

GRANT AWARD AGREEMENT

Fiscal Year 2018 Class B Infrastructure Incentive Grant Program

THIS AGREEMENT made and entered into on the 30 day of August, 2018 by and between the **LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT (LFUCG)**, an urban county government of the Commonwealth of Kentucky, pursuant to KRS Chapter 67A (hereinafter "Government"), on behalf of its Division of Water Quality, and **THE UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION (UKRF)**, 500 South Limestone, 109 Kinkead Hall., Lexington, Kentucky 40506-0057 (hereinafter "Grantee" and "Property Owner").

WITNESSETH:

WHEREAS, the Grantee is a documented fee-payer of the Government's Water Quality Management Fee; and

WHEREAS, the Grantee has proposed a need for the funds requested to develop and implement a proposed project by submitting a valid grant application; and

WHEREAS, the Grantee's grant application has been reviewed and selected for funding by the Water Quality Fees Board in accordance with Sections 16-408 and 16-410 of the Government's Code of Ordinances; and

WHEREAS, the Government has funds available through the Stormwater Quality Projects Incentive Grant Program to assist the qualified Grantee in the development and implementation of projects that meet the goals of the program; and

WHEREAS, the Grantee desires to implement a specific project that meets one or more Incentive Grant program goals to improve water quality, reduce stormwater runoff, and provide public or private education related to stormwater quality; and

WHEREAS, any such improvements funded by the Government shall benefit the public through installed improvements and/or educational programming;

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

- (1) The Government hereby grants the Grantee the sum of **\$299,400.00** (hereinafter "the Grant"), for use in implementing the project elements as listed in Attachment A which is incorporated herein by reference as if fully set out herein.
- (2) The Grantee agrees to use the Grant only for the activities set forth in Attachment A which includes installation of stormwater control infrastructure at the following site location(s): **Alumni Drive (across from The Arboretum), Lexington, Kentucky 40503,**

- (4) The Grantee agrees to comply with all applicable local, state, and federal rules, regulations, ordinances, and laws in implementation of the project.
- (5) The Grantee agrees to obtain all necessary local, state, and federal permits, encroachments, permissions, approvals etc. in a timely manner and prior to start of construction.
- (6) The Grantee agrees to perform periodic reporting as detailed in Paragraph (7) herein below, and produce a Project Final Report within thirty (60) calendar days of the completion of the project elements in digital and hard copy following a standardized format to be provided by the Government summarizing all work completed and detailing the total grant expenditures. Other deliverables include the following:
- (a) At the end of the Feasibility Phase (if applicable), the following five deliverables, sealed by a professional licensed to perform such work in accordance with Kentucky Revised Statutes (KRS), shall be provided:
 - Feasibility report evaluating the use of the potential BMP(s) on the proposed site;
 - Conceptual design concept;
 - Detailed cost estimate for design;
 - Conceptual cost estimate for construction;
 - Letter certifying all BMPs proposed for design as viable and feasible for the specific site and application.
 - (b) At the end of the Design Phase or prior to the start of the Construction Phase, the following six deliverables, sealed by a professional licensed to perform such work in accordance with Kentucky Revised Statutes (KRS), shall be provided:
 - Set of all final design calculations;
 - Set of final construction plans, including traffic control, erosion and sediment control, grading plans, etc.;
 - Set of final specifications and bidding documents (if applicable);
 - Final detailed engineer's construction cost estimate including quantities;
 - All required permit submittals and approvals;
 - Inspection, Operation, and Maintenance Plan laying out the plan for regular inspection and maintenance of each proposed facility for design performance and safety in accordance with manufacturer's specifications and the Government's Stormwater Manual.
 - (c) At the end of the Construction Phase, the following five deliverables shall be provided:
 - Summary of final construction costs and quantities;
 - Copies of all federal, state, and local permits obtained for the project;
 - Record Drawing showing all field changes, and signed and sealed by the professional of record certifying the project as shown meets all original design intent;
 - Photo documentation of site conditions and improvements before, during, and after construction;
 - Signed *Agreement to Maintain Stormwater Control Facilities*.
- (7) The Grant to the Grantee shall be disbursed in the following manner:

- (a) The Grantee shall submit at least once every three (3) months, if not specified otherwise in Attachment A, a Request for Funds to the Government's Grant Manager designated by the Director of the Division of Water Quality for the project. Each Request for Funds shall include documentation that the Grantee has already expend-

- (b) Each Request for Funds shall be accompanied by a Project Status Report describing the progress of the project to date, including a description and schedule of all activities completed, and hardcopy or electronic copies of materials (e.g. calculations, preliminary plans, etc.) completed to date. For educational events (if applicable), copies of the class rosters or sign-in sheets documenting the number of attendees shall be provided.
 - (c) The Government's Grant Manager shall review each Request for Funds and supporting documents for compliance with the terms of this Agreement and the guidelines of the Stormwater Quality Projects Incentive Grant Program. If the Grant Manager finds the Grantee's Request for Funds is in compliance with the terms of this Agreement and the guidelines of the Stormwater Quality Projects Incentive Grant Program and that the activity progress and management program of the Grantee satisfy the terms of the grant award, he or she shall approve the Request for Funds within 15 calendar days of receipt and then forward it to the Division of Accounting for payment.
 - (d) The Government shall release payment of the final 10% of the Grant only after receipt and acceptance of the Project Final Report. The Government's Grant Manager shall review the Project Final Report and provide comments to the Grantee or, if acceptable, forward approval within 15 calendar days of receipt to the Division of Accounting for payment.
 - (e) Should the Government's Incentive Grant Program Administrator determine that the Grantee is not in compliance with the terms of this Agreement and/or the Stormwater Quality Projects Incentive Grant Program, including deficiencies in progress and management of the project, the Division of Water Quality shall notify the Grantee, the Mayor's Office, and the appropriate district Council person, and shall meet with the Grantee on matters that prevent approval of the Request for Funds. Failure to resolve any such matters to the satisfaction of the Government may lead to termination of the Agreement for cause pursuant to Paragraph (20) herein below.
- (8) The Grantee agrees to obtain written approval from the Government's Grant Manager or Program Administrator for any proposed changes to the Project Team or Project Plan as listed in Attachment A prior to implementing the changes. Failure to gain written approval prior to making changes may lead to termination of the Agreement for cause pursuant to Paragraph (20) herein below.
 - (9) The Grantee agrees to complete the project phase(s) (i.e. Design and/or Construction) outlined herein within **18** months from the date of this Agreement. The Grantee shall obtain written approval from the Government's Grant Manager or Program Administrator for any time extensions beyond the schedule. Failure to obtain written approval prior to making changes may lead to termination of the Agreement for cause pursuant to Paragraph (20) herein below.
 - (10) This Agreement may not be modified except by written agreement of the Government and the Grantee.
 - (11) The Grantee understands that **the Grant amount shown herein in Paragraph (1) is a not-to-exceed amount**, and any additional funding needed to complete the project elements listed in Attachment A is the responsibility of the Grantee. If it becomes apparent to the Grantee or the Government that the Grantee will be unable to complete the project either in the manner or for the amount described in this Agreement, then the Grantee must

