of the Mastenbrook Volunteer Matching Fund Grant Program request from Falls Church Kiwanis Little League in the amount of \$6,126.52 to install concrete pads on field 3 and replace fencing on field 2 at Idylwood Park.

TIMING:

Board action is requested on October 13, 2016, in order to award the grant.

BACKGROUND:

Falls Church Kiwanis Little League (FCKLL) is requesting to install concrete pads to improve player and spectator conditions on field 3, and replace the player and spectator area fencing with taller fencing to improve safety and ball containment on field 2 at Idylwood Park (Attachment 1). Installing concrete pads on field 3 is consistent with how new fields are built at present, and will also increase maintenance efficiencies along with improving conditions for the players and spectators. Ten foot fencing will be installed in front of the dugout and spectator areas on field 3 which will raise the height of the fence up to our current standard for diamond fields for this type of fencing.

FCKLL is requesting \$6,126.52 from the Mastenbrook Volunteer Matching Fund Grants Program to help fund the completion of the project (Attachment 2). If approved, the \$6,126.52 from the Mastenbrook Volunteer Matching Fund Grants Program, along with a \$6,126.53 contribution from FCKLL, will provide the funds sufficient to complete the project. The total project budget is \$12,253.05.

FCKLL has been a participant in the Adopt-A-Field program for several years, and over the years has contributed funds towards maintenance and athletic field improvements

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for fields at Westgate and Idylwood Parks as well as many other park and school athletic fields.

The Park Authority Board Member for the Providence District supports approval of the Grant request. Staff from the Park Operations Division will manage the project, which is scheduled for completion by the fall of 2016. Matching funds are available to complete this project.

FISCAL IMPACT:

The estimated total project cost is \$12,253.05. Funds are currently available in the amount of \$6,126.52 in WBS PR-000009, Community Parks/New Facilities-2012, in Fund 300-C30400, Park Authority Bond Construction; and \$6,126.53 from FCKLL, resulting in the total available funding of \$12,253.05.

Contingent on the approval of this project, the remaining balance in the Mastenbrook Volunteer Matching Fund Grant Program will be \$214,955.09.

ENCLOSED DOCUMENTS:

Attachment 1: Aerial Showing Grant Project Area at Idylwood Park

Attachment 2: Mastenbrook Volunteer Matching Fund Grant Program Request – Falls Church Kiwanis Little League

STAFF:

Kirk W. Kincannon, Executive Director

Sara Baldwin, Deputy Director/COO

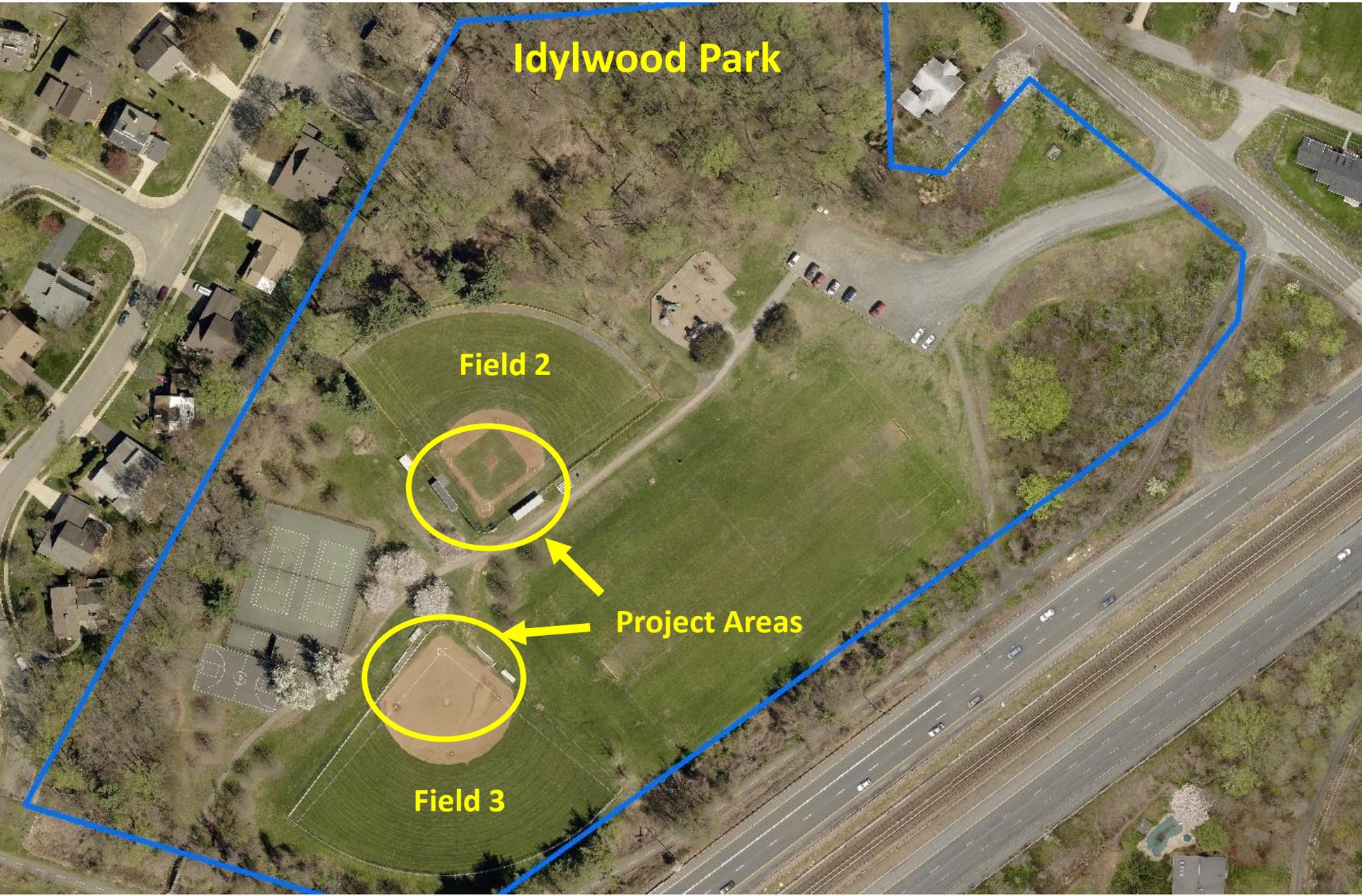
Aimee L. Vosper, Deputy Director/CBD

Todd Brown, Director, Park Operations Division

Dan Sutherland, Manager, Park Management Branch, Park Operations Division

Janet Burns, Senior Fiscal Manager

Michael P. Baird, Manager, Capital and Fiscal Services



Idylwood Park

Field 2



Project Areas



Field 3



Mastenbrook Volunteer Matching Fund Grants Program Application Form

PLEASE PRINT. Please provide all information requested. You may attach additional sheets and/or materials to support your request.

1. Grantee Information

Name of Individual or Organization: FALLS CHURCH KIWANIS LITTLE LEAGUE

Contact Person: BRANDON MILHORN

Mailing Address: P.O. Box 6612, Falls Church, VA 22040-6612

Phone: (703) 347-4927 (c); (703) 841.5764 (w)

Fax: () -

2. Project

Title: Idylwood Park DIAMOND IMPROVEMENTS

3. Funding Requested

Amount \$ 6126.52 (50% of concrete and fencing work).
(Applicant may request more than one project per fiscal year, the combined total not to exceed \$20,000.)

4. Project Description

Provide a description of your project. (Attach drawings or specification of *materials*/proposed for purchase. If *educational materials* are proposed, provide a mock up or example of how the product will look, how it will be posted or distributed, and an example of the content. Provide a detailed map and other visual materials, site plan, drawings, photos, cross sections or a mock up of your project and what the finished product will look like.) Provide as much detail as you can to help evaluators clearly understand your project.

- Improve dugout and spectator areas at Idylwood 3 by adding a concrete floor/base in dugouts and around backstop. Expand dugouts by an additional foot and prepare for roof installation.
- Improve fence at Idylwood 2 by increasing height along base paths to Park Authority standard.

-over-

5. Public Benefits

Explain why your project is important and why it is needed? Who are the intended users? How will the public benefit? How many and what different types of users do you expect? How does this project provide new recreational opportunities for the intended users? Does your project solve a problem or provide important missing services? If your project provides for people with disabilities, in what way?

The improvements at Idylwood 2/3 will increase playability at both locations (particularly in the event of rain) and will provide increased spectator and participant safety/enjoyment.

6. Sponsor Commitment

What experience do you or the organization have in accomplishing similar projects? Who will be responsible for organizing and assigning the work to insure successful project completion? You will need to document all project expenditures. What is your plan for documenting the work (photographs, video, written documentation, etc.)? What is your plan, if any, for long-term maintenance of your project after it is completed?

FCKLL has a long history of protecting and Maintaining Park Authority fields. We regularly cooperate with the Park Authority to make field improvements, most recently by renovating and fencing Idylwood 3, providing seeding and turf maintenance at Jefferson Village, and through our ongoing maintenance of Westgate 1. We have adopted Westgate 1, and Idylwood 2/3, and have field-of-field agreements for 2 fields at the Lois Center (FCPS). We coordinated closely with

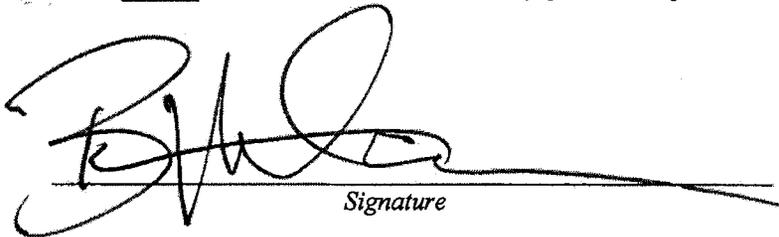
7. Proposed Budget

You will need to provide a detailed and complete budget. Provide enough detail for evaluators to understand exactly what grant funds will be used for, how you arrived at the prices for services, labor, materials, equipment, etc., and the same level of detail about the amount and source of matching funds.

\$14,797.25 (including maintenance shed). Field improvement under grant

The Park Authority prefers to reimburse grantees after the work is completed. Please check one of the following:

- We understand payment by the Park Authority will occur after we complete the project.
- We must have Park Authority grant funds prior to beginning the project.


Signature

13 MAY 2016
Date



ACCUBID
CONSTRUCTION SERVICES, INC.
 Commercial Builders • Class A BLDG & CEM Licensed

- Building & Site Concrete
- Construction Management
- General Contracting

INVOICE

Customer

Name Brandon Milhorn
 Address
 City
 email: Brandon.Milhorn@raytheon.com

Date 3/16/2016
INVOICE #: 15-031602
 Project:
IDYLWOOD PARK BALL FIELD

Qty	Description	Unit Price	TOTAL
100%	Complete - Ball Field #03	\$8,020.00	\$8,020.00

Note: Billed directly per Paul Hagerman FCPA

Payment Details

Balance Due

SubTotal	\$8,020.00
Overhead	
Profit	
TOTAL	\$8,020.00

IF YOU SHOULD HAVE ANY QUESTIONS
 PLEASE CALL AL AT 703-906-1421

THANK YOU!

P.O. Box 474 • Springfield, Virginia 22150
 Phone: (703) 569-5353 • Fax: (703) 569-1948
 E-mail: accubidconcrete@verizon.net

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ACTION

Green Spring Gardens Park – Mastenbrook Volunteer Matching Fund Grant Program Request – Friends of Green Spring Gardens Park (Mason District)

ISSUE:

Approval of a Mastenbrook Volunteer Matching Fund Grant Program request from Friends of Green Spring in the amount of \$20,000 to renovate the glasshouse at Green Spring Gardens Park.

RECOMMENDATION:

The Park Authority Director recommends approval of the Mastenbrook Volunteer Matching Fund Grant Program request from Friends of Green Spring in the amount of \$20,000 to renovate the glasshouse at Green Spring Gardens Park.

TIMING:

Board action is requested on October 13, 2016, in order to award the grant.

BACKGROUND:

The glasshouse at Green Spring Gardens Park is over 30 years old (Attachment 1), and has not received significant improvements in thirteen years. It is used to grow succulents, orchids, and tropical plants from around the world, and hosts classes, field trips, programs, birthday parties, and is a place for general relaxation. The Friends of Green Spring (FROGS) are proposing to make renovations that will make the facility more efficient, accessible and enjoyable for visitors. Improvements to the glasshouse include improved heating, shading for the plants, replacement of deteriorated wooden screening fences, updating the electrical system, making the doors ADA compliant, rebuilding the pergola, and replacing chairs and planters with more modern and newer ones.

