

AMENDMENT No. 1
AGREEMENT FOR ENGINEERING SERVICES
BETWEEN
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
AND
GRW ENGINEERS, INC.

This AMENDMENT is made and entered into this _____ day of _____ in the year 2011, by and between the Lexington Fayette Urban County Government (hereinafter called the "OWNER") and GRW Engineers, Inc. (hereinafter called the "ENGINEER").

WITNESSETH: THAT WHEREAS, the OWNER intends to provide design and construction services for the Expansion Area 2A Pump Station, Force Main, and Interceptor Sewers; and

WHEREAS, the ENGINEER is an independent consulting engineering firm and has on its staff, or available to it, the engineers, architects, etc., whose services would be required in the design, construction administration and project site representation of the PROJECT; and

WHEREAS, the OWNER and ENGINEER have entered into an Engineering Agreement for services on the PROJECT, dated February 12, 2009.

NOW, THEREFORE, the ENGINEER and OWNER, in consideration of the mutual covenants hereinafter set forth, agree to amend the Engineering Agreement as follows:

Section 2, Extra Work to be performed by Consultant

Add the following:

- 2.3 Prepare an Environmental Information Document in accordance with the Kentucky Infrastructure Authority requirements. Review and summarize the project area for endangered species, environmental justice, and cultural resources. Provide summary report for submittal to the Kentucky Infrastructure Authority. Should significant findings result, additional work effort and cost may occur, which are outside the scope of services of this amendment.
- 2.4 Provide additional engineering services for the preparation of a technical memorandum and upgrading improvements of the Hamburg Farms Pump Station (Target) and Force Main. The upgraded improvements shall bring the Hamburg Farms Pump Station into accordance with the LFUCG Sanitary Sewer and Pump Station Manual requirements. In addition, all design improvements will be in accordance with "Recommended Standards for Wastewater Facilities", as published by the Great Lakes-Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers.

The project is required so the existing pump station may remain in service and

discharge to the Expansion Area 2A interceptor sewer system in lieu of the old North Elkhorn force main. Initially, the original Contract scope of services provided for removal from service of the Hamburg Farms Pump Station by constructing a gravity sewer to the new Expansion Area 2A collector sewer system, however, the construction of a I-75 gravity sewer crossing was excessive in cost. Therefore, the pump station and force main are to be upgraded to remain in service. The following work is required for the pump station:

- A. Repair of manhole/wetwell pipe penetrations to reduce/eliminate I/I.
- B. Evaluate manhole, concrete wetwell, and valve vault structures to determine if rehabilitation or lining are required.
- C. Install influent piping isolation valves to each individual wetwell for the Class C pump station.
- D. Replace the existing pump control panel.
- E. Replace discharge piping, check valves and isolation valves in the valve vault.
- F. Install emergency piping connection for bypass pumping.
- G. Install emergency electrical disconnect for a portable generator connection.
- H. Replace pumping equipment. Maximize pumping rate for 30 HP installation.
- I. An ITT surge suppressor has been installed. Field check to ensure proper application and installation. Evaluate if reinstallation or replacement of the surge suppressor is required.
- J. Evaluate and redesign the force main for the pump station. Reutilize existing 8" force main to the I-75 crossing for the abandoned (future) Blackford Pump Station force main. If hydraulics allow, reutilize a partial amount of the 14" Blackford force main. Provide connection between the abandoned Blackford force main and the new Expansion Area 2A.
- K. Provide alternate design for installation of a power generator for back-up power.

Section 5, Payments to Consultant:

Add the following:

- 5.4 Owner shall pay Consultant a lump sum fee not exceeding \$37,350 for work associated with Amendment No. 1.

IN WITNESS WHEREOF, the parties hereto have made and executed this Amendment the date noted hereinbefore.

OWNER:

**LEXINGTON FAYETTE URBAN
COUNTY GOVERNMENT**

By: _____

Title: _____

Attest: _____

ENGINEER:

GRW ENGINEERS, INC.

By: Joseph R. Hargis

Title: Vice President

Attest: Luth Evans

Additional Engineering Scope of Services Fee
Expansion Area 2A Pump Station and Force Main
Lexington Fayette Urban County Government

Item 1

Preparation of Environmental Information document

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|----|---|-----------|
| 1. | Endangered species and environmental justice review and summary | \$ 9,850. |
| 2. | Cultural resource review and summary – Professional Archeologist | \$ 5,000. |
| 3. | Preparation of summary report in accordance with KIA EID Guidance | \$ 5,000. |

Item 2

Upgrade of the Hamburg Farms Pump Station and Force Main (Target)

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|----|--|------------------|
| 1. | Prepare technical design memorandum for improvements | \$ 2,500. |
| 2. | Redesign for new pumping conditions | \$ 1,500. |
| 3. | Prepare one (1) each site drawing for retrofit of improvements | \$ 2,500. |
| 4. | Prepare two (2) each electrical and instrumentation drawings | \$ 4,000. |
| 5. | Resurvey and redesign force main for new pumping conditions | \$ 1,500. |
| 6. | Prepare alternate power source generator design | \$ 3,500. |
| 7. | Update contract documents and specifications for amended work | <u>\$ 2,000.</u> |

Total Additional Scope of Services	\$37,350.
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