

EXHIBIT B

Certificate of Insurance

and

Evidence of Insurability

EXHIBIT C

Proposal of Engineering Services

and

Related Matters

EXHIBIT D

Further Description of Basic Engineering Services

and

Related Services

EXHIBIT B

Certificate of Insurance

and

Evidence of Insurability



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/30/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Ansay & Associates, LLC. MSN 702 N High Point Road Suite 201 Madison, WI 53717	CONTACT NAME: PHONE (A/C, No, Ext): (800) 643-6133 E-MAIL ADDRESS:	FAX (A/C, No): (608) 831-4777
	INSURER(S) AFFORDING COVERAGE	
INSURED Strand Associates, Inc., & PEH Engineers Shawn Cannon 910 W. Wingra Drive Madison, WI 53715	INSURER A : CNA Insurance Companies	
	INSURER B : Travelers Insurance Co	
	INSURER C :	
	INSURER D :	
	INSURER E :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD. WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> XCU Cov. incl. <input checked="" type="checkbox"/> completed ops. GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	X	5099170076	01/01/2014	01/01/2015	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS		5099170062	01/01/2014	01/01/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	X	5099170059	01/01/2014	01/01/2015	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	PEUB6C60113A13	01/01/2014	01/01/2014	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Prof & Pollution Lia		AEH113974097	07/11/2014	07/11/2015	Full Prior Acts \$ 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
PROJECT: Town Branch Wastewater Treatment Plant Headworks Improvement Project
 The Lexington Fayette Urban County Government, its elected and appointed officials, employees, agents, boards, consultants, assigns, volunteers and successors in interest are named as Additional Insureds as required by written contract.

CERTIFICATE HOLDER

CANCELLATION

Lexington Fayette Urban County Government
 200 E. Main Street
 Lexington, KY 40507

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Richard A. Hagan

EXHIBIT C

Proposal of Engineering Services

and

Related Matters

Professional

Engineering

Services

Investigation/
Design Services
for Town Branch
WWTP
Headworks
Improvements

RFP#55-2014

Proposal for

Lexington-Fayette Urban
County Government

October 21, 2014



Firm Submitting Proposal: Strand Associates, Inc.

Complete Address: 1525 Bull Lea Road, Suite 100, Lexington, KY 40511
Street City Zip

Contact Name: Michael Davis Title: Senior Associate

Telephone Number: (859)225-8500 Fax Number: (859)225-8501

Email address: mike.davis@strand.com



Lexington-Fayette Urban County Government
DEPARTMENT OF FINANCE & ADMINISTRATION

Jim Gray
Mayor

William O'Mara
Commissioner

ADDENDUM #1

RFP Number: 55-2014

Date: October 6, 2014

Subject: Investigative/Design Services for Town Branch WWTP Headworks
Improvements

Please address inquiries to:
Sondra Stone, Buyer
859-258-3324

TO ALL PROSPECTIVE BIDDERS

Please be advised of the following clarifications to the above referenced bid.

The pre RFP meeting has been moved to 301 Lisc Industrial Ave, Lexington, KY. Date and time remain the same, October 7, 2014, 12:00 pm.

Todd Slain, Director
Division of Central Purchasing

All other terms and conditions of the Bid and specifications are unchanged.
This letter should be signed, attached to and become a part of your Bid.

COMPANY NAME: Strand Associates, Inc.

ADDRESS: 1525 Bull Lea Road, Suite 100, Lexington, KY 4051

SIGNATURE OF BIDDER: _____



Lexington-Fayette Urban County Government
DEPARTMENT OF FINANCE & ADMINISTRATION

Jim Gray
Mayor

William O'Mara
Commissioner

ADDENDUM #2

RFP Number: **#55-2014**

Date: October 7, 2014

Address inquiries to:
Sondra Stone
(859) 258-3320

Subject: Investigation/Design Services for Town Branch WWTP Headworks Improvements

TO ALL PROSPECTIVE SUBMITTERS:

Please be advised of the following clarifications to the above referenced RFP:

1. Proposed schedule to award construction contract is April 2015.
2. Project completion date prior to December 31, 2016 per Consent Decree
3. Plans are to remain with current flow capability:
 - a. 30 MGD average, peak 64 MGD
 - b. Fine screens average 42 MGD each
 - c. Pista grits average 50 MGD each.
4. Expected completion date for current controls project is mid-Nov 2014.
5. Structural drawings attached.

6. Pre-bid sign-in sheet is attached.



Todd Slatin, Director
Division of Central Purchasing

All other terms and conditions of the Bid and specifications are unchanged.
This letter should be signed, attached to and become a part of your Bid.

COMPANY NAME: Strand Associates, Inc.

ADDRESS: 1525 Bull Lea Road, Suite 100, Lexington, KY 4051

SIGNATURE OF BIDDER: 

AFFIDAVIT

Comes the Affiant, Matthew S. Richards, and after being first duly sworn, states under penalty of perjury as follows:

1. His/her name is Matthew S. Richards and he/she is the individual submitting the proposal or is the authorized representative of Strand Associates, Inc.[®], the entity submitting the proposal (hereinafter referred to as "Proposer").

2. Proposer will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the proposal is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Proposer will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Proposer has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Proposer has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Proposer will not violate any provision of the campaign finance laws of the Commonwealth.

6. Proposer has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

Continued on next page

7. Proposer acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

Matthew S. Richards

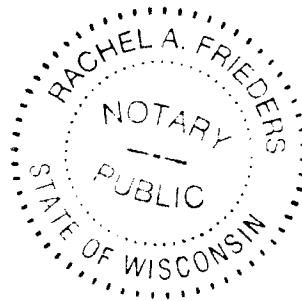
STATE OF Wisconsin

COUNTY OF Dane

The foregoing instrument was subscribed, sworn to and acknowledged before me by Matthew S. Richards on this the 15th day of October, 2014.

My Commission expires: June 30, 2011

Rachel A. Frieders
NOTARY PUBLIC, STATE AT LARGE



GENERAL PROVISIONS

1. Each Respondent shall comply with all Federal, State & Local regulations concerning this type of service or good.

The Respondent agrees to comply with all statutes, rules, and regulations governing safe and healthful working conditions, including the Occupational Health and Safety Act of 1970, 29 U.S.C. 650 *et. seq.*, as amended, and KRS Chapter 338. The Respondent also agrees to notify the LFUCG in writing immediately upon detection of any unsafe and/or unhealthful working conditions at the job site. The Respondent agrees to indemnify, defend and hold the LFUCG harmless from all penalties, fines or other expenses arising out of the alleged violation of said laws.

2. Failure to submit ALL forms and information required in this RFP may be grounds for disqualification.
3. Addenda: All addenda, if any, shall be considered in making the proposal, and such addenda shall be made a part of this RFP. Before submitting a proposal, it is incumbent upon each proposer to be informed as to whether any addenda have been issued, and the failure to cover in the bid any such addenda may result in disqualification of that proposal.
4. Proposal Reservations: LFUCG reserves the right to reject any or all proposals, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by a Respondent in the preparation of proposals.
6. Changes/Alterations: Respondent may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the proposal, and received by LFUCG prior to the scheduled closing time for receipt of proposals, will be accepted. The proposal, when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of proposal".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from a Respondent.
8. Bribery Clause: By his/her signature on the bid, Respondent certifies that no employee of his/hers, any affiliate or Subcontractor, has bribed or

attempted to bribe an officer or employee of the LFUCG.

9. Additional Information: While not necessary, the Respondent may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the Respondent's response. Additional documentation shall not serve as a substitute for other documentation which is required by this RFP to be submitted with the proposal,
10. Ambiguity, Conflict or other Errors in RFP: If a Respondent discovers any ambiguity, conflict, discrepancy, omission or other error in the RFP, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
11. Agreement to Bid Terms: In submitting this proposal, the Respondent agrees that it has carefully examined the specifications and all provisions relating to the work to be done attached hereto and made part of this proposal. By acceptance of a Contract under this RFP, proposer states that it understands the meaning, intent and requirements of the RFP and agrees to the same. The successful Respondent shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to Respondent shall be authorized for services or expenses reasonably covered under these provisions that the proposer omits from its Proposal.
12. Cancellation: If the services to be performed hereunder by the Respondent are not performed in an acceptable manner to the LFUCG, the LFUCG may cancel this contract for cause by providing written notice to the proposer, giving at least thirty (30) days notice of the proposed cancellation and the reasons for same. During that time period, the proposer may seek to bring the performance of services hereunder to a level that is acceptable to the LFUCG, and the LFUCG may rescind the cancellation if such action is in its best interest.

A. Termination for Cause

- (1) LFUCG may terminate a contract because of the contractor's failure to perform its contractual duties
- (2) If a contractor is determined to be in default, LFUCG shall notify the contractor of the determination in writing, and may include a specified date by which the contractor shall cure the identified deficiencies. LFUCG may proceed with termination if the contractor fails to cure the deficiencies within the specified time.

