

GRANT AGREEMENT

THIS AGREEMENT, made and entered into on the _____ day of _____, 2025 by and between the **LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT**, an Urban County Government of the Commonwealth of Kentucky, created pursuant to KRS Chapter 67A (hereinafter "Government"), and **Beaver Creek Hydrology, LLC** (Hereinafter "Organization"), with the mailing address of 2516 Sandersville Road, Lexington, Kentucky 40511.

WITNESSETH:

WHEREAS, the Urban County Council created the Lex Grow Trees Grant Program to provide local funding to certain eligible property owners and organizations as reimbursement for eligible activities, such as tree planting, tree maintenance, tree education, and the development of tree advocates and stewards.

WHEREAS, the Government finds that such a grant program would provide a benefit to the public through improvements to air and water quality, energy savings, and habitat and conservation in the urban county; and

WHEREAS, Organization has applied for a grant from the Lex Grow Trees Grant Program, and the Tree Canopy Ad Hoc Committee has approved the application.

NOW FOR AND IN CONSIDERATION OF THE MUTUAL PROMISES AND COVENANTS HEREIN EXPRESSED, GOVERNMENT AND ORGANIZATION AGREE AS FOLLOWS:

1. **Amount of Grant.** Government hereby grants Organization the sum not to exceed \$80,000.00 as reimbursement or prepayment (as provided in Section 2) for the activities described in the Organization's application, which is attached hereto and incorporated herein by reference as Exhibit A, and which is further clarified and authorized in the Application Review, Scoring, and Determination Form, which is attached hereto and incorporated by reference as Exhibit B.
2. **Payments.** Government shall pay the Organization for expenditures the Organization actually incurred, or for expenditures made within thirty days after payment by Government, up to the total amount provided above, only after receipt of an invoice. The funds are limited to the services provided herein and may not be spent by the Organization for any other purpose without the prior written consent of Government. Any invoice must include evidence satisfactory to Government to document entitlement to payment, as well as a progress report. If Organization receives funds under this Agreement for expenditures made after receipt of the grant funds, Organization shall also provide evidence satisfactory to Government that the expenditure was made. Failure to provide any evidence required by this section shall require the Organization to repay grant funds.
3. **Compliance with Program Regulations.** As a condition for receipt of funds provided by this grant, Organization agrees that it has complied with and will continue to comply with all requirements provided in the Lex Grow Trees Grant Program guidelines, attached hereto and incorporated herein by reference as Exhibit C, in any grant approval letter provided by the Division of Environmental Services, and in the Application Review, Scoring, and Determination Form (Exhibit B) Failure to comply with these requirements may result in denial of funds or repayment.

4. **Final Report Required.** A final report must be submitted within 30 days of completion of the project. This report shall include:
 - a. A description of the project and the benefits derived from its implementation;
 - b. Locations of trees planted, including species;
 - c. Locations of trees pruned or maintained, including species;
 - d. Information about events hosted, including topic, location, numbers of attendees, and photographs taken during the events;
 - e. A maintenance plan, if appropriate, or documentation of having maintenance discussions with individual property owners;
 - f. A summary table comparing the project budget to actual expenditures, along with supporting documentation; and
 - g. Sample outreach and/or educational materials used.

5. **Conflict.** To the extent that there is any conflict between or among this Agreement and any of its Exhibits, the terms and provisions of this Agreement shall prevail, followed by terms and provisions of Exhibit "C", then "B", then "A" in that order.

6. **Amendments.** By mutual agreement, the parties to this Agreement may, from time to time, make written changes to any provision hereof. Organization acknowledges that Government may make such changes only upon approval of its legislative authority, the Lexington-Fayette Urban County Council, and the signature of its Mayor.

7. **Entire Agreement.** This Agreement shall constitute the entire agreement between the parties and no representations, inducements, promises or agreements, oral or otherwise, which are not embodied herein shall be effective for any purpose. This Agreement shall replace any previous agreement between the parties on the same subject matter.

IN WITNESS WHEREOF, the parties have executed this Agreement at Lexington, Kentucky, the day and year first above written.

LEXINGTON-FAYETTE URBAN
COUNTY GOVERNMENT

BY: _____
LINDA GORTON, MAYOR

ATTEST:

Clerk of the Urban County Council

Beaver Creek Hydrology
Organization Name (Printed)

BY: _____
Signature

Title

Nina Schultz
Signature
Nina Schultz

Name
1/3/25

Date

EXHIBIT A
ORGANIZATION'S APPLICATION

Form Name: Lex Grow Trees Grant Application
Submission Time: November 25, 2024 10:00 am
Browser: Chrome 131.0.0.0 / Windows
IP Address: 199.168.72.26
Unique ID: 1290797818

Lex Grow Trees Grant Application

Organization information

Name of organization	Beaver Creek Hydrology
Street address and zip code	2516 Sandersville Rd. 40511
Email	leslie@beavercreekhidrology.com
Phone	(270) 860-3836

Contact information

Contact person name	Case Davis
Contact person title	President
Contact person phone number	(615) 491-1967
Contact person email address	case@beavercreekhidrology.com

Project information

Upload a PDF packet with the project narrative, scope of work and community objectives, or entirety of application (including budget, photos, map and letters of support).	https://drive.google.com/uc?id=1HiKqWjsE6xzrvs0ln0UU3KX1VD9Q6auf&export=download&display=/1290797818BeaverCreekHydrology_156059812_bch.lex_grow_full_proposal.pdf
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Project start date	Mar 12, 2025
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List milestone dates	March 2025: Tree Planting; April 2025: Educational Signs installed; May 2025: educational programs scheduled; Through 2025: Maintenance
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Expected completion date	Mar 12, 2026
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Are you willing to accept partial funding?	Yes
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List the address/addresses and Council District where the project is located. Find the Council District at lexingtonky.gov.

