

PROPOSAL FOR EDA/ ARC/ CDBG HIVE ENGINEERING SERVICES CITY OF TUPELO



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May 29, 2020



THE CITY OF TUPELO
Attn: Traci Dillard
71 East Troy Street
Tupelo, MS 38804

PROPOSAL FOR EDA/ ARC/ CDBG HIVE ENGINEERING SERVICES

On behalf of Cook Coggin Engineers, Inc. (CCE), I am pleased to submit this **PROPOSAL FOR ENGINEERING SERVICES** in response to the **CITY OF TUPELO**'s request for proposals to provide Engineering Services for work related the **HIVE INDUSTRIAL PARK SEWER** project. CCE appreciates the opportunity to serve the **CITY**. CCE has a sincere desire to work with local citizens and officials in this endeavor. CCE respectfully requests that the **CITY** consider our qualifications and experience as well as our dedication to **CITY**.

CCE has extensive experience working with Mississippi Development Authority on **ARC**, **CDBG** and **EDA** funded projects, as well as other grant funding sources. Some current projects with similar scope and/or funding sources as the upcoming **HIVE INDUSTRIAL PARK SEWER** are:

1. *Corinth EDA Drainage (2020 ACEC GRAND CONCEPTOR AWARD WINNER)*
2. *Tippah ARC/SMLPCG Industrial Site Development & Access Road Improvements*
3. *Burnsville EDA Surface Water Improvements*
4. *Prentiss ARC/SMLPCG West Industrial Park Access Road & Site Improvements*
5. *Ecrú ARC Wastewater Improvements – Ashley*
6. *Itawamba ARC Fawn Grove Industrial Park Improvements*
7. *Okolona CDBG Wastewater Facilities Improvements*
8. *Monroe CDBG Homestretch Site Improvements North Property*

Cook Coggin has extensive experience in both the funding and project scope of the **HIVE INDUSTRIAL PARK SEWER** project. Incorporate that with CCE's familiarity of the **CITY**'s water and sewer system and the firm's expertise is unmatched. To that end, we extend our professional engineering services as well as our diversified engineering staff and 74 years of engineering experience and are happy to submit seven (7) copies of our **PROPOSAL FOR EDA/ ARC/ CDBG HIVE ENGINEERING SERVICES** to the **CITY OF TUPELO**.

If you have any questions or need any additional information, please call.

A handwritten signature in blue ink, reading 'W. Jess Wiygul'.

William Jess Wiygul, P.E.
Project Manager, Principal

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PROPOSAL FOR EDA/ ARC/ CDBG
HIVE ENGINEERING SERVICES
CITY OF TUPELO



QUALIFICATIONS

HISTORY

Cook Coggin Engineers, Inc. (CCE), founded in 1946, is one of the most well respected Civil Engineering Firms in North Mississippi. Headquartered in Tupelo and with regional offices in Corinth, Booneville, Fulton, New Albany, Ripley and Selmer, Tennessee—CCE has the capacity to multitask and utilize the resources readily available to pursue any civil engineering need encountered. Our resources provide engineering, emergency management, environmental, surveying, geotechnical, testing, funding procurement, strategic planning and community development services.



CCE's regional structure enables us to maintain a strong commitment to local communities while simultaneously providing access to exceptional engineering expertise. We integrate accomplished professionals with modern, innovative thinkers and support this expertise with an adept technical staff equipped with the latest in computer design technology. This distinction has contributed significantly to Cook Coggin's history of success.



LEADERSHIP

The leadership of any firm is indicative of the professionalism and work ethic of the entire organization. At Cook Coggin, we pride ourselves in our exceptional leadership team. This leadership is made up of five principal engineers who have dedicated their professional career to both the success of Cook Coggin and the individual success of its employees. These men bring their own unique set of skills and proficiency to CCE and will be available in whatever manner necessary to help promote the success of any project that CCE undertakes.



KENNETH P. GENO, JR., PE, PRESIDENT, joined the Cook Coggin team in 1986 and has 34 years of service to the firm. Kent's 36 years of experience includes two years working as a design engineer for NRCS Mississippi State Design Unit prior to joining the Cook Coggin team. His expertise includes the project management and design of all types of public works projects. Additionally, Kent serves as County Engineer for Alcorn, Benton, Prentiss, Tippah and Tishomingo County. Serving in this capacity has rendered him participation in the development of virtually every public facility or economic development project in these areas. As the firm's president, Kent is primarily located in the Corporate Tupelo Office but he also operates out of the Regional Booneville and Corinth Offices on a weekly basis in order to maintain a hands-on approach to leadership. Kent is a registered professional engineer in the State of Mississippi and Tennessee.

JACK D. FARMER, PE, VICE-PRESIDENT, joined the Cook Coggin team in 1978 and has dedicated 42 years of service to the firm. In addition to holding a Master of Science in Environmental Engineering, Jack is proficient in various diversified public utilities endeavors but his prime experience and expertise surrounds municipal water and sewer infrastructures, including the design, construction, and operation/maintenance of numerous water and wastewater treatment facilities. Jack is accomplished in concept development, project management, design, development, and construction management of potable water systems, wastewater systems in municipal and industrial application and park/recreation facilities as well. Located in Cook Coggin's Corporate Tupelo Office, Jack serves as mentor and assists the Cook Coggin team in any capacity necessary. Jack is a registered professional engineer in the State of Mississippi.

JOHN MARK WEEDEN, PE, PRINCIPAL, has been employed with Cook Coggin since 2007 and has been involved with numerous projects over the past 13 years. Mark's 26 years of experience includes working as an engineer for MS State Department of Health and Natchez Trace Parkway. He also has a background in Construction Engineering which includes owning and operating his own construction company. Mark works intimately with North Mississippi Communities and Water Associations throughout daily and is very proficient in this area of expertise. Mark's experience includes conceptual planning, field layout, project management, design and construction oversight for water systems, sanitary sewer systems and utility relocations. Mark is a Registered Professional Engineer in the State of Mississippi and Alabama.

JAMES MATTHEW ESTES, PE, PRINCIPAL, has been employed with CCE since 2004 and has been involved with numerous projects over the past 16 years. Located in CCE's Regional Corinth Office, Matthew has worked closely with North Mississippi Communities throughout his tenure with CCE. Matthew's work experience includes project management, planning design and construction oversight for municipal water, wastewater, gas, roadway and drainage projects. He has been involved with an array



of planning teams over the years to assist in the development of local infrastructure and growth. Matthew is a Registered Professional Engineer in the State of Mississippi and Tennessee, a Certified Floodplain Manager in the State of Mississippi, and has certification in the National Highway Institute Program for the Safety Inspection of In-service Bridges.

WILLIAM JESS WIYGUL, PE, PRINCIPAL, has been employed with CCE since 2009 and has been involved with numerous projects over the past 11 years. Located in CCE's Tupelo office, Jess works closely with North Mississippi communities, offering his expertise, which includes project management, planning, design and construction oversight for municipal water and wastewater systems, industrial site design and building improvements, as well as a wide range of airport infrastructure projects. He has been involved with an array of planning teams over the years to assist in the development of local infrastructure and growth. Jess holds bachelor's and master's degrees in Civil Engineering from Mississippi State University and is a Registered Professional Engineer in the states of Mississippi and Tennessee.

ENGINEERING TEAM

In addition to our principals, the engineering staff includes eight (8) registered professional engineers, four (4) registered engineer interns, and three (3) civil engineer staff. Additionally, 2 of our engineering staff hold their master's degree in civil engineering and 1 their master's in business management.

As each project moves to the construction phase, CCE provides construction engineering field representatives and laboratory technicians to ensure that the client secures the desired finished product. This allows CCE to provide a complete package of engineering services to its clients in order to complete a project from the planning stages all the way through design and construction.



The team members were selected not only for their technical mastery, experience, and knowledge, but also for their availability to work on the project. CCE believes that our team's regional knowledge, experience and ingenuity will provide an unmatched level of expertise.

Our team consists of an engineering and professional staff that is highly skilled in the areas central to the construction of a well-designed infrastructure project. These areas



include planning & design, construction administration, construction engineering & inspection, material testing & product evaluation, and public relations. Each team member will report to and receive guidance from the project manager so that throughout the entire process, their efforts will be technically sound and responsive to the needs of the client.

Cook Coggin currently employs approximately 68 persons, which includes the engineering personnel, technical support, field support and clerical support necessary to provide clients with exemplary engineering services.

PROJECT MANAGER

The Project Manager is the key individual in the management process. This person is responsible for overseeing all aspects of the projects, and is the primary contact between the Owner and the project team. The Project Manager will review the work in progress and will see that the project team has sufficient resources to accomplish their assigned tasks within the budget and time constraints of each portion of the project. Cook Coggin Engineers, Inc. will assign project management duties to **Jess Wiygul, PE**.

WILLIAM JESS WIYGUL, PE, PROJECT MANAGER, has been a part of the CCE team since 2009. Jess holds a bachelor's and master's degree in Civil Engineering and is a Licensed Professional Engineer in the State of Mississippi and Tennessee. Jess has worked closely with the City of Tupelo's Water & Light Department on numerous projects for the City, assisted the City on economic development projects and aided in the receipt of funding from governmental agencies such as the Mississippi Development Authority, the Economic Development Association, and the Environmental Protection Agency. His experience includes the design and cost estimation of water treatment plants, design and cost estimation of sewer system improvements, wastewater treatment facility improvement cost estimation and design, design, cost estimation for booster system rehabilitation, construction estimation and value engineering for various construction projects, scheduled and organized wastewater treatment plant construction, and served as manager for a county NPDES permitting program.. Jess has substantial experience in both water and wastewater treatment facilities and has worked with funding agencies such as the MDA, EPA, EDA, the Mississippi Department of Environmental Quality (MDEQ), and the United States Department of Agriculture (USDA) Rural Development for several years. Jess also has ample experience on grant funding applications and engineering services.

The following is a non-comprehensive listing to highlight Jess's Project History with the City of Tupelo.



COOK COGGIN ENGINEERS, INC.



HIVE ARC Water Booster & Tank
HIVE Industrial Park Water Line
TWL TAG Water
SRF FY20 Sewer \\\nSRF FY17 WW Collection System Imp
SRF 2015 WWTF Chemical Sys Add
SRF FY14 Deer Park
SRF FY14 Area 5A
SRF FY14 Area 5B
SRF FY14 Area 5C
SRF FY 13 Area 1
SRF FY 13 Area 2N

SRF FY 13 Area 2S
SRF FT 13 Area 3
Deer Park Sewer 2013
Hwy 45 Sewer Phase 2
Haven Acres Sewer Rehab
Tom Watson Sewer Rehab
Bickerstaff Debeau PS Replacement
Garrison S/D Sewer Imp
FY 2015 CDBG Sewer Imp
FY 2015 CDBG Daybrite Roof Imp
TWL Booster Station Additions
Wondura PS Replacement

QUALIFICATIONS OF KEY PERSONNEL

JOHN MARK WEEDEN, PE, PROJECT MANAGER/ PRINCIPAL, as mentioned earlier in his capacity as Principal for CCE, Mark's expertise in water, sewer and wastewater projects is significant. Additionally, Mark, along with Jess, works hand in hand with the City of Tupelo's Water & Light Department on a daily basis. His knowledge of the City's needs and goals in this area is unmatched. He will assist Jess in the management of the proposed project.

DAVID LONG, PE, PROJECT ENGINEER, has been a part of the CCE team since January 2008 and graduated from Mississippi State University with his Bachelor of Science degree in Civil Engineering in May of 2010. In David's 9 years of as a project engineer, his primary work efforts include over \$20 Million of public water and wastewater infrastructure improvements. From project conception to construction completion, David remains heavily involved with his projects working closely with the Owner providing technical assistance while ensuring the Owner's goals and needs are fulfilled. David has a vast experience with federal and state funding applications. Even though the grant/loan funding process has become extremely competitive, David has been successful in securing 28 grant/loan applications providing critical funding assistance to project Owners. David's resume, providing a detailed description of David's experience and expertise is included in the Appendix of this Engineering Proposal.

NICK BRAWNER, PE, PROJECT ENGINEER, has been employed with CCE since 2010. His work experience includes design, construction engineering, rainwater drainage, sanitary sewer collection and pumping, sanitary sewer rehabilitation, water distribution, water quality, water rehabilitation, gas distribution, hydraulic analysis, traffic simulation modeling for roadways and roadway intersections with and without signalization, cost estimating, specifications, and construction plan preparations. Nick has extensive experience with water system improvements and surface water treatment



facilities improvements. Nick, a native of Alcorn County, resides in the Biggersville area; he is a licensed Professional Engineer in the state of Mississippi.

TIMOTHY AGNEW ROBERTS, PE, PROJECT ENGINEER, has been employed with CCE since 1995. Tim's work experience includes a wide variety of public utilities including municipal water and sewer, and construction/maintenance with the telephone industry. Other experience includes water system design, sanitary sewer layout and design, sewer lift station and pressure sewer design, and highway/bridge construction surveying and inspection. Wastewater experience includes project planning and cost estimating, collection system design, pumping station and pressure sewer design, construction contract administration, sewer rehabilitation using conventional and pipe bursting methods. Tim is a registered professional engineer in the State of Mississippi. Tim's primary project responsibilities are the technical design of any water and/or sewer improvements that might be required.

JIMMY SPENCER, RPG, ENVIRONMENTAL COORDINATOR, has over 36 years of experience with environmental impact assessments and coordination. In addition to his extensive environmental background, he has been responsible for lead project management on numerous environmental projects as well as being the supervisor of an AASHTO accredited materials testing laboratory. Jimmy has extensive experience in solid waste permitting, landfill expansion, landfill gas to energy, and leachate wastewater management. Services include solid waste facility siting, design, permitting, compliance, and certification for subtitle D landfills, rubbish sites, and transfer stations, as well development of closure/post closure plans. In addition, Jimmy has extensive experience in the developing and updating regional solid waste management plans, oversight of geologic investigations for siting feasibility and annual certification reports submitted to the Mississippi Department of Environmental Quality and US Environmental Protection Agency. His experiences with working with governing local, state, and federal entities in the form of permitting requirements are insurmountable.

DOUG LYTAL, PLS, CET, SENIOR DESIGNER, with 35 years of experience in Land Surveys, Drafting, and Design, he will be the supervisor overseeing all of the Right-of-way coordination, land surveys, property descriptions, and field work requirements. Mr. Lytal has overseen all of the aforementioned aspects of drafting design and surveying for CCE's projects since 1984 and has a supporting staff that is second to none. Doug's responsibilities will include oversight of all survey and field work associated with this project.