FROGS is requesting \$20,000 from the Mastenbrook Volunteer Matching Fund Grants Program to help fund the completion of the project (Attachment 2). If approved, the \$20,000 from the Mastenbrook Volunteer Matching Fund Grants Program, along with a \$23,195 contribution from FROGS, will provide the funds sufficient to complete the project. The total project budget is \$43,195.

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The Park Authority Board Member for the Mason District supports approval of the Grant request. Staff from the Park Operations and Resource Management Division will manage the project, which is scheduled for completion by the winter of 2016. Matching funds are available to complete this project.

FISCAL IMPACT:

The estimated total project cost is \$43,195. Funds are currently available in the amount of \$20,000 in WBS PR-000009, Community Parks/New Facilities-2012, in Fund 300-C30400, Park Authority Bond Construction; and \$23,195 from FROGS, resulting in the total available funding of \$43,195.

Contingent on the approval of this project, the remaining balance in the Mastenbrook Volunteer Matching Fund Grant Program will be \$194,955.09.

ENCLOSED DOCUMENTS:

Attachment 1: Aerial Showing Grant Project Area at Green Spring Gardens Park

Attachment 2: Mastenbrook Volunteer Matching Fund Grant Program Request –
Friends of Green Spring

STAFF:

Kirk W. Kincannon, Executive Director

Sara Baldwin, Deputy Director/COO

Aimee L. Vosper, Deputy Director/CBD

Todd Brown, Director, Park Operations Division

Cindy Walsh, Director, Resource Management Division

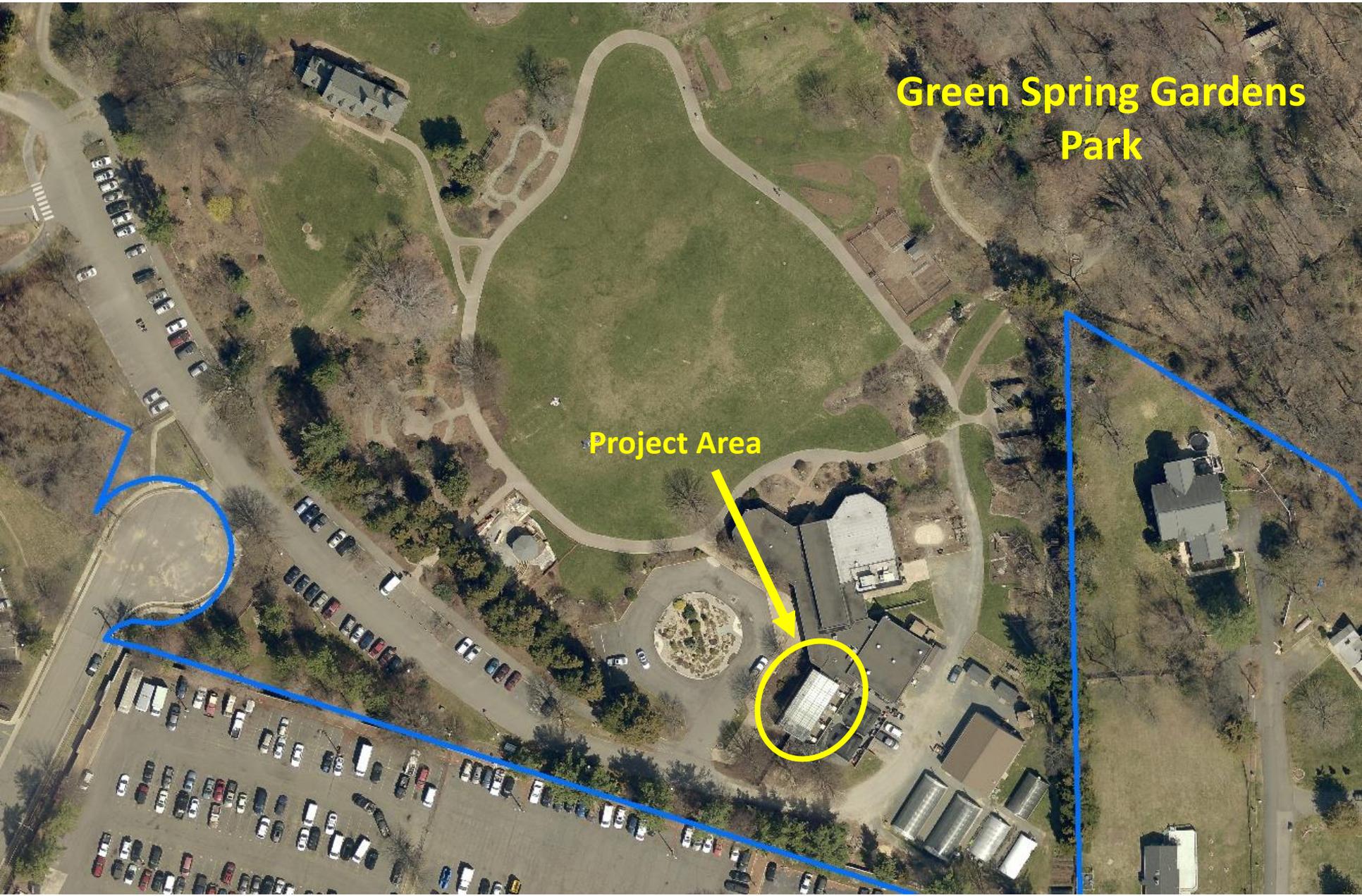
Dan Sutherland, Manager, Park Management Branch, Park Operations Division

Janet Burns, Senior Fiscal Manager

Michael P. Baird, Manager, Capital and Fiscal Services

Green Spring Gardens Park

Project Area





Mastenbrook Volunteer Matching Fund Grants Program Application Form

PLEASE PRINT. Please provide all information requested. You may attach additional sheets and/or materials to support your request.

1. Grantee Information

Name of Individual or Organization: **Friends of Green Spring (FROGS)**

Contact Person: **Mary Jane Medeiros, President**

Mailing Address: **4603 Green Spring Road, Alexandria, VA 22312**

Phone: **(703) 642-5173**

Fax: **(703) 653-6605**

2. Project

Title: **Glasshouse Renovation**

3. Funding Requested

Amount **\$20,000**

(Applicant may request more than one project per fiscal year, the combined total not to exceed \$20,000.)

4. Project Description

Provide a description of your project. (Attach drawings or specification or *materials/proposed* for purchase. If *education materials* are proposed, provide a mock up or example of how the product will look, how it will be posted or distributed, and an example of the content. Provide a detailed map and other visual materials, site plan, drawings, photos, cross sections or a mock up of your project and what the finished product will look like.) Provide as much detail as you can to help evaluators clearly understand your project.

Please see Attachment A

5. Public Benefits

Explain why your project is important and why it is needed? Who are the intended users? How will the public benefit? How many and what different types of users do you expect? How does this project provide new recreational opportunities for the intended users? Does your project solve a problem or provide important missing services? If your project provides for people with disabilities, in what ways?

Please see Attachment B

6. Sponsor Commitment

What experience do you or your organization have in accomplishing similar projects? Who will be responsible for organizing and assigning the work to insure successful project completion? You will need to document all project expenditures. What is your plan for documenting the work (photographs, video, written documentation, etc.)? What is your plan, if any, for long-term maintenance of your project after it is completed?

Please see Attachment C

7. Proposed Budget

You will need to provide a detailed and complete budget. Provide enough detail for evaluators to understand exactly what grants funds will be used for, how you arrived at the prices for services, labor, materials, equipment, etc., and the same level of detail about the amount and source of matching funds.

The Park Authority prefers to reimburse grantees after the work is completed. Please check one of the following:

We understand payment by the Park Authority will occur after we complete the project.

We must have Park Authority grant funds prior to beginning the project.

Please see Attachment D

Mary Jane Medeiros
FROGS President
June 2, 2016

Friends of Green Spring (FROGS)
Mastenbrook Grant Application – Glasshouse Renovation
June 2, 2016

Attachment A

#4 Project Description:

The Project will renovate the 30 year-old Glasshouse and add improvements that will make the structure more accessible and enjoyable to visit. It will also provide better protection for the valuable plant collection. The plan includes improved heating, shading, replacement of deteriorated wooden structure, water treatment, and features to improve the public's experience.

The Glasshouse was built in 1983 as part of the original Horticulture Center. Today the Glasshouse is a major plant display with engaging arrangements of succulents, orchids, tropical plants from around the world and more. The last improvements were 13 years ago. FCPA invested in a major renovation in the early 2000s to replace the entire glazing system with tempered safety glass. An automated environmental control system linking the heat, cooling and ventilation systems for more consistent temperature control was also installed. Funding from FROGS and a Mastenbrook grant enabled staff to construct the wood structures for screening and plant displays.

During the past few winters, Green Spring Gardens staff has noticed ineffective heat distribution in the Glasshouse. The 13 year-old wood structures are rotting and need to be replaced. The electrical system is over 30 years old and requires updating. The exit door no longer meets ADA requirements. An ability to warm the water for winter-time watering would be beneficial for the plants. With everything dismantled for infrastructure renovation, the Green Spring Gardens staff has the perfect opportunity to update and refresh the plant displays.

Using the plans created in 2002 as a baseline, staff horticulturist in charge of the Glasshouse, Judy Zatsick, created a design for the new structures and developed a budget. Among the new features are rebuilding the pergola with metal or smaller dimension timbers and the surrounding screening fences to mix laser-cut metal sections and horizontally aligned fence sections. The new look will be further enhanced with new trellises for vines and new troughs and pottery containers for the succulent collection and other key specimens.

The last major renovation was implemented by Rough Brothers, a greenhouse design, construction and maintenance company. Representatives from Rough Brothers evaluated current issues and provided quotes for updating these systems: heat distribution, replacing shade cloth, inadequate reverse osmosis (RO) water treatment system, broken mister system and water too cold for some tropical plants. The proposed specialty environment HVAC system will remediate all of the above issues. FROGS and Green Spring Gardens Park Manager recommend using Rough Brothers, a company with the specific expertise and experience with the Glasshouse, to do this work.

Attachment B

#5: Public Benefit

The Green Spring Gardens Glasshouse was built as part of the original Horticulture Center in 1983. The Glasshouse is the only structure of its kind in the Park Authority, and indeed, in Fairfax County. It serves a variety of user groups of all ages, including school children visiting under Title I programs and those whose limited mobility preclude more extensive outside tours of the park gardens. The neighborhood surrounding the park is very diverse, and the park also attracts families and individuals from a wide area, locally, nationally and internationally. Renovations will increase its attractiveness and accessibility.

The Glasshouse is Green Spring's tropical, year-round retreat. Each year it attracts thousands of visitors to a lush oasis of colors and textures provided by a carefully selected, diverse collection of tropical plants, cacti, and other succulents. The Glasshouse also serves as an exciting, cozy classroom for our growing number of school children's field trips; an accessible haven for adults seeking solitude; a studio for photographers in search of rare specimen shots; and a warm, quietly stimulating place for toddlers and parents during their morning outings.

The Glasshouse is also used as a back-up location when school groups, family fun programs and birthday parties cannot go outside due to the weather. The Green Spring Gardens education staff adapts these programs to fit the space, talking about trees, plant needs for pollinators and habitats for amphibians. Even a Beatrix Potter birthday party scavenger hunt has been held in the Glasshouse.

Visitors who attend Historic Green Spring programs receive docent-led tours of the gardens. The Glasshouse is the perfect destination during inclement weather. Private events for all occasions also include this popular benefit.

Upon completion of the renovation, the FROGS Art Committee has plans to revisit using the Glasshouse for another popular "Art in the Garden" program. These unique pieces must withstand the elements, providing the perfect opportunity for patrons to find artwork for their outdoor rooms and gardens. A portion of the proceeds from these art sales goes to the Park for exhibits in the Historic House, Horticulture Center and gardens.

Plans for highlighting the completion of the Glasshouse Renovation will include a grand re-opening that will feature a special lecture during the FROGS sponsored Winter Lecture Series, focusing on conservatories.

Attachment C

#6: Sponsor Commitment

The Glasshouse renovation project is sponsored by FROGS, a 501(c)(3) organization, whose members have been committed supporters of Green Spring Gardens for over twenty years. In its history FROGS has raised over one million dollars and contributed countless volunteer hours in service to Green Spring Gardens. FROGS has demonstrated its capacity to fund and complete many projects that were supported by Mastenbrook funding, dating back to 1999.

