

ATTACHMENT A
to the GRANT AWARD AGREEMENT
between Lexington-Fayette Urban County Government (LFUCG) and
Lexington & Fayette County Parking Authority

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

Grantee Organization and Property Owner **Lexington & Fayette County Parking Authority**
162 East Main Street, Suite 212
Lexington, KY 40507

KY Organization #: 0189909
Federal Employer ID #: 26-0270287

Project Site Location: 150 East Main Street
Lexington, KY 40507 (Helix Garage)
PVA # 04037580

Project Manager and Primary Project Contact: **Gary Means**
859-233-7275 (phone)
gmeans@lexpark.org (email)

Secondary Project Contact: Linden Smith
859-233-7275 (phone)
lsmith@lexpark.org

Design Engineering Firm(s): **CDP Engineers**
3250 Blazer Parkway
Lexington, KY 40509
859-264-7500 (phone)
Scott Southall, ASLA, AICP, LEED AP BD+C
(Project Manager/Landscape Architect of Record)
southall@cdpengineers.com (email)

Project Partners: US Green Building Council (USGBC) – Kentucky Chapter;
Kentucky Ready Mix Concrete Association (KRMCA)

PROJECT PLAN ELEMENTS

1) STORMWATER CONTROL FACILITIES:

The purpose of this project is to improve stormwater quality and reduce the quantity. Currently, oil, grease, transmission fluids, coolant, dirt, solids, and other pollutants; and these are picked up during rain events and channeled directly into the Town Branch watershed with no pretreatment or detention.

The goals of this project are to significantly improve the water quality and quantity controls in the parking structure as well as provide an educational opportunity for the many visitors to the garage, with the added benefit of beautifying the appearance of a high-traffic public area in downtown Lexington. In addition, Lexington & Fayette County Parking Authority is pursuing ParksMart certification (formerly Green Garages certification) for their parking structures, which is above and beyond state and local regulations and which will require water quality and water quantity controls in order to achieve the certification.

a) **Permeable Pavement:** for quality and quantity control. Removal and retrofit of approximately 5,034 square feet of impervious parking lot to permeable concrete pavement. This is for the western most employee parking lot.

b) **Oil-Water Separation:** primarily addresses water quality. Install a series of underground baffle boxes to serve as oil-water separators and reduce the pollutants entering the Town Branch watershed.

c) **Educational:** organization to host an installation field day to demonstrate the permeable pavement concrete. The entire project construction will be taped for broadcast on GTV3. Also, install permanent signage around the public areas of the garage. Lexington & Fayette County Parking Authority to coordinate site visits or other educational opportunities to any school or degree program or citizen group that would be interested in the study of the environmental impacts of the project.

All improvements shall be located on the property 150 East Main Street, Lexington, KY, owned by LFUCG Public Facilities Corp. No other property or Right of-Way shall be disturbed without the written permission from the property owners and/or LFUCG.

This project includes design and construction elements. 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.

BMP Locations:

Please refer to the attached Figure 1 – Lexington & Fayette County Parking Authority Site BMP Locations and Figure 2 – General Notes and Plan View of Precast Tanks.

2) **DESIGN DOCUMENTS:**

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

a. 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 engineering principles and practices for permeable pavements).

b. The permeable pavement system shall not be installed within 10 feet horizontally of any sanitary sewer line and measures shall be taken to prevent infiltrating water from entering the sanitary sewer trench.

c. 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 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 design documents for the permeable pavement shall include a description of:

i. Profile detail of the proposed surface (e.g. stone to paver) indicating all sizes of stone 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 Owner prior to unloading on site”*.

ii. Detail of the proposed underdrain system and plan view of its locations and how it will be connected into an existing storm sewer inlet or discharge into an existing gutter or other stormwater control structure. Water shall not be allowed to discharge onto a public sidewalk either directly via a pipe or from seepage coming from the stone base.

iii. Slope of the stone base and use of barriers, if necessary shall be utilized to prevent high velocities and scour within the stone base.

d. All existing utilities shall be located and shown on the design plans.

e. 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.

