

between Lexington-Fayette Urban County Government (LFUCG) and to the GRANT AWARD AGREEMENT Transylvania University ATTACHMENT A

GRANT PROGRAM: FY2017 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

And Property Owner: Grantee Organization

Transylvania University

300 North Broadway Lexington, KY 40508

KY Organization #: 0052072

Project Site Location:

350 N. Broadway

Lexington, KY 40508-1706 PVA # 04037130

Project Manager and Primary Project Contact:

Marc A. Mathews (Vice President for Finance & Business)

859-233-8100 (phone)

mmathews@transy.edu (email)

Secondary Project Contact: Charlie Redmon

(Director of Physical Plant)

859-233-8287

credmon@transy.edu

Design Engineering Firm(s): CDP Engineers

3250 Blazer Parkway Lexington, KY 40509 859-264-7500 (phone)

(Engineer of Record) Krista Citron, P.E

kcitron@cdpengineers.com

Scott Southall, ASLA, AICP, LEED AP BD+C

(Project Manager/Landscape Architect of Record)

southall@cdpengineers.com (email)

Project Partners:

CDP Engineers, Inc., Kentucky Ready Mix Concrete Association

(Trade Association)

PROJECT PLAN ELEMENTS

1) STORMWATER CONTROL FACILITIES:

improving a portion of an existing parking lot which holds water during and after rain events. The purpose of this project is to improve the stormwater quality discharging from the facility by

All improvements shall be located on the property 350 North Broadway, Lexington, KY, 40508-1706 owned by Transylvania University. No other property or Right of-Way shall be disturbed without the written permission from the property owners and/or LFUCG.

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

- a) approximately This is for the western most employee parking lot. Pavement: 7,286 square for quality quality and quantity control. Removal and refeet of impervious parking lot to permeable Removal and retrofit
- 6 Resurface Asphalt: for water quality and quantity control. Resurface remaining asphalt pavement to direct runoff into the newly installed permeable areas.
- 0 the installation of the pervious concrete to be included in course curriculum as appropriate. Installation of two educational/interpretive sign panels to be installed Students and staff members to partner and paint several drains around Upper and 4th Streets that will be directly impacted by this infrastructure project Information on this project, both the restoration of the Upper Street hillside and

2) **DESIGN DOCUMENTS:**

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

- a. engineering principles and practices for permeable pavements). The permeable pavement system shall be designed in such a way as to meet the LFUCG definition for an Engineered Pervious Surface (i.e. the design shall follow standard
- 6. sanitary sewer line and measures shall be taken to prevent infiltrating water from entering The permeable pavement system shall not be installed within 10 feet horizontally of any the sanitary sewer trench.
- C adjacent roadway or the proposed improvements. The design shall include an underdrain system to allow for hydraulic relief and prevent ponding of water above the stone base. The For the permeable pavement systems, the design shall include barriers and underdrains as necessary to prevent washing, scouring, or damage of any kind to the road base of any design documents for the permeable pavement shall include a description of:
- = etc. Only open-graded (e.g. single-sized), certified washed stone is allowed. The Aggregate specification in the design documents shall meet or exceed the following: "All Base and Bedding aggregates shall be washed with less than 1% passing the No. 200 sieve and certified as clean. Certifications shall be provided to the Engineer or Profile detail of the proposed surface (e.g. stone to paver) indicating all sizes of stone Owner prior to unloading on site"
- Ξ public sidewalk either directly via a pipe or from seepage coming from the stone base. other stormwater control structure. be connected into an existing storm sewer inlet or discharge into an existing gutter or Detail of the proposed underdrain system and plan view of its locations and how it will Water shall not be allowed to discharge onto a
- Slope of the stone base and use of barriers, if necessary, to prevent high velocities and scour within the stone base.
- d. All existing utilities shall be located and shown on the design plans.
- 0 agreements for the authorized agencies prior to the start of construction. whether public or private, All existing easements, adjacent property lines, and Rights-of-Way shall be shown on the If any work is proposed to occur within any easement (i.e. utility, etc.), c or private, the Organization shall obtain all necessary encroachment
- connection into any existing curb inlet or stormwater manhole located within public rightof-way. Please contact the appropriate staff: will require Any work proposed within or on public right-of-way, easement, or LFUCG-owned property one or more permits or approvals. This includes installation permits for