FROGS commits to support the Glasshouse renovation project financially and through user-oriented publicity, including promotion and social media. Funding commitments for this project are \$23,229 as outlined in the Proposed Budget section.

Publicity will provide accountability to donors and spur use of the renovated Glasshouse. FROGS plans to document the restoration of this majestic Glasshouse on the FROGS website, Facebook, Twitter and Instagram. FROGS Marketing and Photography committees will be involved. We are committed to keeping our membership informed of the process and progress of this project. Other publicity will be organized with the park manager.

Although FROGS is providing major funding for the project, Mary Olien, park manager, will be the project manager, seeking the expertise of Park Authority colleagues as needed for the systems renovations. FROGS has the capacity to manage purchasing the goods and services required to complete the project. It is expected that long-term maintenance will continue to be Park Authority responsibility.

**Attachment D
#7: Proposed Budget**

Budget

Item	Cost
Heat System	\$ 9,352
Perimeter fin system	\$ -
Sterling Hot Water Heating Units	\$ -
Labor	\$ 11,020
<i>Subtotal</i>	\$ 20,372*
Shade System	
Shade Curtain panel	\$ 373
<i>Subtotal</i>	\$ 373*
Watering System	
Water heater	\$ 800
Humidifier/mister	\$ 1,000
Hoses/bibs/wands	\$ 500
<i>Subtotal</i>	\$ 2,300*
Electrical System	
Wiring, outlets, sockets, conduit	\$ 700
<i>Subtotal</i>	\$ 700*
Interior Furnishings	
Cypress lumber for fencing, benches, pergola	\$ 14,500
Metal screen	\$ 300
Containers	\$ 500
Succulent renovation	\$ 2,000
Table for display	\$ 350
<i>Subtotal</i>	\$ 17,650**
Visitor Amenities	
Music	\$ 400
Chairs	\$ 400
Labels and signage	\$ 1,000
<i>Subtotal</i>	\$ 1,800**
Grand Total	\$ 43,195

*Rough Brothers, Inc., Corporate Headquarters, 5513 Vine Street, Cincinnati, OH 45217

** Green Spring Gardens: Park Manager Mary Olien, Horticulturist Judy Zatsick and Park Specialist I Frank Jankauskas

FROGS 2015 Annual Appeal for the Glasshouse Renovation has received \$23,229 in donations. A Mastenbrook Grant @ \$20,000 will help us complete this entire renovation.

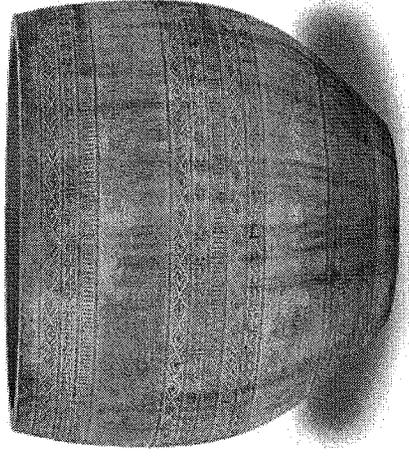
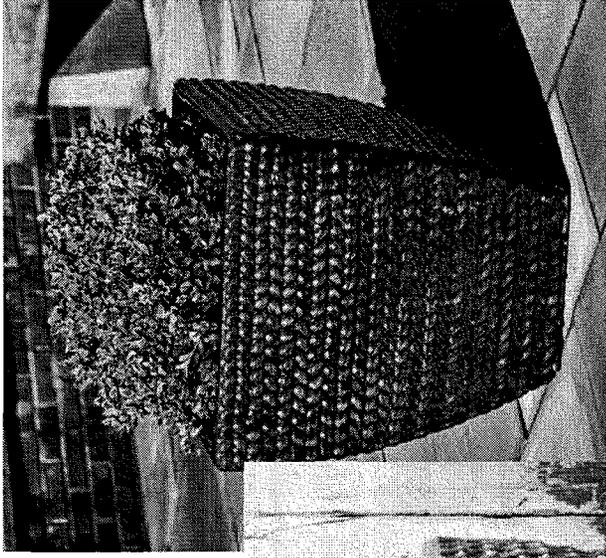
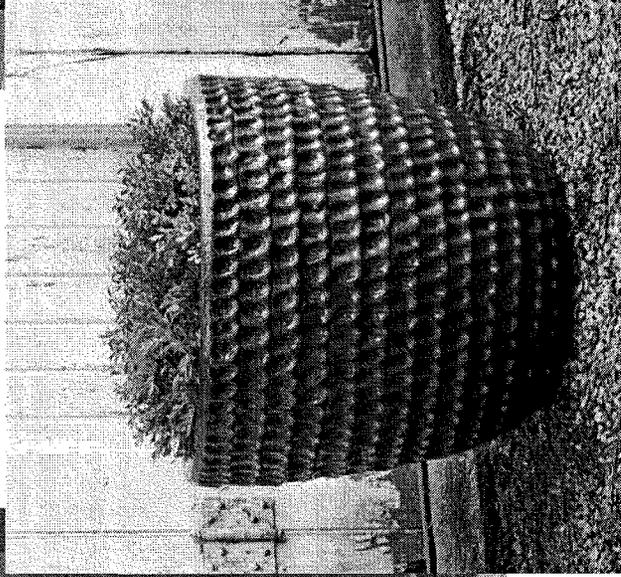
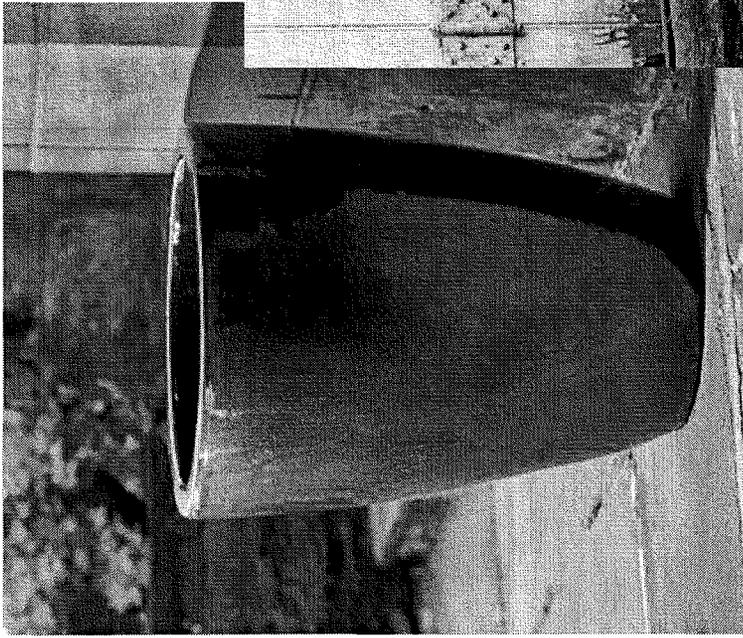


Green Spring Gardens 2016 Glasshouse Renovation

Sponsored by Friends of Green Spring 2015 Annual Appeal



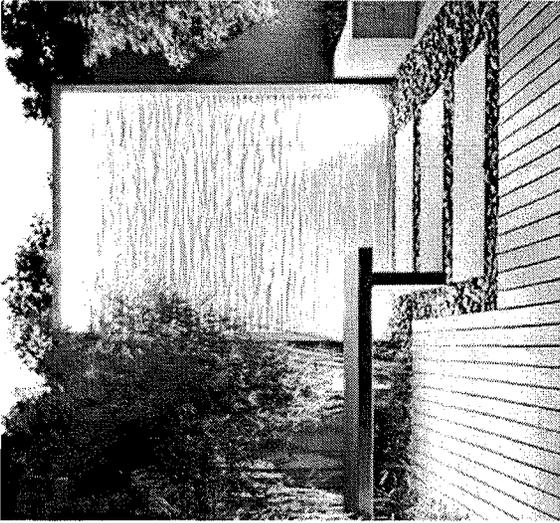
Laser cut metal
screen



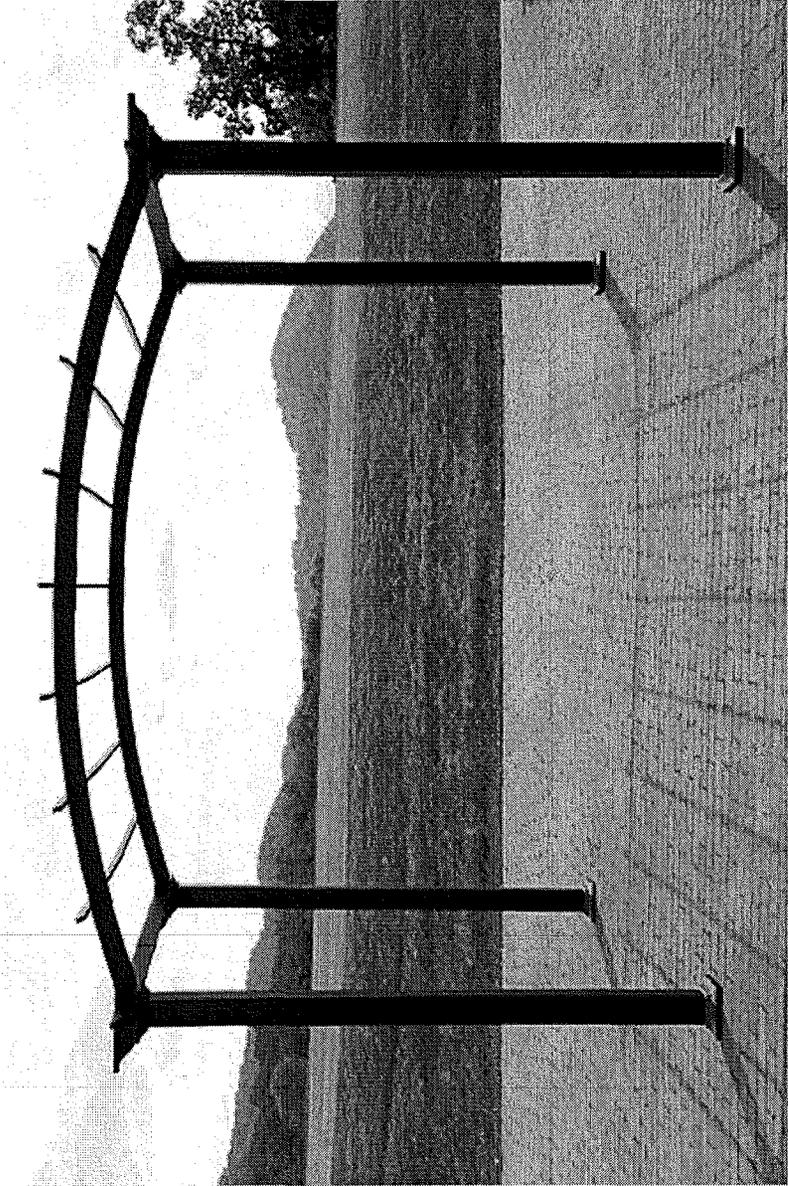
Large accent containers



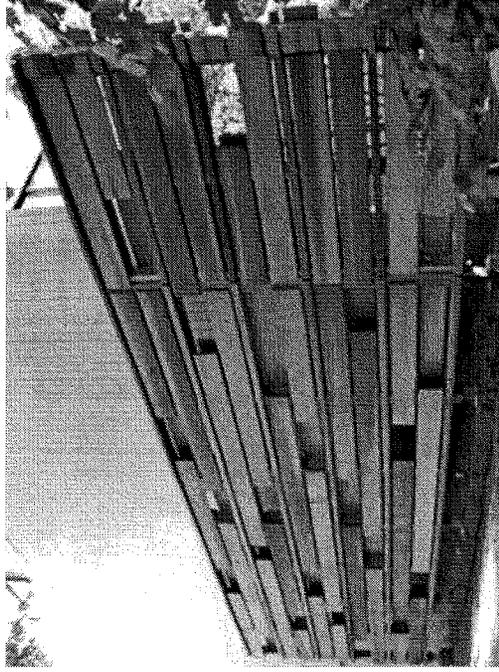
Aluminum chairs



Water feature



Pergola



Fence options



Outside Garden Gate Plant

Shop fence

Glasshouse Renovation Budget

Item	Cost
Heat System	\$ 20,372
Shade System	\$ 373
Watering System	\$ 2,300
Electrical System	\$ 700
Interior Furnishings	\$ 17,650
Visitor Amenities	\$ 1,800
Grand Total	\$ 43,195

Board Agenda Item
October 13, 2016

ACTION

Grist Mill Park – Mastenbrook Volunteer Matching Fund Grant Program Request – Gunston Soccer Club (Mount Vernon District)

ISSUE:

Approval of a Mastenbrook Volunteer Matching Fund Grant Program request from Gunston Soccer Club in the amount of \$14,850 to convert field 6 to Bermuda grass at Grist Mill Park.

