

ATTACHMENT A
to the GRANT AWARD AGREEMENT
between Lexington-Fayette Urban County Government (LFUCG) and
Kentucky Training Center, LLC, a.k.a. The Thoroughbred Center

- GRANT PROGRAM:** FY2016 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
 - Construction Only Grant

PROJECT TEAM AND CONTACT INFORMATION

Grantee Organization: **Kentucky Training Center, LLC** *J.P.*
And Property Owner a.k.a., The Thoroughbred Center
3380 Paris Pike
Lexington, KY 40511
KY Organization #: 0488436

Project Site Location: 3380 Paris Pike
Lexington, KY 40511
PVA #20005180
and

400 Johnston Road
Lexington, KY 40516
PVA #25059000

Primary Project Contact **Jim Pendergest – General Manager, Thoroughbred Center**
859-293-1853
jpendergest@TheThoroughbredCenter.com

Secondary Project Contact: **Gatewood Gay – Creech Services, Inc.**
859-948-5254
jgg2nd@msn.com

Design Consulting Firm **Stantec Consulting Services**
1409 N. Forbes Road
Lexington, KY 40511
859-433-3000 (phone)
Bret Lavey, PE – Design Manager
bret.lavey@stantec.com
(Project Management, Engineering)

Project Manager **Ridgewater, LLC**
908 Woodglen Court
Lexington, KY 40515
Eric Dawalt, PE – Project Manger
Edawalttrw@gmail.com

Project Partners: Creech Inc., Stantec, EcoGro, and Ridgewater, LLC

PROJECT PLAN ELEMENTS

1) STORMWATER CONTROL FACILITIES:

All improvements shall be located on the properties of 3380 Paris Pike and 400 Johnston Road, listed above, owned by Kentucky Training Center, LLC. No other property or Right-of-Way shall be disturbed without the written permission from the property owners and/or LFUCG.

The project elements include 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) Bio-Retention System: for water quality and quantity control. Construction of modular bio-retention cells with a total footprint of 25,000 square feet (0.6 acre). The four cells will detain and filter the water quality volume for approximately 10.6 acres. Preliminary locations for the 4 facilities are shown in Figure 2. Bio-Retention Conceptual Plan.
- b) Permeable Pavement: design of water quality and quantity control. Removal and retrofitting of 20,000 square feet of permeable pavement with underdrain system (Figure 3) Parking Lot Conceptual Plan. Driving deterrents (speed humps or rumble strip areas) will be constructed along the porous pavement to discourage heavy traffic volumes over the retrofitted surface.
- c) Educational Signage: design and installation of an Education/Interpretive sign panel.

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, 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 Lubeck – glubeck@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:**

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 constructions of the Stormwater Control Facilities are 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 at the Fayette County Clerk's office. It is anticipated the bio retention system and permeable pavement will be included in Attachment B.

REPORTING REQUIREMENTS

- 1) 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.
 - 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.
- 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: this form will be filled in and provided by LFUCG after construction is completed and final costs determined.).

8) LFUCG shall make final payment of the 10% retainer after acceptance of the Project Final Report.

EDUCATIONAL OPPORTUNITIES

- 1) Per the application, this project will grant opportunities to educate and promote BMPs through daily tours, which may include but not be limited to members of the general public, students, employees, and the equine industry.
- 2) **Design and installation of an Education/Interpretive sign panel.** The sign to be reviewed by the LFUCG Grant Manager prior to ordering.

ADDITIONAL GRANT STIPULATIONS

Note the following additional stipulations related to this project:

NONE

EQUIPMENT

Any equipment purchased with the Grant shall remain the property of the Organization.

PERMANENT CAPITAL 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.

GRANT PERIOD & PROJECT SCHEDULE

The grant period starts on the date of execution 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 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.