GARRETT DENDY, PS, GIS SPECIALIST, joined the Cook Coggin team in 2009 and is the head of our GIS Operations. Garrett uses GIS systems to create maps, graphs, and databases for counties, cities, and municipalities such as water, sewer, and gas systems, tax parcels, and various other functions associated with Geographic Information Systems. Included in his duties are collecting and verifying GIS mapping



and/or survey grade field data. Garrett also conducts flood mitigation such as— floodplain management, permitting, certificate evaluation, and/or flood damage assessments. Garrett is a registered Professional Surveyor in the State of Mississippi. He also serves as Inspector for water tank projects including sanitary, structural integrity, and cathodic protection. Garrett's tasks for this project will include control of the GIS data gathering and mapping. Garrett is also licensed to fly unmanned aerial systems (UAS) for photography and topography.

BRICE WILBANKS, LABORATORY MANAGER, has worked for CCE since 2010. Brice coordinates with laboratory technicians in order to maintain communication with field inspectors ensuring all material to be tested is received in the lab. Brice's experience includes performing bridge end bores, center line bores, concrete inspection and foundation investigations. Brice also has experience in project layout, surveying, and staking for various types of roadways, bridges, and street projects throughout north Mississippi. He is experienced with all of the equipment used by CCE to gather field data. Brice served as an intermediary between the contractor and the design team for several years before assuming the role of Laboratory Manager. During that time, his primary function was construction observation and materials compliance inspection. Brice conducts necessary testing on samples using MT, AASHTO, & ASTM, methods within a State Certified Laboratory.

CHRIS WITT, SR DESIGNER, has been a member of the Cook Coggin Team for 23 years. During this time, he has developed Water and Wastewater Facilities Concepts, Water Improvements Design, Water Line Relocations, Elevated Storage Tanks, Transmission Lines, and Pump Arrangements. Chris has also developed the computer drafting and design of construction plans for numerous major construction projects. In his role for this project, Chris will be processing electronic field data, performing the computer aided drafting & design and development of construction drawings and permits.

ROBBY SANDLIN, CONSTRUCTION ADMINISTRATOR, began working for Cook Coggin in 2007. Over his 13 years of service, he has had the opportunity to observe and inspect numerous job sites. Robby has worked very closely with the City of Tupelo's Water & Light Department (TWL), assisting in easement acquirement for a variety of TWL projects. His experience includes but is not limited to the inspection of numerous sewer and State Aid road projects, rural water systems, industrial park utilities, and sewer rehabilitation projects throughout North Mississippi. His primary function for this project will be easement assistance, CCE liaison and construction observation & inspection.



JAMES WOODALL, BUSINESS DEVELOPMENT, joined CCE in February 2010 and has 10 years of service with the firm. James is responsible for procurement of potential business advancement contingencies while simultaneously serving in a business development capacity for Lee, Monroe, Chickasaw, Union, and Pontotoc Counties in Mississippi. James also serves several municipalities in throughout North Mississippi and is the firm's central point-of-contact in the Mississippi Delta region. His responsibilities include—delivery and execution of legal and professional documents required for conducting business, collaborating with local officials and business professionals regarding adept matters imperative to the prosperity of the community, and serving as intermediary on a proficient level for those entities represented by CCE. James also facilitates the perpetuation of current business & acquiring new business within the populace.

EXPERIENCE

For 74 years, CCE has been providing multi-disciplinary engineering services such as funding procurement, planning & design, geotechnical, environmental, surveying and construction of an array of projects, including:



- Drinking Water Infrastructure
- Water Supply & Treatment
- Water Storage & Distribution
- Rate Studies
- Hydraulic Analysis
- Wastewater Infrastructure
- Advanced Treatment Facilities
- Collection Systems & Pumping
- Collection System Rehabilitation
- Environmental Assessments
- Feasibility Studies
- Utility Relocations

CCE has the experience, expertise and manpower to facilitate comprehensive engineering services related to any civil engineering project. The firm's provincial structure enables it to maintain a strong commitment to local communities while simultaneously providing access to exceptional engineering expertise. This involves integrating our professional team with the latest technology in a partnership that incorporates the Client's sophistication with our professionalism in a manner where everyone prevails.

Cook Coggin Engineers, Inc., has extensive experience working with municipalities and other government entities on a multitude of civil engineering projects. The following pages contain examples of project experience relevant to municipal engineering services.

Wastewater/Sewer Systems Essential to the advancement of a municipality is the wastewater collection and treatment system. CCE personnel have been involved with the design and construction of numerous wastewater collection systems and treatment facilities, of which ten (10) were new wastewater treatment facilities. Included in this experience is numerous incremental improvement upgrades and additions throughout our area of operation. In addition to the design/construction of new systems, CCE has also been involved with the rehabilitation and relocation of existing sewer systems. CCE personnel have maintained good working relationships with the appropriate divisions of the Mississippi Department of Environmental Quality (MDEQ) to insure that all of the applicable state/federal regulations and requirements are met to the satisfaction of these governing agencies.

Potable Water System Projects Potable water treatment/distribution systems are a basic requirement for every municipality and county unit of government. The system's integrity as to the provision of safe drinking water and adequate fire protection are equally important to the residents of the municipality and/or county. Typical projects involve an analysis of the existing distribution system and then recommendation of one or more of the following improvements to meet projected demands on the system: (1) upgrading distribution lines to provide additional flow and/or pressure (U S), (2) adding either an elevated or ground storage facility to provide additional capacity to the system (ES/GS), (3) adding a production well to provide additional capacity to the system (PW), or (4) adding some level of treatment for the water at the well source (WT). In most cases, these improvements are necessary in order for the water system to meet minimum system requirements of the Mississippi State Department of Health (MSDH).

Water Supply Planning Studies In addition to designing and maintaining water distribution systems, CCE has also provided engineering services for the planning functions of water suppliers. One such study, completed for the Tombigbee River Valley Water Management District, involved the development of a water supply plan for Tishomingo, Prentiss and Alcorn Counties. The study provided recommendations concerning a regional water supply and treatment system for the three-county study area.



Cook Coggin Engineers, Inc. is proud of its ability to provide award winning, notable work to its clientele. The following pages provide examples of these accomplishments by describing recent water and wastewater projects that received such recognition.

2020 MS ACEC GRAND CONCEPTOR AWARD WINNER

(ACEC – American Council of Engineering Companies)

2019 MML Municipal Excellence Award Public Works < 10,000

City of Corinth's EDA Drainage Improvements

Economic Development Award (EDA) Number 04-79-06708

Role: Primary Design Engineer

Lead Engineer: James Matthew Estes, PE / Kyle Strong, PE

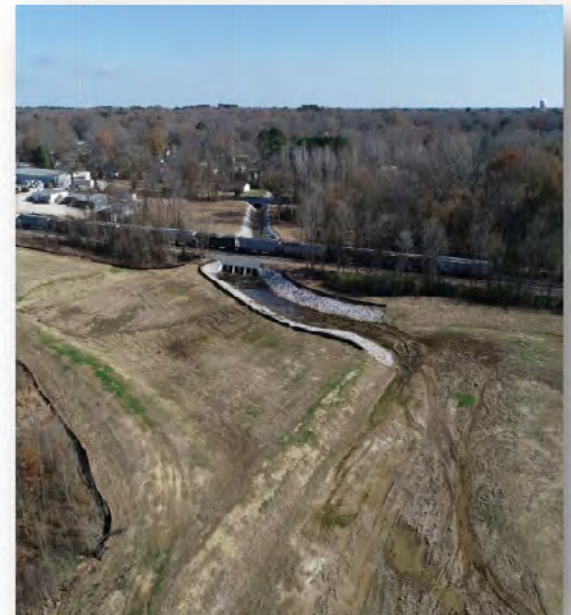
Owner: City of Corinth, Alcorn County, MS

Initiation Date: 2013

Completion Date: 2019

In the wake of devastation from the impact of a 500-year storm event, the City of Corinth endeavored to find a solution to the recurring flooding issues seen in two specific areas within the City—the Tishomingo Basin and the Oak Lane Basin.

Enlisting the assistance of Cook Coggin Engineers, Inc., they began devising a plan to alleviate the flooding by providing an outlet for water overflow during periods of heavy rain. Design of these improvements included improved channel sections, surface water detention, improvements to piping systems, and installation of box culverts to provide adequate opening for receipt of streams. Steel encasements across the Kansas City Southern Railway were designed to allow a 100-year flow across the railway and relieve upstream flow congesting which had been a source of the flooding.



Understanding that funding is critical to project implementation, Cook Coggin worked with the Economic Development Authority (EDA) to secure funding through the Economic Adjustment Program, EDA provided grant funding of over \$4,000,000 to the City in April of 2013. In August of 2014, the Mississippi Development Authority (MDA) awarded the City \$1,000,000 CAP loan.

With funding secured and a clear design path, the project was well underway. In September 17, 2017, bids were received for the project. By January of 2018, construction had begun. In May of 2019, Contract 1 and 2 were complete—but not before the City was hit by a 100-year storm event in February 2019, near the conclusion of construction activities. The results were astounding. IT WORKED. The drainage improvements were tested and passed with flying colors, providing another testament to CCE's ability to perform beyond expectations.

2014 MS Water Association Wastewater Facility of the Year
City of Tupelo Wastewater Treatment Facilities (SRF #C280 885-02)

Role: Primary Design Engineer

Lead Engineer: Jack Daniel Farmer, PE

Owner: City of Tupelo, Lee County, MS

Initiation Date: 2010

Completion Date: 2014

Cook Coggin Engineers, Inc. (CCE) was selected by the City of Tupelo to provide professional engineering services for the Wastewater Treatment Facilities Improvements in Tupelo, Mississippi. The advanced wastewater treatment facility underwent extensive renovation and upgrading for future upgrading and anticipation of more stringent environmental restraints.



In anticipation of biological treatment units and the need for increased flows in the future, the advanced waste treatment biological components were replaced with an oxidation ditch facility adapted for nutrient removal capabilities. In order to provide for anticipated future needs the biological treatment components were designed as a multi-train system with a rated capacity of 14.0 million gallons per day (MGD). The initial constructed capacity was 10.5 MGD. The chlorination / de-chlorination disinfection system was also replaced by a system with a rated capacity of 14.0 MGD.

Construction cost for this project totaled \$22.4 million.

Scope of services included:

- Preliminary Treatment includes Screening and Grit Removal
- Three (3) 3.5 MG Aeration Basin
- Three (3) 130' Diameter Clarifiers
- Return Sludge Pumping Station with Centrifugal Pumps
- Disinfection by Chlorination
- Post Treatment Cascade Aerator
- Plant Influent and Effluent Flow Monitoring
- Storm Flow Equalization
- Sludge Disposal by Lagooning

2014 ACEC People's Choice & 2014 ACEC Engineering Honor Award
2013 MML Excellence Award Overall Winner Population >10,000

Clifford G. Worsham Surface Water System

Role: Primary Design Engineer

Lead Engineer: Jack Daniel Farmer, PE

Owner: City of Corinth, Alcorn County, MS

Initiation Date: 2005

Completion Date: 2013

Cook Coggin Engineers, Inc. joined the City of Corinth in achieving a 35 year goal upon completion of the Clifford G. Worsham Surface Water System in April 2013—a vision that began in 1978 for City of Corinth. The \$49.1 million dollar project was a vision initiated when the City became aware that the City's public water supply was not a long-term reliable water source. The City of Corinth/CCE



team worked closely with the Tennessee Valley Authority in what became a collaborative effort between the three entities to develop a long-term sustainable water source to serve the citizens and industries of the City of Corinth and Alcorn County.

In 2003, the Corinth Utility Commission adopted a resolution integrating a regional concept to the surface water system. This Regional Surface Water Concept was developed for the City & Alcorn County with regional capabilities to provide treated water for adjacent counties, water associations, municipalities, & communities for industrial prospects & residential use.

The Surface Water System was comprised of three projects beginning with the construction of the Water Treatment Plant. The second project, Finished Water Transmission Line, included the construction of 7.25 miles of 36" iron ductile pipe to Corinth and 4 miles of 36" and smaller distribution lines. This project placed distribution lines along US Highway 72 rights-of-way extending from the treatment plant to the City of Corinth. The third and final project was the Raw Water Pumping and Transport, which included an Intake Structure located on the Tennessee-Tombigbee Waterway, raw water pumping, and 8.25 miles of 36" raw water line to the treatment plant.

The Raw Water Intake Structure is designed for an ultimate supply capacity of 16.5 million gallons per day (mgd) with an initial pumping capacity of 10 mgd. Twelve miles of 36" water transmission line delivers treated water from the Treatment Facility to the City of Corinth's Distribution System. This project, funded through Mississippi's State Revolving Loan Program, illustrates Corinth's continued vision to provide a long-term, dependable water supply vital to the economic growth of Northeast Mississippi.

CURRENT WASTEWATER PROJECTS

CURRENT WASTEWATER TREATMENT FACILITY (WWTF) PROJECTS

The following projects are still in the design engineering phase of development and have not yet been bid for construction.

<u>Project Title</u>	<u>Owner</u>
CDBG 2019 WWTF Improvements	City of Okolona
CDBG 2019 WWTF Improvements	Town of Vaiden
ARC SMLPCG 2018 WWDFI	Town of Mantachie
USDA WWTF Improvements	Town of Como
SRF WWTF Improvements	Town of New Houlka
SRF WWF Improvements FY20	Town of Tutwiler

CURRENT WASTEWATER COLLECTION SYSTEM PROJECTS

The following projects are still in the design engineering phase of development and have not yet been bid for construction.

<u>Project Title</u>	<u>Owner</u>
USDA Collection Improvements & Rehab	Town of Como
Central Pump Station Replacement	City of Tupelo
CDBG 2019 Wenasoga Rd Swr Imp	City of Corinth
CDBG 2019 Sewer Improvements	City of Verona

The following projects are currently under construction.

