



Letter of Interest

Pre-Qualification for County Engineering Services

Engineering Contract No. 1813

July 29, 2016



July 29, 2016

Ms. Jennifer Mason, Purchasing Manager
Oklahoma Department of Transportation
420 W. Main Street, Suite 700
Oklahoma City, Oklahoma 73102

Re: **Solicitation of Interest: EC-1813 - Pre-Qualification for County Engineering Services**

Dear Ms. Mason:

Thank you for the opportunity to be considered to serve the Oklahoma Department of Transportation (DOT) and each County in Oklahoma. Pursuant to the latest request, I am proud to offer our professional services to the DOT for the July 2016 Solicitation of Interest (EC-1813). Attached please find Cowan Group Engineering, LLC (CGE) letter of interest and supporting documentation.

Our team has over 150 combined years of experience in civil engineering. Our main office is located in the Oklahoma City metro area and our satellite office is located in the Tulsa metro area. With the two offices we will be able to respond to any County within a matter of hours, given our company size. The team has grown with additional roadway and structural personnel because we have a vested interest in the success of each County in the State of Oklahoma. Our team is prepared to serve the Counties with its skilled local professionals and will be able to meet or exceed each Counties expectations as well as realize a savings and minimize the risk because of the following:

- ✓ Local Oklahoma Company with Diverse experience
- ✓ The team depth of key personnel and Quality Control Plan
- ✓ Proven communications with attached references
- ✓ Key contacts with other agencies
- ✓ Qualified Team and "hands-on" experience
- ✓ Current availability and close office location

CGE has elected to team with Terracon Consultants (Geotechnical), Meshek & Associates (Hydrology), Lee Engineering (Traffic) and Enercon Services, Inc. (Environmental) to round out our team. Enercon Services will provide any additional Environmental work required that will not be covered by ODOT. Meshek will fulfill any DBE goals required

for County work that will have Federal DBE requirements. The team has excellent communication and highly developed management skills with strong organizational abilities. Our team has a strong sense of resolve, but understands the advantages of delegating to competent staff. Together, the team brings a positive "can-do" attitude and spirit to reduce the risk for the Counties on construction costs and engineering fees. The key for this savings is our availability, diverse local experience, candid listening, expert knowledge, and key relationships within the industry.

The team's previous experience will ensure the proper design for any County project, from providing safety improvements by adding shoulders and minor alignment changes to complete reconstruction on a revised alignment as required by any project. Designing bridge replacement project or bridge rehabilitation projects can be done by the team. Studies, reports, inspections, coordination with other agencies and municipalities are areas that the team has been proficient on in the past. This team has met all challenges on previous projects with the proper combination of experience and determination, and kept the projects within the budget.

CGE looks forward to the opportunity to serve the Counties and the DOT, and anticipates discussing the opportunity with you in greater detail. Thanks for your attention and should you have any questions please contact the undersigned.

Sincerely,

COWAN GROUP ENGINEERING, LLC



Jeff Cowan, PE

President / CEO

Enclosures

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“We are very pleased with their quality of work, timeliness of completing contract milestones and the communication shown by all of their team members.”

- Darian L. Butler, Pre-Construction Engineer, Oklahoma Turnpike Authority

Firm Profile



FIRM NAME

Cowan Group Engineering, LLC

BUSINESS INFORMATION

Oklahoma City Location
7100 N. Classen, Suite 500
Oklahoma City, OK 73116
t: 405.463.3369

Tulsa Location
5416 S. Yale, Suite 210
Tulsa, OK 74135
t: 918.949.6171

PRINCIPAL CONTACTS

Jeff Cowan, PE
jeff@cowangroup.co

Barrick Rosenbaum, PE, CFM
barrick@cowangroup.co

STAFF

13 Professional Engineers
4 Certified Floodplain Managers
3 Professional Land Surveyors
26 Total Employees

OUR MISSION









As Oklahomans, we know the lay of the land, and we use that knowledge to serve our state as effective engineers who manage resources and build sustainability.

HISTORY

Cowan Group Engineering, LLC (CGE) was founded in 2012 and is a privately held, professional engineering services firm with offices in Oklahoma City and Tulsa. From these two local locations we are able to serve clients throughout Oklahoma with quality and timely service. Our clientele include City, County and State governments, developers, architects, and other engineering firms.

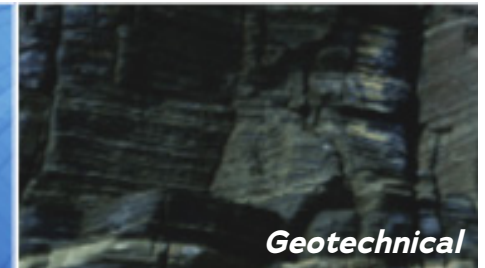
ENGINEERING SERVICES

CGE's key services involve civil engineering design, water resources, transportation, land survey, land planning, site design for commercial and residential projects, and construction management. CGE offers a full range of civil engineering services from project planning to final record drawings.

 WATER RESOURCES	 TRANSPORTATION	 STRUCTURAL	 CIVIL ENGINEERING
<ul style="list-style-type: none"> Water Modeling Water Distribution Storage and Treatment Groundwater Evaluation Wastewater Collection Wastewater Treatment Pump Stations Storage Reservoirs Wetlands Creation Wetlands Maintenance Rate Studies Evaluations 	<ul style="list-style-type: none"> Streets and Intersections Urban and Rural Highways Drainage Plans Bridge Structures Traffic Engineering Bike Paths Construction Administration Turnpikes and Toll Plaza 	<ul style="list-style-type: none"> Commercial Design and Structural Inspection Residential Design and Structural Inspection Structural Evaluation and Rehabilitation Sound Wall and Retaining Wall Design Bridge Design Dam Inspections Shop Plan Review and Prep Metal Building Foundation Design Water and Wastewater Plant Design Industrial Foundation Design 	<ul style="list-style-type: none"> City Engineering Civil and Site Design Commercial Development Residential Development Drainage Planning Stormwater/FEMA Studies Sanitary Sewer Systems Water Distribution Systems Construction Administration Shop Drawing Review Site Observation Bidding and Negotiation Contract Documents
	 LAND SURVEY		 OTHER
 PLANNING	<ul style="list-style-type: none"> Boundary Control Topographical Land Survey Flood Survey Graphic Renderings Site Evaluation Studies Building Scanning 	 GRANT APPLICATION	<ul style="list-style-type: none"> Program Management Scheduling Design Development
<ul style="list-style-type: none"> City Planning Project Pro Forma Land Planning and Design Graphic Renderings Site Evaluation Studies 		<ul style="list-style-type: none"> Acting as Administrator Assist with Administration Form Completion 	

Firm Profile

Terracon



Terracon is an employee-owned engineering consulting firm specializing in Environmental, Facilities, Geotechnical and Construction Materials Testing. We appreciate the opportunity to be your firm of choice to provide geotechnical services. With 16 engineers between our Oklahoma City and Tulsa offices, Terracon maintains the largest geotechnical presence in the state of Oklahoma.

Terracon understands that geotechnical services must be rendered with reference to applicable AASHTO and ASTM specifications, and by the ODOT

specifications for the Geotechnical Investigation of Roadways, Bridges and Related Structures. Terracon has completed hundreds of geotechnical projects for ODOT and various Engineering Consultants over the past several years. We have completed projects on all of the OTA turnpikes and on ODOT funded projects in almost every county in the state of Oklahoma, which has made us intimately familiar with subsurface conditions across the state. We also understand the unique drilling and engineering requirements in each part of the state.

Types of projects that we have been involved in include, but are not limited to:

- Roadway Coring Projects
- Bridges (THD cone and LRFD)
- Retaining Walls
- Mechanically Stabilized Earth Walls
- High Mast Lights
- Pavement and Subgrade Survey
- Shoulder Survey
- New alignments
- Rock cuts
- Slope stability analysis
- Pedological surveys
- Falling Weight Deflectometer (FWD) surveys

Corporate Headquarters

18001 W. 106th St., Suite 300
Olathe, KS 66061
Phone: (913) 599- 6886
Fax: (913) 599-0574
www.terracon.com

Oklahoma City

4701 N. Stiles Ave.
Oklahoma City, OK 73105
Phone: (405) 525-0453
Fax: (405) 557-0549
www.terracon.com

Tulsa

9522 E. 47th Place, Unit D
Tulsa, OK 74145
Phone: (918) 250-0461
Fax: (918) 250-4570
www.terracon.com

Firm Profile



OUR HISTORY

Owner and CEO, Jim Lee, PhD, PE, PTOE, was motivated to start a firm specializing in traffic engineering after experiencing dissatisfaction with the traffic engineering knowledge offered by consultants while working “on the other side of the table” for the public sector. According to Dr. Lee, firms for which traffic engineering is one of many services offered are unlikely to provide the level of knowledge and experience needed for our increasingly complex traffic situations. In 1988, Lee Engineering was formed to provide that specialty traffic engineering service to clients.

WHO WE ARE

Lee Engineering, LLC (LEE), is a specialized Traffic Engineering and

Transportation Planning firm dedicated to providing exceptional services to clients for over 27 years. Our team of highly skilled engineers have focused their careers on traffic through hands-on experience and concentrated education. Utilizing our expertise and state of the art equipment, Lee Engineering investigates progressive solutions for each project. Our passion for improving the way people, goods, and services move throughout our communities is apparent in each of our projects.

OUR TEAM

Lee Engineering boasts a robust team of engineers with concentrated careers in traffic and transportation. Seventy six percent (76%) of LEE’s professional registered engineers are Professional Traffic Operations Engineer’s (PTOE’s). As a small, flexible firm, we can quickly execute analyses and derive solutions. LEE gives our clients special attention and focus on the details that matter.

LEE has a long and proud history of providing Traffic and Transportation Engineering services throughout the southwest and more recently in Oklahoma. LEE has worked in numerous Oklahoma communities through contracts such as the On-Call Citywide Traffic Engineering Services – Oklahoma City, ODOT Statewide Fiber Optic Broadband and Community Anchor Network, and ODOT Safe Routes to School Non-Infrastructure Services.

-76% PTOE RATE-
Seventy-six percent
of Lee Engineering’s
PEs are
**Professional Traffic
Operations
Engineers**

Specialized Expertise

We live and breathe traffic. As a specialized firm we focus on the details that make projects excellent. Our philosophy of doing *the right thing - the right way - the first time* saves our clients time and money.

Innovative Solutions

No two projects are alike. We provide customized services tailored specifically to your needs by dedicating the time and resources necessary to explore various solutions to each project.

Responsive Client Services

Our clients are our greatest priority. We manage based on the principle that frequent and pro-active communication with the client is paramount to the success of any project.

Firm Profile

Predict. Prioritize. Prepare. Prevent.

Meshek & Associates, PLC (Meshek), founded by Janet Meshek, PE, CFM, is dedicated to providing superior consulting engineering services and GIS solutions to public and private clients. Meshek is certified as a Disadvantaged Business Enterprise (DBE) by the Oklahoma Department of Transportation and is an active participant in the Building Resources in Developing & Growing Enterprises (BRIDGE) Program through the City of Tulsa.

Our office, located in Tulsa, Oklahoma, offers a professional staff of registered engineers, engineering designers and drafters, licensed surveyors, right-of-way professionals, construction inspectors and GIS professionals. Services include:

Hydrologic & Hydraulic Engineering

Meshek specializes in master drainage planning, bridge hydraulics and stormwater engineering using sound environmental practices. We understand cities and the processes needed to successfully plan, engineer and implement a water resource management program.

Civil & Roadway Design

Using our combination of roadway and drainage design expertise, assisted by R/W professionals, experienced construction managers, and GIS resources, Meshek is uniquely qualified to engineer, plan and execute transportation-related projects to the highest standards.

Geographic Information Systems (GIS)

Whether it is utility mapping, data analysis, or the development of specialized applications for webviewers and mobile devices, Meshek GIS professionals are dedicated to the preparation of mapping products custom-designed to the client's needs.

Utility Engineering & Mapping

Our Utility Engineering experience includes water, sewer and stormwater infrastructure design and construction inspections services with project scopes ranging from small to multimillion-dollar projects.

Professional Land Surveying

Employing cutting-edge technology and seasoned land surveyors, we provide the highest quality land surveying services to our clients.

Land Acquisition Services

Whether acquiring R/W for construction projects or mitigating flood properties before the next disaster, Meshek offers a team of experienced R/W professionals, recognized by ODOT and IRWA, to assist your community with its Land Acquisition needs.

Firm Profile



ENERCON

Excellence—Every project. Every day.

ENERCON is an employee-owned company with local offices in Tulsa and Oklahoma City. We employ over 100 environmental professionals in Oklahoma including 12 biologists and wetland scientists, 10 cultural resource specialists, 10 Initial Site Assessment writers, and 3 transportation noise specialists. We also provide services nationwide from 26 regional offices and are ranked by Engineering News Record as one of the nation's top environmental firms.

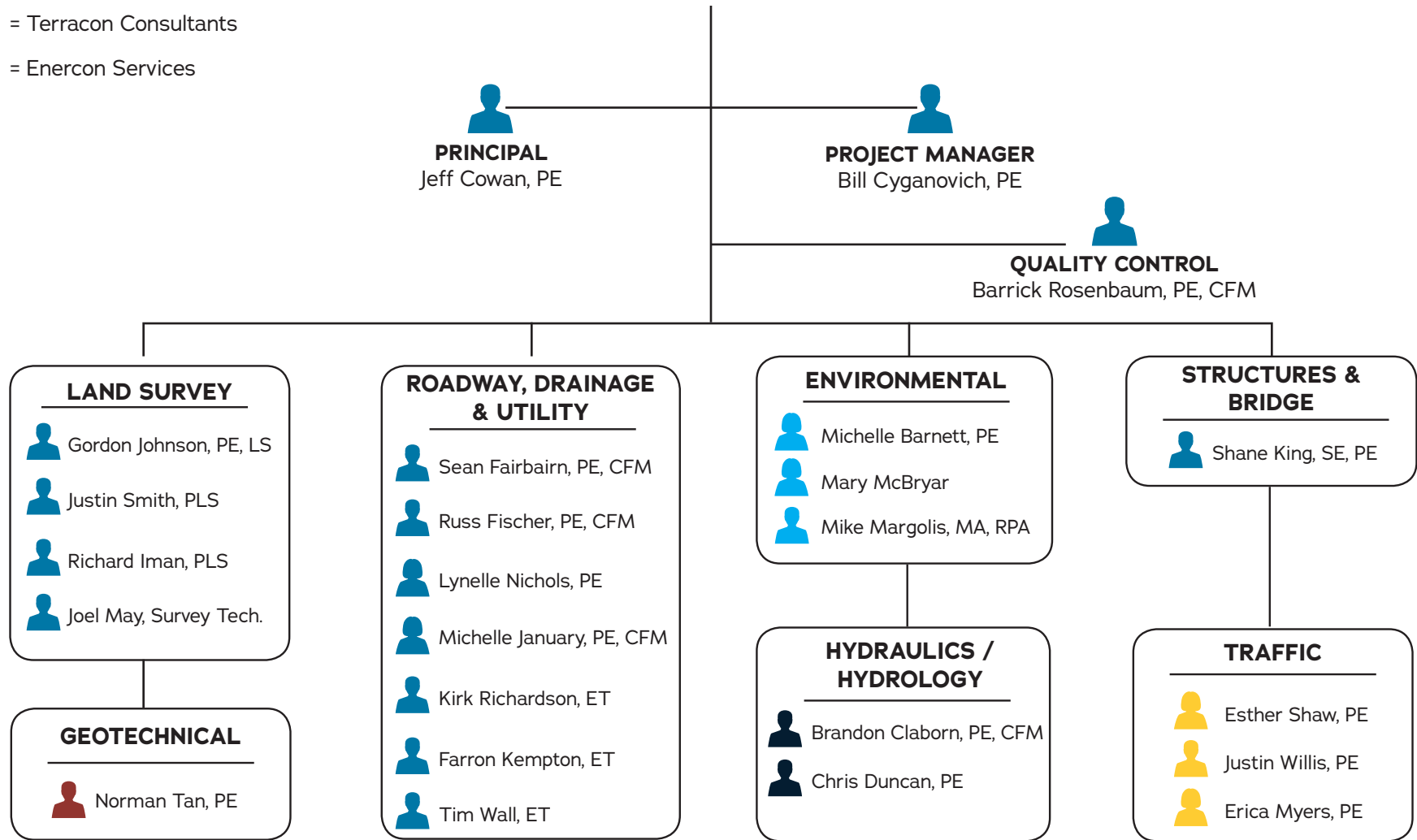
ENERCON has been a long-term provider of services to ODOT under Statewide On-Call, County Improvements to Road and Bridges (CIRB), and Local Government contracts. As such, we are knowledgeable of ODOT and FHWA policies for federally funded projects. We have long-standing relationships with the ODOT Division Engineers as well as our Oklahoma engineering firms, including Cowan and its staff. We pride ourselves on working as an extension of your staff to provide expedited turnaround for key roadway and bridge projects.

Enercon Services
5100 East Skelly Drive, Suite 450
Tulsa, Oklahoma 74135
918.984.6804
www.enercon.com

Organizational Chart



-  = Cowan Group Engineering
-  = Lee Engineering
-  = Meshek & Associates
-  = Terracon Consultants
-  = Enercon Services





JEFF COWAN, PE

PRINCIPAL



Experience
25 Years



Education
B.S., Civil Engineering,
Oklahoma State
University



Registrations
Professional Engineer
Oklahoma PE #18102
North Carolina PE
#30572



Affiliations
American Society of
Civil Engineers
National Society of
Professional Engineers

Oklahoma Turnpike Authority - Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43): Interchange for the Muskogee Turnpike and SH-51 reconstruction including new Cash Toll Plazas, PikePass lanes and minor reconfiguration of the ramp egress and ingress. Work included pavement rehabilitation/reconstruction, drainage, traffic changes, changing location of the Cash Toll Booths and PikePass lanes, and construction traffic control.

Oklahoma Turnpike Authority - Eufaula Toll Plaza: Project Manager responsible for the design of roadway, ramps, bridge, and toll Plaza. Project included coordination of many sub-contractors, survey, preparation of contract documents and specifications.

City of Tuttle - SW 3rd Street Widening: Project Manager responsible for the final plans and specifications for SW 3rd Street. Project included seven blocks of roadway widening, drainage improvements, utility relocation, off-site drainage, survey and geotechnical.

City of Tuttle - South Cimarron Road: City Engineer responsible for the final plans and specifications for Cimarron and SH 37 improvement project. Project included road widening, traffic signal improvements, survey, right of way documents and acquisition, and survey.

City of Broken Arrow - 9th Street Widening: Project Manager responsible for the final plans and specifications for 9th Street widening. Project included one mile of roadway widening, bridge box, drainage improvements, traffic signal improvements, survey, and geotechnical.

City of Oklahoma City - Eastern Avenue at Grand Boulevard: Project Engineer responsible for the final plans and specifications of Eastern Ave. Project included roadway widening, drainage improvements, and signal improvements at Grand Blvd. Estimated construction cost: \$3.1 million.

Oklahoma Department of Transportation - SH-51 Roadway and Bridge: Design coordination of SH 51 Bridge and roadway over Harrington Creek near the City of Stillwater, OK. Project entailed preparation of final construction plans for the bridge replacement, RCB bridge extension and special provisions for roadway rehabilitation, shoo-fly alignment, drainage structures, grading, channel improvements, and traffic improvements.



BILL CYGANOVICH, PE

PROJECT MANAGER



Experience
40+ Years



Education
B.S., Civil &
Environmental
Engineering, Clarkson
University
A.S., Engineering
Science, Alfred State
College



Registrations
Professional Engineer
Oklahoma PE #16099



Affiliations
American Public Works
Association

Oklahoma Department of Transportation - US-63 over Cane Creek: This project started as a replacement of a span bridge on US-62 west of Muskogee. At the project scoping, it was determined to rehabilitate the bridge by replacing the superstructure and deck, as the substructure and width were adequate. The existing bridge had full shoulders and was a continuous steel beam structure. The rehabilitated bridge will have the same shoulder width but will be a simple span bridge. The substructure needed some minor repairs. The piers were widened to accommodate the additional line of bearings which the continuous structure only had one. \$1.6 million project.

Oklahoma Department of Transportation - SH-10 over Little Green Leaf Creek: Replace span bridge with new span bridge on new alignment to the west of the existing bridge. Raised bridge about 5 feet to allow for small boats to travel beneath the bridge. Built a new approach causeway into a lake which is part of the navigational system from Tulsa to the Mississippi River. Use the existing bridge and approaches as a detour. Roadway width is 2 lanes with full shoulders, even across the bridge. Had a State Park entrance at the south end of the bridge. Provided fish habitat items and wetland expansion as part of the project. \$6 million project.

Oklahoma Department of Transportation - SH-16 over Chicken Creek: Replace span bridge with multi-cell box bridge over Chicken Creek near Slick, OK. Bridge on new alignment east of existing bridge. Approach roadway was about 1 mile in length total and included a second box bridge that

was replaced at a lower flow line elevation. Added shoulders and designed the road for 65 mph. Responsible for all roadway and bridge design. \$6 million project.

City of Tulsa - Peoria Avenue & US-75 Interchange: The interchange is a half interchange with northbound off and south bound on ramps. It needed a traffic signal for the northbound off ramp and a left turn lane for the southbound on ramp. The traffic signal was designed with minimal street work; the on ramp was moved to the north to allow for a small left turn lane on Peoria by widening to the east. The west curb line was moved to the west north of the on ramp to serve as a right turn lane. A large part of the project was coordination between the City and ODOT. \$1.2 million project.



BARRICK ROSENBAUM, PE, CFM

QUALITY CONTROL MANAGER



Experience

26 Years



Education

B.S., Civil Engineering,
Texas A&M University



Registrations

Professional Engineer
Oklahoma PE #17230
Certified Floodplain
Manager OK-13-00011



Affiliations

American Water Works
Association
Oklahoma Floodplain
Managers Association

City of Broken Arrow - Bass Pro Drive / Albany Street:

5-lane arterial street to accommodate Bass Pro Shop site and adjacent developments (includes 12" arterial street waterline design for Albany Street.) Engineering design and construction plans for a project which included multiple redesigns due to project constraints for grades, gas lines, storm water. Estimated cost: \$2.5 million.

City of Broken Arrow - Arterial Street Widening for 3-lane Elm Street from Tucson to Jasper:

Engineering design, construction plans and traffic control for widening Elm Street to 3 lanes. This project includes all facets of arterial street widening including overlays, pavement widening, storm sewer design, striping, traffic control and utility relocations.

City of Tulsa - Apache Street Rehabilitation:

Engineering and design for construction plans for a street rehabilitation project along Apache Street in Tulsa. Included street rehabilitation and pedestrian access improvements.

City of Tulsa - Non-Arterial Street Rehabilitation Maintenance Zone 4067:

Engineering and design for construction plans for a non-arterial street rehab project in Tulsa. Included street rehabilitation, water lines, storm sewers and pedestrian access improvements including sidewalks and accessible ramps

City of Tulsa - Citywide Bridge Rehabilitation:

Principal-in-charge of engineering and design for construction plans for numerous City of Tulsa bridge and box culvert rehabilitations. Includes field inspections, alternative repairs, construction plans and bidding packages.

City of Tulsa - Citywide Street Rehabilitation:

Principal-in-charge of engineering and design for construction plans for numerous City of Tulsa street rehabilitations. Includes alternative repairs, construction plans and bidding packages for multiple City streets.

City of Tulsa - 81st Street Rehabilitation:

Principal-in-charge of engineering and design for construction plans for a street rehabilitation project along 81st Street in Tulsa. Included street rehabilitation, storm sewer, box culvert improvements and pedestrian access improvements.

City of Tulsa - Non-Arterial Street Rehabilitation Maintenance Zone 2056:

Engineering and design for construction plans for a non-arterial street rehab project in Tulsa. Included street rehabilitation, water lines, storm sewers and pedestrian access improvements including sidewalks and accessible ramps.



SEAN FAIRBAIRN, PE, CFM

TRANSPORTATION DESIGNER



Experience

7 Years



Education

B.S., Civil Engineering,
Oklahoma State
University



Registrations

Professional Engineer
Oklahoma PE #26901
Certified Floodplain
Manager OK-13-00011



Affiliations

American Society of
Civil Engineers
Oklahoma Floodplain
Managers Association

Oklahoma Turnpike Authority - Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43):

Interchange for the Muskogee Turnpike and SH-51 reconstruction including new Cash Toll Plazas, PikePass lanes and minor reconfiguration of the ramp egress and ingress. Work included pavement rehabilitation/reconstruction, drainage, traffic changes, changing location of the Cash Toll Booths and PikePass lanes, and construction traffic control.

City of Tuttle - South Cimarron Road: Planning and design of ½ mile of urban street from Southpointe Drive to SH 37. Typical section includes two-lane curb and gutter, underground storm drainage (ADS pipe specification), RCB, right-of-way coordination, utility coordination, traffic and sequencing. Project included

water and sanitary sewer relocation within the bid package to minimize the street construction time.

City of Broken Arrow - Dallas Street: Engineer responsible for the planning and design of six urban blocks of roadway widening, sidewalks, closed storm sewer system, signing, striping and waterline relocation for 1600 LF.

Oklahoma Department of Transportation - Cow Creek: Design coordination of US 64 bridge replacement over Cow Creek in the City of Perry, Oklahoma. Project entails preparation of final construction plans and special provisions for bridge design, roadway rehabilitation, drainage structures, grading, channel improvements, and traffic improvements.

Oklahoma Department of Transportation - Black Bear Creek:

Design coordination of US 77 bridge and roadway over Black Bear Creek near Perry, OK. Project entailed preparation of final construction plans and special provisions for roadway rehabilitation, new alignment, new bridge, drainage structures, grading, channel improvements, and traffic improvement.

