# DOTD FORM: 24-102

(Revised January 1, 2023)

**PROPOSAL TO PROVIDE CONSULTANT SERVICES**

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

| | |
|---|---|
| **1.** Contract Name as shown in the advertisement | IDIQ CONTRACTS FOR VALUE ENGINEERING SERVICES STATEWIDE |
| **2.** Contract Number(s) as shown in the advertisement | 4400027920 AND 4400027921 |
| **3.** State Project Number(s), if shown in the advertisement | N/A |
| **4.** Prime consultant name **(name must match as registered with the Louisiana Secretary of State where such registration is required by law)** | **TriCoeur Services, L.L.C.** |
| **5.** Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law) | EF#: 4660<br>VF#: 0653 |
| **6.** Prime consultant mailing address | 9270 Siegen Lane, Suite 501, Baton Rouge, LA 70810 |
| **7.** Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria) | 9270 Siegen Lane, Suite 501, Baton Rouge, LA 70810 |
| **8.** Name, title, phone number, and email address of prime consultant's contract point of contact | Barry P. Gahagan, PE, PLS; Projects Principal<br>Phone: 225-266-7507<br>E-Mail: BGahagan@TriCoeur.com |
| **9.** Name, title, phone number, and email address of the official with signing authority for this proposal | Aileen Foley, Managing Principal<br>Phone:225-228-2681<br>Email: AFoley@TriCoeur.com |

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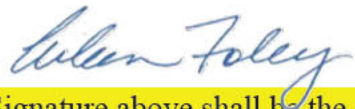
|---|---|---|
| **10.** This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response. | |  <br>Signature above shall be the same person listed in Section 9:<br><br>Date:<br>10/10/2023 |
| **11.** If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage. | Firm(s):<br>Not applicable | Firm(s)' %: |

**12. Past Performance Evaluation Discipline Table:**

As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract.

The **only** past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

| Past Performance Evaluation Discipline(s) | % of Overall Contract | Prime **TriCoeur Services, LLC** | Firm B **Digital Engineering & Imaging, Inc.** | Firm C **Vectura, Inc.** | Each Discipline must total to 100% |
|---|---|---|---|---|---|
| Other - Value Engineering (Facilitation & PM) | 30% | 100% | | | **100%** |
| Road | 28% | 20% | 80% | | **100%** |
| Bridge | 28% | 80% | 20% | | **100%** |
| Traffic | 6% | | 20% | 80% | **100%** |
| Geotech | 2% | 100% | | | **100%** |
| Environmental | 2% | 50% | 50% | | **100%** |
| Right-of-way | 2% | 30% | 70% | | **100%** |
| ITS | 2% | | 20% | 80% | **100%** |
| Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant. | | | | | |
| Percent of Contract | **100%** | **62%** | 32% | **6%** | |

**13. Firm Size:**

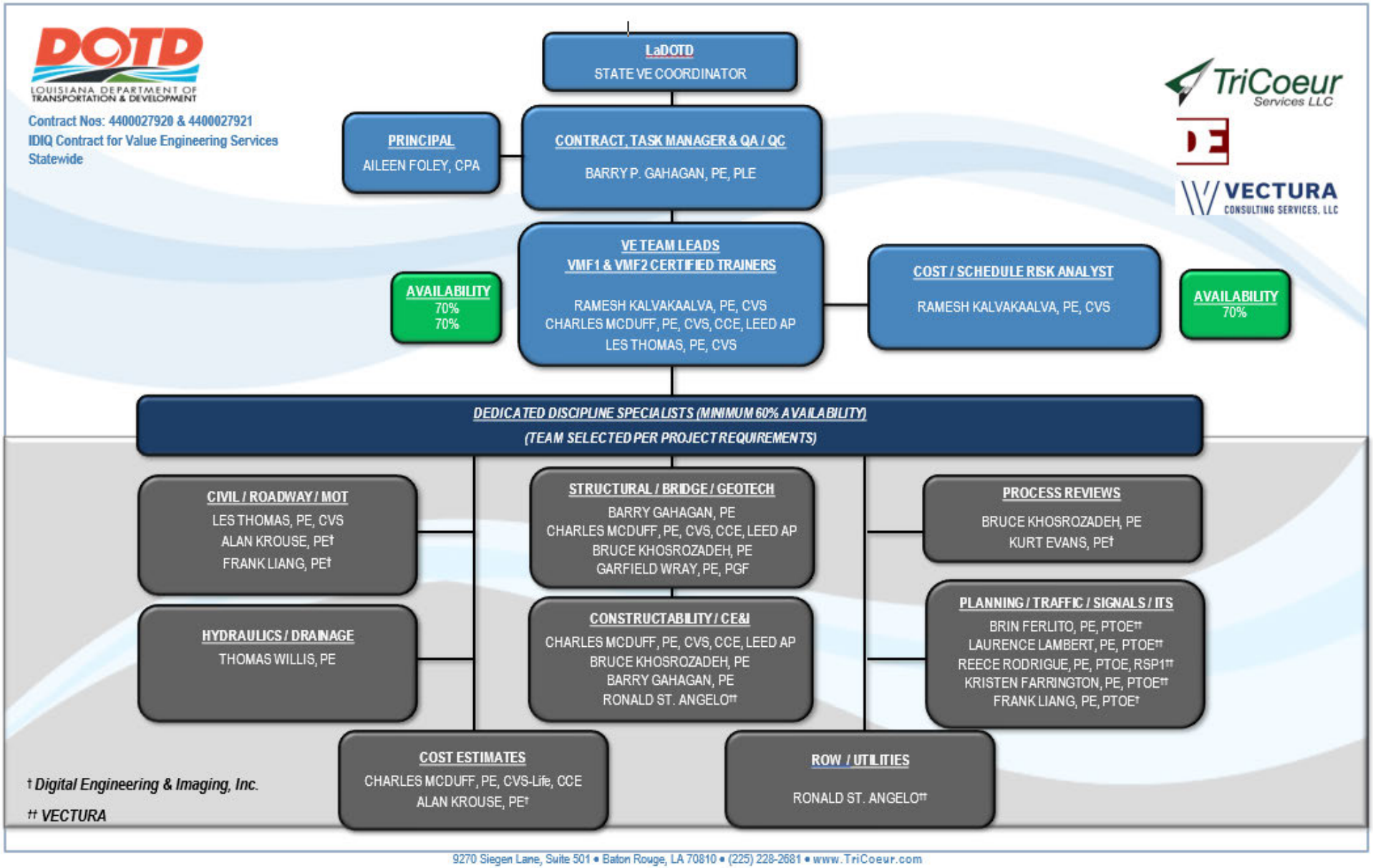
For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (please specify)" and include the classification title inside the parentheses.

The DOTD Job Classification(s) to be used can be found at the following link:
http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

| Firm name | DOTD Job Classification | Number of personnel committed to this contract | Total number of personnel available in this DOTD Job Classification (if needed) |
|---|---|---|---|
| **TriCoeur Services, L.L.C.** | Administrative | 1 | 2 |
| **TriCoeur Services, L.L.C.** | Principal | 1 | 2 |
| **TriCoeur Services, L.L.C.** | (VE Team Lead) | 4 | 4 |
| **TriCoeur Services, L.L.C.** | Engineer | 2 | 4 |
| **TriCoeur Services, L.L.C.** | Engineer- Other | 1 | 3 |
| **Digital Engineering & Imaging, Inc.** | Principal | 2 | 7 |
| **Digital Engineering & Imaging, Inc.** | Supervisor – Engineer | 1 | 5 |
| **Digital Engineering & Imaging, Inc** | Engineer | 0 | 4 |
| **Digital Engineering & Imaging, Inc.** | Engineer Intern | 0 | 3 |
| **Digital Engineering & Imaging, Inc.** | CADD – Technician | 0 | 3 |
| **Vectura Consulting Services, LLC** | Supervisor | 2 | 2 |
| **Vectura Consulting Services, LLC** | Engineer | 4 | 4 |
| **Vectura Consulting Services, LLC** | Engineer Intern | 1 | 1 |
| **Vectura Consulting Services, LLC** | Inspectors | 2 | 2 |

**14. <u>Organizational Chart</u>**:

Provide an organizational chart showing ALL **relevant** prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual's role does not necessarily have to match their DOTD job classification identified in Section 13. **If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name. Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20.** It is acceptable to use an 11x17 format for Section 14.




Prime consultant name**: TriCoeur Services, L.L.C.**

**15. Minimum Personnel Requirements:**

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.

| MPR No. Do not insert wording from ad | Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement) | Firm employed by | Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil) | State of license | License / certification expiration date |
|---|---|---|---|---|---|
| 1 | Barry P Gahagan, PE | TriCoeur Services, LLC | PE 21586- Civil | LA | 3/31/2024 |
| 2 | Barry P Gahagan, PE | TriCoeur Services, LLC | PE 21586- Civil | LA | 3/31/2024 |
| | Ramesh Kalvakaalva, PE, CVS | TriCoeur Services, LLC | PE 28219- Civil | LA | 3/31/2024 |
| 3 | Barry P Gahagan, PE | TriCoeur Services, LLC | PE 21586- Civil | LA | 3/31/2024 |
| | Thomas M Willis, PE | TriCoeur Services, LLC | PE 24205- Civil and Environmental | LA | 3/31/2024 |
| | Bruce Khosrozadeh, PE | TriCoeur Services, LLC | PE 34026- Civil | LA | 9/30/2025 |
| | Kurt Evans, PE | DEII | PE 20821 | LA | 9/30/2024 |
| | Frank Laing, PE | DEII | PE 28549 | LA | 3/31/2024 |
| | Alan Krouse, PE | DEII | PE 19391 | LA | 9/30/2025 |
| | Sheelagh Brin Ferlito, PE, PTOE | Vectura | PE 25383 | LA | 09/30/2025 |
| | Laurence Lucius Lambert II, PE, PTOE | Vectura | PE 29901 | LA | 3/31/2024 |
| | Reece Rodrigue, PE, PTOE | Vectura | PE 42074 | LA | 3/31/2024 |
| | Kristen Gahagan Farrington, PE, PTOE | Vectura | PE 42785 | LA | 3/31/2025 |
| 4 | Ramesh Kalvakaalva, PE, CVS | TriCoeur Services, LLC | CVS 20111050- Certified Value Specialist | SAVE International (Worldwide) | 10/31/2023 |
| | Charles McDuff, PE, CVS | TriCoeur Services, LLC | CVS 820102- Certified Value Specialist | SAVE International (Worldwide) | Life |
| | Les Thomas, PE, CVS | TriCoeur Services, LLC | CVS 850901- Certified Value Specialist | SAVE International (Worldwide) | Life |
| | | | | | |

**16. Staff Experience:**

| Firm employed by **TriCoeur Services, L.L.C.** | | | | | |
|---|---|---|---|---|---|
| Name | **Barry P Gahagan, P.E., P.L.S.** | | | Years of relevant experience with this employer | 11 |
| Title | Value Specialist | | | Years of relevant experience with other employer(s) | 31 |
| Degree(s) / Years / Specialization | | | Bachelor of Science/ 1980 / Civil Engineering LSU<br>Master of Science / 1990 / Civil (Structural) Engineering LSU | | |
| Active registration number / state / expiration date | | | 21586 / Louisiana / 2024 | | |
| Year registered | 1985 | Discipline | Civil Engineering | | |
| Contract role(s) / brief description of responsibilities | | | Contract Manager / VE Structural/Bridge Team Member. Mr. Gahagan has over thirty years of diverse structural /highway/ bridge design and construction engineering experience substantially in service to the Louisiana DOTD as highlighted below. | | |

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 08/23-08/23 | **H.012066.5 LA 3213 Gramercy Bridge Painting and Rehabilitation** ( St James and St John Parishes) Task manager, QA-QC and VE Structural Team Member Value Engineering (Lafayette, LA) Barry coordinated with design consultant in presentation, engaged team in a workshop at LaDOTD headquarters where all disciples met to discuss alternative options to enhance the project delivery. Supported scope clarity, and constructability initiatives and concerns. Supported Team Leads in interim, final presentations and report preparations. |
| 06/23-07/23 | **H.011235.5 I-49 South at Verot School Road** Task manager, QA-QC and VE Structural Team Member Value Engineering (Lafayette, LA) Under a Value Engineering (VE) IDIQ for DOTD, Barry participated in design consultant presentation, engaged team in the workshop at LaDOTD headquarters where all disciples met to discuss options to enhance the project delivery and supported Team Leads in interim and final presentations. |
| 02/21 – 02/21 | VE Structural Team Member: **LaDOTD State Project No.: H.004100.5 I-10 and I-12 from LA-415 to Essen Lane in East Baton Rouge and West Baton Rouge Parishes, Louisiana Department of Transportation and Development, LA.** Lead Bridge Engineer. Mr. Gahagan was a study team member participating in a Value Engineering Workshop and the development of the Value Engineering Report. The project considered alternative signature bridge types spanning City Park Lake, interchange modifications, drainage retention measures at Acadian Thruway /Dawson Creek, collector-distributor roadways between College and Acadian, alternatives for College Drive interchange, and adding laneage to approximately 9 miles of I -10 and I-12. |