- (3) A default in performance by a contractor for which a contract may be terminated shall include, but shall not necessarily be limited to:
- (a) Failure to perform the contract according to its terms, conditions and specifications;
 - (b) Failure to make delivery within the time specified or according to a delivery schedule fixed by the contract;
 - (c) Late payment or nonpayment of bills for labor, materials, supplies, or equipment furnished in connection with a contract for construction services as evidenced by mechanics' liens filed pursuant to the provisions of KRS Chapter 376, or letters of indebtedness received from creditors by the purchasing agency;
 - (d) Failure to diligently advance the work under a contract for construction services;
 - (e) The filing of a bankruptcy petition by or against the contractor; or
 - (f) Actions that endanger the health, safety or welfare of the LFUCG or its citizens.

B. At Will Termination

Notwithstanding the above provisions, the LFUCG may terminate this contract at will in accordance with the law upon providing thirty (30) days written notice of that intent, Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.

13. **Assignment of Contract:** The contractor shall not assign or subcontract any portion of the Contract without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. **No Waiver:** No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this Contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.

15. Authority to do Business: The Respondent must be a duly organized and authorized to do business under the laws of Kentucky. Respondent must be in good standing and have full legal capacity to provide the services specified under this Contract. The Respondent must have all necessary right and lawful authority to enter into this Contract for the full term hereof and that proper corporate or other action has been duly taken authorizing the Respondent to enter into this Contract. The Respondent will provide LFUCG with a copy of a corporate resolution authorizing this action and a letter from an attorney confirming that the proposer is authorized to do business in the State of Kentucky if requested. All proposals must be signed by a duly authorized officer, agent or employee of the Respondent.
16. Governing Law: This Contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this Contract, the Parties agree that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division. All parties expressly consent to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to this Contract or any rights or obligations arising thereunder. Service of process may be accomplished by following the procedures prescribed by law.
17. Ability to Meet Obligations: Respondent affirmatively states that there are no actions, suits or proceedings of any kind pending against Respondent or, to the knowledge of the Respondent, threatened against the Respondent before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of Respondent to perform its obligations under this Contract, or which question the legality, validity or enforceability hereof or thereof.
18. Contractor understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Contractor is an independent contractor at all times during the performance of the services specified.
19. If any term or provision of this Contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.

Matthew Schickel
Signature

10/10/14
Date

Table of Contents

	Section
Cover Letter	
■	A.
Estimated Cost	
■	B.
Specialized Experience	
■	C.
Capacity to Perform Work	
■	D.
Character, Integrity, Reputation, Judgment, Experience and Efficiency	
■	E.
Past Performance	
■	F.
Familiarity	
■	G.
Degree of Local Employment	
■	H.
Appendix	
■ <u>Required Forms</u>	
<i>MBE WBE Participation</i>	
<i>Good Faith Effort</i>	
<i>Affirmative Action Plan</i>	
<i>Equal Opportunity Agreement</i>	
<i>Work Force Analysis Form</i>	
<i>Certificate of Insurance</i>	



October 21, 2014

Mr. Todd Slatin, Purchasing Director
Lexington-Fayette Urban County Government
Room 338, Government Center
200 East Main Street
Lexington, KY 40507

Re: RFP #55-2014 Investigation/Design Services for Town Branch WWTP Headworks
Improvements

Dear Mr. Slatin:

Thank you for the opportunity to submit this proposal for the above referenced project. **Selecting Strand Associates for the Town Branch Headworks Improvements Project Results in an Operator-Friendly Facility that Meets Current and Future Grit Removal and Screening Needs.** Listed below are major factors that support this statement and distinguish our Project Team as a perfect match to the project needs.

- **Strand's Understanding of Existing Town Branch Treatment, SCADA and Electrical Systems Results in Seamless Incorporation of Screening and Grit Removal Facilities**
- **Our Proven Service and Commitment to LFUCG Demonstrates Our Ability to Serve LFUCG Effectively on this Project**
- **Experience Implementing Screen and Grit Removal Facilities Leads to the Optimal Solution for Town Branch WWTP**
- **Strand's Collaborative Approach Addresses Operation Staff Concerns for a User-Friendly Facility**
- **Strand's DBE Participation Provides Project Consistency and Meets LFUCG Goal**

We look forward to the opportunity to continue our service on behalf of the Lexington-Fayette Urban County Government.

Sincerely,

STRAND ASSOCIATES, INC.[®]

A handwritten signature in blue ink, appearing to read "Michael L. Davis", is written over a faint, light-colored circular stamp or watermark.

Michael L. Davis, P.E.
Senior Associate

B. Estimated Cost

Estimated Cost

Strand's History of Service to LFUCG Includes Track Record of Project Delivery Within Established Budgets

Our proposed fee is summarized below:

Strand's fee reflects our full understanding of the project requirements.

Task	Description	Fee
1	Existing Headworks Operation Review	\$3,000
2	Develop Equipment Replacement Concepts	\$12,000
3	Detailed Design	\$34,000
4	Bidding Services	\$6,000
5	Construction Services	\$20,000*
Total Fee		\$75,000

* Construction Services fee estimate is based on 6 month construction period.

Specialized Experience

Strand's Proven Service and Commitment to LFUCG Demonstrates Our Ability to Serve LFUCG Effectively on this Project

Strand Associates, Inc.[®] has been providing consistent and dependable civil and environmental engineering services for public and private sector clients since 1946. To serve our national client base effectively, we have 350 staff in 10 offices throughout the country, including offices in Lexington, Kentucky. Our Lexington-based staff have an established track record serving LFUCG since 1970. Wastewater is a major area of specialized experience for our company. In 2014, we ranked 171 in the ENR Top 200 Environmental Firms. Our project team provides the capabilities of a nationally recognized firm, with service from our local Lexington staff. Our project team brings the following key attributes to this important LFUCG project.

Strand's Understanding of the Town Branch Treatment Process, SCADA and Electrical Systems Results in Seamless Incorporation of Screening and Grit Removal Facilities

Screen and grit improvements are required to address remedial measures plan and reduce O&M costs.

The Town Branch WWTP was constructed during a major renovation in the late 1980s. The plant has a 30 MGD design capacity and 64 MGD hydraulic capacity utilizing an extended aeration treatment process with primary and secondary clarification. The headworks facility provides coarse screening, fine screening and grit removal. Strand provided engineering services for LFUCG when the existing headworks was constructed, and for subsequent upgrade projects.

The headworks facility contains a mechanically cleaned coarse screen that removes large debris from plant influent flow. Screenings are discharged into a receiving tray for manual removal. This screen is beginning to show signs of wear. This project will replace the screen with another mechanically cleaned screen.

Grit is removed through parallel vortex grit chambers with Smith and Loveless "Pista Grit" equipment. Grit is then processed through Wemco grit pumps and Wemco grit classifiers for disposal. The grit system generally provides good service and operation, but is subject to clogged grit piping, particularly during high flows. The grit system requires renovation to address deteriorated grit piping, aging equipment and to coordinate flow capacities with the new equalization facilities.

The headworks facility is monitored and controlled through a plant-wide SCADA system. Construction of a new SCADA system upgrade is nearing completion. Strand provided engineering services for the original



Town Branch WWTP.