RECOMMENDATION:

The Park Authority Director recommends approval of the Mastenbrook Volunteer Matching Fund Grant Program request from Gunston Soccer Club in the amount of \$14,850 to convert field 6 to Bermuda grass at Grist Mill Park.

TIMING:

Board action is requested on October 13, 2016, in order to award the grant.

BACKGROUND:

In an attempt to improve the turf conditions on rectangle field 6 at Grist Mill Park, Gunston Soccer Club (GSC) is proposing to convert the field to Riviera Bermuda grass (Attachment 1). As part of the conversion project, soil amendments will be mixed into the existing soil to improve its physical and chemical properties which should improve its grass growing characteristics. Bermuda grass cultivars, as compared to typical cool-season grass cultivars, generally provide a smoother and more consistent playing surface which is Gunston Soccer Club's primary improvement goal for the conversion project.

GSC is requesting \$14,850 from the Mastenbrook Volunteer Matching Fund Grants Program to help fund the completion of the project (Attachment 2). If approved, the \$14,850 from the Mastenbrook Volunteer Matching Fund Grants Program, along with a \$14,850 contribution from GSC, will provide the funds sufficient to complete the project. The total project budget is \$29,700.

GSC has been a participant in the Adopt-A-Field program for several years, and over the years has contributed funds towards maintenance and athletic field improvements for fields at Grist Mill as well as many other park and school athletic fields. In

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recognition of the additional maintenance and specialized equipment required to maintain a Bermudagrass athletic field, GSC has agreed to maintain the field as a full adoption partner through the Adopt-A-Field Program.

The Park Authority Board Member for the Mount Vernon District supports approval of the Grant request. Staff from the Park Operations Division will manage the project, which is scheduled for completion by the fall of 2016. Matching funds are available to complete this project.

FISCAL IMPACT:

The estimated total project cost is \$29,700. Funds are currently available in the amount of \$14,850 in WBS PR-000009, Community Parks/New Facilities-2012, in Fund 300-C30400, Park Authority Bond Construction; and \$14,850 from GSC, resulting in the total available funding of \$29,700.

Contingent on the approval of this project, the remaining balance in the Mastenbrook Volunteer Matching Fund Grant Program will be \$160,105.09.

ENCLOSED DOCUMENTS:

Attachment 1: Aerial Showing Grant Project Area at Grist Mill Park

Attachment 2: Mastenbrook Volunteer Matching Fund Grant Program Request –
Gunston Soccer Club

STAFF:

Kirk W. Kincannon, Executive Director

Sara Baldwin, Deputy Director/COO

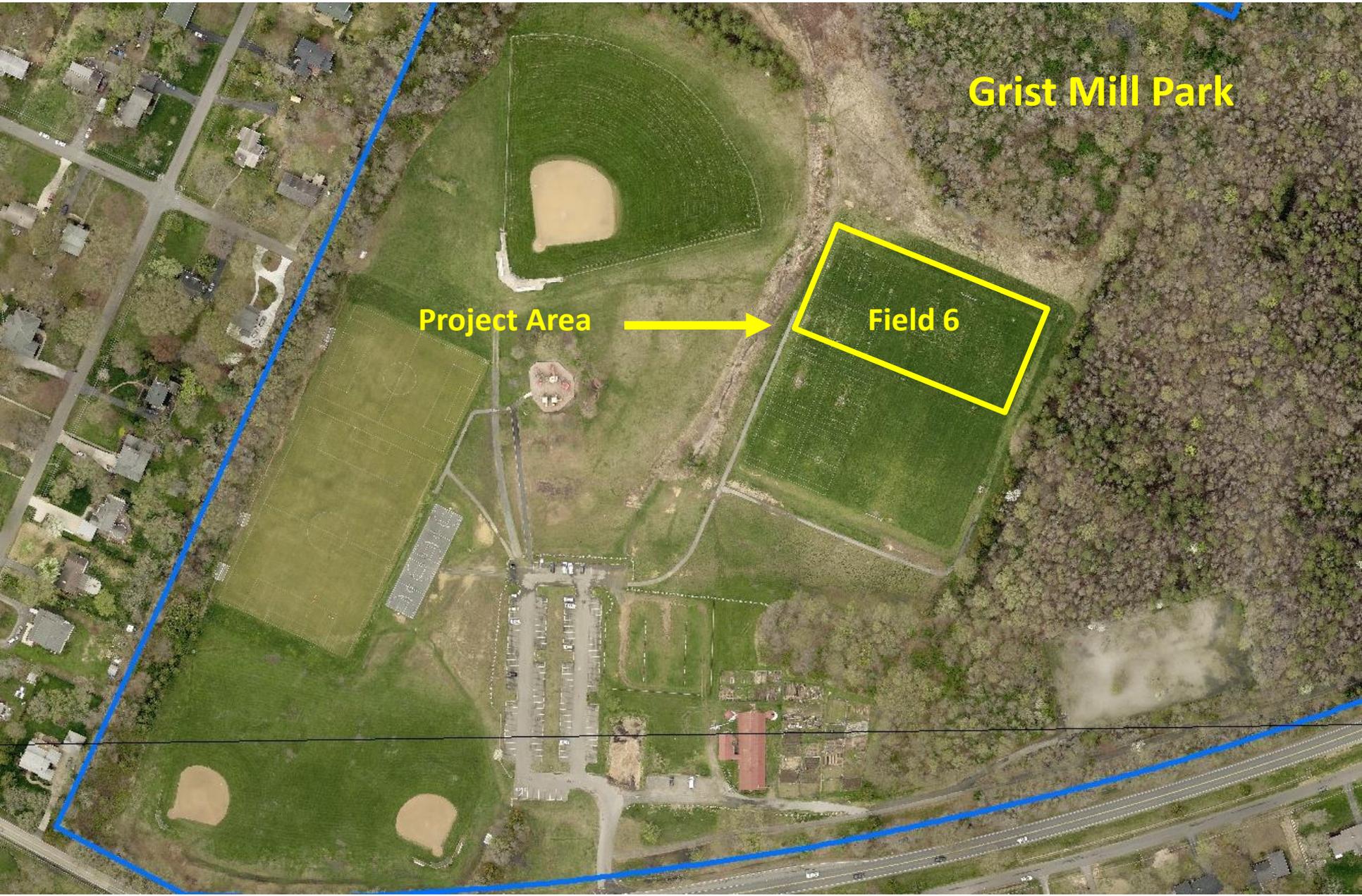
Aimee L. Vosper, Deputy Director/CBD

Todd Brown, Director, Park Operations Division

Dan Sutherland, Manager, Park Management Branch, Park Operations Division

Janet Burns, Senior Fiscal Manager

Michael P. Baird, Manager, Capital and Fiscal Services



Grist Mill Park

Project Area



Field 6



Mastenbrook Volunteer Matching Fund Grants Program Application Form

PLEASE PRINT. Please provide all information requested. You may attach additional sheets and/or materials to support your request.

1. Grantee Information

Name of Individual or Organization: Gunston Soccer Club

Contact Person: Ruben Bolognesi

Mailing Address: 8000 Old Parsonage Court - Alexandria, VA. 22315

Phone: 703 909-9919 cell - 703 550-0012

Fax: ()

2. Project

Title: Grist Mill #6 - Bermuda Conversion

3. Funding Requested

Amount \$ ~~20,000~~ 4,850

(Applicant may request more than one project per fiscal year, the combined total not to exceed \$20,000.)

4. Project Description

Provide a description of your project. (Attach drawings or specification of *materials*/proposed for purchase. If *educational materials* are proposed, provide a mock up or example of how the product will look, how it will be posted or distributed, and an example of the content. Provide a detailed map and other visual materials, site plan, drawings, photos, cross sections or a mock up of your project and what the finished product will look like.) Provide as much detail as you can to help evaluators clearly understand your project.

We are converting grass field Grist Mill #6 to bermuda.

-over-

5. Public Benefits

Explain why your project is important and why it is needed? Who are the intended users? How will the public benefit? How many and what different types of users do you expect? How does this project provide new recreational opportunities for the intended users? Does your project solve a problem or provide important missing services? If your project provides for people with disabilities, in what way?

Grist Mill #6 was considerably damaged when Grist Mill #5 - turf - was built, making the surface not ideal to play the game of soccer. Given the wonderful experience with the bermuda conversion on Grist Mill #4, and the benefits our recreation and travel families were able to take advantage of, converting Grist Mill #6 will continue to provide better playing surfaces for our community.

6. Sponsor Commitment

What experience do you or the organization have in accomplishing similar projects? Who will be responsible for organizing and assigning the work to insure successful project completion? You will need to document all project expenditures. What is your plan for documenting the work (photographs, video, written documentation, etc.)? What is your plan, if any, for long-term maintenance of your project after it is completed?

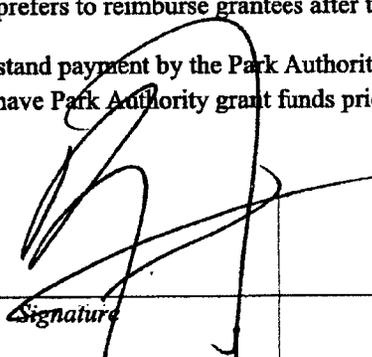
Grist Mill #4 conversion was a total success. Ruben Bolognesi will be the responsible party for this project.

7. Proposed Budget

You will need to provide a detailed and complete budget. Provide enough detail for evaluators to understand exactly what grant funds will be used for, how you arrived at the prices for services, labor, materials, equipment, etc., and the same level of detail about the amount and source of matching funds.

The Park Authority prefers to reimburse grantees after the work is completed. Please check one of the following:

- We understand payment by the Park Authority will occur after we complete the project.
 We must have Park Authority grant funds prior to beginning the project.



Signature

6/21/16

Date

PREMIER SPORTS FIELDS, LLC

Athletic Field Management, Service, Renovation, Construction

May 21, 2016

Mr. Ruben Bolognesi
Gunston Soccer Club
Lorton, VA

Dear Ruben:

It was a pleasure meeting with you all and discussing the renovation of the Grist Mill Park's SoccerField. In order to get this project scheduled for the after June 4, 2016, I am submitting this updated proposal. Now that the synthetic field is complete, I have confirmed that the irrigation is operational in this area. You will need to get FPCA's c/o Dan Sutherland, approval for this field like the last field we renovated.

The following Proposal is for the renovation of a soccer field area measuring 110 yards x 66.66 yards or (330' x 200') or 66,000 total square feet. This area is adjacent to the proposed new synthetic soccer field #5 North side, planned for late spring/summer of 2016. I have revised the pricing and hopefully it will meet your budget goal. I believe the size field you want will fit in the area adjacent to the proposed synthetic field. Irrigation system modifications are not included in our proposal if they are necessary. It is important to the success of the new turf grasses survival that irrigation is operational at all times. We appreciate your business.

Proposal

1. _____ **Grist Mill-rectangle Soccer Fields Renovation**

- Area addressed is approximately 66,000 square feet.
- Install Ronstar weed preventer.
- Install 600' silt fence as required and maintained.
- Grade to follow existing grading present on site as it exists.
- Amend soil with Phosphorous, Potassium and lime as required by soil reports.
- Combine, amend, and grade entire field area (66,000 sq. ft.).
- Stabilize, add 24 tons of topsoil, and grade to establish a uniform, consistent playing surface.
- Install 40 yards of compost.
- Provide fertilization and watering recommendations to push grow-in.
- Mow field until properly grow-in period of 8 weeks. After initial grow in we will submit an annual maintenance proposal for ongoing mowing and turf maintenance.
- Work is for preparation, grading, and sprig with Bermuda grass (Patriot or Premier).

1

The information contained in this quotation or proposal is for the sole use of your company or entity and cannot be distributed or used by any other companies without the authorization of Premier Sports Fields, LLC.

