

**EXHIBIT D**

**Further Description of Basic**

**Engineering Services**

**and**

**Related Matters**



**Strand Associates, Inc.®**

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April 19, 2016

Ms. Tiffany Rank, P.E.  
Lexington-Fayette Urban County Government  
301 Lisle Industrial Avenue  
Lexington, KY 40511

Re: Town Branch Digester Complex Renovation

Dear Ms. Rank:

This letter is a follow-up to our April 6, 2016 meeting regarding engineering scope of services and fee for the Town Branch Digester Complex Renovation project. The following summarizes our discussions.

Strand's proposed scope and fee included evaluation of the following three alternative digestion processes to determine the best alternative for Town Branch WWTP.

- Traditional mesophilic digestion.
- Temperature phased digestion using thermophilic/mesophilic digestion.
- Acid/gas phased digestion.

Based on our discussion, LFUCG prefers to eliminate this scope item and continue to utilize traditional mesophilic digestion, allowing this evaluation to be removed from the scope. This has a corresponding fee reduction of \$15,000 applied to Task 2 of Section 2 in the Fee Schedule. The revised amount for Task 2 of Section 2 is \$20,000.

Strand's proposed scope and fee include an "iron sponge" digester gas cleaning system in the base project.

Strand's proposed scope and fee include an energy recovery system that would be included in the base project HVAC system. This system would recover energy from air exhausted from the Digester Complex for use in tempering outside make-up air. The engineering costs associated with this system are \$1,500.

Provision for future addition of grease waste stream to the digesters is included. Additional new facilities for grease feed to the digesters or accept other hauled waste are not included in Strand's proposed scope and fee.

Strand's hourly rate for RPR services is \$92.61 per hour. We anticipate an 18-month construction period. Only one digester can be taken out of service at a time for renovation. We anticipate approximately 3 to 4 months to renovate each digester. Other construction activities can be scheduled around the digester renovations. The need for RPR will vary throughout the project depending on the actual construction schedule. Many of the equipment items have a relatively long lead time before shipment to the site. We anticipate that during early phases of construction, little construction work will be completed at the site,

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resulting in fewer hours required for the RPR during this time. As equipment is delivered to the site and major renovation activities take place, the need for RPR services will increase.  
The following construction schedule was used to estimate the number of RPR hours required.

Months 1-2	Limited construction activity—20 hours RPR per month.
Months 3-6	Increased activity as early equipment deliveries and construction begin—40 hours RPR per month.
Months 7-17	Major renovation to three digesters and other major equipment items—50 hours RPR per month.
Month 18	Completing punchlist items and project close-out—50 hours RPR per month.

We suggest including 800 hours of RPR for the base project. This would add \$74,088 to Section 2 of the Fee Schedule, making the revised amount \$395,522 for Section 2. The actual use of these RPR hours can be adjusted after the actual construction schedule is determined.

We understand that LFUCG plans to incorporate Tasks 1, 2, and 3 from Section 3. LFUCG may, at its option in the future, proceed with Tasks 4 through 6. The total for selected tasks in Section 3 is \$79,000.

Please let me know if you have any questions or need additional information.

Sincerely,

STRAND ASSOCIATES, INC.®



Michael L. Davis, P.E.  
Senior Associate



**Strand Associates, Inc.®**

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May 11, 2016

Ms. Tiffany Rank, P.E.  
Lexington-Fayette Urban County Government  
301 Lisle Industrial Avenue  
Lexington, KY 40511

Re: Town Branch Digester Complex Renovation  
Remedial Measures Project Schedule

Dear Ms. Rank:

Strand Associates, Inc.®'s proposal for the Town Branch Digester Complex Renovation project included a schedule with milestone project delivery dates and construction completion prior to the December 2018 completion deadline. This schedule reflected a February 2016 start date.

The enclosed schedule is updated to reflect the following.

- June 2016 start date.
- Deletion of 2-month Kentucky Division of Water review/approval.
- Construction completion prior to December 2018 completion deadline.
- Maintain 18-month construction period.

Please let me know if you have any questions or comments.