- f. 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), Dan Kiser – dkiser2@lexingtonky.gov Engineering (New Development), Hillard Newman - hnewman@lexingtonky.gov Sanitary Sewers, Rod Chervus – rchervus@lexingtonky.gov Stormwater, Greg Lubbeck – glubbeck@lexingtonky.gov

- g. 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 of construction is such that a permit may expire before construction can be completed, then the Organization shall coordinate with the LFUCG Grant Manager and permitting agencies on appropriate timing for permit submittals. The Organization is fully responsible to determine which approvals, permits, and encroachments are required for the project.
- h. 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:**

Lexington & Fayette County Parking Authority will publicly advertise and bid the job consistent with LFUCG Purchasing requirements. The most qualified and cost effective contractor will be selected for the job. Resident observation will be provided during construction activities from Lexington & Fayette County Parking Authority, CDP, and KRMCA staff.

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:

- a. Construction shall not begin until all permits, approvals, agreements, etc. are obtained and copies provided to the LFUCG Grant Manager. \
- b. All existing utilities shall be located, contacted, and coordinated with prior to any work being performed.
- c. 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.
- d. 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.
- e. The Organization shall host a pre-construction/construction meeting prior to starting construction. The LFUCG Grant Manager shall be invited 5 days in advance of this meeting.
- f. The Organization is responsible for providing all construction oversight, administration, and daily inspections. LFUCG shall not provide these services.

- g. The Organization shall document construction by taking photographs before, during, and after construction. Photographs shall be provided in digital format to the LFUCCG Grant Manager.
- h. Once construction is complete, a final walk-thru inspection shall be performed. The LFUCCG 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 LFUCCG Grant Manager shall be invited to this inspection and given 3 days notice.
- i. The Organization agrees to enter into the *Agreement to Maintain Stormwater Control Facilities Funded by an LFUCCG 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 LFUCCG at the Fayette County Clerk's office. It is anticipated the water quality treatment unit and permeable pavement facilities will be included in Attachment B.

REPORTING REQUIREMENTS

- 1) Prior to Construction, the Organization shall provide the LFUCCG 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.
 - 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 LFUCCG'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 LFUCCG twenty-one (21) calendar days to review the submittals and provide comments. If revised submittals are required, the Organization shall allow LFUCCG ten (10) calendar days for review per submittal. LFUCCG may choose to have a third party engineering consultant assist LFUCCG 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 LFUCCG 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 LFUCCG 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 LFUCCG 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 LFUCCG 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 are not eligible for Grant reimbursement. Therefore, the Organization is advised that it should coordinate closely with the LFUCCG 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.
 - 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.
 - Signed Agreement to *Maintain Stormwater Facilities Funded by an LFUCG Stormwater Quality Projects Class B Incentive Grant* (Note: There will be collaboration between the organization and LFUCG to complete this form after construction is complete and final costs are determined).

- 8) LFUCG shall make final reimbursement payment (10% retainage) after acceptance of the Project Final Report.

EDUCATIONAL OPPORTUNITIES

Permanent educational signs will be installed around the public areas of the garage to explain the purpose and function of the BMPs relative to the Town Branch water quality. The Town Branch Commons is coming to fruition and Lexington & Fayette County Parking Authority hopes to complete this project as a show of good stewardship of the watershed since they are directly adjacent to the Commons location. An installation field day will be hosted to demonstrate the installation of permeable concrete, and the entire project construction will be taped for broadcast on GTV3. Gary Means, Executive Director of Lexington & Fayette County Parking Authority, is available for hosting tours and site visits throughout the construction of the project and afterwards.

Lexington & Fayette County Parking Authority will coordinate site visits or other educational opportunities to any school or degree program or citizen group that would be interested in the study of the environmental impacts of the project.

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 GRANT STIPULATIONS

1. The Operation and Maintenance Plan must include prohibitions against storage of certain materials on the permeable pavement.

2. It is recommended that inspection and appropriate maintenance of BMPs shall be completed before and after annual cleaning and shall be part of the Operations and Maintenance Plan.
3. The permeable pavement system shall not be installed within 10 feet horizontally of any sanitary sewer line and measures shall be taken to prevent infiltrating water from entering the sanitary sewer trench.