<u>Project Title</u>	<u>Owner</u>
ARC 2018 Tri-State Wastewater Facilities	Tishomingo Co. Board of Supervisors
CDBG 2018 WW Collection System Ext	Town of Ecu
CDBG 2018 WW Collection Imp & Ext	Town of Belmont
CDBG 2018 WW Collection System Rehab	Town of Jumpertown
CDBG 2018 WWTF Improvements	Town of Shaw
CDBG 2018 WWTF Improvements	Town of Mound Bayou
CDBG 2017 WW Collection System Rehab	Town of Jonestown
CDBG 2017 WW Collection System Rehab	City of Iuka
SRF FY17 WW Collection System Imp	City of Tupelo
MDOT Utility Relocation	Town of Tutwiler
USDA Water & Sewer Improvements	City of Durant

WASTEWATER TREATMENT FACILITIES (WWTF) DESIGNED BY CCE

<u>WWTF Owner</u>	<u>Capacity</u>
City of Corinth	6.0 MGD
City of Booneville	2.0 MGD
City of Hamilton, AL	1.0 MGD
City of Houston	1.0 MGD
City of Meridian	15.0 MGD
City of New Albany	2.5 MGD
City of Pontotoc	1.5 MGD
City of Saltillo	1.0 MGD
City of Tupelo	14.0 MGD
Tishomingo County Sewer District	0.2 MGD

RECENT WASTEWATER PROJECTS

RECENT WASTEWATER TREATMENT FACILITY (WWTF) PROJECTS (PARTIAL LISTING WITHIN THE PAST 5-10 YEARS)

<u>Project Title</u>	<u>Owner</u>
CDBG 2018 WWTF Improvements	Town of Mound Bayou
CDBG 2016 WWTF Improvements	Town of Tutwiler
SRF 2015 WWTF Imp Chemical Sys Add	City of Tupelo
CDBG 2015 WWTF Improvements	Town of Como
DRA 2014 WWTF Bypass	Town of Como
CDBG 2014 WWTF Improvements	Town of Durant

**RECENT WASTEWATER COLLECTION SYSTEM PROJECTS
(PARTIAL LISTING WITHIN THE PAST 5-10 YEARS)**

<u>Project Title</u>	<u>Owner</u>
ARC 2018 Sewer Extension	Town of Myrtle
Garrison Road Sewer Rehab	City of Tupelo
CDBG 2016 WW Extension	Town of Ecu
CDBG 2016 WW Collection Extension	Town of Hickory Flat
CDBG 2016 WW System Improvements	Town of Blue Mountain
CDBG 2016 Sewer Rehab	City of Holly Springs
CDBG 2015 Sewer Improvements	Town of Blue Mountain
CDBG 2015 CCTV & Rehab	Town of Shaw
ARC 2015 PS Renovation	City of Verona
CDBG 2014 Sewer System Improvements	Town of Myrtle
SRF FY14 Deer Park	City of Tupelo
SRF FY14 Area 5A	City of Tupelo
SRF FY14 Area 5B	City of Tupelo
SRF FY14 Area 5C	City of Tupelo
SRF FY14 Area 6	City of Tupelo
SRF FY13 Area 1	City of Tupelo
SRF FY13 Area 2N	City of Tupelo
SRF FY13 Area 2S	City of Tupelo
SRF FY13 Area 3	City of Tupelo
Deer Park Sewer 2013	City of Tupelo
CDBG 2013 Sewer Improvements	Town of Blue Mountain
WW Disposal Facilities Rehab	Town of Mound Bayou
SRF FY13 Sewer Rehab	City of Nettleton
SRF FY13 Sewer Rehab	City of Okolona
SRF/ CDBG 2011 Sewer System Evaluation	City of Corinth
Hwy 45 Sewer Phase 2	City of Tupelo
Haven Acres Sewer Rehab	City of Tupelo
Tom Watson Sewer Rehab	City of Tupelo
Bickerstaff Debeau PS Replacement	City of Tupelo
Prentiss Co. Wheeler Sewer Phase II	Prentiss Co. Board of Supervisors
ARRA/ SRF Pump Station Replacement	Town of Myrtle

THE FOLLOWING PAGES CONTAIN PROFILES ILLUSTRATING CCE'S WASTEWATER PROJECT EXPERIENCE.

Sewer Improvements FY 2014 – Area 5C West Tupelo
SRF #C280 855-06 / CDBG #1132-15-366-PF-01

Owner: City of Tupelo, Lee County, MS

Role: Primary Design Engineer

Lead Engineer: William Jess Wiygul, PE

Initiation Date: 2014

Completion Date:

This project, funded through the Environmental Protection Agency's State Revolving Fund (SRF) and with FY 2015 Community Development Block Grant (CDBG) monies administered by the Mississippi Development Authority (MDA), consists of the installation of 11 sewer lift stations, approximately 26,200 feet of gravity sewer line and approximately 18,000 feet of pressure sewer line to serve approximately 97 new customers in the west Tupelo annexed area 5C. This project is still under planning and development, with an estimated construction cost of \$4 million. Environmental due diligence includes submission of an Environmental Assessment (EA) to USACE, coordination with USACE and Section 404 permitting.



The scope of work for this project is as follows:

- Preliminary Assessment & Planning
- Procurement of Funding
- Adherence to LPA Procedures and Requirements
- Environmental Due Diligence
- Hydrological & Hydraulic Modeling
- Design Engineering Services
- Construction Engineering Services
- Testing Services
- Surveying Services

Monroe CDBG Homestretch North Site Improvements
CDBG No. 1135-18-048-ED-01

Role: Primary Design Engineer

Lead Engineer: Kyle Strong, PE /David Long, PE

Owner: Monroe County, MS

Initiation Date: 2016 – Initiated Preliminary / February 2019 – Began Construction

Completion Date: February 2020

HomeStretch

This project consisted of Site Improvements, Sewer Service Plan, Water Service Plan and Fire Suppression at Homestretch Furniture, located in Nettleton, Monroe County, MS. Homestretch is planning to construct a new facility that would be adjoined to the existing facility. This project consisted of developing the site to a condition where this new facility could be constructed.

Project scope included:

- Removal of existing on site material, which included very large pieces of concrete and a large fabricated structure of shipping containers, removed from the site and properly disposed of in an offsite facility
- Existing material excavated and disposed of off the project
- Quality building fill material was hauled in to construct a building pad
- A new water line and sewer line were constructed for restroom facilities in the new building.
- Environmental due diligence
- Erosion control measures
- Improvements to truck logistics

Preliminary Planning for this project began in 2016 and it was advertised for bids in November 2018. Construction began in February 2019 and the final punch list was completed in February 2020.

Final Construction cost for this project was \$1,271,132.05.



Ecru ARC Ashley Water & Sewer Improvements

Role: Primary Design Engineer

Lead Engineer: David Long, PE

Owner: Town of Ecru, Pontotoc County, MS

Initiation Date: 2019

Completion Date: PS&E Stage May 2020



Due to a 370,000 sqft expansion of Ashley Furniture's Distribution Center, the Town of Ecru was in need of improving their water distribution and wastewater collection infrastructure to accommodate Ashley Furniture's proposed growth. The Town partnered with Cook Coggin Engineers in an endeavor to procure grant funding from the Appalachian Regional Commission (ARC) in order to secure the monies necessary to proceed with the improvements.

In order to accommodate Ashley Furniture's Expansion Project, the Town of Ecru proposed to abandon and/or relocate the following existing utilities.

- 6" Water Line
- 8" Gravity Sewer Line & Manholes
- 200 GPM Duplex Pump Station

The 6" Water Line will be abandoned in place and relocated to accommodate Ashley Furniture's water service needs. The new location of the water line was determined during the design phase based on Ashley Furniture's building construction plans. The 8" Gravity Sewer Line will be abandoned in place. The 200 GPM Duplex Pump Station will be relocated to accommodate the expansion. Approximately 220 feet of new pressure sewer line will be needed to facilitate the relocation of the pump station.

The Town of Ecru also plans to extend their water distribution piping to Ashley's new Guard Shack by constructing approximately 1,900 linear feet of 6" water pipeline. Wastewater service will be provided to Ashley's new Truck Logistics site by constructing approximately 480 linear feet of 8" gravity sewer pipeline.

Planning and Design for this project began in 2019 and it is scheduled to be advertised for bids by July 2020.

Construction cost for this project is estimated at \$284,600.



SITE IMPROVEMENTS FOR H.M. RICHARDS EXPANSION CDBG NO. 1131-14-041-ED01

Role: Primary Design Engineer

Lead Engineer: Mark Weeden, PE/ Carrson Neal, PE, PLS

Owner: Lee County Board of Supervisors

Initiation Date: 2015

Completion Date: 2017

In 2015, Cook Coggin began working with the Lee County Board of Supervisors in the funding procurement, planning, development & design of a \$1.5 million dollar site and infrastructure improvement project for the expansion of the H. M. Richards facility in the North Lee Industrial Park. The project includes 3 separate types of work—Part “A” Water Facilities, Part “B” Sewer Facilities, & Part “C” Access Road.



Water improvements included:

- new pipeline
- connections to existing pipeline
- fire service meter arrangement
- reduced pressure backflow preventer arrangement

Sewer facilities improvements included:

- 100 GPM sewage lift station, including all site work, fencing, access drive, electrical and piping
- new pressure sewer line
- gravity sewer line
- manholes
- sewer line connection to existing manhole
- erosion control

Access road improvements include:

- new access road to the existing facility
- striping & signing of new roadway
- drainage improvements including laying pipes under roadway & poured ditch
- erosion control measures



Bids were received for this project on November 5, 2015 and the notice to proceed was issued for December 14, 2015. The project should be completed by the fall of 2016.

Total construction costs for this project are approximately \$1,380,000.00.

SITE IMPROVEMENTS FOR MISSISSIPPI SILICON

Role: Primary Design Engineer

Lead Engineer: Carrson Neal, PE/ Tim Roberts, PE

Owner: Tishomingo County Board of Supervisors

Initiation Date: 2014

Completion Date: 2015

In February 2014, Cook Coggin Engineers, Inc. was selected by the Tishomingo County Board of Supervisors to provide engineering services for the County's Mississippi Silicon site improvement project. Mississippi Silicon was the first new silicon metal production facility to be built in the United States in 40 years. This project consisted of the construction of water facilities, sewer facilities, on-site potable water, on-site fire protection, on-site sewer, on site natural gas, and access road improvements.

The project was advertised for bids in late July 2014 and bids were received on September 2nd, 2014. The low bid Contractor was awarded a \$2,431,541.50 contract and construction was scheduled to begin on or before October 22nd, 2014. The work was completed in April 2015.

A secondary project was initiated in February 2015 for Additional Site Improvements for Mississippi Silicon. This project consisted of construction of a 5,200 SF Clear Span Coal Storage Fabric Structure including building slab, site lighting including thirteen (13) single floodlight poles and two (2) 90' high mast lights, approximately 950 Tons of Hot Mix Asphalt and miscellaneous and appurtenant items.

The project was advertised for bids the end of March/ early April 2015 and bids were received on April 27, 2015. The low bid Contractor was awarded a \$628,000.00 contract on May 7th, 2015 and construction was scheduled to begin on or before May 18th, 2015. The work was completed in the fall of 2015.

The total cost for the construction of these projects was approximately \$3,060,000.00.

Scope of services included:

- Preliminary engineering and design
- Construction engineering
- Surveying
- Environmental due diligence
- Testing
- Contract Administration



CURRENT WATER PROJECTS

CURRENT WATER SYSTEM IMPROVEMENT PROJECTS

The following projects are still in the design engineering phase of development and have not yet been bid for construction.

<u>Project Title</u>	<u>Owner</u>
SRF 2020 Emergency Water	Town of Lambert
SRF 2020 WSI	Town of Friars Point
CDBG 2019 WSI	City of Durant
USDA Water Dist Improvements	City of Nettleton
USDA Water 2018	Town of Crenshaw
CDBG 2018 WSI	Town of Burnsville
EDA Burnsville Connect to Corinth SWTF	City of Corinth/Town of Burnsville
2019 Water System Asset Evaluation	Town of Michie, TN
N Benton Co. WA Arsenic Removal	North Benton Water Association
EST Repair and Repaint	City of Tupelo
USDA Elevated Storage Tank Rehab	Town of Como
HIVE Water Improvements	City of Tupelo
Water Distribution Improvements	City of Saltillo
USDA WSI	Cason Water District, Inc.
USDA WSI	Town of Shaw
Prentiss-Alcorn Water Asn WSI	Prentiss-Alcorn Water Association
NEMRWSD South Lateral Connection	City of Nettleton
Oktoc USDA WSI	Oktoc Water Association

The following projects are currently under construction.

<u>Project Title</u>	<u>Owner</u>
CDBG 2018 WSI	Town of Falkner
Walker Switch Water MDOT Utl Relocation	Walker Switch Water Association
USDA Contract "A" - Well & "B" - Distribution	Mooreville-Richmond Water Asn
Tupelo Water & Light - N Lee Co Wtr Asn	City of Tupelo
NEMRWSD Raw Water Supply Fac – Contract A	NE MS Regional Wtr Supply Dist.
NEMRWSD Raw Water Supply Fac – Contract B	NE MS Regional Wtr Supply Dist.
Subsystem #25 SWSI	North Lee Water Association
USDA WSI	Ingomar Water Association
SMLPCG 2018 WSI	City of Verona
TAG Water	City of Tupelo

RECENT WATER PROJECTS

RECENT WATER SYSTEM IMPROVEMENT (WSI) PROJECTS (WITHIN THE PAST 5-10 YEARS)

<u>Project Title</u>	<u>Owner</u>
PUL Tank Repair & Repaint	PUL Alliance
EST R&R Green, Broadway & Mitchell (SCADA)	City of Tupelo
SRF FY14 WSI	Town of Jumpertown
Shady Grove WA CDBG 2016 WSI	Benton Co. Board of Supervisors
USDA 2010 WSI	City of Iuka
WSI Distribution	City of Iuka
WSI EST Repair and Repaint	City of Iuka
WSI Well Repair and Rehab	City of Iuka
Hwy 15 MDOT Utility Relocation	Ingomar Water Association
NEIWA SWS Feasibility Assessment	Northeast Itawamba Water Assn
Ashland Water System Extension	Town of Ashland
WSI C5 EST Rehab P&D	Kossuth Water Association
WSI C4 Dist System Improvements P&D	Kossuth Water Association
WSI C3a Water Wells P&D	Kossuth Water Association
WSI C3b SCADA System P&D	Kossuth Water Association
WSI C2 EST #4 P&D	Kossuth Water Association
WSI C1 Test Wells P&D	Kossuth Water Association
MDOT Hwy 178 Water Line Relocation	Town of Tremont
CDBG 2012 WSI	Town of Hickory Flat
CDBG 2010 WSI	Town of Plantersville
CDBG 2010 Water Line Extension	Town of Hickory Flat
Big V Water System Improvements	Big V Water Association
SRF Water FY13 Area 1	City of Tupelo
SRF Water FY13 Area 2N	City of Tupelo
SRF Water FY13 Area 2S	City of Tupelo
SRF Water FY13 Area 3	City of Tupelo
SRF Water FY14 Purnell Tank	City of Tupelo
SRF Water FY14 Water Area 5	City of Tupelo
SRF Water FY15 Area 5 Purnell Road	City of Tupelo
SRF Water FY15 Area 6 Mt Vernon Rd	City of Tupelo
CDBG 2009 WSI	City of Verona
Spout Springs WSI	Tippah Co. Board of Supervisors
Water Pump Station Rehabilitation	City of Tupelo
DeBeau Pump Station Replacement	City of Tupelo
Bickerstaff Pump Station Replacement	City of Tupelo
Mitchell Road Tank Rehabilitation	City of Tupelo

CAPACITY AND CAPABILITY

OUR STAFF

Cook Coggin has a staff of approximately 68 professional and technical employees comprised with an engineering team adept in civil, environmental, structural, hydraulic, geotechnical, transportation and bridge design and geologists who are recognized experts in their field. The firm also employs highly trained designers, cost estimators, surveyors, and other professionals so that professional services can be provided for the complete scope of the project which includes funding procurement, planning, surveying, design, testing, construction and contract administration.