Project Location: 2516 Sandersville Rd. Lexington KY 40511
District 2

Supplemental material

Combine and upload a minimum of three color photographs of the project area, if not uploaded previously.

https://drive.google.com/uc?id=1b9TmjR0ciEfIYO5STlyagc6RqQ2jLVQd&export=download&display=/1290797818BeaverCreekHydrology_156060675_bch.attachment_1.pdf

Upload a map of the proposed project location, if not uploaded previously (this can be a screenshot of a map but the project site must be identified).

https://drive.google.com/uc?id=16hLfZuKF6iQkfcj7hNaWLkXPSJjM6vCq&export=download&display=/1290797818BeaverCreekHydrology_156060679_bch._attachment_2.pdf

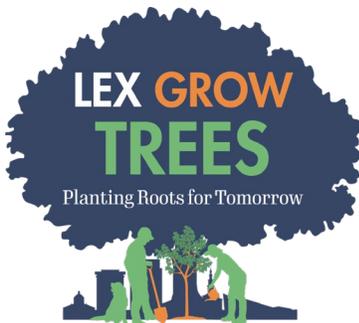
Combine and upload any other supporting documents or letters of support, if not uploaded previously.

https://drive.google.com/uc?id=1IOYvIHYYCv4XLLmqWCc5VI_i2daxluYT&export=download&display=/1290797818BeaverCreekHydrology_156060885_bch.attachment_3.pdf

Beaver Creek Hydrology Revegetation Plan



Prepared for:



Lex Grow Trees
Lexington Fayette Urban County Government

Prepared by:



Beaver Creek Hydrology, LLC.
2516 Sandersville Road
Lexington, KY 40511

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1. ORGANIZATION INFORMATION

Beaver Creek Hydrology (BCH) is an environmental engineering consulting firm based in Lexington, KY. Founded in 2006 by Brian Belcher, PhD, PE and Case Davis, PE, our group includes a range of engineering, ecological and geospatial experts. BCH has developed a reputation for high-quality engineering and ecological restoration work in stream and wetland habitats across the nation, including local waterways in Kentucky.

Our projects are focused on the restoration of stream and wetland habitats, including the adjacent riparian floodplain and upland forest systems. BCH is responsible for identifying and assessing degraded landscapes on a watershed-scale. Our team's experts then design both the stream and wetland features, as well as the revegetation plans to restore the landscape and set the stage for natural successional and long-term ecological health. BCH ensures not only the quality of our restoration projects, but also the long-term maintenance and viability of both the restored waterways and surrounding vegetative landscape. We focus on restoring these degraded watersheds to create healthy and resilient habitats. Our team has a reputation and proud history of successful restoration projects, and we fully intend to give the same attention to the ecological improvements in our own backyard.

Our team has experienced significant growth, doubling in employee size in the past five years. Due to this exponential growth, we moved into a new office location at 2516 Sandersville Road Lexington, KY 40511 (located in Council District 2) in early 2020. The property has a stream at the southern edge that we regularly utilize for internal and external training and education purposes.

2. CONTACT INFORMATION

Name: Case Davis, PE

Title: President Beaver Creek Hydrology

Phone: (615) 491-1967

Email: case@beavercreekhydrology.com

3. PROJECT NARRATIVE

The BCH office is located on a 3.7-acre property in northwest Lexington, see **Attachment 1** for photographs. The area is quickly developing, with new housing developments and shopping areas currently under construction. The scant existing canopy cover is under further threat from development, as it is in other parts of the district.

The goal of our proposal is to increase the scale and health of the existing forested area on BCH property. Through this goal we aim to create a more sustainable and native environment to increase the health of the waterway on our property, and its downstream drainages. We also aim to improve the knowledge of native tree species selection, growth and identification throughout seasonal changes for our BCH employees and community of restoration partners. Finally, we aim to promote community outreach and collaborate with educational partners to provide space and resources for teaching the importance of native trees for urban waterways and the general public.

3.1 Scope of Work

The primary goal of the proposal is to implement a revegetation design plan to increase the native canopy cover on the BCH office property that will have a positive impact for our BCH community, restoration partners, educational partners, our District 2 community and the Lexington public. To meet this goal, we describe the scope of work that are reflective of the Lex Grow Trees grant initiative objectives.

Objective 1: Tree Planting. Through the design and implementation of the revegetation plan, we aim to increase the scale and health of the existing tree canopy on the BCH property. Our revegetation plan consists of the additional of native tree species along the stream on property, as well as the outward-facing areas along Sandersville Rd to allow for maximum public access and benefits.

Objective 2: Tree Education. The revegetation plan will include informational signs and tree species markers to provide educational opportunities for our internal employees and their families, partners in the restoration industry, partners in the educational community, and the public in general.

Objective 3: Tree Maintenance. The revegetation plan will include a maintenance component to ensure long-term health and success of the planted community. This will also allow for educational opportunities in describing common tree health tools and the science of the restoration field.

Objective 1: Tree Planting

What—The revegetation plan, which includes a plan for species selection and placement of native trees, was completed in partnership with **Inside Out Landscaping Design (Inside Out)**. The team at Inside Out are focused on creating “functional outdoor spaces using eco-ethical landscaping practices and techniques”. The group is focused on designing and installing personalized landscapes using “ecologically responsible practices to improve the outdoor spaces” of their clients. See **Attachment 2** for exact plans and species quantities. See **Attachment 3** for a letter of support from Inside Out.

Where—The revegetation plan designed by Inside Out includes a variety of native tree species that are ecologically relevant to our property’s soil, light and water levels. The revegetation plan extends the current landscape in our backyard property to the stream at the back of the property, as well as to the north and west to cover our property that is viewable from Sandersville Road.