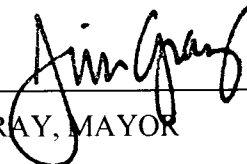
Chapter 16 – Sewage, Garbage, Refuse, and Weeds, or in compliance with Kentucky Department of Housing Buildings and Construction rules and requirements as is appropriate for those state institutions, parcels or buildings which are subject to state regulations and oversight as opposed to local ordinances and regulations. If the Grantee becomes out of compliance with any of these provisions, it will notify the Government's Grant Manager and Program Administrator immediately. Failure to notify the Government and resolve any such matters to the satisfaction of the Government may lead to termination of the Agreement for cause pursuant to Paragraph (20) herein below.

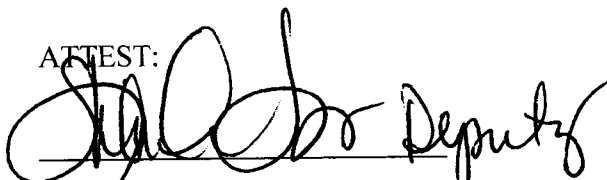
- (13) The Grantee agrees to allow the Government access to its property to perform monitoring of the project elements for compliance with this Agreement, as provided in the "*Agreement to Maintain Stormwater Control Facilities*" (Attachment B).
- (14) In any advertisement of the project funded by the Grant, whether written or oral communications, the Grantee agrees to identify the Lexington-Fayette Urban County Government as the source of the above referenced funds; the Grantee shall not specifically identify any individual or elected official as being responsible for the funds donated by the Government.
- (15) The Grantee agrees to allow the Government to publicize the Grantee's project through the Government's website and other media.
- (16) The Grantee agrees to reference the Lexington-Fayette Urban County Government's Water Quality Management Fee and the Stormwater Quality Projects Incentive Grant Program as a source of funding for the project on any permanent signage or educational brochures, presentations, websites, etc. produced using grant monies.
- (17) The Grantee and Property Owner agree that all stormwater control facilities, including equipment and infrastructure, constructed and funded by a Construction Grant through the Stormwater Quality Projects Incentive Grant Program shall remain in service and maintained by the Grantee or its representatives following the Inspection, Operation, and Maintenance Plan developed for each facility referenced in (6b) above. The Property Owner further accepts and agrees to enter into the "*Agreement to Maintain Stormwater Control Facilities Funded by an LFUCG Stormwater Quality Projects Class B Incentive Grant*" attached hereto as Attachment B and which is incorporated herein by reference as if fully set out herein.
- (18) The Grantee and Property Owner agree that all stormwater control facilities, including equipment and infrastructure, constructed and funded by this Grant shall remain the property of the current Property Owner, or his successors and assigns, unless otherwise specified in Attachments A and B.
- (19) The Grantee and Property Owner understand that if any of the Grant-funded facilities not owned by the Government are removed from service, the property owner of record at the time of removal shall be liable to reimburse the Government for 100% of the Remaining Value of the facility or portion removed, based upon the depreciation schedule provided in Attachment B.
- (20) If, through any cause, the Grantee or Property Owner shall fail to fulfill in timely and proper manner its obligations under this Agreement, or if the Grantee or Property Owner shall violate any of the covenants, agreements or stipulations of this Agreement, the Government shall provide the Grantee or Property Owner thirty (30) calendar days to address the deficiency or violation. If the Grantee or Property Owner does not, after the

- (21) The Grantee shall provide equal opportunity in employment as required by applicable federal, state, and local laws, regulations, and ordinances.
- (22) The Grantee is solely responsible for assuring that adequate and appropriate insurance or other necessary coverage is maintained during the term of this Agreement.
- (23) The Grantee's sole remedy for a breach of this Agreement by the Government shall be limited to the amount of the Grant.
- (24) The Government assumes no responsibility whatsoever in the Grantee's project activities. Grantee and Property Owner shall, to the extent allowed by Kentucky law, defend, indemnify, and hold harmless Government from and against all liability, claims, losses, actions, costs, expenses, obligations, fines, and assessments of whatever kind, including defense costs and attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, in whole or in part, from or by Grantee's or Property Owner's or its contractor(s), agents, or assigns, negligent acts or misconduct, or errors or omissions, in connection with the activities carried out pursuant to this Agreement, the Grant award or the Stormwater Quality Projects Incentive Grant Program.

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

LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT

BY: 
JIM GRAY, MAYOR

ATTEST: 
CLERK, URBAN COUNTY COUNCIL

Grantee Organization:

And Property Owner:

THE UNIVERSITY OF KENTUCKY RESEARCH
FOUNDATION

500 SOUTH LIMESTONE

109 KINKEAD HALL

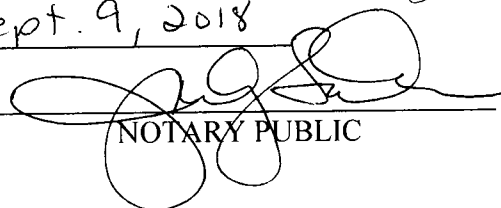
LEXINGTON, KY 40506-0057

GV BY: Kim C. Carter 7/16/2018
NAME: KIM C. CARTER, CRA, CPRA, CFPA
Executive Director, Office of Sponsored Projects Administration
University of Kentucky
TITLE: Associate Director, University of Kentucky Research Foundation

The foregoing Agreement was subscribed, sworn to and acknowledged before me by Kim Carter, as the duly authorized representative for and on behalf of UKRF, on this the 16th day of July, 2018.