GRANT PERIOD & PROJECT SCHEDULE

The grant period starts on the date of execution of the Grant Award Agreement by the Mayor and extends for the time period as listed in the Grant Award Agreement. Any time extensions must be approved in writing by the LFUCG Incentive 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	Anticipated Date(s)
Award & Notice to Proceed	December 2016 – March 2017
Design Phase	April 2017 – October 2017
Construction Phase	November 2017 – March 2018
Project Closeout	April 2018 – May 2018

Proposed changes to the project which alter this schedule significantly shall be discussed with the LFUCG Grant Manager prior to implementation.

The Table above 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.

An itemized breakdown of costs is shown in attached Exhibits 4 & 5 – Draft Construction Budget and Draft Design Budget.

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:

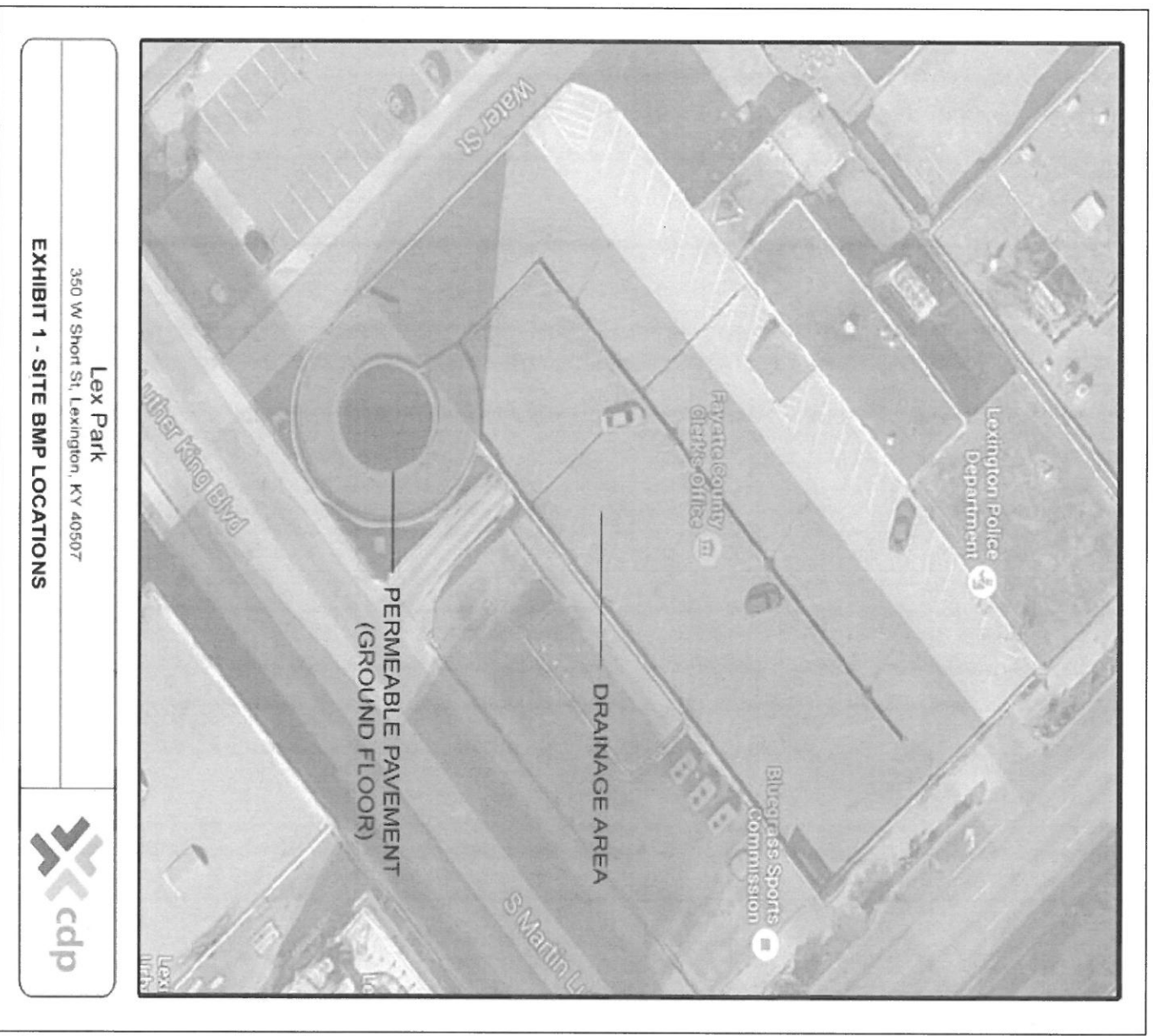
- NONE

Construction cost items given in below Table and Figure 4 & 5 are preliminary and the construction estimate shall be revised and submitted to LFUCG Grant Manager for review prior to construction 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 proposed facilities 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 – shall be from the U.S. Department of Labor, Bureau of Labor Statistics, State Occupational Employment and Wage Estimates for Kentucky (current website: http://www.bls.gov/oes/current/oes_ky.htm).

TABLE 2 – ELIGIBLE EXPENSES

Activities	Unit Price	Quantity	Funded by Organization	Funded by Grant	Total Expense	Total by Activity
1 Design						
2 Grant Administration						
3 Project Coordination w/LexPark & LFUCG	\$ 5,040.00	LS 1			\$ 5,040.00	
4 Coordination w/Project Team Partners	\$ 4,620.00	LS 1			\$ 4,620.00	
5 Education Outreach	\$ 2,460.00	LS 1			\$ 2,460.00	
6	Total Grant Administration Expenses -->		\$ 2,424.00	\$ 9,696.00		\$12,120.00
7 Site Survey						
8 Partial Topographic Survey	\$ 5,170.00	LS 1.0			\$ 5,170.00	
9	Total Site Survey Expenses -->		\$ 1,034.00	\$ 4,136.00		\$5,170.00
10 Design						
11 Initial Site/Scoping Meeting	\$ 1,130.00	LS 1			\$ 1,130.00	
12 Drainage Design Calculations	\$ 3,520.00	LS 1			\$ 3,520.00	
13 Site Demolition Plan	\$ 3,260.00	LS 1			\$ 3,260.00	
14 Site Layout Plan	\$ 4,320.00	LS 1			\$ 4,320.00	
15 Site Grading Plan	\$ 2,840.00	LS 1			\$ 2,840.00	
16 Details and Notes	\$ 2,590.00	LS 1			\$ 2,590.00	