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| 05/21 – 05/21 | VE Structural Team Member: **I-10: I-10 Overpass over US 165 & MP R.R**; LaDOTD State Project No.: H.002980.5 Lead Bridge Engineer. Mr. Gahagan was a study team member participating in a Value Engineering Workshop and the development of the Value Engineering Report. The project considered alternative construction phasing, ramp realignments, and optimal interchange/intersection options. |
| 09/15 – 08/15 | VE Structural Team Member: **LA 3241: LA 36 TO LA 435 TO LA 40/LA 41** S.P. No. H.004113 & S.P. No. H.004435 Mr. Gahagan was a study team member participating in a Value Engineering Workshop and the development of the Value Engineering Report. The project considered alternative construction phasing and pile bent alternatives. |
| 03/16 – 03/16 | VE Structural Team Member: **LA 1 / I-10 Connector**; LaDOTD State Project No.: H.005121 Mr. Gahagan was participating in a Value Engineering Workshop and the development of the Value Engineering Report. The project considered alternative construction phasing and pile bent alternatives. |
| 07/18 – 07/18 | VE Structural Team Member: **MACARTHUR INTERCHANGE COMPLETION PHASE II JEFFERSON PARISH, LOUISIANA**; State Project H.011309; |
| 10/18 – 10/18 | VE Structural Team Member: **I-20 MRB AT VICKSBURG OVERLAY AND REHAB** State Project H.012739.5 Mr. Gahagan was a study team member participating in a Value Engineering Workshop and the development of the Value Engineering Report. The project considered historical bank movement concerns, alternative construction phasing, and manway inspection access. |
| 03/11 – 07/11 | Bridge/Structural Engineer: **Interstate 10 crossing - West Flood Protection Levee- Jefferson Parish, LA**. Provided concept formulation, Construction Modification design, final details and shop drawing review enabling preservation of existing I-10 East and Westbound spans over Parish Canal avoiding the expense and disruptive reconstruction of Interstate spans required to elevate profile above the raised west levee elevated (Post Katrina). |
| 03/90 – 12/90 | Bridge/Structural Engineer: **I-49- I20 Interchange – Shreveport, La**: Participated on Bridge Design Team responsible for Preparing Final Design and Detailing of Framing Plans for fully directional interchange system of Curved Continuous Steel Trapezoidal Box Girder Systems and T-Piers including top Ramp SW and Ramp WS. |
| 06/88 – 03/89 | Bridge/Structural Engineer: **I-49- La 3132 Interchange – Shreveport, La:** Prepared Design and Detail of Curved Continuous Steel Trapezoidal Box Girders and T-Piers for several Ramp components of the directional interchange |
| 02/93 – 04/96 | Bridge/Roadway Engineer: **US 165 I-10 to Fenton, Jefferson Davis Parish, La**:: Project Manager and Lead Civil Engineer widening of the existing 2 lane US Hwy to a 4 laning Urban Arterial Route in Jeff Davis Parish, La. Project involvement included directing value engineering assessment of preliminary design grade, coordination of alternative hydraulic analyses and justification of a lowered design grade. Value Engineering changes resulted in a substantial construction cost savings and reduced flood risk to upstream landowners. |

| Firm employed by **TriCoeur Services, L.L.C.** | | | | | |
|---|---|---|---|---|---|
| Name | **Ramesh Kalvakaalva, PE, CVS** | | Years of relevant experience with this employer | 2 | |
| Title | Value Specialist | | Years of relevant experience with other employer(s) | 30 | |
| Degree(s) / Years / Specialization | | | Bachelor of Science/ 1991 / Civil Engineering / NIT, India<br>Master of Science/ 1995 / Civil Engineering / LSU | | |
| Active registration number / state / expiration date | | | 28219 / Louisiana / 2024 | | |
| Year registered | 1999 | Discipline | Civil Engineering | | |
| Active registration number / state / expiration date | | | 201110500 / SAVE International / 2023 | | |
| Year registered | 2011 | Discipline | Certified Value Specialist | | |
| Contract role(s) / brief description of responsibilities | | | Value Engineering Facilitator / Risk Analyst / Structural/Bridge Team Member. Mr. Kalvakaalva has more than 30 years of experience in civil and structural engineering design, value engineering, risk assessment and project management. His Value Engineering experience includes work for the State Departments of Transportation (GA, LA, FL, TX, WY). Mr. Kalvakaalva has participated as VE Facilitator or Team Member in over 250 VE Studies to-date. His recent VE Facilitation experience specific to Transportation is listed below. | | |

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 06/23-07/23 | **/H.011235.5 I-49 South at Verot School Road Value Engineering (Lafayette, LA)** Under a Value Engineering (VE) IDIQ for DOTD, Ramesh was the VE Co-Facilitator to VE design of proposed mainline, elevated interchange, and frontage road systems enabling upgrade of the US Hwy 90 to Interstate standards. Ramesh participated in design consultant presentation, engaged team in a workshop at LaDOTD headquarters where all disciples met to discuss options to enhance the project delivery. |
| 02/21 – 02/21 | VE Facilitator: I-10: LA 415 to Essen on I-10 and I-12; PHASE 1: WEST OF WASHINGTON STREET TO ESSEN; LaDOTD State Project No.: |
| 05/21 – 05/21 | VE Facilitator: I-10: I-10 Overpass over US 165 & MP R.R; LaDOTD State Project No.: H.002980.5 |
| 02/14 – 02/14 | VE Facilitator: Almonaster Bridge over the Inner Harbor Navigation Canal; ridge Replacement Project Orleans Parish, Louisiana; State Project N No. H.007250 |
| 08/14 – 08/14 | VE Facilitator: I-10: LA 1 Improvements from Leeville to Golden Meadow (Phase 2); State Project No. H.008145 |
| 09/15 – 08/15 | VE Facilitator: LA 3241: LA 36 TO LA 435 TO LA 40/LA 41 S.P. No. H.004113 & S.P. No. H.004435 |
| 03/16 – 03/16 | VE Facilitator: LA 1 / I-10 Connector; LaDOTD State Project No.: H.005121 |
| 07/18 – 07/18 | VE Facilitator: MACARTHUR INTERCHANGE COMPLETION PHASE II JEFFERSON PARISH, LOUISIANA; State Project H.011309; Federal Project H011309 |

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|---|---|
| 10/18 – 10/18 | VE Facilitator: I-20 MRB AT VICKSBURG OVERLAY AND REHAB State Project H.012739.5; Federal Project H012739 |
| 04/22 – 05/22 | VE Facilitator: FDOT - Harborview Rd from Melbourne St. to I-75; FPN #434965-2 |
| 06/20 – 06/20 | VE Facilitator / Risk Assessment Co-Facilitator: FDOT & Turnpike Enterprise CRA + VE - Widening of Florida's Turnpike (SR 91) from Jupiter (Indiantown Road/SR706) to Ft. Pierce (Okeechobee Road/SR70, FPN No. 423374-1 |
| 10/19 – 10/19 | VE Facilitator / Risk Assessment Co-Facilitator: FDOT & Turnpike Enterprise - CRA for the Design segment of Central Polk Parkway from Polk Parkway (SR 570) to US 17 (SR 35), FPID 440897-2; CRA + VE for PD&E segment of Central Polk Parkway from US 17 (SR 35) to SR 60, FPID 440897-4 |
| 06/19 – 06/19 | VE Facilitator: FDOT District 5 - I-75 at NW 49th Street; FPN #: 435209-1 |
| 01/19 – 02/19 | VE Facilitator: FDOT District 5 - SR-9/I-95 from NB Rest Area (MP 23.57) to SB Rest Area (MP 25.508), Brevard County; FPN: #438478-1 |
| 01/19 – 01-19 | VE Facilitator: FDOT District 5 - St. Johns River to Sea (SJR2C) Loop Trail; FPN: #439865-1 |
| 03/19 – 03/19 | VE Facilitator: FDOT District 5 - NASA Causeway Bridge; FPN: #440424-1 |
| 09/17 – 09/17 | VE Facilitator: FDOT District 5 - S.R. 50 from U.S. 301 to C.R. 33; FPN #: 435859-1 |
| 05/19 – 05-19 | VE Facilitator / Risk Assessment Co-Facilitator: FDOT District 6 - SR 826 / Palmetto Expressway from US-1 / South Dixie Highway to SR 836 / Dolphin Expressway; FPN #: 432639-1 |
| 12/16 – 12/16 | VE Facilitator: TxDOT - H-10 Corridor - From West of FM-3538 to FM-359; Project No's.: CSJ 0271-02-055; CSJ 0271-03-061; CSJ 0271-03-060; CSJ 0271-03-046; and CSJ 0271-04-071 |
| 09/16 – 09/16 | VE Facilitator: TxDOT - US-54/IH-10 From Loop 375 (Cesar Chavez Border Highway) to Yandell Dr.; Project No. CSJ 0167-01-113 |
| 09/16 – 09/16 | VE Facilitator: TxDOT - US-54/IH-10 From Loop 375 (Cesar Chavez Border Highway) to Yandell Dr.; Project No. CSJ 0167-01-113 |
| 10/18 – 10/18 | VE Facilitator: USACE Galveston District - Corpus Christi Ship Channel – Jetty Repairs; Contract No. W9126G-16-D-0017 |
| 06/20 – 06/20 | VE Facilitator: USACE Fort Worth District - Design Build (DB) Request for Proposal (RFP) Development for Dallas Floodway - 277k Levee Raise; Contract No. W9126G-16-D-0017 |
| 10/16 – 10/16 | VE Facilitator: WYDOT - State Highway 238 Improvements; Lincoln County; Project No's. 1206007 & 206008 |
| 2019 | Publication - SAVE International: Technical Sub-committee Member – (VMBoK), Chapter 6 and Chapter 9; Visiting Professor at Georgia Institute of Technology teaching VM to Graduate Students |
| Ongoing | Visiting Professor at Georgia Institute of Technology teaching VM to Graduate Students |
| 2015 | Publication - Charles Nickel, PE, Ramesh Kalvakaalva, PE, CVS, Charles McDuff, PE, CVS-Life, LEED AP, FACTORS INFLUENCING VALUE ENGINEERING OUTCOMES - GEOLOGICAL, SOCIO-ECONOMICAL AND SOCIO-POLITICAL, 2015 AASHTO Value Engineering Peer Exchange Workshop, Washington DC |

| Firm employed by **TriCoeur Services, L.L.C.** | | | | | |
|---|---|---|---|---|---|
| Name | **Charles R. McDuff, PE, CVS-Life, CCE, LEED$^{AP}$** | | | Years of relevant experience with this employer | 0 |
| Title | Value Specialist | | | Years of relevant experience with other employer(s) | 44 |
| Degree(s) / Years / Specialization | | | Bachelor of Science/ 1966 / Civil Engineering, University of Missouri, Rolla | | |
| Active registration number / state / expiration date | | | 23471 / Georgia / 2023 | | |
| Year registered | 1970 | Discipline | Civil Engineering | | |
| Active registration number / state / expiration date | | | 820102 / SAVE International / CVS-Life | | |
| Year registered | 1982 | Discipline | Certified Value Specialist | | |
| Contract role(s) / brief description of responsibilities | | | Value Engineering Facilitator / Risk Analyst / Construction / Cost Engineering Team Member. Mr. McDuff has more than 50 years of experience serving as chief of design, construction engineer, and general engineering management consultant on a wide variety of projects in the private and public sectors. Mr. McDuff's value engineering (VE) experience is extensive and includes transportation, municipal, military, commercial, and other government projects. He has served as a VE team facilitator on more than 500 projects and has participated as the civil engineer or cost/constructability team member on numerous other projects. Mr. McDuff also served three years on active duty with the U.S. Army Corps of Engineers (USACE) where he held the rank of Captain and served as combat engineer company commander for one tour in Vietnam, earning the Bronze Star Medal and the Army Commendation Medal for jet fuel facilities construction, often under combat conditions. His recent VE Facilitation experience specific to Transportation is listed below. | | |

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 02/14 – 02/14 | VE Co-Facilitator: Almonaster Bridge over the Inner Harbor Navigation Canal; ridge Replacement Project Orleans Parish, Louisiana; State Project N No. H.007250 |
| 08/14 – 08/14 | VE Co-Facilitator: I-10: LA 1 Improvements from Leeville to Golden Meadow (Phase 2); State Project No. H.008145 |
| 09/15 – 08/15 | VE Co-Facilitator: LA 3241: LA 36 TO LA 435 TO LA 40/LA 41 S.P. No. H.004113 & S.P. No. H.004435 |
| 06/20 – 06/20 | VE Roadway Team Member: FDOT & Turnpike Enterprise CRA + VE - Widening of Florida's Turnpike (SR 91) from Jupiter (Indiantown Road/SR706) to Ft. Pierce (Okeechobee Road/SR70, FPN No. 423374-1 |