Contractor #2705 079447A VA Pest # 7578 MD Pest # 27692 VA Fert Permit # 57-289809
VA Land Disturber Certificate#32831

PO Box 737, Remington, VA 22712 (800) 241-3302 info@premiersportsfields.com

Total price for the above is \$29,700.00 payable in progressive completed work invoices upon completion (net 30 days). Some line item units have been discounted as a one time offer.

Application AK combine, grind, grade, sprig. \$.45/sf \$29,700.00

Application AEB Compost 40 yds. \$50/yd	Included
Application ADA topsoil 24 tons	Included
Application BCB Silt Fence 600 lin. Ft. \$2.25/lf	Included
Application "BK" soil nutrient test 1 each	Included
Application "VA" Fertilizer 19-19-19 1 acre	Included
Application "AA" Lime 25#/M \$290.00/acre	Included
Application Mow" mowing of new turf 8 weeks	Included
Total: \$29,700.00	

Our Proposal assumes your project obligations:

You will be responsible for all other components as listed below.

- Providing site access to the field. This access must be wide enough to allow dump truck access for topsoil deliveries.
- Irrigation installation/marketing. It is assumed that irrigation is already installed in this proposed new field area. Any irrigation remediation is your responsibility to make sure the system is operational prior to turf grass/sprig installation.
- Sod installation as this is not included in our proposal.
- Typical erosion and sedimentation controls are acceptable, which would not require physical -- structures or components such as catch basins, check dams or culverts.
- Cuts could be accomplished without major obstructions or rocks, and according to our proposal.
- All Permitting as typical as found in adjacent jurisdictions.

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**Contractor #2705 079447A VA Pest # 7578 MD Pest # 27692 VA Fert Permit # 57-289809
VA Land Disturber Certificate#32831**

PO Box 737, Remington, VA 22712 (800) 241-3302 info@premiersportsfields.com

Rock Clause

Any small rock deposits or large rocks that need to be removed to complete our scope of work will be brought to your attention.

The pricing for rock removal or other obstructions are as stated below and will be invoiced in addition to the contract price.

- 1.) 3,000 lb. Hydraulic Powered Ram Breaker: \$215.00 per hour with a \$350 mobilization charge
- 2.) Tri-axle Dump Truck: \$ 90.00 per hour plus one hour travel time. To haul and dispose of rock at a designated FCPA location.

Irrigation Clause

It is assumed that the existing irrigation system is operational and lateral lines have been installed at industry standard depths of 12" to 18" below finished grade. It is also assumed that all existing irrigation has industry standard working components such as; irrigation heads, swing joints, SDR26 irrigation pipe, irrigation controller, and valve boxes. If we find deficient components during our work, it will be brought to your attention. We will make the necessary repairs and charge the customer accordingly, to include a 15% handling fee, so we don't delay our agronomic window of installing the turf grass. If irrigation pipe isn't at proper industry standard depths and our equipment hits your irrigation pipe, it will be your responsibility to pay for the necessary repairs. Once the field receives sod, sprigs, or seed, consistent water will be required and it is your responsibility to supply consistent irrigation and notify us if any interruptions occur.

We appreciate the opportunity of working with your department on this and future fields. A more detailed Proposal can be provided if need be, this proposal serves as a budgeting tool. As soon as a contract or notice to proceed is received, we will schedule your work. A good target date for completion would be July 6st 2016, and the initial construction project would require 15 working days to complete. Sprig grow in will take 60-75 days from completion. It is understood that you will not use the field until fall of 2016. Please review the above, initial each line, and sign the bottom. Should you have any questions, you may reach me at (703) 898-3626.

The staging area for this project will have the topsoil used covered if not spread the same day. Equipment used for the job work will be secured by PSF while being left on site. Securing would include parking all equipment in the same area, all hydraulics relaxed and keys pulled.

Construction Start date June 2016, and grow in completion date on or before August 25, 2016, weather permitting.

I will provide a maintenance and mowing proposal on another contract.

Board Agenda Item
October 13, 2016

ACTION

Bren Mar and Turkeycock Run Stream Valley Parks – Mastenbrook Volunteer Matching Fund Grant Program Request – Overlook Foundation (Mason District)

ISSUE:

Approval of a Mastenbrook Volunteer Matching Fund Grant Program request from Overlook Foundation in the amount of \$7,200 to assist with controlling invasive plants at Bren Mar and Turkeycock Run Stream Valley Parks.

RECOMMENDATION:

The Park Authority Director recommends approval of the Mastenbrook Volunteer Matching Fund Grant Program request from Overlook Foundation in the amount of \$7,200 to assist with controlling invasive plants at Bren Mar and Turkeycock Run Stream Valley Parks.

TIMING:

Board action is requested on October 13, 2016, in order to award the grant.

BACKGROUND:

The Overlook Foundation, Inc. is the management association for the residential communities adjacent to Bren Mar and Turkeycock Run Stream Valley Parks. They are proposing to partner with the Park Authority to remove invasive plants from within both parks in several phases (Attachment 1). The first phase will focus on a significant patch of Kudzu that overlaps both parks. The Overlook Foundation will be partnering with us by providing funding that is needed to hire a contractor to spray the invasive plants, and by providing volunteers to assist with plant removal as they have done in the past with other IMA projects on their property and parkland. When additional funding is raised in the future, they will propose to complete other invasive plant removal projects within the parks.

The Overlook Foundation is requesting \$7,200 from the Mastenbrook Volunteer Matching Fund Grants Program to help fund the completion of the project (Attachment 2). If approved, the \$7,200 from the Mastenbrook Volunteer Matching Fund Grants Program, along with a \$7,200 contribution from the Overlook Foundation, will provide the funds sufficient to complete the project. The total project budget is \$14,400.

Board Agenda Item
October 13, 2016

The Park Authority Board Member for the Mason District supports approval of the Grant request. Staff from the Resource Management Division will manage the project, which is scheduled for completion by the spring of 2017. Matching funds are available to complete this project.

FISCAL IMPACT:

The estimated total project cost is \$14,400. Funds are currently available in the amount of \$7,200 in WBS PR-000009, Community Parks/New Facilities-2012, in Fund 300-C30400, Park Authority Bond Construction; and \$7,200 from Overlook Foundation, resulting in the total available funding of \$14,400.

Contingent on the approval of this project, the remaining balance in the Mastenbrook Volunteer Matching Fund Grant Program will be \$152,905.09.

ENCLOSED DOCUMENTS:

Attachment 1: Aerial Showing Grant Project Area at Bren Mar and Turkeycock Run Stream Valley Parks

Attachment 2: Mastenbrook Volunteer Matching Fund Grant Program Request – Overlook Foundation, Inc.

STAFF:

Kirk W. Kincannon, Executive Director

Sara Baldwin, Deputy Director/COO

Aimee L. Vosper, Deputy Director/CBD

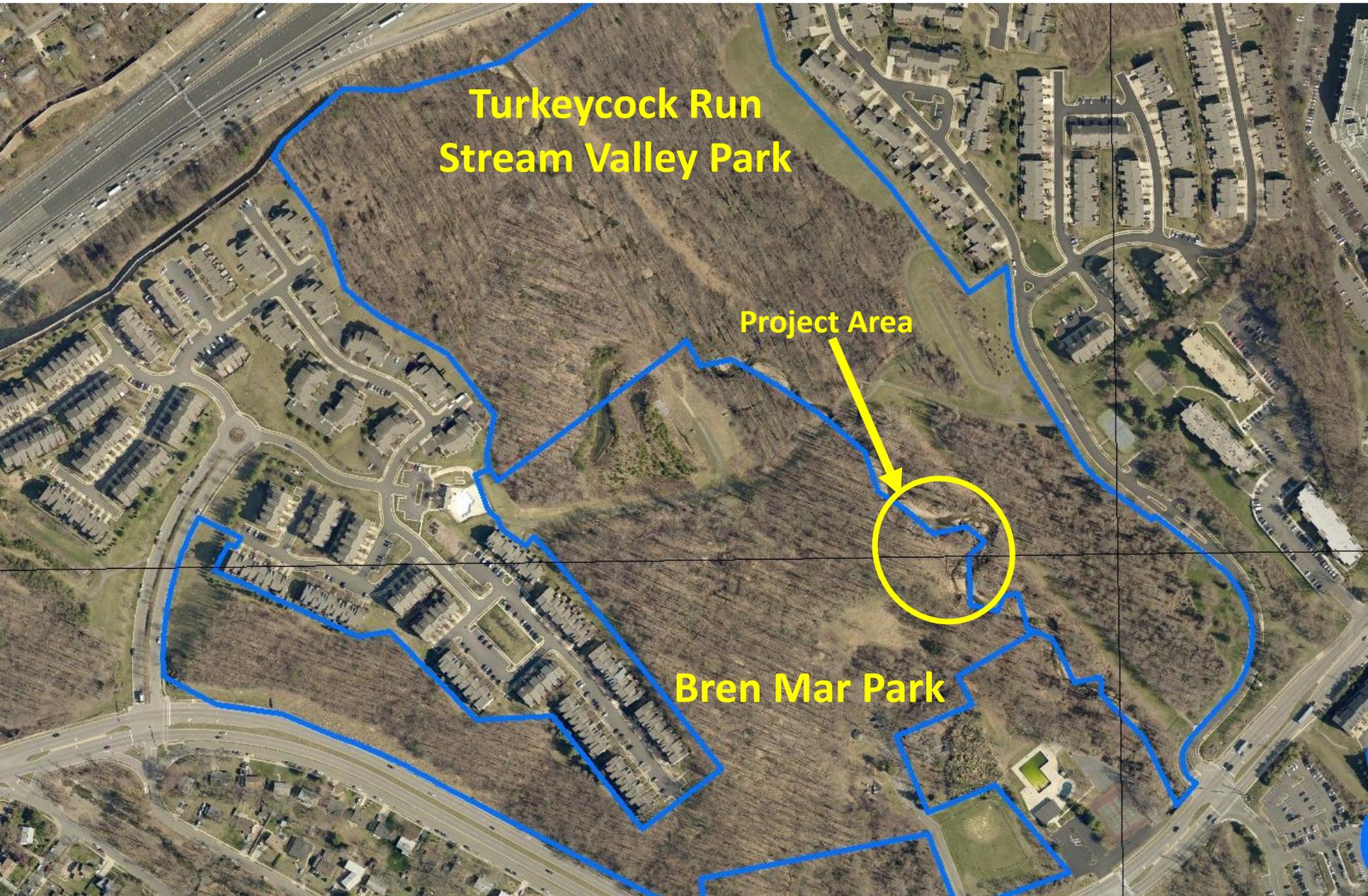
Todd Brown, Director, Park Operations Division

Cindy Walsh, Director, Resource Management Division

Dan Sutherland, Manager, Park Management Branch, Park Operations Division

Janet Burns, Senior Fiscal Manager

Michael P. Baird, Manager, Capital and Fiscal Services



**Turkeycock Run
Stream Valley Park**

Project Area

Bren Mar Park



Mastenbrook Volunteer Matching Fund Grants Program Application Form

PLEASE PRINT. Please provide all information requested. You may attach additional sheets and/or materials to support your request.

1. Grantee Information

Name of Individual or Organization: Overlook Foundation, Inc.

Contact Person: Stephen Smith

Mailing Address: 6415 Hawk View Lane, Alexandria, VA 22312

Phone: 571-228-4271

Fax: ()

2. Project

Title: Invasive Vine Control in Bren Mar and Turkey Cock Valley Stream Parks

3. Funding Requested

Amount \$ 7,200.00

(Applicant may request more than one project per fiscal year, the combined total not to exceed \$20,000.)

4. Project Description

Provide a description of your project. (Attach drawings or specification of *materials*/proposed for purchase. If *educational materials* are proposed, provide a mock up or example of how the product will look, how it will be posted or distributed, and an example of the content. Provide a detailed map and other visual materials, site plan, drawings, photos, cross sections or a mock up of your project and what the finished product will look like.) Provide as much detail as you can to help evaluators clearly understand your project.

Contract with Invasive Plant Control (IPC), or FCPA's preferred vendor, to remove English Ivy, Japanese Honeysuckle, Chinese wisteria and Kudzu. These species have been identified by FCPA staff as being present in these parks. The total estimated work is between \$30,000 and \$50,000. So when matched to \$14,400, this will make a sizeable impact to the problem. We suggest starting with the Kudzu, but defer to the FCPA.

The Overlook Foundation will also organize volunteer work days for NNI removal in the parks' IMA as it has done in the past. This will make an additional material impact in removing the NNI species in the park.