17 Erosion Control Plan	\$ 2,580.00	LS 1			\$ 2,580.00	
18 Review Meetings w/LFUCG	\$ 4,320.00	LS 1			\$ 4,320.00	
19 Cost Estimates and Quantities	\$ 2,280.00	LS 1			\$ 2,280.00	
20 Specifications Manual	\$ 4,560.00	LS 1			\$ 4,560.00	
21 Contractor Selection & Plan Distribution	\$ 970.00	LS 1			\$ 970.00	
22 Pre-Bid / Bid-Opening Meetings	\$ 1,940.00	LS 1			\$ 1,940.00	
23 Contract Negotiations / Project Award	\$ 1,290.00	LS 1			\$ 1,290.00	
24	Total Design Expenses -->		\$ 7,120.00	\$ 28,480.00		\$35,600.00
25 Construction Administration						
26 Site Inspections	\$ 4,940.00	LS 1			\$ 4,940.00	
27 Progress Meetings w/LexPark, LFUCG, Contractor	\$ 2,310.00	LS 1			\$ 2,310.00	
28 Pay Applications & Shop Drawings	\$ 2,820.00	LS 1			\$ 2,820.00	
29 Expense (Printing, Travel, etc.)	\$ 532.00	LS 1			\$ 532.00	
30	Total Design Expenses -->		\$ 2,120.40	\$ 8,481.60		\$10,602.00
31 Construction Estimate						
32 General Conditions	\$ 7,000.00	LS 1			\$ 7,000.00	
33 Erosion & Sediment Control Measures	\$ 3,000.00	LS 1			\$ 3,000.00	
34 Construction Staking	\$ 1,000.00	LS 1			\$ 1,000.00	
35 Education Signage	\$ 2,500.00	LS 1			\$ 2,500.00	
36 Demolition						
37 Sawcut Pavement	\$ 4.00	LF 250			\$ 1,000.00	
38 Retrouting / Placement of Drainage Structures	\$ 25,000.00	LS 1			\$ 25,000.00	
39 Asphalt Removal	\$ 12.00	SY 425			\$ 5,100.00	
40 Pavement Trenching	\$ 40.00	LF 600			\$ 24,000.00	
41 Gravel Removal	\$ 8.00	SY 115			\$ 920.00	
42 Excavation	\$ 25.00	CY 525			\$ 13,125.00	
43 Improvements						
44 6" Porous Concrete Pavement (w/aggregate base)	\$ 376.00	CY 100			\$ 37,600.00	
45 #2 Stone (2' sub-surface storage)	\$ 25.00	TN 900			\$ 22,500.00	
46 Formed Concrete (ribbon/header curb)	\$ 30.00	LF 400			\$ 12,000.00	
47 Asphalt Pavement (patch)	\$ 50.00	SY 45			\$ 2,250.00	
48 Level & Wedge	\$ 2,750.00	LS 1			\$ 2,750.00	
49 Baffle Boxes & Appurtenances	\$ 30,000.00	LS 1			\$ 30,000.00	
50 Pavement Striping	\$ 2,500.00	LS 1			\$ 2,500.00	
51 Drainage	\$ 7,500.00	LS 1			\$ 7,500.00	
52 Sidewalk/Driveway Restoration	\$ 5,000.00	LS 1			\$ 5,000.00	
53 Mobilization & Demobilization (5%)	\$ 10,237.00	LS 1			\$ 10,237.00	
54 10% Contingency	\$ 21,526.00	LS 1			\$ 21,526.00	
55	Construction Expenses -->		\$ 47,301.60	\$ 189,206.40		\$ 236,508.00
56	TOTAL PROJECT BUDGET:		\$ 60,000.00	\$ 240,000.00		\$ 300,000.00
57			ORGANIZATIO	GRANT SHARE		
58			20.0%	80.0%		