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|---|---|
| 10/19 – 10/19 | VE Roadway Team Member: FDOT & Turnpike Enterprise - CRA for the Design segment of Central Polk Parkway from Polk Parkway (SR 570) to US 17 (SR 35), FPID 440897-2; CRA + VE for PD&E segment of Central Polk Parkway from US 17 (SR 35) to SR 60, FPID 440897-4 |
| 06/19 – 06/19 | VE Roadway Team Member: FDOT District 5 - I-75 at NW 49th Street; FPN #: 435209-1 |
| 01/19 – 02/19 | VE Roadway Team Member: FDOT District 5 - SR-9/I-95 from NB Rest Area (MP 23.57) to SB Rest Area (MP 25.508), Brevard County; FPN: #438478-1 |
| 01/19 – 01-19 | VE Roadway Team Member: FDOT District 5 - St. Johns River to Sea (SJR2C) Loop Trail; FPN: #439865-1 |
| 03/19 – 03/19 | VE Roadway Team Member: FDOT District 5 - NASA Causeway Bridge; FPN: #440424-1 |
| 09/17 – 09/17 | VE Roadway Team Member: FDOT District 5 - S.R. 50 from U.S. 301 to C.R. 33; FPN #: 435859-1 |
| 05/19 – 05-19 | VE Roadway Team Member: FDOT District 6 - SR 826 / Palmetto Expressway from US-1 / South Dixie Highway to SR 836 / Dolphin Expressway; FPN #: 432639-1 |
| 12/16 – 12/16 | VE Co- Facilitator: TxDOT - H-10 Corridor - From West of FM-3538 to FM-359; Project No's.: CSJ 0271-02-055; CSJ 0271-03-061; CSJ 0271-03-060; CSJ 0271-03-046; and CSJ 0271-04-071 |
| 09/16 – 09/16 | VE Co-Facilitator: TxDOT - US-54/IH-10 From Loop 375 (Cesar Chavez Border Highway) to Yandell Dr.; Project No. CSJ 0167-01-113 |
| 09/16 – 09/16 | VE Co-Facilitator: TxDOT - US-54/IH-10 From Loop 375 (Cesar Chavez Border Highway) to Yandell Dr.; Project No. CSJ 0167-01-113 |
| 10/18 – 10/18 | VE Co-Facilitator: USACE Galveston District - Corpus Christi Ship Channel – Jetty Repairs; Contract No. W9126G-16-D-0017 |
| 06/20 – 06/20 | VE Hydraulics Team Member: USACE Fort Worth District - Design Build (DB) Request for Proposal (RFP) Development for Dallas Floodway - 277k Levee Raise; Contract No. W9126G-16-D-0017 |
| 2015 | Publication - Charles Nickel, PE, Ramesh Kalvakaalva, PE, CVS, Charles McDuff, PE, CVS-Life, LEED AP, FACTORS INFLUENCING VALUE ENGINEERING OUTCOMES - GEOLOGICAL, SOCIO-ECONOMICAL AND SOCIO-POLITICAL, 2015 AASHTO Value Engineering Peer Exchange Workshop, Washington DC |

| Firm employed by **TriCoeur Services, L.L.C.** | | | | | |
|---|---|---|---|---|---|
| Name | **Leslie M. Thomas, PE, CVS-Life** | | | Years of relevant experience with this employer | 0 |
| Title | Value Specialist | | | Years of relevant experience with other employer(s) | 42 |
| Degree(s) / Years / Specialization | | | BS, Civil Engineering, Virginia Polytechnic Institute and State University | | |
| Active registration number / state / expiration date | | | 23210 / Georgia / 2023 | | |
| Year registered | 1996 | Discipline | Civil Engineering | | |
| Active registration number / state / expiration date | | | 850901 / SAVE International / CVS-Life | | |
| Year registered | 1985 | Discipline | Certified Value Specialist | | |
| Contract role(s) / brief description of responsibilities | | | Value Engineering Facilitator / Risk Analyst / Roadway Engineering Team Member. Mr. Thomas' professional career includes more than 41 years of Civil Engineering Design and Construction with 25 years of that experience in leading value engineering studies. His value engineering study experience includes transportation facilities for FDOT, GDOT, NCDOT, SCDOT, TxDOT, WISDOT and MSDOT. The VE Studies included all aspects of rural and urban sections, as well as major interchanges, interstate highways, roundabouts, single point intersections, Texas "U" turns, etc. Studies included right-of-way acquisitions, multi-purpose trails, bike facilities, wildlife crossings, grade separations, and bridges; both steel and concrete. He has also led studies of medical research facilities such as the new Walter Reed Facility in Wash. DC and special operations facilities for Army, Fort Knox, military headquarters; barracks, UH-60 helicopter hangers; vehicle maintenance facilities and unmanned aircraft support equipment and facilities. He has conducted value engineering studies on projects and programs with capital costs ranging to $2.5 billion. | | |

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 06/23-06/23 | **H.011235.5 I-49 South at Verot School Road Value Engineering (Lafayette, LA)** Under a Value Engineering (VE) IDIQ for DOTD, Les was the VE Co-Facilitator to VE design of proposed mainline, elevated interchange, and frontage road systems enabling upgrade of the US Hwy 90 to Interstate standards. The VE team visited the site south of Lafayette, participated in design consultant presentation, convened a workshop at LaDOTD headquarters where all disciples met to discuss options to enhance the project delivery. |
| 08/23-08/23 | **H.012066.5 LA 3213 Gramercy Bridge Painting and Rehabilitation** ( St James and St John Parishes) Team Leader, QA-QC and VE Structural Team Member Value Engineering (Lafayette, LA) Les coordinated with design consultant in presentation, engaged team in a |

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| | workshop at LaDOTD headquarters where all disciples met to discuss alternative options to enhance the project delivery. Provided interim, final presentations and report preparations. |
| 06/20 – 06/20 | VE Hydraulics Team Member: FDOT & Turnpike Enterprise CRA + VE - Widening of Florida's Turnpike (SR 91) from Jupiter (Indiantown Road/SR706) to Ft. Pierce (Okeechobee Road/SR70, FPN No. 423374-1 |
| 10/19 – 10/19 | VE Hydraulics Team Member: FDOT & Turnpike Enterprise - CRA for the Design segment of Central Polk Parkway from Polk Parkway (SR 570) to US 17 (SR 35), FPID 440897-2; CRA + VE for PD&E segment of Central Polk Parkway from US 17 (SR 35) to SR 60, FPID 440897-4 |
| 06/19 – 06/19 | VE Hydraulics Team Member: FDOT District 5 - I-75 at NW 49th Street; FPN #: 435209-1 |
| 01/19 – 02/19 | VE Hydraulics Team Member: FDOT District 5 - SR-9/I-95 from NB Rest Area (MP 23.57) to SB Rest Area (MP 25.508), Brevard County; FPN: #438478-1 |
| 01/19 – 01-19 | VE Hydraulics Team Member: FDOT District 5 - St. Johns River to Sea (SJR2C) Loop Trail; FPN: #439865-1 |
| 03/19 – 03/19 | VE Hydraulics Team Member: FDOT District 5 - NASA Causeway Bridge; FPN: #440424-1 |
| 09/17 – 09/17 | VE Hydraulics Team Member: FDOT District 5 - S.R. 50 from U.S. 301 to C.R. 33; FPN #: 435859-1 |
| 05/19 – 05-19 | VE Hydraulics Team Member: FDOT District 6 - SR 826 / Palmetto Expressway from US-1 / South Dixie Highway to SR 836 / Dolphin Expressway; FPN #: 432639-1 |
| 10/18 – 10/18 | VE Hydraulics Team Member: USACE Galveston District - Corpus Christi Ship Channel – Jetty Repairs; Contract No. W9126G-16-D-0017 |
| 06/20 – 06/20 | VE Hydraulics Team Member: USACE Fort Worth District - Design Build (DB) Request for Proposal (RFP) Development for Dallas Floodway - 277k Levee Raise; Contract No. W9126G-16-D-0017 |
| 2009-2016 | VE Facilitator: Performed 66 Value Engineering (VE) studies for the GDOT. The studies included rural, secondary, primary and interstate roadways, bridges, drainage, pavement designs, interchanges, flyovers, unlimited and limited access. To date, the GDOT has reported the VE savings to be in excess of $168 Million for just these projects. |
| 05/18 – 05/18 | VE Facilitator: IH-35 from US 37/US 281 to Loop 410 North-San Antonio, TX – Texas Department of Transportation. Recommended capital cost savings $17,486,000. Recommended O&M cost savings $594,000. Recommended life cycle cost savings $17,486,000. |
| 06/17 – 06/17 | VE Facilitator: Reconstruction of I 39/90 and US 12/18 Beltline Interchange - Wisconsin Department of Transportation – Reducing the project construction cost by: Alternate A - $6,238,000, Alternate B - $24,973,000, Alternate C - $37,110,000. |
| 09/17 – 09/17 | VE Facilitator: I-95/U.S. 301 Interchange Improvement –SC Department of Transportation - Orangeburg County Proposed savings of $8.7 million on this $44 million project |

| Firm employed by **TriCoeur Services, L.L.C.** | | | | | |
|---|---|---|---|---|---|
| Name | **Garfield Wray, PE, PGE** | | Years of relevant experience with this employer | 0 | |
| Title | Geotechnical/Foundation Engineer | | Years of relevant experience with other employer(s) | 34 | |
| Degree(s) / Years / Specialization | | | BSCE (Honors), 1983, University of the West Indies, Trinidad, West Indies<br>ME (Geotechnical), 1988, Howard University, Washington, D.C. | | |
| Active registration number / state / expiration date | | | 049734 / Florida / 2023 | | |
| Year registered | 1995 | Discipline | Civil Engineering | | |
| Contract role(s) / brief description of responsibilities | | | Value Engineering Geotechnical/Foundations Engineering Team Member. Mr. Wray has over 30 years of geotechnical experience and has provided project management and performed engineering analyses and design for a wide variety of engineering projects. He has worked on many projects throughout the United States including California, South Florida, the New England area, Washington D.C, Maryland, Virginia, Louisiana, Texas, and throughout the Caribbean. He has extensive knowledge of geotechnical and foundation engineering design and construction issues. His projects include foundations over soft soils, airports, marine ports, bridges, roadways, flood control structures, and other infrastructure developments, industrial facilities including LNG terminals, oil and bauxite refineries, water and wastewater treatment plants, and commercial and residential buildings up to 93 stories tall. His recent experience specific to Transportation is listed below. | | |

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 06/20 – 06/20 | VE Geotechnical Team Member: FDOT & Turnpike Enterprise CRA + VE - Widening of Florida's Turnpike (SR 91) from Jupiter (Indiantown Road/SR706) to Ft. Pierce (Okeechobee Road/SR70, FPN No. 423374-1 |
| 10/19 – 10/19 | VE Geotechnical Team Member: FDOT & Turnpike Enterprise - CRA for the Design segment of Central Polk Parkway from Polk Parkway (SR 570) to US 17 (SR 35), FPID 440897-2; CRA + VE for PD&E segment of Central Polk Parkway from US 17 (SR 35) to SR 60, FPID 440897-4 |
| 05/19 – 05-19 | VE Geotechnical Team Member: FDOT District 6 - SR 826 / Palmetto Expressway from US-1 / South Dixie Highway to SR 836 / Dolphin Expressway; FPN #: 432639-1 |
| 10/18 – 10/18 | VE Geotechnical Team Member: USACE Galveston District - Corpus Christi Ship Channel – Jetty Repairs; Contract No. W9126G-16-D-0017 |
| 06/20 – 06/20 | VE Geotechnical Team Member: USACE Fort Worth District - Design Build (DB) Request for Proposal (RFP) Development for Dallas Floodway - 277k Levee Raise; Contract No. W9126G-16-D-0017 |

| Firm employed by **TriCoeur Services, L.L.C.** | | | | | |
|---|---|---|---|---|---|
| Name | **Bruce Khosrozadeh, PE** | | Years of relevant experience with this employer | < 1 | |
| Title | Geotechnical Engineer | | Years of relevant experience with other employer(s) | 30 | |
| Degree(s) / Years / Specialization | | | BSCE 1986, University of Florida | | |
| Active registration number / state / expiration date | | | 0034026 / Louisiana / 2025 | | |
| Year registered | 1986 | Discipline | Civil Engineering | | |
| Contract role(s) / brief description of responsibilities | | | Value Engineering Structural/Geotechnical/Foundations Engineering Team Member. Mr. Khosrozadeh has over 30 years of experience in geotechnical engineering, construction management and inspection, and materials testing services. Mr. Khosrozadeh has been engaged in performance of geotechnical studies for roadways, major highway and bridge projects, as well as large high-rise office buildings, seaports, and large industrial and commercial projects. His responsibilities have also included marketing, project management, and cost control. He has managed, inspected, tested, and provided technical review along with providing recommendations for foundation types. His extensive experience has included pavement condition surveys, shallow foundation design, design and installation supervision of deep foundations such as drilled shafts, auger cast piles, pre-stressed concrete piles, steel H-piles and pipe piles. Review of plans, specifications, geotechnical reports, pile/drilled shaft installation plans, review of production pile logs, observation of test piles, and pile dynamic load tests, as well as observation of drilled shaft installation are also amongst some of his strongest abilities. Mr. has also performed a wide range of forensic investigations and remediation studies, asphalt and concrete testing, prestress/precast inspections, aggregate and soils tests, and non-destructive testing evaluations. | | |