Environmental Services (street trees), Tim Queary - tqueary@lexingtonky.gov Stormwater, Greg Lubeck – glubeck@lexingtonky.gov Sanitary Sewers, Rod Chervus – rchervus@lexingtonky.gov Engineering (New Development), Hillard Newman - <u>hnewman@lexingtonky.gov</u> Engineering (right-of-way), Dan Kiser – dkiser2@lexingtonky.gov

- 9 the Organization shall coordinate with the LFUCG Grant Manager and permitting agencies All federal, state, and local permits, approvals, and agreements required for construction of the proposed improvements shall be obtained prior to the start of construction. If the timing determine which approvals, permits, and encroachments are required for the project. on appropriate timing for permit submittals. The Organization is fully responsible to of construction is such that a permit may expire before construction can be completed, then
- Þ. standards and follow guidelines in the LFUCG Engineering Manuals, and shall be shown on the design plans with appropriate notes. Erosion and sediment control and traffic control measures shall be designed to meet all

3) STORMWATER CONTROL FACILITIES CONSTRUCTION:

gives notice-to-proceed, in writing, for the start of the construction phase of the project. grant-funded construction activities shall occur until the LFUCG Grant Manager

- proposed facilities shall also meet the following stipulations: shall be constructed per the design plans and specifications. Construction of the
- 9 and copies provided to the LFUCG Grant Manager. Construction shall not begin until all permits, approvals, agreements, etc. are obtained
- C All existing utilities shall be located, contacted, and coordinated with prior to any work
- d. placement of the ESC and traffic control measures. The Stormwater Pollution Prevention Plan, including the Erosion and Sediment Control Plan, shall be provided to the LFUCG Divisions of The LFUCG Land Disturbance Permit shall be obtained by the contractor after Water Quality and Engineering for
- 0 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 Failure to place acceptable erosion and sediment control measures into service prior to Storm Sewer System or Waters of the Commonwealth.
- f related to the Stormwater Control Facilities. The LFUCG Grant Manager shall be invited 5 days in advance of this maximum. 5 days in advance of this meeting. Organization shall host a pre-construction/construction meeting with all
- à The Organization is responsible for providing all construction oversight, administration, and daily inspections. LFUCG shall not provide these services.
- ħ. photographs. Organization shall document construction by taking before, Photographs shall be provided in digital format to the LFUCG Grant during, and after
- :-shall be performed once those items are resolved, and the LFUCG Grant Manager shall be Once constructions of the Stormwater Control Facilities are complete, inspection and given 5 days notice. If punch-list items are identified, a second inspection invited to this inspection and given 3 days notice. inspection shall be performed. The LFUCG Grant Manager shall be invited to this a final walk-thru
- Ģ٠ The Organization Facilities Funded by an LFUCG Stormwater agrees to enter into the Agreement to Maintain Stormwater Control Quality Projects Class B Incentive Grant

signage will be included in Attachment B. Fayette County Clerk's office. It is anticipated the permeable pavement and educational final (post punch-list) inspection. included in Attachment B of the Grant Award Agreement within 21 calendar days of the This Agreement shall be recorded by LFUCG at the