PROFESSIONAL TEAM

5 Principals with a combined 116 years of service to the firm

8 Registered Professional Engineers

4 Engineer Interns

3 Civil Engineer Personnel

1 Registered Professional Geologist (RPG)

1 Geographic Information Specialist (GIS)

3 Registered Professional Surveyors (PLS/PS)

10 Designers/ Computer-Aided Design & Drafting (CADD)

14 Construction Administration/ Engineering Representatives

5 Laboratory/Environmental & Surveying

AND

15 Support Staff Providing IT, Accounting, Administrative, Business Development & Marketing



TIMELINESS/ TEAM MEMBER AVAILABILITY

The successful completion of the various engineering tasks for any project will no doubt depend heavily upon the experience and qualifications of each team member, as well as the overall organization of the project team. Each member of the CCE team selected for any project understands the importance of providing responsive engineering services to the client, especially on short notice. This is particularly relevant for projects with heightened public awareness and scrutiny.



To assure the Owner the most responsive engineering services, CCE's management is committed to providing priority contractual obligation to this project, which will enable completion of project tasks in a timely manner at minimum cost.

To accomplish engineering design on a compressed schedule, CCE feels that the project team must possess the following resources:

- Availability of an in-house resource of key personnel with both strong technical and experience background that must be dedicated full time to the project.
- Availability of experienced in-house support staff (CADD) operators/designers, construction overview personnel, field data collection personnel equipped with state-of-the art equipment and laboratory technicians that, again, must be dedicated to the project.
- Familiarity of the engineering firm and, in particular, the engineering staff with not only the project requirements but, more importantly, the existing systems in the area of the project that may have the greatest impact on the infrastructure.
- Have the ability to work directly with the client on a daily basis to keep them informed of the project.

The CCE project team understands that regardless of the size and expertise of the team members' firm, the success of any project depends on the availability of key team members. This is particularly true in this case where the assigned tasks must be completed in a timely fashion. Therefore, the CCE key individuals for this project stand ready to provide the client with prompt response.

If, by some chance, a project would require technical expertise not offered within the organization, CCE stands ready to gain that expertise by coordinating outside qualified support into the team structure. CCE's special consultants are highly experienced professionals, each bringing their own individual skill set to the benefit of our clientele.

ENVIRONMENTAL SERVICES

From source to storage, treatment, pumping and conveyance systems, Cook Coggin provides solutions that work. We do this by employing scientific and engineering principles. We also keep abreast of ever-changing technology developments and regulatory requirements. Since our inception, Cook Coggin has worked closely with our utility clients to meet their needs, whether it involves water, wastewater or solid waste. Our experienced environmental team has the knowledge, skills, tools, and relationships to help you accomplish your goals.



CCE has had the privilege of providing Environmental Engineering Services to several clients over the past 74 years. Provided below is a partial listing of the environmental services that CCE provides.

- Site Evaluation and Design
- Long-Term Planning for Financial Feasibility and Operations
- Municipal Solid Waste Management Permitting
- Regional Solid Waste Management Plan Development and Modifications
- Air Pollution Control Title V Permitting
- Water – NPDES Permitting
- Water – Pretreatment Permitting
- Construction Planning, Oversight and QA/QC
- Baseline Storm Water General Permitting for Industrial Activities
- Large Construction Storm Water General Permitting
- Storm Water Pollution Prevention Plans (SWPPP)
- Spill Prevention, Control, and Counter Measure (SPCC) Plans
- Title V Semi-Annual Certification Reporting
- Title V Annual Certification Reporting
- Landfill Gas Emissions (LandGEM) Modeling
- Annual Greenhouse Gas Modeling and Reporting
- Particulate Matter (PM) Emissions Calculations
- Title V Annual Emissions Inventory Calculations and Fee Assessment Reporting
- Municipal Solid Waste Transfer Station General Permitting
- Class I Rubbish Site General Permitting
- Class II Rubbish Site General Permitting
- Landfill Capacity Calculations and Optimization Consultation
- Landfill Life Projecting Reporting
- Closure Cost Reports
- Closure/Post Closure Financial Modeling
- Rubbish Site Annual Reporting
- Regulatory Agency Coordination (Local, State & Federal)
- Stream and Wetland Identification & Mitigation
- Geologic Land Use & Evaluations
- Topographic Surveys and 3D Terrain Modeling
- Operations Plan Development

STATE OF THE ART LABORATORY

Cook Coggin Engineers' Tupelo headquarters houses a modern MDOT approved materials testing laboratory with the latest testing and measurement equipment. The technical staff strives to provide quality, timely and accurate results that will ensure both the contractor and the project owner that they are receiving the quality of material that will meet the needs of their project.

CCE LABORATORY & TESTING AT A GLANCE

- Only engineering firm in North Mississippi with an AMRL accredited laboratory.
 - Accreditation required for MDOT funded projects
 - Quality Management System Accreditation
 - Emulsified Asphalt Accreditation
 - Asphalt Mixture Accreditation
 - Quality Control/Quality Assurance certified by MDOT
 - Supervised by a Registered Professional Geologist
 - Laboratory Technicians with a combined 75 years of experience
 - 3 Certified Mix Design Technicians in Hot Mix Asphalt
 - Provides Quality Assurance Testing for Hot Mix Asphalt SuperPave & Marshall designs
 - Full-service soil, granular material, concrete & pavement testing lab
 - Modern facilities with the latest equipment
-





APPROACH

THE COMPLETE CIVIL ENGINEERING PACKAGE

General Cook Coggin Engineers, Inc., CCE, provides a wide range of engineering services designed to provide clients with a satisfactory product at the conclusion of each project. As each project evolves through the various design stages and eventually comes to fruition through the construction phase, CCE personnel are dedicated to providing the client with the product that they have envisioned. An in-depth description of the various stages of project design incorporated to produce this end result is provided in the following sub-sections.

Engineering Design Services Through the design team concept, CCE provides a full range of engineering design services. Beginning with the definition of the project objective(s) and the specific programs necessary to achieve those objectives, the design team performs the preliminary and final design engineering functions required to produce the plans and specifications necessary for the construction of the project. Each of the critical aspects of the engineering design is detailed below.

Problem Definition/ Program Development

The first stage of any engineering design involves the definition of the problem(s) to be solved, and the outline of a series of project alternatives designed to solve the problem(s). At the initiation of the process, the designated members of the design team will meet with the Owner's representative to determine the project objectives and evaluate the project alternatives designed to meet these objectives.

Preliminary Engineering

For the defined project, the CCE design team will review the project requirements and then collect the field data necessary for the project. Once the data is reduced to a usable form, the design team will evaluate the adequacy of the data and determine if more data is required. When all of the data has been compiled, the design team will then finalize the project scope of work and begin developing alternative plans for the project. Construction cost estimates is developed in order to compare and /or evaluate the alternative plans. Right-of-way requirements are also evaluated for each alternative plan.

Preliminary Engineering Review

The selection of the final plan for each project is then accomplished by evaluating the costs and socio-economic impacts of the various alternatives. Input from the Owner will be solicited for this final evaluation. Once a final plan has been agreed upon, the development of the final plans and specifications will commence.



Detailed Engineering Plans and Construction Specifications

The development of the final construction plans and specifications will include the following:

1. Completion of any necessary additional field work for the final selected alternate
2. Verification that the proposed horizontal and vertical alignments meet local/state/federal safety guidelines
3. Development of the layout and design of the at-grade intersections along the project length
4. Development of the plans for additional structures/features required to provide satisfactory connection to abutting properties, i.e., retaining walls, fences, driveways
5. Development of the plans for utility relocations required within the project right-of-way
6. Compilation of a comprehensive list of construction materials required for the project bidding process
7. Development of a set of detailed construction engineering plans, standard/special drawings for the features of the project, and plans for the maintenance and control of traffic through the construction area
8. Development of the specifications describing each major construction item that will enable the selected contractor to complete the project satisfactorily
9. Development of the contract documents between the Owner and the contractor defining the budgetary and time constraints and the quality assurances required to produce a satisfactory product

Final Design Review

The final plans and specifications for each project will be reviewed by the design team and then forwarded to Owner for review and comment. The project manager will meet with the Owner's representative to insure that all desired features/designs have been included to the Owner's satisfaction. Any changes and/or additions will then be returned to the design team for review and inclusion.

Construction Engineering Service and Construction Observation Once the final plans and construction specifications have been prepared, minimum standards and specifications for the contractor will be developed. These standards will be developed so that the eligible contractors will have the resources necessary to produce a satisfactory finished product within the budgetary and time constraints established by the Owner.

Engineering Construction Services

These services include the administration of the proposed projects from the bidding process through resident construction observation and reporting. Each of the proposed services is described below.

***Preparation for Bids***

CCE will prepare the public announcements required to advertise the proposed project for acceptance of construction bids. Copies of the final plans and specifications will be made available to each contractor interested in preparing a bid for the project. The design Engineer will be available to clarify any aspects of the design for the contractors as they prepare their respective bids.

Evaluation of Bids and Contract Award

When the bidding deadline has passed, CCE will compile all of the contractor bids into a suitable tabulation by major construction item. The project manager will then present these bid tabulations to the Owner in order that a contractor may be selected and a contract for the proposed project may be awarded.

Pre-Construction Conference

Once the project has been awarded and a contract signed between the Owner and the selected contractor a pre-construction conference will be held. At this conference, the design Engineer, the design team and the contractor, in the presence of the Owner, will review the various aspects of the project. Questions regarding special materials and/or construction practices will be addressed and agreed upon before the construction begins.

Contract Administration

CCE will administer the construction contract so that each construction item will be performed in accordance with the construction plans and specifications. Changes to the original construction contract and/or project plans/specifications that are approved by the Owner will be administered by CCE.

Resident Project Representation

Construction will be observed by selected CCE personnel to see that the work is constructed in accordance with the contract documents. CCE project representatives will maintain daily logs of the construction work regarding the various items of construction being performed with respect to the project schedule and specifications.

Reports

Monthly reports concerning the progress of the construction will be provided to the Owner as specified by the construction contracts. Each report will provide an updated synopsis of the construction work, the estimated cost and completion date, and other information as required by the construction contract.

Contractors Monthly Pay Estimates

As the construction project advances towards completion, the contractor's monthly pay estimates will be reviewed and recommendations for payment made.



FUNDING PROCUREMENT

MISSISSIPPI DEVELOPMENT AUTHORITY

The Mississippi Development Authority (MDA) administers programs which provide funding for a variety of Economic Development grants. These programs include:

- Appalachian Regional Commission (ARC)
- Community Development Block Grant (CDBG)
- Capital Improvements Revolving Loan Program (CAP)
- Development Infrastructure Grant Program (DIP)
- Small Municipalities and Limited Population Counties Grant Program (SMLPCG)
- Mississippi Rural Impact Fund Program (RIF)
- Freight Rail Service Revolving Loan Program (RAIL)
- Mississippi Main Street Investment Revolving Loan Fund Program (MMSIRL)
- Economic Development Administration (EDA) Public Works Program
- Job Protection Grant

The regional planning agencies such as the MDA typically provide the local governing agency access to these funding sources. CCE has extensive knowledge and experience in the project funding, planning, design and construction engineering & inspection services associated with ARC, CDBG, SMLPCG, DIP, CAP, and RAIL funded projects.

APPALACHIAN REGIONAL COMMISSION (ARC)

The MDA works collaboratively with local planning and development districts (PDDs), economic development organizations, local communities, and other state agencies in the development of eligible projects to address the needs in Mississippi's ARC counties. ARC makes a wide range of grants to public and private nonprofit organizations to help firms create and retain jobs in the Region. For industrial economic development purposes, these projects are mainly geared toward industrial site development and/or business incubator projects.

COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG)

The CDBG Economic Development Grant Program is available to fund publicly owned infrastructure. Funding from this program can be used by municipalities and counties to assist with the location, expansion or retention of businesses. Usage of the funds must be directly related to the construction, renovation or expansion of industry.



DEVELOPMENT INFRASTRUCTURE GRANT PROGRAM (DIP)

The Development Infrastructure Grant Program (DIP) provides grants to municipalities and counties to finance public infrastructure projects that promote economic growth throughout the state. Usage of the funds must be directly related to the construction, renovation or expansion of industry, and municipalities and counties must apply for DIP funding on behalf of a new or expanded industry based on the public infrastructure needs of the project.

ECONOMIC DEVELOPMENT ADMINISTRATION (EDA) PUBLIC WORKS PROGRAM

Empowers distressed communities to revitalize, expand, and upgrade their physical infrastructure to attract new industry, encourage business expansion, diversify local economies, and generate or retain long-term, private sector jobs and investment.

JOB PROTECTION GRANT

The Job Protection Grant Program provides funding to “at risk” industries in the state to assist them in retaining jobs and improving their productivity. To be eligible, a business must have operated in the state for at least three years and have lost jobs or be at risk of losing jobs because such jobs have been relocated to industries in foreign countries.

COMMUNITY DEVELOPMENT BLOCK GRANT FOR ECONOMIC DEVELOPMENT

The Community Development Block Grant for Economic Development (CDBG-ED) Program provides funding to municipalities and counties for publicly owned infrastructure projects to assist with the location, expansion or retention of businesses. CDBG Economic Development funds must be tied to job creation, and municipalities and counties must apply on behalf of a business locating or expanding in Mississippi.

USDA LOAN & GRANT FUNDING

USDA Rural Development operates over fifty financial assistance programs for a variety of rural applications. Below is a brief description of the programs most applicable to this project scope.

WATER & WASTE DISPOSAL LOAN & GRANT FUNDING

This program provides funding for clean and reliable drinking water systems, sanitary sewage disposal, sanitary solid waste disposal, and storm water drainage to households and businesses in eligible rural areas. This program assists qualified applicants who are not otherwise able to obtain commercial credit on reasonable terms. Eligible applicants include most state and local governmental entities, private nonprofits, and federally-recognized tribes.

Funds may be used to finance the acquisition, construction or improvement of:

- Drinking water sourcing, treatment, storage and distribution
- Sewer collection, transmission, treatment and disposal
- Solid waste collection, disposal and closure
- Storm water collection, transmission and disposal



WATER & WASTE DISPOSAL REVOLVING LOAN FUNDS

This program helps qualified nonprofits create revolving loan funds that can provide financing to extend and improve water and waste disposal systems in rural areas. Revolving loan funds may be used for pre-development costs for water and wastewater treatment projects and short-term small capital improvement projects that are not part of the regular operations and maintenance.