FIGURE 1 – PROJECT AREA

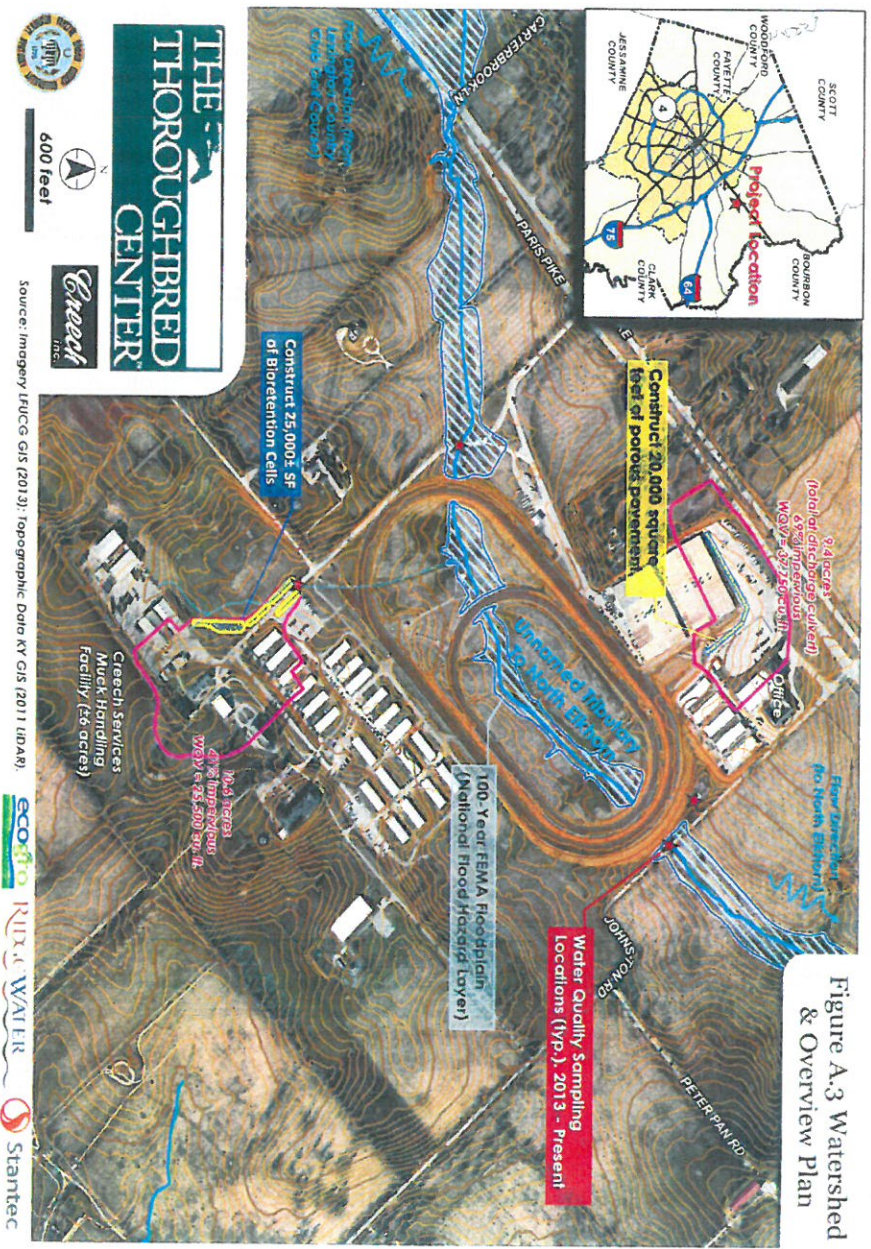


Figure A.3 Watershed & Overview Plan

FIGURE 2 – PROJECT AREA

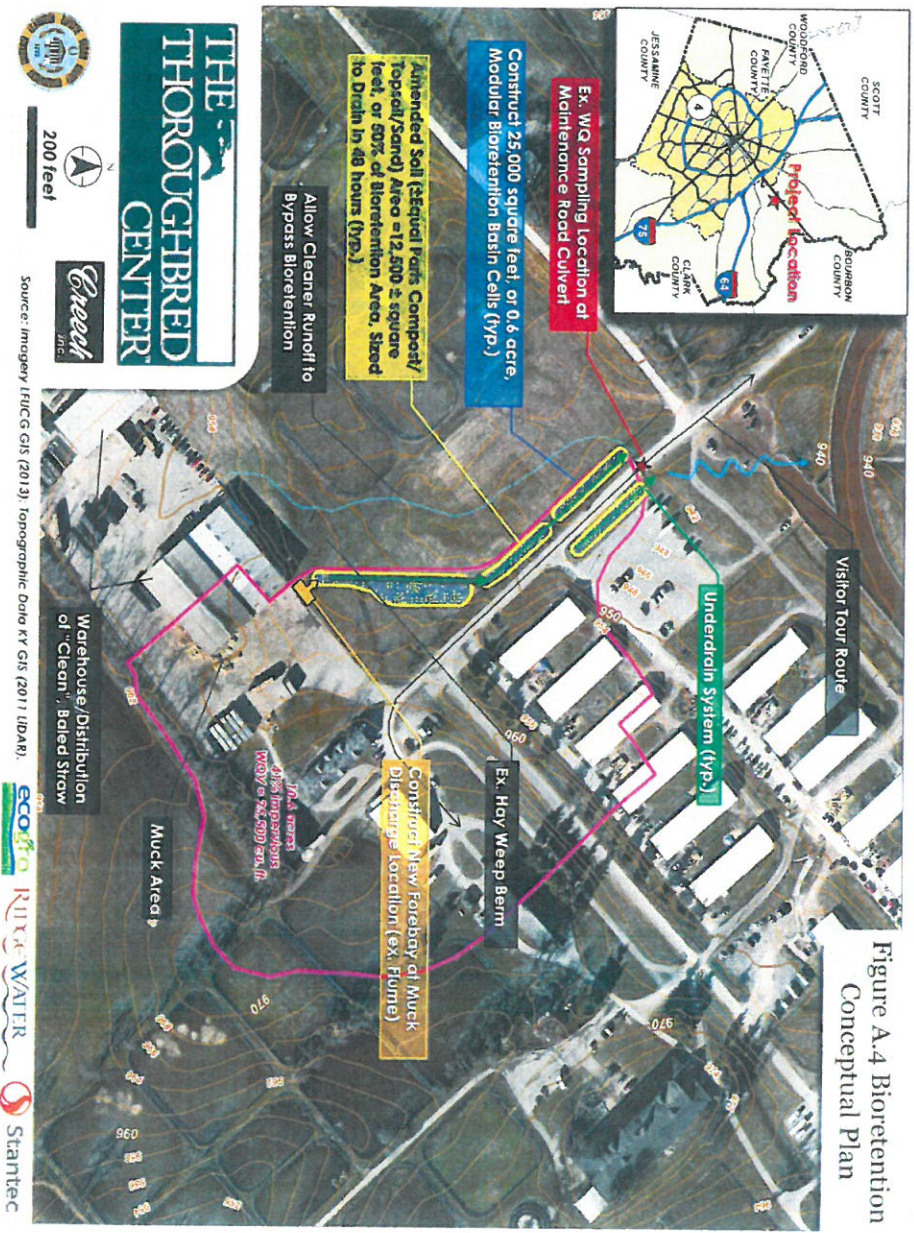


Figure A.4 Biorientation Conceptual Plan

FIGURE 3 – PROJECT AREA