City of Broken Arrow - Iola and Cedar Street:

Engineer responsible for the planning of urban roadway, drainage improvements and 5,000 LF of waterline relocation.

Oklahoma Turnpike Authority - Eufaula Toll Plaza:

Engineer responsible for the planning and design of the Indian Nation Turnpike and State Highway 9 Interchange, which included drainage, horizontal alignments and toll plaza development.



LYNELLE NICHOLS, PE

TRANSPORTATION DESIGNER



Experience

9 Years



Education

B.S., Civil Engineering,
University of Colorado,
Boulder



Registrations

Professional Engineer
Oklahoma PE #25502

Oklahoma Turnpike Authority - Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43):

Interchange for the Muskogee Turnpike and SH-51 reconstruction including new Cash Toll Plazas, PikePass lanes and minor reconfiguration of the ramp egress and ingress. Work included pavement rehabilitation/reconstruction, drainage, traffic changes, changing location of the Cash Toll Booths and PikePass lanes, and construction traffic control.

Oklahoma Turnpike Authority - Eufaula Toll Plaza along Indian Nation Turnpike and SH-9 (IN-MC-54):

Interchange for the Indian Nation Turnpike and SH-9, new roadway alignments, ramps, bridge, toll plaza development, drainage, traffic and construction traffic.

City of Ada - Arlington Street: As Project Engineer, responsible for planning and design for 4-lane divided alignment street widening, drainage, decorative paving, retaining walls, ADA sidewalks and lighting. Prepared construction plans and specs.

City of Shawnee - Waldon Road at the CPN Campus:

Developed typical sections and planning documents for 2,000 linear feet of street improvements.

Oklahoma Department of Transportation - I-240/I-40 to Choctaw Road:

Provided engineering support in the conceptual design phase of the project including interchange layout analysis and development of preliminary alignments and profiles to assess the constructibility of three different conceptual designs.

Oklahoma Department of Transportation - I-40 and US-64:

Responsibilities included geometric design and roadway modeling of the interchange ramps and interstate mainline.

City of Tulsa - Gilcrease Northwest Expressway:

Responsibilities included ramp alignment and profile design, responding to owner's comments and critiques, design documentation and calculation verification, preliminary right-of-way plans, designing a conceptual interim roadway, and creating the engineering design report for the functional design and right-of-way plans for over 5 miles of freeway on new alignment. The project design needed to comply with City of Tulsa, Oklahoma Department of Transportation and AASHTO standards, and includes four freeway to arterial interchanges, one freeway-to-freeway interchange, frontage roads, a bicycle/pedestrian trail, corridor modeling, super-elevation calculations and signing and striping plans.



GORDON JOHNSON, PE, LS

SURVEY MANAGER



Experience

40+ Years



Registrations

Professional Engineer
Oklahoma PE #26901
Land Surveyor
Oklahoma LS #1291



Affiliations

American Society of
Civil Engineers

Mr. Johnson is the Lead Survey Manager for Cowan Group Engineering and responsibilities includes managing a broad range of survey projects including water resources, transportation, bridges, civil/site, as-built surveys, legal research and boundary control. Directs field crews and manages CAD / drafting personnel in connection with field boundary surveys and topographical surveys, infrastructure design surveys, control networks, utility rehabilitation, FEMA flood elevation and control. His previous experience is as follows:

Oklahoma Turnpike Authority - Director of Engineering and Construction:

Managed the Turnpike program in securing design engineers, managed OTA staff, prepared annual budgets and

project programming. Worked closely with the Secretary of Transportation and Turnpike Members for OTA direction, budgets and management of the State of Oklahoma's Turnpike system.

Oklahoma Department of Transportation - Division Chief Surveyor:

Managed eight (8) survey divisions in the State of Oklahoma. Responsible for budgeting, policy development, equipment and software, and overall direction for all surveys in the State of Oklahoma.

Oklahoma Department of Transportation - Division Engineer Local Government:

Coordinated and managed the local government staff members as well as the state-wide local government program with County and City governments.

Oklahoma Department of Transportation - Division Six Engineer:

Responsible for the operation of all construction and maintenance activities within the division and provided engineering supervision for those activities, preparing and or assisting in the preparation of the division construction work program and the division preventive maintenance program for both bridges and roadways, selected consultants and administered the contracts management and design projects, conducted scoping, plan-in-hand, pre-work, and final inspections of all projects in the division, prepared and managed an annual budget, developed and implemented division policies, corresponded with the public, media, contractors, consultants, state and local agencies, and other ODOT personnel to insure that projects and programs were completed in the best interest of the taxpayers.



RUSS FISCHER, PE, CFM

LEAD DESIGNER



Experience
27 Years



Education
M.S., Civil Engineering, Oklahoma State University
B.S., Construction Administration, University of Wisconsin



Registrations
Professional Engineer Oklahoma PE #21917



Affiliations
American Society of Civil Engineers
OK Floodplain Manager's Association

City of Tulsa - Maintenance Zone #1073: Project involves municipal residential street maintenance and repair. Some sections of the street require complete reconstruction; other areas require patching, then milling and overlaying with new asphalt. Segments of the existing curb and gutter will be replaced and curb inlets improved to current city criteria.

City of Tulsa - Maintenance Zone #1006: Project involved repairs and reconstruction of asphalt and concrete residential and collector streets. Storm sewer work involved curb inlet improvements and pipe capacity. Scope of services also included \$1 million of water main replacement. Project involved repairs and reconstruction of asphalt and concrete residential and collector streets. Storm sewer work

involved curb inlet improvements and pipe capacity. Scope of services also included \$1 million of water main replacement.

City of Tulsa - Maintenance Zone #3009: Residential street reconstruction of existing asphalt and concrete neighborhood streets. Storm sewer improvements and curb inlets provided per current city criteria. Also provided was the replacement of several existing sanitary sewer lines and a number of water mains in the neighborhood.

City of Tulsa - 36th and Lewis Intersection Improvements: Arterial street intersection improvements that included intersection expansion to provide for additional through lanes and turning lanes, enhanced signalization providing pedestrian safety elements and storm sewer improvements.

Oklahoma Department of Transportation Local Government - City of Norman, 12th Avenue SE Improvements: Arterial street expansion from 2 lanes to 5 lanes, including improvements to the intersection with SH-9. The project included traffic study, signalization, utility relocations, bicycle lanes, and coordination with adjacent private development.

Oklahoma Department of Transportation Local Government - City of Enid, Cleveland Boulevard Improvements: Arterial street improvements to a one-mile segment of municipal streets, including storm sewer and water main installations. The project included elements for future commercial and multi-family large scale developments.



MICHELLE JANUARY, PE, CFM

TRANSPORTATION DESIGN



Experience
16 Years



Education
B.S. (Honors), Civil Engineering, The Queen's University of Belfast, UK
M.S., Civil Engineering in Structures, University of Oklahoma



Registrations
Professional Engineer Oklahoma PE #22153
Certified Floodplain Manager OK-08-00016

Oklahoma Turnpike Authority - Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43): Interchange for the Muskogee Turnpike and SH-51 reconstruction including new Cash Toll Plazas, PikePass lanes and minor reconfiguration of the ramp egress and ingress. Work included pavement rehabilitation/reconstruction, drainage, traffic changes, changing location of the Cash Toll Booths and PikePass lanes, and construction traffic control.

Oklahoma Department of Transportation - US-59 over Little Salisaw Creek, Sequoyah County: Project included design and preparation of construction plans for 0.9 miles of roadway and four bridges totaling 980' long. Highway was upgraded to a 4-lane divided highway using PCCP.

McCurtain County - Over Little River west of Wright City: Project included design and preparation of construction plans for bridges and approach roadway (U.S. 98).

Bryan County - NS-366 South of US-70: Project included design and preparation of construction plans for 3.0 miles of roadway reconstruction.

LeFlore County - Bridge and Approaches over Sugarloaf Creek: Project entailed design and preparation of construction plans for approach roadway (U.S. 83) and 165-foot long bridge. Bridge was designed on horizontal curve.

Pushmataha County - Bridge and Approaches over Buzzard Creek: Project included design and construction plans for bridges and approach roadway. Bridge was designed on a horizontal curve.

EW-211 County Road over Horse Creek - East of Grant, Choctaw County: Project entailed design and preparation of construction plans for bridge and approaches.

City of Oklahoma City - South Portland Ave Relocation: Project included intersection improvements to S.W. 74th Street and provisions for the widening and improvement of the roadway, drainage and utility relocation

ODOT, Reconstruction of SH 6, Kiowa and Beckham Counties, OK: This project was a reconstruction of SH 6 to provide a 4-lane divided highway, beginning 5.7 miles south of the SH 55 East junction and extend north 5.5 miles. Responsible for drainage analysis for all 10 existing RCBs crossing SH 6, included the four 10.25' x 12.5' x 10.25' x 6' RCB that is classified as a bridge.



SHANE KING, SE, PE

STRUCTURAL DESIGN ENGINEER



Experience

18 Years



Education

B.S., Civil Engineering,
University of Oklahoma
M.S., Civil Engineering,
University of Oklahoma
M.S., International
Agriculture, Oklahoma
State University



Registrations

Professional Engineer
Oklahoma PE #2131
Professional Engineer
Kentucky PE #25201
Model Law Structural
Engineer, NCEES
#30216

US Army Corp of Engineers - Afghanistan Truss:

Engineered custom trusses for USAF Building in Kandahar, Afghanistan. Original plans called for bar joist roof, which were too costly to ship to Afghanistan. Engineered roof structure including joists, girders, etc. with indigenous materials.

Bell Aire Motel - City of Okmulgee: Design and engineering of 1 ½ story, 2,400 square foot motel in Okmulgee, Oklahoma. Engineered foundation, slab, beams, shear walls, roof structure, etc., for wood-framed construction.

Charlie's Chicken Restaurant - City of Tahlequah: Design and engineering for foundation, shear walls, framing and roof structure of 4,000 square feet

Charlie's Chicken restaurant in Tahlequah, Oklahoma. Signal improvements at Grand Blvd. Estimated cost \$3.1 million

Farm Bureau Building - Okmulgee County: Design and engineering for 6,800 square foot strip office building in Okmulgee, OK. Engineer of record for foundation, slab, etc. for pre-engineered metal building.

Nursing Home - City of Owasso: Design and engineering of 50,000 square ft. retirement home in Owasso, OK. Engineered foundation, slab, beams, shear walls, roof structure, etc., for wood-framed structure.

Wilkins Nursing Home Expansion - City of Duncan: Design and engineering of 3,500 square ft. expansion

for nursing center in Duncan, OK. Engineered foundation, slab, shear walls, roof framing, etc., for wood-framed building.

Sooner Suds Car Wash - City of Moore: Design and engineering of 6,400 square ft. car wash facility in Moore, OK. Engineered stem walls, trench drains, foundation, slab, columns and beams for steel structure.

Reeds Woods Office Building - City of Tulsa: Design and engineering of 5,000 square feet office building in Aspen Creek, Tulsa, OK. Engineered foundation, slab, shear walls, roof framing, etc. for wood-framed building.



JUSTIN SMITH, PLS

LAND SURVEY & GIS



Experience

12 Years



Education

Associate of Applied
Science in Surveying
Technology, OSU-OKC
Associate of Applied
Science in Technology,
Seminole State College



Registrations

Professional Land
Surveyor Oklahoma
PLS #1868



Affiliations

Oklahoma Society of
Land Surveyors
National Society of
Professional Surveyors

Mr. Smith has extensive experience in land survey and manages the specific project research for transportation, streets, highways, bridges, and general civil projects. His expertise and background is field and office survey, platting, and is very proficient at ESRI ArcGIS.

- ✓ Boundary, property and ALTA surveys
- ✓ Road and bridge surveys
- ✓ Proficient at AutoDesk Civil 3D and Micro Station V8i.
- ✓ Layout and design for road alignments and vertical profiles
- ✓ Design of complex drainage structures and closed pipe systems
- ✓ Layout and CADD for span bridges

- ✓ Detail and draw water lines, sanitary sewer alignments and profiles
- ✓ ESRI ArcGIS company and files and drawings
- ✓ Topographic land surveying

Mr. Smith is the survey crew chief and his role is crew coordination. He has experience with the following:

- ✓ Oklahoma Department of Transportation
- ✓ Oklahoma Turnpike Authority
- ✓ Municipal governments statewide
- ✓ Private developments

Oklahoma Turnpike Authority, Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43): Full topographic survey of approximately 100 acres, setting of 3 control points and performed Static GPS sessions to obtain State Plane coordinates and elevations. Additionally, recreated CRL and existing R/W using deeds, plans and drawings.

City of Broken Arrow - Dallas Street: Approximately 1,600 feet of full topographic survey and right-of-way establishment.

Oklahoma Turnpike Authority - Eufaula Toll Plaza: Coordination of aerial survey along with specific topographic survey, right-of-way, centerline and section establishment.

City of Broken Arrow - Iola and Cedar Street: Approximately 1 mile of full topographic survey right-of-way to right-of-way.

City of Ada - Arlington Street: Over 1,000 linear feet of full topographic survey from right-of-way to right-of-way and right-of-way establishment.



RICHARD IMAN, PLS

LAND SURVEY & GIS



Experience

22 Years



Education

Associate in Surveying Technology, Kansas State University - Salina

Associate in Civil Engineering Technology, Kansas State University - Salina



Registrations

Professional Land Surveyor, OK LS-1939



Affiliations

Oklahoma Society of Land Surveyors

National Society of Professional Surveyors

City of Manhattan; Kansas, West Anderson Ave. (Old Highway 24) and Kimball Ave./Scenic Drive Intersection:

Full topographic survey of approximately 5000 linear feet of West Anderson Ave. and approximately 3000 linear feet of Kimball Ave./Scenic Drive; located visible and sub-surface utilities via Kansas One-Call; recreated existing West Anderson Ave. centerline and Right of Way using old highway 24 plans, deeds, subdivision plats, district court documents; utilized GPS, Total Station Traverse, and conventional auto-level loops to establish project control and tie it to City of Manhattan Control Network; performed section break-downs.

City of Manhattan, Kansas, Denison Ave. and Kimball Ave. Intersection:

Full topographic survey of approximately 7500 linear feet of Kimball Ave., approximately 3000 linear feet of Denison Ave., and approximately 2000 linear feet of College Ave.; located visible and sub-surface utilities via Kansas One-Call; due to the high peak traffic flow at this location, all topographic/cartographic features and utilities from curb to curb were surveyed at night; recreated existing Kimball Ave. centerline and Right of Way using old plans, deeds, subdivision plats; utilized GPS, Total Station Traverse, and conventional auto-level loops to establish project control and tie it to City of Manhattan Control Network; performed section break-downs in four sections, including Section 6, T10S, R8E, which closes on the 1st Guide Meridian East of the 6th P.M. (section is over 9000 feet wide, and includes over 2 dozen government lots)

Ellis County, Kansas; Old Highway 40 from Ellis to Yocemento:

Full topographic survey of approximately 7 linear miles of rural highway between Ellis and Yocemento; located visible and subsurface utilities via Kansas One-Call; recreated existing Highway 40 Centerline and Right of Way using several generations of highway plans, railroad strip maps, deeds, condemnation documents; utilized GPS, Total Station Traverse, and conventional auto-level loops to establish project control and tie it to NSRS; performed section break-downs

Marion County, Kansas; Knighthawk Road Realignment:

Full topographic survey of approximately 1 linear mile of rural county highway; located visible and subsurface utilities via Kansas One-Call; recreated existing Centerline and Right of Way using road records, plans, deeds; utilized GPS, Total Station Traverse, and conventional auto-level loops to establish project control and tie it to NSRS; performed section break-down in 4 sections, including retracement of the 4th Standard Parallel.



ESTHER SHAW-SMITH, PE

TRAFFIC ENGINEER



Experience

12 Years



Education

B.S., Civil Engineering, University of Oklahoma, 2003



Registrations

Professional Engineer Oklahoma PE #23711
Texas PE #118207



Affiliations

ITE, OTEA, ASCE, APWA, SAME

Creek Turnpike and Elm Street Interchange Improvements (Sub consultant to CP&Y, Inc.), Jenks, OK

– Project Manager for the traffic engineering portion of this contract, which proposed a reconfiguration of the Elm Street Interchange in Jenks, OK. The existing geometry is diamond type with two-way frontage roads. The proposed configuration will eliminate one of the three intersections near the interchange, convert the frontage roads to one-way, and provide a Texas turnaround for eastbound traffic. Traffic engineering services included data collection, conceptual alternative review, intersection capacity/operational analysis, Synchro modeling, HCS weaving analysis for entrance and exit ramps, and report writing.

MAPS3 Pedestrian & Sidewalk Improvements Phase I, Projects 1, 2, & 3 (Sub-consultant), Oklahoma City, - Project Manager for this

MAPS3 Sidewalk Improvements project. This project consisted of preparing pedestrian signal crossing plans for eight (8) signalized intersections located in the northwest quadrant of Oklahoma City for Project 1, eight (8) signalized intersections located in the southwest quadrant of Oklahoma City for Project 2, and thirteen (13) signalized intersections located in the north part of Oklahoma City for Project 3. The MAPS3 Sidewalk Improvements projects continue the City of Oklahoma City's efforts to create a more walkable community. Each sidewalk improvement is ideally located in close proximity to an Oklahoma City elementary school. Plans included traffic signal layouts, phase diagrams, and wiring details. Also performed field reconnaissance, worked closely with the prime consultant in determining location and alignment of sidewalks in restrictive areas, and prepared construction cost estimates for pedestrian signal improvements.

Choctaw Nation Headquarters & Tribal Services Development Traffic Impact Analysis - Durant, OK

– Project Manager for development of 120 acres for Choctaw Nation of Oklahoma. The proposed development will consist of a 500,000 sq ft Tribal Headquarters building which will house education services, language development services, human resources offices, CDIB assistance, and other programs; a 130,000 sq ft Tribal Services Clinic which will provide tribal members access to outpatient medical and dental services; a 40,000 sq ft Wellness Center; a Public Safety building houses security and police staff; and a Maintenance/Construction/ Central Supply building serving the maintenance and operations needs of the tribe. Services included are traffic data collection, sight distance verifications, capacity analysis, traffic signal warrant study, and coordination with ODOT. Key issues addressed included accommodating heavy truck traffic on the primary ingress and egress routes due to the adjacent Big Lots Distribution Center and mitigating traffic congestion on US-70 Bypass which provides direct access to the Choctaw Nation Casino and Resort.



NORMAN TAN, PE

GEOTECHNICAL ENGINEER



Experience

19 Years



Education

Doctoral of Philosophy,
Civil Engineering,
University of Oklahoma

M.S., Civil Engineering,
University of Oklahoma

B.S., Civil Engineering,
University of Oklahoma



Registrations

Professional Engineer,
Oklahoma



Affiliations

Chi Epsilon National
Civil Engineering
Honor Society

Mr. Tan is a geotechnical project manager in Terracon's Oklahoma City, Oklahoma, office. His duties include project coordination, engineering analyses, proposal and report preparation, and supervision of field exploration and laboratory testing. He has been involved in geotechnical investigations for commercial buildings, storage tanks, water towers, communication towers, roadways, bridges, retaining walls, etc.

While at the University of Oklahoma, his research involved pressuremeter and cone penetrometer testing in unsaturated soils and was funded by the National Science Foundation. He performed pressuremeter, cone penetrometer, triaxial and soil-water characteristic tests; measured matric suction

of unsaturated soils using miniature tensiometer. As a graduate teaching assistant in Introduction to Soil Mechanics and Laboratory and In-Situ Testing courses, Mr. Tan gained experience in performing a number of laboratory and in-situ tests including, sieve analysis, hydrometer analysis, Atterberg limits, specific gravity, standard and modified proctor, consolidation test, swell test, direct shear test, borehole shear test and pile pull out test.

SH 183 Fifteen-Span Bridge Over S. Canadian River – Dewey County, OK: Provided geotechnical engineering recommendation and results following a subsurface exploration for the proposed fifteen-span bridge.

State Highway 15 – Ellis County, OK: Provided geotechnical engineering recommendations following a pavement distress survey, pavement coring and FWD Testing.

West Bills Creek Bridge, H.E. Bailey Turnpike - Grady County, OK: Reported subsurface conditions, and provided driven pile and drilled pier recommendations based on data obtained by Texas Cone Penetrometer.

Turner Turnpike Pavement Evaluation - Mile Post 136 to Mile Post 146: Performed subgrade survey and pavement evaluation including FWD testing.

MSE Walls, Interstate 40 Realignment - Oklahoma City, OK: Performed bearing capacity, settlement and global stability analysis for MSE Walls.

Turner Turnpike Pavement Rehabilitation- From MP 173-178, Lincoln County, OK: Performed geotechnical engineering analysis and design efforts for the pavement rehabilitation project along the Turner Turnpike. Services included FWD testing, pavement cores, evaluation of existing pavement structure and subgrade soils in order to provide pavement rehabilitation recommendations.

BRANDON CLABORN, PE, CFM

HYDRAULICS / HYDROLOGY ENGINEER



Experience

12 Years



Education

B.S., Biosystems
Engineering, Oklahoma
State University

M.S., Biosystems
Engineering, Oklahoma
State University



Registrations

Oklahoma PE #20914
Certified Floodplain
Manager - OK-03-00007



Affiliations

ACEC (Board Member)
OFMA

Since joining Meshek in April of 2001, Mr. Claborn has been involved in numerous hydrologic and hydraulic studies, stormwater quality and stormwater and drainage design projects. His expertise focuses on the development of hydrologic and hydraulic models to analyze drainage problems and design solutions. This includes using GIS tools to assist in the development of input parameters and process output data. Mr. Claborn was previously employed with the USDA-Natural Resources Conservation Service. He developed engineering designs for landowners in different counties in NE Oklahoma including waste management and non-point source water quality projects. Representative projects include:

EC-1332B - Dewey County Storm Sewer

System: Performed hydrology and hydraulic analysis for all cross drains, driveway culverts and ditches. Detailed hydrology analysis was required due to high infiltration rates and non-contributing drainage areas for six miles US 270 near Oakwood, OK.

EC-1390 - Osage County Drainage Design: Provided hydraulic services for SH11 over Bird Creek in Osage County. Services included drainage area maps, storm sewer system design and a hydrology and hydraulic report detailing the impacts of placing fill in the Bird Creek floodplain.

Master Drainage Plans - Cities of Bartlesville, Claremore, Okmulgee, Owasso, Sand Springs, Sapulpa and the University of Oklahoma: Prepared hydrologic and hydraulic models, using HEC-HMS and HEC-RAS, for existing and fully developed conditions. Provided mitigation solutions and analysis for existing and potential flooding areas including detailed storm sewer analysis and design. Floodplain

and floodway mapping, report documentation, and application generation was generated for submittal to FEMA.

City of Owasso - Drainage Review: Provided detailed drainage reviews of construction drawings, drainage reports and models submitted to the City. Provided additional analysis as needed for drainage problems in the City of Owasso, Oklahoma.

MS4 Stormwater Quality Programs - Cities of McAlester, Owasso and Oklahoma Department of Transportation: Assisted with the development and implementation of their NPDES Stormwater Management Program, including outfall mapping inspection, IDDE and dry weather field screening.

Detention Facilities - Cities of Bartlesville, Bixby, Owasso, Sand Springs: Performed hydrologic and hydraulic analysis, completed 404 permitting process and led preparation of construction plans for several regional detention facilities.

MICHELLE BARNETT, PE

ENVIRONMENTAL ENGINEER



Experience

20 Years



Education

M.S., Civil Engineering,
University of Oklahoma

B.S., Civil Engineering,
University of Oklahoma



Registrations

Professional Engineer,
Oklahoma No. 19083

Provided overall project management for various NEPA and resource specific projects in contract to the Oklahoma Department of Transportation. These included oversight of biological, wetlands, cultural resource, and site assessment activities, preparation of NEPA categorical exclusion documents, and conduct of public involvement programs. These projects were conducted on a statewide basis through multiple contracts including:

EC-1217 Environmental Studies and/or preparation of NEPA documents for projects statewide. Provided project management and oversight of specialist studies (primarily biological and wetland studies) on State highway improvements projects in western Oklahoma.

EC-1219 & EC-1551 General Environmental Engineering Services including Permitting, Environmental Site Assessment, Remedial Planning and Oversight.

EC-1221 Preliminary Engineering and Environmental Assessment for grade separation project at the BNSF railroad and Basin Road/War Bonnett Crossing in the City of Mannford, Creek County, OK. Provided overall project management for development of Preliminary Engineer Report analyzing three alternatives for the grade separation.

EC-1231, EC-1355, EC-1450 & EC-1661 Environmental Studies and coordination for County Improvements to Roads and Bridges (CIRB) program statewide. Provided oversight of specialist studies, public involvement, and preparation of environmental clearance documents.

EC-1299 & EC-1401 Environmental Studies for State Highway projects throughout Oklahoma. Managed multiple task orders through this contract as well as management of biological studies through subcontract agreements.

EC-1337 Environmental Studies subcontractor to Guy Engineering providing overall management of the specialist studies and development of the final environmental document.

EC-1394 Environmental Studies subcontract project manager for NEPA documentation working with 10 engineering firms statewide. Providing biological, cultural resources, initial site assessment, community impacts and public outreach as needed for over 20 State Highway facility improvements and bridge replacements.

“Their professionalism and follow through in all aspects of projects is unlike any other I have experienced in my 25 years of municipal service.”

- Tim Rooney, City Manager, City of Mustang

Relevant Experience



Coweta Toll Plaza

Muskogee Turnpike & SH-51 Interchange, Oklahoma Turnpike Authority

Date of Completion: In-Construction

The CGE Team was selected in the fall of 2015 to provide design services for the Coweta Toll Plaza modernization along Muskogee Turnpike. The scope included developing alternatives to provide a safe alternative to collect tolls. The Turnpike elected Alternative A of which relocates the toll plaza to the north side of State Highway Interchange and allows the PikePass lanes to travel continuously in the middle or main line. Other scope items include access roads, ramp modifications, utility and maintenance buildings. The project budget is \$12 million and is scheduled to advertise and bid in May 2016.