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 06/23 – 07/23 | VE Geotechnical Team Member of I-49 South at Verot School Road Interchange in Lafayette Parish, SP H. 011235 providing review and recommendations for alternative evaluations for MSE wall, drilled shaft, and driven pile foundations. Review alternatives considered constructability, vibration tolerance, and anticipated cost considerations for installations in close proximity to BNSF railway. |

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| 02/11 – 11/12 | Geotechnical Project Manager of SR 9B Extension from Racetrack Road to Duval CL, FDOT District 2, St. Johns County, FL providing geotechnical engineering services for the construction of a new four-lane divided principal arterial roadway, from CR 2209 to the Duval for a distance of approximately 2.57 miles. |
| 03/10 – 06/12 | Geotechnical Project Manager of I-295 (SR 9A) Widening from Dames Point to I-95 FDOT District 2, Duval County, FL providing geotechnical engineering services for the widening of 9A from Dames Point to I-95. The overall project consists of the interior widening of nearly 8 miles of this highway, including ten bridges, as well as modifications to exit ramps. |
| 11/10 – 03/15 | Geotechnical Project Manager of I-95/I-295 Interchange Improvements FDOT District 2, Duval County, FL conducting subsurface investigations to provide design recommendations for deep foundations including driven precast concrete piles and drilled shafts for the various bridges and flyovers. Also providing design recommendations for high fill embankments, MSE walls, roadway design, and foundations on soft soil. |
| 01/11 – 02/18 | Geotechnical Project Manager of 8 Lane I-295 from Buckman Bridge to I-95, FDOT District 2, Duval County, FL providing geotechnical exploration and evaluation for widening I-295 to provide auxiliary lanes within the existing limited access Right of Way from the SR 13 (San Jose Blvd) Interchange to the Old St Augustine Interchange, and from the Old St Augustine Interchange to the I-95 south Interchange. The design also includes milling and resurfacing of the existing lanes and ramps from the Buckman Bridge to the I-95 south Interchange. |
| 07/10 – 09/17 | Geotechnical Project Manager of I-95 Widening, FDOT District 2, St. Johns County, FL managing all personnel providing Material Testing services, instrumentation, inspection services and for the widening of the intersection and bridge widening; widening of I-95 from four lanes to six lanes including bridge widenings, subgrade and rock base, asphalt base, drainage structures, embankments, curb & gutter, traffic separator, sidewalks, signing and pavement markings, signalization and maintenance of traffic. |
| 02/10 – 06/12 | Geotechnical Project Manager of FDOT SR 243 International Airport Boulevard Extension, Jacksonville, Florida The proposed improvements include the construction of a new urban roadway that consists of four 12-foot wide travel lanes (2 travel lanes in each direction) with a 55-foot wide grassed median from the current Airport Road traversing north to Pecan Park Road, for an approximate distance of 2.5 miles. |
| 02/14 – 11/14 | Geotechnical Project Manager of FDOT District 2, US 1 Bridge (Over St. Mary's River), Nassau County, Florida project directing the geotechnical exploration activities obtaining subsurface data for design of scour revetment countermeasures, deep foundation design, and construction recommendations for the subsurface modifications. Recommendations consisted of precast square concrete piles, steel pipe piles, and drilled shafts to be selected for design of new crutch bents. |

| Firm employed by **TriCoeur Services, L.L.C.** | | | | | |
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| Name | **Thomas M. Willis, P** | | | Years of relevant experience with this employer | 8 |
| Title | Hydraulic / Hydrologic Engineer | | | Years of relevant experience with other employer(s) | 30 |
| Degree(s) / Years / Specialization | | | Bachelor of Science/ 1981 / Civil Engineering / LSU-Baton Rouge<br>Master of Business Administration / 1989 / LSU-Baton Rouge | | |
| Active registration number / state / expiration date | | | 0024205 / Louisiana / 2024 | | |
| Year registered | 1991/1994 | Discipline | Civil Engineering / Environmental Engineering | | |
| Contract role(s) / brief description of responsibilities | | | Value Engineering Hydraulics/Environmental Engineering Team Member. | | |

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 1/12 – 3/23 | New Orleans International Airport Terminal Replacement, Value Engineering Support Studies, New Orleans, LA –VE Team Member for Hydraulic and Environmental including stormwater routing and control structures, and detention basin design. |
| 1/91-1/92 | Replacement of I-10 Bridge over St. John River Value Engineering Review, Jacksonville, FL – VE Team Member for Hydraulic and Environmental including stormwater control and detention basin design. |
| 02/93 – 04/96 | US 165 Widening, I-10 to Fenton – VE Team Member for Hydraulic and Environmental to adjust design grade and bridges at Woodlawn Bayou, Bayou Arceneaux, and Little Bayou, resulting in reduced flood risk. |
| 1/02 – 1/014 | LaDOTD, Crescent City Connection (CCC) Authority Project Manager and Authority Liaison, LA - VE Team Member for Hydraulic and Environmental for the Mississippi River crossing bridges, Toll Facilities, Westbank Expressway, CCC buildings and Marine Facilities for ferry crossings. |
| 1/00-1/04 | MDOT Statewide Scour Studies – Project manager / engineer with primary responsibility of field review, analysis, report preparation and multidiscipline coordination associated with scour inspection of 50 different structures, including major bridge crossings of the I-10 Biloxi, I-10 Pearl, I-10 Jourdan, I-10 Tchoutacabouffa, I-10 Wolf, Rte. 613 Escatawpa, and Rte. I-49 Leaf. Scour countermeasure design was a key component. |
| 1/00-1/02 | Great River Bridge, Desha County, Arkansas to Bolivar County, Mississippi - Project engineer performing value engineering and planning for location and hydraulic studies to develop an EIS and a supplemental EIS for a new roadway alignment and crossing of the Mississippi River. |
| 1/96.-1/98 | US 171 Corridor Study, LA - Performed master plan hydraulic analysis, field reviews, and value engineering for various sections of the corridor and for several town by-pass alternates. |
| 1/81-1/84 | I-49, Shreveport Urban Segment, LA - Prepared drainage master plan, value engineering, and the preliminary drainage plans. Work consisted of designing and detailing of subsurface drainage systems, major culvert crossings, outfall channels, and roadside channels. Prepared the impact to Floodplain Analysis reports for various sections of the project. |
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| Firm employed by **Vectura Consulting Services, LLC** | | | | |
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| Name | **Sheelagh Brin Ferlito, PE, PTOE** | | Years of experience with this firm/employer | 6 |
| Title | Principal | | Years of experience with other firm(s)/employer(s) | 27 |
| Degree(s) / Years / Specialization | | | B.S. / 1988/ Civil Engineering | |
| Active registration number / state / expiration date | | | PE.0025383 / LA 9/30/2023 | |
| Year registered | 1993 | Discipline | Civil | |
| Contract role(s) / brief description of responsibilities | | | Traffic Signal / ITS CE&I Supervisor | |

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the ~~time~~ years of experience specified in the applicable MPR(s). |
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| 07/21 - current | **H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, LA)** Brin is the task leader for Vectura for the **Construction Engineering and Inspection of 24 traffic signals**. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations. |
| 07/19 – current | **MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** Brin is the lead traffic engineer for entire the New Capacity Projects program management team. **All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin.** She is in constant communication with the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects. |
| 06/23-06/23 | **H.011235.5 I-49 South at Verot School Road Value Engineering (Lafayette, LA)** Under a Value Engineering (VE) IDIQ for DOTD, Brin was the subject matter expert for Traffic Engineering to VE an interchange design for construction. Brin reviewed the plan set prior to a week-long value engineering session. She visited the field with the VE team to verify if any changes could be made to the plans. Then the VE team convened a workshop where all disciples meet to discuss options to reduce the cost of the project. |
| 07/19 – current | **H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA)** Brin is the project manager for the **temporary and permanent traffic signal plans** for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on **design year volumes** that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by Louisiana DOTD. |
| 09/20 – 12/21 | **H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish, LA)** Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at Tanger Boulevard. Vectura also developed **signal timing plans** for each phase of the construction to maintain progression along LA 30. |
| 07/18 – 04/19 | **LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish, Addis, LA** Brin developed a Pedestrian Crosswalk Study and **Traffic Signal Construction Plans** for the intersection of LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on DOTD requirements. The study included **traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses**. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, DOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DOTD Permit Request for Intersection Control Devices on a State Right of Way. |
| 09/17-04/18 | **US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA** Brin developed a formal traffic study for a proposed crosswalk with pedestrian **traffic signal equipment and pedestrian clearance timings** based on DOTD requirements. |

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| | Brin assisted with **vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street**. From the design study, a set of **Traffic Signal Modification Plans** were developed to implement the recommended alternative. |
| 09/16 - 04/17 | **H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA)** Brin was the project manager of a formal DOTD traffic study for the new alignment of LA 3241 with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. The traffic study included **alternative analyses** to improve the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management and complete streets. Specific access management features examined included intersection improvements, median openings, and U-turns, spacing and type of openings, signalization of intersections and roundabouts. Brin developed the **safety analyses report** for the project. |
| 04/14 – 12/14 | **H.002301 Signal Design for N. Sherwood Forest Dr. Widening Project (Baton Rouge, LA)** As the project engineer, Brin was in responsible charge for **data collection and design for three signalized intersections** as part of a road widening project per EBR DPW and DOTD requirements. She developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She performed tasks to develop the striping plans and sequence of construction plans including temporary signal equipment placement due to lane shifts during construction. |
| 07/12-03/14 | **EBR 03-TS-CI-0026 CE&I for EBR Traffic Signal Systems Jefferson Highway Construction (Baton Rouge, LA)** Brin was the Project Resident Engineer on behalf of EBR for performing **CE&I services for the construction of 11 traffic signals**. She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She coordinated with DOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM / EOC building. She processed all monthly tasks in EBR formats and all items on EBR project closeout checklist. |
| 07/08-09/09 | **SPN 013-05-0043 CE&I for EBR Traffic Signal Systems Phase IV Construction (Baton Rouge, LA)** Brin was the Project Resident Engineer for DOTD and EBR to perform **CE&I services for the construction of 21 traffic signals**. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report. |
| 01/09 – 03/12 | **S.P. No. 700-99-0332 US 165 Corridor Study Pineville** Brin was the Senior Project Engineer for a corridor traffic study in Pineville, LA. The project included traffic data collection, forecast traffic volume development, existing analyses and proposed **alternative analyses** that included improved traffic signal timings. She used Highway Capacity Manual software, Sidra software and VISSIM traffic simulation software to evaluate existing and proposed alternative conditions. Access management principles were applied to the proposed alternatives. |
| 09/13 – 04/14 | **S.P. 700-99-0477 Jefferson Hwy. Signal Design (Baton Rouge, LA)** Ms. Ferlito designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included **traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout**. Design including **traffic signal synchronization signal timing** and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans, and specifications. |
| 03/05 – 11/05 | **Airline Hwy Widening SPN 700-99-0332 (Baton Rouge, LA)** Brin designed 8 traffic signals as part of the Airline Hwy. widening project in Baton Rouge. Her design included **traffic data collection, traffic signal equipment, signal synchronization timing, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate**. This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM / EOC. |
| 02/03 – 01/04 | **EBR Traffic Signal Systems Phases IV and V SPN 700-17-0172 (Baton Rouge, LA)** Brin was the project engineer for the **design of 66 signalized intersections** on eight arterials in Baton Rouge which included traffic data collection, traffic signal equipment, pedestrian crosswalk equipment, emergency vehicle and railroad preemption equipment, fiber interconnect equipment as well as traffic signal synchronization. Brin prepared traffic signal construction plans, estimated quantities, and specifications. |

| Firm employed by **Vectura Consulting Services, LLC** | | | |
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| Name | Laurence Lucius Lambert, II, PE, PTOE, PTP | Years of relevant experience with this employer | 8 |
| Title | Principal | Years of relevant experience with other employer(s) | 18 |
| Degree(s) / Years / Specialization | | B.S./1997/Civil Engr. M.S./2006/Civil Engr. (Transportation focus) M.B.A./2010 | |
| Active registration number / state / expiration date | | PE.0029901 / LA / 3/31/2024 | |
| Year registered | 2001 | Discipline | Civil |
| Contract role(s) / brief description of responsibilities | | Traffic Control Design, Traffic Signal Analysis and Design / TMPs / Peer Reviews | |