Why—Our intent with the revegetation plan is to increase the tree canopy coverage for our property, including the waterway and the public facing areas. Increased canopy cover provided by native trees can increase the overall health of our landscape and citizens by cleaning our air and waterways, and providing shade to reduce the temperature of both waterways and public areas including sidewalks. Native tree canopy can also provide more habitat for a diverse set of wildlife as well as create a buffer against extreme weather.

Who—The revegetation plan will be implanted during an ideal time of the year, most likely in the spring of 2024, depending on grant funding notification. The Inside Out team will install the trees, following the LFUCG’s Planting Manual.

Objective 2: Tree Education

What—As part of our revegetation and installation plan described in Objective 1, we aim to have an education component to increase knowledge and understanding of the importance of native tree canopy coverage. Our educational plan will include general tree knowledge, including identification, role in an ecosystem, and ecological requirements for optimum growth. We will also focus more broadly on the importance of native tree canopy cover, for both natural and urban landscapes. The educational plan will include informational markers on various tree species in the revegetation plan, and informational markers describing the larger benefits of tree canopy coverage. The plan will also include specific lesson plans and training opportunities described below for our intended audiences. All materials produced will be co-branded using the Lex Grow Trees branding.

Who—Our educational plans will be created in collaboration with several internal and external partners. The BCH team is comprised of both engineering trained professionals, and ecological experts. We aim to increase our internal cross-training by having **our ecology team** create lesson plans focused on their areas of expertise (i.e., native tree knowledge). Our ecology team is comprised of qualified professionals, experts in not only stream and wetland riparian planting, but also forestry and botany practices generally. We aim to use this opportunity to train our engineering team on species identification, ecology of tree species and importance to our riparian ecosystems. We believe this cross training will provide a unique opportunity for our entire team to gain a deeper understanding of our restoration practices.

Our external partners will help our team create lesson plans and provide educational opportunities for not only our internal community, but the larger public communities as well. We will partner with **Bluegrass Greensource (BGGs)**, a local non-profit organization focused on environmental education. The team at BGGs is focused on creating educational programming and resources to provide outreach that “inspires, equips and empowers Central Kentuckians with knowledge and tools to help ensure clean, healthy and enjoyable environments for future generations.” We will partner with BGGs to provide a unique educational opportunity space for their long-standing program, Creek Days, which teaches students across Lexington the importance of streams and riparian vegetation. We will also partner with BGGs to create public-facing signage and informational markers to help educate our local community and general public on the importance of native tree canopy. See **Attachment 3** for a letter of support from BGGs.

Why—We aim to take advantage of this opportunity to provide our internal team and community of restoration professionals with a unique chance to view native tree growth throughout the year. We also are excited to partner with BGGs to create educational plans and materials for our District community and the general public to help guide a cultural shift in the understanding of trees for individuals, our economy, our community’s social structure and our collective community’s health. Our aim is to help the Lexington public, and our own District 2 community, address the equity challenges of access to the benefits of a healthy tree canopy.

Objective 3: Tree Maintenance

What—The revegetation plan includes a maintenance component that would ensure the long-term health and success of the planted community. This objective will focus on not only health of the newly planted trees, but also the limited extant trees on the property. Currently, the existing forested area on property, limited to the stream buffer area, has approximately 30% of the area containing Japanese honeysuckle (*Lonicera japonica*).

The maintenance plan will include invasive vegetation species treatment and removal to prevent further encroachment onto the property.

Who—Proper tree installation will help ensure the trees long-term health and success. The Inside Out team will provide adequate soil preparations and mulch rings as part of their installation plan. In addition, they will provide BCH with a “General Landscape Maintenance Guide” to help provide team members an outline of dos and don’ts for the newly planted trees. BCH team members will be responsible for following these guidelines to further ensure long-term health and survivorship of the planted trees.

BCH team members will also be responsible for invasive species removal. Control measures including mechanical removal (mowing, mulching) and chemical spray (commercially available Roundup Glyphosate) will be used on the existing areas of honeysuckle encroachment. Our team members have direct experience conducting, managing and reporting invasive species encroachment on our restoration project sites, and therefore have the required expertise to be responsible for the success of our own property.

Why—Our primary goal of the proposal is to increase the native canopy cover on the BCH office property. We recognize our role in ensuring that the installation of the native trees can have the maximum chance of survivorship. We also aim to increase our own knowledge of tree maintenance and care to better inform our own restoration projects, and draw parallels with the urban techniques of planting to our larger scale designs.

3.2 Community Objectives

Throughout our intended scope of work and three objectives, we have expressed our intention of ensuring maximum collaboration and partnerships. We wanted to highlight these partnerships to describe and convey our intention towards the first of the Lex Grow Trees area of focus, “Mobilization of Community and Neighborhood Tree Advocates and Stewards”.

Internal BCH Community—We have highlighted activities that our ***internal BCH team*** will participate in as part of our proposal’s objectives and scope of work. This includes a focus on the ecology team, made up of five individuals, as well as opportunities for our engineering and mapping team, made up of five individuals and the management team, made up of seven individuals. In addition to our team members, our extended community of partners, families and pets will be able to participate and take advantage of the revegetation plan and educational opportunities. **In total, an estimated 40 individuals will be reached from this community.**

Restoration Community—Our office is regularly used as a meeting location for our industry partners. Our own management team has started a non-profit entity, **Kentucky Ecological Restoration Association (KERA)** that hosts quarterly board meetings and larger audience at our office space. Members of KERA will be able to take advantage of our increased native tree canopy, as well as participate in the educational opportunities. KERA is currently made up of individuals from financial investment firms, nation-wide restoration groups and private consulting firms. Examples of these groups include **Ecosystem Investment Partners** who hosted their annual board member meeting at our office earlier in 2024. The meeting consisted of a full day at our office space, for approximately 50 individuals across the financial and environmental industry. Other groups that will benefit from our revegetation plan include **Davey Mitigation Group**, a subsidiary of Davey Tree, **Restoration Ecosystem Services**, and **Water and Land Solutions**, all of whom regularly have projects in Kentucky. These groups have the financial capital to have a large influence in the restoration and environmental protection sectors. The funding provided by Lex Grow Trees can have therefore have a large influence on individuals capable of making remarkable changes in relevant fields and communities beyond Lexington, Ky.