Revolving loan funds may be used for:

- Pre-development costs for water and wastewater treatment projects.
- Short-term small capital improvement projects that are not part of the regular operations and maintenance.

WATER & WASTE DISPOSAL PREDEVELOPMENT PLANNING GRANTS

This program assists low-income communities with initial planning and development of applications for USDA Rural Development Water and Waste Disposal direct loan/grant and loan guarantee programs.

Grants may be used to pay part of the costs of developing a complete application for USDA Rural Development Water & Waste Disposal direct loan/grant and loan guarantee programs.

SUCCESS

ARC/ CDBG/ EDA EXPERIENCE

Over the past 74 years, Cook Coggin has provided ARC/ CDBG/ EDA Engineering Services on numerous projects throughout North Mississippi. This history affords CCE with experience and qualifications that are hard to beat. This incomparable background represents a history of success for CCE with regards to both funding procurement and project implementation. It would be hard to enumerate the projects CCE has provided engineering services for since 1946, so instead we offer a summary of the more recent projects from these funding sources.

From FY2018—FY2019, CCE provided the engineering services for twelve (12) public facilities/ economic development applications that received grant funding. A brief description of these projects is summarized below.

ARC FUNDED PROJECTS

<u>Owner</u>	<u>Project Description</u>
Ecru – Ashley	2020 ARC Water
Blue Mountain	2019 ARC Sewer
Itawamba County – Fawn Grove	2019 ARC ED
Belmont – Industrial Park Rd Ext	2018 ARC/SAAW

**ARC FUNDED PROJECTS (CONTINUED)**

<u>Owner</u>	<u>Project Description</u>
Mantachie	2018 ARC Sewer
Myrtle	2018 ARC Sewer
Prentiss County – W Ind Park	2018 ARC/SAAW
Tippah County –Walnut Ind Park	2018 ARC/SAAW
Tishomingo County – Tri-State	2018 ARC Sewer
The Alliance	2018 ARC ED
The Alliance	2018 ARC ED
Lee County	2018 ARC ED

From FY2016—FY2019, CCE provided the engineering services for twenty-four (24) CDBG public facilities applications that received grant funding totaling approximately \$11,200,000 in grant award. A brief description of these projects is summarized below.

CDBG FUNDED PROJECTS

<u>Owner</u>	<u>Project Description</u>	<u>Grant Amount</u>
Benton	2019 CDBG Water	\$600,000.00
Blue Mountain	2019 CDBG Water	\$600,000.00
Corinth	2019 CDBG Sewer	\$600,000.00
Dumas	2019 CDBG Water	\$450,000.00
Durant	2019 CDBG Water	\$450,000.00
Okolona	2019 CDBG Sewer	\$450,000.00
Vaiden	2019 CDBG Sewer	\$450,000.00
Verona	2019 CDBG Sewer	\$400,820.00
Belmont	2018 CDBG Sewer	\$410,500.00
Burnsville	2018 CDBG Water	\$425,000.00
Ecru	2018 CDBG Sewer	\$450,000.00
Monroe County	2018 CDBG ED	\$1,420,000.00
Falkner	2018 CDBG Water	\$447,500.00
Hickory Flat	2018 CDBG Water	\$444,975.00
Jumpertown	2018 CDBG Sewer	\$450,000.00
Mound Bayou	2018 CDBG Sewer	\$450,000.00
Shaw	2018 CDBG Sewer	\$450,000.00
Iuka	2017 CDBG Sewer	\$449,750.00
Blue Mountain	2017 CDBG Sewer	\$450,000.00
Jonestown	2017 CDBG Sewer	\$450,000.00
Lee County	2017 CDBG Sewer	\$400,540.00
Tutwiler	2016 CDBG Sewer	\$450,000.00
Bethel Springs, TN	2016 CDBG Sewer	\$525,000.00
Holly Springs	2016 CDBG Sewer	\$499,800.00
Durant	2016 CDBG Public Building	\$450,000.00



From FY2016—FY2019, CCE provided the engineering services for three (3) EDA applications that received grant funding totaling a little over \$5,500,000 in grant award.

EDA FUNDED PROJECTS

Owner

**Corinth (on behalf of Burnsville)
Corinth
Corinth**

Project Description

**Burnsville Surface Water Imp
Drainage Imp Contract 1
Drainage Imp Contract 2**

PAST PERFORMANCE

CLIENT SATISFACTION

To Cook Coggin Engineers, Inc., client satisfaction is of utmost importance. Regardless of the task, CCE devotes all available resources and investigates all available options in order to deliver its clients the highest quality work. CCE believes that a true measure of the client satisfaction a firm has is seen in the repeat business the firm enjoys with the client. CCE prides itself in the volume of repeat business seen throughout its tenure of service and would like to share some client comments regarding CCE's engineering service performance.

"We have had 20 years of continued service with Cook Coggin Engineers ... total of 16 successful projects throughout our working relationship, of which 10 were water or wastewater infrastructure projects. As mayor, I have personally worked with David Long, PE, Staff Engineer. Mr. Long has always been professional He is always willing to work me in his busy schedule. He is presently working on a wastewater project [for Hickory Flat]."

Diana Gist, Mayor, Town of Hickory Flat

"It is my absolute pleasure to recommend Cook Coggin Engineers.... This company is not only thorough but also easy to work with and always willing to take the time to discuss my concerns and respond to questions."

Doug Norton, Mayor, Town of Blue Mountain



"Cook Coggin Engineers, Inc. has shown an exceptional level of understanding for the Town's needs. They are dedicated professionals who have earned the respect of the leaders of our Town through hard work, integrity and the ability to provide the absolute best customer service possible."

Everett Hill, Mayor, Town of Como



"Cook Coggin Engineers has exceptionally served as professional engineering consultant for the City of Corinth Gas & Water Department for over 25 years. Cook Coggin adds value to the Department's capabilities in meeting the needs of customers. In 2013, Corinth Gas & Water Department began operation of the Clifford G. Worsham Surface Water Treatment Facility valued around \$50 million. Cook Coggin was instrumental in every aspect of the project. The facility earned the MML "Best Overall" Excellence Award in 2013 and the ACEC MS Engineering Excellence "People's Choice" Award in 2014."

John M. Rhodes, Manager, City of Corinth Gas & Water Department

"On behalf of the Town of Myrtle...we are pleased to say we have experienced a great business relationship with Cook Coggin Engineers, Inc. They have been Engineers for the Town for more than 20 years.... Their professionalism and willingness to help makes them very good to work with. We highly recommend them to anyone needing engineering services."

Joe M. Rails, Mayor, Town of Myrtle



"As manager of the City of Tupelo's Water & Light Department, I have personally been privileged to work closely with Cook Coggin Engineers, Inc. on numerous projects over the past 45 years and have full confidence in their abilities."

Johnny Timmons, Manager, Tupelo Water & Light Department



"I want to tell you that from my perspective, I can't count how many startups I have done over the past twenty something years and that I have never started up such a large plant where everything went so smoothly..... everything works, everything is well designed, the plant is easy to operate....."

*Clay Sikes, PE, Principal and Founder of ESG Operation, Inc.**

*ESG is responsible for the operations and maintenance of more than 150 municipal and industrial water and wastewater treatment facilities. www.esginc.net

RESUMES



Education

2011, *Master of Science, Civil Engineering*, Mississippi State University, Starkville, MS

2006, *Bachelor of Science, Civil Engineering*, Mississippi State University, Starkville, MS

Professional Certifications

Professional Engineer,
Tennessee, Mississippi

Instrument Rated Private
Pilot, FAA

Work History

June 2012—Present,
Professional Engineer, Cook
Coggin Engineers, Inc.,
Tupelo, MS

September 2009—June 2011,
Engineer Intern, Cook
Coggin Engineers, Inc.,
Tupelo, MS

May 2007—July 2009,
Engineer Intern, Mississippi
Municipal Consultants, Inc.
Birmingham, AL

January 2007—May 2007,
Engineer Intern, Encore
Construction Company.
Orlando, FL

William Jess Wiygul, PE *Principal*

Jess, has been a part of the CCE team since 2009. Jess holds a bachelor's and master's degree in Civil Engineering and is a Licensed Professional Engineer in the State of Mississippi and Tennessee. He has worked closely with the City of Tupelo's Water & Light Department on numerous projects for the City, assisted the City on economic development projects and in the receipt of funding from governmental agencies such as the Mississippi Development Authority and the Environmental Protection Agency. His primary responsibilities for this project include assisting in the project design and construction engineering. Jess has substantial experience in both water and wastewater treatment facilities and has worked with funding agencies such as the Mississippi Department of Environmental Quality (MDEQ), the Mississippi Development Authority (MDA), and the United States Department of Agriculture (USDA) Rural Development for several years.

Relevant Experience

Some of the most recent projects that Jess has been involved with include:

Tupelo Annexed Sewer Improvements
Tupelo Annexed Water Improvements
Tupelo Day Brite Roof Improvements
Tupelo Hamm Street Sewer Improvements
NEMRWSD Raw Water Intake
Tupelo Booster Station Rehab
Ripley WWTF Improvements
Tupelo Bickerstaff and Debeau St. Sewer Lift Stations
Hickory Flat Water System Improvements
NEMRWSD Conversion to Bleach Disinfection
Durant Wastewater System Improvements
Blue Mountain Wastewater System Improvements

Education

1984, BS, Civil Engineering,
Mississippi State University

Professional Registration

Professional Engineer,
Mississippi, Tennessee

Registered Land Surveyor
Intern, Mississippi

Work History

2000—Present, *President*,
Cook Coggin Engineers, Inc.

1992—2000, *Principal*, Cook
Coggin Engineers, Inc.

2005—Present, *County
Engineer* for Lee, Tippah, &
Benton Counties

2000—Present, *County
Engineer* for Prentiss County

2005—2007; 2012—Present,
County Engineer for Alcorn
County

1986—1992, Staff Civil
Engineer, Cook Coggin
Engineers, Inc.

1984—1986, *Design
Engineer*, NRCS, Mississippi
State Design Unit, Jackson,
MS

Kenneth (Kent) Paul Geno, JR., PE *President, Principal*

Kent is the President of Cook Coggin Engineers, Inc. and one of four (4) principals at Cook Coggin with 35+ years of experience in project management and design for all types of public works projects. Kent is a registered professional engineer in the States of Mississippi and Tennessee and is the County Engineer in Alcorn, Benton, Pontotoc, Prentiss, and Tippah Counties. Over his 29 years of service, Kent has worked on various projects with the City of Tupelo and personally worked with Tupelo Water & Light on a variety of projects. Kent is proficient in his efforts to procure funding for CCE clients and has been a participant in the development of virtually every public facility or economic development project in these areas of late. As the firm's president, Kent will serve as manager to the project team and assist in any capacity necessary as the team utilizes his experience and knowledge to its benefit and to the success of the project.

Kent's experience includes conceptual planning, funding alternatives, field layout & coordination, design and construction engineering for bridge and roadways, sanitary sewer collection, pumping, and pressure sewer lines, sanitary sewer rehabilitation, water distribution, water booster stations, groundwater wells, pressure and gravity water treatment facilities, elevated and ground storage water tanks, airport facilities, recreational facilities, signalization, cost estimating, specifications, operation and maintenance recommendations, and construction plan preparations.

Experience

The following partial listing of various affiliations with public and private entities include personal work involving conceptual planning, funding alternatives & selection, design engineering, field layout & coordination, and construction engineering & observation. A complete listing of projects on an individual project basis would be numerous.

Sanitary Sewer Systems including Collection; Pumping Stations; Treatment Facilities;

City of Tupelo Sanitary Sewer Collection & Treatment System

Tupelo Sewer Phase 1, Contract "A" and "B" Outfall Lines & Pumping Stations

Tupelo Annexed Area Sewer

Tupelo Coley Road Water & Sewer Improvements

Tupelo Canal Street Water & Sewer Improvements

Tupelo Sewers, Belden Ridgeway Troublespot

Tupelo Bissel Area Sewers

Tupelo Pumping Station & Pressure Sewer Line for Barnes Crossing Mall



Kenneth (Kent) Paul Geno, JR., PE

President, Principal

Tupelo Butler Road Area Sewers
Tupelo Mount Vernon Road Sewers
Tupelo Veterans Park Sewer Relocation
Tupelo Sanitary Sewer Adjustments for Major Thoroughfare Programs Phases I & II
Tupelo Barnes Crossing Sewer Pumping Station, Large Diameter Gravity Line, & Pressure Sewer Line 2005
Tupelo Mitchell Road Sewers 2007
Town of Jumpertown Sanitary Sewer Collection & Treatment System
New System Collection & Treatment 2002
Sanitary Sewer System Additions 2006
Town of Marietta Sanitary Sewer Collection & Treatment System
Gravity Sewer Collection Improvements & New Treatment Facility 2003
Sewer Collection System Rehabilitation 2006
City of Corinth Sanitary Sewer Collection & Treatment System
Corinth WWTF Improvements 1986 Corinth Industrial Park Sewer Northeast for Kimberly Clark Corporation
Corinth North Area Collector Sewers Phases I, II, & III
Corinth Sanitary Sewer Rehabilitation & Repairs
Corinth Large Diameter Bridge Creek Outfall Sewers
Corinth SW Area Sewers for South Industrial Park
Corinth SW Sewers, Pumping Station, & Pressure Sewer Line
Corinth Annexed Area Sewers Contracts 1 through 7
Town of Farmington Sanitary Sewer Collection & Treatment System
New Sanitary Sewer Collection System, Phase 1, 2002
Sanitary Sewer System Improvements, Phase 1 Continuation
Sanitary Sewer System Improvements, Miscellaneous 2007
Town of Walnut Sanitary Sewer Collection Treatment System
Collection system Additions and New Treatment Facility 2005
City of Ripley Sanitary Sewer Collection & Treatment System
Town of Blue Mountain Sanitary Sewer Collection & Treatment System
Community of Wheeler Proposed Sanitary Sewer Collection & Treatment System
Town of Mantachie Sanitary Sewer Collection & Treatment System

Water Distribution Hydraulics & Analyses:

City of Tupelo Water Distribution System (purchases water from NEMRWSD)
Tupelo Contract "J" "K" "I" Booster Station Lines
Tupelo Common Improvements Phase 1A Pinecrest & Shady Acres
Tupelo Contract "H" Elevated Water Storage Tank
Tupelo Annexed Area Water Improvements, Phases I & II
Tupelo Water Line Adjustments for Major Thoroughfare Programs Phases I & II
Tupelo North & South Thomas Street Elevated Water Storage Tanks
Tupelo large Diameter Water Line Along Thomas Street SRF Funded 2005
City of Corinth Utility Commission Water Distribution & Treatment System
Corinth 1987 Water System Additions
Corinth High Service Area, Water Distribution, Phase I
Corinth 1998 Water System Additions
Corinth FY 2003 SRF Funded Water System Additions for Future Surface Water & Fire Protection (large diameter mains)
Town of Jumpertown Water Distribution System
Town of Marietta Water Distribution System
Town of Mantachie Water Distribution System

Jack Daniel Farmer, PE

Principal

Education

1978, MS, Environmental Engineering, Mississippi State University

1976, BS, Civil Engineering, Mississippi State University

Professional Registration

Professional Engineer, Mississippi, Alabama

Work History

1984—Present, Principal of Cook Coggin Engineers, Inc.