My commission expires: Sept. 9, 2018




NOTARY PUBLIC

NOTARY PUBLIC

Account Director, University of Kentucky Research Foundation
University of Kentucky
Executive Director, Office of Sponsored Programs Administration
KIM C. CARTER, CRA, CPRA, CFPRA

ATTACHMENT A
to the GRANT AWARD AGREEMENT
between Lexington-Fayette Urban County Government (LFUCG) and
The University of Kentucky Research Foundation

GRANT PROGRAM: FY2018 Stormwater Quality Projects Incentive Grant Program
Class B Infrastructure Projects

- Funded through the LFUCG Water Quality Management Fee
- Administered by the LFUCG Division of Water Quality in the Department of Environmental Quality & Public Works
- Design and Construction Grant

PROJECT TEAM AND CONTACT INFORMATION

**Grantee Organization
And Property Owner:** The University of Kentucky Research Foundation (UKRF)
500 South Limestone
109 Kinkead Hall
Lexington, KY 40526-0001
KY Organization #: 0052708

Primary Project Contact: Kim C. Carter, Associate Director
859-257-9420 (phone)
ospa@uky.edu (email)

Secondary Project Contact: Carmen Agouridis
859-218-4344 (phone)
carmen.agouridis@uky.edu (email)

Project Manager: Kim C. Carter, Associate Director
859-257-9420 (phone)
ospa@uky.edu (email)

Project Site Location(s): Alumni Drive – across from The Arboretum
Lexington, KY
PVA #: 04018930

Design Consulting Firm: TBD

Other Stakeholders: Kevin Lewis – UK Water Quality Compliance Manager; George Riddle – Manager of UK's Campus Physical Plant (UK Campus Physical Plant); Jerry Hart – Superintendent of Ground's (UK Campus Physical Plant); Shane Tedder – Sustainability Coordinator (UK Facilities Management)

PROJECT PLAN ELEMENTS

1) *STORMWATER CONTROL FACILITIES:*

The purpose of this project is to improve water quality and reduce stormwater runoff by mitigating issues of standing water, erosion, and water backing up current stormwater control mechanisms.

All improvements shall be located on the properties at Alumni – across from the Arboretum (Parcel # 04018930), Lexington, KY, 40503 owned by UKRF. No other property or Right of-Way shall be disturbed without the written permission from the property owners and/or LFUCG.

This project element includes design and construction of the stormwater control facilities at the specified site location as seen in Figure 1. The proposed facilities are listed below and are further described in the Organization's Incentive Grant application. Alterations to these elements can only be made in consultation with the LFUCG Grant Manager. Significant alteration of these elements may require approval by the LFUCG Water Quality Fees Board.

- a) Stream Restoration: for quality and quantity control. The stream restoration focuses on the limits shown on Figure 1 Project Map at an unnamed tributary (UT) to West Hickman Creek (HUC-14 05100205120040). The stream restoration shall utilize *Ch. 9* of the *LFUCG Stormwater Manual*, 2016 as a guide.

The project shall also utilize the following additional BMPs from *Ch. 10* of the *LFUCG Stormwater Manual*, 2016.

- b) Riparian Buffer Restoration: The project will restore the riparian buffer adjacent to the UT of Hickman Creek with the goals of filtering pollutants (e.g., sediment, nutrients), stabilizing streambanks, improving aquatic habitat (e.g., shading, carbon inputs), improving field habitat (e.g., cover, pollinator-friendly species), providing flood protection (e.g., evapotranspiration, interception, macropore development), and improving aesthetics (e.g., visual diversity).
- c) Bio-infiltration Swale: The project will create a bioswales in the traffic island to slow, filter, and infiltrate stormwater runoff. The bioswales will allow for the conveyance and treatment of stormwater (portion not infiltrated or evapotranspired).
- d) Enhanced hyporheic zone: designed to reduce nitrates through denitrification (e.g., modified woodchip bioreactor). This design has been employed at other stream restoration projects in Lexington (e.g., MMSK and Clays Mill Elementary – both received funding from the Stormwater Quality Projects Incentive Grant Program; UK's section of Vaughn's Branch)
- e) Education: At a minimum, organization shall provide stormwater education to include the creation of an outdoor classroom to research and demonstrate water quality protection and water quantity reduction BMPs.

1) **DESIGN DOCUMENTS:**

Design Plans shall be provided to the LFUCG Grant Manager for review prior to starting construction phase of the project.

- The stormwater control facilities shall be designed in such a way as to meet the LFUCG definition for an Engineered Wetland/Riparian Buffer Planting Area per the Engineering Stormwater Manual.
- All existing utilities shall be located and shown on the design plans.
- All existing easements, adjacent property lines, and Rights-of-Way shall be shown on the design plans. If any work is proposed to occur within any easement (i.e. utility, etc.), whether public or private, the Organization shall obtain all necessary encroachment agreements for the authorized agencies prior to the start of construction.
- Any work proposed within or on public right-of-way, easement, or LFUCG-owned property will require one or more permits or approvals. This includes installation permits for connection into any existing curb inlet or stormwater manhole located within public right-of-way. Please contact the appropriate staff:

Environmental Services (street trees), Tim Queary – tqueary@lexingtonky.gov

Engineering (right-of-way), Brian Knapp – bknapp@lexingtonky.gov

on appropriate timing for permit submittals. The Organization is fully responsible to determine which approvals, permits, and encroachments are required for the project.

- Erosion and sediment control and traffic control measures shall be designed to meet all standards and follow guidelines in the LFUCG Engineering Manuals, and shall be shown on the design plans with appropriate notes.