We also regularly host meetings and events for our non-profit partners in the restoration community, including **Kentucky Waterways Alliance** and **Ohio River Valley Institute**. We also have academic partners, including the **University of Kentucky**, **University of the Cumberlands**, and **Western Kentucky University**. These partnerships have aims to host outreach events and meetings located on our campus and property and would therefore benefit from the implementation of the revegetation plan. With the installation of a native tree canopy, these groups will be able to not only learn about native trees and their importance to an urban environment, but also experience the benefits of trees for individuals, our community's social structure and the collective community health. **Between these individual groups and entities as part of our larger restoration community, a total estimated 120 individuals will be reached.**

Native Tree Advocates—BCH has partnered with Inside Out Landscaping Design, company to design and implement the revegetation plan. **Inside Out Landscape Design, LLC** has worked in the bluegrass region for 17 years, is a certified woman-owned business, is the only CPLD certified landscape designer in Kentucky, and has certified staff for installations. Award winning projects range from design and master plans to implementation and maintenance of all designs. The team is well versed in native and non-native, non-invasive plant materials that are appropriate for streetscapes, government buildings and commercial landscapes. The Inside Out team values first-class service, pride in craftsmanship, and ongoing education and is comprised of certified staff. The company specializes in all projects for landscape design and construction, and

maintaining those projects for governmental, commercial and residential clients. **In total, an estimated 10 individuals will be reached from this community.**

Education Partners—Our primary educational partner will be **Bluegrass Greensource (BGGs)**. We aim to provide a space and setting for their stream and forest educational events. This upcoming spring we plan to host our second annual Creek Day event organized by BGGs for Sandersville Elementary. BGGs created a diverse set of lesson plans focused on the importance of urban waterways and native tree cover. We are excited to host Creek Day in 2025, with the newly installed revegetation plan, the student’s experiences will only be heightened! **With this partnership, a total estimated 150 individuals will be reached.**

4. PROJECT DATES AND SCHEDULE

Project Phase	Expected Dates	Description
Start	March 2024	We began consulting with the Inside Out landscaping team to create a native tree canopy plan.
Objective 1: Revegetation Plan	Soil preparation Fall 2024. Tree Installation Spring 2025	The Inside Out team will provide necessary soil preparation and tree installation.
Objective 2: Education	Informational markers April 2025 Educational materials May 2025	The BCH team will provide species identification markers and tree ecology educational materials for internal use and for sharing with our restoration community. The Bluegrass Greensource team will provide informational markers and educational materials for our community and general public.
Objective 3: Maintenance	through 2025 and beyond	The BCH team will follow the Inside Out team’s guidelines for tree maintenance up to one year post planting. The BCH team will conduct invasive species removal activities as needed in the future.
End	March 2026	The BCH team will create reports that will be generated describing success of objective implementation no more than 30 days after completion of the project. The total estimated individuals across our partnerships and community groups that will be impacted positively by our proposal is 320 direct individuals . This does not take into account our larger public communities of District 2, including our neighbors and other local businesses as well as the larger Lexington public.

5. PROJECT BUDGET

Project Phase	Collaborators	Cost	Total
Objective 1: Tree Planting			\$89,000
Revegetation Plan Design	Inside Out Landscaping Design	\$12,000	
Tree Cost and Installation	Inside Out Landscaping Design	\$77,000	
Objective 2: Tree Education			\$2,000
Tree ID Markers	BCH Team	\$1,000	
Educational Signs	Bluegrass Greensource	\$1,000	
Lesson Plan—Tree Ecology	BCH Team	--	
Lesson Plan—Urban Stream Ecology	Bluegrass Greensouce	external grants	
Objective 3: Tree Maintenance			\$1,000
Guidelines for Tree Maintenance	BCH Team	\$500	
Invasive Species Removal	BCH Team	\$500	
Neighborhood Stewards and Advocates			
Community Events	Bluegrass Greensource	external grants	
Financial Investment Opportunities	Ecosystem Investment Partners, etc	private capital	
TOTAL			\$92,000

6. COUNCIL DISTRICT INFORMATION

The BCH office is located in Council District 2. From the Urban Tree Canopy Assessment and Report Cards with data from 2022, District 2 had the lowest amount of tree canopy cover at only 18%, well below the average canopy coverage of 25%. When evaluating census blocks, BCH is located in Block 210670037042. This block has an urban canopy coverage of 17%, again this is well below the average of the area of 25%. We believe that due to the relatively low canopy cover of this district, the office location provides a unique opportunity to improve the overall canopy cover for the district to improve its standing compared to other districts in Lexington.

ATTACHMENT 1: EXISTING CONDITION PHOTOGRAPHS



Facing the Courtyard.



Facing the Stream, the South Screen area.



Facing the West Screen area.



Sandersville Road to the left, North Screen Planting Area.

ATTACHMENT 2: REVEGETATION DESIGN SPECIFICATIONS

The following tables contain the revegetation design specifications, including species and quantities to be planted. Attached are also design drawings provided by Inside Out Landscaping team detailing the specific areas intended for the revegetation plan. Areas that will be viewable to the general public include both the North Screen and North Screen Front (circled in purple) and the West Screen (dark orange).