Cimarron Road Improvements

City of Tuttle, Oklahoma

Date of Completion: 2012

South Cimarron Road – Phase 2 project was a grading, surfacing, and erosion control project from Main Street (SH 37) south one-half (1/2) mile to Southpointe Drive. The project was a part of an ACOG project where the City of Tuttle partnered with ODOT to assist with construction costs. The scope of work included providing ODOT with a NEPA report, utility and right-of-way coordination, and design plans. The roadway design is replacing the existing asphalt roadway with a two (2) lane, curb and gutter roadway section with an enclosed storm water system.



Arlington Street Improvements

City of Ada, Oklahoma

Date of Completion: 2013

The City of Ada partnered with the Chickasaw Nation for the street improvement along Arlington from the BNSF railroad spur to N. Mississippi Avenue (Crazy Corner). The scope included land survey, drainage, typical sections including 4-lane concrete curb & gutter with concrete pavement, plan and profile sheets, new center median lighting and decorative brick pavers, and traffic detours to be constructed under existing traffic. Survey, roadway and design of urban street. Four-lane divided, drainage, new pavement, ADA and utilities. Prepared specifications and contract documents.

Relevant Experience



US-62 over Cane Creek *Oklahoma Department of Transportation*

Expected Date of Completion: 2016

This project started as a replacement of a span bridge on US-62 west of Muskogee. At the project scoping, it was determined to rehabilitate the bridge by replacing the superstructure and deck, as the substructure and width were adequate. The existing bridge had full shoulders and was a continuous steel beam structure. The rehabilitated bridge will have the same shoulder width but will be a simple span bridge. The substructure needed some minor repairs. The piers were widened to accommodate the additional line of bearings which the continuous structure only had one. \$1.6 million project.

Iola and Cedar Street Improvements *City of Broken Arrow, Oklahoma*

Date of Completion: 2013

Survey and design of 5000 linear feet of urban street from S. Elm Place to Main Street and Kenosha Street to Broadway Avenue. Scope includes drainage area calculations, typical sections, ROW research, utility coordination, structure analysis, plan production for plan and profile sheets, summary sheets, erosion control, and contract documents.



Street Rehab Zone #1073 *City of Tulsa, Oklahoma*

Date of Completion: 2015

Project involves municipal residential street maintenance and repair. Some sections of the street require complete reconstruction; other areas require patching, then milling and overlaying with new asphalt. Segments of the existing curb and gutter will be replaced and curb inlets improved to current city criteria.

“I’ve...developed a trust for his responsiveness, professionalism, timely production of constructible plans, innovative design and his attention to detail.”

- Stephen E. Lawrence, Public Works Engineer, City of Edmond



**State of Oklahoma
Office of Management and Enterprise Services
Division of Capital Assets Management
Construction and Properties**

Instructions for Completing DCAM-CAP Form 255

DCAM-CAP Form 255 is the companion form to CAP Form 254 which permits Architects, Landscape Architects, Engineers and Land Surveyors to respond to invitations to be considered for design projects from the State of Oklahoma. It permits consultants to tailor their response to the specific project being considered by an agency.

This form is used in conjunction with DCAM-CAP Form 254 in the same manner as Federal Standard Forms 254 and 255 are used for Federal selections. DCAM-CAP Form 255 is to be used for a specific project and DCAM-CAP Form 254 is used to be registered for consideration. **These forms have been designed to be as similar as possible to the Federal forms but SF254 and SF255 MAY NOT be used for State registration and selection.**

This form is divided into (6) break sections. To easily view where these sections occur, use the "View/Normal" command.

The first section contains a table, is unprotected, and allows for the first sheet/instructions to be deleted. The table can be deleted by selecting the whole table and using the "Edit/Cut" command.

The second section (Items 1 thru 5a) are protected and contains fields that can be filled in with the appropriate information.

The third and fourth sections (Item 6.) are unprotected and don't contain any fields. This allows for the whole table to be copied and pasted so that additional "Brief resumes..." can be input. The table can be copied by selecting the whole table and using the "Edit/Copy" And "Edit/Paste" commands.

The fifth and sixth sections (Items 7, 8, 9, 10) are protected and contain fields that can be filled in.

To better assist you in inputting information, you can turn on "Form Field Shading" and "Show Gridlines" using the forms toolbar.

Item 1. Enter the description of the project, as it appears in the letter you received announcing the project. If the agency has used a number to identify the project, include that number.

Item 2a. Enter the date of the letter announcing the project. You must reply to the agency as specified, to be considered. This completed form must accompany your letter of interest.

Item 2b. Enter the name of the agency from which you received the announcement letter.

Item 3. List the legal name and address of the firm or joint-venture submitting this form.

Item 3a. All firms, other than individuals practicing under their own license, or joint ventures must be certified by the Oklahoma Board of Registration for Professional Engineers and Land Surveyors or the Oklahoma Board of Governors for Licensed Architects and Landscape Architects.

Item 3b. Enter the firm's Tax ID Number.

Item 3c. Enter the name, title, and telephone number of the principal representing the firm or joint-venture submitting this form.

Item 3d. Enter the address of the office that will perform the work on this project, if it is different from that shown in item 3.

Item 4. List the number of personnel, by discipline, to be used on THIS PROJECT. List them only once by primary function. If functions are not shown, add them in the blanks provided.

Item 5. If a joint-venture is planned for this project, list the member firms and their respective areas of expertise here. All members must be registered with Construction and Properties. Provide total number of employees permanently employed by the firm listed. Do not include employees of consultants or sub-consultants. A separate

DCAM-CAP Form 255 is required for additional consultants or sub-consultants.

Item 6. This page is for the resumes of the key personnel. It may be copied as necessary. It should be noted that Oklahoma law requires that design work for Oklahoma projects require the seals of architects and engineers licensed in the State of Oklahoma.

Item 7. This page is for the listing of projects accomplished by the (P)artnership, (C)orporation, (J)oint- (V)enture, or (I)ndividual, which best represents the qualifications of the firm for the type of project similar to the one announced. Do not include projects of consultants or sub-consultants.

Item 8. This area may be used to provide any other information not covered elsewhere on the form, which is pertinent to this project. List any special qualifications, which are applicable to this project.

Item 9. All prospective design consultants must be aware of the quoted section of law from Title 61 of the Oklahoma Statutes. The signature in Item 11 acknowledges that the excerpt has been read.

Item 10. A principal of the firm must sign and date the questionnaire for it to be accepted. Original signatures are required.

Return this completed form to the agency issuing the invitation with a letter requesting consideration for the proposed project.



STATE OF OKLAHOMA

Consultant Services
For A Specific Project

<p>1. Project Name/Location for which firm is filing: EC-1813 Preliminary Engineering, Preparation of Construction Plans (Pre-Qualification for County Engineering Services)</p>	<p>2a. Date of Announcement: July 15, 2016</p>	<p>2b. Agency originating announcement: Oklahoma Dept. of Transportation 200 N.E. 21st St. Oklahoma City, OK 73105</p>
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3. Firm (or Joint-Venture) Legal Name and Address:
Cowan Group Engineering, LLC
7100 N. Classen Boulevard, Suite 500
Oklahoma City, OK 73116

Tulsa Office:
5416 S. Yale, Suite 210
Tulsa, OK 74135

3a. Certificate of Authority Number: 6414

3c. Name, Title, & Telephone Number of Principal Contact:
Jeff Cowan, PE, Principal
405.463.3369 Phone
405.463.3381 Fax

3b. FEI/Tax ID Number: [REDACTED]

3d. Address of office to perform work if different from Item 3:

4. Personnel by Discipline: (List each person only once, by primary function.)

<u>5</u> Administrative	___ Economists	___ Mechanical Engineers	<u>4</u> <u>Engineering Technicians</u>
___ Architects	___ Electrical Engineers	___ Mining Engineers	<u>1</u> <u>Engineering Intern</u>
<u>2</u> CAD/CADD Technicians	___ Estimators	___ Planners: Urban/Regional	___ _____
___ Chemical Engineers	___ Geologists	___ Sanitary Engineers	___ _____
<u>11</u> Civil Engineers	___ Hydrologists	___ Soil Engineers	___ _____
___ Construction Inspectors	___ Interior Designers	___ Specification Writers	___ _____
___ Draftsmen	___ Landscape Architects	<u>1</u> Structural Engineers	___ _____
___ Ecologists	<u>3</u> Land Surveyors	___ Surveyors	<u>27</u> Total Personnel

5. If submittal is by a JOINT-VENTURE, list participating firms and outline specific areas of responsibility (including administrative, technical and financial) for each firm: All firms and the joint venture MUST be registered with Construction and Properties, Division of Capital Assets Management, 2401 N. Lincoln Blvd., Suite 212, P. O. Box 53448, Oklahoma City, OK 73152-3448.

5a. Has this Joint-Venture previously worked together? Yes No If YES, how many times? _____

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Jeff Cowan, PE / Principal & CEO	a. Name and Title: Bill Cyganovich, PE / Senior Project Manager
b. Project Assignment: Principal-In-Charge	b. Project Assignment: Project Manager
c. Name of firm with which associated: Cowan Group Engineering, LLC	c. Name of firm with which associated: Cowan Group Engineering, LLC
d. Years' experience: With this firm 4 With other firms 22	d. Years' experience: With this firm 10 months With other firms 40
e. Education: Degree(s)/Year/Specialization B.S. / Civil Engineering / Oklahoma State University	e. Education: Degree(s)/Year/Specialization B.S. / Civil and Environmental Engineering / Clarkson University, NY A.S. / Engineering Science / Alfred State College, NY
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma / Professional Engineer / 18102 Oklahoma Certificate of Authority (if any): 6414	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Oklahoma / Professional Engineer / 16099 Oklahoma Certificate of Authority (if any): 6414
g. Other experience and qualifications relevant to the proposed project: Mr. Cowan has over 26 years of experience involving the project management of major design projects. He has managed federal, state, and local government projects throughout Oklahoma. His primary technical experience is transportation design and construction. He has led project teams and performed design for numerous municipal roadway improvements. <ul style="list-style-type: none"> Oklahoma Turnpike Authority, Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43): Interchange for the Muskogee Turnpike and SH-51 reconstruction including new Cash Toll Plazas, PikePass lanes and minor reconfiguration of the ramp egress and ingress. Work included pavement rehabilitation/reconstruction, drainage, traffic changes, changing location of the Cash Toll Booths and PikePass lanes, and construction traffic control. Oklahoma Turnpike Authority, Eufaula Toll Plaza: Project Manager responsible for the design of roadway, ramps, bridge, and toll Plaza. Project included coordination of many sub-contractors, survey, preparation of contract documents and specifications. City of Tuttle, S.W. 3rd Street Widening: Project Manager responsible for the final plans and specifications for SW 3rd Street. Project included seven blocks of roadway widening, drainage improvements, utility relocation, off-site drainage, survey and geotechnical. City of Tuttle, South Cimarron Road: City Engineer responsible for the final plans and specifications for Cimarron and SH 37 improvement project. Project included road widening, traffic signal improvements, survey, right of way documents and acquisition, and survey. City of Broken Arrow, 9th Street Widening: Project Manager responsible for the final plans and specifications for 9th Street widening. Project included one mile of roadway widening, bridge box, drainage improvements, traffic signal improvements, survey, and geotechnical. City of Oklahoma City, Eastern Avenue at Grand Boulevard: Project Engineer responsible for the final plans and specifications of Eastern Ave. Project included roadway widening, drainage improvements, and signal improvements at Grand Blvd. Estimated construction cost: \$3.1 million. Oklahoma Department of Transportation, SH-51 Roadway and Bridge: Design coordination of SH 51 Bridge and roadway over Harrington Creek near the City of Stillwater, OK. Project entailed preparation of final construction plans for the bridge replacement, RCB bridge extension and special provisions for roadway rehabilitation, shoo-fly alignment, drainage structures, grading, channel improvements, and traffic improvements. Oklahoma Department of Transportation, US 77 Roadway and Bridge: Design coordination of US 77 bridge and roadway over Black Bear Creek near Perry, OK. Project entailed preparation of final construction plans and special provisions for roadway rehabilitation, new alignment, new bridge, drainage structures, grading, channel improvements, and traffic improvements. 	g. Other experience and qualifications relevant to the proposed project: Mr. Cyganovich has over 40 years of experience in both the public and private sectors. His extensive knowledge of roadway and bridge design has provided innovative design plans to local, county and state governments for decades. <ul style="list-style-type: none"> Oklahoma Turnpike Authority, Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43): Interchange for the Muskogee Turnpike and SH-51 reconstruction including new Cash Toll Plazas, PikePass lanes and minor reconfiguration of the ramp egress and ingress. Work included pavement rehabilitation/reconstruction, drainage, traffic changes, changing location of the Cash Toll Booths and PikePass lanes, and construction traffic control. Oklahoma Department of Transportation, US-62 over Cane Creek: This project started as a replacement of a span bridge on US-62 west of Muskogee. At the project scoping, it was determined to rehabilitate the bridge by replacing the superstructure and deck, as the substructure and width were adequate. The existing bridge had full shoulders and was a continuous steel beam structure. The rehabilitated bridge will have the same shoulder width but will be a simple span bridge. The substructure needed some minor repairs. The piers were widened to accommodate the additional line of bearings which the continuous structure only had one. \$1.6 million project. Oklahoma Department of Transportation, SH-10 over Little Green Leaf Creek: Replace span bridge with new span bridge on new alignment to the west of the existing bridge. Raised bridge about 5 feet to allow for small boats to travel beneath the bridge. Built a new approach causeway into a lake which is part of the navigational system from Tulsa to the Mississippi River. Use the existing bridge and approaches as a detour. Roadway width is 2 lanes with full shoulders, even across the bridge. Had a State Park entrance at the south end of the bridge. Provided fish habitat items and wetland expansion as part of the project. \$6 million project. Oklahoma Department of Transportation, SH-16 over Chicken Creek: Replace span bridge with multi-cell box bridge over Chicken Creek near Slick, OK. Bridge on new alignment east of existing bridge. Approach roadway was about 1 mile in length total and included a second box bridge that was replaced at a lower flow line elevation. Added shoulders and designed the road for 65 mph. Responsible for all roadway and bridge design. \$6 million project. City of Tulsa, Peoria Avenue & US-75 Interchange: The interchange is a half interchange with northbound off and south bound on ramps. It needed a traffic signal for the northbound off ramp and a left turn lane for the southbound on ramp. The traffic signal was designed with minimal street work; the on ramp was moved to the north to allow for a small left turn lane on Peoria by widening to the east. The west curb line was moved to the west north of the on ramp to serve as a right turn lane. A large part of the project was coordination between the City and ODOT. \$1.2 million project.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .			
a. Name and Title: Barrick Rosenbaum, PE / Operations Manager, Tulsa Office		a. Name and Title: Sean Fairbairn, CFM / Project Engineer	
b. Project Assignment: Quality Assurance / Quality Control Manager		b. Project Assignment: Transportation Designer	
c. Name of firm with which associated: Cowan Group Engineering, LLC		c. Name of firm with which associated: Cowan Group Engineering, LLC	
d. Years' experience:	With this firm	5 months	With other firms
			26
d. Years' experience:	With this firm	4	With other firms
			5
e. Education: Degree(s)/Year/Specialization B.S. / Civil Engineering / Texas A&M University		e. Education: Degree(s)/Year/Specialization B.S. / Civil Engineering / Oklahoma State University	
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma / Professional Engineer / 17230		f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Oklahoma / Professional Engineer / 26091	
Oklahoma Certificate of Authority (if any): 6414		Oklahoma Certificate of Authority (if any): 6414	
g. Other experience and qualifications relevant to the proposed project: Mr. Rosenbaum has over 26 years of experience ranging from site development to traffic and transportation engineering to storm water design. He has specifically been involved with private firm ownership and management, project and construction management, planning, and roadway design. He is experienced with ODOT, ODEQ and other local city standards and construction specifications.		g. Other experience and qualifications relevant to the proposed project:	
<ul style="list-style-type: none"> • City of Broken Arrow, Bass Pro Drive / Albany Street: 5-lane arterial street to accommodate Bass Pro Shop site and adjacent developments (includes 12" arterial street waterline design for Albany Street.) Engineering design and construction plans for a project which included multiple redesigns due to project constraints for grades, gas lines, storm water. Estimated cost: \$2.5 million. • City of Broken Arrow, Arterial Street Widening for 3-lane Elm Street from Tucson to Jasper: Engineering design, construction plans and traffic control for widening Elm Street to 3 lanes. This project includes all facets of arterial street widening including overlays, pavement widening, storm sewer design, striping, traffic control and utility relocations. Estimated cost: \$1.2 million. • City of Tulsa, Apache Street Rehabilitation: Engineering and design for construction plans for a street rehabilitation project along Apache Street in Tulsa. Included street rehabilitation and pedestrian access improvements. • City of Tulsa, Non-Arterial Street Rehabilitation Maintenance Zone 4067: Engineering and design for construction plans for a non-arterial street rehab project in Tulsa. Included street rehabilitation, water lines, storm sewers and pedestrian access improvements including sidewalks and accessible ramps. • City of Tulsa, Citywide Bridge Rehabilitation. Principal-in-charge of engineering and design for construction plans for numerous City of Tulsa bridge and box culvert rehabilitations. Includes field inspections, alternative repairs, construction plans and bidding packages. • City of Tulsa, Citywide Street Rehabilitation: Principal-in-charge of engineering and design for construction plans for numerous City of Tulsa street rehabilitations. Includes alternative repairs, construction plans and bidding packages for multiple City streets. • City of Tulsa, 81st Street Rehabilitation: Principal-in-charge of engineering and design for construction plans for a street rehabilitation project along 81st Street in Tulsa. Included street rehabilitation, storm sewer, box culvert improvements and pedestrian access improvements. • City of Tulsa, Non-Arterial Street Rehabilitation Maintenance Zone 2056: Engineering and design for construction plans for a non-arterial street rehab project in Tulsa. Included street rehabilitation, water lines, storm sewers and pedestrian access improvements including sidewalks and accessible ramps. • City of Broken Arrow, Arterial Street Design of Albany Street from N. Elm Place to N. 9th Street: Principal-in-charge of engineering design, construction plans, and traffic control for the construction of a new three-lane arterial street. This project also included the relocation of sanitary sewer lines and coordination with high-pressure gas line companies. Estimated cost of project: \$1,000,000. 		<ul style="list-style-type: none"> • Oklahoma Turnpike Authority, Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43): Interchange for the Muskogee Turnpike and SH-51 reconstruction including new Cash Toll Plazas, PikePass lanes and minor reconfiguration of the ramp egress and ingress. Work included pavement rehabilitation/reconstruction, drainage, traffic changes, changing location of the Cash Toll Booths and PikePass lanes, and construction traffic control. • City of Tuttle, South Cimarron Road: Planning and design of ½ mile of urban street from Southpointe Drive to SH 37. Typical section includes two-lane curb and gutter, underground storm drainage (ADS pipe specification), RCB, right-of-way coordination, utility coordination, traffic and sequencing. Project included water and sanitary sewer relocation within the bid package to minimize the street construction time. • City of Broken Arrow, Dallas Street: Engineer responsible for the planning and design of six urban blocks of roadway widening, sidewalks, closed storm sewer system, signing, striping and waterline relocation for 1600 LF. • Oklahoma Department of Transportation. Design coordination of US 64 bridge replacement over Cow Creek in the City of Perry, Oklahoma. Project entails preparation of final construction plans and special provisions for bridge design, roadway rehabilitation, drainage structures, grading, channel improvements, and traffic improvements. • Oklahoma Department of Transportation. Design coordination of US 77 bridge and roadway over Black Bear Creek near Perry, OK. Project entailed preparation of final construction plans and special provisions for roadway rehabilitation, new alignment, new bridge, drainage structures, grading, channel improvements, and traffic improvement. • City of Broken Arrow, Iola and Cedar Street: Engineer responsible for the planning of urban roadway, drainage improvements and 5,000 LF of waterline relocation. • Oklahoma Turnpike Authority, Eufaula Toll Plaza: Engineer responsible for the planning and design of the Indian Nation Turnpike and State Highway 9 Interchange, which included drainage, horizontal alignments and toll plaza development. • City of Broken Arrow, Downtown Main Street Streetscape: Engineer responsible for the design and preparation of hydrologic and hydraulic analysis and plans for a 2,700 LF closed storm sewer system. Completed quality control review of sidewalk and street improvements. • Citizen Potawatomi Nation, Heritage-Woodman Road: Engineer responsible for the planning and design of roadway and drainage for a 50-acre industrial development. • City of Poteau, Poteau Industrial Park: Engineer responsible for the planning and design of roadway and drainage plans for a 34-acre industrial park. • City of Tuttle, SH 37 Sidewalks: Planning and design of new sidewalk along Main Street / SH 37 in coordination with ODOT Local Government. The project included sidewalk and driveway replacement and ADA ramps. 	