REPORTING REQUIREMENTS

- Prior to Construction, the Organization shall provide the LFUCG Grant Manager 3 hard copies and one digital copy each of the following deliverables, each sealed by a professional licensed to perform such work in accordance with Kentucky Revised Statutes (KRS):
- Set of all final design calculations
- etc. (Including one "half-size" set.) Set of final construction plans, including erosion and sediment control plans, grading plans
- Set of final specifications and bidding documents (if applicable).
- Final detailed engineer's construction cost estimate including quantities and/or bid(s).
- agreements etc. received to date for the project. All local, state or federal required permits, approvals, public or private encroachment
- 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) ten (10) calendar days for review per submittal. LFUCG may engineering consultant assist LFUCG in review of these submittals. and provide comments. If revised submittals are required, the Organization shall allow LFUCG Organization shall allow LFUCG twenty-one (21) calendar days to review the submittals LFUCG may choose to have a third party
- 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 justification for any deviations from the engineer's construction cost estimate 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
- 5) The construction phase shall begin only after the LFUCG Grant Manager gives noticeto-proceed, in writing, for the start of the construction phase of the project.
- 9 that result in the project costs exceeding the Grant amount are the responsibility of the 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 compliance with this Agreement. LFUCG Grant Manager during 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 during construction, the contractor requests a deviation or addition to the quantities or costs Note that per the Grant Award Agreement all over-runs construction to ensure the work
- 7 the following: After construction is completed, the Project Final Report shall include digital and hard copies of
- Summary of final construction costs and quantities
- provided) and any permit closure documents. Copies of all federal, state, and local permits obtained for the project (if not previously
- professional of record certifying the project as shown meets all original design intent. copies of a Record Drawing showing all field changes, and signed and sealed by the
- Copies of final inspection minutes, punchlists, etc.
- construction Photo documentation of site conditions and improvements before, during, and after

- V 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.).
- Any materials generated and documentation of course materials utilized in curriculum.
- LFUCG shall make final payment of the 10% retainer after acceptance of the Project Final

EDUCATIONAL OPPORTUNITIES

- the installation of the pervious concrete to be included in course curriculum as appropriate. This project looks to provide storm water education to faculty members, staff, students and Information on this project, both the restoration of the Upper Street hillside and
- 5 the campus for dance recitals, plays, speakers, athletic camps, athletic events, the City's signage will be seen by members of faculty, staff, students and the many guests who visit sidewalk at the corner of Little Theatre closes to Hazelrigg Hall and Upper Street. installed at the walkway between Mitchell Fine Arts Center and Little Theatre and near the The project shall include the installation of two educational/interpretive sign panels to be Fourth of July celebration and more.
- Students and staff members to partner and paint several drains around Upper and 4th Streets that will be directly impacted by this infrastructure project.

PERMANENT FACILITIES/INFRASTRUCTURE

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

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. Future Inspection and Maintenance: The Organization (and/or Property Owner) agrees to sign

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

GRANT PERIOD & PROJECT SCHEDULE

to the project which alter this schedule significantly shall be discussed with the LFUCG Grant listed in the Grant Award Agreement. Any time extensions must be approved in writing by the LFUCG Grant Manager. The project schedule shown in Table 1 is preliminary. Proposed changes Manager prior to implementation. The grant period starts on the date of execution by the Mayor and extends for the time period as

TABLE 1 - PROJECT SCHEDULE

Activity	Start Date	Completion Date
Notice to Proceed	March 2017	
Partial Topographic Survey	March 2017	April 2017
Preliminary Design	April 2017	August 2017
50% Design Review	June 2017	July 2017
Final Design & Bid Documents	July 2016	October 2017
Submittal of Plans to LFUCG	August 2017	November 2017
Advertise for Construction	November 2017	December 2017
Negotiation with contractor and Award Project	December 2017	January 2017
Construction of Improvements (After 4 th of July event)	July 2017	September 2017
Substantial Completion and Project Closeout	September 2017	October 2017

PROJECT BUDGET - GRANT ELIGIBLE EXPENSES

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

Construction Phase: 56,670.20 222,832.80

TOTAL PROJECT COSTS: \$278,541.00

and breakdown of grant to cost share is as follows: \$55,708.20 based on the Water Quality Fees Board Determination. requirements of 20% of Project costs. Organization has offered to provide a cost share amount above The minimum cost share required for this project shall be The total project cost estimate the minimum program