Location	Trees Quantity
West Screen	40
North Screen	20
North Screen Front	20
South Screen	44
Courtyard	27
Other	24
TOTAL	175



Area	Common Name	Botanical Name	Quantity
West Screen-- culdesac area	AMERICAN HOLLY	<i>Ilex opaca</i>	5
	AMERICAN SENTRY LINDEN	<i>Tilia americana 'American Sentry'</i>	1
	BIGLEAF MAGNOLIA	<i>Magnolia macrophylla</i>	3
	BLACK CHERRY	<i>Prunus serotina</i>	1
	COLUMNAR JUNIPER	<i>Juniperus chinensis 'Hetzii Columnaris'</i>	5
	EASTERN RED CEDAR	<i>Juniperus virginiana</i>	3
	EASTERN REDBUD	<i>Cercis canadensis</i>	2
	GREEN GIANT ARBORVITAE	<i>Thuja x plicata 'Green Giant'</i>	3
	SILKY DOGWOOD	<i>Cornus amomum</i>	12
	SOUTHERN CRABAPPLE	<i>Malus angustifolia</i>	1
	SUGAR MAPLE	<i>Acer saccharum</i>	1
	SWEET BAY MAGNOLIA	<i>Magnolia virginiana</i>	2
	TULIP POPLAR	<i>Liriodendron tulipifera</i>	1
		TOTAL	40
North Screen-- corner on Sandersville	AMERICAN DREAM SWAMP WHITE OAK	<i>Quercus bicolor 'American Dream'</i>	3
	AMERICAN HOLLY	<i>Ilex opaca</i>	5
	COLUMNAR JUNIPER	<i>Juniperus chinensis 'Hetzii Columnaris'</i>	3
	COMMON WITCH HAZEL	<i>Hamamelis virginiana</i>	3
	EASTERN REDBUD	<i>Cercis canadensis</i>	3
	TUPELO	<i>Nyssa sylvatica</i>	3
	TOTAL	20	
North Screen Front-- along Sandersville Rd.	BASIC EVERGREEN TREE 01	<i>Basic Evergreen Tree 01</i>	3
	DURA HEAT® RIVER BIRCH	<i>Betula nigra "Dura Heat"</i>	7
	EASTERN REDBUD	<i>Cercis canadensis</i>	5
	SILKY DOGWOOD	<i>Cornus ammonum</i>	5
	TOTAL	20	
South Screen-- along stream	BLACK WILLOW	<i>Salix nigra</i>	10
	DURA HEAT® RIVER BIRCH	<i>Betula nigra "Dura Heat"</i>	5
	EASTERN REDBUD	<i>Cercis canadensis</i>	5
	HACKBERRY	<i>Celtis occidentalis</i>	3
	SMOOTH ALDER	<i>Alnus serrulata</i>	3
	NORTHERN RED OAK	<i>Quercus rubra</i>	5
	SPRING GROVE DOGWOOD	<i>Cornus florida "Spring Grove"</i>	8
	SWAMP WHITE OAK	<i>Quercus bicolor</i>	5
	TOTAL	44	
Courtyard	AMERICAN HORNBEAM	<i>Carpinus caroliniana</i>	1
	AUTUMN BRILLIANCE® APPLE SERVICEBERRY	<i>Amelanchier x grandiflora 'Autumn Brilliance'</i>	1
	BASIC EVERGREEN TREE 01	<i>Basic Evergreen Tree 01</i>	1
	COMMON PERSIMMON	<i>Diospyros virginiana</i>	1
	COMMON WITCH HAZEL	<i>Hamamelis virginiana</i>	2
	DURA HEAT® RIVER BIRCH	<i>Betula nigra 'Dura Heat'</i>	7
	GREEN GIANT ARBORVITAE	<i>Thuja x plicata 'Green Giant'</i>	3
	SILKY DOGWOOD	<i>Cornus amomum</i>	6
	STANDING OVATION SERVICEBERRY	<i>Amelanchier alnifolia 'Standing Ovation'</i>	2
	SUGAR TYME™ CRABAPPLE	<i>Malus x 'Sutyzam' 'Sugar Tyme'</i>	1
	VALLEY FORGE ELM	<i>Ulmus americana 'Valley Forge'</i>	1
	WHITE FRINGE TREE	<i>Chionanthus virginicus</i>	1
	TOTAL	27	
Other Areas-- along Sandersville Rd and east side of building	BLACK WILLOW	<i>Salix nigra</i>	1
	DURA HEAT® RIVER BIRCH	<i>Betula nigra 'Dura Heat'</i>	3
	EASTERN REDBUD	<i>Cercis canadensis</i>	6
	HACKBERRY	<i>Celtis occidentalis</i>	1
	HAZEL/SMOOTH ALDER	<i>Alnus serrulata</i>	1
	NORTHERN RED OAK	<i>Quercus rubra</i>	1
	SHUMARD OAK	<i>Quercus shumardii</i>	2
	SILKY DOGWOOD	<i>Cornus amomum</i>	3
	SPRING GROVE DOGWOOD	<i>Cornus florida 'Spring Grove'</i>	4
	SWAMP WHITE OAK	<i>Quercus bicolor</i>	2
	TOTAL	24	

ATTACHMENT 3: COLLABORATOR SUPPORT



BLUEGRASS GREENSOURCE

1305 Germany Rd
Frankfort, KY 40601
bfgreensource.org
P (859) 266 – 1572

November 22, 2024

To whom it may concern:

I am writing in support of Beaver Creek Hydrology's grant application for tree planting on their streamside property. Beaver Creek Hydrology has supported Bluegrass Greensource's youth environmental education programs for years, assisting with updates to the aquatic macroinvertebrate samples our educators use in lessons with students and, more recently, partnering with our staff to facilitate Creek Days for Lexington students. In the fall of 2023, Beaver Creek Hydrology hosted a Creek Day on their campus for 125 fourth graders from a nearby school, Sandersville Elementary. Their staff and Bluegrass Greensource (BGGs) educators led station activities for the students to support learning about water quality, erosion, habitats, and animal structures and functions. The Sandersville teachers, field trip chaperones, and students were thrilled with the opportunities for authentic learning and to become familiar with a variety of careers! Our teams are collaborating to coordinate another Creek Day in May 2025 for this year's fourth grade students from Sandersville, as well as additional educational programs.