-over-

5. Public Benefits

Explain why your project is important and why it is needed? Who are the intended users? How will the public benefit? How many and what different types of users do you expect? How does this project provide new recreational opportunities for the intended users? Does your project solve a problem or provide important missing services? If your project provides for people with disabilities, in what way?

The benefit of this project is that it will allow mature trees to survive and is one component of allowing native undergrowth and saplings to replenish in these parks. It will help preserve the parks, in a native manner, for future generations to enjoy.

6. Sponsor Commitment

What experience do you or the organization have in accomplishing similar projects? Who will be responsible for organizing and assigning the work to insure successful project completion? You will need to document all project expenditures. What is your plan for documenting the work (photographs, video, written documentation, etc.)? What is your plan, if any, for long-term maintenance of your project after it is completed?

The Overlook Foundation has contracted with IPC to remove NNI species on several acres of its own property. Foundation volunteers have done multiple NNI removal work-days. Volunteers have ranged from 4 - 75. The group sizes have ranged from 4 - 30.

Also, Overlook Foundation residents Susan Austin Roth and Jim Hurley are certified IMA site leaders. They have worked with the FCPA and other regional park authorities on NNI removal. They have organized multiple volunteer work days in these parks in the past and have another session scheduled. We take pictures and provide written documentation of our volunteer work days.

7. Proposed Budget

You will need to provide a detailed and complete budget. Provide enough detail for evaluators to understand exactly what grant funds will be used for, how you arrived at the prices for services, labor, materials, equipment, etc., and the same level of detail about the amount and source of matching funds.

The Park Authority prefers to reimburse grantees after the work is completed. Please check one of the following:

- We understand payment by the Park Authority will occur after we complete the project.
 We must have Park Authority grant funds prior to beginning the project.

Signature

Date

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Board Agenda Item
October 13, 2016

ACTION

Pine Ridge Park – Mastenbrook Volunteer Matching Fund Grant Program Request – Annandale North Springfield Little League (Mason District)

ISSUE:

Approval of a Mastenbrook Volunteer Matching Fund Grant Program request from Annandale North Springfield Little League in the amount of \$7,992.48 to replace the backstop fencing on field 1 at Pine Ridge Park.

RECOMMENDATION:

The Park Authority Director recommends approval of the Mastenbrook Volunteer Matching Fund Grant Program request from Annandale North Springfield Little League in the amount of \$7,992.48 to replace the backstop fencing on field 1 at Pine Ridge Park.

TIMING:

Board action is requested on October 13, 2016, in order to award the grant.

BACKGROUND:

In the interest of improving safety and ball containment on field 1 at Pine Ridge Park, Annandale North Springfield Little League (ANSLL) is proposing to remove the older and shorter backstop fencing and replace it with taller fencing (Attachment 1). In the past, there have been a few incidents where foul balls have hit or come close to hitting spectators viewing games at nearby athletic fields at the park. Installing 30-foot high backstop fencing along with 20-foot high fencing along the sides of the infield will reduce the amount of foul balls that escape the field of play, especially those that are travelling at a high rate of speed.

ANSLL is requesting \$7,992.48 from the Mastenbrook Volunteer Matching Fund Grants Program to help fund the completion of the project (Attachment 2). If approved, the \$7,992.48 from the Mastenbrook Volunteer Matching Fund Grants Program, along with a \$7,992.48 contribution from the ANSLL, will provide the funds sufficient to complete the project. The total project budget is \$15,984.96.

ANSLL has been a participant in the Adopt-A-Field program for several years, and over the years has contributed funds towards maintenance and athletic field improvements

Board Agenda Item
October 13, 2016

for fields at Pine Ridge, Americana, and Howrey Parks as well as many other school athletic fields.

The Park Authority Board Member for the Mason District supports approval of the Grant request. Staff from the Park Operations Division will manage the project, which is scheduled for completion by the fall of 2016. Matching funds are available to complete this project.

FISCAL IMPACT:

The estimated total project cost is \$15,984.96. Funds are currently available in the amount of \$7,992.48 in WBS PR-000009, Community Parks/New Facilities-2012, in Fund 300-C30400, Park Authority Bond Construction; and \$7,992.48 from ANSSL, resulting in the total available funding of \$15,984.96.

Contingent on the approval of this project, the remaining balance in the Mastenbrook Volunteer Matching Fund Grant Program will be \$144,912.61.

ENCLOSED DOCUMENTS:

Attachment 1: Aerial Showing Grant Project Area at Pine Ridge Park

Attachment 2: Mastenbrook Volunteer Matching Fund Grant Program Request –
Annandale North Springfield Little League

STAFF:

Kirk W. Kincannon, Executive Director

Sara Baldwin, Deputy Director/COO

Aimee L. Vosper, Deputy Director/CBD

Todd Brown, Director, Park Operations Division

Dan Sutherland, Manager, Park Management Branch, Park Operations Division

Janet Burns, Senior Fiscal Manager

Michael P. Baird, Manager, Capital and Fiscal Services



Pine Ridge Park

Project Area



Mastenbrook Volunteer Matching Fund Grants Program Application Form

PLEASE PRINT. Please provide all information requested. You may attach additional sheets and/or materials to support your request.

1. Grantee Information

Name of Individual or Organization: Annandale North Springfield Little League

Contact Person: Geoffrey Keller, President

Mailing Address: 4309 Kenwyn Ct Annandale, VA 22003

Phone: 703-732-6262

Fax: 703-425-1757

2. Project

Title: Pine Ridge 1 Backstop

3. Funding Requested

Amount \$ ~~\$8,200~~ \$ 7,992.48

(Applicant may request more than one project per fiscal year, the combined total not to exceed \$20,000.)

4. Project Description

Provide a description of your project. (Attach drawings or specification of *materials*/proposed for purchase. If *educational materials* are proposed, provide a mock up or example of how the product will look, how it will be posted or distributed, and an example of the content. Provide a detailed map and other visual materials, site plan, drawings, photos, cross sections or a mock up of your project and what the finished product will look like.) Provide as much detail as you can to help evaluators clearly understand your project.

Annandale North Springfield LL would like to knock down the current backstop on Pine Ridge #1 and replace it with a new, taller backstop that extends out to the dugouts on each side. The current backstop is old and falling apart but more importantly it is an older design and does not protect our spectators from foul balls that leave the playing field. This grant is critical to our ability to afford this project as we are a small little league and we keep our registration fees low to keep our league from being cost prohibitive for families. (estimate attached)

-over-

5. Public Benefits

Explain why your project is important and why it is needed? Who are the intended users? How will the public benefit? How many and what different types of users do you expect? How does this project provide new recreational opportunities for the intended users? Does your project solve a problem or provide important missing services? If your project provides for people with disabilities, in what way?

As our league has grown over the past few years we have had more spectators watching our children play baseball. At Pine Ridge specifically this rise in spectators has brought an increased safety risk of people being struck with foul balls leaving Pine Ridge #1. This most recent season we had an incident where an infant was struck by a foul ball and suffered a concussion. We have met with the county and obtained an estimate to knock down the existing backstop and replace it with a new one that is 30 feet high and will extend to the dugouts. This new backstop will stop many of the foul balls that currently leave the field and put our spectators in danger.

6. Sponsor Commitment

What experience do you or the organization have in accomplishing similar projects? Who will be responsible for organizing and assigning the work to insure successful project completion? You will need to document all project expenditures. What is your plan for documenting the work (photographs, video, written documentation, etc.)? What is your plan, if any, for long-term maintenance of your project after it is completed?

ANSLL has an adopt a field agreement with the County for Pine Ridge and we have gone above and beyond to care for and to improve the field for our little league. Last year we built new bullpens on the fields at our expense (\$20K). We also have invested time and money on the general maintenance of the fields and have had feedback from many of our visiting little leagues how great our fields look. Rick Elliott who is a board member in our league is responsible for all facilities and does an outstanding job of monitoring the fields and ensuring they are in incredible shape at all times.

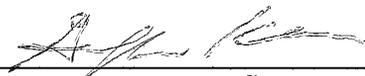
7. Proposed Budget

You will need to provide a detailed and complete budget. Provide enough detail for evaluators to understand exactly what grant funds will be used for, how you arrived at the prices for services, labor, materials, equipment, etc., and the same level of detail about the amount and source of matching funds.

County Estimate attached

The Park Authority prefers to reimburse grantees after the work is completed. Please check one of the following:

- We understand payment by the Park Authority will occur after we complete the project.
 We must have Park Authority grant funds prior to beginning the project.



Signature



Date



42521 John Mosby Hwy
 Chantilly, VA 20152
 Tel: 703-471-0960 Ext 2512
 Fax: 703-478-3545

crooney@longfence.com
www.longfence.com

July 14, 2016

Fairfax County Park Authority

Re: Pine Ridge Park

Subject: Baseball Field Extension

Dear: Mr. Stevenson

Below is the scope and quotes for the work on the above referenced project. Prices are furnished and installed per Fairfax County Contract #4400003922.

Remove and Haul (fence between dugouts)

- 40 linear feet of 12' high chain link fence plus 9' overhang
- 60 linear feet of 10' high chain link fence

Install (fence between dugouts)

- 60 linear feet of 30' high galvanized steel chain link fence
- 40 linear feet of 20' high galvanized steel chain link fence

Material		\$12133.56
Concrete		\$1,200.00
Equipment		\$1725.00
Labor	(96 hours @\$9.65/hour)	\$926.40
Total Price		\$15984.96

Add Option

- Add \$600 for us to include private utility locate *(not needed)*

We look forward to working with you on this project. Should any additional information or clarification be required, please contact me at your convenience.

Sincerely,

Colin Rooney
 Project Manager

 CUSTOMER ACCEPTANCE

 PURCHASE ORDER

 DATE

Board Agenda Item
October 13, 2016

INFORMATION

Energy Management Update (with presentation)

The Park Authority adopted the agencywide FY 2015-17 Energy Management Plan on October 22, 2014. The goals of the Energy Management Plan include energy cost reduction/avoidance while maximizing and improving the services, minimizing the impacts of energy use on the environment, preserving our local and global natural resources, and using renewable resources when feasible.

Staff will share information regarding the implementation progress of the FY 2015-17 Energy Management Plan, outline current energy management projects, accomplishments, and plans.

ENCLOSED DOCUMENTS:

None

STAFF:

Kirk W. Kincannon, Executive Director
Sara Baldwin, Deputy Director/COO
Aimee L. Vosper, Deputy Director/CBD
Todd Brown, Director, Park Operations Division
Barbara Nugent, Director, Park Services Division
Cindy Walsh, Director, Resource Management Division
Dave Bowden, Director, Planning and Development Division
Davood Majidian, Energy Manager, Park Operations Division

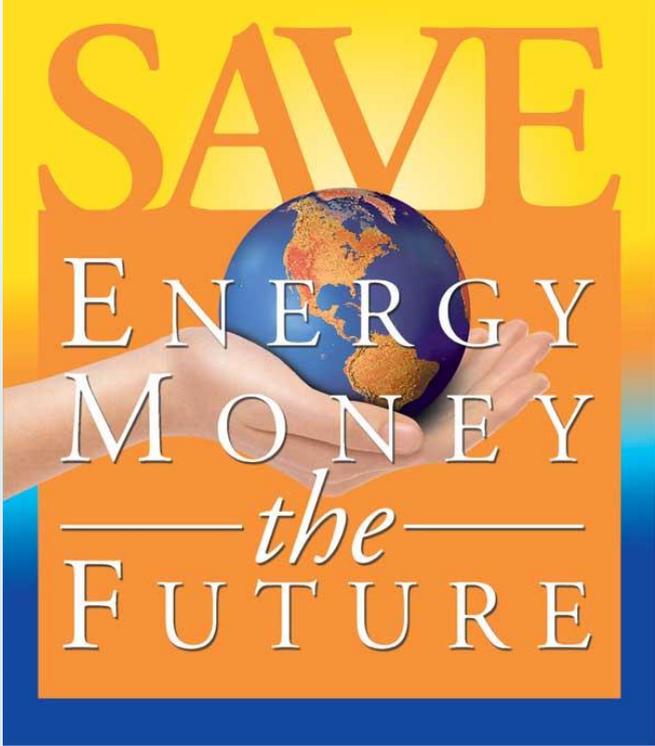
Energy Management Update

Fairfax County Park Authority



Park Operations Committee

September 28, 2016



Energy Management Update

- County Energy Strategy – update
- FCPA Energy Management Plan - update
 - Financial Support
 - Energy Awareness
 - Energy Monitoring