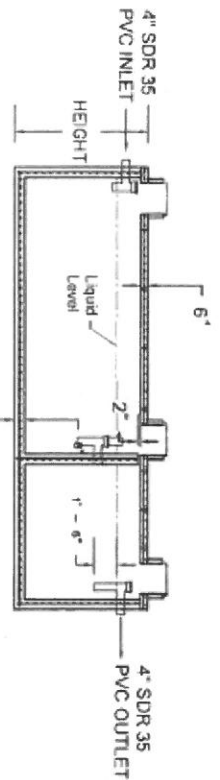
FIGURE 1 – LEXINGTON & FAYETTE COUNTY PARKING AUTHORITY SITE BMP LOCATIONS (FROM APPLICATION)



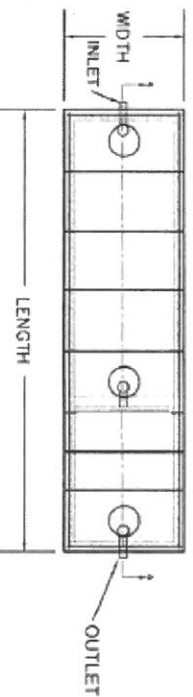
**FIGURE 2 – LEXINGTON & FAYETTE COUNTY PARKING AUTHORITY SITE BMP
DETAILS (FROM APPLICATION)**

GENERAL NOTES:

- 1) TANK BEDDING SHALL BE #57 GRAVEL COMPACTED TO 8" THICK.
- 2) TANK LIDS SHALL BE PRECAST CONCRETE
- 3) ALL CONCRETE SHALL CONTAIN #4 REBAR ON 6" CENTERS IN BOTH DIRECTIONS
- 4) ALL LIDS SHALL BE SEALED AND WATERTIGHT.
- 5) ALL INFLOW AND OUTFLOW PIPES SHALL BE 4" SDR 35 PVC.