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Lynelle Nichols, PE / Project Engineer	a. Name and Title: Gordon Johnson, PE, PLS / Survey Manager
b. Project Assignment: Transportation Designer	b. Project Assignment: Survey Manager
c. Name of firm with which associated: Cowan Group Engineering, LLC	c. Name of firm with which associated: Cowan Group Engineering, LLC
d. Years' experience: With this firm 3 With other firms 6	d. Years' experience: With this firm 4 With other firms 40
e. Education: Degree(s)/Year/Specialization B.S. / Civil Engineering / University of Colorado	e. Education: Degree(s)/Year/Specialization
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma / Professional Engineer / 25502 Oklahoma Certificate of Authority (if any): 6414	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Oklahoma / Professional Engineer / 16956 Oklahoma / Professional Land Surveyor / 1291 Oklahoma Certificate of Authority (if any): 6414
g. Other experience and qualifications relevant to the proposed project: <ul style="list-style-type: none"> • Oklahoma Turnpike Authority, Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43): Interchange for the Muskogee Turnpike and SH-51 reconstruction including new Cash Toll Plazas, PikePass lanes and minor reconfiguration of the ramp egress and ingress. Work included pavement rehabilitation/reconstruction, drainage, traffic changes, changing location of the Cash Toll Booths and PikePass lanes, and construction traffic control. • Oklahoma Turnpike Authority Eufaula Toll Plaza along with Indian Nation Turnpike and SH-9 (IN-MC-54): Interchange for the Indian Nation Turnpike and SH-9, new roadway alignments, ramps, bridge, toll plaza development, drainage, traffic and construction traffic. • City of Ada, Arlington Street: As Project Engineer, responsible for planning and design for 4-lane divided alignment street widening, drainage, decorative paving, retaining walls, ADA sidewalks and lighting. Prepared construction plans and specs. . • City of Shawnee, Waldon Road at the CPN Campus: Developed typical sections and planning documents for 2,000 linear feet of street improvements. • Oklahoma Department of Transportation, US-70 Bridge and Roadway. Provided engineering support including the creation of pavement and structure removal plans, design of traffic signing and striping plans, construction traffic control plans, and composing quantity and cost estimate spreadsheets for the project that provided bridge reconstruction over the Union Pacific Railroad along with signal and roadway improvements at the intersection of NW 1st and Mulberry in Durant, Oklahoma. . • Oklahoma Department of Transportation, I-240/I-40 to Choctaw Road: Provided engineering support in the conceptual design phase of the project including interchange layout analysis and development of preliminary alignments and profiles to assess the constructability of three different conceptual designs. • Oklahoma Department of Transportation, I-40 and US-64: Responsibilities included geometric design and roadway modeling of the interchange ramps and interstate mainline. • City of Tulsa, Gilcrease Northwest Expressway: Responsibilities included ramp alignment and profile design, responding to owner's comments and critiques, design documentation and calculation verification, preliminary right-of-way plans, designing a conceptual interim roadway, and creating the engineering design report for the functional design and right-of-way plans for over 5 miles of freeway on new alignment. The project design needed to comply with City of Tulsa, Oklahoma Department of Transportation and AASHTO standards, and includes four freeway to arterial interchanges, one freeway-to-freeway interchange, frontage roads, a bicycle/pedestrian trail, corridor modeling, super-elevation calculations and signing and striping plans. • City of Ada, E. 18th Street: Engineer responsible for the planning, design of roadway, drainage calculations, retaining walls, traffic and utility coordination. 	g. Other experience and qualifications relevant to the proposed project: Mr. Johnson is the Lead Survey Manager for Cowan Group Engineering and responsibilities includes managing a broad range of survey projects including water resources, transportation, bridges, civil/site, as-built surveys, legal research and boundary control. Directs field crews and manages CAD / drafting personnel in connection with field boundary surveys and topographical surveys, infrastructure design surveys, control networks, utility rehabilitation, FEMA flood elevation and control. His previous experience is as follows: Oklahoma Turnpike Authority, Director of Engineering and Construction - Managed the Turnpike program in securing design engineers, managed OTA staff, prepared annual budgets and project programming. Worked closely with the Secretary of Transportation and Turnpike Members for OTA direction, budgets and management of the State of Oklahoma's Turnpike system. Oklahoma Department of Transportation, Division Chief Surveyor - Managed eight (8) survey divisions in the State of Oklahoma. Responsible for budgeting, policy development, equipment and software, and overall direction for all surveys in the State of Oklahoma. Oklahoma Department of Transportation, Division Engineer Local Government - Coordinated and managed the local government staff members as well as the state-wide local government program with County and City governments. Oklahoma Department of Transportation, Division Six Engineer - Responsible for the operation of all construction and maintenance activities within the division and provided engineering supervision for those activities, preparing and or assisting in the preparation of the division construction work program and the division preventive maintenance program for both bridges and roadways, selected consultants and administered the contracts management and design projects, conducted scoping, plan-in-hand, pre-work, and final inspections of all projects in the division, prepared and managed an annual budget, developed and implemented division policies, corresponded with the public, media, contractors, consultants, state and local agencies, and other ODOT personnel to insure that projects and programs were completed in the best interest of the taxpayers.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Russ Fischer, PE, CFM / Senior Project Engineer	a. Name and Title: Pei-Yin (Michelle) January, PE, CFM / Project Engineer
b. Project Assignment: Lead Designer	b. Project Assignment: Transportation Design
c. Name of firm with which associated: Cowan Group Engineering, LLC	c. Name of firm with which associated: Cowan Group Engineering, LLC
d. Years' experience: With this firm 2 With other firms 27	d. Years' experience: With this firm 8 months With other firms 14
e. Education: Degree(s)/Year/Specialization B.S. / Construction Administration / University of Wisconsin M.S. / Civil Engineering / Oklahoma State University	e. Education: Degree(s)/Year/Specialization B.S. / Civil Engineering / 1998 / The Queen's University of Belfast, Northern Ireland M.S. / Civil Engineering in Structures / 2001 / University of Oklahoma
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma / Professional Engineer / 21917 Oklahoma Certificate of Authority (if any): 6414	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Oklahoma / 2006 / Professional Engineer / 22153 Oklahoma Certificate of Authority (if any): 6414
g. Other experience and qualifications relevant to the proposed project: <ul style="list-style-type: none"> • ODOT Local Government; City of Broken Arrow, 23rd Street Improvements, New Orleans Street to Houston Street: The project involves 2 miles of arterial street widening from the current 2 lanes to 4 lanes with a center turn lane. Intersection improvements will include considerations of a traffic circle or signalization of the Washington Street intersection at the mid-point of the project. A significant floodplain from Broken Arrow creek will impact design elevations and bridge and culvert drainage design considerations for an elevated bridge crossing. • City of Tulsa, Maintenance Zone #1073: Project involves municipal residential street maintenance and repair. Some sections of the street require complete reconstruction; other areas require patching, then milling and overlaying with new asphalt. Segments of the existing curb and gutter will be replaced and curb inlets improved to current city criteria. • City of Tulsa, Maintenance Zone #1006: Project involved repairs and reconstruction of asphalt and concrete residential and collector streets. Storm sewer work involved curb inlet improvements and pipe capacity. Scope of services also included \$1 million of water main replacement. • City of Tulsa, Maintenance Zone #3009: Residential street reconstruction of existing asphalt and concrete neighborhood streets. Storm sewer improvements and curb inlets provided per current city criteria. Also provided was the replacement of several existing sanitary sewer lines and a number of water mains in the neighborhood. • City of Tulsa, 36th and Lewis Intersection Improvements: Arterial street intersection improvements that included intersection expansion to provide for additional through lanes and turning lanes, enhanced signalization providing pedestrian safety elements and storm sewer improvements. • Oklahoma Department of Transportation Local Government, City of Norman, 12th Avenue S.E. Improvements: Arterial street expansion from 2 lanes to 5 lanes, including improvements to the intersection with SH-9. The project included traffic study, signalization, utility relocations, bicycle lanes, and coordination with adjacent private development. • Oklahoma Department of Transportation Local Government, City of Enid, Cleveland Boulevard Improvements: Arterial street improvements to a one-mile segment of municipal streets, including storm sewer and water main installations. The project included elements for future commercial and multi-family large scale developments. • City of Tulsa, Maintenance Zone #1006: Residential street improvements, maintenance and reconstruction of concrete streets. The scope included storm sewer inlet and drainage improvements, several segments of water main replacement and sanitary sewer replacements within the street right-of-way. The project design was coordinated with the neighborhood residents with improvements in sidewalks and accessibility for pedestrians and children. • City of Tulsa, Maintenance Zone #8107: Residential street improvements, maintenance and reconstruction of asphalt streets. The scope included storm sewer inlet and drainage improvements and sanitary sewer improvements to eliminate segments of VCT pipe. The project design required consideration of sight lines due to topography and street curves to improve safety. 	g. Other experience and qualifications relevant to the proposed project: <ul style="list-style-type: none"> • Oklahoma Turnpike Authority, Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43): Interchange for the Muskogee Turnpike and SH-51 reconstruction including new Cash Toll Plazas, PikePass lanes and minor reconfiguration of the ramp egress and ingress. Work included pavement rehabilitation/reconstruction, drainage, traffic changes, changing location of the Cash Toll Booths and PikePass lanes, and construction traffic control. • ODOT, US-59 over Little Sallisaw Creek, Sequoyah County: Project included design and preparation of construction plans for 0.9 miles of roadway and four bridges totaling 980' long. Highway was upgraded to a 4-lane divided highway using PCCP. • McCurain County, U.S. 98 over Little River, 0.7 miles north and 2.5 miles west of Wright City: Project included design and preparation of construction plans for bridges and approach roadway (U.S. 98). • Bryan County, OK, NS-366 south of US-70, extend 3.0 miles: Project included design and preparation of construction plans for 3.0 miles of roadway reconstruction. • LeFlore County, OK, Bridge and Approaches US-83 over Sugarloaf Creek: Project entailed design and preparation of construction plans for approach roadway (U.S. 83) and 165-foot long bridge. Bridge was designed on horizontal curve. • Pushmataha County, Bridge and Approaches over Buzzard Creek approximately 0.7 miles south and 4.0 miles west of Nashoba: Project included design and construction plans for bridges and approach roadway. Bridge was designed on a horizontal curve. • EW-211 County Road over Horse Creek, 1.0 mile north and 1.8 miles east of Grant, Choctaw County: Project entailed design and preparation of construction plans for bridge and approaches. • South Portland Avenue Relocation from 1900 feet south of the Intersection of S.W. 74th St. to S.W. 54th Street: Project included intersection improvements to S.W. 74th Street and provisions for the widening and improvement of the roadway, drainage and utility relocation. • ODOT, Reconstruction of SH 6, Kiowa and Beckham Counties, OK: This project was a reconstruction of SH 6 to provide a 4-lane divided highway, beginning 5.7 miles south of the SH 55 East junction and extend north 5.5 miles. Responsible for drainage analysis for all 10 existing RCBs crossing SH 6, included the four 10.25' x 12.5' x 10.25' x 6' RCB that is classified as a bridge. • Chesapeake Energy Shartel Avenue Improvement, Oklahoma City, OK: This project involved the improvement of Shartel Avenue from south of NW 63rd Street to NW 57th Street with two 12-foot lanes on each side and a 12-foot-wide median. Responsible for the drainage analysis and storm sewer system for the street widening and proposed median. • Broadway Avenue from NW 5th Street to NW 19th Street, Moore, OK: Reconstruction of Broadway Avenue. Responsible for analyzing the existing two 12' x 8' RCBs crossing the Little River, south of NW 12th Street for adequacy and roadway overtopping.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .			
a. Name and Title: Shane King, PE, SE		a. Name and Title: Justin Smith, PLS / Survey Crew Chief	
b. Project Assignment: Structural Design Engineer		b. Project Assignment: Land Survey and GIS	
c. Name of firm with which associated: Cowan Group Engineering, LLC		c. Name of firm with which associated: Cowan Group Engineering, LLC	
d. Years experience:	With this firm	3 months	With other firms
			6
e. Education: Degree(s)/Year/Specialization B.S. / Civil Engineering / University of Oklahoma M.S. / Civil Engineering / University of Oklahoma		e. Education: Degree(s)/Year/Specialization Gordon Cooper Technology Center / Shawnee, OK Degree in Applied Science of Surveying Technology / Oklahoma State University (OKC)	
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma / Professional Engineer / 21311 Kentucky / Professional Engineer / 25201 Oklahoma Certificate of Authority (if any): 6414		f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Oklahoma / Professional Engineer / 1868 Oklahoma Certificate of Authority (if any): 6414	
g. Other experience and qualifications relevant to the proposed project:		g. Other experience and qualifications relevant to the proposed project:	
<ul style="list-style-type: none"> • US Army Corp of Engineers, Afghanistan Truss: Engineered custom trusses for USAF Building in Kandahar, Afghanistan. Original plans called for bar joist roof, which were too costly to ship to Afghanistan. Engineered roof structure including joists, girders, etc. with indigenous materials. • Bell Aire Motel, Okmulgee, OK: Design and engineering of 1 ½ story, 2,400 square foot motel in Okmulgee, Oklahoma. Engineered foundation, slab, beams, shear walls, roof structure, etc., for wood-framed construction. • Charlie's Chicken Restaurant, Tahlequah, OK: Design and engineering for foundation, shear walls, framing and roof structure of 4,000 square feet Charlie's Chicken restaurant in Tahlequah, Oklahoma. • Farm Bureau Building, Okmulgee County: Design and engineering for 6,800 square foot strip office building in Okmulgee, OK. Engineer of record for foundation, slab, etc. for pre-engineered metal building. • Nursing Home, Owasso, OK: Design and engineering of 50,000 square ft. retirement home in Owasso, OK. Engineered foundation, slab, beams, shear walls, roof structure, etc., for wood-framed structure. • Wilkins Nursing Home Expansion, Duncan, OK: Design and engineering of 3,500 square ft. expansion for nursing center in Duncan, OK. Engineered foundation, slab, shear walls, roof framing, etc., for wood-framed building. • Sooner Suds Car Wash, Moore, OK: Design and engineering of 6,400 square ft. car wash facility in Moore, OK. Engineered stem walls, trench drains, foundation, slab, columns and beams for steel structure. • Reeds Woods Office Building, Tulsa, OK: Design and engineering of 5,000 square feet office building in Aspen Creek, Tulsa, OK. Engineered foundation, slab, shear walls, roof framing, etc. for wood-framed building. <p>Additional Projects – Served as Engineer of Record:</p> <ul style="list-style-type: none"> • 110 foot bridge, Victory Christian Church, Tulsa, Oklahoma • John Deere Expansion, Sand Springs, Oklahoma • Shawnee Community Center, Miami, Oklahoma • Keetowah Elder Center, Tahlequah, Oklahoma • Okmulgee County Bridge, Okmulgee, Oklahoma • PSO Trail, Tulsa, Oklahoma • Marshall County Bridge, Marshall, OK 		<ul style="list-style-type: none"> • Mr. Smith has extensive experience in land survey and manages the specific project research for transportation, streets, highways, bridges, and general civil projects. His expertise and background is field and office survey, platting, and very proficient at ESRI ArcGIS. • Boundary, property and ALTA surveys • Road and bridge surveys • Proficient at AutoDesk Civil 3D and Micro Station V8i. • Layout and design for road alignments and vertical profiles • Design of complex drainage structures and closed pipe systems • Layout and CADD for span bridges • Detail and draw water lines, sanitary sewer alignments and profiles • ESRI ArcGIS company and files and drawings • Topographic land surveying <p>Mr. Smith is the survey crew chief and his role is crew coordination. He has experience with the following:</p> <ul style="list-style-type: none"> • Oklahoma Department of Transportation • Oklahoma Turnpike Authority • Municipal governments statewide • Private developments <p>Representative Projects:</p> <ul style="list-style-type: none"> • Oklahoma Turnpike Authority, Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43): Full topographic survey of approximately 100 acres, setting of 3 control points and performed Static GPS sessions to obtain State Plane coordinates and elevations. Additionally, recreated CRL and existing R/W using deeds, plans and drawings. • City of Broken Arrow, Dallas Street: Approximately 1,600 feet of full topographic survey and right-of-way establishment. • Oklahoma Turnpike Authority, Eufaula Toll Plaza: Coordination of aerial survey along with specific topographic survey, right-of-way, centerline and section establishment. • City of Broken Arrow, Iola and Cedar Street: Approximately 1 mile of full topographic survey right-of-way to right-of-way. • City of Ada, Arlington Street: Over 1,000 linear feet of full topographic survey from right-of-way to right-of-way and right-of-way establishment. 	

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Richard Iman, PLS / Surveyor	a. Name and Title:
b. Project Assignment: Land Survey and GIS	b. Project Assignment:
c. Name of firm with which associated: Cowan Group Engineering, LLC	c. Name of firm with which associated:
d. Years experience: With this firm 1 month With other firms 20	d. Years experience: With this firm With other firms
e. Education: Degree(s)/Year/Specialization A.S. / Surveying Technology / Kansas State University A.S. / Civil Engineering Technology / Kansas State University	e. Education: Degree(s)/Year/Specialization
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma / Professional Land Surveyor / 1939 Missouri / Professional Land Surveyor / PLS-20090166946 Kansas / Professional Land Surveyor / PS-1450 Oklahoma Certificate of Authority (if any): 6414	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Oklahoma Certificate of Authority (if any):
g. Other experience and qualifications relevant to the proposed project: Mr. Iman has over 20 years in the surveying industry including both the public and private sectors. He has managed and supervised a team of up 6 field crews, completing over 800 projects. <ul style="list-style-type: none"> • Boundary analysis and determination including boundary surveys, rights-of-way, easements, and reversionary interests in vacated streets, roads and abandoned railroads. • Project management included project estimating, bidding, scope and fee negotiating, client consultation, project representation, consultation with adjacent landowners, city staff, county staff, KDOT staff, and FEMA staff members. • Road, street, highway and bridge transportation engineering design surveys • Potable water, sanitary sewer, storm drainage, electrical, natural gas and telecommunication utility engineering surveys • Elevation certificates • LOMA and LOMR-F FEMA-related surveys • Staking, as-built and verification construction-related surveys • Environmental site surveys • Subsidence and deformation monitoring surveys Representative Projects: <ul style="list-style-type: none"> • City of Manhattan; Kansas, West Anderson Ave. (Old Highway 24) and Kimball Ave: Full topographic survey of 5000 linear feet of West Anderson Ave. and 3000 linear feet of Kimball Ave./Scenic Drive; located visible and sub-surface utilities via Kansas One-Call; recreated existing West Anderson Ave. centerline and ROW using old highway 24 plans, deeds, subdivision plats, district court documents; utilized GPS, Total Station Traverse, and conventional auto-level loops to establish project control and tie it to City of Manhattan Control Network. • City of Manhattan, Kansas, Denison Ave. and Kimball Ave. Intersection: Full topographic survey of 7500 linear feet of Kimball Ave., 3000 linear feet of Denison Ave., and 2000 linear feet of College Ave.; located visible and sub-surface utilities; due to the high peak traffic flow at this location, all topographic/cartographic features and utilities from curb to curb were surveyed at night; recreated existing Kimball Ave. centerline and ROW using old plans, deeds, subdivision plats; utilized GPS, Total Station Traverse, and conventional auto-level loops to establish project control and tie it to City of Manhattan Control Network; performed section break-downs in four sections. • Ellis County, Kansas; Old Highway 40 from Ellis to Yocemento: Full topographic survey of 7 linear miles of rural highway between Ellis and Yocemento; located visible and subsurface utilities; recreated existing Highway 40 Centerline and ROW using several generations of highway plans, performed section break-downs. 	g. Other experience and qualifications relevant to the proposed project:

7. Work by firm or members which best illustrates current qualifications relevant to THIS PROJECT (list not more than 10 projects).

a. Project Name and Location	"P", "C", "JV" or "I"	b. Nature Of Firms Responsibility	c. Project Owner's Name and Address	d. Completion Date	e. Est. Cost (000's)	
					Entire Project	Firm's Portion
1. Coweta Toll Plaza, Muskogee Turnpike & SH-51 Interchange (MU-MC-43)	C	Pavement rehab & reconstruction including new cash toll plazas, PikePass lanes and minor reconfiguration of ramp egress & ingress, drainage, traffic change.	Oklahoma Turnpike Authority 2401 N.W. 23 rd St., Ste. 2B-1 Oklahoma City, OK 73107	In Construction	13,000	508
2. Cimarron Roadway – Urban City of Tuttle, OK	C	ODOT STP project. ½ mile of urban street improvement, curb & gutter, traffic control, closed storm (ADS pipe), drainage, traffic, water & sewer.	City of Tuttle 221 W. Main St. Tuttle, OK 73089	2013	1,940	68
3. Arlington Street City of Ada, OK	C	Survey, roadway and design of urban street. Four-lane divided, drainage, new pavement, ADA, and utility. Prepared specs and contract documents	City of Ada 231 S. Townsend St. Ada, OK 74820	2013	675	53
4. SH-10 over Little Green Leaf Creek, north of Muskogee Co. line	I	Replace span bridge with new span bridge on new alignment to the west of existing. Raised bridge ~5 feet. Built a new approach causeway. (Previous firm)	Oklahoma Department of Transportation 200 N.E. 21 st Street Oklahoma City, OK 73105	Construction 2017	6,000	N/A
5. US-62 over Cane Creek, west of Muskogee	I	Rehab of bridge by replacing super-structure & deck. Substructure needed minor repairs. Piers widened & add'l line of bearings added. (Previous firm)	Oklahoma Department of Transportation 200 N.E. 21 st Street Oklahoma City, OK 73105	Construction 2016	1,600	N/A
6. Iola and Cedar, Downtown City Streets, Broken Arrow, OK	C	Land survey, roadway, drainage, design of 12 blocks of two-lane urban street. Included drainage, new pavement, ADA.	City of Broken Arrow 485 N. Poplar Street Broken Arrow, OK 74012	2014	1,700	136
7. Indian Nation Turnpike Eufaula Toll Plaza – MP 92.5 McIntosh County	C	Survey, bridge, roadway, SH-9 interchange, traffic, signs, and construction. Report, planning and concept development.	Oklahoma Turnpike Authority 2401 N.W. 23 rd St., Ste. 2B-1 Oklahoma City, OK 73107	2014	9,800	375
8. Street Rehabilitation Zone 1073 Tulsa, OK	C	Planning, land survey, research, street design, and drainage calculations. Preparing final construction drawings and bid documents.	City of Tulsa 2317 S. Jackson Ave. Tulsa, OK 74107	2015	642	55
9. SH-16 over Chicken Creek, Slick, OK	I	Replace span bridge with multi-cell box bridge. Bridge on new alignment east of existing bridge. Approach road 1 mi. in length w/ 2 nd box bridge. (Previous firm)	Oklahoma Department of Transportation 200 N.E. 21 st Street Oklahoma City, OK 73105	Construction 2018	6,000	N/A
10. US-64 over Cow Creek N. 2 nd St. to E. Boundary St. City of Perry, Noble County	I	Urban street and bridge replacement over Cow Creek. Included drainage structures, channel and traffic improvements. Prepared PS&E. (Previous firm)	Oklahoma Department of Transportation 200 N.E. 21 st Street Oklahoma City, OK 73105	2010	1,750	N/A

8. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project.

Cowan Group Engineering, LLC (CGE) staff have over 150 combined years of civil engineering design, transportation planning and design, structural engineering and design, water resources, land survey, land planning, and construction management skills. CGE offers a full range of civil engineering services from project planning to final record drawings. Our clientele includes city, county, and state governments, developers, architects, and other engineering firms. Combined, we have managed federal, state, county, and local government projects throughout Oklahoma. CGE's primary technical experience is transportation design and construction.

The CGE Team has excellent communication and highly developed management skills with strong organizational abilities. The team has a strong sense of resolve, but understands the advantages of delegating to competent staff. The CGE team pledges to communicate well with ODOT's staff; as well as the communities affected by the projects, boards, and citizens in a way that will balance technical issues and good common sense.

Together, the CGE team brings a positive "can-do" attitude and spirit to save ODOT on engineering fees as well as the actual construction projects. The key for this savings is our availability, diverse local experience, candid listening, expert knowledge, and key relationships within the industry.

9. 61 O.S., § 64. Offenses

Any consultant or person doing architectural, surveying or engineering work for the State of Oklahoma, their agents, servants or employees, who shall receive gratuity from any contractor or builder of any public building or works, or solicit, receive or make any political contribution from or to a contractor or a builder of any public building or works, or who attempts to interfere with the competitive bidding process of the State of Oklahoma in any manner, is guilty of a misdemeanor, and upon conviction thereof shall be fined not less than One Hundred Dollars (\$100.00) nor more than Five Hundred Dollars (\$500.00), and by imprisonment in the county jail for not less than six (6) months nor more than one (1) year. Any contractor or builder of any public building or works, their agents, servants or employees, who shall offer any gratuity or political contribution to any consultant doing architectural, surveying or engineering work for the State of Oklahoma, or who attempts to interfere with the competitive bidding process of the State of Oklahoma in any manner, is guilty of a misdemeanor, and upon conviction thereof shall be fined not less than One Hundred Dollars (\$100.00) nor more than Five Hundred Dollars (\$500.00), and by imprisonment in the county jail for not less than six (6) months nor more than one (1) year.

14. The undersigned hereby certifies that the facts stated herein are true and correct.



(Consultant Signature)

Jeff D. Cowan, PE

(Printed Name and Title)

July 29, 2016

(Date)

Return this form along with your letter expressing interest to the agency from whom you received the notice of this project.



**State of Oklahoma
Office of Management and Enterprise Services
Division of Capital Assets Management
Construction and Properties**

Instructions for Completing DCAM-CAP Form 255

DCAM-CAP Form 255 is the companion form to CAP Form 254 which permits Architects, Landscape Architects, Engineers and Land Surveyors to respond to invitations to be considered for design projects from the State of Oklahoma. It permits consultants to tailor their response to the specific project being considered by an agency.

This form is used in conjunction with DCAM-CAP Form 254 in the same manner as Federal Standard Forms 254 and 255 are used for Federal selections. DCAM-CAP Form 255 is to be used for a specific project and DCAM-CAP Form 254 is used to be registered for consideration. **These forms have been designed to be as similar as possible to the Federal forms but SF254 and SF255 MAY NOT be used for State registration and selection.**

This form is divided into (6) break sections. To easily view where these sections occur, use the "View/Normal" command.

The first section contains a table, is unprotected, and allows for the first sheet/instructions to be deleted. The table can be deleted by selecting the whole table and using the "Edit/Cut" command.

The second section (Items 1 thru 5a) are protected and contains fields that can be filled in with the appropriate information.

The third and fourth sections (Item 6.) are unprotected and don't contain any fields. This allows for the whole table to be copied and pasted so that additional "Brief resumes..." can be input. The table can be copied by selecting the whole table and using the "Edit/Copy" And "Edit/Paste" commands.

The fifth and sixth sections (Items 7, 8, 9, 10) are protected and contain fields that can be filled in.

To better assist you in inputting information, you can turn on "Form Field Shading" and "Show Gridlines" using the forms toolbar.

Item 1. Enter the description of the project, as it appears in the letter you received announcing the project. If the agency has used a number to identify the project, include that number.

Item 2a. Enter the date of the letter announcing the project. You must reply to the agency as specified, to be considered. This completed form must accompany your letter of interest.

Item 2b. Enter the name of the agency from which you received the announcement letter.

Item 3. List the legal name and address of the firm or joint-venture submitting this form.

Item 3a. All firms, other than individuals practicing under their own license, or joint ventures must be certified by the Oklahoma Board of Registration for Professional Engineers and Land Surveyors or the Oklahoma Board of Governors for Licensed Architects and Landscape Architects.

Item 3b. Enter the firm's Tax ID Number.

Item 3c. Enter the name, title, and telephone number of the principal representing the firm or joint-venture submitting this form.

Item 3d. Enter the address of the office that will perform the work on this project, if it is different from that shown in item 3.

Item 4. List the number of personnel, by discipline, to be used on THIS PROJECT. List them only once by primary function. If functions are not shown, add them in the blanks provided.

Item 5. If a joint-venture is planned for this project, list the member firms and their respective areas of expertise here. All members must be registered with Construction and Properties. Provide total number of employees permanently employed by the firm listed. Do not include employees of consultants or sub-consultants. A separate

DCAM-CAP Form 255 is required for additional consultants or sub-consultants.

Item 6. This page is for the resumes of the key personnel. It may be copied as necessary. It should be noted that Oklahoma law requires that design work for Oklahoma projects require the seals of architects and engineers licensed in the State of Oklahoma.

Item 7. This page is for the listing of projects accomplished by the (P)artnership, (C)orporation, (J)oint- (V)enture, or (I)ndividual, which best represents the qualifications of the firm for the type of project similar to the one announced. Do not include projects of consultants or sub-consultants.

Item 8. This area may be used to provide any other information not covered elsewhere on the form, which is pertinent to this project. List any special qualifications, which are applicable to this project.

Item 9. All prospective design consultants must be aware of the quoted section of law from Title 61 of the Oklahoma Statutes. The signature in Item 11 acknowledges that the excerpt has been read.

Item 10. A principal of the firm must sign and date the questionnaire for it to be accepted. Original signatures are required.

Return this completed form to the agency issuing the invitation with a letter requesting consideration for the proposed project.