3) *STORMWATER CONTROL FACILITIES CONSTRUCTION:*

No grant-funded construction activities shall occur until the LFUCG Grant Manager gives notice-to-proceed, in writing, for the start of the construction phase of the project.

Facilities shall be constructed per the design plans and specifications. Construction of the proposed facilities shall also meet the following stipulations:

- Construction shall not begin until all permits, approvals, agreements, etc. are obtained and copies provided to the LFUCG Grant Manager.
- All existing utilities shall be located, contacted, and coordinated with prior to any work being performed.
- The Stormwater Pollution Prevention Plan, including the Erosion and Sediment Control Plan, shall be provided to the LFUCG Divisions of Water Quality and Engineering for review. The LFUCG Land Disturbance Permit shall be obtained by the contractor after placement of the ESC and traffic control measures.
- Failure to place acceptable erosion and sediment control measures into service prior to start of construction will result in shut-down of the job site until the measures are put in place. Construction practices shall be put in place to prevent the illicit discharge of sediment, dirt, sand, fluids, trash, and any other pollutant into the Municipal Separate Storm Sewer System or Waters of the Commonwealth.
- The Organization shall host a pre-construction/construction meeting with all parties related to the Stormwater Control Facilities. The LFUCG Grant Manager shall be invited 5 days in advance of this meeting.
- The Organization is responsible for providing all construction oversight, administration, and daily inspections. LFUCG shall not provide these services.
- The Organization shall document construction by taking before, during, and after photographs. Photographs shall be provided in digital format to the LFUCG Grant Manager.
- Once construction of the Stormwater Control Facilities is complete, a final walk-thru inspection shall be performed. The LFUCG Grant Manager shall be invited to this inspection and given 5 days notice. If punch-list items are identified, a second inspection shall be performed once those items are resolved, and the LFUCG Grant Manager shall be invited to this inspection and given 3 days notice.
- The Organization agrees to enter into the *Agreement to Maintain Stormwater Control Facilities Funded by an LFUCG Stormwater Quality Projects Class B Incentive Grant* included in Attachment B of the Grant Award Agreement within 21 calendar days of the final (post punch-list) inspection. This Agreement shall be recorded by LFUCG.

- Set of final construction plans, including erosion and sediment control plans, grading plans, etc. (Including one "half-size" set.)
 - Set of final specifications and bidding documents (if applicable).
 - Final detailed engineer's construction cost estimate including quantities and/or bid(s).
 - All local, state or federal required permits, approvals, public or private encroachment agreements etc. received to date for the project.
 - Inspection, Operation, and Maintenance Plan laying out the plan for regular inspection and maintenance of each proposed facility for design performance and safety in accordance with manufacturer's specifications and LFUCG's Stormwater Manual. The O&M Plan must include prohibitions against storage of certain materials on the permeable pavement.
 - Existing Condition photographs.
- 2) The Organization shall allow LFUCG twenty-one (21) calendar days to review the submittals and provide comments. If revised submittals are required, the Organization shall allow LFUCG ten (10) calendar days for review per submittal. LFUCG may choose to have a third party engineering consultant assist LFUCG in review of these submittals.
- 3) If the project is competitively bid, the selected contractor's unit price contract/bid list shall be provided to the LFUCG Grant Manager prior to the start of construction.
- 4) If the project is not competitively bid, the selected contractor's unit price contract shall be provided to the LFUCG Grant Manager prior to the start of construction, along with a justification for any deviations from the engineer's construction cost estimate.
- 5) **The construction phase shall begin only after the LFUCG Grant Manager gives notice-to-proceed, in writing, for the start of the construction phase of the project.**
- 6) If, during construction, the contractor requests a deviation or addition to the quantities or costs in the construction contract, the LFUCG Grant Manager shall be notified within 2 business days. Additions or modifications to the project that are not directly related to the intended and correct function of the stormwater control project elements as described in the Project Plan Elements listed above and in original incentive grant application are not eligible for Grant reimbursement. Therefore, the Organization is advised that it should coordinate closely with the LFUCG Grant Manager during construction to ensure the work being performed is in compliance with this Agreement. **Note that per the Grant Award Agreement all over-runs that result in the project costs exceeding the Grant amount are the responsibility of the Organization.**
- 7) After construction is completed, the Project Final Report shall include digital and hard copies of the following:
- Summary of final construction costs and quantities.
 - Copies of all federal, state, and local permits obtained for the project (if not previously provided) and any permit closure documents.
 - 3 copies of a Record Drawing showing all field changes, and signed and sealed by the professional of record certifying the project as shown meets all original design intent.
 - Copies of final inspection minutes, punchlists, etc.
 - Photo documentation of site conditions and improvements before, during, and after construction.
 - *Signed Agreement to Maintain Stormwater Facilities Funded by an LFUCG Stormwater Quality Projects Class B Incentive Grant* (Note: This form will be provided by LFUCG after construction is completed and final costs determined.).

EDUCATIONAL OPPORTUNITIES

At a minimum, organization shall provide stormwater education in the form of creating an outdoor classroom to research and demonstrate water quality protection and water quantity reduction BMPs. *Per the Application*, additional stormwater education opportunities stemming from this project may include:

- The high volume of vehicular traffic and pedestrian traffic (particularly during daily commutes and athletic events) provides substantial opportunities for passive education through signs (e.g., signage similar to Legacy Trail signs regarding Cane Run, signage being placed at The Arboretum).
- Incorporation of the project site into UK classes. Immediate opportunities include Dr. Agouridis's course BAE 532/CE 542 Introduction to Stream Restoration. A student intern sponsored by UK's Tracy Farmer Institute for Sustainability and the Environment (TFISE) and UK's Student Sustainability Council will help Dr. Agouridis identify other courses in programs such as Natural Resource and Environmental Science (NRES), Environmental & Sustainability Studies, Horticulture, Landscape Architecture, etc. Incorporation of this project into research experiences for undergraduate and graduate students. This project offers students the opportunity to evaluate the performance of the project in relation to water quality, water quantity, vegetation, habitat quality, educational impacts, etc.
- Incorporation of this project into extension/outreach activities such as workshops (general public, professionals), extension publications, and videos. UK's Agricultural Communications developed a video for the restoration of Vaughn's Branch. See <https://www.youtube.com/watch?v=0j6gHgXLT4Y>
- Incorporation of the project into UK Physical Plant personnel training, specifically Grounds personnel.