SECTION A-A'



PLAN VIEW OF PRECAST TANKS

P-2820

<p>EXHIBIT 2 Lex Park LEXINGTON, KENTUCKY</p>	 <p>3250 Newer Perry Lexington Ky 40509 T 606.264.1300 F 606.264.1301</p>
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FIGURE 3 – DRAFT PROJECT SCHEDULE (FROM APPLICATION)

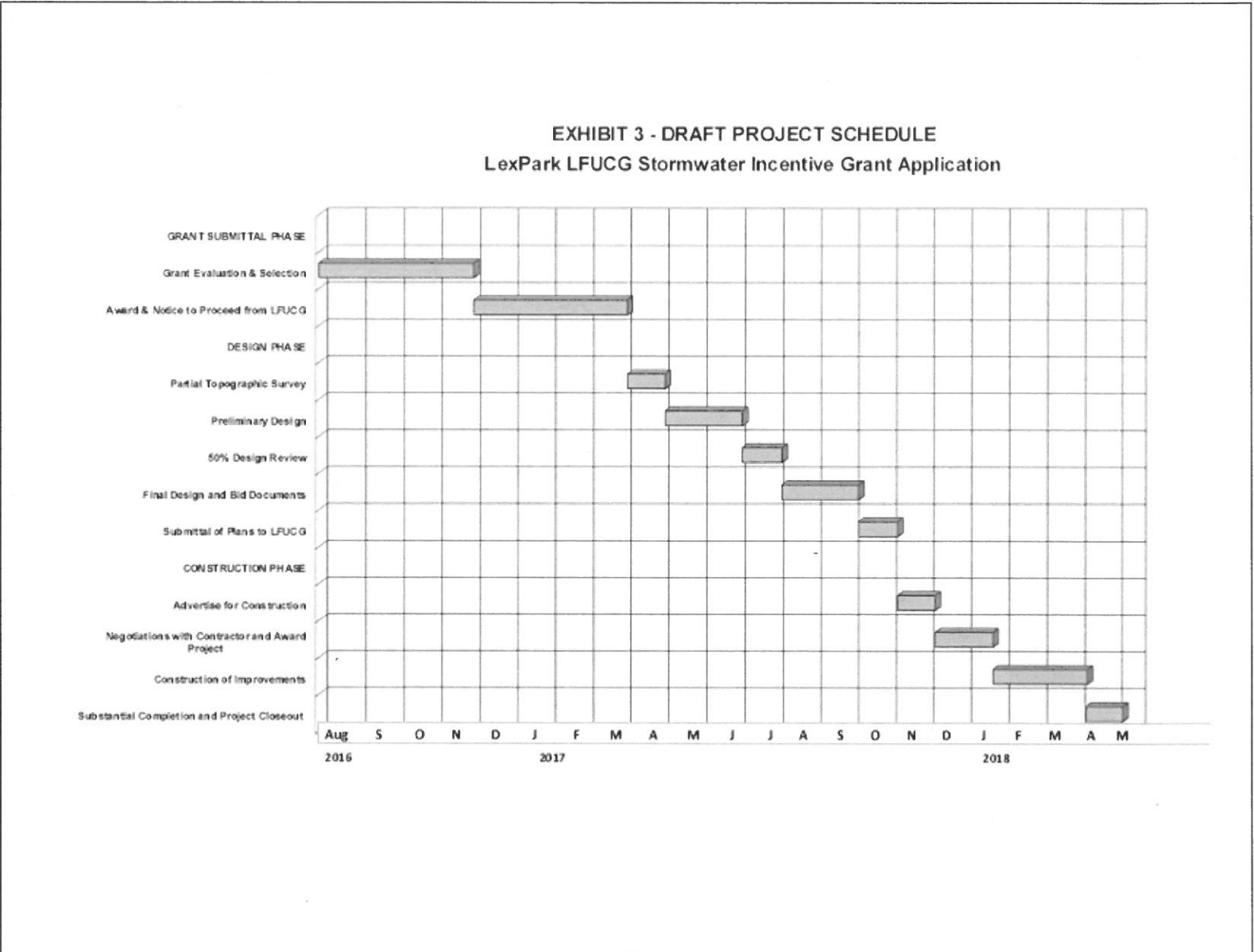



FIGURE 4 – DRAFT PROJECT BUDGET (FROM APPLICATION)