The planting of native trees on Beaver Creek Hydrology's campus will enhance and expand the educational opportunities afforded to students. BGGs Creek Days include chemical testing, aquatic macroinvertebrate assessments, and habitat analysis. Additional trees along the stream at Beaver Creek Hydrology will improve the stream and riparian area, allowing students who participate in Creek Days there to learn about streamside buffers, water quality, and ecosystems on a deeper level. Additionally, BGGs educators are hopeful to incorporate additional learning experiences into Creek Days, particularly around the benefits of trees to water quality.

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Education Director



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Frankfort, KY 40601

Office phone: 502-695-7020

Emails:

andream@kentuckylandscapedesign.com
amandas@kentuckylandscapedesign.com
ryanb@kentuckylandscapedesign.com

Website:

<http://www.kentuckylandscapedesign.com>

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- Master plans and designs
- Consultations (for any service provided)
- Sustainable, resilient and wildlife friendly design

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- Landscape, lighting and hardscape construction
- Landscape and specialty gardens focusing on native, wildlife, pollinator friendly plants
- Drainage, rain gardens

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- Maintenance and landscape cleanup for projects we design and install or large estates, commercial properties we did not install
- Invasive species removal

CONFIDENTIAL



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CONFIDENTIAL



MEET INSIDE OUT LEADERSHIP

Meet our key team members for this project - certified, credentialed staff.



ANDREA MUELLER, CPLD

lead designer, owner
20 years experience as a
landscape designer, only
CPLD certified landscape
designer in kentucky



RYAN BARKER

operations manager
certified kentucky
nurseryman, 16 years
experience in horticulture,
nursery management and
operations management



AMANDA SHOUSE

office manager
scheduling, coordinating, 18
years office management
experience



KRISTIN DEMPSEY

accounting
20 years in accounting,
12 years in horticulture and
construction



DAN BRACCIO, CMHA

hardscape specialist, CMHA
certified, 12 years experience
in hardscape, 15 years
experience in horticulture,
hardscape manager



ABBIE HESSIAN, ISA

project manager and nursery
support, a lifetime in the
industry, master gardener,
certified arborist, pesticide
license

ATTACHMENT 1: EXISTING CONDITION PHOTOGRAPHS



Facing the Courtyard.



Facing the Stream, the South Screen area.



Facing the West Screen area.



Sandersville Road to the left, North Screen Planting Area.

ATTACHMENT 2: REVEGETATION DESIGN SPECIFICATIONS

The following tables contain the revegetation design specifications, including species and quantities to be planted. Attached are also design drawings provided by Inside Out Landscaping team detailing the specific areas intended for the revegetation plan. Areas that will be viewable to the general public include both the North Screen and North Screen Front (circled in purple) and the West Screen (dark orange).

Location	Trees Quantity
West Screen	40
North Screen	20
North Screen Front	20
South Screen	44
Courtyard	27
Other	24
TOTAL	175



Area	Common Name	Botanical Name	Quantity
West Screen-- culdesac area	AMERICAN HOLLY	<i>Ilex opaca</i>	5
	AMERICAN SENTRY LINDEN	<i>Tilia americana 'American Sentry'</i>	1
	BIGLEAF MAGNOLIA	<i>Magnolia macrophylla</i>	3
	BLACK CHERRY	<i>Prunus serotina</i>	1
	COLUMNAR JUNIPER	<i>Juniperus chinensis 'Hetzii Columnaris'</i>	5
	EASTERN RED CEDAR	<i>Juniperus virginiana</i>	3
	EASTERN REDBUD	<i>Cercis canadensis</i>	2
	GREEN GIANT ARBORVITAE	<i>Thuja x plicata 'Green Giant'</i>	3
	SILKY DOGWOOD	<i>Cornus amomum</i>	12
	SOUTHERN CRABAPPLE	<i>Malus angustifolia</i>	1
	SUGAR MAPLE	<i>Acer saccharum</i>	1
	SWEET BAY MAGNOLIA	<i>Magnolia virginiana</i>	2
	TULIP POPLAR	<i>Liriodendron tulipifera</i>	1
		TOTAL	40
North Screen-- corner on Sandersville	AMERICAN DREAM SWAMP WHITE OAK	<i>Quercus bicolor 'American Dream'</i>	3
	AMERICAN HOLLY	<i>Ilex opaca</i>	5
	COLUMNAR JUNIPER	<i>Juniperus chinensis 'Hetzii Columnaris'</i>	3
	COMMON WITCH HAZEL	<i>Hamamelis virginiana</i>	3
	EASTERN REDBUD	<i>Cercis canadensis</i>	3
	TUPELO	<i>Nyssa sylvatica</i>	3
	TOTAL	20	
North Screen Front-- along Sandersville Rd.	BASIC EVERGREEN TREE 01	<i>Basic Evergreen Tree 01</i>	3
	DURA HEAT® RIVER BIRCH	<i>Betula nigra "Dura Heat"</i>	7
	EASTERN REDBUD	<i>Cercis canadensis</i>	5
	SILKY DOGWOOD	<i>Cornus amomum</i>	5
	TOTAL	20	
South Screen-- along stream	BLACK WILLOW	<i>Salix nigra</i>	10
	DURA HEAT® RIVER BIRCH	<i>Betula nigra "Dura Heat"</i>	5
	EASTERN REDBUD	<i>Cercis canadensis</i>	5
	HACKBERRY	<i>Celtis occidentalis</i>	3
	SMOOTH ALDER	<i>Alnus serrulata</i>	3
	NORTHERN RED OAK	<i>Quercus rubra</i>	5
	SPRING GROVE DOGWOOD	<i>Cornus florida "Spring Grove"</i>	8
	SWAMP WHITE OAK	<i>Quercus bicolor</i>	5
	TOTAL	44	
Courtyard	AMERICAN HORNBEAM	<i>Carpinus caroliniana</i>	1
	AUTUMN BRILLIANCE® APPLE SERVICEBERRY	<i>Amelanchier x grandiflora 'Autumn Brilliance'</i>	1
	BASIC EVERGREEN TREE 01	<i>Basic Evergreen Tree 01</i>	1
	COMMON PERSIMMON	<i>Diospyros virginiana</i>	1
	COMMON WITCH HAZEL	<i>Hamamelis virginiana</i>	2
	DURA HEAT® RIVER BIRCH	<i>Betula nigra 'Dura Heat'</i>	7
	GREEN GIANT ARBORVITAE	<i>Thuja x plicata 'Green Giant'</i>	3
	SILKY DOGWOOD	<i>Cornus amomum</i>	6
	STANDING OVATION SERVICEBERRY	<i>Amelanchier alnifolia 'Standing Ovation'</i>	2
	SUGAR TYME™ CRABAPPLE	<i>Malus x 'Sutyzam' 'Sugar Tyme'</i>	1
	VALLEY FORGE ELM	<i>Ulmus americana 'Valley Forge'</i>	1
	WHITE FRINGE TREE	<i>Chionanthus virginicus</i>	1
	TOTAL	27	
Other Areas-- along Sandersville Rd and east side of building	BLACK WILLOW	<i>Salix nigra</i>	1
	DURA HEAT® RIVER BIRCH	<i>Betula nigra 'Dura Heat'</i>	3
	EASTERN REDBUD	<i>Cercis canadensis</i>	6
	HACKBERRY	<i>Celtis occidentalis</i>	1
	HAZEL/SMOOTH ALDER	<i>Alnus serrulata</i>	1
	NORTHERN RED OAK	<i>Quercus rubra</i>	1
	SHUMARD OAK	<i>Quercus shumardii</i>	2
	SILKY DOGWOOD	<i>Cornus amomum</i>	3
	SPRING GROVE DOGWOOD	<i>Cornus florida 'Spring Grove'</i>	4
	SWAMP WHITE OAK	<i>Quercus bicolor</i>	2
	TOTAL	24	