STATE OF OKLAHOMA

Consultant Services For A Specific Project

1. Project Name/Location for which firm is filing: EC 1813- Preliminary Engineering, Preparation of Construction Plans/Statewide	2a. Date of Announcement: July 15, 2016	2b. Agency originating announcement: Oklahoma Department of Transportation Project Management Division 200 N.E. 21st Street Oklahoma City, OK 73105
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3. Firm (or Joint-Venture) Legal Name and Address:

Terracon Consultants, Inc.
 4701 N. Stiles Ave.
 Oklahoma City, OK 73105

9522 East 47th Place, Unit D
 Tulsa, OK 74145

3a. Certificate of Authority Number: CA 4531

3c. Name, Title, & Telephone Number of Principal Contact:

Phil D. Wood, P.E.
 Regional Manager/Principal, Oklahoma City, OK 405-525-0453

Jeremy Basler, P.E.
 Department Manager/Principal, Oklahoma City, OK 405-525-0453

3b. FEI/Tax ID Number: [REDACTED]

3d. Address of office to perform work if different from Item 3:

4. Personnel by Discipline: (List each person only once, by primary function.)

<u>16</u> Administrative	___ Economists	___ Mechanical Engineers	<u>8</u> Environmental Scientists/Biologists
___ Architects	___ Electrical Engineers	___ Mining Engineers	<u>25</u> Project Managers
<u>1</u> CAD/CADD Technicians	___ Estimators	___ Planners: Urban/Regional	<u>1</u> Industrial Hygienist
___ Chemical Engineers	<u>3</u> Geologists	___ Sanitary Engineers	<u>2</u> Drilling Managers
<u>2</u> Civil Engineers	___ Hydrologists	<u>1</u> Soil Engineers	<u>11</u> Drillers
___ Construction Inspectors	___ Interior Designers	___ Specification Writers	<u>61</u> Field & Laboratory Technicians
___ Draftsmen	___ Landscape Architects	___ Structural Engineers	_____
___ Ecologists	___ Land Surveyors	___ Surveyors	<u>130</u> Total Personnel

5. If submittal is by a JOINT-VENTURE, list participating firms and outline specific areas of responsibility (including administrative, technical and financial) for each firm: All firms and the joint venture MUST be registered with Construction and Properties, Division of Capital Assets Management, 2401 N. Lincoln Blvd., Suite 212, P. O. Box 53448, Oklahoma City, OK 73152-3448.

5a. Has this Joint-Venture previously worked together? Yes No If YES, how many times? _____

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Michael H. Homan, P.E. Senior Principal Engineer/Regional Manager	a. Name and Title: Phil D. Wood, P.E. Senior Principal Engineer/Regional Manager
b. Project Assignment: Client Manager/Principal in Charge	b. Project Assignment: Oklahoma City Office Point of Contact for Quality Control
c. Name of firm with which associated: Terracon Consultants, Inc.	c. Name of firm with which associated: Terracon Consultants, Inc.
d. Years experience: With this firm 15 With other firms 15	d. Years experience: With this firm 21 With other firms 12
e. Education: Degree(s)/Year/Specialization M.S./1985/Civil Engineering/Oklahoma State University B.S./1983/Civil Engineering/University of Arkansas	e. Education: Degree(s)/Year/Specialization M.S./1981/Civil Engineering/Oklahoma State University B.S./1979/Civil Engineering/Oklahoma State University
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma/1989/Civil Engineering/15777 Arkansas/1989/Civil Engineering/7052 Oklahoma Certificate of Authority (if any): 4531	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Oklahoma/1986/Civil Engineering/14434 Kansas/1992/Civil Engineering/12734 Oklahoma/1997/Certified UST Consultant/0455 Oklahoma Certificate of Authority (if any): 4531
g. Other experience and qualifications relevant to the proposed project: Mr. Homan is responsible for administration and technical operations in the Tulsa office of Terracon Consultants, Inc. He oversees all geotechnical, construction services, and environmental operations, prepares and reviews reports, and is responsible for general administration of the office. Major projects that he has been involved in include pavement design for the H.E. Bailey and Creek Nation Turnpike expansions. He has also lead geotechnical studies for bridge foundation design for well over 100 bridges using LRFD design and Texas Cone Penetrometer design. Mr. Homan has lead pedological surveys collecting data to be used by ODOT in pavement design analysis. He has conducted geotechnical studies for cast in place and MSE retaining walls, as well as soil nail walls for several ODOT projects. He lead efforts for a geophysical survey of US 412 in Major and Woodward counties that utilized electrical resistivity and multichannel analysis of surface wave seismic geophysical surveys to investigate the impact of the karst formation within the highway right-of-way. Mr. Homan has been project manager and Principal in Charge over the past 20 years for various ODOT demand services contracts including: geotechnical services, prestressed concrete bridge beam inspection services, structural steel bridge member inspection services, NEPA environmental services and Phase I Environmental services. Prior to joining Terracon in 2000, Mr. Homan was Principal Engineer and Office Manager for another consulting firm located in Tulsa. He has authored and co-authored several technical papers relating to geotechnical engineering issues such as pavement evaluation, soft-ground tunneling, geophysical surveys and foundation analysis.	g. Other experience and qualifications relevant to the proposed project: Mr. Wood is the Office Manager in the Oklahoma City office of Terracon Consultants, Inc. He provides technical review and management for various types of major projects, in addition to overall administration and direction for the office. He has more than 21 years of experience with projects involving geotechnical engineering services. Mr. Wood provides various consulting services for clients, including local, state and federal agencies. He also provides services for private sector clients including aerospace, agricultural, chemical, oil and gas, waste management, plating, food products, metals refining, nuclear fuels processing, nuclear weapons assembly, real estate and tire manufacturing.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Vaughn Rupnow, P.E. Project Engineer	a. Name and Title: Jeremy W. Basler, P.E. Principal
b. Project Assignment: Project Engineer	b. Project Assignment: Geotechnical Department Manager - OKC
c. Name of firm with which associated: Terracon Consultants, Inc.	c. Name of firm with which associated: Terracon Consultants, Inc.
d. Years experience: With this firm 6 With other firms 8	d. Years experience: With this firm 15 With other firms 3
e. Education: Degree(s)/Year/Specialization B.S./2003/Civil Engineering/Iowa State University	e. Education: Degree(s)/Year/Specialization M.S./1996/Civil Engineering/Oklahoma State University B.S./1995/Civil Engineering/Oklahoma State University
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma/2012/Civil Engineering/25692 Iowa/Civil Engineering/19259 Oklahoma Certificate of Authority (if any): 4531	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Oklahoma/2001/Civil Engineering/20233 Oklahoma Certificate of Authority (if any): 4531
g. Other experience and qualifications relevant to the proposed project: Mr. Rupnow is a Geotechnical Engineer in Terracon's Tulsa, Oklahoma office and is responsible for creating geotechnical reports and overseeing laboratory testing on geotechnical projects. Mr. Rupnow also worked in Terracon's Bettendorf, Iowa in office in 2010 and 2011 prior to joining the Tulsa office at the beginning of 2012. ODOT projects that Mr. Rupnow has been involved include: <ul style="list-style-type: none"> • State Highway 9 over Union Pacific Railroad • U.S. 59 from U.S. 64 • State Highway 266 over Wayne Creek Prior to joining Terracon, Mr. Rupnow worked as a Geotechnical engineer for Allender Butzke Engineers in Des Moines, Iowa where he was responsible for preparing geotechnical reports and overseeing laboratory testing on geotechnical projects. As a part of his responsibilities, Mr. Rupnow also coordinated and scheduled two teams of drillers.	g. Other experience and qualifications relevant to the proposed project: Mr. Basler is the Geotechnical Department Manager for the Oklahoma City office of Terracon Consultants, Inc. His duties include project coordination, engineering analyses, proposal and report preparation and supervision of field exploration and laboratory testing. Mr. Basler also has specialty experience in transportation projects for the Oklahoma Turnpike Authority and Oklahoma Department of Transportation. Major projects that Mr. Basler has been involved include: <ul style="list-style-type: none"> • I-235 & NW 50th Interchange • Skydance Bridge • I-40/Morgan Road Interchange • SH 102 over North Canadian River • I-40 Crosstown MSE Walls Prior to joining the Terracon team, Mr. Basler was a geotechnical project manager for Law Engineering and Environmental Services, Inc. Mr. Basler worked on both OTA and ODOT projects while at Law Engineering.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .			
a. Name and Title: Jeff Dean, P.E. Senior Project Engineer		a. Name and Title: Norman K. Tan, Ph.D., P.E. Project Engineer	
b. Project Assignment: Project Engineer		b. Project Assignment: Project Engineer	
c. Name of firm with which associated: Terracon Consultants, Inc.		c. Name of firm with which associated: Terracon Consultants, Inc.	
d. Years experience:	With this firm	1	With other firms
			26
d. Years experience:	With this firm	9	With other firms
			8
e. Education: Degree(s)/Year/Specialization		e. Education: Degree(s)/Year/Specialization	
M.S./1992/Civil Engineering/Oklahoma State University B.S./1989/Civil Engineering/Texas A&M University B.S./1984/Engineering Technology/Texas A&M University		Ph.D./2005/Civil Engineering/University of Oklahoma M.S./2000/Civil Engineering/University of Oklahoma B.S./1998/Environmental Management, Health and Safety Management Minor	
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number PE/Oklahoma/16998 Oklahoma Certificate of Authority (if any): 4531		f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number PE/Oklahoma/2007/23083 Oklahoma Certificate of Authority (if any): 4531	
g. Other experience and qualifications relevant to the proposed project:		g. Other experience and qualifications relevant to the proposed project:	
<p>Mr. Dean is a Professional Engineer with 26 years of geotechnical engineering experience and pavement design and analysis. His experience includes in-situ testing-dilatometer, Pressuremeter, vane shear, DCP testing, AASHTO 1993 and AASHTO M-E pavement design software and procedures, Falling Weigh Deflectometer testing and analysis and field instrumentation- inclinometers, settlement plates and settlement tubes, as well as field permeability.</p> <p>Prior to joining Terracon's Geotechnical staff, Mr. Dean worked for the Oklahoma Department of Transportation. His recent project experience includes:</p> <ul style="list-style-type: none"> • Interstate 40 Crosstown realignment projects through downtown – Oklahoma City, Oklahoma • Interstate 35 - Carter County, Oklahoma • US 412 - Major County, Oklahoma • Interstate 40 - McIntosh County, Oklahoma • Turner Turnpike Landslide near Kellyville - Creek County, Oklahoma • US 169 near Collinsville - Tulsa County, Oklahoma 		<p>Dr. Tan is a geotechnical project manager for Terracon Consultants, Inc. His duties include project coordination, engineering analyses, proposal and report preparation, and supervision of field exploration and laboratory testing. He has been involved in geotechnical investigations for commercial and residential buildings, storage tanks, water towers, communication towers, transportation and related projects.</p> <p>While at the University of Oklahoma, his research involved pressuremeter and cone penetrometer testing in unsaturated soils and was funded by the National Science Foundation. He performed pressuremeter, cone penetrometer, triaxial and soil-water characteristic tests; measured matric suction of unsaturated soils using miniature tensionmeter. As a graduate teaching assistant in Introduction to Soil Mechanics and Laboratory and In-Situ Testing courses, Mr. Tan gained experience in performing a number of laboratory and in-situ tests including, sieve analysis, hydrometer analysis, Atterberg limits, specific gravity, standard and modified proctor, consolidation test, swell test, direct shear test, borehole shear test and pile pull out test.</p> <p>Recent ODOT projects that Dr. Tan has been the geotechnical project manager for include:</p> <ul style="list-style-type: none"> • I-235 & NW 50th Interchange • Skydance Bridge • I-40/Morgan Road Interchange • SH 102 over North Canadian River • I-40 Crosstown MSE Walls 	

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Fernando L. Aponte-Rivera, E.I.T.	a. Name and Title: Steve Levorson, PhD., P.E. Pavement Engineer
b. Project Assignment: Project Manager	b. Project Assignment: Pavement Specialist
c. Name of firm with which associated: Terracon Consultants, Inc.	c. Name of firm with which associated: Terracon Consultants, Inc.
d. Years experience: With this firm 2 With other firms 0	d. Years experience: With this firm 15 With other firms 3
e. Education: Degree(s)/Year/Specialization M.S./2013/Civil Engineering/Texas A&M University B.S./2011/Civil Engineering/ University of Puerto Rico at Mayaguez	e. Education: Degree(s)/Year/Specialization PhD./1993/Geotechnical Engineering/Iowa State University M.S./1991/Geotechnical Engineering/Iowa State University B.S./1990/Civil Engineering/Iowa State University
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma Certificate of Authority (if any): 4531	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Professional Engineer: Kansas and Missouri Oklahoma Certificate of Authority (if any): 4531
g. Other experience and qualifications relevant to the proposed project: Mr. Aponte-Rivera is a Geotechnical Project Manager in Terracon's Tulsa, Oklahoma office. Under the supervision of a Professional Engineer (P.E.), he assigns, coordinates, and evaluates field explorations and laboratory testing results; as well as prepares budgets, proposals and geotechnical reports. He also serves as a field engineer overseeing drilling, sampling, and <i>in-situ</i> testing methods. As Project Manager, Mr. Aponte-Rivera has worked on multiple transportation projects in Oklahoma. Projects include the following: <ul style="list-style-type: none"> • State Highway 11 Over Hominy Creek, Tulsa County, OK • State Highway 99 Over Washita River, Johnston County, OK • Jenks Toll Plaza, Tulsa County, OK 	g. Other experience and qualifications relevant to the proposed project: Dr. Levorson is a Pavement Specialist with Terracon Consultants, Inc. His experience includes technical and business practice accountability for pavement engineering, evaluation, design and management services for highway, airfield and port pavements. He provides project management, planning oversight and execution of field data collection operations, engineering analyses and report development for pavement evaluation studies and pavement management system implementations and updates. Dr. Levorson conducts specialized analyses of cone penetration test results, soft ground improvement; deep foundations; braced excavations; sheetpile waterfront structures; earth dams; landslide stabilization and stabilization of swelling soils. Dr. Levorson has consulted on materials engineering projects involving physical and chemical deterioration of Portland cement concrete and asphaltic cement concrete pavements throughout the United States. This work has included numerous technical presentations to engineering groups and public works officials, as well as forensic testimony in dispute resolution cases. He has conducted engineering research in the use of high sulfate ashes from coal fired power plants for soil stabilization. This work has resulted in several publications and numerous presentations to engineering groups. Dr. Levorson has also served as a pavement engineering consultant, specializing in nondestructive testing and evaluation of existing pavements for rehabilitation design. These projects involved analysis of falling weight deflectometer and ground penetrating radar data throughout the United States.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Bradley M. Watts, P.E. Principal/Geotechnical Engineer	a. Name and Title: Randy Kress Hydro Geologist
b. Project Assignment: Geotechnical Engineer	b. Project Assignment: Drilling Manager
c. Name of firm with which associated: Terracon Consultants, Inc.	c. Name of firm with which associated: Terracon Consultants, Inc.
d. Years experience: With this firm 25 With other firms 4	d. Years experience: With this firm 13 With other firms 24
e. Education: Degree(s)/Year/Specialization M.S./1986/Civil Engineering/Oklahoma State University B.S./1978/Civil Engineering/University of Oklahoma	e. Education: Degree(s)/Year/Specialization B.S./1978/Earth Sciences/Iowa State University Federal Hydrogeology Training/1988/Oklahoma State University
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Professional Engineer: Oklahoma Oklahoma Certificate of Authority (if any): 4531	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Oklahoma Certificate of Authority (if any): 4531
g. Other experience and qualifications relevant to the proposed project: Mr. Watts is responsible for preparing engineering reports and directing construction engineering and testing services. He has provided geotechnical design recommendation for earthwork, retaining walls, pavements, spread footings, pier and pike foundations. Mr. Watts has served on the Terracon's Geotechnical Services Committee. This committee serves to assure that Terracon is on the leading edge of new innovations in geotechnical engineering and helps set protocol and procedures for use throughout Terracon. Major projects that Mr. Watts has been involved with include foundation design for the Verdigris River Bridge, SH-18 Bridge over Quapaw Creek, Arkansas River Bridge, and bridge foundation and pavement design for various County bridges and roads. Mr. Watts previous experience while working for a consulting firm in northern California includes geotechnical engineering and supervision of field personnel on various residential and commercial developments, roadway reconstruction projects, and sewer and waterline rehabilitation projects.	g. Other experience and qualifications relevant to the proposed project: Mr. Kress is the drilling manager for Terracon Consultants, Inc. He coordinates the efficient and timely completion of drilling operations with subsurface soil sampling necessary for the preparation of client reports. Mr. Kress supervises three field drilling crews and a variety of subsurface assessment methods including the Menard pressuremeter. Mr. Kress has overseen hundreds of projects and has been involved in subsurface drilling investigations for the past 29 years. Mr. Kress has performed pressuremeter tests on hundreds of different projects throughout the United States Certifications Mr. Kress has are as follows: <ul style="list-style-type: none"> • Sara Operations (Hazwoper) • Nuclear Measurement Services • Concrete Technician I • Traffic Control Technician • Oklahoma Water Resources Board Drillers License

7 Work by firm or members which best illustrates current qualifications relevant to **THIS PROJECT** (list not more than 10 projects).

a. Project Name and Location	"P", "C", "JV" or "I"	b. Nature Of Firms Responsibility	c. Project Owner's Name and Address	d. Completion Date	e. Est. Cost (000's)	
					Entire Project	Firm's Portion
1. 12-Span Bridge- US 62 EB Over Salt Fork River Jackson County, OK	C	Geotechnical Engineering Services- Analysis and Design	Oklahoma Department of Transportation 200 N.E. 21st Street Oklahoma City, OK 73105	Ongoing	N/A	\$185
2. US Highway 385 Over Beaver River Cimarron County, OK	C	Geotechnical Engineering Services- Shoulder Soil Survey, Embankment Survey, Pedological Survey and Analysis and Design	Oklahoma Department of Transportation 200 N.E. 21st Street Oklahoma City, OK 73105	Ongoing	N/A	\$115
3. SH 51 Logan County, OK	C	Geotechnical Engineering Services- Embankment, Geological and Pedological Surveys	Oklahoma Department of Transportation 200 N.E. 21st Street Oklahoma City, OK 73105	Ongoing	N/A	\$108
4. US-60 Beginning at Jct. US-60/SH-35 Osage County, OK	C	Geotechnical-Exploration Studies and Surveys	Oklahoma Department of Transportation 200 N.E. 21st Street Oklahoma City, OK 73105	2014	N/A	\$104
5. SH 20 Keetonville Hill Keetonville, OK	C	Geotechnical Engineering Services-Slope Stability Analysis	Oklahoma Department of Transportation 200 N.E. 21st Street Oklahoma City, OK 73105	2014	N/A	\$430
6. US Highway 277 Grady County	C	Geotechnical Engineering Services- In-Place Shoulder, Pedological and Embankment Surveys	Oklahoma Department of Transportation 200 N.E. 21st Street Oklahoma City, OK 73105	Ongoing	N/A	\$87
7. US-69 Widening Muskogee, OK	C	Geotechnical Exploration Studies and Surveys	Oklahoma Department of Transportation 200 N.E. 21st Street Oklahoma City, OK 73105	2015	N.A	\$66
8. US-60 Beginning at Jct. US-60/SH-35 Osage County, OK	C	Geotechnical-Exploration Studies and Surveys	Oklahoma Department of Transportation 200 N.E. 21st Street Oklahoma City, OK 73105	2014	N/A	\$104
9. On-Demand Geotechnical Engineering- Roadway- Statewide	C	Geotechnical Engineering and Testing	Oklahoma Department of Transportation 200 N.E. 21st Street Oklahoma City, OK 73105	2013	N/A	\$250
10. On-Demand Geotechnical Engineering- Bridge- Statewide	C	Geotechnical Engineering and Testing	Oklahoma Department of Transportation 200 N.E. 21st Street Oklahoma City, OK 73105	2013	N/A	\$250

8. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project.

Terracon Consultants, Inc. is an employee-owned national consulting firm offering services in geotechnical engineering, construction materials testing and engineering, environmental, pavement and facilities engineering. Terracon has over 150 offices throughout the United States and has over 3,500 employees. Licensed professional engineers and certified technicians provide Terracon's geotechnical engineering and materials engineering and testing services. Ranked #35 in ENR's "Top 500 Design Firms", Terracon's diverse capabilities includes observation, testing, and consulting services in the areas of soil, bedrock, concrete, masonry, aggregates, asphalt, structural steel, and roofing systems. Our technical staff includes engineers (geotechnical, geological, civil and materials) and geologists, most of who are registered professional engineers, engineers-in-training, or certified professional geologists.

Terracon has provided geotechnical engineering, construction materials testing and environmental services in Oklahoma since 1981 from offices in Tulsa and Oklahoma City. The two Oklahoma offices have more than 130 employees and a fleet of six drill rigs (two truck-mounted, three ATV-mounted and one Geoprobe). Terracon also maintains its own drilling barge. Both our Tulsa and Oklahoma City laboratories are certified by AASHTO.

SPECIALIZED SERVICES

Terracon has been involved in geotechnical projects that range from pavement coring to extract samples of the existing pavement to gathering a rock formation's strike and dip inclination using a downhole camera and stereonet analysis. We have been involved in deep (70 feet, plus) rock cuts on US 60 in Osage county and the Gilcrease Expressway extension in southeast Osage county. We have conducted geotechnical explorations for well over 100 bridges and bridge approach embankments in practically every county in Oklahoma. Similarly, we have conducted geotechnical explorations for cut section and embankment construction in diverse geologic settings. Terracon conducted a geophysical survey of karst formations along US 412 in Major and Woodward Counties using electrical resistivity and multichannel analysis of surface wave seismic survey equipment. We have followed up these studies with more detailed geotechnical borings to assess the impact of voids on the proposed roadway section. We have collected falling weight deflectometer, ground penetrating and pavement core data along 3,800 miles of Oklahoma's non-toll NHS pavements. Field observation and testing, and laboratory procedures encompass the following services:

Laboratory Testing

- | | | | |
|-----------------------------|-------------------------------|--------------------------|------------------------|
| • Soil classification tests | • Resilient Modulus testing | • Unconfined compression | • Direct shear testing |
| • Triaxial shear testing | • Rock unconfined compression | • Consolidation testing | • Chloride ion content |
| • Permeability testing | • pH | • Resistivity | |

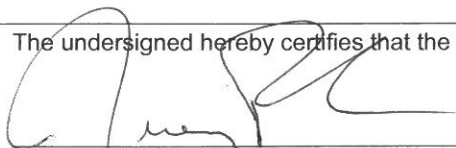
Field Testing

- | | | | |
|-----------------------------|----------------------------------|----------------------------|---|
| • Dynamic cone penetrometer | • Downhole pressuremeter testing | • Pavement coring | • Downhole electronic cone penetrometer |
| • Downhole camera | • Falling weight deflectometer | • Ground penetrating radar | |

9. 61 O.S., § 64. Offenses

Any consultant or person doing architectural, surveying or engineering work for the State of Oklahoma, their agents, servants or employees, who shall receive gratuity from any contractor or builder of any public building or works, or solicit, receive or make any political contribution from or to a contractor or a builder of any public building or works, or who attempts to interfere with the competitive bidding process of the State of Oklahoma in any manner, is guilty of a misdemeanor, and upon conviction thereof shall be fined not less than One Hundred Dollars (\$100.00) nor more than Five Hundred Dollars (\$500.00), and by imprisonment in the county jail for not less than six (6) months nor more than one (1) year. Any contractor or builder of any public building or works, their agents, servants or employees, who shall offer any gratuity or political contribution to any consultant doing architectural, surveying or engineering work for the State of Oklahoma, or who attempts to interfere with the competitive bidding process of the State of Oklahoma in any manner, is guilty of a misdemeanor, and upon conviction thereof shall be fined not less than One Hundred Dollars (\$100.00) nor more than Five Hundred Dollars (\$500.00), and by imprisonment in the county jail for not less than six (6) months nor more than one (1) year.

14. The undersigned hereby certifies that the facts stated herein are true and correct.


(Consultant Signature)

Jeremy Basler - Principal
(Printed Name and Title)

7-19-16
(Date)

Return this form along with your letter expressing interest to the agency from whom you received the notice of this project.



STATE
OF
OKLAHOMA

Consultant Services
for a Specific Project

1. Project Name/Location for which Firm is Filing:

EC-1813: Preliminary Engineering, Preparation of Construction Plans (Pre-Qualification for County Engineering Services)

2a. Date of Announcement

July 15, 2016

2b. Agency Originating Announcement

ODOT

3. Firm (or Joint-Venture) Name & Address

LEE Engineering, LLC

1000 W. Wilshire Blvd., Ste. 403-E
Oklahoma City, OK 73116



3c. Name, Title & Telephone Number of Principal to Contact:

Jim C. Lee, P.E., PTOE, Ph.D. – CEO
(602)955-7206

3A. Certificate of Authority Number: 5860

3d. Address of office to perform work, if different from item 3.

Same as 3

3b. FEI/Tax ID Number:

FEI # [REDACTED]

4. Personnel by Discipline: (List each person only once, by primary function.) Enter proposed consultant personnel to be utilized on this project on line (A) and in-house personnel on line (B).