PERMANENT FACILITIES/INFRASTRUCTURE

Ownership: The proposed facilities are expected to reside on private property in Fayette County and be owned by the Property Owner.

Future Inspection and Maintenance: The Organization (and/or Property Owner) agrees to sign and abide by the terms of the *Maintenance Agreement for Stormwater Control Facilities Funded by an LFUCG Stormwater Quality Projects Class B Incentive Grant* included as Attachment B to the Grant Award Agreement. The property owner is solely responsible for future maintenance of the grant funded improvements as long as the improvements are in service.

Monitoring by LFUCG: The Organization agrees to allow LFUCG staff future access to any property on which work is performed to monitor the installed features for compliance with this Agreement during the grant period. After the grant period has ended, the Organization agrees to allow LFUCG access for monitoring per the terms of the Maintenance Agreement. Water quality sampling via grab samples or other methods may be employed by LFUCG staff as part of LFUCG's annual reporting requirement of its Kentucky Pollutant Discharge Elimination System (KPDES) MS4 Phase 1 permit.

ADDITIONAL STIPULATIONS

1. The project shall not proceed with field work until written approval to proceed is obtained from the Grant Administrator or Director or Water Quality, because of the potential for conflict with potential future LFUCG Projects.

LFUCG Grant Manager. The project schedule shown in Table 1 is preliminary. Proposed changes to the project which alter this schedule significantly shall be discussed with the LFUCG Grant Manager prior to implementation.

TABLE 1 – PROJECT SCHEDULE

Activity	Start Date
Notice to Proceed	February 2018
Development of Request for Proposal (RFP) with UK's Purchasing Division	February 2018
Awarding of design/build contract	April 2018
Kickoff meeting with UK team members, LFUCG, and design/build team	April 2018
Stakeholder/community meeting	April 2018
Design/build team to present 50% design to UK team members and LFUCG for review. Present reviewed 50% design to stakeholders/community	May 2018
Present 90% design for review.	June 2018
Present 90% design to stakeholders/community groups.	June 2018
Construction	July – August 2018
Plant trees and other vegetation in riparian buffer	Spring 2019
Final report to LFUCG for final payment	Spring 2019

PROJECT BUDGET – GRANT ELIGIBLE EXPENSES

The project budget is broken into the following components based upon the Organization's incentive grant application:

1. Design Phase: **\$ 38,000.00**
2. Construction Phase: **\$ 340,438.00**

TOTAL PROJECT COSTS: \$ 378,438.00

The total project cost estimate and breakdown of grant to cost share is as follows:

Total Grant Share	\$ 299,400.00 not to exceed
Estimated Cost Share	<u>\$ 79,038.00</u>
Est. Total Project Cost	\$ 378,438.00

Table 2 lists the Eligible Expenses for the design and construction phases of this project. Only properly invoiced items shall be reimbursed with grant monies or counted toward the Organization's cost share.

Any work performed on this project prior to grant award by Urban County Council and Notice-to-Proceed from the LFUCG Grant Administrator is not an eligible expense and shall not be reimbursed or counted toward the cost share with the following exception:

- NONE

Construction cost items given in Table 2 are conceptual and the construction estimate will be revised and submitted to LFUCG Grant Manager for review prior to construction and again once bids are received. **The Grant is a not-to-exceed amount, and any cost overruns are the responsibility of the Grantee.** Note that the Grant shall not be used to fund any project element that is required by local, state or federal regulation in relation to any new development or re-development unrelated to the stormwater quality improvement project as described herein that were to occur on-site at the same time as this project. Donated professional service hours, valued at the Median Hourly Wage for the expense provided – from the U.S. Department of Labor, Bureau of Labor Statistics, State Occupational Employment and Wage Estimates for Kentucky

TABLE 2 – ELIGIBLE EXPENSES

	Type of Expense	Participants	Item	Unit Price	Quantity	Funded by Organization	Funded by Grant	Total Expense
1	Engineering Design/Grant Management Costs							
2	Design/Grant Management	Consultant (tbd)	Conceptual design and Project Management	\$ 5,000.00	LS 1.0	\$ -	\$ 5,000.00	\$ 5,000.00
3	Design/Grant Management	Consultant (tbd)	Stakeholder/community meetings	\$ 1,000.00	LS 1.0	\$ -	\$ 1,000.00	\$ 1,000.00
4	Design/Grant Management	Consultant (tbd)	Topographic and utility survey	\$ 3,000.00	LS 1.0	\$ -	\$ 3,000.00	\$ 3,000.00
5	Design/Grant Management	Consultant (tbd)	Geotechnical investigation	\$ 2,000.00	LS 1.0	\$ -	\$ 2,000.00	\$ 2,000.00
6	Design/Grant Management	Consultant (tbd)	Engineering design	\$ 20,000.00	LS 1.0	\$ -	\$ 20,000.00	\$ 20,000.00
7	Design/Grant Management	Consultant (tbd)	Grading plan, profile, details preparation	\$ 5,000.00	LS 1.0	\$ -	\$ 5,000.00	\$ 5,000.00
8	Design/Grant Management	Consultant (tbd)	Planting plan	\$ 1,000.00	LS 1.0	\$ -	\$ 1,000.00	\$ 1,000.00
9	Design/Grant Management	Consultant (tbd)	Permitting preparation assistance	\$ 1,000.00	LS 1.0	\$ -	\$ 1,000.00	\$ 1,000.00
10	Construction Costs							
11	Construction	Contractor (tbd)	Stream restoration w/ enhanced hyporheic zone	\$ 300.00	LF 610.0	\$ -	\$ 183,000.00	\$ 183,000.00
12	Construction	Contractor (tbd)	Riparian Buffer	\$ 2,000.00	AC 2.5	\$ -	\$ 4,900.00	\$ 4,900.00
13	Construction	Contractor (tbd)	Bio-infiltration swale	\$ 21.00	SF 2,000.0	\$ -	\$ 42,000.00	\$ 42,000.00
14	Construction	Contractor (tbd)	Construction Oversight	\$ 10,000.00	LS 1.0	\$ -	\$ 10,000.00	\$ 10,000.00
15	Construction	Contractor (tbd)	As-built survey	\$ 1,500.00	LS 1.0	\$ -	\$ 1,500.00	\$ 1,500.00
16	Construction	Contractor (tbd)	Warranty (one-year)	\$ 10,000.00	LS 1.0	\$ -	\$ 10,000.00	\$ 10,000.00
17	Construction	Contractor (tbd)	Native vegetation maintenance	\$ 10,000.00	LS 1.0	\$ -	\$ 10,000.00	\$ 10,000.00
18	Other (Miscellaneous) Costs							
19	Other (Miscellaneous)	Cost-share	UK Student Sustainability Council	\$ 50,000.00	LS 1.0	\$ 50,000.00	-	\$ 50,000.00
20	Other (Miscellaneous)	Cost-share	Dr. Agouridis (cost share of \$29,038)	\$ 29,038.00	LS 1.0	\$ 29,038.00	-	\$ 29,038.00
21								
22								
23								
24								