EXHIBIT 4 - DRAFT PROJECT BUDGET							 7/29/2016	
LFUGG Stormwater Incentive Grant Application								
LEXPARK Draft Construction Estimate								
ITEM #	ITEM	QTY	UNIT	UNIT COST	TOTAL			
1	General Conditions	1	LS	\$7,000	\$7,000			
2	Erosion & Sediment Control Measures	1	LS	\$3,000	\$3,000			
3	Construction Staking	1	LS	\$1,000	\$1,000			
4	Educational Signage	1	LS	\$2,500	\$2,500			
Demolition								
5	Sawcut Pavement	250	LF	\$4	\$1,000			
6	Rerouting / Replacement of Drainage Structures	1	LS	\$25,000	\$25,000			
7	Asphalt Removal	425	SY	\$12	\$5,100			
8	Pavement Trenching	600	LF	\$40	\$24,000			
9	Gravel Removal	115	SY	\$8	\$920			
10	Excavation	525	CY	\$25	\$13,125			
Improvements								
11	6" Porous Concrete Pavement (w/ aggregate base)	100	CY	\$376	\$37,600			
12	#2 Stone (2' sub-surface storage)	900	TN	\$25	\$22,500			
13	Formed Concrete (ribbon/header curb)	400	LF	\$30	\$12,000			
14	Asphalt Pavement (patch)	50	SY	\$45	\$2,250			
15	Level & Wedge	1	LS	\$2,750	\$2,750			
16	Baffle Boxes & Appurtenances	1	LS	\$30,000	\$30,000			
17	Pavement Striping	1	LS	\$2,500	\$2,500			
18	Drainage	1	LS	\$7,500	\$7,500			
19	Sidewalk/Driveway Restoration	1	LS	\$5,000	\$5,000			
Mobilization & Demobilization							\$10,237	
					Subtotal	\$214,982		
					10% contingency	\$21,526		
					Total Cost	\$236,508		

FIGURE 5 – DRAFT DESIGN BUDGET (FROM APPLICATION)

EXHIBIT 5 - DRAFT DESIGN BUDGET									
LFUCG Stormwater Incentive Grant Application									
LEXPARK Draft Design Estimate									
7/29/2016									
									
Site/Civil Related Services	Manhours					Cost			
WORK ELEMENT	PROJECT MANAGER	PROJECT ENGINEER II	PROJECT LANDSCAPE ARCHITECT II	CADD TECHNICIAN	SURVEY CREW	CLERICAL			
Grant Administration									
Project Coordination w/ LexPark & LFUCG	16	16	12			2	\$5,040		
Coordination w/ Project Team Partners	16	12	12			2	\$4,620		
Education Outreach	8	8	4			4	\$2,460		
							Grant Administration Subtotal		
							\$12,120		
Site Survey									
Partial Topographic Survey	2	2	2			36	\$5,170		
							Site Survey Subtotal		
							\$5,170		
Design									
Initial Site Visit/Scoping Meeting	4	4	2				\$1,130		
Drainage Design Calculation	8	16	8				\$3,520		
Site Demolition Plan	4	12	8		12		\$3,260		
Site Layout Plan	4	12	16		16		\$4,320		
Site Grading Plan	4	8	8		12		\$2,840		
Details and Notes	2	8	8		12		\$2,590		
Erosion Control Plan	2	12	6		8		\$2,580		
Review Meetings w/ LFUCG	12	12	12			6	\$4,320		
Cost Estimates and Quantities	4	8	8			2	\$2,280		
Specification Manual	8	16	16			4	\$4,560		
Contractor Selections & Plan Distribution	2	4				6	\$970		
Pre-Bid / Bid-Opening Meetings	8	8				2	\$1,940		
Contract Negotiations / Project Award	2	4	4			4	\$1,290		
							Design Subtotal		
							\$35,600		
Construction Administration									
Site Inspections	16	16	12				\$4,940		
Progress Meetings w/ LexPark, LFUCG, Cont	8	8	4			1	\$2,310		
Pay Applications & Shop Drawings	2	16	8			1	\$2,820		
Expenses (Printing, Travel, etc.)							\$532		
							Construction Administration Subtot		
							\$10,602		
							TOTALS		
	132	202	150	60	36	34	\$63,492		
Work Items Required to be Paid By Owner									
20% of Design									
							\$12,698		
							TOTALS		
							\$12,698		
	Rate	\$125	\$105	\$105	\$55	\$125	\$50		