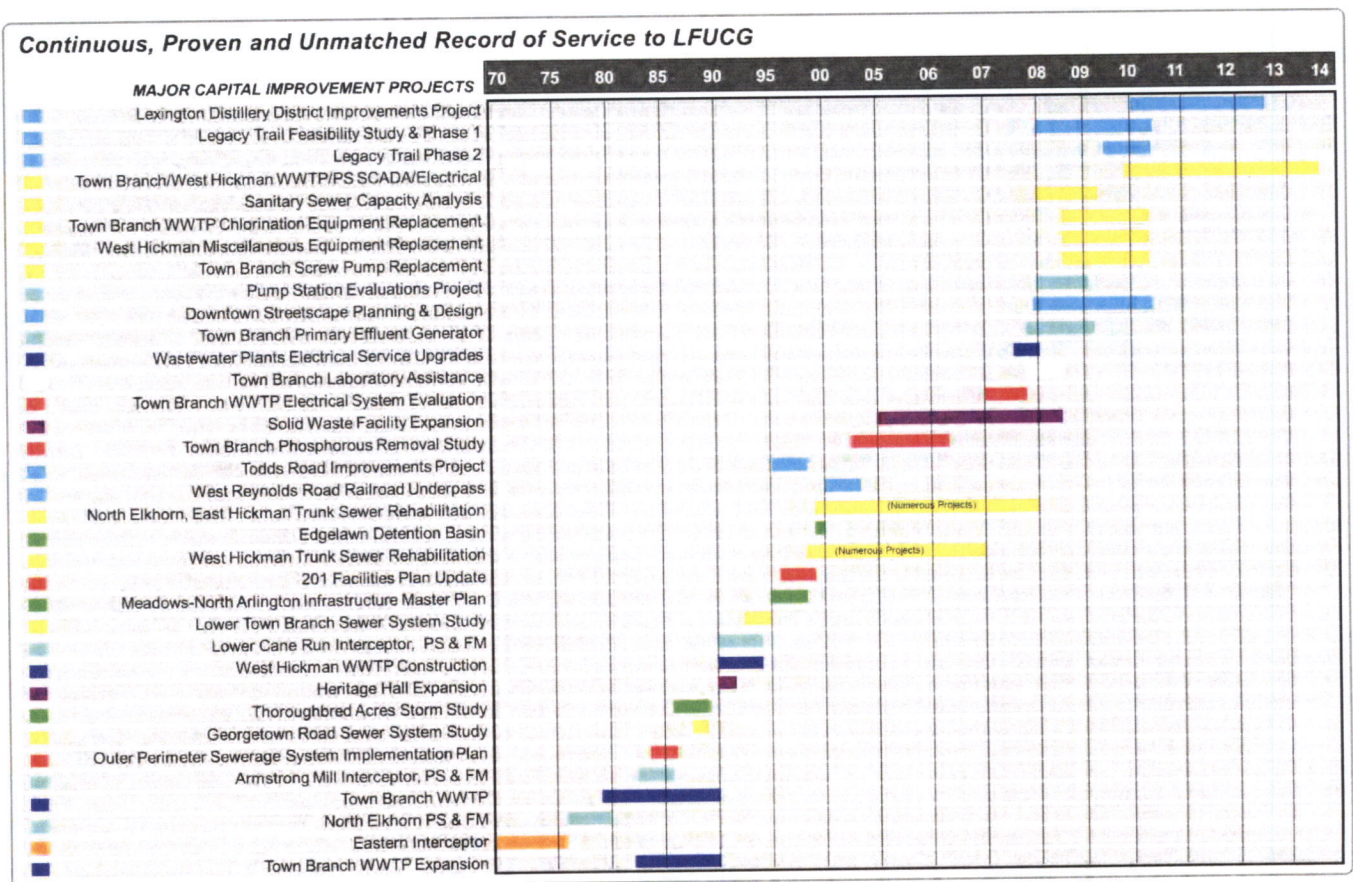
computer-based SCADA system as well as the current SCADA system improvements project. The headworks Motor Control Center is being replaced as part of the SCADA and electrical improvements project. New screening and grit removal systems will need to be coordinated with these recently upgraded SCADA/electrical systems. Strand's familiarity with the aspects of the headworks facility, including process, mechanical, electrical and SCADA control provide us with the background to efficiently implement screen and grit improvements. No other engineering firm has the level of knowledge that the Strand Team brings to this project.

Our Proven Service and Commitment to LFUCG Demonstrates Our Ability to Serve LFUCG Effectively on this Project

Strand's commitment to LFUCG is demonstrated by a history of successfully completed projects at Town Branch WWTP.

Strand has served LFUCG continuously and successfully since 1970. We are proud of our record of performance and the privilege to be of service to the Urban County Government and to the community. Strand has provided a broad range of wastewater engineering services from initial planning through design and construction phases. Members of the Strand project team worked on the original headworks facility design and construction in the late 1980s. More recently we provided engineering services for the Primary Effluent Pump Station Improvements project, and the on-going Town Branch Electrical and SCADA Improvements Project. Strand also completed the Town Branch Phosphorus Study in 2005, that provides the basis for meeting future phosphorus removal requirements.

The following table shows Strand's 40+ year history of serving LFUCG.



Based on direct knowledge of the Town Branch WWTP infrastructure gained during the successful performance of multiple wastewater projects over the past forty years, Strand brings *extensive knowledge and experience to the Town Branch WWTP Headworks Improvements project.*

Experience Implementing Screen and Grit Removal Facilities Leads to the Optimal Solution for Town Branch WWTP

Strand's Project Team has significant experience implementing screening and grit removal facilities for wastewater treatment plants with similar peak flow capacities to the Town Branch WWTP. Strand's experience includes the original design for the Town Branch WWTP. Our Project Manager provided design and construction-phase services for the original facilities, and is intimately familiar with the existing screen and grit removal systems. We have also provided screen design services for LFUCG's West Hickman WWTP, where Strand designed a replacement for the aging coarse screen at this facility.

A partial listing of our firm's screening and grit removal experience is included in the following table. We would be happy to provide additional information regarding these projects at LFUCG's request.

Strand's experience includes the original Town Branch screening and grit removal systems.

STRAND ASSOCIATES, INC. SELECTIVE SCREENING AND GRIT REMOVAL EXPERIENCE					
Client	Peak Hourly Flow (mgd)	Installation Date	Grit Removal	Mechanical Screening	Remodeling Project
LFUCG Town Branch WWTP	64	1990	Vortex	X	
LFUCG West Hickman WWTP	78	1992	Vortex	X	
Athens, OH	8.1	On-going	Vortex		X
Columbus, IN	39	2011	Vortex	X	
KRMA, IL	85	On-going	Vortex	X	
LFUCG West Hickman WWTP	78	2009		X	X
Oshkosh, WI	120	2009, 1993	Aerated	X	X
Fontana/Walworth WPC, WI	5.4	2006	Vortex	X	X
Parkersburg, WV	32.7	2006	Vortex	X	
Glendale Heights, IL	32	2005	Vortex	X	X
Joliet, IL (Aux Sable)	20	2005	Vortex	X	
Sussex, WI	17	2007	Vortex	X	X
Stoughton, WI	4.12	2004, 1975	Aerated	X	X
Seymour, IN	30	2002	Vortex	X	X
Brookfield, WI	50	1996	Vortex	X	X
Dubuque, IA	34.3	1994	Vortex	X	X

Strand's Collaborative Approach Addresses Operation Staff Concerns for a User-Friendly Facility

For a project of this nature to be successful, it must incorporate input from LFUCG staff that are responsible for these facilities on a daily basis. Strand's approach to project development emphasizes owner input. Beginning with the project kick-off meeting and continuing through all phases of project development, Strand will engage LFUCG operations and engineering staff to obtain input regarding these new systems. This input, combined with Strand's engineering expertise, will result in efficient, cost-effective systems. Strand has demonstrated this approach through prior projects completed with the LFUCG Division of Water Quality.

Strand's DBE Participation Provides Project Consistency and Meets LFUCG Goal

We are pleased to have EHI Consultants, Inc. (EHI) as part of our project team. Strand and EHI have collaborated on LFUCG projects for nearly ten years. For this project, EHI supplements Strand's staff to perform computer drafting, plan production and construction-related services. Strand is committed to meeting the LFUCG 10% DBE participation goal for this project.

Our Project Team is structured to meet LFUCG's DBE participation goal utilizing experienced professionals.

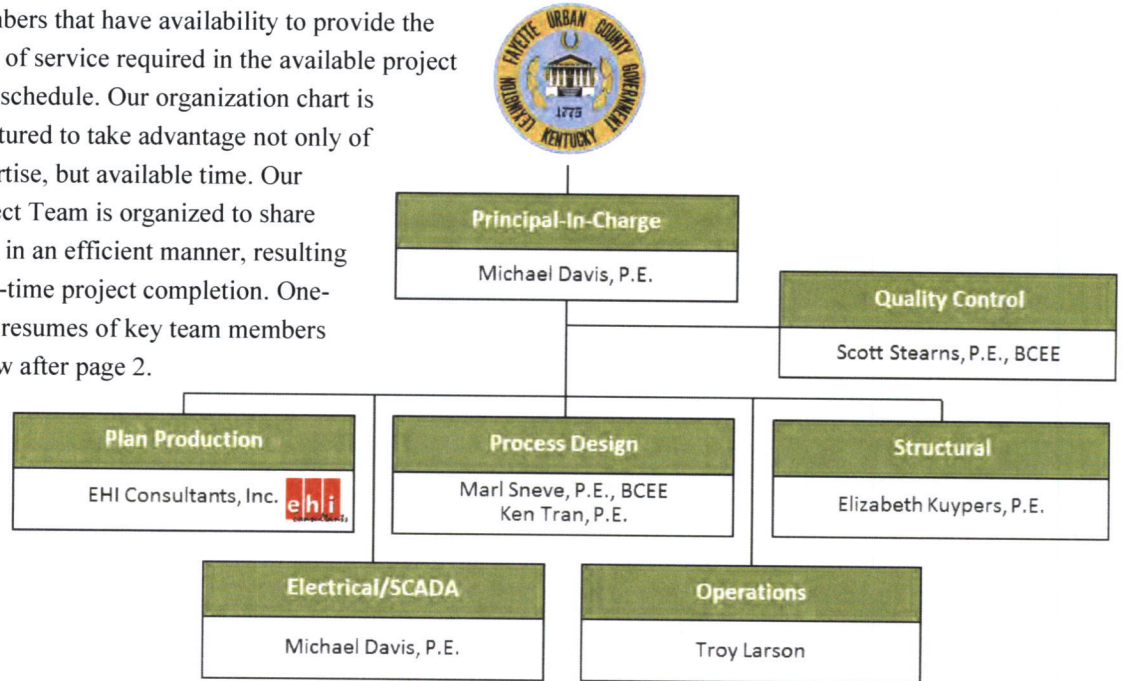
Capacity to Perform Work

Strand's Project Team Provides the Resources Required to Complete This Important Project

Our Team has the requisite credentials and capabilities, and is committed to the successful completion of this project.