FIGURE 1 – PROJECT AREA (FROM APPLICATION)

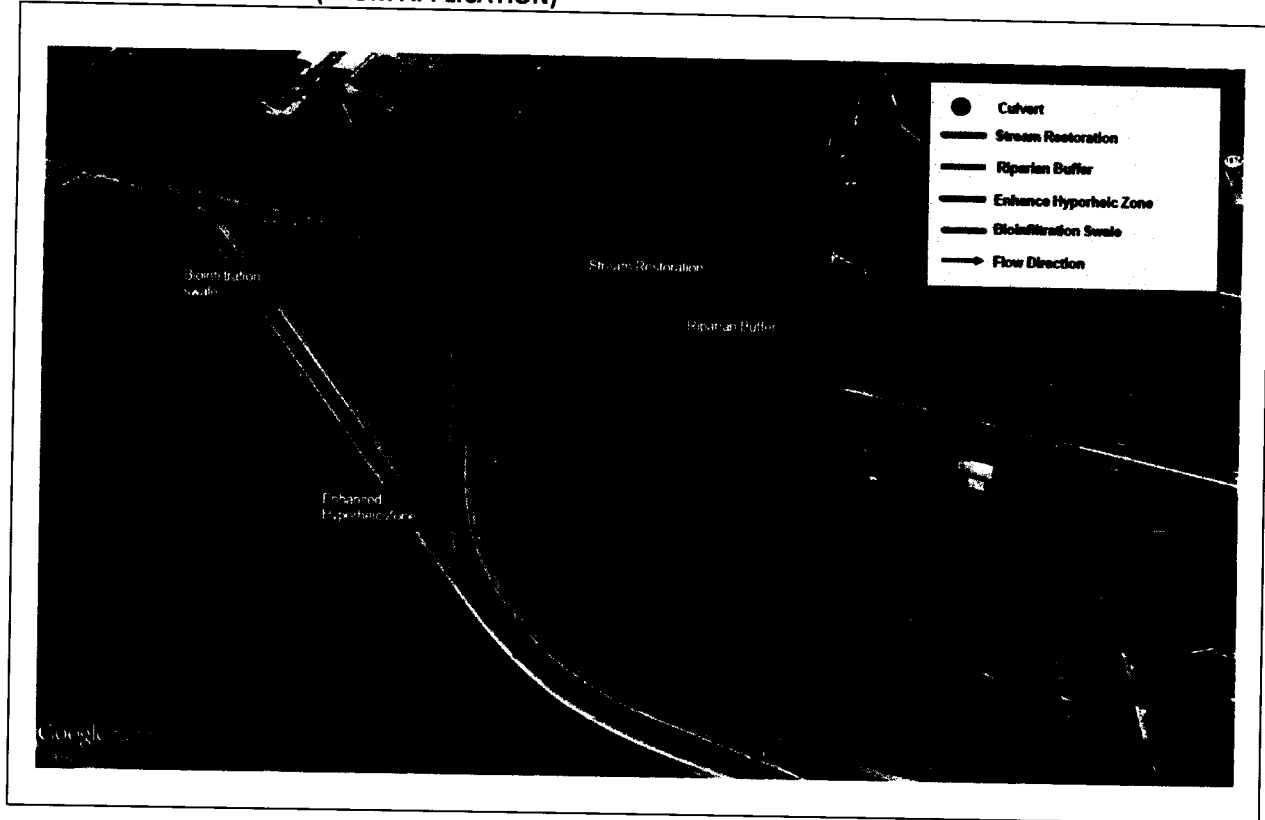


FIGURE 2 – UK MUNICIPAL SEPARATE STORM SEWER SYSTEMS ~ MS4 BOUNDARY MAP (FROM APPLICATION)