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 12/21 – current | **H.012030.5 US 371 KCS RR Overpasses HBI (Webster Parish, LA)** Laurence was the project manager for the design of permanent pavement marking and signing sheets for the construction plans in MicroStation. He will also participate in the QC of the sequence of construction and detour route. |
| 06/21 – 02/22 | **H.013267 Capital Area Pathways Project (Baton Rouge, LA)** Laurence was project manager for a traffic study to evaluate trail crossings at three state routes that required DOTD approval. The traffic study included **traffic data collection, safety analysis, existing conditions analysis and alternative analysis**. Laurence used the DOTD Traffic Engineering Manual, MUTCD, and FHWA guidance to develop the most effective trail crossing alternatives. |
| 07/19 – current | **MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the **travel demand model** to prioritize the MOVEBR project list. Laurence and Pong Wu developed a list of vehicle miles traveled, V/C ratios and vehicles hours of delay. Laurence also provided **peer review** for the traffic studies for Ben Hur Road and Lee Drive. |
| 02/21 - 03/21 | **H.013256.5 I-10 ITS Scott to Lake Charles (Southwest Louisiana)** Laurence was the lead traffic engineer for a Level 2 **Traffic Management Plan** (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies. |
| 04/18 – 12/21 | **H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales (Ascension, LA)** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**. Vectura also provided Quality Control review of **signing and striping plans** at 30% and 60% plan sets to ensure the **roundabouts** conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts. |
| 04/18 – 12/21 | **H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish, LA)** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**. Vectura also provided Quality Control review of **signing and striping plans** at 30% and 60% plan sets to ensure the **roundabouts** conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts. |
| 02/20 – 09/21 | **College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA)** Laurence was the **project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection)** for proposed improvements College Drive. Since the I-10 interchange was included in the study, **approval from DOTD was required**. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations. |
| 10/17 - 10/18 | **H.013025 LA 182 (University Avenue) Corridor Planning Study (Lafayette, LA)** Laurence was the lead transportation engineer for a **Corridor Planning Study** for LA 182. The scope focused on improving safety and mobility for pedestrian, bicycle, and transit users. Laurence collected AM & PM peak vehicle turning movement counts as well as pedestrian and bicycle counts. Laurence coordinated with the Acadiana Planning Commission to **develop growth rates and design year volumes**. Laurence then performed Highway Capacity Manual analysis for 5 intersections along the intersection analyses for the signalized and roundabout |

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| | controlled alternatives. Included in the study was a **safety analyses** of five intersections and the intermediate segments. Based on the results of the safety analysis, Laurence provided design criteria to the design team for improving safety of pedestrians, bicycles, and vehicles. |
| 09/16 - 04/17 | **H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA)** Laurence was the lead traffic engineer for a **DOTD traffic study** for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data from the travel demand model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management that included the I-12 interchange ramps. Laurence **collected 7-day, 24-hour counts** w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM **traffic simulation model** of the preferred alternative. |
| 07/14 - 01/17 | **FHWA Intersection & Interchange Geometrics: Innovative Design Considerations for All Users (Multiple States)** FHWA funded workshops for state Departments of Transportation that were interested in learning more about innovative intersection & interchange design. Laurence presented either part or all the one-day or two-day workshops that included modules on the overall policy and goals of FHWA for these types of innovations, roundabouts, roundabout interchanges, DLTs, DDIs, J-turns / Superstreets, MUT, Thru-turns, quadrant, and the assessment tools (CAP-X) available to compare the measures of effectiveness of each innovation. Each module includes sections on design, traffic operations, safety and multi-modal accommodation Laurence has presented for the Alabama, Kentucky, Ohio, Oklahoma, Massachusetts, Tennessee, and Texas Departments of Transportation under this contract. |
| 06/16 - 09/17 | **H.004490 Stage 0 Roundabout Studies, (Lafayette Parish, LA)** Laurence performed a **Stage 0 Feasibility Study** for roundabouts at ten intersections in the Lafayette area. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Laurence, along with Brin, **collected 7-day, 24-hour counts w/ classification, turning movement counts for peak periods and speed data for mainlines**. Once the traffic data was collected, Laurence performed **traffic signal warrants analyses**, performed a Sidra unsignalized, signalized and roundabout analyses. After the analyses were completed, Laurence developed a report that captured the results. |
| 03/10 - 11/11 | **S.P. No. 700-09-0171 Stage 0 and 1 Study I-49 Inner City Connector (Shreveport, LA)** This 3.5-mile route will connect existing I-49 / I-20 interchange to the proposed I-49 / I-220 interchange. After completing the **Stage 0**, Laurence was the project manager for the traffic analyses for the EA phase. The total traffic analyses effort included over 30 TransCAD Models, 20 interchanges and 70 intersections. Analyses included signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments at the studied intersections and interchanges. This project included performing both Interchange Modifications Reports (IMRs) and Interchange Justification Reports (IJRs). |
| 11/09 – 08/10 | **I-12 at Millerville Road Interchange Modification Request (Baton Rouge, LA)** The scope of this project consisted of preparing and obtaining environmental clearance for the proposed future roadway and signal improvements at the I-12 / Millerville Road Interchange. Laurence prepared documents and obtained environmental clearance for all on-site work and held public meetings. Laurence developed all HCS analyses and a micro-simulation model. Laurence also participated in several public meetings to satisfy the environmental clearance requirements. |
| 09/06 - 09/07 | **EBR 06-CS-HC-00012 Downtown Baton Rouge Signal Project (Baton Rouge)** Laurence was the Project Manager to develop **construction plans to upgrade 29 signals** in downtown Baton Rouge as part of the EBR Green Light Plan. Laurence developed a design study that included **traffic data collection**, handicap ramp recommendations, countdown pedestrian signals and internally illuminated street name signs. |
| 04/04 - 09/06 | **Stage 0 I-10 at Pecue Lane Interchange Justification Study (Baton Rouge, LA)** Laurence was the lead traffic engineer for a **Stage 0** traffic study analyzing the proposed interchange at I-10 and Pecue Lane. Laurence developed current and future traffic volumes based on the CRPC **TransCAD model** growth rates. Using HCS, Laurence **analyzed signalized and unsignalized intersections**, basic freeway segments, freeway merge / diverge segments and freeway weaving segments. Laurence also developed a micro-simulation model in both VISSIM and TSIS. |
| 04/04 - 12/04 | **I-10 Frontage Roads, Picardy Interchange, Bluebonnet Siegen (Baton Rouge, LA)** Laurence provided the traffic analysis for a highly unique reconfiguration of interstate ramps that included frontage roads and an overpass of I-10 for new an interchange at Picardy. HCS and VISSIM were the primary analysis tools for the analysis. As part of the design team that developed the concept for this project, Laurence performed **feasibility studies**, developed design criteria, and coordinated with city, state and federal agencies for approvals as well as gathered public input. Laurence prepared traffic signal timings and designs that included cost estimates for the project. |

| Firm employed by **Vectura Consulting Services, LLC** | | | |
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| Name | Reece Rodrigue, PE, PTOE, RSP1 | Years of relevant experience with this employer | 3 |
| Title | Project Traffic Engineer | Years of relevant experience with other employer(s) | 7 |
| Degree(s) / Years / Specialization | | B.S. / 2013 / Civil Engineering | |
| Active registration number / state / expiration date | | PE. 0042074 / LA / 3/31/2024 | |
| Year registered | 2017 | Discipline | Civil |
| Contract role(s) / brief description of responsibilities | | Project Engineer for Traffic Control Design, Traffic Signal Analysis and Design / TMPs / Peer Reviews | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 04/21 - current | **MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA** Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing. |
| 07/21 – current | **H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge)** Reece is part of the team responsible for **Construction Engineering and Inspection**. Reece has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations. |
| 01/21 – 05/21 | **H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes)** Reece was a member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Reece was responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by using **DOTD's Bid Tabulation and Cost Estimating Tool**. |
| 09/20 – 12/21 | **H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish)** Reece was a project engineer, who participated in the production of the temporary **signal design** associated with the **sequence of construction** for the roundabout at US 171 at Boone St. He conducted a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns. |
| 09/20 – 12/21 | **H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish)** Reece was a project engineer, who assisted in the production of the temporary **signal design** associated with the **sequence of construction** for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns. |
| 04/20 - current | **H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse)** Reece is the project engineer who **designed the temporary traffic signal** for the intersection of LA 23 at Engineers Rd. The design of the temporary signals is set for eight phases of construction per the anticipated sequence of construction. Temporary pole location and heights were recommended for placement for use for all construction phases. Vehicle clearance interval calculations were conducted for each phase in accordance with DOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the Traffic Management Plan, which was also used in planning for the permanent and temporary signal timing plans. Reece also produced permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated STOP bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. Reece maintains |

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| | correspondence with the fellow design engineering team for product consistency. In addition, Reece reviewed and approved shop drawings that were submitted by the contractor. |
| 04/21 - current | **MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA** Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing. |
| 02/20 – 09/21 | **College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA)** Reece was the task leader for organizing and formatting the **data collection** of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts. |
| 07/19 – 12/19 | **Burgess Avenue at Duff Road Traffic Signal Design, Walker, LA** Reece was responsible for the design of a fully actuated signalized intersection in the city of Walker, LA. The traffic signal was determined to meet signal warrants upon completion of the Foxglove subdivision in Livingston Parish, LA. Plans included road widening, signal face indication schedule, signal sequence chart, sign schedule, detector schedule, controller timing, wiring diagram, and free operation phasing diagram. Reece met with city officials to discuss the feasibility of constructing a traffic signal as opposed to other alternative measures for improving the intersection. |
| 02/16 - 12/16 | **H.005733.5 US 190 Superstreet Task Order (St. Tammany Parish)** Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the **preliminary plans using CAD** software program MicroStation V8i. He aided in the technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand walk-through. |
| 01/16 – 11/17 | **Ochsner Main Campus Traffic Signals (Jefferson Parish)** Reece served as a design engineer for the **traffic signal plans** for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Hwy). The goal of the design was to implement updated pedestrian timings as well as optimize progression through the US 90 corridor. He reviewed traffic data and assigned time of day coordination timing parameters for the two intersections so that they may be included in the coordinated system west of the intersections. He used TruTraffic to determine the appropriate offset parameters so that vehicles may progress efficiently through the coordinated system. Plans for the two intersections were drafted in the form of DOTD's latest version of the TSI format. He was responsible for estimating construction quantities using DOTD's 2016 Spec Item list. |
| 10/16 – 05/17 | **Loyola Interchange Modification Request, Kenner, LA** Reece was a team member in the production of an Interchange Modification Report (IMR) for the I-10 at Loyola Dr. Interchange. He was an active member in collecting vehicle travel time data and processing the data. He also aided in collecting vehicle queues at the study intersections. He also assisted in the Vissim model calibration. |
| 02/15 – 12/15 | **H.011646 Retainer Contract for DOTD District 02 Traffic Signal Inventories - Nola 3** Reece served as the lead engineer in the production of the traffic study for the District 02 Traffic Signal Inventories. The objective was to effectively correct the progression of traffic through the US 90 (Broad St) corridor. He reviewed vehicle crash data at all intersections in the study scope. He conducted travel time runs. He created a model with existing traffic signal timing information using Synchro 8 Software. He recommended traffic signal pedestrian clearance times and yellow and red clearance times for each intersection. He used MicroStation V8i when designing traffic signal plans in DOTD's TSI format. |

| Firm employed by Vectura Consulting Services, LLC | | | |
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| Name | Kristen Gahagan Farrington, PE, PTOE, RSP1 | Years of relevant experience with this employer | 2 |
| Title | Project Traffic Engineer | Years of relevant experience with other employer(s) | 7 |
| Degree(s) / Years / Specialization | | B.S. / 2013 / Civil Engineering | |
| Active registration number / state / expiration date | | PE. 0042785 / LA / 3/31/2025 | |
| Year registered | 2016 | Discipline | Civil |
| Contract role(s) / brief description of responsibilities | | Project Engineer for Traffic Control Design, Traffic Signal Analysis and Design / TMPs / Peer Reviews | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 12/21 – current | **H.012030.5 US 371 KCS RR Overpasses HBI (Webster Parish, LA)** Kristen was the project engineer to design permanent pavement marking and signing sheets for the construction plans in MicroStation. She will also participate in the QC of the sequence of construction and detour route. |
| 04/21 - current | **CP No. 16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project (Baton Rouge, LA)** Kristen a project engineer for a **traffic design study and traffic signal design of 19 signals** along three corridors: Plank Road, 22nd Street and US 190 (Florida Street). Kristen assisted the prime consultant with the safety analysis as well. |
| 08/21 – 04/22 | **H.013267 Downtown to Scotlandville Parkway Trail Safety Enhancement Study (Baton Rouge, LA)** Kristen was a project engineer for a design study to evaluate the recommended street crossing treatments of the trail at eight locations. The project consisted of collecting **vehicular speed and volume data** at the proposed trail crossings. Geometric field checks were also performed to determine if any hazards to pedestrians or cyclists existed. Once the field data was collected and analyzed, appropriate crossing treatments utilizing the *FHWA STEP Guide for Improving Pedestrian Safety at Unsignalized Locations* were developed that included Rectangular Rapid-Flashing Beacons (RRFB) and Pedestrian Hybrid Beacons (PHB's). Currently, Vectura is developing plans for the PHB's at four locations which will be the first implementation of PHB's in the Baton Rouge area. |
| 02/20 – 09/21 | **MOVEBR College Drive Enhancement Project (Baton Rouge, LA)** Kristen assisted with the **data collection** task of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts. |
| 6/19 - 2/21 | **H.013459 US 167 Improvements Stage 0 Elsie Street to Gilbert Street (St. Landry Parish, LA)** Kristen served as project manager for a **Stage 0** study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. Environmental impacts and cost estimates were prepared, as well as a benefit-cost analysis of all improvements considered. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. Designed high-level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes. |
| 6/19 - 2/21 | **H.013460 US 167 Improvements Stage 0 Enola Street to Ross Road (Evangeline Parish, LA)** Kristen served as project manager for a **Stage 0** study of a two-lane road to remove a curvilinear section of US 167 from Enola Street near LA 748, southeast for approximately 1.2 miles. The study compared connecting existing property owners to a new roadway with driveways or intersection of old roadway. Environmental impacts and cost estimates were prepared. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis, as well as a benefit-cost analysis. Designed high-level concept exhibits and a comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes. |