Our Project Team was assembled to provide all the technical expertise required to see this project through to completion. Our Team includes individuals who have an overall understanding of wastewater treatment process, screening and grit removal facilities, and have lengthy professional careers successfully providing these services for Lexington-Fayette Urban County Government (LFUCG) and other municipal utilities.

In addition to technical expertise, we selected Team Members that have availability to provide the level of service required in the available project time schedule. Our organization chart is structured to take advantage not only of expertise, but available time. Our Project Team is organized to share tasks in an efficient manner, resulting in on-time project completion. One-page resumes of key team members follow after page 2.



QUALIFICATIONS OF KEY PROJECT TEAM MEMBERS



Michael L. Davis, P.E. - Project Manager

Mike has over 31 years of experience serving LFUCG on numerous wastewater treatment projects. He has served as Strand Project Manager for many LFUCG projects, including the recently completed pump station condition assessment, the Town Branch/West Hickman WWTP Utility Dual Feed Project and the Town Branch/West Hickman WWTP Electrical/SCADA Improvements project. Mike was a project engineer during the original 1988 headworks construction project, giving him a unique perspective for completing this headworks renovation project. Mike will be assisted through bidding and construction by Team Members that are familiar with LFUCG project administration. **Elizabeth A. Kuypers, P.E.** will assist Mike by providing technical expertise, attending project meetings with Mike, and processing the various documents required during construction. Mike will also serve as the electrical and SCADA project engineer.



Scott W. Stearns, P.E., BCEE - Quality Control

Scott will be responsible for the **Quality Control** of this project. Scott is a licensed professional engineer with 21 years of project experience. Scott has been responsible for planning, design, and construction projects for wastewater facilities serving populations of 1,000 to 300,000 and with costs ranging from \$10,000 to \$42.5 million.



Mark A. Sneve, P.E., BCEE - *Process Design*

Mark will provide **process design** services for screening and grit removal systems. Mark is a licensed professional engineer, with 25 years of project experience. Mark has extensive experience providing engineering services for major wastewater plant expansions. Mark is very familiar with the Town Branch WWTP. In 2005, he completed a phosphorus removal study that identified plant modifications that would be required to comply with potential phosphorus limits. He was the project manager for the chlorination/dechlorination system improvements completed in 2009. He also performed a blower/aeration system evaluation to determine modifications that would improve overall plant operation and efficiency. Mark also designed the mechanical screen upgrade project at West Hickman WWTP in 2009.



Ken H. Tran P.E. - *Process Design*

Ken will assist Mark with any process design engineering services as required. Ken has a Master’s degree from the Iowa State University, with over 15 years of experience in treatment processes, pump station design and planning. Ken has served LFUCG on recent projects, including the on-going West Hickman blower/aeration improvements. Ken has supported Mike Davis and Mark Sneve on other wastewater plant design projects for Kentucky clients.



Elizabeth A. Kuypers, P.E. - *Structural*

Liz will provide structural engineering design services. Liz is a licensed professional engineer, with 11 years of experience, including wastewater and water treatment plant projects. She has managed a variety of types of projects through design and construction phase services, including the Town Branch Primary Effluent Pump Station Upgrade.



Troy A. Larson - *Operations*

Troy will be the **plant operations specialists** for this project. Troy received his B.S. degree in Biology and has 19 years of broad experience in the wastewater operations field, including plant operations. He has operated treatment facilities, worked as a soils technician, and currently works to support our wastewater treatment facility planning, design, and construction-related projects with input from the operator’s perspective. Troy has an extensive background in the optimization and control of wastewater treatment processes. He has performed in a similar role for LFUCG projects, providing operator-focused input for wastewater system design, and providing follow-up services to help optimize treatment operation.

Subconsultant Participation



EHI Consultants is a regular participant on Strand Project Teams, and will provide drafting and plan preparation, and construction-related services. This is a role EHI recently performed as part of the Strand West Hickman WWTP aeration improvements project. EHI provides our Team with DBE subcontracting opportunities in line with LFUCG’s 10% participation goal.

Strand’s Risk Management Plan and past project history demonstrate commitment to staffing continuity.

Project Staffing Risk Management Plan

Strand’s project team includes redundancy in major staff assignments to anticipate the event that key staff leave the project team prior to completion of the project. In addition, Strand has the ability to rely on other qualified firm personnel for project team leadership, and to meet specific technical requirements.

Michael L. Davis, P.E.

Education

B.S. Electrical Engineering – University of Kentucky, Lexington, 1984

Registration

Professional Engineer in Kentucky, Alabama, and Mississippi

Field of Expertise

Wastewater Treatment Facilities; Wastewater Pumping Stations and Force Mains; Construction Administration and Project Management; Electrical Distribution, Site Utilities; Instrumentation and Control; and Sewer System Rehabilitation

Positions Held

Strand Associates, Inc. ^k	1983 – Present	Senior Associate, Project Engineer/Senior Project Manager/Director of Operations
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Professional Experience

- **Wastewater Treatment Facilities** experience includes project management and design for treatment plants up to 30 mgd. Responsibilities include process, electrical and instrumentation design, management during the design, bidding, and construction administration phases of the project.
 - **Town Branch Primary Effluent Pump Station Upgrade, Lexington-Fayette Urban County Government, Lexington, KY** - Hydraulic and electrical engineer for this pump station improvements project that replaced three screw pumps with six submersible pumps and associated controls.
 - **Town Branch WWTP Expansion, Lexington-Fayette Urban County Government, Lexington, KY** - Electrical, control and instrumentation design for major plant expansion to current 30 mgd treatment capacity.
 - **Town Branch and West Hickman WWTP Electrical SCADA and Aeration Improvements, Lexington-Fayette Urban County Government, Lexington, KY** - Project Manager and principal electrical engineer for this on-going \$17Million project to replace SCADA systems at both treatment plants, upgrade West Hickman WWTP electrical distribution system, and add new aeration blowers at the West Hickman WWTP.
- **Pumping Station** experience includes project management and design experience for wastewater pumping stations and force mains. Pump station sizes range from 35 to 15,000 gpm. Force mains range in diameter up to 30 inches, and lengths up to 24,000 feet.
- **Electrical Instrumentation and Control** experience includes design and construction-phase services for numerous projects including water and wastewater treatment plants, pumping stations, commercial office buildings, signals and lighting. Projects include distribution systems with voltages ranging from 120/240 volts to 12,470 volts. Instrumentation control experience includes PC-based SCADA systems with up to 60 remote sites, and PLC-based control systems and treatment process monitoring/control equipment to provide plant automatic control.

Professional Affiliations

- Kentucky Society of Professional Engineers
- National Society of Professional Engineers
- American Council of Engineering Companies

Continuing Education and Seminars

- Confined Space Awareness Training – Confined Space Regulation and Equipment Familiarization Course – *Received information and training requirements as set forth in Subpart J–Fall Protection, 29 CFR Part 1910.146* – April 2004
- Four-Hour Fall Protection Training – Fall Protection Regulation and Equipment Familiarization Course – *Received information and training requirements as set forth in Subpart M–Fall Protection, 29 CFR Parts 1910 and 1926 specifically part 1926.503* – April 2004

Scott W. Stearns, P.E., BCEE

Education

M.S. Civil/Environmental Engineering – University of Iowa, Iowa City, 1993

B.S. Civil/Environmental Engineering – University of Iowa, Iowa City, 1991

Registration/Certification

Professional Engineer in Wisconsin, West Virginia, Kentucky, Ohio, and Illinois

Field of Expertise

Water and Wastewater Treatment Unit Processes, including Screening and Grit Removal, Solids Processing, Odor Control, Conveyance System Evaluations, Project and Construction Management

Positions Held

Strand Associates, Inc. [*]	2002 – Present	Senior Associate, Discipline Coordinator
	1993 – 2002	Wastewater Project Manager/Engineer
University of Iowa	1991 – 1993	Research Assistant

Professional Experience

- **Wastewater and Water Treatment** experience includes facility planning, design construction, and project management ranging from small plant expansions to multimillion dollar Greenfield plants. Scott served as Project Manager for the Western Kentucky Logan Todd Regional Water Treatment Plant, a 10 mgd, \$25 million project, and for the Parkersburg Utility Board 10 mgd, \$42.3 million wastewater treatment plant expansion and for the Kankakee River Metropolitan Agency 25 mgd, \$50 million wastewater treatment Plant expansion. Specific areas of process expertise include headworks facilities, biological treatment systems, anaerobic digestion and mixing, and sludge thickening and dewatering. Scott's experience also includes process instrumentation, control strategies, and system implementation. Scott routinely provides the following services to support treatment plant projects: permit and regulatory issues; user charge preparation; sludge regulations; operator training and system startup.

Professional Affiliations

- American Society of Civil Engineers
- Water Environment Federation/Central States Water Environment Association
- American Water Works Association/AWWA Wisconsin Section
- Wisconsin Wastewater Operators Association
- American Academy of Environmental Engineers
- West Virginia Municipal Water Quality Association

Awards

- Commissioned as a Kentucky Colonel by the Governor of Kentucky for the outstanding service provided during planning, design and construction of the Logan Todd Regional Water Commission WTP. This award honors those who have made significant contributions to the betterment of the Commonwealth of Kentucky.
- The American Council of Engineering Companies of Wisconsin "Best in State" Award for the Logan Todd Regional Water Treatment Plant in the 2004 Engineering Excellence Award Competition.