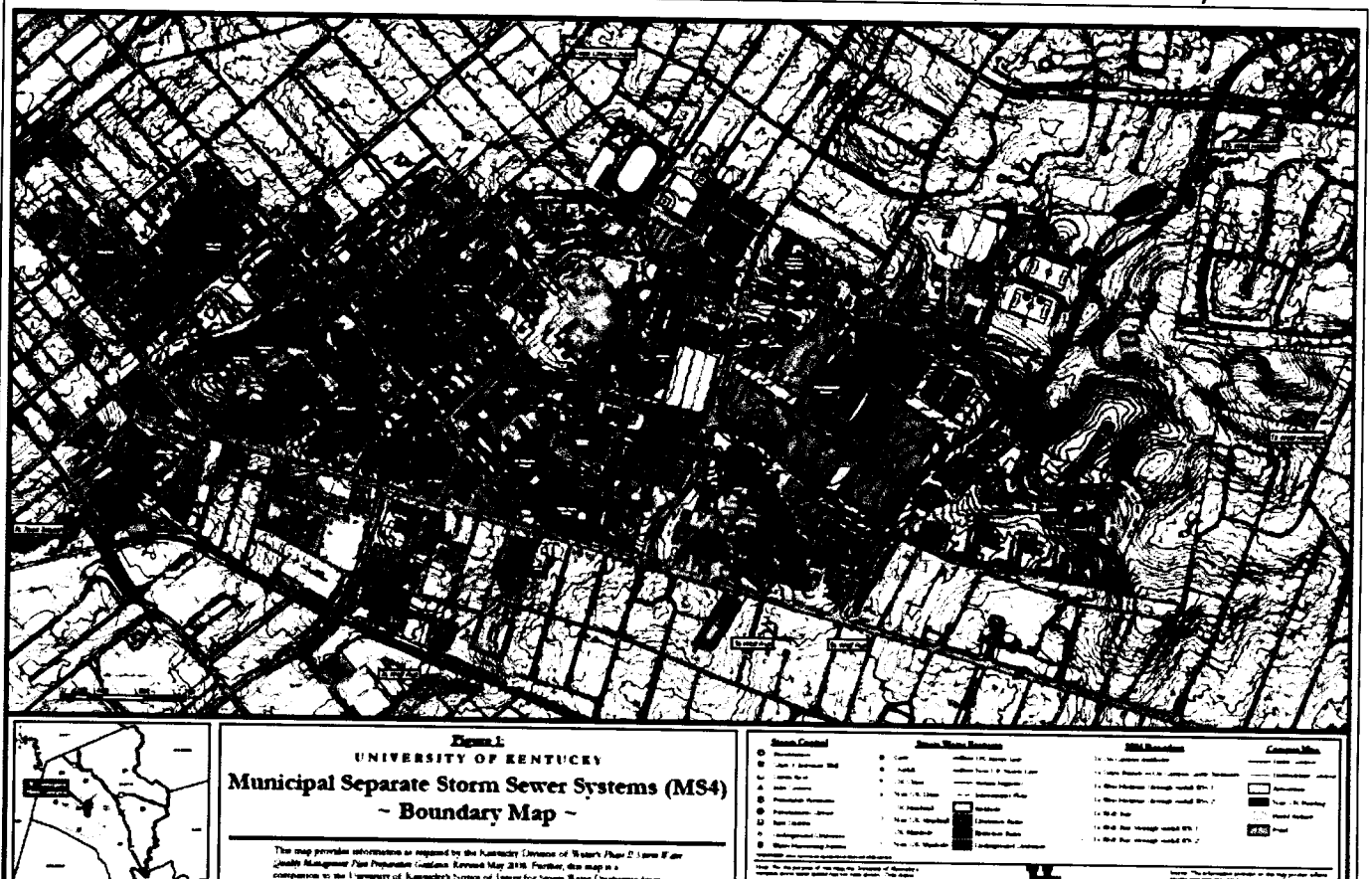
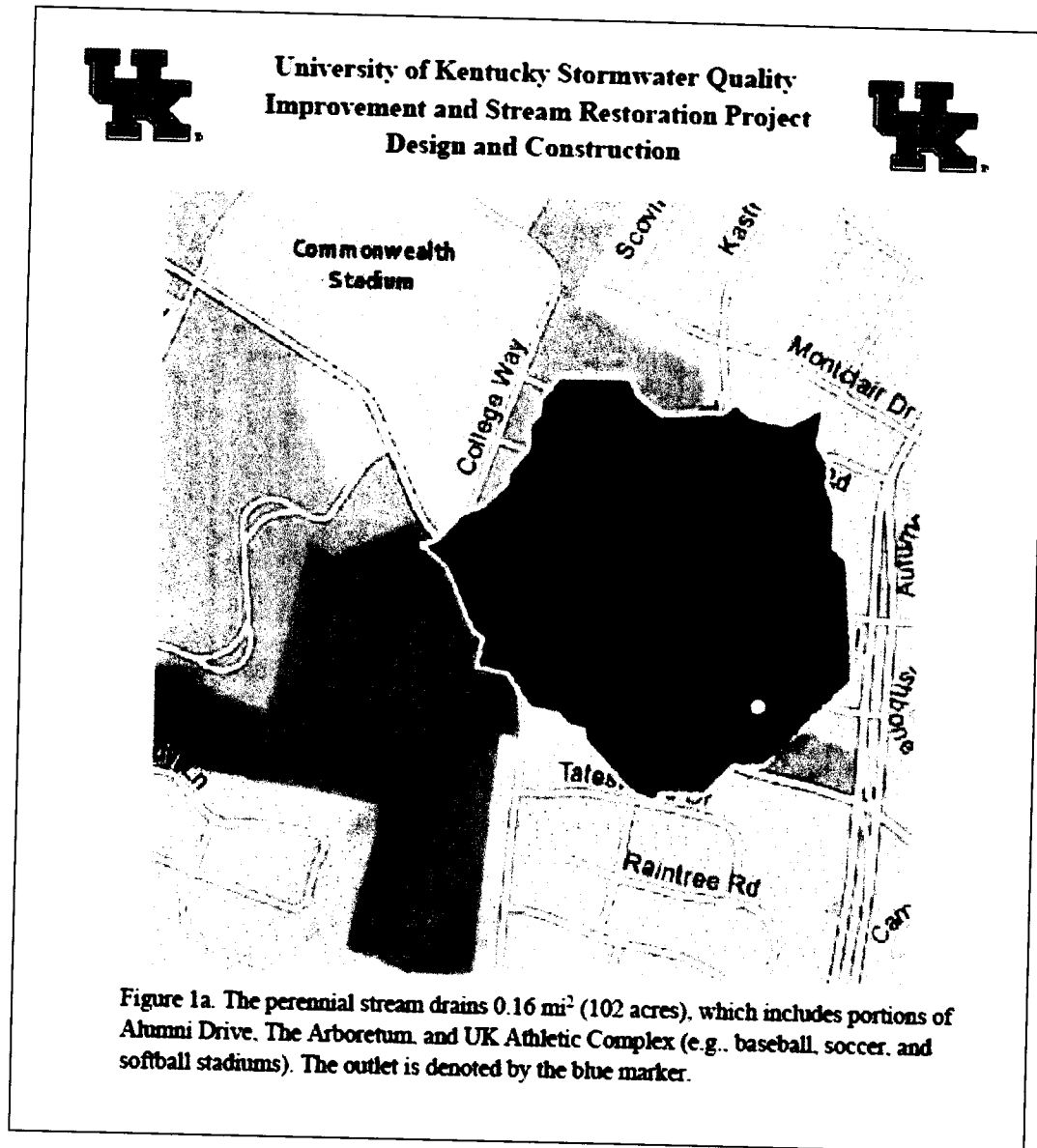
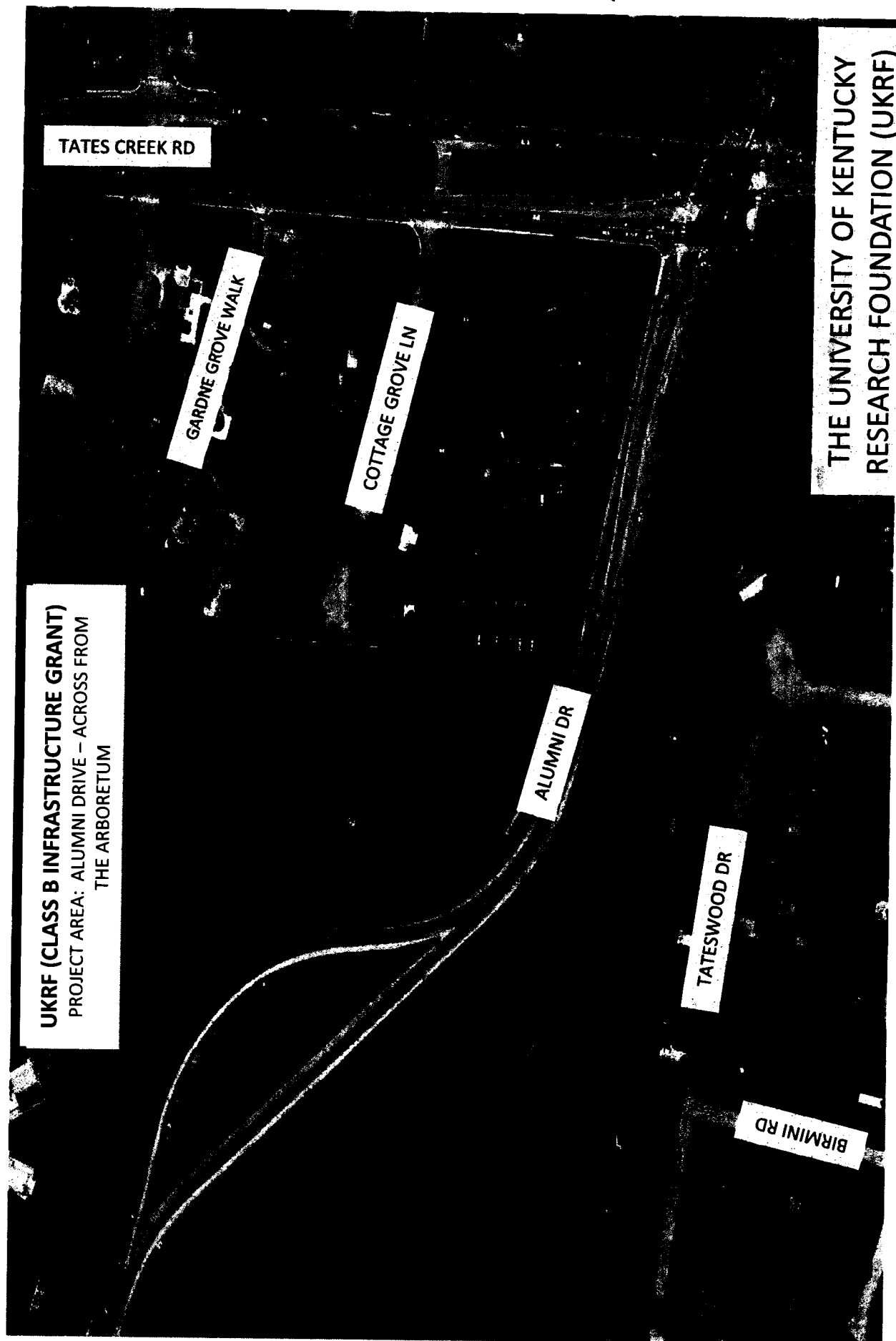