ATTACHMENT 3: COLLABORATOR SUPPORT



BLUEGRASS GREENSOURCE

1305 Germany Rd
Frankfort, KY 40601
bfgreensource.org
P (859) 266 – 1572

November 22, 2024

To whom it may concern:

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nursery management and
operations management



AMANDA SHOUSE

office manager
scheduling, coordinating, 18
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license

EXHIBIT B

APPLICATION REVIEW, SCORING, AND DETERMINATION FORM

**LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
TREE CANOPY AD HOC COMMITTEE
LEX GROW TREES GRANT PROGRAM
APPLICATION REVIEW, SCORING, AND DETERMINATION**

Applicant Name: Beaver Creek Hydrology

Requested Grant Amount: \$92,000.00

Project Elements:

1. Tree Planting
2. Tree Education
3. Tree Maintenance, with an education component, for the long-term health and success of the planted trees, along with stewardship by BCH team members

RECOMMENDATION OF THE SCORING COMMITTEE

- Applicant and proposed project meet program eligibility requirements. Project Score: **95**.
- Approve the Grant Application for the **Partial** amount of **\$80,000.00**.
- Approve the Grant Application with the following stipulations:
 1. Grant funds shall not be used to pay for the design work completed prior to submittal of the grant application and the award of funds.

TREE CANOPY AD HOC COMMITTEE DETERMINATION

After considering the recommendation of the Scoring Committee, the application and supporting information, and having heard evidence, the Committee finds:

The application does not meet the eligibility requirements of the grant program as set forth in the Grant Program Guidelines and the grant application is denied.

--- OR ---

The application meets the eligibility requirements of the grant program as set forth in the Grant Program Guidelines.

The application has been scored and is deemed worthy of funding this granting cycle.

The grant application is approved in the amount of: \$ 80,000.00

The grant is approved with the following stipulations: see item 1
in the recommendation section above

_____ The application has been scored. Insufficient funds are available to cover the project for this Fiscal Year.

_____ Other: _____



Chairperson

12-19-2024

Date

EXHIBIT C

LEX GROW TREES GRANT PROGRAM GUIDELINES

Lex Grow Trees Grant Program Guidelines

Round 2 – Fall 2024

Objectives

1. Increase the scale and health of our tree canopy.
2. Increase community buy-in and resident engagement in assuring the creation and maintenance of our tree canopy.
3. Guide a cultural shift in the understanding of the benefits of trees for individuals, our economy, our community's social structure, and our collective community's health.
4. Address the equity challenges of access to the benefits of a healthy tree canopy.

Background

As a result of several opportunities and issues facing the residents of Lexington over the past several years, there has been an unprecedented level of concern for our City's tree canopy. Upon hearing these concerns and during discussions on how the City would allocate its share of Federal ARPA funds, the Urban County Council and the administration desired to allocate funds to growing Lexington's tree canopy. In February 2022, the Council authorized \$1.5 Million from budget stabilization funds for improving Lexington's tree canopy. The funds were placed with the Division of Environmental Services to oversee their expenditure. The Tree Canopy Ad Hoc Committee was formed to provide input to the division as to how the funds should be allocated. The committee created the Lex Grow Trees campaign which is dedicated to addressing tree canopy inequalities in Lexington. Four areas of focus that Lex Grow Trees determined are:

1. Mobilization of community and neighborhood tree advocates and stewards
2. Tree planting
3. Tree maintenance
4. Tree education

In the FY22 budget, \$75,000 was allocated to update Lexington's Urban Tree Canopy Study, which had been completed in 2012. The change analysis, completed in the fall of 2022, looked at the most recent data from 2020 as compared to the 2012 data. It provides information on the tree canopy by council district, watershed, census tract, and types of property ownership. The assessment also includes planting plans to achieve various canopy goals. We encourage potential applicants to review this study to help spark potential project ideas.