A	B		A	B		A	B	
2	4	Administrative	_____	_____	Electrical Engineers	_____	_____	Oceanographers
_____	_____	Architects	_____	_____	Estimators	_____	_____	Planners Urban/Regional
_____	_____	CAD Operators	_____	_____	Geologists	_____	_____	Sanitary Engineers
_____	_____	Chemical Engineers	_____	_____	Hydrologists	_____	_____	Soils Engineers
1	1	Civil Engineers	_____	_____	Interior Designers	_____	_____	Specification Writers
_____	_____	Construction Inspectors	_____	_____	Landscape Architects	_____	_____	Structural Engineers
2	2	Draftsmen	_____	_____	Mechanical Engineers	_____	_____	Surveyors
_____	_____	Ecologists	_____	_____	Mining Engineers	5	10	Transportation Engineers
_____	_____	Economists	_____	_____		_____	_____	
						16	29	Total Personnel

5. If submittal is by joint-venture list participating firms and outline specific areas of responsibility (including administrative, technical and financial) for each firm:

(Attach SF 254 for each if not on file with Procuring Office.) **Not Applicable**

5a. Has this Joint-Venture previously worked together? Yes No

6. Brief resume of key persons, specialists, and individual consultants anticipated for this project.

<p>a. Name & Title: Jim C. Lee, P.E., PTOE, PhD; CEO</p>	<p>a. Name & Title: Esther M. Shaw-Smith, P.E.</p>
<p>b. Project Assignment: Principal</p>	<p>b. Project Assignment: Project Manager</p>
<p>c. Name of Firm with which associated: LEE Engineering</p>	<p>c. Name of Firm with which associated: LEE Engineering</p>
<p>d. Years experience: With This Firm <u>27</u> With Other Firms <u>20</u></p>	<p>d. Years experience: With This Firm <u>4.5</u> With Other Firms <u>9</u></p>
<p>e. Education: Degree(s)/Year/ Specialization</p> <ul style="list-style-type: none"> • Ph.D., Civil Engineering, University of Oklahoma, 1979 • M. Eng., Civil Engineering, Pennsylvania State University, 1969 • B.S., Civil Engineering, University of New Mexico, 1967 	<p>e. Education: Degree(s)/Year/ Specialization</p> <ul style="list-style-type: none"> • B.S. – Civil Engineering, University of Oklahoma, 2003
<p>f. Active Registration: State/Year First Registered/Discipline/Oklahoma License Number</p> <ul style="list-style-type: none"> • State: Oklahoma • Year First Registered: 1972 • Discipline: Civil • Oklahoma License Number: 9120 	<p>f. Active Registration: Year First Registered/Discipline</p> <ul style="list-style-type: none"> • State: Oklahoma • Year First Registered: 2009 • Discipline: Civil • Oklahoma License Number: 23711
<p>g. Other Experience and Qualifications relevant to the proposed project:</p> <p>Dr. Lee, founder and CEO of LEE, has over 40 years experience in traffic engineering and transportation planning. His experience includes serving as a state and city traffic engineer as well as senior project manager for consulting firms. A brief description of his experience is outlined below:</p> <ul style="list-style-type: none"> • Mesa Before-After Evaluation of Traffic Adaptive System – Project Manager on a before-after study of the City of Mesa Sydney Coordinated Adaptive Traffic System (SCATS). Traffic data including volume, travel time, side-street delay were collected and compared under time-of-day (TOD) and SCATS. The study was done during high season (December) and low season (July) traffic conditions. Travel time was collected using both GPS-instrumented floating car and Bluetooth® re-identification techniques. • Lakewood, Colorado Signal System Feasibility Study and Design - Technical project manager on study and design to replace City's current system with state-of-the-art ITS-compatible system. Developed functional ATMS specifications and a procurement method which permitted creativity and innovation of the system provider rather than a traditional bid process. • Glendale, AZ Circulation Study – Project Principal for a circulation study to investigate traffic access and circulation alternatives. Alternatives were studied to determine their operational effectiveness and to identify problems which may impact the operations of other streets and access points in the downtown area. Additionally, on-street parking needs were identified within the context of each alternative without jeopardizing traffic operations and safety. 	<p>g. Other Experience and Qualifications relevant to the proposed project:</p> <p>Mrs. Shaw-Smith has more than ten years of experience involving a variety of public works projects including roadway & drainage design, traffic signal design, signal timing, and traffic operations management improvements. She has served as Project Manager on the following projects:</p> <ul style="list-style-type: none"> • SH-20 Intersection Improvements at Clubhouse Road and Trailwood Drive, Claremore, OK – Mrs. Shaw-Smith served as the Project Manager for the signal design component of this ODOT Local Government funded project. Design plans included the modification of the existing traffic signal at Clubhouse Road and the installation of a new traffic signal at Trailwood Drive. Signing, striping, and school zone flashers along with pedestrian crossings for nearby Westside Elementary were also included in design. • ODOT Statewide Fiber Optic Broadband Network, EC-1346C, Various Counties, OK – Mrs. Shaw-Smith served as Project Manager for a statewide initiative to provide reliable broadband service to community anchor institutions in various counties. Design included over 150 miles of fiber in western Oklahoma. This project also included construction administration for fiber conduit and cable installation. • Meridian Road, ODOT Local Government, Lone Grove, OK, Carter County – Mrs. Shaw-Smith served as the Project Manager for the reconstruction of Meridian Road in Lone Grove. Plans included signal modifications at the intersection at US-70, signing and striping plans through a school zone and construction sequencing plans.

6. Brief resume of key persons, specialists, and individual consultants anticipated for this project.

<p>a. Name & Title: John Denholm, P.E., PTOE</p>	<p>a. Name & Title: Justin R. Willis, P.E.</p>
<p>b. Project Assignment: Project Engineer</p>	<p>b. Project Assignment: Sr. Engineering Designer</p>
<p>c. Name of Firm with which associated: LEE Engineering</p>	<p>c. Name of Firm with which associated: LEE Engineering</p>
<p>d. Years experience: With This Firm <u>14</u> With Other Firms <u>0</u></p>	<p>d. Years experience: With This Firm <u>2</u> With Other Firms <u>7</u></p>
<p>e. Education: Degree(s)/Year/ Specialization</p> <ul style="list-style-type: none"> • M.E., Civil Engineering, Texas A & M University, 2001 • B.A., Mathematics, University of Saint Thomas, 1999 	<p>e. Education: Degree(s)/Year/ Specialization</p> <ul style="list-style-type: none"> • B.S., Civil Engineering, Oklahoma State University, 2010
<p>f. Active Registration: Year First Registered/Discipline</p> <ul style="list-style-type: none"> • State: Oklahoma, Texas • Year First Registered: 2014, 2006 • Discipline: Civil • License Number: OK 26988, TX 97330 	<p>f. Active Registration: Year First Registered/Discipline</p> <ul style="list-style-type: none"> • State: Oklahoma • Year First Registered: 2014 • Discipline: Civil • Oklahoma License Number: 27254
<p>g. Other Experience and Qualifications relevant to the proposed project: Mr. Denholm is a Project Engineer with Lee Engineering and has over ten years of diverse traffic engineering and transportation planning experience. His project experience includes the development of signal timing plans, traffic signal design, roundabout analysis and design, speed zone studies, traffic operations studies, traffic impact studies and transportation planning. He has extensive knowledge of traffic engineering software including HCS, PASSER II, PASSER III, SIDRA, Synchro, SimTraffic, PC-Travel, PetraPro, and TruTraffic. Project Experience includes:</p> <ul style="list-style-type: none"> • Pedestrian Hybrid Beacon (HAWK) Signal Design, Temple, TX – Prepared PS&E for the first installation of a Pedestrian Hybrid Beacon (HAWK signal) in Temple TX. The pedestrian installation included APS and serves a crosswalk at Temple College. The HAWK signal was designed so that the equipment could be re-used when the intersection is converted to a full R-Y-G signal installation. • Multiple Traffic Signal Designs, Various Cities, TX – Prepared plans and specifications for multiple signals in various cities including: <ul style="list-style-type: none"> ○ Two (2) signals along Beltline Road in Carrollton, TX. Included temporary and permanent signals. ○ Six (6) signals, including one (1) diamond interchange, along Inwood Road in Dallas, TX. ○ Modification of the signal at the intersection of Josey Lane and Hebron Parkway in Carrollton, TX. ○ Temporary traffic signals to be installed at six (6) interchanges during the construction of the SH 121 main lanes in Denton County, TX. 	<p>g. Other Experience and Qualifications relevant to the proposed project: Mr. Willis has over seven years of experience in transportation engineering. He worked for the ODOT Design Squad for three years during his undergraduate study at Oklahoma State University. He has led several transportation design teams in the last several years, all of which were for ODOT funded projects. A brief list of his project experience includes:</p> <ul style="list-style-type: none"> • US-75 & Box Avenue, Okmulgee, OK – Mr. Willis served as the Project Engineer for the traffic signal design portion of the roadway design plans for the installation of a new traffic signal at a presently two-way stop controlled intersection along US-75 in Okmulgee, OK. This signal was warranted based on new development being constructed at US-75 & Box Avenue. Mr. Willis developed traffic signal design plans which included pay item notes and quantities, wiring diagram, sequencing chart, phasing diagram, pavement marking and signing, as well as intersection traffic control plans. • I-35, Kay County, ODOT JP 27063(04) - Mr. Willis was the lead designer for the roadway portion of this project which involved the bridge replacement on I-35 over US-177 in Kay County. He worked in collaboration with the bridge team to ensure clearances were met at all times to allow the roadways to remain open during construction. Design plans included typical sections, plan and profile sheets, traffic control layouts and sequencing, signing and striping plans, and special detail sheets for temporary ramps and crossovers.

6. Brief resume of key persons, specialists, and individual consultants anticipated for this project.

<p>a. Name & Title: Erica E. Myers, P.E.</p>	<p>a. Name & Title: Noah Webster</p>
<p>b. Project Assignment: Project Engineer</p>	<p>b. Project Assignment: CAD Technician</p>
<p>c. Name of Firm with which associated: LEE Engineering</p>	<p>c. Name of Firm with which associated: LEE Engineering</p>
<p>d. Years experience: With This Firm <u>1</u> With Other Firms <u>10</u></p>	<p>d. Years experience: With This Firm <u><1</u> With Other Firms <u>0</u></p>
<p>e. Education: Degree(s)/Year/ Specialization</p> <ul style="list-style-type: none"> B.S., Civil Engineering, California Polytechnic State University, San Luis Obispo, 2006 	<p>e. Education: Degree(s)/Year/ Specialization</p> <ul style="list-style-type: none"> CAD Course Completion, Canadian Valley Technology Center, Yukon, 2016
<p>g. Active Registration: Year First Registered/Discipline</p> <ul style="list-style-type: none"> State: Oklahoma, California Year First Registered: 2013, 2009 Discipline: Civil, Traffic License Number: OK 26217, CA TE 2535 	<p>g. Active Registration: Year First Registered/Discipline</p> <ul style="list-style-type: none"> State: Year First Registered: Discipline: Oklahoma License Number:
<p>g. Other Experience and Qualifications relevant to the proposed project:</p> <p>Mrs. Myers is a Project Engineer in Lee Engineering’s Oklahoma office. She has 10 years of experience in a variety of traffic engineering and transportation planning projects. Her traffic engineering project experience includes traffic impact analysis, traffic signal design, traffic impact fee programs, congestion management programs, and temporary traffic control plans. Mrs. Myers also has extensive project experience in environmental baseline analysis for airports, housing element updates, environmental impact reports, and public outreach related to transportation projects.</p> <ul style="list-style-type: none"> Temporary Traffic Control Plans for SH 19 over Box Elder Creek in Caddo County – ODOT - Mrs. Myers served as the Traffic Engineer responsible for preparing the Temporary Traffic Control (TTC) Plans for the SH19 Bridge construction over Box Elder Creek in Caddo County. The design of temporary traffic control for the project was complicated by the fact that an existing railroad track, three-legged intersection, and several residential driveways are located within close proximity to the bridge and construction area. Coweta Toll Plaza Modernization Operational Analysis, OTA MU-MC-43, Coweta, OK – Mrs. Myers served as the Project Engineer for this project which included the operational analysis of three alternative configurations for the Coweta Toll Plaza along the Muskogee Turnpike at SH-51. Analysis was performed using HCS2010 and included basic freeway segments, merge/diverge area analysis, and weaving segment analysis. 	<p>g. Other Experience and Qualifications relevant to the proposed project:</p> <p>Mr. Webster has completed over 1000 hours of Computer Aided Drafting (CAD) coursework at the Canadian Valley Technology Center. His duties at Lee Engineering currently include drafting, printing, field reconnaissance, and data collection. Mr. Webster has worked on the following projects as a CAD Technician:</p> <ul style="list-style-type: none"> JKT and I-40 Interchange Modifications, OTA JKT-2343, Oklahoma City, OK – Mr. Webster has performed sheet setups for pavement marking and signing, lighting, and signal designs. OKC Zoo Parking Lot Improvements, Oklahoma City, OK – Mr. Webster performed drafting for the signal modification plans at the intersection of Remington Place and OKC Zoo Drive in Oklahoma City, OK. Plans included signal layout, sequencing chart, phasing diagram, and wiring diagram. Wall Price Keller Road Improvements, Keller, TX – Mr. Webster prepared sheet setups for pay items and notes, typical sections, cross sections, pavement marking and signing, traffic control, and erosion control for this City of Keller, TX project. Rural Road at Terrace Rd and Tyler Street Intersection Improvements, Tempe, AZ – Mr. Webster performed drafting on the intersection improvements design plans for this City of Tempe, AZ project. Drafting was performed for the typical sections, intersection geometric layout, pavement marking and signing, and plan and profile sheets. Mr. Webster also assisted in the preparation of technical specifications and special provisions for this project.

7. Work by firm or joint-venture members which best illustrates current qualifications relevant to this project (list no more than 10 projects).						
a. Project Name & Location	"P", "C", "JV" or "I"	b. Nature of Firm's Responsibility	c. Project Owner's Name and Address	d. Completion Date	e. Est. Cost ((000's)	
					Entire Project	Firm's Portion
1) City of Oklahoma City On Call Citywide Traffic Engineering Services	C	LEE was selected as the Citywide On-Call Traffic Engineering consultant for the City of Oklahoma City. Anticipated services will include data collection, traffic signal design and review, traffic impact analysis and review, coordinated corridor signal timings, and ITS services.	City of Oklahoma City 420 W. Main, Suite 700 Oklahoma City, OK 73102	07/2014	Task Order Based	100%
2) SH-20 Traffic Signal Design and Improvements, Claremore, OK	C	LEE provided traffic engineering services for this ODOT Local Government funded project. Design plans included the modification of the existing traffic signal at Clubhouse Road and the installation of a new traffic signal at Trailwood Drive. Signing, striping, and school zone flashers along with pedestrian crossings for nearby Westside Elementary were also included in design. Signal timing plans including time of day plans for AM and PM peak periods were analyzed and implemented into the design using Synchro.	ODOT Division 8 4002 N. Mingo Valley Expressway Tulsa, OK 74116	11/2013	\$225	\$22
3) Oklahoma Department of Transportation (ODOT) Statewide Fiber Optic Network	C	LEE provided traffic engineering services for the installation of over 150 miles of fiber optic cable in various counties in Western Oklahoma. Community anchor institutions including universities, hospitals, and technology centers were connected to the fiber broadband network as part of this project.	ODOT 200 NE 21st Street Oklahoma City, OK 73105	03/2013	\$525	\$400
4) Creek Turnpike and Elm Street Interchange Improvements Study (CKT-MC-22)	C	LEE provided traffic engineering services as a subconsultant for this Oklahoma Turnpike Authority project in Jenks, OK. Lee performed capacity and operational analysis of the interchange intersections and provided weaving analysis for the interchange ramps for this interchange study.	Oklahoma Turnpike Authority 3550 N. Martin Luther King Ave. Oklahoma City, OK 73111	05/2014	\$750	\$44
5) Muskogee Turnpike & SH-51 Interchange Improvements (MU-MC-43)	C	LEE provided traffic engineering services as a subconsultant for this Oklahoma Turnpike Authority project in Coweta, OK. Lee performed capacity and operational analysis of the interchange alternatives which included basic freeway, merge/diverge, and weaving segment analysis.	Oklahoma Turnpike Authority 3550 N. Martin Luther King Ave. Oklahoma City, OK 73111	05/2016	\$650	\$55

6) Traffic Signal Timing along Lincoln Blvd Corridor, NE 4th Street to NE 50th Street	C	LEE prepared coordinated signal timing plans for this project along Lincoln Boulevard from NE 4 th Street to NE 50 th Street. Engineering services included preparing time of day plans, Synchro models, splits, offsets, and time-space diagrams. Field reconnaissance and fine tuning of the corridor was also performed.	City of Oklahoma City 420 W. Main, Suite 700 Oklahoma City, OK 73102	02/2014	\$16	\$16
7) EC-1801, US-281 Spur over Canadian River Data Collection and Accident Analysis	C	LEE was a subconsultant to CP&Y on this current ODOT contract. This project includes the reconfiguration and alterative analysis of US-281 Spur over the Canadian River in Hinton, OK. LEE performed data collection along each alternative route and compiled accident data within the project extents.	CP&Y 2000 N. Classen, Suite 1410 Oklahoma City, OK 73106	2/2016	\$200	\$7
8) JKT & I-40 Interchange Alternative Study on Southwest Loop (JKT-2343)	C	LEE provided traffic engineering services as a subconsultant for this Oklahoma Turnpike Authority project in Oklahoma City, OK. Lee performed capacity and operational analysis of the interchange alternatives which included basic freeway, merge/diverge, and weaving segment analysis.	Oklahoma Turnpike Authority 3550 N. Martin Luther King Ave. Oklahoma City, OK 73111	05/2016	\$550	\$70
9) MAPS3, Phase I, Projects 1,2,3, Sidewalk Plans and Signal Improvements	C	LEE provided traffic engineering services as a subconsultant for the design of pedestrian signal installations and enhancements for a several sidewalk projects throughout Oklahoma City, OK	City of Oklahoma City 420 W. Main, Suite 700 Oklahoma City, OK 73102	12/2013	\$200	\$30
10) US-75 and Box Avenue Traffic Signal Design, Okmulgee, OK	C	LEE provided traffic engineering services and traffic signal design plans for the installation of a traffic signal at the intersection of US-75 and Box Avenue. Services for this project included traffic data collection, future year and development traffic analysis, signal warrant analysis and design plans including pay items and notes, signal layout, phasing diagram, signal timings, wiring diagram, and construction traffic control. Coordination through ODOT Roadway Design and Division 8 was necessary in order to obtain final approval for design plans.	Love's Travel Stops and Country Stores Corporate Office 10601 N. Pennsylvania Avenue Oklahoma City, OK 73120	12/2015	\$24	\$24

8. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project.

Lee Engineering, LLC (LEE) is a civil engineering firm dedicated to providing traffic engineering and transportation planning services to federal, state and local agencies, private clients, and other design professionals. Founded in 1988, LEE has built a reputation on our ability to integrate our traffic engineering and transportation planning expertise with technical know-how to produce powerful, customized decision making tools. LEE's extensive traffic engineering project experience will enable us to render superior performance on this project.

Our applicable experience and valuable assets for this project includes:

- Experienced Project Team
- Local Oklahoma City office
- Project Team with extensive applicable project experience
 - Transportation Planning Studies
 - Stop Control Warrant Analysis
 - Area Transportation Planning
 - Feasibility Studies
 - Traffic Operations Research
 - Traffic Counts and Data Collection
 - Traffic Signal Warrant Analysis
 - Travel Time/Delay Studies
 - Capacity/LOS Analysis
 - Intersection Analysis
 - Sight Distance Studies
 - Accident Analysis
 - Speed Zone Studies



Beyond the services and capabilities of completing several traffic engineering projects, **Lee Engineering** provides other in-house engineering services that go above and beyond to accommodate our clients' needs. Such services include GPS inventory and GIS capabilities. These services are provided by personnel within the local office, therefore, providing the engineer with intimate knowledge of the data and collection procedures.

We firmly believe that you will see the difference in our work.

9. 61..o.S.,§ 64 Offenses

Any consultant or person doing architectural surveying or engineering work for the State of Oklahoma, their agents, servants or employees, who shall receive gratuity from any contractor or builder of any public building or works o, or solicit, receive or make any political contribution from or to a contractor or a builder of any public building or works, or who attempts to interfere with the competitive bidding process of the State of Oklahoma in any manner, is guilty of a misdemeanor, and upon conviction thereof shall be fined not less than One Hundred Dollars (\$100.00) nor more than Five Hundred Dollars (\$500,00), and by imprisonment in the county jail for not less than six (6) months nor more than one (1) year. Any contractor or builder of any public building or works, their agents, servants or employees, who shall offer any gratuity or political contribution of any consultant doing architectural, surveying or engineering work for the State of Oklahoma, or who attempts to interfere with the competitive bidding process of the State of Oklahoma in any manner, is guilty of a misdemeanor, and upon conviction thereof shall be fined not less than One Hundred Dollars (\$100.00) nor more than Five Hundred Dollars (\$500.00) and by imprisonment in the county jail for not less than six (6) months nor more than one (1) year.

10. The foregoing is a statement of facts.

Signature: 

Typed Name and Title: Jim Lee, P.E., PTOE, PhD, CEO

Date:

July 29, 2016

Return this form along with your letter expressing interest to the agency from whom you receive the notice of this project



**State of Oklahoma
Office of Management and Enterprise Services
Division of Capital Assets Management
Construction and Properties**

Instructions for Completing DCAM-CAP Form 255

DCAM-CAP Form 255 is the companion form to CAP Form 254 which permits Architects, Landscape Architects, Engineers and Land Surveyors to respond to invitations to be considered for design projects from the State of Oklahoma. It permits consultants to tailor their response to the specific project being considered by an agency.

This form is used in conjunction with DCAM-CAP Form 254 in the same manner as Federal Standard Forms 254 and 255 are used for Federal selections. DCAM-CAP Form 255 is to be used for a specific project and DCAM-CAP Form 254 is used to be registered for consideration. **These forms have been designed to be as similar as possible to the Federal forms but SF254 and SF255 MAY NOT be used for State registration and selection.**

This form is divided into (6) break sections. To easily view where these sections occur, use the "View/Normal" command.

The first section contains a table, is unprotected, and allows for the first sheet/instructions to be deleted. The table can be deleted by selecting the whole table and using the "Edit/Cut" command.

The second section (Items 1 thru 5a) are protected and contains fields that can be filled in with the appropriate information.

The third and fourth sections (Item 6.) are unprotected and don't contain any fields. This allows for the whole table to be copied and pasted so that additional "Brief resumes..." can be input. The table can be copied by selecting the whole table and using the "Edit/Copy" And "Edit/Paste" commands.

The fifth and sixth sections (Items 7, 8, 9, 10) are protected and contain fields that can be filled in.

To better assist you in inputting information, you can turn on "Form Field Shading" and "Show Gridlines" using the forms toolbar.

Item 1. Enter the description of the project, as it appears in the letter you received announcing the project. If the agency has used a number to identify the project, include that number.

Item 2a. Enter the date of the letter announcing the project. You must reply to the agency as specified, to be considered. This completed form must accompany your letter of interest.

Item 2b. Enter the name of the agency from which you received the announcement letter.

Item 3. List the legal name and address of the firm or joint-venture submitting this form.

Item 3a. All firms, other than individuals practicing under their own license, or joint ventures must be certified by the Oklahoma Board of Registration for Professional Engineers and Land Surveyors or the Oklahoma Board of Governors for Licensed Architects and Landscape Architects.

Item 3b. Enter the firm's Tax ID Number.

Item 3c. Enter the name, title, and telephone number of the principal representing the firm or joint-venture submitting this form.

Item 3d. Enter the address of the office that will perform the work on this project, if it is different from that shown in item 3.

Item 4. List the number of personnel, by discipline, to be used on THIS PROJECT. List them only once by primary function. If functions are not shown, add them in the blanks provided.

Item 5. If a joint-venture is planned for this project, list the member firms and their respective areas of expertise here. All members must be registered with Construction and Properties. Provide total number of employees permanently employed by the firm listed. Do not include employees of consultants or sub-consultants. A separate

DCAM-CAP Form 255 is required for additional consultants or sub-consultants.

Item 6. This page is for the resumes of the key personnel. It may be copied as necessary. It should be noted that Oklahoma law requires that design work for Oklahoma projects require the seals of architects and engineers licensed in the State of Oklahoma.

Item 7. This page is for the listing of projects accomplished by the (P)artnership, (C)orporation, (J)oint- (V)enture, or (I)ndividual, which best represents the qualifications of the firm for the type of project similar to the one announced. Do not include projects of consultants or sub-consultants.

Item 8. This area may be used to provide any other information not covered elsewhere on the form, which is pertinent to this project. List any special qualifications, which are applicable to this project.

Item 9. All prospective design consultants must be aware of the quoted section of law from Title 61 of the Oklahoma Statutes. The signature in Item 11 acknowledges that the excerpt has been read.

Item 10. A principal of the firm must sign and date the questionnaire for it to be accepted. Original signatures are required.

Return this completed form to the agency issuing the invitation with a letter requesting consideration for the proposed project.




STATE OF OKLAHOMA

Consultant Services
For A Specific Project

1. Project Name/Location for which firm is filing: Engineering Contract 1813 Oklahoma Department of Transportation 200 NE 21st St Oklahoma City, OK 73105	2a. Date of Announcement: July 15, 2016	2b. Agency originating announcement: Oklahoma Department of Transportation, Project Management Division
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3. Firm (or Joint-Venture) Legal Name and Address:



1437 South Boulder Avenue, Suite 1550
Tulsa, OK 74119

3a. Certificate of Authority Number: 1487

3b. FEI/Tax ID Number: XXXXXXXXXX

3c. Name, Title, & Telephone Number of Principal Contact:

Janet K. Meshek, PE, CFM, President 918-392-5620
Brandon Claborn, PE, CFM, Principal 918-392-5620

3d. Address of office to perform work if different from Item 3:

4. Personnel by Discipline: (List each person only once, by primary function.)

<u>3</u> Administrative	___ Economists	___ Mechanical Engineers	<u>5</u> <u>Right-of-Way Specialist</u>
___ Architects	___ Electrical Engineers	___ Mining Engineers	<u>3</u> <u>Civil Engineer Interns</u>
<u>2</u> CAD/CADD Technicians	___ Estimators	<u>2</u> Planners: Urban/Regional	<u>6</u> <u>GIS Specialists</u>
___ Chemical Engineers	___ Geologists	___ Sanitary Engineers	<u>3</u> <u>Surveying Technicians</u>
<u>11</u> Civil Engineers	<u>5</u> Hydrologists	___ Soil Engineers	___ _____
<u>1</u> Construction Inspectors	___ Interior Designers	___ Specification Writers	___ _____
___ Draftsmen	___ Landscape Architects	___ Structural Engineers	___ _____
___ Ecologists	<u>2</u> Land Surveyors	___ Surveyors	<u>43</u> Total Personnel

5. If submittal is by a JOINT-VENTURE, list participating firms and outline specific areas of responsibility (including administrative, technical and financial) for each firm: All firms and the joint venture MUST be registered with Construction and Properties, Division of Capital Assets Management, 2401 N. Lincoln Blvd., Suite 212, P. O. Box 53448, Oklahoma City, OK 73152-3448.