Mark A. Sneve, P.E., BCEE

Education

M.S. Civil/Environmental Engineering – University of Iowa, 1989

B.S. Civil/Environmental Engineering – University of Iowa, 1987

Registration

Professional Engineer in Kentucky, Indiana, Ohio, Mississippi, Alabama, and Wisconsin

Field of Expertise

Wastewater Collection and Treatment Facilities, Biological Processes, Advanced Nutrient Removal, Solids Handling Processes, Combined Sewer System Studies, Infiltration and Inflow Studies, User Charge Systems (Rate Studies), Industrial Waste Treatment, Industrial Pretreatment Programs

Positions Held

Strand Associates, Inc. [®]	1989 – Present	Senior Associate, Project Engineer, Project Manager, Lab QC Director, Discipline Coordinator
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Professional Experience

Consulting experience in the field of environmental engineering with emphasis on wastewater treatment process selection, planning, treatment system design, construction coordination, startup and operator training.

- **Wastewater Treatment** experience includes serving as project engineer, assistant project manager, or project manager for efforts in facilities planning of major additions and upgrades for municipal wastewater treatment plants, process design for wastewater treatment facilities, additions to wastewater treatment plants with high industrial flows, coordinator of construction efforts, serving as resident project representative, contributing to operation and maintenance manuals for various municipal wastewater treatment facilities, instructing staff on wastewater facility operation, and user charge system studies.
- **Combined Sewer Systems** experience includes preparing CSO Operational Plans, Long-Term Control Plans, investigating solids and floatable control, water quality sampling, monitoring and data evaluation, Citizen Advisory Committees and negotiating Enforcement Actions with Agencies.
- **Specialized Field Service** experience includes efforts in the area of litigation support, managing compliance with enforcement proceedings, industrial pretreatment permitting, industrial discharge monitoring, groundwater investigations, solids processing equipment evaluations, industrial sampling auditing, priority pollutant sampling, and coordination of WWTP effluent biomonitoring.
- **Laboratory** experience includes serving as Director of Technical Activity for private laboratory. Responsible for laboratory quality assurance plan, troubleshooting, personnel, and financial aspects.

Professional Affiliations

- American Society of Civil Engineers
- National Society of Professional Engineers, KSPE
- Water Environment Federation
- Kentucky – Tennessee WEA, Indiana WEA
- Kentucky Water and Wastewater Operators Association

Elizabeth A. Kuypers, P.E.

Education

B.S. in Civil Engineering – University of Dayton, Ohio, 2002

Registration

Professional Engineer in Kentucky

Field of Expertise

Project Management, Structural Design of Water Supply and Wastewater Treatment Facilities, Commercial, Educational and Industrial Buildings, and Retaining Structures

Positions Held

Strand Associates, Inc. [®]	2002 – Present	Structural Engineer/Project Manager/Municipal Discipline Coordinator
LJB, Inc.	2001	Cooperative Education – Bridge and Highway Dept.
Shook Inc.	1999 – 2000	Cooperative Education – Building Construction

Professional Experience

Liz is a licensed professional engineer in Kentucky with more than 10 years of experience. Liz has a variety of project management experience covering municipal, water, wastewater, and structural design and construction administration projects. Her project management experience has ranged from small, short-term projects up to multiyear construction administration projects with construction budgets up to \$26 million. Liz's design capabilities include structural design, architectural related tasks, as well as sanitary sewer studies. Her structural project assignments have given her experience with steel framed buildings, reinforced concrete structures of all shapes and sizes, reinforced masonry structures, retaining structures in a variety of materials, and precast structures. Through the variety of projects she has worked on she has gained the ability to analyze buildings in a variety of situations and geographical locations, for compliance to building codes, including buildings in Hazardous occupancies.

- **Municipal Wastewater** experience includes structural design of wastewater treatment facilities utilizing cast-in-place concrete, precast concrete, reinforced masonry, and structural steel for both new facilities and modifications to existing facilities for communities in Kentucky, West Virginia, Ohio, Indiana, and Wisconsin. Construction project management and resident observation experience for wastewater treatment facilities in Kentucky.
- **Municipal Water** experience includes structural design of potable water reservoirs, pumping stations, and water treatment facilities for communities in Kentucky, West Virginia, and Wisconsin. Experience includes hazardous occupancy code review and compliance. Construction project management and resident observation experience for water treatment plant, water storage, and water main projects in Kentucky.
- **Project Management** experience with design and construction administration projects. Successful in managing large or small design teams on site-civil design, facilities design and water and wastewater treatment design projects. Effective manager of construction administration projects of all types and disciplines. Experience includes large and small site-civil contracts, water supply and wastewater treatment facilities and structural facilities.

Continuing Education and Seminars

- Leadership PE Graduate, Class of 2008 – 2009.
- Confined Space Awareness Training – Confined Space Regulation and Equipment Familiarization Course – *Received information and training requirements as set forth in Subpart J – Fall Protection, 29 CFR Part 1910.146* – April 2004
- Four-Hour Fall Protection Training – Fall Protection Regulation and Equipment Familiarization Course – *Received information and training requirements as set forth in Subpart M-Fall Protection, 29 CFR Parts 1910 and 1926 specifically part 1926.50* – January 2005

Professional Affiliations

- Kentucky Society of Professional Engineers (Secretary)
- National Society of Professional Engineers
- Lexington Young Professionals Association

Troy A. Larson

Education

B.S. Biology – University of Wisconsin-Whitewater, 1995

Registration

Certified Wastewater Operator in Wisconsin

Field of Expertise

Wastewater Operations Specialist, Wastewater Treatment Plant Operator Training, Wastewater Laboratory Analysis, Wastewater Process Control, Wastewater System Data Management, Biological Wastewater Treatment and Troubleshooting and Biological Wastewater Treatment

Positions Held

Strand Associates, Inc.*	1996 – Present	Wastewater, Operations Specialist Lab Analyst
Superior Biosolids	1995	Environmental Soil Technician
Wisconsin Whey International, Inc.	1992 – 1995	Wastewater Operator

Professional Experience

- **Operations Specialist** experience includes start-up services, operator training, microscopy evaluations, and troubleshooting.
- **Wastewater Treatment Operator** experience includes operating, monitoring, and controlling a high-rate anaerobic and aerobic wastewater treatment system for a high-strength dairy wastewater.
- **Wastewater Treatment Plant Start-Up and Operator Training** experience includes monitoring and controlling a wastewater treatment plant during major upgrades.
- **Lab Analysis** experience includes performing an analysis on wastewater and groundwater including quality control, and reporting of the data following the analysis.
- **Waste Removal** experience includes safe and proper application of wastewater treatment sludge and industrial and crop wastes to farmland.
- **Wastewater System Data Management** experience includes assistance with the organization and set-up of data management databases.
- **Utility Construction Observation** on various municipal projects.
- **Project Management** experience related to planning studies, wastewater operations, and groundwater monitoring-related services.
- **Industrial Wastewater Characterization** experience includes evaluation of products, raw materials, cleaning chemicals, and other factors that might impact wastewater treatment and pretreatment systems.
- **Pollutant Minimization Project** experience includes industry and community involvement in mercury source control projects.

Professional Affiliations

- Water Environment Federation
- Central States Water Environment Association (Wisconsin Section Operations Chair)
- Wisconsin Wastewater Operators Association (Technical Committee Member)

Character, Integrity, Reputation, Judgment, Experience and Efficiency

Strand's History of Success is Fostered by Helping Our Clients Succeed through Excellence in Engineering

Excellence in engineering is a hallmark of our business philosophy.

We are proud of our reputation for quality work, technical expertise, and efficiency of production, which is complemented by the character and integrity of our respective employees. Strict adherence to an attitude of professionalism and objectivity toward all of our clients has brought us success over the years, as evidenced by the longstanding history of our firm. Our record of success is firmly supported by this history and the volume of work we have been entrusted to administer on behalf of our clientele, many of whom we have maintained longstanding relationships spanning decades.

Our work experience includes a wide variety of engineering projects, including wastewater treatment, stormwater management, environmental regulatory compliance, water supply projects, municipal engineering, transportation, structural, electrical, surveying and mechanical projects. As a full-service engineering firm, it is our practice to follow our projects through to construction completion and beyond, providing the necessary staff to perform office and field activities alike.

The adjacent table highlights the volume of construction projects designed and bid by Strand. In addition, Strand provides a large volume of client service that does not result in construction for studies and other related field activities. We remain firm believers that the growth of this volume is indicative of our commitment to meeting client needs. *For calendar year 2013, Strand was ranked in the Engineering News Record as 180th of the Top 500 Design Firms nationally.*

Strand-Designed Construction Contracts		
Year	No. of Contracts	Bid Amount
2013	120	\$193,032,766
2012	126	\$161,900,000
2011	126	\$193,600,000
2010	84	\$218,802,494
2009	122	\$238,300,000
2008	104	\$101,600,000
2007	128	\$138,300,000
2006	168	\$168,300,000
2005	176	\$229,700,000
2004	157	\$129,600,000
2003	162	\$126,500,000

Our Character, Integrity, Reputation, Judgment, Experience and Efficiency are demonstrated by our years of consistent services to LFUCG.