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| 04/19 – 6/21 | **H.013817.1 LA 117 Improvements Stage 0 (Vernon and Natchitoches Parishes, LA)** Kristen served as project engineer responsible for a **Stage 0** study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project. Kristen compiled all findings in the **Stage 0** report and coordinated with stakeholders and local agencies to ensure the purpose and need of project is met. |
| 03/19 – 11/19 | **H.012311 LA 429 Connector Stage 0 (Ascension Parish, LA)** Kristen was the task leader for the preparation of a **Stage 0** study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the **Stage 0** Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report. |
| 11/18 - 3/21 | **H.013322 LA 3040 Feasibility / Safety Study Stage 0 (Houma, LA)** Kristen served as project engineer for a study to identify safety and operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered. Kristen was responsible for compiling a data collection plan for submittal to DOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as **unmet demand observations and calculations**. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the DOTD Traffic Process and Report and wrote Chapter 1 of report. Kristen represented the project at stakeholder meetings to discuss project status. |
| 04/18 – 04/19 | **H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0 (St. Landry Parish, LA)** Kristen was the project engineer responsible for crash and safety analysis, report writing, planning, and designing for this **Stage 0** Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the LADOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps. Close coordination with traffic engineer ensured maximum improvement of safety and operations given limited right-of-way and utility conflicts along the corridors. |
| 09/17 – 09/18 | **H.011160 LA 73 Corridor Study Stage 0 LA 74 to LA 621 (Ascension Parish, LA)** Kristen was the designer responsible for concept development, report writing, and impact analysis for a **Stage 0** study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared. |
| 11/16 – 07/17 | **H.001271 Cane River Bridge Church Street Route LA 1-X Environmental Assessment** Kristen was the project engineer responsible for assisting with the site visits, data organization, **analysis of permanent alternatives and traffic control alternatives**, and traffic report to aid in the delivery of an environmental assessment for the Cane River Bridge Replacement |

| Firm employed by Vectura Consulting Services, LLC | | | | | |
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| Name | Ronald St. Angelo | | | Years of relevant experience with this employer | <1 |
| Title | Construction Specialist | | | Years of relevant experience with other employer(s) | 48 |
| Degree(s) / Years / Specialization | | | High School Diploma / 1975 | | |
| Active registration number / state / expiration date | | | | | |
| Year registered | | Discipline | | | |
| Contract role(s) / brief description of responsibilities | | | Senior-level Construction Specialist | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 02/03 – 04/23 | **Jack B Harper Electrical, LLC (Walker, LA)** Ronnie specialized in programming traffic signal controls / ITS equipment and troubleshooting construction issues in the field such as utility conflicts and traffic signal issues. He was a project manager for numerous traffic signal related projects and oversaw a team of field technicians for signal related construction projects. He was an estimator for bidding traffic signal / ITS equipment projects. Ronnie worked extensively throughout the state of Louisiana on hundreds of local, state, and federally funded traffic signal / ITS projects, to include major metropolitan areas, such as Greater New Orleans, Baton Rouge, and Lafayette. During this time, Ronnie worked on projects that built intersections from the ground up, to include base / signal installation, signal control electrical installation, and signal termination. Read and interpreted construction plans to ensure proper installation requirements were met for span wire and mast arm installation. Extensive experience in installing all forms of traffic signals during all construction phases. Assisted site inspectors with confirming mast arm foundation locations; drawing reviews; change requests; and verifying controller data collection and timing checks. |
| 07/75 – 01/03 | **East Baton Rouge Traffic Engineering Division** Ronnie was a certified IMSA Level 1 & 2 Technician while employed at the City of Baton Rouge. Ronnie performed numerous construction tasks in relation to traffic signals within East Baton Rouge Parish. Construction included traffic signal poles, signal heads, signal wiring, vehicle detection, traffic signal controller / cabinet power service. In the earlier part of his career, the traffic signal controllers consisted of mechanical parts. As time progressed, the controller evolved to steady-state technology. In addition, Ronnie performed traffic signal tasks related to maintenance after damage from collisions or extreme weather. While employed in the city, Ronnie was tasked with maintaining over 300 signals that included DOTD intersections. Ronnie started his career at the City of Baton Rouge as a Technician, then Traffic Signal Technician, then Foreman and finally a supervisor. Ronnie was also responsible for programming traffic signal controllers while at the City. |

| Firm employed by: Digital Engineering | | | |
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| Name | Frank Liang, P.E., PTOE | Years of relevant experience with this employer | 28 |
| Title | Sr. Vice President, Principal | Years of relevant experience with other employer(s) | 0 |

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| Degree(s) / Years / Specialization | | | BS / 1994 / Civil Engineering |
| Active registration number / state / expiration date | | | PE.0028549 / LA / Exp. 03/2024; PTOE #3362 / LA / Exp. 11/2024 |
| Year registered | 1993 | Discipline | Civil Engineering |
| Contract role(s) / brief description of responsibilities | | | SME for Roadway, Geometrics, Constructability Review<br>Meets MRP No. 1, 2, 3 |

Mr. Frank Liang oversees the Transportation Division at Digital Engineering. His experience includes transportation engineering, construction management, civil engineering, and project management for the LADOTD, the Regional Planning Commission, and local government agencies. Frank has been involved with SRTS/SRTPPP and LRSP Programs – which evolved into LADOTD Safety Design IDIQ – since the inception of the program nearly 15 years ago. He has served as lead engineer for traffic and transportation analysis, safety studies and design improvements in accordance with ASSHTO, MUTCD and LADOTD requirements. As Chief Engineer, he oversees the design, schedule, and progress of all projects within the company.

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 01/18 – 03/20 | **Bridge Inspections, Load Ratings and Repairs for City of New Orleans, LA**<br>Sr Tech Advisor for the development of the plans and specifications for the repair of five off systems bridges. He monitored daily construction activity and addressed issues as they arose. During construction, he evaluated a value engineering option which utilized new pile repair technologies utilizing epoxy resins, synthetic carbon fiber and fiberglass mats to repair the damaged piles. For this synthetic repair, he had to evaluate the theory and bridge load rating calculations developed for this system to ensure compliance with LADOTD load rating requirements. |
| 01/15 – 05/19 | **LADOTD H.0011276: New Orleans Airport Connector Road North Terminal Access Road, Kenner, LA**<br>Sr Tech Advisor for design of new Access Road to the new North Terminal. Scope included the construction of a 4 lane divided concrete roadway along existing Aberdeen Street to the Airport property. Improvements included the removal of the fire station for the installation of more improvements (lanes) in addition to what was already proposed. Provided value engineering services resulting in a change order to the existing road construction project and to redesign the roadway geometry, drainage, lighting, and traffic signal system for the installation of additional lanes south of Veterans. |
| 03/04 – 06/13 | **Huey P. Long Bridge Improvements, Jefferson DPW, Jefferson Parish, LA**<br>Project Manager responsible for evaluation of traffic impacts to local infrastructure as part of the widening of the existing bridge and reconstruction of roadway approaches/intersections. He performed value engineering for the proposed alignments of approaches and major interchanges for both banks of the river. Keeping the State's design guidelines and requirements in mind, these alignments were reviewed for the viability of the development of adjacent properties upon completion of the project, property acquisitions, and access to adjacent properties. He concluded that significant changes were needed to the westbank approach and proposed a new alignment. Upon review by all project stakeholders, this proposed alignment was ultimately adapted by LADOTD. |

| Firm employed by: Digital Engineering | | | | | |
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| Name | **Alan Krouse, P.E.** | | | Years of relevant experience with this employer | 3 |
| Title | Senior Project Manager | | | Years of relevant experience with other employer(s) | 43 |
| Degree(s) / Years / Specialization | | | BS / 1977 / Civil Engineering | | |
| Active registration number / state / expiration date | | | PE.0019391 / LA / Exp. 09/2024 | | |
| Year registered | 1981 | Discipline | Civil Engineering | | |
| Contract role(s) / brief description of responsibilities | | | SME for Roadway, Geometrics, Constructability Review Meets MRP No. 2, 3 | | |

Mr. Alan Krouse is a Senior Project Manager responsible for management of complex infrastructure projects, and QAQC. His 45+ years of experience spans a career working for both the public sector and private consulting companies. As a Coordinating Squad Leader in Road Design for the Louisiana Department of Transportation and Development (LADOTD), Alan managed projects in excess of $100 million that required the coordination of 20 design consultants in major metropolitan areas. Following his tenure at LADOTD, Alan entered the professional engineering consultant industry where he continued designing and managing transportation projects for LADOTD and other public agencies. Alan's experience includes Stage 0 Feasibility Studies, Safety Studies, design of safety improvements, Environmental Inventories, along with major highway improvement design. Alan currently serves on the Louisiana Complete Streets Advisory Council.

| Experience dates mm/yy–mm/yy | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 04/14 – 12/19 | **LADOTD: US 425 Roundabout Design, Sigma Consulting Group, Inc., Rayville, LA**<br>Senior Technical Advisor responsible for quality assurance of design submittals, drainage, and geometric reviews for the design of a new roundabout at the intersection of US 425 and Grimshaw Street and Christian Drive and relocation of an existing frontage road, including construction phasing, quantity calculations, cost estimates, and drainage design. |
| 00/13 – 01/16 | **Engineering Services for Widening of Highway 64, AHTD, White County, AR**<br>Senior Technical Advisor responsible for quality assurance reviews for all design submittals for environmental clearance documentation and permit application packages, as well as roadway design and plans, and right-of-way plans. |
| 03/88 – 07/91 | **LADOTD: 2 miles of new five-lane urban roadway on LA 523 in Shreveport, LA**<br>The scope of this project was for the design of a new five lane road with curb and gutter and subsurface drainage in Shreveport. For the new roadway Mr. Krouse performed all horizontal and vertical geometric design, development of roadway typical sections, design of all cross section elements to meet current safety design requirements, design of all roadway drainage, development of construction signage and phasing plans, calculation of all quantities for bidding purposes according to LADOTD design specifications and general plan preparation. |