FCPA Energy Projects Update (Completed / Plans)

- Indoor Lighting/Control Projects
- Outdoor Lighting/Control Projects
- Solar Lighting/Control Projects
- Smart Irrigation Control Projects
- Mechanical System - VFD Installation Projects
- Power Quality Review Projects

FCPA Energy Data Update

- Audrey Moore REC Electric Bill Review
- Energy Cost Saving/Avoidance

County Energy Strategy

- **Built Environment & Infrastructure**
 - Location
 - Design & Construction
 - Operations & Maintenance
 - Lease Space
 - Capital Renewal
- **Awareness & Engagement**
 - Employee Work Environment
 - Employee Ownership and Buy-In
 - Other Facility Users
- **Energy Source & Supply**
 - Electricity purchases
 - Nat gas purchases
 - Fuel
 - Renewables
- **Resource Conservation and Management**
 - Waste Reduction, Reuse, & Recycling
 - Wastewater
 - General Materials Use Management
- **Transportation**
 - Public Transportation
 - Fleet Vehicles/Equipment

FCPA EMP - update

Introduction

- I Objective
- II Background
- III Purpose
- IV Definitions
- V Energy Management Program Support
- VI Energy Management Process

EMP Elements

- 1 Energy Policy & Goals
- 2 Energy Awareness
- 3 Facility Energy Monitoring
- 4 Energy Feedback and Suggestions
- 5 Facility Energy Audit
- 6 Energy Project Management
- 7 Capital Project Review
- 8 Energy Sources and Supply

Updates:

- Financial Support
- Energy Awareness
- Energy Monitoring

■ FCPA Park Bond

- 2012 Park Bond - Focus on Revenue-fund Facilities
- 2016 Park Bond - Focus on General fund Facilities & Lifecycle Lighting Projects

■ FCPA Revenue Operating Fund

Small Energy Maintenance Projects

■ Telecommunications & Proffer

Small Energy Projects / Initiatives

■ Fairfax County EIP

Projects with more Positive Impacts on Environment

EIP FY18 Proposed Projects

- Water Usage and Leak Monitoring System
- Purchasing efficient/environmental friendly lawn mowers (samples)
- Outdoor lighting and control upgrades
- George Washington Pool Deck Windows Replacement

FCPA EMP – update

Energy Awareness – FCPA Energy Webpage

Energy Management

[View Related Content](#)

FCPA Energy Management mission is to develop, implement, and manage an energy management program for the Park facilities. Under this program energy projects and activities are planned, managed, and coordinated; energy audits are initiated; awareness of energy management and conservation are increased within the agency; and facility improvement and new construction projects are reviewed with regard to energy efficiency.

This webpage provides information and updates about the agency energy management including energy policy, energy goals, energy related procedures, and energy plan. Also the page provides a suggestion box for employees to share ideas and feedback regarding energy efficiency and conservation actions.

Please contact Davood Majidian at 703-324-8553 or via email (davood.majidian@fairfaxcounty.gov) with any questions.

Energy Policy

- County Energy Policy
- County Procedural Energy Policy
- Park Facilities Temperature Setpoints

Energy Management Plan - EMP

- FCPA EMP FY15-17
- FCPA EMP FY12-14

Comments and Suggestions

Please provide suggestions below:

Comments and Suggestions *

For a response, please provide contact information.
Type last name first and select from the list.

Your Name



Reporting Formats

- Opportunity Reporting
- Change Reporting

<http://fairfaxnet.fairfaxcounty.gov/Dept/PARKS/Pages/POD-Energy-Management.aspx>



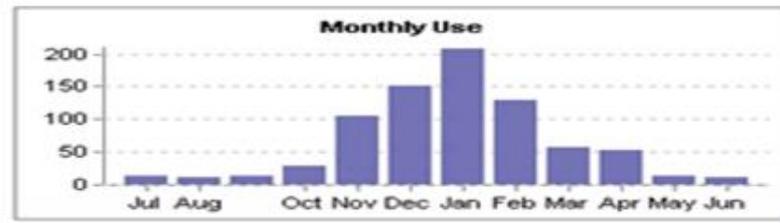
FCPA EMP – update

Energy Monitoring - EnergyCap

EnergyCap

Facility Manager

- FCPA-ATL51-TD
- FCPA-ATL52-OM
- FCPA-ATL99-TC
- FCPA-GLF01-8L
- FCPA-GLF02-GD
- FCPA-GLF03-JF
- FCPA-GLF04-LH
- FCPA-GLF05-OM
 - FCPA-GLF05-OM-E1
 - FCPA-GLF05-OM-E2
 - FCPA-GLF05-OM-G1**
 - FCPA-GLF05-OM-G2
 - FCPA-GLF05-OM-G3
 - FCPA-GLF05-OM-W1
 - FCPA-GLF05-OM-W2
 - FCPA-GLF05-OM-W3
 - FCPA-GLF05-OM-W4
- FCPA-GLF06-PC
- FCPA-GLF07-TL
- FCPA-HPR01-CM
- FCPA-HPR02-CL
- FCPA-HPR03-GF
- FCPA-HPR04-SB
- FCPA-HPR05-WC
- FCPA-HPR06-NW
- FCPA-HPR07-DR
- FCPA-LPK01-8L
- FCPA-LPK02-LF
- FCPA-LPK03-LA

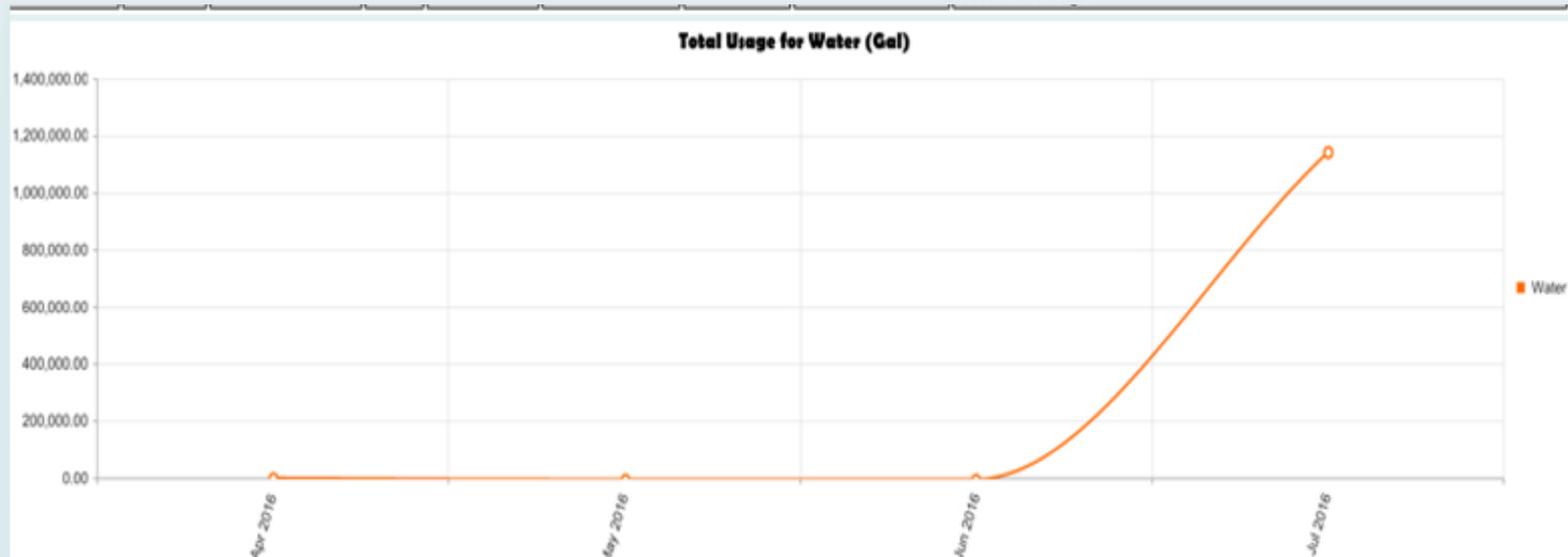


FCPA EMP – Update

Energy Monitoring - Conserve



Property	Provider	Control #	Utility	Svc Address	Account #	Processed Date	Reason	Note
986190 Sully Highlands Park	Fairfax Water	HMA16071400092	Water	13800 Wall Rd	0000307269811	07/26/2016	Percent Variance Consumption Per Day	Water consumption has increased sharply compared to the previous bill. called Fairfax Water and they confirmed that usage was actual. Last year at this time the usage was 485 units. This is an increase of 19.18% compared to this time last year. This seems a normal seasonal change.



Energy Projects

Energy Projects Update

Energy Projects Update

Completed:

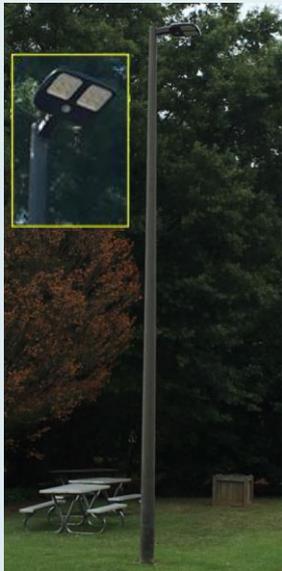
- Green Spring Gardens Lighting & Sensors Installation
- Frying Pan Parking lot Solar Lighting Installation
- Flatlick Shop Lighting and Control Upgrade
- Wakefield Walkway Lights and Control Upgrade
- Wakefield Fields Parking lot and Classroom Lighting & Control Upgrade
- New Tennis Courts LED Lighting Test – Wakefield
- Smart Irrigation Control- phase 1 & 2

Plan:

- Area 2 Shop lighting and control upgrade
- Pinecrest Golf lighting and control upgrade
- Laurel Hill Golf lighting and control upgrade
- Turner Farm Walkway Solar Lighting Installation
- Cub Run Pools – VFD Installation
- Lee District Pool – VFD installation
- Frying Pan Indoor Lighting (Equestrian & 4-H & Visitor Centers)
- Smart Irrigation Control- phase 3

Green Spring Gardens Lighting & Control Upgrade

Project	KWH / YEAR Before	KWH / YEAR After	Energy Saving
Green Spring Garden Lighting & Control Upgrade (indoor & outdoor)	128,000	33,000	74%



- Lobby
- Offices
- Library
- Glasshouse
- Poly Houses
- Garage
- Plant Stands
- Bathrooms
- Work Areas
- Manor House
- Entrance Road
- Parking Lot

Green Spring Gardens Goes Green

Energy Efficient Lighting For Sustainability

Green Spring Gardens has new indoor and outdoor lights and controls. The lighting upgrades have improved illumination and will save energy costs significantly for many years to come.