FIGURE 3 – UK STORMWATER QUALITY IMPROVEMENTS & STREAM RESTORATION DRAINAGE AREA MAP (FROM APPLICATION)

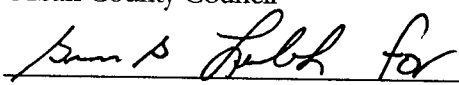


Stormwater Quality Projects Incentive Grant Program





TO: Mayor Jim Gray
Urban County Council

FROM : 
Charles H. Martin, P.E., Director
Division of Water Quality

DATE: July 24, 2018

SUBJECT: Recommendation for a FY18 (Class B Infrastructure) Stormwater Quality Projects
Incentive Grant for The University of Kentucky Research Foundation (UKRF)

Request

The purpose of this memorandum is to request approval of a FY18 (Class B Infrastructure) Stormwater Quality Projects Incentive Grant for The University of Kentucky Research Foundation (UKRF) in the amount of \$299,400.00.

Purpose of Request

The purpose of this project is to restore an unnamed tributary (UT) to West Hickman Creek (stream and valley) in a similar manner of the previously restored section of Vaughn's Branch on UK's property. The project elements include a riparian buffer restoration; bio-infiltration swale; an enhanced hyporheic zone (designed to reduce nitrates through denitrification); the creation of an outdoor classroom for stormwater education to research and demonstrate water quality protection and water quantity reduction BMP's.

Project Cost in FY19 and in Future Budget Years

The grant has been approved by the Water Quality Fees Board in the amount of \$299,400.00 and will be fully spent by FY20.

Are Funds Budgeted

Funds will be budgeted in: 4052 – 303204 – 3373 – 78112 – WQINCENTIVE_18 – WQ_GRANT

Budget amendment in process.

Martin