5a. Has this Joint-Venture previously worked together? Yes No If YES, how many times? _____

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Janet K. Meshek, PE, CFM, Principal Engineer	a. Name and Title: Brandon Claborn, PE, CFM, Associate Principal
b. Project Assignment: Principal Engineer – QA/ QC Hydrology and Hydraulics	b. Project Assignment: Principal Engineer – Hydrology and Hydraulics
c. Name of firm with which associated: Meshek & Associates, PLC, Tulsa, OK	c. Name of firm with which associated: Meshek & Associates, PLC, Tulsa, OK
d. Years experience: With this firm 28 With other firms 10.5	d. Years experience: With this firm 15 With other firms 2
e. Education: Degree(s)/Year/Specialization BS / Oklahoma State University / 1977 / Civil Engineering MS / Oklahoma State University / 1987 / Civil Engineering	e. Education: Degree(s)/Year/Specialization BS / Oklahoma State University / 1996 / Biosystems Engineering MS / Oklahoma State University / 1998 / Biosystems Engineering
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number 1982 / Professional Engineer / Oklahoma / PE No. 13038 / Civil Engineering 1999 / Certified Floodplain Manager / Oklahoma / CFM No. OK-00-00043 2005 / Professional Engineer / Texas / PE No. 96430 / Civil Engineering Oklahoma Certificate of Authority (if any): 1487	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number 2003 / Professional Engineer / Oklahoma / PE No. 20914 / Agricultural Engineering 2003 / Certified Floodplain Manager / Oklahoma / CFM No. OK-03-00007 Oklahoma Certificate of Authority (if any): 1487
g. Other experience and qualifications relevant to the proposed project: Mrs. Janet K. Meshek, P.E., CFM currently serves as the President and Principal Engineer for Meshek & Associates, PLC. In this position, she is responsible for ensuring projects meet scheduling, budgetary, quality, operational and management requirements. She has performed successfully in this capacity for numerous clients including state, federal and local government. Ms. Meshek has over 30 years of experience in planning, hydrologic and hydraulic analysis and design of storm drainage systems, floodplain management, and flood control projects. She has also served as an expert witness in numerous drainage-related litigation cases. Since forming Meshek & Associates, Inc. in 1988, Mrs. Meshek has assisted in the completion of numerous Hydrology and Hydraulic Projects for the Oklahoma Department of Transportation, including the following: — EC 1332B: US 270 Dewey County (roadway hydrology & hydraulics only) — EC 1328: SH 63 in LeFlore County (Five Bridges) — EC 1294: Hydraulic Analysis of I-244 Bridge over the Arkansas River in Tulsa, OK — EC 1280: US 66 in Creek County (hydrology & hydraulics) Mrs. Meshek has also served as the Principal in Charge or Project Manager in the completion of comprehensive drainage studies for municipalities across the state of Oklahoma. Each study included the development of detailed hydrologic and hydraulic computer models; the evaluation and design of flood damage mitigation methods including open channel improvements, enclosed storm drainage systems, bridge/culvert improvements, detention/retention ponds, and other relief measures; and the preparation and coordination of comprehensive reports and presentations.	g. Other experience and qualifications relevant to the proposed project: Since joining Meshek & Associates in April of 2001, Mr. Claborn has been involved in numerous hydrologic and hydraulic studies and stormwater design projects. His expertise focuses on the development of hydrologic and hydraulic models to analyze drainage problems and design solutions. This includes using GIS tools to assist in the development of input parameters and process output data. Mr. Claborn also serves as the Lead Engineer for Stormwater Quality Management and Low Impact Development projects. Mr. Claborn was previously employed with USDA-Natural Resources Conservation Service. He developed engineering designs for landowners in 17 different counties in Northeast Oklahoma. In the recent years, while in service under Meshek, Mr. Claborn has been involved in the following projects for the Oklahoma Department of Transportation: — EC 1593: Gilcrease Expressway — EC 1500F: Hydraulic Analysis of US 81 over Kingfisher Creek — EC 1463: H&H for Multiple RCB Extensions on SH 20 Pawnee County — EC 1394: Multiple Bridge H&H Projects as a subcontractor (US 81 Flat Creek, SH89 Post Oak Creek, SH 85A Horse Creek, SH 82 West Fork Creek) — EC 1328: SH 63 in LeFlore County (Five Bridges) — EC 1294: Hydraulic Analysis of I-244 Bridge over the Arkansas River in Tulsa, OK Other relevant work includes the completion of Master Drainage Plans for the Cities of Sapulpa, Claremore and Okmulgee from 2009 to 2012. Additionally, he served as the Project Manager for the design of the 104 acre-foot Garnett Regional Detention Pond designed for upstream development, wetland habitat and downstream flood mitigation. Computer Expertise includes, but is not limited to the following: HEC-RAS, HEC-HMS, StormCAD, and AutoCAD. Mr. Claborn has also received extensive training on stream and riparian corridor restoration.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Chris Duncan, PE, CFM, Associate Principal	a. Name and Title: Preetha Veeraraghavan, PE, Project Engineer
b. Project Assignment: Project Manager – Hydrology and Hydraulics	b. Project Assignment: Project Engineer – Hydrology and Hydraulics
c. Name of firm with which associated: Meshek & Associates, PLC, Tulsa, OK	c. Name of firm with which associated: Meshek & Associates, PLC, Tulsa, OK
d. Years experience: With this firm 17 With other firms 0	d. Years experience: With this firm 9 With other firms 0
e. Education: Degree(s)/Year/Specialization BS / Oklahoma State University / 1998 / Civil Engineering BS / Southeastern Oklahoma State University / 1994 / Mathematics & Physics	e. Education: Degree(s)/Year/Specialization BS / Kerala University / 1999 / Civil Engineering MS / University of Missouri-Rolla / 2007 / Civil Engineering
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number 2003 / Professional Engineer / Oklahoma / PE No. 21119 / Civil Engineering 2002 / Certified Floodplain Manager / Oklahoma / CFM No. OK-02-00024 Oklahoma Certificate of Authority (if any): 1487	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number 2013 / Professional Engineer / Arkansas / PE No. 15675 / Civil Engineering Oklahoma Certificate of Authority (if any): 1487
g. Other experience and qualifications relevant to the proposed project: Since joining Meshek & Associates in January 1999, Mr. Duncan has been involved in numerous master drainage plans, hydrologic and hydraulic studies for roadways and bridges, stormwater and transportation design projects. His expertise focuses on hydrologic and hydraulic computer analysis. Representative projects include: — Oklahoma Department of Transportation Bridges and Approaches for SH 66 over Sand Creek, Creek County, SH 66 over Mossey Creek, Rogers County, and SH 156 over Deadman Creek, Noble County. — Hydrologic/Hydraulic Analyses for Highways/Bridges for SH 11 (Great Salt Plains Reservoir), US 59 (Little Sallisaw Creek), US 64 (Bixby Creek/Snake Creek Tributary), US 169 (Talala Creek), SH 53 (Waurika Lake). — Master Drainage Plans for City of Sand Springs, Owasso, Oklahoma City and Ponca City. — Drainage Design for roadways for City of Tulsa, Summit Park Addition, Maintenance Zone 2065 and 2131 and Olympia Medical Park. — Oklahoma Department of Transportation Pedestrian Improvements on SH 152 & US 283 in Sayre, Beckham County, Roadway & Pedestrian Improvements on SH 33 in Langston, Logan County, Pedestrian Improvements on SH 34 in Mangum, Greer County, Pedestrian Improvements on SH 51 in Vici, Dewey County, Pedestrian Improvements on US 81 in Okarche, Kingfisher & Canadian Counties, Pedestrian Improvements on US 81 in Hennessey, Kingfisher County. Computer Expertise includes, but is not limited to the following: HEC-RAS, HEC-HMS, StormCAD, EaglePoint, WMS, RiverCadd, AutoCAD, & SurvCADD CES.	g. Other experience and qualifications relevant to the proposed project: Since joining Meshek & Associates, PLC, in October 2007, Ms. Veeraraghavan has been involved in hydrologic and hydraulic studies and stormwater project planning. Through these projects she has gained experience and become knowledgeable in hydrologic and hydraulic computer modeling. Her experience includes the use GIS tools to assist in the development of input parameters and process output data. Representative projects include: — EC 1394L: SH52 Chisholm & Mill Creek McIntosh County – H&H Analysis for two bridges. — EC 1593: Gilcrease Expressway – H&H Analysis for three bridges. — Hydraulic and Hydrology Analysis: HEC-HMS and HEC-RAS modeling and bridge sedimentation and scouring analysis for ODOT EC1337 Bridges (various creeks), Tulsa County Bridge over Crystal Creek and Skallal Creek, City of Owasso Garnett Rd Regional Detention Facility, Ford Development Corporation Floodplain Mapping (Coal Creek Tributary A - to convert Zone A floodplain to Zone AE floodplain), and City of Edmond Willowood Pond. — Master Drainage Planning: Cities of Seminole, Sapulpa and Claremore Oklahoma. Prepared hydrologic and hydraulic models, using HEC-HMS and HEC-RAS, for existing conditions. StormCAD model was developed to analyze the existing storm sewer capacities. Provided mitigation solutions and analysis for existing and potential flooding areas. Floodplain mapping. — Dam Breach Analysis for approximately 16 dams in Oklahoma including the development of the Probable Maximum Flood and unsteady HEC-RAS analysis to develop breach inundation maps. Ms. Veeraraghavan's computer expertise includes: AutoCAD, HEC-RAS, HEC-GEORAS, HEC-HMS, ArcView, Culvert Master, and StormCAD.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT .	
a. Name and Title: Kyle Cortiana, PE, Project Engineer	a. Name and Title: Kyle Miller, PE, Project Engineer
b. Project Assignment: Project Engineer – Hydrology and Hydraulics	b. Project Assignment: Project Engineer – Hydrology and Hydraulics
c. Name of firm with which associated: Meshek & Associates, PLC, Tulsa, OK	c. Name of firm with which associated: Meshek & Associates, PLC, Tulsa, OK
d. Years experience: With this firm 8 With other firms 0	d. Years experience: With this firm 2 With other firms 0
e. Education: Degree(s)/Year/Specialization BS / Oklahoma State University / 2008 / Civil Engineering	e. Education: Degree(s)/Year/Specialization Civil Engineering / Georgia Institute of Technology / 2007-2010
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number 2014 / Professional Engineer / Oklahoma / PE No. 27222 / Civil Engineering 2010 / Registered Highway Construction Materials Technician / ODOT No. 3139 2010 / Certified Water / Wastewater Works Operator / Oklahoma/ Class D No.98507 Oklahoma Certificate of Authority (if any): 1487	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number 2015 / Professional Engineer / Oklahoma / PE No. 28112 / Civil Engineering Oklahoma Certificate of Authority (if any): 1487
g. Other experience and qualifications relevant to the proposed project: Since joining Meshek, in May of 2008, Mr. Cortiana has been involved in various hydraulic and hydrologic studies and stormwater design projects. Through his experience in these projects, he has become experienced in hydrologic and hydraulic computer modeling. This includes the use of GIS tools to assist in the development of input parameters and process output data. Mr. Cortiana has completed several hydrology and hydraulic analysis projects recently. Representative projects include: — EC 1390: SH 11 Osage Co – performed roadway drainage design and impacts to Bird Creek for widening project — EC 1332B: US 270 Dewey County - worked with Jacobs to design roadway drainage structures for over eight miles of divided four lane roadway project — EC 1593: Gilcrease Expressway – Roadway drainage design — City of Tulsa – Project Engineer for the update of the Flood Insurance Study for Spunky, Midway and Adams Creeks as part of the City of Tulsa’s CTP program with FEMA. Including preparation of H&H models and development of floodplains and non-regulatory data. — City of Okmulgee – Master Drainage Plan - Development of hydrology and hydraulic models for basin wide study and developed recommended improvements to alleviate flooding. — Sand Springs Schools – Early Childhood Education Center - Drainage Study Computer Expertise includes, but is not limited to the following: HEC-RAS, HEC-HMS, StormCAD, EaglePoint, WMS, RiverCadd, AutoCAD, & SurvCADD CES.	g. Other Experience and Qualifications relevant to the proposed project: Since joining Meshek in May of 2014, Mr. Miller has been involved in various hydrologic and hydraulic studies and stormwater design projects. Through his experience in these projects, he has become experienced in hydrologic and hydraulic computer modeling. This includes the use of GIS tools to assist in the development of input parameters and process output data. Representative projects include: — Bridge Hydrology and Hydraulics, ODOT. Performed hydrologic and hydraulic design of new bridge structures across the State of Oklahoma for the ODOT. — City of Moore – Master Drainage Plan – Served as project engineer in the development of hydrologic and hydraulic models for basin wide studies, alternative analysis to mitigate flooding issues, and the preparation of the master drainage plan document. — East Tulsa Flood Insurance Study & MDP, City of Tulsa & FEMA. Served as an engineer intern for the development of City of Tulsa and FEMA Flood Insurance Study documents for Spunky Creek, Midway Creek and Salt Creek in eastern Tulsa, Oklahoma. — Joe Creek Flood Insurance Study & MDP, City of Tulsa & FEMA. Served as an engineer intern for the development of hydrology and hydraulic models for Joe Creek in Tulsa, Oklahoma. — Four-Mile Creek Flood Insurance Study & MDP, City of El Reno & FEMA. Served as an engineer intern for the development of hydrology and hydraulic models for Four-Mile Creek in El Reno, Oklahoma.

7. Work by firm or members which best illustrates current qualifications relevant to **THIS PROJECT** (list not more than 10 projects).

a. Project Name and Location	"P", "C", "JV" or "I"	b. Nature Of Firms Responsibility	c. Project Owner's Name and Address	d. Completion Date	e. Est. Cost (000's)	
					Entire Project	Firm's Portion
1. Statewide On-Call Hydrology and Hydraulic Services EC 1628 - various TOs	P	Bridge Hydraulics and Hydrology. Hydraulic analysis and report.	ODOT 200 NE 21st Street OKC,OK 73105	ongoing	UNK	\$100.00 (fee only)
2. Statewide Hydrology and Hydraulic Analysis EC 1448 – various TOs	P	Bridge Hydraulics and Hydrology. Hydraulic analysis and report.	ODOT 200 NE 21st Street OKC,OK 73105	ongoing	UNK	\$250.00 (fee only)
3. US 81 over Kingfisher Creek Kingfisher County EC 1500F	P	Design and preparation of plans, specifications and cost estimates for roadway and bridge improvements and drainage design. Hydraulic and drainage.	ODOT 200 NE 21st Street OKC,OK 73105	2015	UNK	\$383.00 (fee only)
4. SH 52 over Chisholm Creek and Mill Creek, McIntosh County EC 1394L	P	Survey, design and preparation of plans, specifications and cost estimates for roadway and bridge improvements. Hydraulic and scour analysis and report.	ODOT 200 NE 21st Street OKC,OK 73105	2015	UNK	\$500.00 (fee only)
5. SH 152 over Farmrail Railroad Washita County EC 1373	C	Hydraulic services including drainage maps, stormsewer system design data analysis and report.	ODOT 200 NE 21st Street OKC,OK 73105	2014	UNK	\$21.00 (fee only)
6. SH 109 over Kiamichi River, Choctaw County EC 1360C	C	Design and preparation of plans, specifications and cost estimates for roadway and bridge improvements. Hydraulic and scour analysis and report.	ODOT 200 NE 21st Street OKC,OK 73105	2013	UNK	\$107.00 (fee only)
7. SH 66 over Mossey Creek, Rogers County, Oklahoma EC 1337Q	P	Survey, design and preparation of plans, specifications and cost estimates for roadway and bridge improvements. Hydraulic and scour analysis and report.	ODOT 200 NE 21st Street OKC,OK 73105	2012	\$3,200.00	\$360.00 (fee only)
8. SH 66 North & South Bridge over Sand Creek, Creek County EC 1280B	C	Survey and preparation of plans, specifications and cost estimates. Provided Hydrology and Hydraulics for the North and South Bridges over Sand Creek.	ODOT 200 NE 21st Street OKC,OK 73105	2012	\$500.00	\$128.60 (fee only)
9. SH 63 LeFlore County EC 1328	C	Hydrologic and hydraulic analyses for the natural, existing, and proposed conditions for the bridges. Hydraulic and scour analysis and report.	ODOT 200 NE 21st Street OKC,OK 73105	2012	UNK	\$66.00 (fee only)
10. I-244 over Arkansas River Tulsa County EC 1294	C	Bridge Hydraulics and Hydrology. Hydraulic analysis and report. CLOMR Documentation and updated mapping.	ODOT 200 NE 21st Street OKC,OK 73105	2011	UNK	\$34.00 (fee only)

8. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project.

Since 1988, Meshek & Associates, PLC, (Meshek) has provided engineering consulting services for numerous clients across Oklahoma. Our engineering services include street and roadway design, water resource engineering, sanitary sewer and water line design, right-of-way engineering, acquisition and utility relocation services, site development, construction management, inspection services, utility engineering and field surveying. Our office is located in Tulsa, Oklahoma, with 42 professionals, including twelve registered engineers and over twenty engineering interns, technicians, inspectors and surveyors. Meshek is a Women-Owned Small Business.

Meshek has completed numerous hydrology and hydraulic analyses for a variety of bridge types and sizes as part of ODOT's efforts to replace Oklahoma's bridges (EC 1628, EC 1448 & EC 1354). Meshek completed hydrology and hydraulic analyses for SH-20 over Spavinaw Creek in Delaware County, SH-52 over Chisholm Creek and Mill Creek in McIntosh County, SH-63 in LeFlore County, US-60 in Nowata County, SH-20 over the Verdigris River in Rogers County, and the I-244 Bridge over the Arkansas River in Tulsa, as a subcontractor to Garver. We have also worked on behalf of ODOT as an expert witness for lawsuits requiring engineering expertise.

In 2015, Meshek performed the hydraulic analysis for the replacement of the US-81 bridge over Kingfisher Creek in Kingfisher County. Meshek leveraged previous analysis of the flooding in this area to develop a detailed model to examine the potential impacts of the railroad downstream. In addition to the one dimensional split flow model calibrated with existing high water marks, Meshek created a two dimensional model using the latest beta version of HEC-RAS to validate the results.

We have also performed several Master Drainage Plans in Oklahoma. Some of these studies have been used to provide more detailed hydrology to improve the hydraulic design of the proposed bridge. These studies are provided to ODOT as requested for reference on future projects.

Meshek & Associates, PLC has also taken the initiative to obtain a copy of the LiDAR data stored at the Geospatial Data Clearinghouse. This dataset is equivalent to two foot contours or better and covers over 50% of the state. In several instances, we have been able to supplement the roadway survey data with additional topography where significant impacts both upstream and downstream were included in our models. We plan to continue to use our experience and our relationships with other entities to provide the department with excellent service.

9. 61 O.S., § 64. Offenses

Any consultant or person doing architectural, surveying or engineering work for the State of Oklahoma, their agents, servants or employees, who shall receive gratuity from any contractor or builder of any public building or works, or solicit, receive or make any political contribution from or to a contractor or a builder of any public building or works, or who attempts to interfere with the competitive bidding process of the State of Oklahoma in any manner, is guilty of a misdemeanor, and upon conviction thereof shall be fined not less than One Hundred Dollars (\$100.00) nor more than Five Hundred Dollars (\$500.00), and by imprisonment in the county jail for not less than six (6) months nor more than one (1) year. Any contractor or builder of any public building or works, their agents, servants or employees, who shall offer any gratuity or political contribution to any consultant doing architectural, surveying or engineering work for the State of Oklahoma, or who attempts to interfere with the competitive bidding process of the State of Oklahoma in any manner, is guilty of a misdemeanor, and upon conviction thereof shall be fined not less than One Hundred Dollars (\$100.00) nor more than Five Hundred Dollars (\$500.00), and by imprisonment in the county jail for not less than six (6) months nor more than one (1) year.

14. The undersigned hereby certifies that the facts stated herein are true and correct.


(Consultant Signature)

JANET K. MESHEK, CFM, PE, PRINCIPAL
(Printed Name and Title)

7/22/2016
(Date)

Return this form along with your letter expressing interest to the agency from whom you received the notice of this project.



STATE OF OKLAHOMA

Consultant Services
For A Specific Project

1. Project Name/Location for which firm is filing:
EC 1813 Preliminary Engineering, Preparation of Construction Plans (Pre-qualification for County Engineering Services)

2a. Date of Announcement:
07/15/2016

2b. Agency originating announcement:
ODOT

3. Firm (or Joint-Venture) Legal Name and Address:

Enercon Services Inc.
100 E. Skelly Drive, Suite 450
Tulsa, OK 73135

3c. Name, Title, & Telephone Number of Principal Contact:

Michelle Barnett, P.E., CFM
Tulsa Operations Manager
918-665-7693

3a. Certificate of Authority Number: 1898

3d. Address of office to perform work if different from Item 3:

Same plus:

3b. FEI/Tax ID Number: [REDACTED]

Enercon Services, Inc.
Oklahoma City, OK 73116

4. Personnel by Discipline: (List each person only once, by primary function.)

70 Administrative	0 Economists	86 Mechanical Engineers	<u>9</u> GIS Specialists
3 Architects	64 Electrical Engineers	0 Mining Engineers	<u>97</u> Environmental Scientists
20 CAD/CADD Technicians	5 Estimators	0 Planners: Urban/Regional	<u>10</u> Environmental Engineers
6 Chemical Engineers	25 Geologists	0 Sanitary Engineers	<u>9</u> Archaeologists
67 Civil Engineers	5 Hydrologists	7 Soil Engineers	<u>195</u> Health & Safety Specialists
5 Construction Inspectors	0 Interior Designers	23 Specification Writers	_____
15 Draftsmen	0 Landscape Architects	23 Structural Engineers	<u>863</u> Other
7 Ecologists	6 Land Surveyors	0 Surveyors	<u>1620</u> Total Personnel

5. If submittal is by a JOINT-VENTURE, list participating firms and outline specific areas of responsibility (including administrative, technical and financial) for each firm: All firms and the joint venture MUST be registered with Construction and Properties, Department of Central Services, 2401 N. Lincoln Blvd., Suite 106, P. O. Box 53448, Oklahoma City, OK 73152-3448.

Submittal is not a joint venture. Enercon is registered with Construction and Properties.