Estimated Cost Share
Est. Total Project Cost **Total Grant Share** \$ 55,708.20 \$278,541.00 \$222,832.80 not to exceed

Table 2 lists the Eligible Expenses for the design and construction phases of this project. Figures 2 and 3 are provided as informational purpose only. Only properly invoiced items shall be reimbursed with grant monies or counted toward the Organization's cost share.

reimbursed or counted toward the cost share with the following exception: 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

NONE

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, 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-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 (current website: http://www.bls.gov/oes/current/oes_ky.htm) Bureau of Labor Statistics, State Occupational Employment and Wage Estimates for Kentucky

TABLE 2 – ELIGIBLE EXPENSES

s 55,71		80.0%	20.0%							[-
S 55,708.20 LS sents S 222,832.80 LS		SHARE	SHARE							4
\$ 55,708.20 LS nents \$ 222,832.80 LS		GRANT	ORGANIZATION						12	- T-
\$ 55,708.20 LS nents \$ 222,832.80 LS	\$ 278,541.0	\$ 222,832.80	\$ 55,708.20	BUDGET:	AL PROJECT	TOTA				12
\$ 55,708.20 LS nents \$ 222,832.80 LS										I
\$ 55,708.20 LS	\$ 222,832.80	\$ 178,266.24	\$ 44,566.56	1.0	LS	\$ 222,832.80	Construction Components	Project Manager	Costs Costs	T
\$ 55,708.20 LS					5 00 No. 10			Costs	Construction Costs	27
Omit riice	\$ 55,708.2	\$ 44,566.56	\$ 11,141.64	1.0	LS		Contractor Design Components	Contractor	Design Fees	
Omrile			KALANTAN SA					esign Costs	Engineering Design Costs	12
Oill Files	March Strate	Grant	Organization	80 474 W 854 W	Physical Colors	CALL SELECTION OF THE CALL	PROPERTY SHEET SECURITY OF SAME		Expense	
	Total Expens	Funded by	Funded by	Quantity	ice	Unit Price	Item	Participants	Type of	