Based on the Urban Tree Canopy Study, LFUCG-owned properties are, on average, meeting the 30% recommended city-wide canopy goal. The study shows that other publicly-owned properties and most privately-owned properties are in need of increased tree canopy. As such, the Lex Grow Trees Grant Program will provide preference to projects proposed on properties not owned by the City.

Eligible Organizations

1. Federally recognized non-profit organizations 501(c)(3)

2. Incorporated, active neighborhood or homeowners associations
3. For profit organizations

Eligible Activities

1. Tree planting
2. Tree maintenance
3. Tree education
4. Develop and support tree advocates and stewards

Ineligible for Funding

In general, the following items are not eligible for funding; however, potential applicants are encouraged to discuss their proposed project idea with the Division of Environmental Services prior to the application deadline if there are questions about funding eligibility.

1. Planting of trees to fulfill development and/or zoning requirements (e.g., Chapter 17B of the Code of Ordinances, Articles 18 and 26 of the Zoning Ordinance, and Article 6-10 of the Land Subdivision Regulations). Trees proposed for a development site that are in addition to trees that are required by ordinance are potentially eligible for funding if the applicant can demonstrate that they have funds available to complete the required plantings.
2. Tree-related activities, like planting or maintenance, on LFUCG property, or marketing or educational campaigns about trees generally that can be, or is being, performed by LFUCG staff.
3. Indirect costs, including, but not limited to those applied as a percentage of the direct costs of the proposed project budget.

Application Requirements

Applications must include the following information:

1. Organization info
 - a. Name of organization
 - b. Street address and zip code
 - c. Phone number
 - d. Email address
2. Contact information
 - a. Contact person name
 - b. Contact person title
 - c. Contact person phone number
 - d. Contact person email address
3. Project narrative, scope of work, and community objectives (If applicable, include a list of project partners and tree experts who will be engaged in your project.)
4. Project dates and project schedule
 - a. Starting date
 - b. Milestone dates
 - c. Expected completion date
5. Project budget and explanation
6. List the address/addresses and Council District where the project is located. (Find the Council District here: <https://www.lexingtonky.gov/>)

7. Supplemental material
 - a. A minimum of three (3) color photographs of the project area
 - b. A map of the proposed project location (This can be a screenshot of a map but the project site must be identified.)
 - c. Any other supporting documents or letters of support
8. Page limit: 10 pages with font size 12

Selection Criteria

Applications for each funding cycle will be evaluated by the Tree Canopy Ad Hoc Committee. Applications and the activities proposed will be evaluated and grant awards will be made based on consideration of the following factors (the scoring rubric is at the end of this document):

1. Location with a focus on equity (See the [2022 Urban Tree Canopy Study](#).)
2. Number of people reached via engagement or education
3. Ability of the applicant to maintain the project
4. Cost efficiency (budget must be specific, justified, and reasonable)
5. Number of trees (newly planted)
6. Number of trees (maintenance or care of existing)

Additional Grant Program Guidelines and Requirements

1. All applicants must submit a completed application by the deadline.
2. A detailed project plan and budget for all expenses shall be prepared and included in the application. If selected for a grant, a more detailed project plan and budget may be required for the Grant Award.
3. If selected for a grant, the organization must have a taxpayer ID and be willing to provide a W-9 to LFUCG.
4. If selected for a grant, the organization must be willing to sign the Grant Agreement that will be processed for approval by the Urban County Council and the Mayor's signature. A copy of the Grant Agreement is attached.
5. To receive grant funds, grantees will submit Requests for Reimbursement for consideration. Each Request for Reimbursement shall include documentation to support the reimbursement request (*e.g.*, paid invoices, receipts, pay stubs) or quotes for items to be purchased within thirty (30) days of the funds disbursement. The final ten percent (10%) of the grant funds shall not be requested until the project is complete and the final report (see #13 below) is submitted. Upon acceptance of the final report, the final invoice will be processed for payment, and the grant will be closed out.
6. Organizations will have up to 24 months from the time of the execution of the Grant Agreement to complete the projects.
7. Full responsibility for management of the project lies with the organization awarded funds. This includes the following:
 - a. Obtaining approvals.
 - b. Sign-offs from LFUCG offices regarding species selection, sight distance, encroachment/location issues, planting safety issues, and maintenance specifications.
8. All grant-funded projects must be completed in accordance with applicable local, state, and federal law. All required permits, agreements, permissions, approvals, etc. must be obtained by the grant recipient or their representatives prior to commencing work.

9. Any project that includes movement of soil and/or land disturbance shall call 811 for utility locating services per state regulations.
10. The project cannot include permanent changes within the street right-of-way without the prior express written approval from LFUCG or KYTC, as appropriate. Likewise, the project cannot include permanent changes on properties not owned and/or controlled by the grant recipient without the prior express written approval from the property owner.
11. Any project proposing tree planting shall follow LFUCG's Planting Manual under the advisement of LFUCG's Urban Forester (see: www.lexingtonky.gov/forestry). Grantees are encouraged to contact the Urban Forestry staff with questions about proper planting procedures and correct maintenance techniques.
12. All project materials and any associated marketing must be co-branded using the Lex Grow Trees branding.
13. A final report must be submitted within 30 days of completion of the project. This report shall include:
 - a. A description of the project and the benefits derived from its implementation;
 - b. Locations of trees planted, including species;
 - c. Locations of trees pruned or maintained, including species;
 - d. Information about events hosted, including topic, location, numbers of attendees, and photographs taken during the events;
 - e. A maintenance plan, if appropriate, or documentation of having maintenance discussions with individual property owners;
 - f. A summary table comparing the project budget to actual expenditures, along with supporting documentation;
 - g. Sample outreach and/or educational materials used.