5a. Has this Joint-Venture previously worked together? Yes No If YES, how many times? N/A

6 Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT.	
a. Name and Title: Michelle Barnett – Operations Manager	a. Name and Title: Mary A. McBryar - NEPA Lead
b. Project Assignment: Program Manager	b. Project Assignment: Project Manager
c. Name of Firm with which associated: Enercon Services, Inc.	c. Name of firm with which associated: Enercon Services, Inc.
d. Years experience: With this firm 6 With other firms 17	d. Years experience: With this firm 2 With other firms 20
e. Education: Degree(s)/Year/Specialization M.S. / 1993 / Civil Engineering B.S. / 1991 / Civil Engineering	e. Education: Degree(s)/Year/Specialization B.S. / 1994 / Wildlife & Fisheries Science B.S. / 1994 / Wildlife & Fisheries Science; Minors: Zoology & Forestry
f. Active Registration: State/Year first registered/Discipline/License # OK / 1998 / Professional Engineer / Civil Engineering/ 19083 OSHA 40 Hour HAZWOPER - Current	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number
Oklahoma Certificate of Authority Number (if any) N/A	Oklahoma Certificate of Authority (if any) 1898
g. Other experience and qualifications relevant to the proposed project: Michelle is a Senior Project Manager overseeing wetland scientists, archaeologists, and environmental scientists. In this role, Ms. Barnett manages projects and is responsible for work quality, staff allocation, safety, cost control, and schedule compliance. She has provided NEPA documentation and project management for multiple FHWA NEPA and non-federal environmental reconnaissance projects in Oklahoma for counties, their engineers, and tribes. She has served as the Project Manager for ENERCON's Environmental Studies under EC 1661, 1450, 1401, 1355, and 1299 as well as PS&E support to multiple engineering firm subcontracts. These encompass a range of state highway roadway and bridge improvement projects similar to the ones proposed for this contract. Past and current projects of note include: - Non-federal environmental reconnaissance of bridge replacement on 14-mile Creek in Cherokee County including protected species and Section 404 issues. -Non-federal environmental reconnaissance for biological resources for roadway reconstruction at Sallisaw Creek WMA -Archival CR documentation of a WPA corridor in Atoka County, OK; -FHWA NEPA clearance of Section 106 bridges in Latimer and Bryan Counties; In addition to leading NEPA clearance projects coordinated with the engineering design, Michelle has extensive experience in development of presentations for large and small-scale public presentations. As project manager for similar projects, she has been responsible for documentation of public involvement in accordance with FHWA guidelines. Michelle has provided public and stakeholder involvement for 4(f) projects including SH-99 in Osage County and SH-10 which involved Camp Gruber, Greenleaf State Park, the ODWC, and USACE in Muskogee County resulting in deminimis impact findings.	g. Other experience and qualifications relevant to the proposed project: Mary has 22 years of environmental experience on a wide range of projects including experience with evaluation, application, and management of federal and state permits related to development proposals and projects on sites ranging from vacant forest lands to pre-disturbed areas. Mary has produced and/or reviewed numerous CE, EA, FONSI, and EIS documents , including any associated technical reports, in accordance with NEPA and other regulatory requirements to ensure compliance and agreement within and between the disciplines analyzed. Recent efforts include the preparation of CE package documents for Oklahoma state highway, roadway, and bridge improvement projects. She has conducted presence/absence surveys and relocations for the federally endangered American burying beetle, <i>Nicrophorus americanus</i> . She has also conducted site evaluations for suitable habitat and ESA Section 7 consultations. She also provides project management for both field and desktop activities in the preparation of CATEX, EA, and EIS documentation. She provided project management for multiple CE, EA and EIS projects in Alabama, Georgia, Kentucky, Mississippi, North Carolina, Tennessee and Virginia during her tenure with TVA. Mary has demonstrated expertise in NEPA, hazardous waste, fuel storage and handling, construction within waterways, biological studies, IBI & stream health surveys, wetlands identification, water quality, and cultural resource preservation.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT.	
a. Name and Title: Jefferson Laughlin, P.G. – Geosciences & Remediation National Lead	a. Name and Title: Bethany Scott – Environmental Scientist
b. Project Assignment: Senior Scientist	b. Project Assignment: Project Scientist
c. Name of firm with which associated: Enercon Services, Inc.	c. Name of firm with which associated: Enercon Services, Inc.
d. Years experience: With this firm 17 With other firms 13	d. Years experience: With this firm 2 With other firms 2
e. Education: Degree(s)/Year/Specialization M.S. / 1985 / Geology B.A. / 1981 / Chemistry	e. Education: Degree(s)/Year/Specialization B.S. / 2010 / Environmental Science M.S. / 2012 / Plant and Soil Sciences
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number MO / 1986 / Registered Geologist / 0713 TX / 2003 / Professional Geologist / 6085 National / 1994 / Certified Professional Geologist/ 9223 - OK / 1985 / OCC Licensed Remediation Consultant / 0384 OK / 2002 / OWRB Petroleum Driller / OP#1310 OSHA 40-hour HAZWOPER – Current Oklahoma Certificate of Authority (if any) N/A	f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Certified Floodplain Manager, (CFM) OK-13-00021 Oklahoma Certificate of Authority (if any) N/A
g. Other experience and qualifications relevant to the proposed project: Jeff has performed and managed numerous Phase I and II Environmental Site Assessments , remediation projects, and general environmental consulting services. He has performed numerous Risk-Based Corrective Action assessments for the State of Oklahoma. He has obtained closure on many leaking underground storage tank (LUST) sites by performing initial site assessments, site classifications, and initial response actions followed by toxicity and exposure assessments to determine Tier 1 Risk-Based Screening Levels (RBSL) and, as needed, Tier 2 Site-Specific Target Levels (SSTL). Jeff has conducted a variety of investigations for the oil and gas industry including hydrocarbon investigations at active gas plants, mercury investigation near gas meter houses, and brine contamination assessments surrounding reserve pits. He served as lead hydrologist for the site investigation and characterization of a proposed nuclear plant. He has managed projects within the ODEQ's Voluntary Cleanup Program . He is a specialist in Risk-Based Corrective Action (RBCA), Saltwater Impact Assessment, Groundwater Quality and Monitoring, Free Product Removal, Remedial Investigation/Feasibility Studies, and Conceptual Remediation Design. Previous experience on ODOT projects include the I-235 Centennial Emergency Investigation, the Barnsdall PSI, the Blanchard PSI, Seiling PSI, SH-183 PSI, Bixby PSI for SH-64, Glenpool PSI for SH-75, I-44 Reconstruction PSI, Wekiwa Road PSI, SH-5 Frederick PSI, Interstate Highway (I-40) Reconstruction Work Corridor Parcels 126 and 129 (PCB and Other Contaminant Remediation and Oversight).	g. Other experience and qualifications relevant to the proposed project: Bethany has performed Initial Site Assessments as well as Phase I Environmental Site Assessments in compliance with ASTM Practice E1527-13 and AAI, Final Rule 40 CFR Part 312 for a diverse clientele, including ODOT and multiple engineering firms. In addition, Ms. Scott has performed environmental site inspections in accordance with National Environmental Policy Act (NEPA) guidelines, documented detailed findings of environmental concern. ISAs she has completed for ODOT include US-64 roadway expansion in Pawnee County, two bridge replacement projects in Beaver County, and two bridge replacement projects in Osage County. As the lead on Oklahoma Department of Transportation (ODOT) Recon Reports , Ms. Scott conducted field GPS surveys, GIS mapping, and compiled final reports. While working on Federal Emergency Management Agency (FEMA) watershed scale flood risk analysis projects, she was responsible for planning, research, and community involvement. Bethany worked to foster collaboration between FEMA, Oklahoma Water Resource Board (OWRB), county, and local community officials.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT.	
a. Name and Title: David X Williams, Ph.D. – Senior Biologist	a. Name and Title: Rebecca Carroll – Project Biologist
b. Project Assignment: Senior Scientist	b. Project Assignment: Project Scientist
c. Name of Firm with which associated: Enercon Services, Inc.	c. Name of firm with which associated: Enercon Services, Inc.
d. Years experience: With this firm 9 With other firms 20	d. Years experience: With this firm 10 With other firms 1
e. Education: Degree(s)/Year/Specialization Ph.D./2003/ Biology M.S./1993/ Biology B.A./1987/ History, Minor: Anthropology	e. Education: Degree(s)/Year/Specialization B.S. / 2005 / Zoology – Biomedical Sciences
f. Active Registration: State/Year first registered/Discipline/License # Arkansas Native Plant Society, Delzie DeMaree Fellowship 2002. Sigma Xi, Grant in Aid of Research 2001. Arkansas Native Plant Society, Dwight Moore Award for Botany 2001. Oklahoma Certificate of Authority Number (if any) N/A	f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma Certificate of Authority (if any) N/A
g. Other experience and qualifications relevant to the proposed project: Dr. Williams is an experienced biologist and environmental professional specializing in Section 404, Threatened and Endangered Species, ecosystem restoration, and natural resources planning. Dr. Williams has comprehensive knowledge of Federal and State regulatory requirements including NEPA (EIS, EA, CE, and similar documents), CWA (extensive Section 404 experience- wetland delineations, wetland functional assessments, stream assessments, permits, mitigation planning and implementation, mitigation bank development), ESA (Section 7 consultation, BA, HCP, trap and relocation, monitoring). Additional related skills include: Experimental design, statistics, plant taxonomy, GIS, wetland, forest, and grassland ecology, ecological restoration, forestry practice, nuisance animal control, public relations, preparation of technical reports and maps, public speaking, personnel management, and inter-agency coordination. Dr. Williams has extensive experience with commercial development, transportation, and oil and gas projects. His project experience includes Wetlands delineation, permitting, and compensatory mitigation plans; Mitigation Bank planning and design; Preparation of NEPA and similar documents (EA, EIS, BA); Data analysis and research design for various water quality projects; Wetland planning and NEPA services for Oklahoma Department of Transportation; and Endangered species surveys and monitoring. Dr. Williams is currently performing Wetlands Delineation and Mitigation Planning for several highway projects and has worked on a potential wetlands bank site for ODOT under a statewide contract.	g. Other experience and qualifications relevant to the proposed project: Ms. Carroll's experience includes the following: waters and wetland delineations, vegetation classification and mapping, plant identification, electroshock fishing, avian surveys, small mammal trapping, terrestrial surveys, benthic invertebrate sampling, water chemistry data collection, gill netting, and habitat evaluation for threatened and endangered species. Ms. Carroll has conducted spring and summer avian surveys in Idaho and Oklahoma, and performed presence/absence surveys and habitat evaluations for the Lesser Prairie Chicken. Ms. Carroll has conducted biological evaluations in support of roadway and bridge improvement project, oil and gas pipeline, and well pad drilling sites in Oklahoma, Nevada, Arkansas, Kansas, Idaho, and Texas. She has conducted presence/absence surveys and relocations for the federally endangered American burying beetle, <i>Nicrophorus americanus</i> . She has also conducted site evaluations for suitable habitat and ESA Section 7 consultations. Ms. Carroll is currently assigned as a Biologist/Environmental Scientist for Biological Evaluations, Wetlands Delineations and Mitigation Plans , and preparation of Categorical Exclusion letters performed for ODOT under regional and statewide contracts.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT.	
a. Name and Title: Erica McLamb – Environmental Scientist	a. Name and Title: Andrew Ward – Project Manager
b. Project Assignment: Project Scientist	b. Project Assignment: Project Scientist
c. Name of firm with which associated: Enercon Services, Inc.	c. Name of firm with which associated: Enercon Services, Inc.
d. Years experience: With this firm 4 With other firms 8	d. Years experience: With this firm 7 With other firms 2
e. Education: Degree(s)/Year/Specialization B.S. / 1998 / Marine Biology	e. Education: Degree(s)/Year/Specialization B.S. / 2005 / Biology/Chemistry
f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Oklahoma Certificate of Authority (if any) N/A	f. Active Registration: State/Year first registered/Discipline/Oklahoma License Number Certified Floodplain Manager, (CFM) OK-13-00021 Registered Professional Environmental Specialist/Sanitarian Certified Soil Profiler Oklahoma Certificate of Authority (if any)
g. Other experience and qualifications relevant to the proposed project: Erica's experience includes the following: stream and wetland delineations , natural community classification and mapping, plant identification, threatened and endangered plant and bird surveys, and habitat evaluation for threatened and endangered species . Erica has conducted presence/absence surveys and habitat evaluations for the Michaux's sumac, Schweintz's sunflower, smooth coneflower, harperella, American chaffseed, rough-leaved loosestrife, red-cockaded woodpecker, and bald eagle for the North Carolina Department of Transportation (NCDOT). Ms. McLamb has also assisted with freshwater mussel surveys and benthic invertebrate sampling. Erica has written the biological and jurisdictional resource sections for environmental planning documents (CE and EA) for NCDOT. She provides QA/QC review for ENERCON biological and wetland reports to ODOT. While at NCDOT Ms. McLamb applied for and received Nationwide and Individual CWA Section 404 Permits from USACE as well as the corresponding Section 401 permits from NCDWQ.	g. Other experience and qualifications relevant to the proposed project: Andrew's experience includes performing environmental site screenings and preparing detailed reports for construction projects including commercial development projects, State Highway construction projects, and oilfield construction projects. Andrew is trained in wetland delineation techniques and USACE regulations and has performed numerous wetland delineations for various projects and clients. He has participated in threatened and endangered (T&E) species surveys including field work and submitting reports and documentation to USFWS. He is permitted to handle and conduct surveys for the American burying beetle through the USFWS. Mr. Ward provides ABB surveys and documentation throughout the state for private and public sector clients. Mr. Ward is also WAFWA certified for the Lesser Prairie Chicken and experienced in field identification of LPC habitat. Andrew's previous role as an Environmental Programs Specialist with the Oklahoma Department of Environmental Quality (DEQ) has provided him with experience in many DEQ programs including air quality, water quality (public & private water supply), municipal & industrial wastewater, construction & industrial stormwater, and land protection/solid waste. As such, he is uniquely qualified to identify environmental issues in the field. Mr. Ward has working knowledge of Federal and State regulatory requirements including experience relating to National Environmental Policy Act (NEPA), Clean Water Act (CWA), and Endangered Species Act (ESA). He also has experience in GIS analysis/mapping, technical writing, and public speaking.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT.	
a. Name and Title: Spencer Aycock – Senior GIS Specialist	a. Name and Title: Alex Couch – GIS and Noise Modeling
b. Project Assignment: Sr. GIS Specialist	b. Project Assignment: GIS Specialist
c. Name of Firm with which associated: Enercon Services, Inc.	c. Name of Firm with which associated: Enercon Services, Inc.
d. Years experience: With this firm 2 With other firms 15	d. Years experience: With this firm 6 With other firms -
e. Education: Degree(s)/Year/Specialization BS 2001 Environmental Science GIS Certificate 2008	e. Education: Degree(s)/Year/Specialization B.A., Geography, University of Oklahoma, Norman, OK, 2010
f. Active Registration: State/Year first registered/Discipline/License # Geographic Information Systems Professional (GISP) 2012 Oklahoma Certificate of Authority Number (if any) N/A	f. Active Registration: State/Year first registered/Discipline/License # Oklahoma Certificate of Authority Number (if any) N/A
g. Other experience and qualifications relevant to the proposed project: Spencer closely with resource biological and cultural resource specialists to define and map habitat, wetlands, critical waters, and areas of interest. He is skilled in the use of the following software packages to prepare communications materials and analyze data: ESRI ArcServer, Spatial Analyst, 3D Analyst, ModelBuilder, ArcMap, ArcPad, AutoCAD and Microstation. He has significant experience working with biological and photogrammetric data through projects for the U.S. Fish and Wildlife Service and the U.S. Forest Service. Spencer has several biological, wetlands, resource reports and mapping to his credit including: <ul style="list-style-type: none"> • ODOT bridge and roadway projects • Fort Sill GIS Working Group Range Mapping • USFWS Wichita Mountains Mapping program • Forest Service Conservation Planning • GIS-enabled wetland mitigation monitoring • 404 permit mapping and analysis Spencer is not only a GISP professional but also an accomplished field biologist , which allows him to expedite map development and integrate GIS analysis with field activities.	g. Other experience and qualifications relevant to the proposed project: Alex develops GIS mapping and analysis for natural and cultural resources as well as provides modelling expertise in TNM 2.5 noise studies . His recent noise modeling experience for ODOT includes: <ul style="list-style-type: none"> • SH-20 Tulsa County Capacity Expansion and Bridge Replacements. This project involved a capacity expansion to SH-20 between US-75 and Collinsville, OK. Adding to the project complexity were the lack of preliminary design for analysis prior to the public meeting, incorporation of public meeting requests including additional impact analysis using varying speed limits, the presence of multiple existing speed limits along the roadway leading into Collinsville, and the presence of multiple receivers including a cemetery, residential subdivisions, and school. • US-64 Pawnee County Roadway Realignment. This project involved a roadway realignment offset without capacity expansion. The realignment featured vertical deviation from the original roadway elevations and potential structure relocations. The results of the survey indicated that no receiver would experience a significant increase in noise levels post-construction.

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT.	
a. Name and Title: Jeff Jenkins – National Industrial Hygiene Lead	a. Name and Title: Sue Thompson - Environmental Scientist
b. Project Assignment: Senior Scientist	b. Project Assignment: Project Scientist
c. Name of Firm with which associated: Enercon Services, Inc.	c. Name of firm with which associated: Enercon Services, Inc.
d. Years experience: With this firm 12 With other firms 20	d. Years experience: With this firm 2 With other firms 17
e. Education: Degree(s)/Year/Specialization B.S./ 1980 / Chemistry	e. Education: Degree(s)/Year/Specialization M.S. /2012/ Industrial Hygiene and Environmental Health Sciences B.S./ 1994 /Wildlife Management & Environmental Law Enforcement
f. Active Registration: State/Year first registered/Discipline/License # Certified Industrial Hygienist, #4677C, 1990 Certified Safety Professional, #23521, 2012 Asbestos Licensed Inspector, Management Planner, and/or Project Designer Lead-Based Paint Risk Assessor –Oklahoma FHWA TNM 2.5 Trained Oklahoma Certificate of Authority Number (if any) N/A	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number 2012 AHERA Asbestos Inspector License – Oklahoma NIOSH 582 – Sampling and Evaluating Airborne Asbestos FHWA TNM 2.5 Trained Oklahoma Certificate of Authority (if any) NA
g. Other experience and qualifications relevant to the proposed project: Mr. Jenkins has more than 30 years' experience in conducting industrial hygiene and noise investigations and audits for employee exposure, community noise, legal issues, workers comp, and engineering reduction measures. He currently serves as ENERCON National Lead for Industrial Hygiene overseeing practitioners in Oklahoma as well as throughout the U.S. Jeff has completed the FHWA Noise Modeling course and has provided support to noise modeling projects for ODOT throughout the last 10 years including work on I-35 in Oklahoma City and numerous production facilities in Oklahoma and Texas. Jeff provides Expert Witness testimony in Noise , IAQ, Mold, Chemical Safety, Waste Disposal, Forensic, and Community Air Quality litigation throughout the U.S. and serves as a quality assurance expert in matters of noise and indoor air. With in-house capacity and on-hand field and personnel measurement equipment, Jeff and his team provide rapid response for our on-call clients. With the support of our GIS department, Mr. Jenkins provides monitoring of existing noise levels, modeling of projected noise based upon facility development or expansion, construction monitoring, and mitigation recommendations. Mr. Jenkins also provides blast analysis for private and public sector clients including storage and production facilities.	g. Other experience and qualifications relevant to the proposed project: Ms. Thompson is an industrial hygienist with experience using the FHWA TNM 2.5 noise model as well as use of field and personnel noise modeling equipment. Ms. Thompson provides hands-on noise assessment and monitoring. Her experience includes the following: <ul style="list-style-type: none">• Transportation noise studies for US-64 in Pawnee County Roadway Realignment and the SH-20 highway capacity expansion in Tulsa County.• Community noise assessments at pipe yard in residential and rural areas.• Conducts noise assessment for compressor and gas production facilities throughout Oklahoma and Texas• Personnel monitoring for noise exposure in construction and industrial programs• Conducts asbestos inspections, area monitoring, personal monitoring and clearance sampling for federal, state, local and private entities.• Presents annual and monthly safety training on construction and operational issues for division employees

6. Brief resume of key persons, specialists, and individual consultants employed by sub-consultants anticipated for THIS PROJECT.	
a. Name and Title: Michael Margolis, P.I, RPA, Senior Archaeologist	a. Name and Title: Gary Edington, P.I, Archaeology
b. Project Assignment: Project Scientist	b. Project Assignment: Project Scientist
c. Name of Firm with which associated: Enercon Services, Inc.	c. Name of firm with which associated: Enercon Services, Inc.
d. Years experience: With this firm 2 With other firms 13	d. Years experience: With this firm 1 With other firms 23
e. Education: Degree(s)/Year/Specialization M.A. / 2007 / Anthropology B.A./ 1999 / Anthropology	e. Education: Degree(s)/Year/Specialization M.A. / 1997 / Anthropology B.A. / 1993 / Ethics and Religion
f. Active Registration: State/Year first registered/Discipline/License # Oklahoma Certificate of Authority Number (if any) N/A	f. Active Registration: State/Year first registered/Discipline/ Oklahoma License Number Oklahoma Certificate of Authority (if any) NA
g. Other experience and qualifications relevant to the proposed project: Mike has over 14 years of experience managing and conducting all phases of prehistoric and historic archaeological projects in the field, laboratory, and office. He is experienced making National Register of Historic Places (NRHP) evaluations, contributing to National Environmental Policy Act (NEPA) documents, and Native American Graves Protection and Repatriation Act (NAGPRA) compliance. He has conducted and supervised archaeology data recovery, testing, monitoring, and survey projects. Mr. Margolis is experienced in flaked stone, ground stone, and faunal artifact analysis and his areas of Interest and Expertise include Section 106 , NEPA, Behavioral Archaeology, Osteology, Formation and Mortuary Processes. He has prepared technical reports for many clients and agencies, including: <ul style="list-style-type: none"> • US-64 Roadway Realignment Survey and Reporting in Pawnee County • Bridge over Dog Thresher Creek Survey and Reporting, Osage County • Historic Caney River Bridge replacement Survey and Reporting, Osage County • Mud Creek Bridge Replacement Survey and Reporting, Pawnee County • Archaeological Data Recovery, Coal County, for Oklahoma DOT • Survey of Rail Corridor, Fort Worth Transportation Authority, Texas • Intensive Survey and NRHP Eligibility, Lampasas County, Texas • Archaeological Monitoring, Lampasas County, Texas • Class III Cultural Resources Archaeological Inventory Near Portal, AZ for USFWS • Archaeological Monitoring of I-19 Corridor, Pima County, Arizona, for ADOT • Marsh Station Interchange in Tucson, AZ for ADOT As a RPA, Mike is qualified to work on projects that cross the Oklahoma-Texas border. As a former practitioner in Texas, Mike is familiar with the CRM requirements of TXDOT and joint DOT projects.	g. Other experience and qualifications relevant to the proposed project: Gary's professional experience includes research and field work in all 77 counties of Oklahoma as field director. He has served as Principal and Co-Principal Investigator on research projects within the USDA Forest Service Kiamichi Ranger District, Oklahoma and Arkansas; the USDA Forest Service Cibola National Forest, New Mexico, Oklahoma and Texas. He has also conducted numerous field surveys for cultural resources for ODOT roadway and bridge improvement projects. Gary has been listed on Federal permits as field director with the Bureau of Land Management in Oklahoma and Texas; the Bureau of Land Management in the Trans-Pecos region of west Texas and eastern New Mexico; the USDA Forest Service Ouachita National Forest, Arkansas and Oklahoma; the Bureau of Reclamation in Oklahoma and Texas; the Bureau of Indian Affairs, Anadarko and Muskogee and the US Army Corps of Engineers in Oklahoma, Arkansas, Kansas and Texas. Gary has authored or co-authored over 200 CFR 800, Section 106 compliance technical reports up to several hundred pages in length and researched, investigated, and evaluated over three thousand cultural resources in his career. Gary was formerly a Researcher I for the OAS under a FTE grant for ODOT conducting file reviews of recorded historic and prehistoric archaeological resources within ODOT right of ways in all 77 counties of Oklahoma.

7. Work by firm or members which best illustrates current qualifications relevant to THIS PROJECT (list not more than 10 projects).

a. Project Name and Location	"P", "C", "JV" or "I"	b. Nature Of Firms Responsibility	c. Project Owner's Name and Address	d. Completion Date	e. Est. Cost (000's)	
					Entire Project	Firm's Portion
1. 14-Mile Creek Environmental Reconnaissance Cherokee County	C	Performed biological, wetlands, hazardous waste, and cultural resource reviews for low water crossing replacement with bridge.	Guy Engineering Tulsa, OK	2015	\$Unknown	\$7
2. Dwight Mission Road Reconstruction to Sallisaw Creek WMA, Sallisaw, OK	C	Performed biological, wetlands, and cultural resource reviews for reconstruction of 2-lane asphalt county road	Able Consulting Owasso, OK	2015	Unknown	\$8
3. Riverside Drive TIGER Grant City of Tulsa	C	Performed biological resource studies for NEPA compliance with TIGER Grant requirements for replacement of Riverside Drive.	Able Consulting Owasso, OK	2014	Unknown	\$12
4. SH-62 over Cane Creek Muskogee County	C	Performed biological, wetlands, hazardous waste, and cultural resource studies for bridge superstructure rehabilitation.	Schemmer Associates Tulsa, Oklahoma	2014	Unknown	\$18
5. US-64 Roadway Widening and Bridge Replacements, Pawnee County	C	Performing noise, biological, wetlands, hazardous waste, cultural resource studies and public involvement for bridge replacement.	PEC Tulsa, OK	Ongoing	Unknown	\$58
6. ID Wetland mitigation options and prepare Sec 404 App/ Mitigation Plan for I-44/I-235 Interchange Oklahoma County	C	Prepare wetland mitigation plan and Section 404 Permit Application	Oklahoma Department of Transportation Oklahoma City, OK 73105	2012	\$50	\$50
7. ODOT I-40 Reconstruction - Parcel 129 PCB and Other Contaminant Investigations and Remediation	C	ENERCON initiated a subsurface investigation of Parcel 129 to verify the presence of contamination and in preparation of highway construction	Oklahoma Department of Transportation Oklahoma City, OK 73105	2009	\$92.4	\$66
8. Nowata Mitigation Bank and Adjacent Land Wetland Assessment Nowata County	C	Site assessment of Verdigris Wetland Mitigation Bank to determine the areas for preservation, restoration, establishment, and enhancement.	Oklahoma Department of Transportation Oklahoma City, OK 73105	2010	\$57	\$57
9. SH-99 over Birch Creek Bridge Replacment in Hulah WMA, Osage County	C	Performed biological, hazardous waste, and cultural resource studies as well as Section 4(f) de minimis for USACE/ODWC lands and Section 404 I	Professional Engineering Consultants Tulsa, Oklahoma	2015	Unknown	\$38
10. EC 529, 1155, 1217, 1299, 1360, 1394, 1301, 1458, 1466, 1505, 1551, 1619, 1622, 1640, 1576 Biological and Wetland Studies	C	ENERCON contracted to Able Consulting to perform on-call biological resources and noise studies.	Able Consulting Owasso, Oklahoma	2015	Unknown	\$150

8. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project.

ENERCON operates its NEPA clearance services theTulsa and Oklahoma City offices. Their staff conduct resource studies throughout Oklahoma including biological, cultural, noise and initial site assessment surveys as well as NRCS, Section 4(f), and Section 6(f) coordination.

9. 61 O.S., § 64. Offenses

Any consultant or person doing architectural, surveying or engineering work for the State of Oklahoma, their agents, servants or employees, who shall receive gratuity from any contractor or builder of any public building or works, or solicit, receive or make any political contribution from or to a contractor or a builder of any public building or works, or who attempts to interfere with the competitive bidding process of the State of Oklahoma in any manner, is guilty of a misdemeanor, and upon conviction thereof shall be fined not less than One Hundred Dollars (\$100.00) nor more that Five Hundred Dollars (\$500.00), and by imprisonment in the county jail for not less than six (6) months nor more than one (1) year. Any contractor or builder of any public building or works, their agents, servants or employees, who shall offer any gratuity or political contribution to any consultant doing architectural, surveying or engineering work for the State of Oklahoma, or who attempts to interfere with the competitive bidding process of the State of Oklahoma in any manner, is guilty of a misdemeanor, and upon conviction thereof shall be fined not less than One Hundred Dollars (\$100.00) nor more than Five Hundred Dollars (\$500.00), and by imprisonment in the county jail for not less than six (6) months nor more than one (1) year.

10. The foregoing is a statement of facts. My signature below indicates I have read the above excerpt from Title 61 of the Oklahoma Statutes.

Date:

Return this form along with your letter expressing interest to the agency from whom you received the notice of this project.

Signature: _____



Digitally signed by Michelle Barnett
DN: cn=Michelle Barnett, o=Enercon Services, Inc., ou=Tulsa
Operations Manager, email=mbarnett@enercon.com, c=US
Date: 2016.07.25 14:40:38 -05'00'

Typed Name and Title:

“Their attention to detail and willingness to hold contractors accountable has saved our City thousands of dollars.”

- Tim Rooney, City Manager, City of Mustang

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