1978—1983, Engineer, Cook Coggin Engineers, Inc.

1977—1978, Research and Graduate Assistant, Civil Engineering Department, Mississippi State University

Relevant Experience

Joining the CCE team in 1978, Jack has given CCE 41 years of dedicated service. In addition to his Master of Science in Environmental engineering, Jack's proficiency in his field includes work experience in various diversified public utilities endeavors, including municipal water and sewer, and the design, construction, and operation/ maintenance of numerous water and wastewater treatment facilities. Jack specifically has expertise in concept development, project management, design, development, and construction management of potable water systems, wastewater systems in municipal and industrial application and park/recreation facilities as well. He will also serve as mentor and assist his team members in any capacity necessary as the team utilizes his experience and knowledge to its benefit and to the success of the project. Jack is a registered professional engineer in the States of Mississippi and Alabama.

Jack specifically has expertise in concept development, project management, design, development, and construction management of potable water systems, wastewater systems in municipal and industrial application and park/recreation facilities as well.

Wastewater Disposal Facilities

Experience in municipal and industrial wastewater applications includes collection, transport, and treatment systems. Specific experience related to collection systems includes evaluating existing gravity collection systems, evaluating collection system design alternatives, design development of conventional system, small diameter system, pressure sewer system and combination system applications.

Transport system design development experience includes lift station and pressure sewer applications along with pumping stations incorporating flow smoothing and equalization components and force mains.

Treatment system experience includes design development for both secondary and advanced water treatment systems. Design development experience applicable to advanced waste treatment systems includes development of activated sludge systems, hydrograph controlled release lagoon systems, intermittent sand filter systems and land treatment facilities such as slow rate infiltration and overland flow. Design development experience related to secondary treatment systems includes activated sludge, aerated and facultative lagoons.

Jack's role in various wastewater disposal facilities are as follows:

- City of Tupelo Barnes Crossing 4.3 MGD Quadraplex Pumping Station and 20" pressure sewer line.
- City of Tupelo 1.0 MGD Southwest Triplex Pumping Station and 12" pressure sewer line.
- City of Holly Springs 1.1 MGD North Duplex Pumping Station and 17,500 linear feet of 12" force main.
- City of Holly Springs 1.2 MGD Southwest Triplex Pumping Station and 7,500 linear feet of 12" force main.
- City of Tupelo Wastewater Facilities for Pretreatment Aerated Lagoon for Pretreatment of process wastewater, 1.5 MGD Pumping Station and approximately 18,000 linear feet of 10" force main.

Jack Daniel Farmer, PE

Principal

Jack's role in various wastewater disposal facilities are as follows:

- City of Tupelo Barnes Crossing 4.3 MGD Quadraplex Pumping Station and 20" pressure sewer line.
- City of Tupelo 1.0 MGD Southwest Triplex Pumping Station and 12" pressure sewer line.
- City of Holly Springs 1.1 MGD North Duplex Pumping Station and 17,500 linear feet of 12" force main.
- City of Holly Springs 1.2 MGD Southwest Triplex Pumping Station and 7,500 linear feet of 12" force main.
- City of Tupelo Wastewater Facilities for Pretreatment Aerated Lagoon for Pretreatment of process wastewater, 1.5 MGD Pumping Station and approximately 18,000 linear feet of 10" force main.

Jack's role in various water projects are as follows:

- NEMRWSD - 12 MGD Surface Water Treatment plant; intake structure and raw water pumping; dual 24 inch raw water line; clearwell and finished water pumping.
- Tri-County - 15 MGD Surface Water Supply Project; planning and design services to treat and transport drinking water from the Tennessee/Tombigbee River at Burnsville.
- City of Corinth - 10 MGD Surface Water Supply project to bring treated drinking water from the Tenn/Tom Waterway to the City of Corinth and Alcorn County.
- NEMRWSD - 6 MGD Surface Water Treatment plant expansion; improvements to intake structure and raw water pumping; filter plant capacity and finished water pumping.

Jack's role in various water projects are as follows:

- NEMRWSD - 12 MGD Surface Water Treatment plant; intake structure and raw water pumping; dual 24 inch raw water line; clearwell and finished water pumping.
- Tri-County - 15 MGD Surface Water Supply Project; planning and design services to treat and transport drinking water from the Tennessee/Tombigbee River at Burnsville.
- City of Corinth - 10 MGD Surface Water Supply project to bring treated drinking water from the Tenn/Tom Waterway to the City of Corinth and Alcorn County.
- City of Starkville - Highway 25 Water Line Extension including 16,500 linear feet 16" water line and 3,000 GPM pressure reducing valve arrangement to accommodate fire protection demands in recently annexed areas of the city.
- City of Starkville - Highway 25 Water Line Extension including 15,000 linear feet 16" water line and 3,000 GPM pressure reducing valve arrangement to accommodate fire protection demands in recently annexed areas of the city.
- NEMRWSD North Lateral Phase 3A&B, 2.0 MGD Booster Station and 53,650 linear feet 18" transmission main.

Education

1993, BS, Civil Engineering,
University of Mississippi

1989, Bachelor of
Engineering, University of
Mississippi

Professional Registration

Professional Engineer,
Mississippi, Alabama

Work History

January 2016—Present,
Principal, Cook Coggin
Engineers, Inc., Tupelo, MS

June 2007—Present,
Professional Engineer, Cook
Coggin Engineers, Inc.,
Tupelo, MS

March 2007—June 2007,
Sales Engineer, Envirotech,
LLC, Memphis, TN

April 2005—February 2007,
Sales Engineer, Tupelo
Rubber & Gasket, Inc.,
Tupelo, MS

August 2004—April 2005,
Construction Engineer, Paul
Smithey Construction, Inc.,
Tupelo, MS

August 1999—August 2004,
President/Owner, Weeden
Construction, Tupelo, MS

January 1998—July 1999,
Engineering Consultant,
Cobb Environmental &
Technical Services, Inc.,
Tupelo, MS

April 1997—January 1998,
Park Engineer, Natchez
Trace Parkway, Tupelo, MS

1994—1995, *Engineer*, MS
State Department of Health,
Division of Water Supply,
Tupelo, MS

John Mark Weeden, PE

Principal

Mark has been employed with CCE since 2007 and has been involved with numerous projects over the past 12 years. Located in CCE's Corporate Tupelo Office, Mark has worked intimately with North Mississippi Communities and Water Associations throughout his tenure with CCE. Mark's experience includes conceptual planning, field layout, project management, design and construction oversight for water systems, sanitary sewer systems and utility relocations throughout North Mississippi. Mark, a 1993 Civil Engineering Graduate of the University of Mississippi, is a Registered Professional Engineer in the State of Mississippi and Alabama.

Relevant Experience

Throughout his service to CCE, Mark has worked intimately with the City of Tupelo's Water & Light Department. He has extensive knowledge of the City of Tupelo's current needs as well as the overall long-term plans the City has with regards to its water & sewer system and Mark is extremely familiar with the City's ongoing expansion, maintenance and improvement projects for TWL. Experience includes conducting field inspections for drinking water supplies, roadway overlays and roadway reseals; managing environmental clean-up sites, including groundwater and soil treatment; construction of concrete house slabs, driveways, sidewalks, paved ditch, inlets and box bridges; water distribution design; sanitary sewer collection design; cost estimating; specifications; construction plan preparations; permitting; and project management.

Relevant Projects:

- Tupelo West Jackson Street Redevelopment
- Tupelo East Main Water Relocation
- Tupelo Annexed Water Improvements
- Tupelo Annexed Sewer Improvements
- PUL Alliance Water Distribution & Pressure Sewer
- City of Corinth Water Distribution
- Ingomar Water Association Highway 15 Water Relocation
- Hatley Water System Water Distribution
- Dorsey Water Association Water Distribution
- Kossuth Water Association Water Distribution
- Iuka Water Association Water Distribution
- Town of Ashland Water Distribution Improvements
- Town of Hickory Flat Water Distribution Improvements
- Town of Blue Mountain Water Relocation
- City of Ripley Water, Sewer, & Gas Relocation
- Town of Falkner Water & Sewer Relocation

Education

2006, BS, Civil Engineering,
Mississippi State University

Professional Registration

Professional Engineer,
Tennessee, Mississippi

Work History

January 2016—Present,
Principal, Cook Coggin
Engineers, Inc., Corinth, MS

December 2006—Present,
Professional Engineer, Cook
Coggin Engineers, Inc.,
Tupelo, MS

Fall 2006, *Bridge Inspector*,
Cook Coggin Engineers, Inc.,
Tupelo, MS

Summer 2006, *Field
Inspector*, Cook Coggin
Engineers, Inc., Tupelo, MS

Summer 2004, *Surveyor*,
Cook Coggin Engineers, Inc.,
Tupelo, MS

Matthew Estes, PE *Principal*

Matthew has been employed with CCE since 2004 and has been involved with numerous projects over the past fourteen (14) years. Located in CCE's Regional Corinth Office, Matthew has worked closely with North Mississippi and Southern Tennessee Communities throughout his tenure with CCE. Matthew's work experience includes project management, planning design and construction oversight for municipal water, wastewater, gas, roadway and drainage projects. He has been involved with an array of planning teams over the years to assist in the development of local infrastructure and growth. Matthew is a Registered Professional Engineer in the State of Mississippi and Tennessee, a Certified Floodplain Manager in the State of Mississippi, and has certification in the National Highway Institute Program for the Safety Inspection of In-service Bridges.

Relevant Experience

Experience includes preliminary project development and coordination, design, construction engineering, cost estimating, specifications development, and construction plan preparations for projects including roadway and bridges, traffic simulation modeling for roadways and roadway intersections with and without signalization, rainwater drainage hydraulic and hydrologic analysis, floodplain management, drainage infrastructure, sanitary sewer collection and pumping, sanitary sewer rehabilitation, water distribution, water quality, water rehabilitation, gas distribution, erosion control and BMP's.

The following *Partial* list of various affiliations with public and private entities includes personal work involving conceptual planning, funding, design engineering, construction engineering and observation.

Roadways, Structures, Intersection Signalization, Parking Lots, Drainage

City of Corinth EDA Drainage Improvements Contract No. 1 & 2
City of Corinth South Parkway at U.S. Highway 72 Intersection Imprv.
City of Corinth Meigg Street Sidewalk & Lighting Improvements
City of Corinth Droke Road Bridge Replacement
City of Corinth Webster & Main Street Box Culvert Replacement
City of Corinth Cardinal Drive Widening and Infrastructure Imprv.
City of Corinth Harper & Proper St. Intersection Signalization Imprv.
City of Corinth FEMA Arch Pipe Replacement
City of Booneville Downtown Pedestrian Infrastructure Imprv.
Alcorn County Manpower & Harper Road Improvements
Alcorn County Five-Points Intersection Improvements
The Alliance RailHub South Industrial Site Access & Viewing
Prentiss County Board of Supervisors Forefront Access Road Imprv.
Alcorn, Prentiss, Benton, & Tippah Co. Bridge Inventory Inspections
Benton County Abby Manufacturing Access Road and Parking Imprv.

Matthew Estes, PE

Principal

Three Rivers Solid Waste Management Access Road Imprv.
Tippah County S.R. Highway 4 Hankins Sawmill Access Imprv.
Tippah County Big M Access Road
City of Tupelo East Main Street Widening
City of Tupelo Eason Bridge Addition
City of Tupelo Kings Creek Improvements
HDR City of Tupelo Railroad Relocation Assessment
City of Tupelo South Green Street Drainage Improvements
Holly Springs Intersection Signalization Imprv. of JM Ash & MS
Highway 7; Mary Rahe and Mississippi Highway 7
Town of Burnsville SMLPCG Street Improvements
Town of Walnut FEMA Drainage Improvements
Itawamba Community College Tupelo Campus LRC Parking Lot &
Drainage

Sanitary Sewer Systems

City of Corinth Sewer System Investigations and Rehab Contract 1 & 2
Town of Marietta Sewer Rehabilitation
City of Okolona Sewer Imprv. along Monroe Street and Warren Street
Town of Plantersville Sewer Improvements
Town of Blackland Sewer Improvements
Corinth EDA Drainage Utility Relocations
Town of Walnut Drainage Utility Relocations

Water Distribution Hydraulics, Quality and Analysis

Corinth Utility Commission Surface Water Transmission Main
Corinth Utility Commission Surface Water Distribution Main
Corinth Utility Commission Surface Water Raw Water Main
Corinth Utility Commission Altitude Valve Arrangements
City of Corinth MEMA Portable Emergency Generators
City of Starkville Highway 25 Water Line Extension Phase I & II
Chalybeate Water Association Improvements
Town of Plantersville CDBG Water System Improvements
Town of Oktoc Water Distribution
Town of Palmetto Water Distribution
Town of Kossuth Water Distribution

Recreational and Tourism Facilities

City of Corinth Meigg Street Sidewalks & Lighting
City of Booneville Downtown Pedestrian Improvements
Town of Selmer Downtown Pedestrian Improvements
Town of Walnut Proposed Park Improvements

Industrial Site Development

The Alcorn/Corinth Alliance RailHub South Site Development & Access.

Education

2006—2010, BS, Civil Engineering, Mississippi State University

2004—2006, Engineering, Itawamba Community College

2004, Saltillo High School

Professional Registration

Professional Engineer, Mississippi

Work History

2015—Present, *Professional Engineer*, Cook Coggin Engineers, Inc., Full-Time, Tupelo, MS

2010—2015, *Engineer Intern*, Cook Coggin Engineers, Inc., Full-Time, Tupelo, MS

2009—2010, *Research Assistant*, Mississippi State University, Part-Time, Starkville, MS

2008—2010, *Survey Crew Member*, Cook Coggin Engineers, Inc., Part-Time, Tupelo, MS

2003—2008, *Construction Worker*, Brock Construction, Saltillo, MS

Childhood—Present, Family Farm, Saltillo, MS

Community Involvement

Childhood—Present
Chancel Choir Member, Faithful Member of the Saltillo First United Methodist Church (SFUMC)

David McMullan Long, PE *Professional Engineer*

David joined the Cook Coggin Engineers (CCE) team in January of 2008 as a part-time Survey Crew Member while pursuing his Bachelor's of Science Degree in Civil Engineering at Mississippi State University (MSU). Upon graduation from MSU in May of 2010, David continued his working relationship with CCE full-time as an Engineer Intern. In 2015, David became a Registered Professional Engineer (PE) in the state of Mississippi. David is currently in process of obtaining his Professional Engineering Registration with the state of Tennessee.