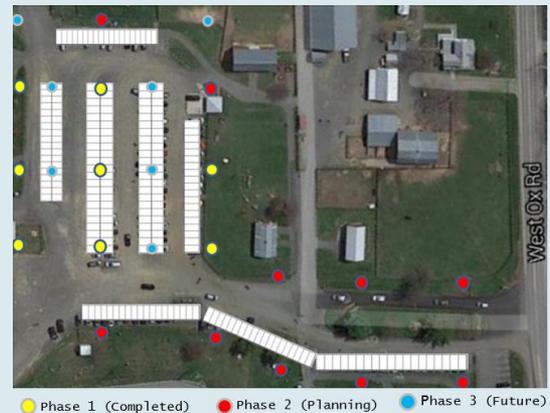
The new installations include:

- LED lighting indoor and outdoor
- Motion sensors to control lights in all spaces
- Dimming functions in large spaces
- Automatic dimming control in the parking lot
- Astronomical timers on outdoor lights

This project was funded by the Fairfax County Park Authority Bond and the County EIP (Environmental Improvement Program)

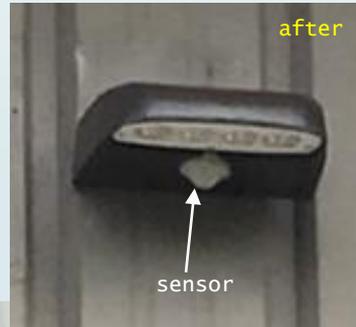



Frying Pan Parking Lot - Solar Lighting



Flatlick Lighting & Control Upgrade

Project	KWH / YEAR Before	KWH / YEAR After	Energy Saving
Flatlick Shop and Outdoor Lighting & Control	10300	3700	64%



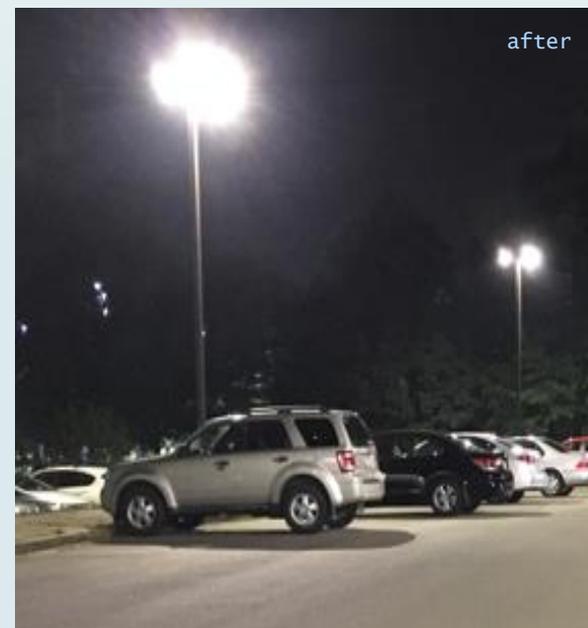
Wakefield Walkway Lighting Upgrade

Project	Total KW Before	Total KW After	Energy Saving
Wakefield Park – Tennis / basketball Courts Walkway Lighting & Control	4	1	75%



Wakefield Athletic Field Parking Lot Lighting & Control Upgrade

Project	KWH / YEAR Before	KWH / YEAR After	Energy Saving
Wakefield Park - Fields Parking Lot Lighting & Control	86,000	13,000	82%



New Tennis Court Lighting Test – Wakefield

Project	Total KW / Court Before	Total KW / Court After	Energy Saving
Wakefield Park Tennis Court 1&2 – Sample Light Testing	6600	3600	45%



Smart Irrigation Control (Implemented by Area Management)

Project Status

Project Status

Phase I : Controls for 15 sites have been installed

Phase II : Under construction for additional 12 sites

Phase III : Controls will be installed in FY17 for rest of the 12 sites



- **Smart Irrigation System**
- **Program irrigation**
- **Irrigate based on Weather Condition**
- **Remote diagnostic**
- **Detect any Leak**
- **Higher Performance**
- **Lower Maintenance Costs**
- **Water Efficient**
- **Energy Efficient**

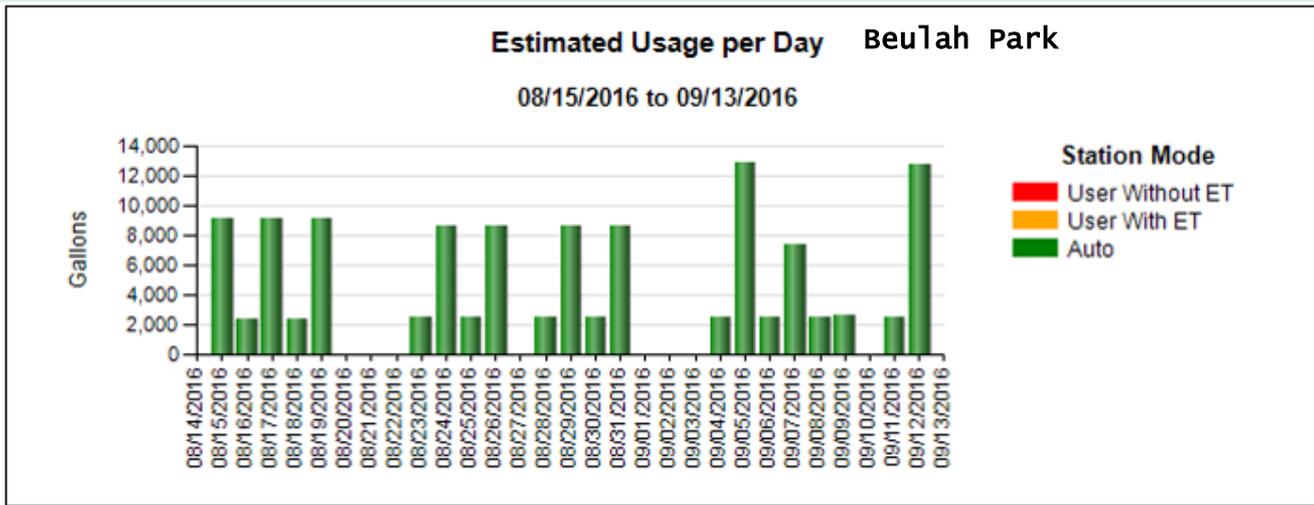
Smart Irrigation System

Sample Reports

Multi-Controller Runtime Report

09/01/2015 to 08/31/2016

		Runtime (Hours) by Station Mode*			
Controller		Auto	User ET	User No ET	Total
1	Sully Highlands [09001024]	421.3	0.0	0.0	421.3
2	Lee District [09006981]	217.8	0.0	0.0	217.8
3	Larry Graves [09009113]	153.1	0.0	0.0	153.1
Totals		792	0	0	792



ET (Evapotranspiration) is the process by which water is transferred from the land to the atmosphere by evaporation from the soil and other surfaces and by transpiration from plants.

Plan: VFD (Variable Frequency Drive) for CRRC and LDRC

CRRC - Two 15 HP pumps for Main Pool plus One 15 HP pump for leisure pool
LDRC - One 50 HP pump for the Pool



- Control AC Motor Speed
- Control Motor Input
- Motor Soft Start
- Decrease Water Hammer
- Higher Performance
- Lower Maintenance Costs
- Save Energy

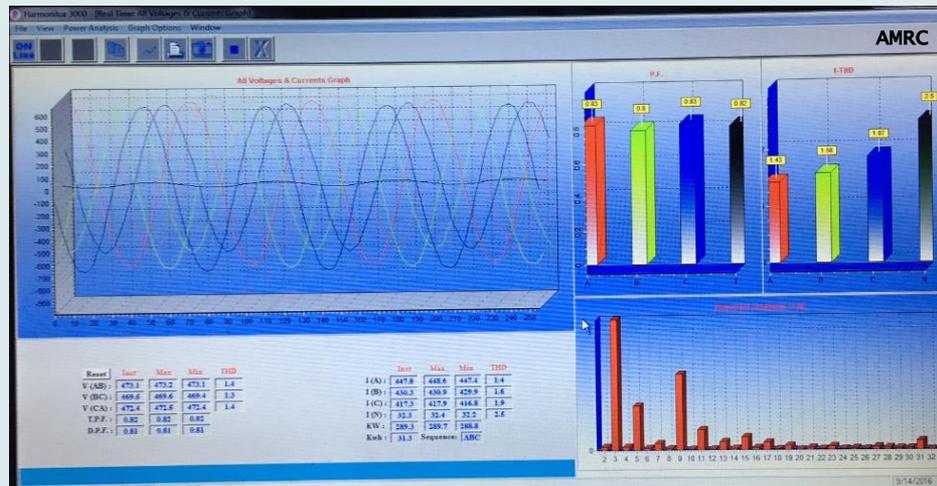
Plan: Facilities Power Quality Review for Improvement & Saving

Efficient Use of Power Results in Less Operating Cost for the Facility ➡

RECenters Would Be Good Cases to Be Reviewed for this ➡

- KW-Demand, and KWH-consumption reduction
- Voltage Stability and Phase Balancing
- Mitigation of Harmonics, Surges, and Transients
- Power Factor improvement
- Protection & increased Longevity of Equipment

Power Factor of an AC electrical power system is defined as the Ratio of the Real Power flowing to the load to the apparent power in the circuit. Real power is the capacity of the circuit for performing work in a particular time. Apparent power is the product of the current and voltage of the circuit



Harmonic voltages and currents in an electric power system are a result of non-linear electric loads. Harmonic frequencies in the power grid are a frequent cause of power quality problems. Harmonics in power systems result in increased heating in the equipment and conductors, misfiring in variable speed drives, and torque pulsations in motors. Reduction of harmonics is considered desirable.

Sample Bill Review - AMRC Electricity Bill Data

Project: Lighting & Control Upgrades

Pool - Aug 2013



Gymnasium - Aug 2015



Project	Previous Total KW	New Total KW	Previous Operation Hours a Year	New Operation Hours a Year	Energy Saving
Natatorium	36.8	12.3	5800	5800	67%
Racquetball Courts	16.4	7.3	4300	2900	70%
Gymnasium	16.8	7.5	5800	2900	78%

Fiscal Year	FY13	FY14	FY15	FY16
AMRC Electricity Usage (KWH)	2,522,160	2,266,800	2,241,120	2,057,340
Percent Reduction Compare to Previous Year		10.12%	1.13%	8.20%
Reduction (FY16 compare to FY 13)	18.40%	Approximately (including maintenance cost reduction): \$40,000 \$/Year		

FCPA Energy Saving / Cost Avoidance (\$) for Listed Energy Projects - Estimated in Sep 2016

Project / Year	Funding Source	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY17 Accumulated Since FY09
PRRC pool lighting and control phase 1	EIP	10000	10000	10000	10000	10000	10000	10000	10000	10000	30000
PRRC raquetball courts lighting and control	EIP	4000	4000	4000	4000	4000	4000	4000	4000	4000	36000
PRRC building lighting and sensors	EIP	6000	6000	6000	6000	6000	6000	6000	6000	6000	54000
FPPP activity and visitor centers lighting	EIP+Tele	4000	4000	4000	4000	4000	4000	4000	4000	4000	36000
Huntley Meadow building and walkway lighting	EIP	1000	1000	1000	1000	1000	1000	1000	1000	1000	3000
LDRC pool and raquetball courts lighting and control	Bond		10000	10000	10000	10000	10000	10000	10000	10000	80000
LDRC gymnasium lighting	Bond		8000	8000	8000	8000	8000	8000	8000	8000	64000
LDRC building lighting and sensors	Bond		7000	7000	7000	7000	7000	7000	7000	7000	56000
MVRC pool lighting and control	Bond			10000	10000	10000	10000	10000	10000	10000	70000
MVRC building lighting and sensors	Bond			5000	5000	5000	5000	5000	5000	5000	35000
A5 and Flatlick building lighting and HVAC control	EIP			2000	2000	2000	2000	2000	2000	2000	14000
Hidden Oaks building HVAC control	EIP			1000	1000	1000	1000	1000	1000	1000	7000
SRRC pool lighting and control	Bond				7000	7000	7000	7000	7000	7000	42000
OMRC pool lighting and control	Bond				15000	15000	15000	15000	15000	15000	30000
Athletic field lighting control	EECBG					30000	30000	30000	30000	30000	150000
Outdoor lighting and control phase 1 (7 RECs parking lots)	EECBG					30000	30000	30000	30000	30000	150000
SHRC pool lighting and control	Bond				7000	7000	7000	7000	7000	7000	35000
LDRC tennis courts lighting	Telecom				1500	1500	1500	1500	1500	1500	7500
AMRC pool lighting and control	Bond						12000	12000	12000	12000	48000
AMRC raquetball courts lighting and control	Bond						6000	6000	6000	6000	24000
Athletic courts lighting control	EECBG						15000	15000	15000	15000	60000
OMRC pool VFD Control	EIP							2000	2000	2000	6000
LDRC spray park VFD Control	EIP							1000	1000	1000	3000
PRRC pool lighting and control phase 2	Bond							6000	6000	6000	18000
JFGC parking lot lighting	EIP							2500	2500	2500	7500
Buildings Walpack Security lighting and control	EIP							6000	6000	6000	18000
Mason District parking lot and drive way lighting (underway)	Telecom							2500	2500	2500	7500
GwRC pool lighting and control plus building sensors	Bond								12000	12000	24000
LDRC pool lighting modification	Bond								2500	2500	5000
PRRC pool VFD Control	EIP								1500	1500	3000
MVRC parking lot and security lighting and control	EIP								5500	5500	11000
AMRC gymnasium lighting and control	Bond								8500	8500	17000
AMRC Building Sensors	Bond								4000	4000	8000
AMRC walkway and security lighting and control	EIP								2500	2500	5000
Smart Irrigation Control- phase 1	EIP								10000	10000	20000
Green Spring Gardens lighting and control	Bond+EIP									12000	12000
Wakefield fields parking lot & classroom lighting & control	EIP									3000	3000
Flatlick Shop lighting and control	Bond									1000	1000
Total Cost Saving/Avoidance (\$) Per FY		25,000	50,000	68,000	30,000	158,500	191,500	211,500	258,000	280,000	1,332,500