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| 04/89 – 10/92 | **LADOTD: 1.2 miles of new five-lane urban roadway on US 79 in Minden, LA**<br>The scope of this project was for the design of a new five lane section in the town of Minden. The design included all intersection improvements. For the new roadway Mr. Krouse performed all horizontal and vertical geometric design, development of roadway typical sections, design of all cross section elements to meet current safety design requirements, design of all roadway drainage, development of construction signage and phasing plans, calculation of all quantities for bidding purposes according to LADOTD design specifications and general plan preparation. |
| 08/90 – 10/93 | **2 miles of new city streets adjacent to and under I-49 in Alexandria, LA**<br>The scope of this project was for the design of two access roads parallel to I-49 which was elevated through town along with five crossroads. Four of the crossroads required an underpass below the existing railroad. All roads were multi-lane curb and gutter with subsurface drainage. For the new roadways Mr. Krouse performed all horizontal and vertical geometric design, development of roadway typical sections, design of all cross-section elements to meet current safety design requirements, design of all roadway drainage, development of construction signage and phasing plans, calculation of all quantities for bidding purposes according to LADOTD design specifications and general plan preparation. |
| 07/96 – 10/98 | **LADOTD: US 171, Gillis-Ragley widen to four lanes**<br>The scope of this project required the design of a rural four lane highway with open median and ditches to replace an existing two-lane highway. For the new roadway Mr. Krouse performed all horizontal and vertical geometric design, development of roadway typical sections, design of all cross-section elements to meet current safety design requirements, design of all roadway drainage, development of construction signage and phasing plans, calculation of all quantities for bidding purposes according to LADOTD design specifications and general plan preparation. |
| 10/95 – 11/99 | **I-10/Ryan Street Interchange, Lake Charles, LA**<br>The scope of this project required the design of new Interstate access ramps and frontage roads to provide connectivity. The ramp construction required the reconstruction of the interstate acceleration and deceleration lanes, the gore areas on I-10 along with ramps and frontage roads. For the new roadway Mr. Krouse performed all horizontal and vertical geometric design, development of roadway typical sections, design of all cross section elements to meet current safety design requirements, design of all roadway drainage, development of construction signage and phasing plans, calculation of all quantities for bidding purposes according to LADOTD design specifications and general plan preparation. |

| Firm employed by: Digital Engineering | | | |
|---|---|---|---|
| Name | **Kurt Evans, P.E., FITE, FACEC** | Years of relevant experience with this employer | 30 |
| Title | Chief Executive Officer, Principal | Years of relevant experience with other employer(s) | 45 |
| Degree(s) / Years / Specialization | | BS / 1979 / Civil Engineering | |
| Active registration number / state / expiration date | | PE.0019391 / LA / Exp. 09/2024 | |
| Year registered | 1983 | Discipline | Civil Engineering |
| Contract role(s) / brief description of responsibilities | | SME for Roadway, Geometrics, Constructability Review Meets MRP No. 1, 2, 3 | |

Mr. Kurt Evans is a transportation expert with 44 years of experience in roadway design and construction. He held leadership roles in civil and transportation engineering firms across Louisiana, Texas, and Florida, overseeing project management, quality control, client relations, and contracts. His expertise spans transportation and civil engineering, program management, disaster recovery, and extensive contributions to projects like the Greater New Orleans Mississippi River Crossing No 2 Bridge and Interstate 49 Opelousas to Shreveport. Mr. Evans' career includes work on complex interstate systems, major highways, state routes, and bridges across multiple states, making him a valuable asset in the transportation field.

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 01/15 – 05/19 | **LADOTD H.0011276: New Orleans Airport Connector Road (Segment A) North Terminal Access Road, Kenner, LA**<br>Senior Technical Advisor, QAQC for design of new Access Road serving as the official entrance to the Louis Armstrong New Orleans International Airport's new North Terminal. Scope included the construction of a four-lane divided concrete roadway along existing Aberdeen Street to the Airport property. Improvements included the removal of the fire station for the installation of more improvements (lanes) in addition to what was already proposed. DE provide value engineering services resulting in a change order to the existing road construction project, requiring DE to redesign the geometry of the roadway, drainage, lighting, and traffic signal system for the installation of additional lanes south of Veterans. |
| 01/95 – 07/97 | **LADOTD SP 450.15.0008: Interstate 10 at Williams Boulevard Intersection Improvements, Kenner, LA**<br>Conceptual design of modifications to existing diamond interchange at I-10 and Williams Boulevard to convert to a semi-cloverleaf interchange. The interchange serves the urban interstate system and major urban arterial roadway crossings. |
| 03/04 – 06/13 | **Huey P. Long Bridge Improvements, Jefferson Parish DPW, Jefferson Parish, LA**<br>Principal in Charge for DE's involvement on the widening of the existing Huey P. Long Bridge crossing and reconstruction of roadway approaches and major interchanges on both banks of the river. During development of the roadway alignment, DE evaluated traffic impacts to local infrastructure and traffic operations including compilation of VISSIM traffic model to simulate future traffic conditions with the proposed improvements in place. |

**Firm Experience:**

| | | | | | |
|---|---|---|---|---|---|
| Firm name | **TriCoeur Services, L.L.C.** | | Past Performance Evaluation Discipline(s)* | Value Engineering | |
| Project name | I-49South @ Verot School Road | | Firm responsibility (prime or sub?) | Prime | |
| Project number | Project No.: H.011235.5 | Owner's name | LaDOTD | | |
| Project location | Baton Rouge, Louisiana | | Owner's Project Manager | Mr. Charles Nickel, PE | |
| Owner's address, phone, email | Value Engineering Director, LaDOTD, 1201 Capitol Access Rd, Baton Rouge, LA 70802, Ph: (225) 379-1078; Email: Charles.Nickel@la.gov | | | | |
| Services commenced by this firm | 06/23 | Total consultant contract cost ($1,000's) | 90 | | |
| Services completed by this firm | 07/23 | Cost of consultant services provided by this firm ($1,000's) | 65 | | |

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

A VE Workshop was facilitated with TriCoeur as Prime Consultant and supported by Vectura. TriCoeur provided VE Team Lead, Structural/Bridge/Geotechnical, Process Review, and QA-QC/Risk Management and efficiently collaborating with LaDOTD throughout the Value Engineering Workshop. Recommendations included alternative interchange framing configurations, phase constructions, evaluations of MSE wall, drilled shaft, and driven pile foundations, and elevated intersection performance. Review also considered constructability, vibration tolerance, and anticipated cost considerations for installations in close proximity to BNSF railway.

During the course of the VE workshop, the team developed 15 VE Alternatives and Design Suggestions. It was estimated that $15 million savings might be reasonable to expect from the implementation of these alternatives.

**Consultant Team Members**:
Ramesh Kalvakaalva, PE, CVS – VE Co-Facilitator (TriCoeur)
Les Thomas, PE, CVS - – VE Co-Facilitator (TriCoeur)
Barry P. Gahagan, PE – VE Task Manager/Structural/Bridge/Constructability Team Member (TriCoeur)
Bruce Khosrozadeh, PE – VE Bridge/Geotechnical/Constructability Team Member (TriCoeur)
Brin Ferlito, PE, PTOE – VE Planning/Traffic/Signals Team Member (Vectura)
Aileen Foley, CPA – Administrative (TriCoeur)

| | | | | | |
|---|---|---|---|---|---|
| Firm name | **TriCoeur Services, L.L.C.** | | Past Performance Evaluation Discipline(s)* | Value Engineering | |
| Project name | ILA 3213: Gramercy Bridge Painting and Rehabilitation | | Firm responsibility (prime or sub?) | Prime | |
| Project number | Project No.: H.012066.5 | Owner's name | LaDOTD | | |
| Project location | Baton Rouge, Louisiana | | Owner's Project Manager | Mr. Charles Nickel, PE | |
| Owner's address, phone, email | Value Engineering Director, LaDOTD, 1201 Capitol Access Rd, Baton Rouge, LA 70802, Ph: (225) 379-1078; Email: Charles.Nickel@la.gov | | | | |
| Services commenced by this firm | 08/23 | Total consultant contract cost ($1,000's) | 71 | | |
| Services completed by this firm | 08/23 | Cost of consultant services provided by this firm ($1,000's) | 60 | | |

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

A VE Workshop was facilitated with TriCoeur as Prime Consultant. TriCoeur provided VE Team Lead, Structural/Bridge/Geotechnical, Process Review, and QA-QC/Risk Management and efficiently collaborating with LaDOTD throughout the Value Engineering Workshop. Recommendations included alternative methods for truss span damage repairs, concrete bulb tee approach span resetting, and bent fixity rehabilitations.

During the course of the VE workshop, the team developed 21 VE Alternatives and Design Suggestions. It was estimated that $2 million savings might be reasonable to expect from the implementation of these alternatives.

**Consultant Team Members**:
Ramesh Kalvakaalva, PE, CVS – VE Co-Facilitator (TriCoeur)
Les Thomas, PE, CVS - – VE Co-Facilitator (TriCoeur)
Barry P. Gahagan, PE – VE Task Manager/Structural/Bridge/Constructability Team Member (TriCoeur)
Bruce Khosrozadeh, PE – VE Bridge/Geotechnical/Constructability Team Member (TriCoeur)
Aileen Foley, CPA – Administrative (TriCoeur)

| Firm name | **TriCoeur Services, L.L.C.** | Past Performance Evaluation Discipline(s)* | Value Engineering |
|---|---|---|---|
| Project name | I-10: LA 415 to Essen on I-10 and I-12<br>PHASE 1: West of Washington Street to Essen | Firm responsibility (prime or sub?) | Sub |
| Project number | Project No.: H.004100.5 | Owner's name | LaDOTD |
| Project location | Baton Rouge, Louisiana | Owner's Project Manager | Mr. Charles Nickel, PE |
| Owner's address, phone, email | Value Engineering Director, LaDOTD, 1201 Capitol Access Rd, Baton Rouge, LA 70802,<br>Ph: (225) 379-1078; Email: Charles.Nickel@la.gov | | |
| Services commenced by this firm | 02/21 | Total consultant contract cost ($1,000's) | 75 |
| Services completed by this firm | 02/21 | Cost of consultant services provided by this firm ($1,000's) | 38 |

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
A VE Workshop was facilitated with TriCoeur provided Bridge / Structural experience and efficiently collaborating with LaDOTD throughout the Value Engineering Workshop. The VE Workshop activities were undertaken during the week of February 08th – 12th, 2021. The subject of the study was the I-10: LA 415 to Essen on I-10 and I-12; PHASE 1: WEST OF WASHINGTON STREET TO ESSEN LANE; S.P. No. H.004100.5.

The construction cost estimate indicated that the project would be delivered at a cost of approximately $715 million.

During the course of the VE workshop, the team developed 30 VE Alternatives and 29 Design Suggestions. In addition, 29 Alternatives were thoroughly explored, and it was found that they were neither cost effective nor technically feasible. One of the goals of the VE Team was to identify opportunities through which cost savings might be realized while indicating ways in which the resulting savings might be invested back into the project to realize added value. It was estimated that between $60 and $75 million in value addition might be reasonable to expect from the implementation of these alternatives.

**Consultant Team Members**:
Ramesh Kalvakaalva, PE, CVS – VE Facilitator (TriCoeur)
Barry P. Gahagan, PE – VE Structural Team Member (TriCoeur)
Aileen Foley, CPA – Administrative (TriCoeur)

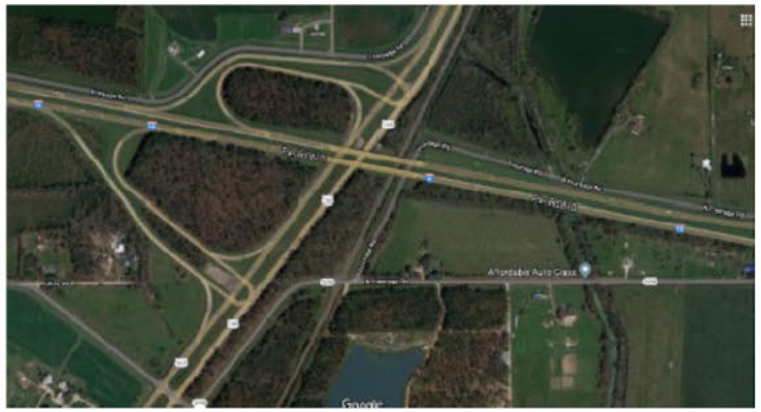
| | | | | | |
|---|---|---|---|---|---|
| Firm name | **TriCoeur Services, L.L.C.** | | | Past Performance Evaluation Discipline(s)* | Value Engineering |
| Project name | I-10 Overpass over US 165 & MP R.R | | | Firm responsibility (prime or sub?) | Sub |
| Project number | Project No.: H.002980.5 | Owner's name | LaDOTD | | |
| Project location | Baton Rouge, Louisiana | | Owner's Project Manager | Mr. Charles Nickel, PE | |
| Owner's address, phone, email | Value Engineering Director, LaDOTD, 1201 Capitol Access Rd, Baton Rouge, LA 70802, Ph: (225) 379-1078; Email: Charles.Nickel@la.gov | | | | |
| Services commenced by this firm | 05/21 | Total consultant contract cost ($1,000's) | 54 | | |
| Services completed by this firm | 05/21 | Cost of consultant services provided by this firm ($1,000's) | 38 | | |

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
A VE Workshop was facilitated by Prime with TriCoeur Bridge/Structural support and LaDOTD engagement for and efficient collaboration of the Value Engineering Workshop setting. The VE Workshop activities were undertaken during the week of May 10th – 14th, 2021. The subject of the study was the I-10 Overpass over US 165 & MP R.R; S.P. No. H.002980.5.

The construction cost estimate indicated that the project would be delivered at a cost of approximately $53 million.

During the course of the VE workshop, the team developed 17 VE Alternatives and 14 Design Suggestions. In addition, 16 Alternatives were thoroughly explored, and it was found that they were neither cost effective nor technically feasible. One of the goals of the VE Team was to identify opportunities through which cost savings might be realized while indicating ways in which the resulting savings might be invested back into the project to realize added value. It was estimated that about $4 million in cost avoidance might be reasonable to expect from the implementation of these alternatives.