In David's 8+ years at CCE, his primary work efforts include over \$20 Million of public water and wastewater infrastructure improvements. From project conception to construction completion, David remains heavily involved with his projects working closely with the Owner providing technical assistance while ensuring the Owner's goals and needs are fulfilled. David has a vast experience with federal and state funding applications. Even though the grant/loan funding process has become extremely competitive, David has been successful in securing 28 grant/loan applications providing critical funding assistance to project Owners.

Relevant Experience

David's primary experience includes funding procurement and preliminary, planning, design and construction engineering of public water and wastewater infrastructure improvements to include but not limited to the following:

Funding Procurement

Community Development Block Grant (CDBG), Appalachian Regional Commission (ARC), USDA-Rural Development, State Revolving Fund (SRF), Delta Regional Authority (DRA), Small Municipalities and Limited Populated Counties Grant (SMLPCG) and other State and Federal agencies.

Preliminary Engineering & Planning

Project Development, Funding Procurement, Estimating, Reports & Studies, Alternative Evaluation, & Value Engineering

Design Engineering

Design and Plan Development of Water Treatment, Supply & Distribution Systems

Design and Plan Development of Wastewater Collection, Pumping & Treatment Systems

Preparation of Contract Documents and Technical Specifications,
Bidding Assistance, Contract Execution Assistance

Construction Engineering

Preconstruction Conference Assistance, Shop Drawings and Material
Submittal Review, Construction Observation and Reporting,
Contractor's Payment Assistance, Final Construction Closeout
Assistance

Miscellaneous Services

Hydraulic Analysis, Rate Studies, NPDES Permit Renewal, MDEQ
Assistance, MSDH Assistance, Site Acquisition, Subsurface
Investigations, Preliminary Wetlands Delineation, Storm Water
Pollution Prevention Plans, & PSC Filing

Attached is a list of projects David has been directly involved with
and managed from project conception to completion throughout his
tenure at CCE.

Education

1979, BS, Civil Engineering,
Mississippi State University

Professional Registration

Professional Engineer,
Mississippi

Work History

1995—Present, *Professional
Engineer*, Cook Coggin
Engineers, Inc., Tupelo, MS

1980-1994, *Outside
Engineer*, BellSouth
Telecommunications, Tupelo,
MS

1974—1978, *Engineer
Assistant*, MSU Co-op with
Mississippi Department of
Transportation, Construction
Project Division, Tupelo, MS

Timothy Agnew Roberts, PE

Professional Engineer

Tim has been employed with CCE since 1995. Tim's 42 years of work experience includes a wide variety of public utilities including municipal water and sewer, and construction/maintenance with the telephone industry. Other experience includes water system design, sanitary sewer layout and design, sewer lift station and pressure sewer design, and highway/bridge construction surveying and inspection. Tim is a registered professional engineer in the State of Mississippi. Tim's primary project responsibilities are the technical design of any water and sewer capacity that might be required.

Relevant Experience

Wastewater experience includes project planning and cost estimating, collection system design, pumping station and pressure sewer design, construction contract administration, sewer rehabilitation using conventional and pipe bursting methods. Some relevant wastewater projects are as follows:

Baldwyn - Southeast Lagoon Lift Station Replacement
Baldwyn - Lucky Star Lift Station Replacement
Baldwyn - Ripley Road Sewer Improvements
Baldwyn - Southwest Area Collector Sewers—
Phases I, II, & III
Baldwyn - Highway 45 South Sewer Extension
Farmington - Sewer System
Fulton - ICC Pumping Station and Pressure Sewer Line
Replacement
Guntown - Ford Avenue Sewers
Holly Springs - Sewer Extension - West Street
Holly Springs - Sunset Acres Sewer
Houston - Collection System Additions
Jumpertown - Sewer System
Myrtle - Sewer Improvements
New Albany - Annexed Area Sewers
New Albany - Wastewater Facilities for Master-Bilt
New Houlka - Sewer System Improvements
Okolona - North Sewer Outfall Replacement
Okolona - Emergency Sewer Replacement
Plantersville - Sewer System Additions & Improvements
Plantersville - Sewer System Improvements - Scattered Sites
Quitman - Franklin Street Lift Station Replacement
Quitman - WWTF Influent Pumping Station Replacement

Timothy Agnew Roberts, PE

Professional Engineer

Saltillo - Northwest Sewers - Phases 1 & 2
Tupelo - McCullough Blvd. Sewer Improvements
Tupelo - Annexed Area Sewers - Phases 3 & 4
Tupelo - Veterans Memorial Park Sewer Line Relocation
Tupelo - Annexed Area Sewers - Old Belden Circle
Tupelo - Annexed Area Sewers - Brooks Road
Tupelo - Annexed Area Sewers - Cliff Gookin
Tupelo - Annexed Area Sewers - Sweet Gum Lane
Tupelo - Sewage Pumping Station & Pressure Sewer Line -
Barnes Crossing Road Area
Tupelo - Sewer Improvements - Feemster Lake Road
Tupelo - Pump Station & Pressure Sewer Line - Cedar Pointe
Tupelo - Canal St. Lift Station Emergency Replacement
Tupelo - Annexed Area Sewers - Oakview
Tupelo - Barnes Crossing Sewer Improvements

Potable water project experience includes project planning and cost estimating, distribution system design, transmission system design, pumping station design, elevated and ground storage tank design, water production well design, pressure booster station design, cross connection surveys, backflow prevention assembly design, private fire service main design, monitor and control systems, construction contract administration.

Guntown Water System Improvements—
Contracts A, B, & C
Fulton ICC Water Improvements
Fulton Surface Water Supply—Phases 1 & 2
Northeast MS Regional Water Supply District—Repair and
Repaint Water Storage Tanks
Northeast MS Regional Water Supply District—Front Street
Booster Station
Northeast MS Regional Water Supply District—Meter
Additions
Plantersville - Emergency Water Line Replacement—CR
1001
Saltillo Water System Improvements—West Subsystem

Utility Relocation for Roadway and Bridge Construction—water,
sewer, and gas utilities

Baldwyn - Utility Relocation for Highway 145 Bridge
Replacement

Timothy Agnew Roberts, PE
Professional Engineer

Northeast MS Regional Water Supply District—Water Line
Relocation for Euclatubba Road Bridge
Okolona Utility Relocation for MS Highway 41
Okolona Emergency Water Line Relocation at Main Street
Railroad Bridge
Okolona Emergency Sewer Replacement—MS Highway 41
Tupelo West Main Utility Relocation - Thomas St. to
Natchez Trace
Tupelo West Main Utility Relocation—Monument Drive to
Milford Street
Tupelo North Gloster Street Utility Relocation
Saltillo Utility Relocation for Euclatubba Road Bridge

Industrial and Commercial Site Development experience
involves the planning & design and/or relocation of water, sewer,
and gas utilities

Baldwyn Utilities for Site H - North Lee Industrial Complex
Baldwyn Utilities for Yellowstone - North Lee Industrial
Complex
BancorpSouth Water & Sewer Improvements—Belden
Property
Community Development Foundation—Bryan Blvd. Water
Line Extension
Lee County Sewer Line Relocation for Berkline—North Lee
Industrial Complex
Lee County Utilities for TKA Fabco—Tupelo-Lee Industrial
Park South
Lee County Utilities for AirCap—Tupelo-Lee Industrial Park
South
Lee County Utilities for H.M. Richards—North Lee
Industrial Complex
Lee County Utilities for AL-KO Kober—North Lee
Industrial Complex
Lee County Utilities for H.M. Richards Expansion—North
Lee Industrial Complex
Lee County Utilities for OKIN America—Tupelo-Lee
Industrial Park South
Lee County Martinrea Fabco Expansion Site
Improvements—Tupelo-Lee Industrial Park South
Lee County Water Line Relocation for Lane—Turner
Industrial Park
Stellar Group Site Utilities for Southern Family Foods

Timothy Agnew Roberts, PE

Professional Engineer

Style-Line Furniture Sewer Line Relocation

Tupelo Process Wastewater Pretreatment Facilities for

Southern Family Foods

Annexation and Public Service Commission Filing

Assistance—Legal descriptions, utility studies, testimony,
etc.

Guntown Public Service Commission Filing for Water

Service Area Expansion

Guntown 2006 Annexation

Tupelo Annexation Study

Funding acquisition assistance experience includes USDA Rural
Utility Services Loans and Grants, Community Development
Block Grants, Appalachian Regional Commission Grants, State
Revolving Loan Fund, Economic Development Agency Grants,
various other state and federal grant and loan programs

Environmental Reporting experience includes wetlands, critical
habitat and endangered species, floodplains, historical and
archaeological sites, etc.

Storm Water Pollution Prevention Plan development

Education

1983, MS, Geology,
University of Mississippi

1981, BS, Environmental
Geology, University of
Mississippi

Professional Registration

Professional Geologist,
Mississippi, Tennessee, &
Arkansas

Professional Certification

USDOT & IATA HAZMAT
Portable Nuclear Gauge
Safety Certification

USACE Wetland Delineator
Certification

HAZWOPER Training

Work History

2010—Present, *Professional
Geologist/Lab Manager*,
Cook Coggin Engineers, Inc.,
Tupelo, MS

2008—2010, *Professional
Geologist*, Earth Counseling
Group, Tupelo, MS

2002—2008, *Professional
Geologist*, EcoScience
Resource Group, LLC, Baton
Rouge, LA & Tupelo, MS

1993—2002, *Professional
Geologist*, NPC Services,
Inc., Baton Rouge, LA

James R. Spencer, RPG

Professional Geologist/Environmental Coordinator

Jimmy Jimmy is the Environmental Coordinator/Senior Geologist for Cook Coggin Engineers, Inc. and has over 33 years of experience with major industrial and commercial projects including assessment and remediation of sites impacted by chlorinated aromatic hydrocarbons. In this role, he is responsible for lead project management on a number of environmental projects for various clients and supervises the AASHTO accredited materials testing laboratory. He performs the required environmental assessments for road and bridge projects including seismic zone determinations and wetland delineations. In his role as Environmental Coordinator, Jimmy has worked on every project for the City of Tupelo that requires any environmental permitting, documentation, or stormwater pollution prevention planning. As lab manager, Jimmy oversees the daily laboratory functions including soil, concrete, and asphalt testing. He has developed groundwater flow models for water resource evaluations and reactive transport models to demonstrate natural attenuation processes that served as the basis for a successfully negotiated site closure plan. Jimmy has managed permitting and compliance projects in Mississippi, Alabama, and Louisiana including landfill permitting, Storm Water Pollution Prevention Plans (SWPPP), and Spill Prevention Control and Countermeasures Plans (SPCC) for roadway, bridge, and pipeline construction projects. Jimmy has performed numerous Phase I and II environmental site assessments (ESA) and wetland delineations. While serving as Director of the Division of Hydrologic Investigation and Reporting for the Mississippi Department of Environmental Quality, he was responsible for groundwater resource evaluation by developing groundwater models of the major aquifers in Mississippi. These models later served as the technical basis to aid in the development of a State Water Management Plan. In this role, Jimmy also served as an expert witness in cases of permit issuance. For this project, Jimmy will serve as facilitator for all laboratory and geological testing services required for the feasibility study and or subsequent site development procedures. Jimmy is a Registered Professional Geologist in the State of Mississippi and Tennessee.

Relevant Experience

- *Laboratory Testing/Oversight* – Conducts testing and provides laboratory oversight of soil, concrete, and asphalt for numerous highway, bridge, and structure construction projects
- *Project oversight of oil-impacted soil excavation* - Provided project oversight for the impacted soil excavation activities from a crude oil pipeline rupture in south Mississippi. Backfill of the excavated areas was completed, the areas

1991—1993, *Professional Geologist*, Dames & Moore, Baton Rouge, LA

1985—1991, *Professional Geologist*, Mississippi Department of Environmental Quality, Jackson, MS

1983—1985, *Professional Geologist*, Baker Engineers, Jackson, MS

James R. Spencer, RPG

Professional Geologist/Environmental Coordinator

impacted by excavation activities returned to natural grade, and erosion control measures put in place.

- *Served as team member with the U.S. Environmental Protection Agency (EPA)* – As a subcontractor to EPA, worked to identify, handle, store and transport suspect hazardous waste materials following Hurricanes Katrina and Rita in South Louisiana. Suspect materials were recovered from the swamps and marshes along the Louisiana coast, transported to a central storage area, and identified for proper disposal.
- *Design and management of both the hydrogeologic and contaminant migration investigations* at two NPL Sites in south Louisiana. Responsible for the design of three-dimensional groundwater flow and solute transport models to demonstrate hydraulic containment, recovery, and effects of natural attenuation. Recent responsibilities included the development of a reactive transport model to demonstrate natural attenuation that served as the basis for a successfully negotiated site closure plan. This model was the first known simulation of the reactive processes of both chlorinated ethanes and ethenes in a subsurface environment.
- *Management of permitting and compliance projects* in Mississippi, Alabama, and Louisiana including permits, Storm Water Pollution Prevention Plans (SWPPP) and Spill Prevention Control and Countermeasures Plans (SPCC) for pipeline construction projects and aboveground storage tank sites; Supervision of underground storage tank removal, soil removal and disposal at compressor stations; Permits for hydrostatic testing for pipeline construction projects.
- *Project Manager* for numerous Phase I/II environmental site assessments and wetland delineations for real estate development, industrial clients, and highway and bridge construction projects.

Education

1983, AA. Civil Engineering
Technology, Northeast
Mississippi Community
College

Professional Registration

Registered Land Surveyor,
Mississippi

Work History

1984—Present, *Senior
Designer/Survey Supervisor*,
Cook Coggin Engineers, Inc.

1984, *Crew Chief*, Carothers
Construction Company, Water
Valley, MS

1982—1984, *Draftsman/
Survey Crew Chief/ Inspector*,
Martin Engineering Co.,
Booneville, MS

Doug Lytal, PLS, CET

Senior Designer/Survey Supervisor

Doug has been employed by CCE since 1984. Doug has his AA (associates degree) in Civil Engineering Technology and is a licensed Professional Land Surveyor in the State of Mississippi. Doug's 34 years of experience involves computer graphic communication as well as field surveying, development and interpretation of topographic surveys, and the reduction/ interpretation of surveying data. Doug has been involved with the drafting and development of the construction plans for numerous roadway, bridge, water and sewer, transmission line, industrial park and residential/ commercial site development projects. Doug's primary responsibilities involve the management of required surveying fieldwork activities, the oversight of the development right-of-way plats, and coordination of the CADD operators as related to the preparation of the construction plan documents.