Strand has been a part of the Lexington community for more than 46 years. During this time, we have served LFUCG on numerous major wastewater treatment projects, including the last Town Branch WWTP expansion that constructed the existing headworks facility. Our *Character, Integrity, Reputation, Judgment, Experience and Efficiency* are demonstrated by our long-standing working relationship with LFUCG, and the interaction of our Project Team members with DWQ and Town Branch WWTP staff.

Past Performance

Experience Gained Through Successful Completion of Screening and Grit Removal Projects Provides the Basis for Meeting LFUCG Project Needs

Selecting Strand Associates for this project results in significant experience applied toward your grit and screening facility renovation.

Screening and Grit Removal Applications

Our project designs routinely include screening and grit removal systems. The effective operation of these facilities are essential to address maintenance and operational problems in other plant treatment processes. Three examples of Strand's screening and grit experience are described below. Strand has completed many other similar projects, with references available at LFUCG's request.

Reference:

Jim Worten
Superintendent
Lexington-Fayette Urban
County Government
(859) 272-1713
jworten@lexingtonky.gov

Year Completed:
2010

Relevant to Project:
Screening

West Hickman WWTP – LFUCG, Lexington, KY

Strand provided engineering services for the West Hickman Creek Wastewater Treatment Facility Influent Bar Rack replacement project in 2010. Their influent pumping station was protected by a static bar rack to remove large debris prior to pumping. The static screens were increasingly labor intensive, especially during peak flows.



West Hickman WWTP.

Strand was retained to select and design a mechanically-cleaned bar rack for the 78 mgd peak flow facility. Strand evaluated numerous manufacturers and styles of influent screens and identified two types that would meet the project objectives and physically fit within the space available.

LFUCG authorized Strand to design around both types which allowed LFUCG to select based on actual bid costs. LFUCG elected to install a front raked, catenary-type, mechanically-cleaned screen. The project was constructed and placed into service in 2010. **Maintenance of flow during construction was a challenge that was overcome by collaboration between the owner, contractor and Strand.**



Mechanically cleaned screen installed in existing channel.

Columbus City Utilities – Columbus, IN

Reference:

Keith Reeves, P.E.
Director
Columbus City Utilities
(812) 372-8861
kreeves@columbusutilities.org

Year Completed:

2011

Relevant to Project:

Screening
Grit Removal
SCADA

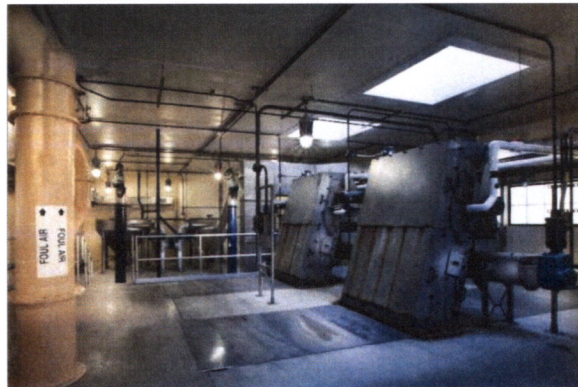
Columbus City Utilities (CCU) was in immediate need of replacing its 50-year-old, undersized, wastewater treatment facility. Located on the river 2 blocks from downtown, the facility was plagued with constant mechanical failures, produced foul odors that invaded the area, and was often unable to properly treat wastes, thus polluting local rivers and streams. A new facility and location were crucial to the well-being of the community, as well as continuing with the City of Columbus' 20/20 vision to revitalize its downtown area.



CCU represents an innovative application of existing and new technologies to cost effectively, biologically treat wastewater and stormwater flows.

The CCU facility included preliminary treatment utilizing fine screens and grit removal.

We were hired to develop a preliminary engineering report and design, and provide construction-related services for this \$43 million, 14-mgd wastewater facility, which is located approximately 2 miles south of downtown Columbus. The WWTF includes a headworks with fine screening, grit removal/washing, two oxidation ditches, four final clarifiers, a RAS pumping station, UV effluent disinfection, an outfall sewer, a Cannibal Sludge Reduction Process™, aerated solids holding, centrifuge biosolids dewatering, emergency power, biological odor control, and an administration and maintenance building



Screening and grit removal facilities (*grit washers in background*).



One of four secondary clarifiers.

Glenbard Wastewater Authority - Glen Ellyn, IL

Reference:

Erik Lanphier, Manager
Glenbard Wastewater
Authority
630-790-1901
ELanphier@gbww.org

Year Completed:
2004

Key Team Members:
Shane Zenz
Electrical Engineer

Relevant to Project:
Grit Removal

We have successfully completed numerous projects for the Glenbard Wastewater Authority. We were involved in two separate headworks improvement projects for this 12-mgd average and 47-mgd peak flow facility. We completed a Grit Removal Improvement Study to address the facility's low grit removal efficiencies due to improper flow distribution, improper diffuser/baffle locations, and less than ideal tank geometry. The low grit collection efficiencies have increased maintenance of the primary clarifiers and primary sludge pumping equipment, increased accumulation of grit in the anaerobic digesters, and resulted in excessive wear on the digester equipment. We designed and provided construction-related services for the rehabilitation of the existing aerated grit removal complex. Newer technology was provided, including two new mechanical vortex grit collectors rated at 23.5 mgd each. These units replaced the existing aerated grit system that was not performing well and contained equipment that had reached the end of its useful life.

Two new, recessed impeller centrifugal grit pumps were added along with two vortex grit washers. The two, vortex-type grit systems were cost-effectively retrofit into the existing aerated grit tanks, minimizing any excavation costs while reusing existing tankage. These improvements have increased grit removal efficiencies over the wide flow ranges experienced at the facility and produce a dewatered byproduct that is low in organic and fecal material to ease handling and disposal.

The two existing mechanical screens were then replaced in 2006 with two, 30-foot-deep, 3/16-inch Headworks-Mahr screens each rated for 47 mgd. Due to peak flow events, the Headworks-Mahr screen was selected because of its ability to enter into a high water-level mode using the VFD motor to accelerate the cleaning of the static bar rack. Diamond tread plate and rubber seals were strategically designed around the screen floor opening to seal the channel to allow the existing odor control fan to function more effectively.



Grit washer units.



Headworks-Mahr mechanical fine screens.

Low grit removal efficiencies were addressed through grit complex improvements.

Centrifugal grit pumps were utilized to convey grit from the grit collection system to the grit washers.

Familiarity

Strand's Unmatched Knowledge of Project Requirements and Existing Facilities Results in a Comprehensive Scope that Matches LFUCG's Needs

Our familiarity with project details and our proposed scope of services are outlined below.

Project Description

The Town Branch WWTP headworks facility includes one mechanically cleaned coarse screen, three mechanically cleaned fine screens with compactors, two grit chambers with Smith and Loveless "Pista Grit" units, two Wemco grit pumps and two Wemco grit classifiers. Screening and grit removed from plant influent flow is automatically loaded into a truck for transport. These facilities were originally constructed in the late 1980s during the last plant expansion. The coarse and fine screens have been upgraded since the original construction. Other equipment has been replaced with similar units, or repaired as required to maintain system operation. **LFUCG desires to replace the coarse screen and renovate the grit removal system.** These improvements are required to address aging equipment, to coordinate with upstream equalization facilities and to improve screening and grit removal efficiencies.

Strand's continuous involvement at Town Branch WWTP since its 1980s expansion provides the basis for our scope of services.



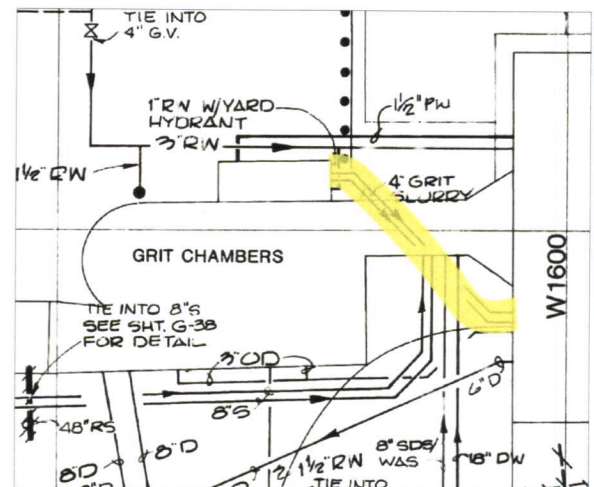
Existing grit removal facilities at Town Branch.

Scope of Engineering Services

Strand's Scope of Services is tailored to meet the requirements contained within LFUCG's RFP, and to address specific project needs that we have identified through our investigation. The Scope of Services is described below, following the format contained in the RFP. Our approach to project design and implementation includes significant interaction with plant staff. This interaction starts with the operations review, and extends through project completion.