Sincerely,

STRAND ASSOCIATES, INC.®

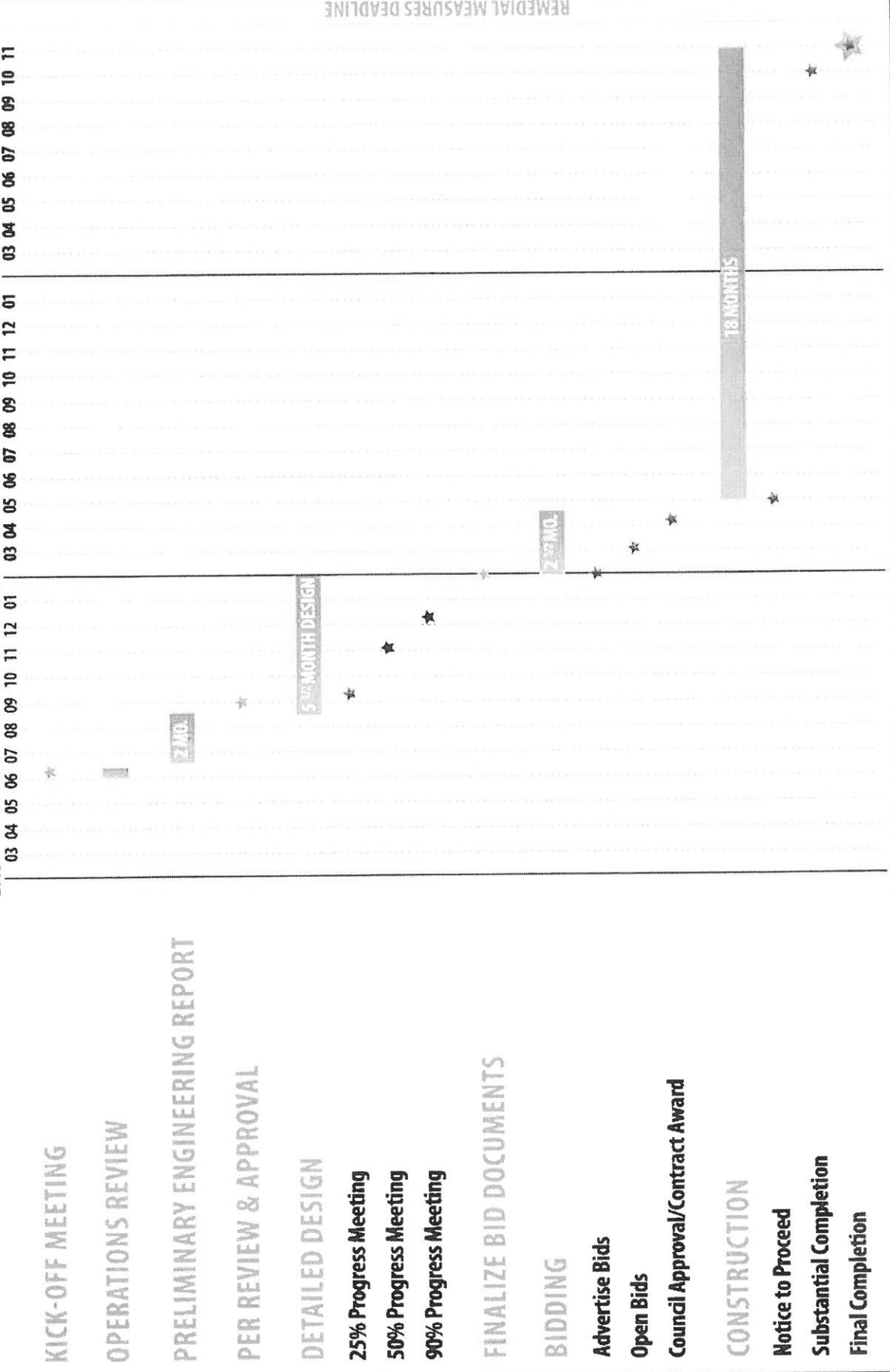
A handwritten signature in cursive script that reads 'Michael L. Davis'.

Michael L. Davis, P.E.  
Senior Associate

Enclosure

**TASKS**

**FEB 2016**      **FEB 2017**      **FEB 2018**      **DEC 2018**



REMEDIAL MEASURES DEADLINE