FIGURE 1 – PROJECT AREA FROM APPLICATION

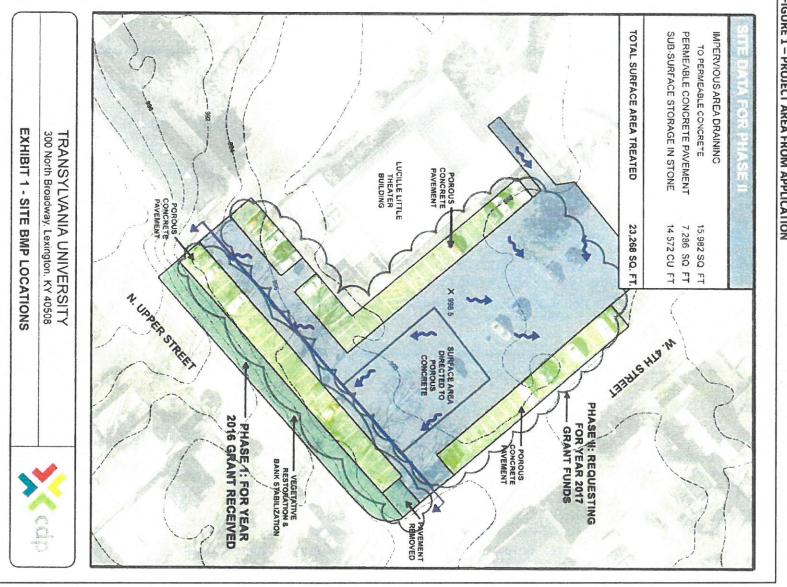


FIGURE 2 – DESIGN BUDGET FROM APPLICATION

\$11,334			-		-	Annual Property lies	SIGIOI
	CONTRACTOR OF THE PERSON NAMED IN COLUMN						20% of Design
							Work Items Required to be Paid By Owner
\$56,670	34	24	56	146	172	124	TOTALS
\$10,230	n Subtotal	dministration	Construction Administration Subtota				
\$2,820	1			8	16	2	Pay Applications & Shop Drawings
\$1,890	1			4	4	00	Progress Meetings w/ Transy, LFUCG, Contractor
\$5,520				12	12	24	Site Inspections
							Construction Administration
\$32,080			Design Subtotal				
\$1,290	4			4	4	2	Contract Negotiations / Project Award
\$1,940	2				∞	8	Pre-Bid / Bid-Opening Meetings
\$1,070	00				4	2	Contractor Selections & Plan Distribution
\$4,060	4			16	16	4	Specification Manual
\$2,280	2			8	80	4	Cost Estimates and Quantities
\$2,880	4			8	8	88	Review Meetings w/ LFUCG
\$2,360			4	6	12	2	Erosion Control Plan
\$3,430			12	16	8	2	Details and Notes
\$3,850			12	16	12	2	Site Grading Plan
\$4,090			24	12	12	2	Site Layout Plan
\$1,310			4	4	4	2	Site Demolition Plan
\$2,390				6	12	4	Drainage Design Calculation
\$1,130				2	4	4	Initial Site Visit/Scoping Meeting
							Design
\$3,250		ototal	Site Survey Subtotal				
\$3,250		24				2	Partial Topographic Survey
							Site Survey
\$11,110	otal	tration Subto	Grant Administration Subtotal				
\$2,040	4			4	4	8	Education Outreach
\$4,030	2			8	8	18	Coordination w/ Project Team Partners
\$5,040	2			12	16	16	Project Coordination w/ Transy & LFUCG
							Grant Administration
	CLERICAL	CREW	TECHNICIAN	ARCHITECT II	PROJECT ENGINEER II	PROJECT MANAGER	WORK ELEMENT
Cost			ours	Manhours			Site/Civil Related Services
7/29/2016						Te	TRANSYLVANIA UNIVERSITY Draft Design Estimate
	>						LFUCG Stormwater Incentive Grant Application

FIGURE 3 – CONSTRUCTION BUDGET FROM APPLICATION

TRANSYLVANIA UNIVERSITY Draft Construction Estimate LFUCG Stormwater Incentive Grant Application **EXHIBIT 3 - DRAFT PROJECT BUDGET** Sawcut pavement
Removal / Replacement of Drainage Structures
Asphalt removal
Pavement Trenching
Tree Removal
Excavation 6" Porous Concrete Pavement (w/ aggres
#2 Stone (2" sub-surface storage)
Formed Concrete (ribbon/header curb)
Asphalt Pavement (patch)
Level & Wedge
Asphalt Resurfacing
Pavement Striping QTY 135 730 935 675 415 1 115 Mobilization & Demobilization (5%) LS LS LS 5 5 5 7 5 5 7 7 CY LS LS LS LS LS LS LS 10% contingency UNIT COST \$7,500 \$2,500 \$1,500 \$1,500 \$375 \$25 \$30 \$45 \$2,500 \$110 \$2,500 \$10,000 \$5,000 \$4 \$5,000 \$10 \$40 \$2,000 \$25 Subtotal \$203,495 \$20,375 \$9,690 \$50.625 \$18.250 \$28,050 \$2,025 \$2,500 \$23,650 \$23,650 \$10,000 \$5,000 \$1,660 \$5,000 \$8,070 \$4,600 \$2,000 \$16,875 TOTAL \$7,500 \$2,500 \$1,500 \$1,500 7/29/2016

Note - Figure 3 is from the grant application packet and does not reflect the removal of budget item #9

Total Cost

\$223,871