Task 1: Existing Headworks Operations Review

Strand will interview Town Branch operations and management staff regarding operation, maintenance and control of the existing screen and grit removal systems. Through this process, Strand will obtain information regarding the daily operation maintenance of existing facilities. Strand will also utilize information available from prior Town Branch studies and design activities completed by Strand. These include the original 1988 design, 2005 Phosphorus study, 2007 Electrical Condition Assessment, and 2012 Electrical/SCADA improvements project.



Grit chambers and deteriorated grit piping.

Task 2: Develop Equipment Replacement Concepts

The Town Branch WWTP process currently utilizes an aerated conventional activated sludge system, with primary and secondary clarification. The headworks facility removes screenings and grit from wastewater prior to the primary clarifier facilities. During most flow conditions, these facilities appear to remove screenings and grit efficiently, preventing these materials from entering other treatment processes with the plant. However; improvements need to be implemented in the headworks facility based on the remedial measures plan that address maintenance concerns caused by equipment age, and to accommodate peak flows that will be encountered when equalization facilities are placed in operation.



Existing mechanically cleaned coarse screen.

Using a collaborative approach, working with LFUCG operations and engineering staff, Strand will evaluate equipment replacement concepts for the screening and grit removal systems. Capital costs, as well as 20-year life cycle costs will be developed for comparison. Life cycle costs will include equipment replacement, energy usage and estimated maintenance requirements for alternative equipment. Other non-monetary considerations will be evaluated. Results of this evaluation will be summarized in a preliminary report. This evaluation will be used to chart the direction of facility improvements.

1. Mechanically Cleaned Coarse Screen

This treatment process prevents the entry of large debris into the fine screens. A single mechanical coarse screen removes larger objects from the influent flow. Material is mechanically discharged into a tray adjacent to the screen. Rags and smaller debris are manually returned into the flow stream through an access hatch located below the coarse screen. Larger debris is manually removed from the screen discharge. The coarse screen will likely be replaced with a similar mechanical screen. Strand will evaluate available replacement screens based on operating success in other facilities. Screen “bar spacings” will be reviewed to determine if there is a better opening size that will provide the required screening protection, but reduce operational requirements associated with removing more materials than are required. The West Hickman WWTP coarse screen was replaced approximately four years ago,

providing a basis for considering these mechanically cleaned screen for use at Town Branch. An 11x17 will be added following this page.

Our evaluation will address initial capital costs, as well as operation and maintenance considerations over the project life.

2. Grit Removal Equipment

Smith and Loveless Pista Grit equipment enhances settlement of grit in the two parallel grit chambers. These units appear to remove grit effectively from plant flow during most conditions. However; operation at the upper and lower flow range can lead to reduced removal efficiency and operational challenges. Alternative systems and manufacturers will be evaluated to renovate the grit chambers based on performance to enhance grit settling at design flows. Other grit removal systems, such as the Eutek Headcell System, provide greater grit removal efficiencies, but require significant channel reconstruction and larger drop in channel elevation.

3. Grit Pumps/Piping

Two Wemco grit pumps are located in a below-grade structure adjacent to the grit chambers. The pumps convey grit removed from the grit chambers through a buried pipe to the grit classifiers located on the second floor of the headworks facility. The grit pumps are of specialized construction to resist deterioration caused by the abrasive grit, and allow replacement of wear points within the pump. These pumps have suction lines that extend directly into the grit chambers, providing a positive means to remove accumulated grit. Other grit pump systems are available, such as vacuum primed suction lift pumps manufactured by Smith and Loveless that are mounted above the grit chambers. These pumps have some advantages based on their location, but rely on suction lift to remove grit.

Operators have experienced obstructions in grit piping between the grit pumps and the grit classifiers located on the upper level of the screening building. When obstructions occur, piping must be disassembled and flushed to restart grit pumping. A CCTV evaluation of this existing piping revealed significant deterioration of the piping system, particularly at bends in the piping. The existing piping extends from the grit pump dry well, under the influent flow channel, into the screening room, then up into the grit classifier room. The location of this pipe makes replacement difficult, and relining is not a reliable option. The piping must be replaced in a new orientation to address the pipe deterioration and resulting operational concerns. Several options are available to replace this pipe. Strand has experienced good success utilizing glass lined pipe to reduce the effects of grit scouring in the pipe. A new routing for the pipe will be evaluated that will include an aerial route to the headworks upper level and a route that takes piping through head space of the existing influent channel, minimizing excavation and interference requirements. Other pipe routings may be available depending on location of grit washer/classifier equipment. Potential pipe routes and equipment locations are shown on the following page.



Grit classifiers located on the second story of the headworks building.

4. Grit Washers and Classifiers

The existing grit system does not utilize grit washers prior to processing grit through the classifier. The grit classifier room does not have much available space to add washers. Manufacturers offering grit washers/classifiers with small footprints, such as the Huber COANDA System will be evaluated. Strand will also evaluate the installation of grit washers in an exterior location at the grit chambers. This would likely require a relocation of classifier equipment and truck loading to an exterior location. It is possible that a system utilizing existing classifiers/truck loading could be operated in parallel with a new system that provides grit washers, classifiers and truck loading in an exterior location. The viability of the exterior location will be considered based on impacts from cold weather.



Grit classifier room with limited floor space.

Task 3: Detailed Design

Design will be based on results from the previous evaluation. Detailed drawings and specifications will be provided for bidding and construction. Where possible, bid alternatives will be identified that will enhance competition among equipment suppliers resulting in lower project costs. Our recent Town Branch/West Hickman WWTP Electrical/SCADA/Blower project is a good example of structuring bid alternatives to maximize project funding.

1. Structural Improvements

Once process equipment alternatives are selected, structural improvements will be identified. Strand is familiar with the existing structural design based on our prior experience at the existing headworks facility, allowing us to implement cost-effective structural designs to accommodate new process equipment and piping installations. Potential structural improvements include elevated piping supports, new equipment pads, locating new equipment on existing elevated slabs and constructing new penetrations in existing slab and wall structures.

2. Electrical, Control and Instrumentation System

The electrical system will be modified to support new screening and grit removal equipment. This includes a source of 480 volt power to the new equipment, and modifications to existing control systems to coordinate the operation of grit pumps, washers and classifiers. The new systems will be coordinated with the existing plant SCADA system. New I/O points will be connected to the SCADA system through the termination cabinet located in the headworks electrical room. The SCADA system graphics will be updated to remove eliminated equipment, and add the new systems. 3-D and 2-D graphics will be modified by the construction contractor's systems integrator.



Existing headworks electrical room.

Detailed design drawings and bid alternatives allow LFUCG to minimize project costs and maximize the project budget.

Strand's knowledge of the Town Branch SCADA Control System results in consistency between new and existing systems.

3. Freeze Protection

Depending on the location of grit washers, classifiers and truck loading, freeze protection may be required. This system will be provided based on experience operating grit equipment in winter conditions.

Drawings will be developed during the final design phase. We anticipate the drawing set will include approximately 10 sheets, addressing demolition and new construction for process, structural, electrical and instrumentation disciplines.

Specifications will also be developed during the design phase. Strand will provide technical specifications, including Divisions 1 through 16. Division 0, including Parts I through IX will be based on LFUCG standard specifications. Strand is familiar with LFUCG specification requirements, and understands how these documents are interfaced with the technical specifications.

Task 4: Bidding Services

Strand will assist LFUCG during the bidding phase of this project. Strand understands LFUCG’s requirements, and is experienced providing these types of services for LFUCG projects. Bidding phase services include all items contained in the RFP.

Task 5: Construction Services

Strand will support LFUCG during the construction phase of this project. Strand has recent experience providing these services to LFUCG on other wastewater improvements projects, and has developed good working relationships with staff that complement our ability to provide these services. Construction phase services include all items contained in the RFP.

A proposed schedule is shown below. This schedule is based on the design, bidding and construction award dates contained in the RFP. The construction duration is estimated at six months based on current equipment delivery estimates. The schedule can be revised to meet other LFUCG requirements.

Strand’s experience supporting LFUCG through bidding and construction will streamline these phases of project development.

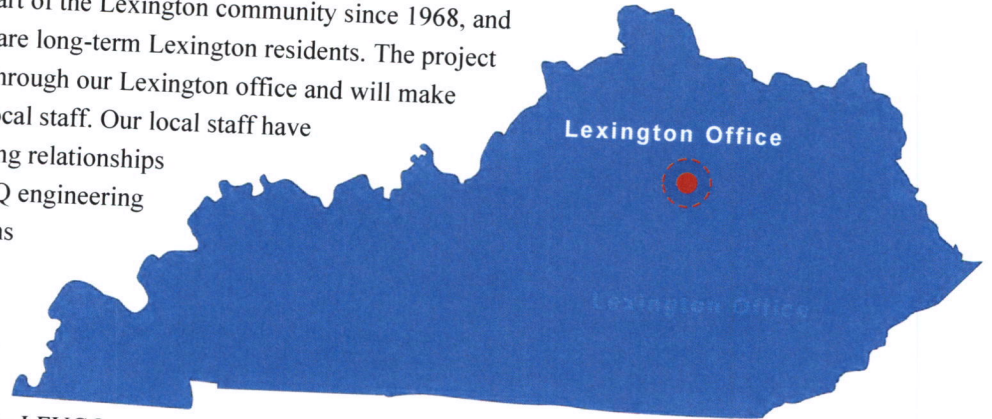


Degree of Local Employment

Our Lexington-Based Project Team will Maximize Local Employment

Our Lexington-based Project Team maximizes LFUCG's local employment objectives.