Relevant Experience

- GPS Control Survey, Route Topography and Treatment Site Surveying and Topography
- Supervision of field surveying activities and the preparation of easement and right of way surveys and legal documents for recording of required right-of-way and easements of numerous utility and roadway projects.
- Doug has been involved with the field work, surveying, right-of-way plats and CAAD services for all projects CCE provided engineering services for in Alcorn, Benton, Chickasaw, Itawamba, Lee, Monroe, Pontotoc, Prentiss, Tippah & Tishomingo County in the past 20 years. Below is a *PARTIAL* listing of relevant projects from the last 5 years:
 - EFLAP-9999-09(152)/ 107194 Town of Burnsville
 - STP-0055-00(37)LPA/ 106906-70100 NEMCC Pedestrian Imp
 - STP-0120-00(016)LPA/ 106897-70100 City of Corinth Meigg Street Sidewalk & Lighting
 - STP-9299-00(002)LPA/ 106601-70100 City of Corinth South Parkway at Hwy 72 Improvements
 - SRSP-0268-00(008)LPA/ 106356-401000 City of Verona SRTS Ph 1
 - SRSP-0268-00(012)LPA/ 107157-401000 City of Verona SRTS Ph 2
 - SRSP-0230-00(010)LPA/ 107163-401000 City of Holly Springs Primary School Safe Routes to School
 - STP-0055-00(038)LPA/ 107125-70100 City of Booneville Downtown Intersection Improvements
 - EDA No. 04-79-06708 City of Corinth EDA Drainage ImpPh1 & 2
 - Recreational Complex for Crossroads Regional Park City of Corinth, Alcorn County

Doug Lytal, PLS, CET

Senior Designer/Survey Supervisor

Alcorn County NRCS Drainage Improvements
Manpower & Harper Road Improvements (City of Corinth,
Alcorn County)
Tupelo Major Thoroughfare 1991—2015 (City of Tupelo)
Brices Crossroads Mississippi Driving Tour (MDAH, City of
Baldwyn, Lee County)
Alcorn County Timber Bridge Replacement Bridge #95 & #99
BR-0998(7)B Replace Bridge No. 40, 41, & 42 on County
Road 600 (Alcorn County)
BR-0048(33)BO Sipse Trail Bridge Replacement (Monroe
County)
DECD-0041(43)B Phase A & Phase B – Toyota Autobody
Boulevard (Lee County)
SAP-71(71) (Tishomingo County)
SAP-48(16)M (Monroe County)
SAP-58(13)M (Pontotoc County)
APL-0059(41)B (Prentiss County)
STP-0041(41)BO Bridge and Approaches (Lee County)
GRS-0071(26)BO (Tishomingo County)
SAP-48(26)M (Lee County)
SAP-48(17)M (Monroe County)
LSBP-29(24) Bridge and Approaches (Itawamba County)
SAP-71(32)M (Tishomingo County)
SAP-70(18)S (Tippah County)
LSBP-29(33) (Itawamba County)
LSBP-02(21) Bridge & Approaches (Alcorn County)
STP-0005(22)B Bridge & Approaches (Benton County)
EFLH-0009(21)B Bridge & Approaches (Benton County)
BR-0029(30)B Bridge & Approaches (Itawamba County)
LSBP-29(29) Bridge & Approaches (Itawamba County)
BR-0876(8)B Bridge & Approaches (Lee County)
LSBP-48(18) Box Bridge A & B
SAP-41(23)M Bridge Rehab (Lee County)
STP-0805(21)B Bridge Rehab (Prentiss County)
LSBP-59(22) Bridge & Approaches (Prentiss County)
STP/BR-0070(21)BO Bridge & Approaches (Tippah County)
LSBP-70(22) Bridge & Approaches (Tippah County)
LSBP-70(24) Bridge & Approaches (Tippah County)
EFLH-0005(21)BO (Benton County)
SAP-02(66) (Alcorn County)
SAP-02(65) (Alcorn County)
LSBP-29(31) (Itawamba County)
SAP-29(90) Box Culvert (Itawamba County)
SAP-29(90) Box Bridge
LSBP-41(28) (Lee County)
LSBP-48(19) (Monroe County)
LSBP-48(21) (Monroe County)
BR-0939(8)B (Tippah County)

Education

2009, BS, Geosciences
w/emphasis in Environmental
Geoscience, Mississippi State
University

Professional Registration

Professional Surveyor,
Mississippi

Professional Certifications

Geographic Information
Systems (GIS) Certificate,
Mississippi State University

NACE Level 1 Coating
Inspector # 31544, NACE
International

Work History

2009—Present, *GIS
Specialist*, Cook Coggin
Engineers, Inc.

2007—2009, *Program
Technician—GIS Operator*,
USDA Farm Service Agency,
Houston/Starkville, MS

2001—2008, *Landscape
Operator, Quality
Landscaping*, Tupelo, MS

Garrett H. Dendy, PS *GIS Specialist*

Garrett joined the Cook Coggin team in 2009 as Geographic Information Systems (GIS) Specialist for the firm and is the head of our GIS Operations. Garrett uses GIS systems to create maps, graphs, and databases for counties, cities, and municipalities such as water, sewer, and gas systems, tax parcels, and various other functions associated with Geographic Information Systems. Included in his duties are collecting and verifying GIS mapping and/or survey grade field data. Garrett also conducts flood mitigation such as—floodplain management, permitting, certificate evaluation, and/or flood damage assessments. Garrett also serves as Inspector for water tank projects including sanitary, structural integrity, and cathodic protection. Garrett's tasks for this project will include control of the GIS data gathering and mapping. In his capacity at CCE, Garrett has worked on multiple projects for the City of Tupelo.

Relevant Experience

Some current relevant GIS projects include but are not limited to:

- Tupelo Water & Light Department GIS Mapping
- City of New Albany Water System
- Town of Ingomar Water System
- City of Fulton Water System
- City of Ackerman Water System
- City of Okolona Sewer
- City of Verona CDBG Water
- Iuka Water systems Improvements
- Iuka WSI SS
- Corinth Arch Pipe Replacement
- Tupelo Mitchell Rd Tank Rehab
- MTD Site Mapping
- Lee County MTD Fire Protection
- Kossuth Water Systems Improvements
- Kossuth WSI SS
- 3 Rivers Solid Waste Authority
- NEMRWSD GPS Update
- Prentiss County Floodplain Management
- City of Ripley Floodplain Management
- City of Myrtle Floodplain Management
- City of Hickory Flat Floodplain Management
- Town of Blue Mountain Floodplain Management
- Ripley Oil Dri Design & Construction
- Tippah County Railroad Improvements
- Corinth Drainage Assessment

Work History

2017—Present, *Laboratory Manager*, Cook Coggin Engineers, Inc., Tupelo, MS

2010—2017, *Construction Inspector*, Cook Coggin Engineers, Inc., Tupelo, MS

2008—2010, *Bridge Technician & Job Inspector*, Newcomb Engineering Company, Corinth, MS

2006, *Residential Construction*, Price Builders, Corinth, MS

2006, *Survey Internship*, Hill Brothers Construction Company, Falkner, MS

Certifications

Grade I—ACI Concrete Field Technician

Level 1 Certified Asphalt Technician

NUCA Excavation Safety and Competent Person Training Program

OSHA 10 Safety Certification

APBGA Portable Nuclear Gauge Radiation Safety Officer Class

Brice Wilbanks *Laboratory Manager*

Brice has worked for CCE since 2010. Brice's experience includes the coordination of contractors and sub-contractors schedules in order to maintain a constant production flow on the jobsite, interfacing with the Contractor and/or Owner on project status, concerns, issues, etc. He is experienced in the facilitation of inspection scheduling for city inspectors, including final inspections. He has also served as a construction inspector and quality control officer for various construction sites, ensuring that appropriate safety and environmental measures are being maintained. Brice's experience involves layout, surveying, and staking for various types of roadways, bridges, and street projects throughout north Mississippi. He is experienced with all of the equipment used by CCE to gather field data. Brice serves as an intermediary between the contractor and the design team. His primary function is construction observation and materials compliance inspection.

Education

1999, AA, Civil Engineering
Technology, Northeast
Mississippi Community
College

Professional Training

GPS Training, Tupelo, MS

Work History

1999—Present, Survey Crew
Chief/Construction Inspector,
Cook Coggin Engineers, Inc.

Jeremy Taylor, CET

Engineer Field Representative

Jeremy began working with Cook Coggin in 1999. In his 17 years of service to Cook Coggin, Jeremy has performed the field planning and survey work for numerous infrastructure improvement projects including roadways and streets, drainage structures, bridges, site developments, grading plans, detention ponds and parking lot layouts. Jeremy has also provided construction inspection services for numerous jobs on behalf of Cook Coggin. Some of the larger projects that Jeremy provided the major field work and survey efforts on were as follows:

Relevant Experience

LSRP-09(3) (Chickasaw County)
LSRP-05(2) (Benton County)
LSRP-05(3) (Benton County)
DECD-0002(29)B Kimberly Clark Access Road (Alcorn County)
Manpower & Harper Road Improvements (City of Corinth, Alcorn County)
Tupelo Sewers Annexed Areas FY 13
Tupelo Sewers Annexed Areas FY 14
Tupelo Sewers Annexed Areas FY 15
Tupelo Water Annexed Areas FY 13
Tupelo Water Annexed Areas FY 14
Tupelo Water Annexed Areas FY 15
Farmington Sewer
Jumpertown Sewer
Saltillo NW Sewers
Walnut Sewers
Corinth Annex Area Sewers
Tupelo Highway 6 Utility Relocation - Water & Sewer
Corinth SRF Water
Booneville George E. Allen Drive Widening
Prentiss County Industrial Park West Access Road
Corinth Harper Road Widening
Numerous Bridge & Roadways in Alcorn, Prentiss &
Tishomingo Counties
Lee County Toyota Autobody Boulevard



Education

2002, AA in CADD, Northeast
Mississippi Community
College, Booneville, MS

Professional Certifications

Certified Asphalt Technician,
Level I

Certified Concrete Strength
Testing Technician

Certified Concrete Field
Testing Technician

Nuclear Gauge Safety,
including HAZMAT
certification

Compaction & Density
Testing

Work History

2007—Present, *Engineers
Field Representative/
Inspector*, Cook Coggin
Engineers, Inc., Tupelo, MS

2005—2007, *Zoning &
Building Administrator*, City
of Saltillo, Saltillo, MS

2002—2005, *Owner/CEO*,
Sandlin Construction,
Saltillo, MS

1994—2002, *Foreman*,
Robertson Construction,
Saltillo, MS

Robert L. (Robby) Sandlin

Engineer Field Representative

Robby began working for Cook Coggin in 2007. Over his nine years of service, he has had the opportunity to observe and inspect numerous job sites ensuring that they are in compliance. Robby has worked very closely with the City of Tupelo's Water & Light Department (TWL), assisting in easement acquirement for a variety of TWL projects. His experience includes but is not limited to the inspection of numerous sewer and State Aid road projects, rural water systems, industrial park utilities, and sewer rehabilitation projects throughout North Mississippi. His primary function for this project will be easement assistance, CCE liaison and construction observation & inspection.

Relevant Experience

- Construction Easement Execution for ROW on construction projects for Clients.
- Construction cost estimation, inspection for streets, sewer systems, water systems, residential housing, and lot preparation
- Heavy equipment operations
- Subdivision layout and design
- System design and installation of treatment plants
- Storm drainage
- Public Relations Liaison for CCE

Relevant Projects

- Tupelo Sewers Annexed Areas FY 13
- Tupelo Sewers Annexed Areas FY 14
- Tupelo Sewers Annexed Areas FY 15
- Tupelo West Jackson Street Redevelopment
- Tupelo East Main Water Relocation

Education

1980, BS, Business
Administration & Real Estate
and Insurance, University of
Southern Mississippi

Professional Accreditations

Continuing Education (CE)
Instructor, *endorsed by*
Mississippi Insurance Dept.
Mississippi State Guest
Instructor, *Commercial*
Property for the Finance &
Economics Dept. Risk
Management Majors

Work History

2010—Present, *Business*
Development/Public
Relations, Cook Coggin
Engineers, Inc.

2008—2010, *Territory*
Manager MS and West TN,
Montgomery Insurance
(Liberty Mutual), Saltillo, MS

2001—2008, *Senior Sales*
Executive, Zurich Small
Business, Saltillo, MS

1997—2001, *Field*
Representative for MS & AR,
Grain Dealers Mutual
Insurance Company, Saltillo,
MS

1993—1997, *Vice President*
& Producing Agent—
Multistate, Southern Insurance
Group, Tupelo, MS

1982—1993, *Market*
Development Manager—
Northeast MS, USF&G
Insurance Company, Saltillo,
MS

1980—1982, *Loss Control*
Representative—MS, TN, AR,
& LA, Grain Dealers Mutual
Insurance Company, Pearl,
MS

James Woodall

Business Development/Public Relations

James became affiliated with Cook Coggin Engineers in February 2010. James is responsible for procurement of potential business advancement contingencies while simultaneously serving as publicity liaison for the City of Tupelo, the City of Durant, the Town of Cruger, the Town of Nettleton, the City of Holly Springs, the City of Verona, the Town of Okolona, and the City of Houston, along with several other North Mississippi Municipalities. He also works intimately with Lee, Monroe and Chickasaw Counties in Mississippi. His responsibilities include—delivery and execution of legal and professional documents required for conducting business, collaborating with local officials and business professionals regarding adept matters imperative to the prosperity of the community, and serving as intermediary on a proficient level for those entities represented by Cook Coggin Engineers, Inc. James also facilitates the perpetuation of current business and acquiring new business within the populace. Since joining the CCE team, James has worked closely with the City of Tupelo and its Alderman on multiple projects. James assists the City in development endeavors and is familiar with the City's ongoing and long-term goals for industrial development, community development, and City improvement projects.

Relevant Experience

Responsible for procurement of potential business advancement contingencies while simultaneously serving as publicity liaison for Lee, Monroe, Chickasaw, Union, Prentiss, and Pontotoc Counties in Mississippi. Duties include:

- Impartment and execution of legal and professional documents required for conducting business
- Collaborating with local officials and business professionals regarding adept matters imperative to the prosperity of the community
- Serving as intermediary on a proficient level for those entities represented by Cook Coggin Engineers, Inc.
- Perpetuation of current business and acquiring new business within the populace



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