Selection of Strand for this project will maximize local employment. Strand has been part of the Lexington community since 1968, and many of our staff are long-term Lexington residents. The project will be managed through our Lexington office and will make extensive use of local staff. Our local staff have established working relationships with LFUCG DWQ engineering and plant operations personnel. These relationships enhance our ability to provide responsive service to LFUCG.



MWDBE Participation

As a firm that supports initiatives of our local government, we endeavor, where practical to incorporate MWDBE participation goals in our contracting opportunities. Toward this end, our Project Team includes EHI Consultants, Inc. (EHI), a locally based DBE firm that is well known to LFUCG, and is frequently a Strand partner. EHI's participation maximizes the Strand Project Team's local employment.





LFUCG MWDBE PARTICIPATION FORM

Bid/RFP/Quote Reference # RFP #55-2014 Investigative/Design Services for Town Branch WWTP Headworks Improvements

The MWDBE subcontractors listed have agreed to participate on this Bid/RFP/Quote. If any substitution is made or the total value of the work is changed prior to or after the job is in progress, it is understood that those substitutions must be submitted to Central Purchasing for approval immediately.

MWDBE Company, Name, Address, Phone, Email	Work to be Performed	Total Dollar Value of the Work	% Value of Total Contract
1. Ed Holmes, AICP EHI Consultants 333 West Vine St, Suite 300 Lexington, KY 40507 (859) 425-4881 holmes@ehiconsultants.org	CAD Services	\$ 7,500	10 %
2.			
3.			
4.			

The undersigned company representative submits the above list of MWDBE firms to be used in accomplishing the work contained in this Bid/RFP/Quote. Any misrepresentation may result in the termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Strand Associates, Inc. _____
Company

Matthew Ruppel
Company Representative

10/10/14
Date

Secretary
Title

* Note: Strand is committed to meeting the 10% DBE participation goal with required listed subconsultant as noted and others as may be required based on actual project assignments.

LFUCG STATEMENT OF GOOD FAITH EFFORTS

Bid/RFP/Quote # LFUCG RFP #55-2014 Investigative/Design Services for Town Branch WWTP Headworks Improvements

By the signature below of an authorized company representative, we certify that we have utilized the following Good Faith Efforts to obtain the maximum participation by MWDBE business enterprises on the project and can supply the appropriate documentation.

_____ Advertised opportunities to participate in the contract in at least two (2) publications of general circulation media; trade and professional association publications; small and minority business or trade publications; and publications or trades targeting minority, women and disadvantaged businesses not less than fifteen (15) days prior to the deadline for submission of bids to allow MWDBE firms to participate.

_____ Included documentation of advertising in the above publications with the bidders good faith efforts package

_____ Attended LFUCG Central Purchasing Economic Inclusion Outreach event

_____ Attended pre-bid meetings that were scheduled by LFUCG to inform MWDBEs of subcontracting opportunities

_____ Sponsored Economic Inclusion event to provide networking opportunities for prime contractors and MWDBE firms

_____ Requested a list of MWDBE subcontractors or suppliers from LFUCG Economic Engine and showed evidence of contacting the companies on the list(s).

_____ Contacted organizations that work with MWDBE companies for assistance in finding certified MWDBE firms to work on this project. Those contacted and their responses should be a part of the bidder's good faith efforts documentation.

_____ Sent written notices, by certified mail, email or facsimile, to qualified, certified MWDBEs soliciting their participation in the contract not less than seven (7) days prior to the deadline for submission of bids to allow them to participate effectively.

_____ Followed up initial solicitations by contacting MWDBEs to determine their level of interest.

- ✓

 Provided the interested MWDBE firm with adequate and timely information about the plans, specifications, and requirements of the contract.
- ✓

 Selected portions of the work to be performed by MWDBE firms in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate MWDBE participation, even when the prime contractor may otherwise perform these work items with its own workforce
- ✓

 Negotiated in good faith with interested MWDBE firms not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached.
- Included documentation of quotations received from interested MWDBE firms which were not used due to uncompetitive pricing or were rejected as unacceptable and/or copies of responses from firms indicating that they would not be submitting a bid.
- Bidder has to submit sound reasons why the quotations were considered unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a MWDBE quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy MWDBE goals.
- Made an effort to offer assistance to or refer interested MWDBE firms to obtain the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal
- Made efforts to expand the search for MWBE firms beyond the usual geographic boundaries.
- Other - any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include MWDBE participation.

Failure to submit any of the documentation requested in this section may be cause for rejection of bid. Bidders may include any other documentation deemed relevant to this requirement. Documentation of Good Faith Efforts are to be submitted with the Bid, if the participation Goal is not met.

The undersigned acknowledges that all information is accurate. Any misrepresentations may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and claims.

Strand Associates, Inc.
Company

Matthew Speidel
Company Representative

10/10/14
Date

Secretary
Title



Equal Employment Opportunity Policy Statement

Strand Associates, Inc.[®] is committed to a policy of equal opportunity for all employees. It is our policy to seek and employ the best qualified personnel in all positions, to provide equal opportunity for advancement to all employees, including upgrading, promotion and training, and to administer these activities in a manner which will not discriminate against or give preference to any person because of race, color, religion, age, sex, national origin, handicap, marital status, or any other discriminatory basis prohibited by state or federal law.

Strand is further committed to providing a work environment in which employees are treated with courtesy, respect, and dignity. As part of this commitment, we will not tolerate any form of harassment, verbal or physical, with regard to an individual's race, sex, national origin, or any other protected characteristics. Therefore, all employees are encouraged to bring forth any concerns or complaints in this regard to the attention of management by contacting Human Resources, Shawn Cannon, or Ted Richards.

All complaints of sexual harassment, or harassment of any kind, will be investigated promptly and, where necessary, immediate and appropriate action will be taken to stop and remedy any such conduct. Any employee found in violation of this policy will be subject to disciplinary action which could include discharge.

WORKFORCE ANALYSIS FORM

Name of Organization: Strand Associates, Inc.

Date: 10 / 21 / 14

Categories	Total	White		Latino		Black		Other		Total	
		M	F	M	F	M	F	M	F	M	F
Administrators	12	10	1						1	10	2
Professionals	235	192	36	1		1		5		199	36
Superintendents											
Supervisors											
Foremen											
Technicians	42	36	4	1		1				38	4
Protective Service											
Para-Professionals											
Office/Clerical	45	10	30		1		2	1	1	11	34
Skilled Craft											
Service/Maintenance	4	1			1	2				3	1
Total:	338	249	71	2	2	4	2	6	2	261	77

Prepared by: Audra Wells, H/R Coordinator
Name & Title



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/31/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Ansay & Associates, LLC. MSN 702 N High Point Road Suite 201 Madison, WI 53717	CONTACT NAME: PHONE (A/C, No, Ext): (800) 643-6133		FAX (A/C, No): (608) 831-4777
	E-MAIL ADDRESS:		
INSURED Strand Associates, Inc., & PEH Engineers Shawn Cannon 910 W. Wingra Drive Madison, WI 53715		INSURER(S) AFFORDING COVERAGE INSURER A: CNA Insurance Companies	NAIC # 35289
		INSURER B:	
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL/SUBR INSD/ WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> XCU Cov. Inc. <input checked="" type="checkbox"/> Bikt Contractual GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	X	5099170076	01/01/2015	01/01/2016	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000 \$ 900,000
						MED EXP (Any one person)	\$ 5,000
						PERSONAL & ADV INJURY	\$ 1,000,000
						GENERAL AGGREGATE	\$ 2,000,000
						PRODUCTS - COMP/OP AGG	\$ 1,000,000
							\$
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	X	5099170062	01/01/2015	01/01/2016	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
						BODILY INJURY (Per person)	\$
						BODILY INJURY (Per accident)	\$
						PROPERTY DAMAGE (Per accident)	\$
							\$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	X	5099170059	01/01/2015	01/01/2016	EACH OCCURRENCE	\$ 2,000,000
						AGGREGATE	\$ 2,000,000
							\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OF FICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	WC595126844	01/01/2015	01/01/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER	
		N/A				E.L. EACH ACCIDENT	\$ 1,000,000
						E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
						E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
A	Prof & Pollution Lia		AEH113974097	07/11/2014	07/11/2015	Full Prior Acts	2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

PROJECT # 2815.247 Legacy Trail Project Phase 3

The Lexington Fayette Urban County Government, its elected and appointed officials, employees, agents, boards, consultants, assigns, volunteers and successors in interest are named as additional insureds as per written contract.

Coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days prior written notice to the Certificate Holder

CERTIFICATE HOLDER

CANCELLATION

Lexington-Fayette Urban County Government
 Division of Risk Management
 200 East Main Street, Suite 925
 Lexington, KY 40507

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

EXHIBIT D

Further Description of Basic Engineering Services

and

Related Services

THERE IS NO EXHIBIT D

FOR RFP#55-2014