**Consultant Team Members**:
Ramesh Kalvakaalva, PE, CVS – VE Facilitator (TriCoeur)
Barry P. Gahagan, PE – VE Structural Team Member (TriCoeur)
Aileen Foley, CPA – Administrative (TriCoeur)



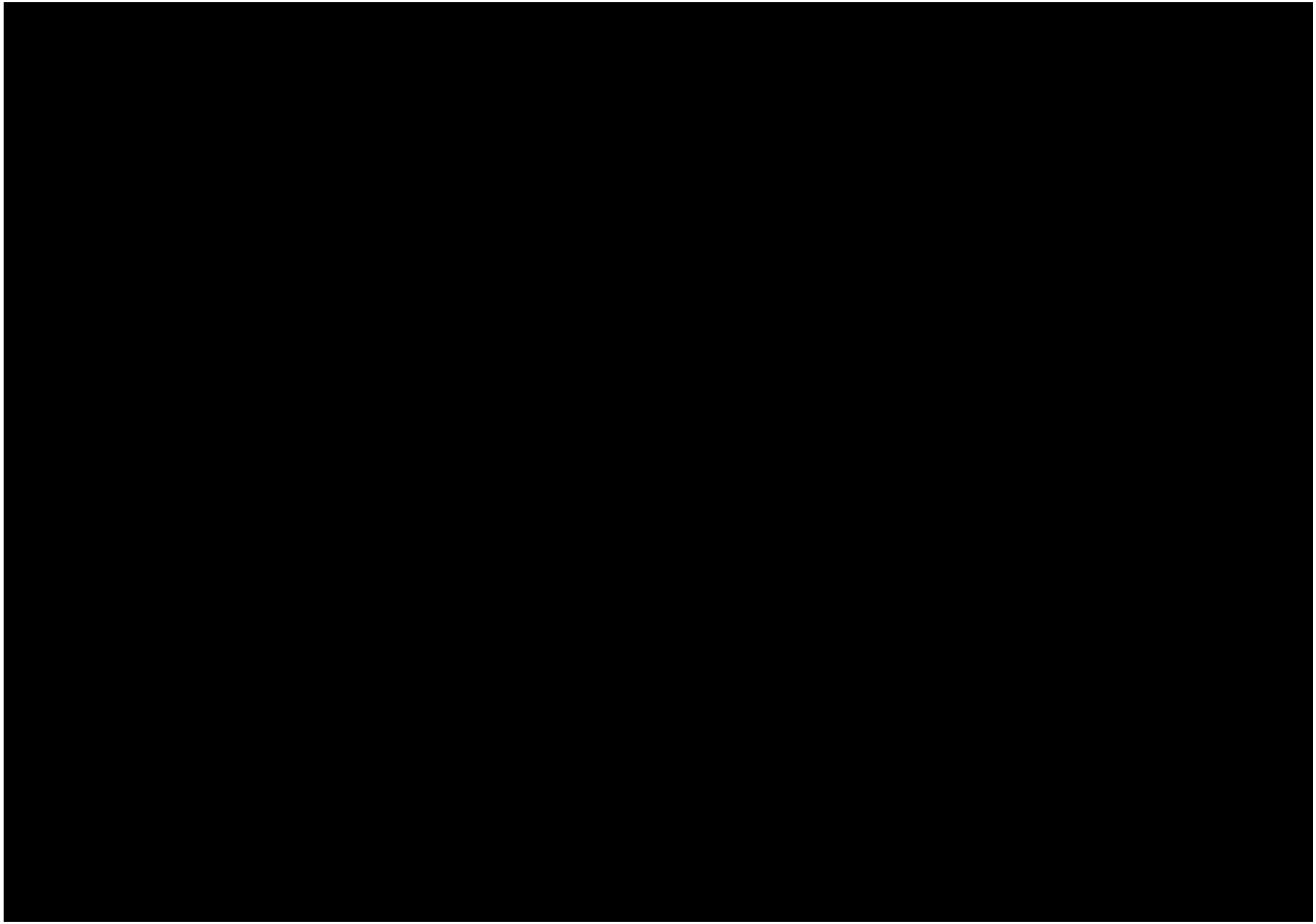
| Firm name | **TriCoeur Services, L.L.C.** | | | Past Performance Evaluation Discipline(s)* | Value Engineering |
|---|---|---|---|---|---|
| Project name | I-20 MRB At Vicksburg Overlay and Rehab | | | Firm responsibility (prime or sub?) | Sub |
| Project number | Project No.: H.012739.5 | Owner's name | LaDOTD | | |
| Project location | Baton Rouge, Louisiana | | Owner's Project Manager | Mr. Charles Nickel, PE | |
| Owner's address, phone, email | Value Engineering Director, LaDOTD, 1201 Capitol Access Rd, Baton Rouge, LA 70802, Ph: (225) 379-1078; Email: Charles.Nickel@la.gov | | | | |
| Services commenced by this firm | 10/18 | Total consultant contract cost ($1,000's) | 54 | | |
| Services completed by this firm | 10/18 | Cost of consultant services provided by this firm ($1,000's) | 8 | | |

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
A VE Workshop was facilitated by Prime with TriCoeur Bridge/Structural support and LaDOTD engagement for and efficient collaboration of the Value Engineering Workshop setting.at the LaDOTD Headquarters in Baton Rouge along with a site visit to Vicksburg. The VE Workshop activities were undertaken during the week of October 15th - October 19th, 2018. The subject of the study was the I-20 MRB At Vicksburg Overlay and Rehab", State Project H.012739.5; Federal Project H012739.

The construction cost estimate indicated that the project would be delivered at a cost of approximately $44 million.

During the course of the VE workshop, the team developed Twenty (20) Design Alternatives (some mutually exclusive) that offer an estimated four million dollars ($4 Million) in potential first cost value additions to be considered for implementation. These alternatives were selected as being reasonable considerations for incorporation in the design. There were also Nine (9) Design Suggestions that offer measures to simplify construction, provide various means for reducing costs (in these cases the savings are hard to quantify), may help to improve the operational requirements for the facility, and reduce the construction duration. One of the goals of the VE Team was to identify opportunities through which cost savings might be realized while indicating ways in which the resulting savings might be invested back into the project to realize added value in addition to mitigating risks.

**Consultant Team Members**:
Ramesh Kalvakaalva, PE, CVS – VE Facilitator
Barry P. Gahagan, PE – VE Structural Team Member (TriCoeur)
Aileen Foley, CPA – Administrative (TriCoeur)



Prime consultant name**: TriCoeur Services, L.L.C.**

| Firm name | Vectura Consulting Services, LLC | Past Performance Evaluation Discipline(s)* | CE&I |
|---|---|---|---|
| Project name | EBR Computerized Traffic Signal, PH VB | Firm responsibility (prime or sub?) | Sub |
| Project number | H.007160 | Owner's name | DOTD |
| Project location | East Baton Rouge | Owner's Project Manager | Desmond Sam, PE |
| Owner's address, phone, email | 8100 Airline Highway, Baton Rouge, LA 70815, (225) 231-4123, Desmond.Sam@LA.GOV | | |
| Services commenced by this firm | 01/21 | Total consultant contract cost ($1,000's) | 603.989 |
| Services completed by this firm | current | Cost of consultant services provided by this firm ($1,000's) | 93.368 |

Vectura is a sub-consultant to provide traffic signal equipment inspection for 24 traffic signals under the following scope:

1. Signal Equipment Inspection (2 visits per intersection), Tracking the Sampling and Testing of required Traffic Signal Materials / Attend and Review Fiber Optic Test Results
2. Coordinate Review and Approval of all Shop Drawings
3. Provide Traffic Signal Support Services / Troubleshoot traffic signal equipment related problems such as foundation / utility conflicts / Field visits (10 months)
4. Assist in preparing Change Orders for DOTD / City Parish (2 Separate Forms)
5. Attend Monthly Progress Meetings Assist with Monthly Progress Meeting Agenda & Minutes (10)
6. Compile As-built Plans from Contractor
7. Final Inspection Field Visit to all intersections / Assist with developing punch list / Final Field Visit verification

| Firm name | **Vectura Consulting Services, LLC** | Past Performance Evaluation Discipline(s)* | Traffic & CE&I |
|---|---|---|---|
| Project name | Belle Chasse Bridge & Tunnel Replacement PPP | Firm responsibility (prime or sub?) | sub |
| Project number | H.004791 | Owner's name | DOTD |
| Project location | Belle Chasse, LA | Owner's Project Manager | Nickolas Olivier, PE |
| Owner's address, phone, email | 1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1133, Nicholas.olivier@la.gov | | |
| Services commenced by this firm | 04/19 | Total consultant contract cost ($1,000's) | Unknown |
| Services completed by this firm | current | Cost of consultant services provided by this firm ($1,000's) | 211.890 |

Vectura is providing the traffic engineering services for the Belle Chasse Bridge & Tunnel Replacement Project for improvements along LA 23. Vectura is responsible for the following tasks:

1. Preliminary and final traffic studies
2. Temporary and final traffic signal plans
3. Assist the Prime with Traffic Management Plan (TMP)
4. Response to request for information (RFI's)
5. As-built plans for the traffic signals

## Approach and Methodology:

**TriCoeur, LLC** is pleased to submit this Technical Proposal to provide Statewide Value Engineering (VE) Support Services to LaDOTD (Contract Nos: 4400027920 - 4400027921). For over a decade **TriCoeur** has offered Design services to the LaDOTD, has added Value Engineering (VE) & Cost/Schedule/Risk Assessment (CSRA) as a core service to various clients nationwide and, specifically, to LaDOTD. We maintain a robust team with Digital Engineering and Imaging, Inc. (DEII) and Vectura Consulting Services, LLC, our familiar partners on similar transportation design and VE projects. The track record of a significant number of successful VE Studies by the **TriCoeur** Team, associates, and personnel to date brings the advantage and reliability to support LaDOTD again in maintaining and strengthening its VE Program.

**Camaraderie**: **TriCoeur** personnel have worked with **Digital Engineering** and **Vectura** personnel in the past and, in-turn, interacted with LaDOTD personnel during similar project executions. Our inter-resource working relationships benefit performance as **teamwork** is critical to the **success of these VE tasks**.

**AWARENESS OF PROJECT ISSUES**

Understanding our Transportation Infrastructure serves a critical component in the economic health of Louisiana and our nation. Smart growth and development of improvements are necessary. The geographic location of the State makes it a critical region to keep the infrastructure lifeline of the Nation operational. The **TriCoeur** Team understands that meeting infrastructural demand requires innovations and judicious maintenance of project budgets, realizing maximum value from allocated resources. This is what we do best - **help clients get the most out of each dollar spent**.

**Scope of Services**

This contract will involve applying VE principles on Transportation Projects, Department Standards, Specifications, Processes and may include Training of personnel. Tasks may also include performing CSRA, should the magnitude of the project exceed the LaDOTD/FHWA threshold on construction value. Our execution of the VE tasks will adhere to LaDOTD Standards and SAVE International® promulgated VE principles including the **Six-Step Job Plan**. Our execution of CSRA adheres to the FHWA Cost Estimate Reviews (CER) using their Major Project Program Cost Estimating Guidance, incorporating the best processes into the workshops we **facilitate**. We are aware that Projects subject to VE may be of the design-bid-build (at the Stage 0 Feasibility, Stage 1 Development of Design Alternatives, or During Stages 2 & 3) or design-build types. Also, we have Facilitated VE & CSRA Workshops as: i) Stand Alone VE Study; ii) Stand Alone CSRA Study; and iii) Combined VE & CSRA Study. Our Facilitators have led VE & CSRA studies with teams that were comprised of: 1) Personnel appointed by the Department; 2) A combination of Personnel appointed by the Department and provided by the Consultant; 3) All Personnel provided by the Consultant.

**VE Training (optional):** For VE Workshops, we have always made the effort to educate the Team Members on the Six-Step Job Plan to generate their interest in the process, thereby ensuring productivity. Our VE Facilitators are SAVE International® Certified VMF1 and VMF2 trainers, have conducted numerous Training Workshops and can provide this opportunity to LaDOTD Team Members as part of a VE Study or standalone sessions. We can also guide Team members through the process of VMA & CVS certification, if desire and provide **Team Leader** training.

**APPROACH TO PROJECTS**

**TriCoeur** delivers the best results for our clients by sheer merit and the passion to exercise our competencies. With this underlying principle, our vision has realized success, as testified by numerous satisfied repeat clients nationwide. This passion, with a combination of **aptitude & attitude**, will bring added value to LaDOTD on this Value Engineering contract. The TriCoeur Team Difference is highlighted above.

**THE TriCoeur TEAM DIFFERENCE**

1. **Criteria for Team Member selection**
2. **Emphasis on Function Analysis**
3. **Innovative Analytical Methods**
4. **Wealth of resources for flexibility**
5. **Capable of forming multiple teams at short notice**
6. **Emphasis on Function Analysis**

**A. APPROACH**

**Experienced Lead Facilitator(s):** Ramesh Kalvakaalva, brings 32+ years of experience not only inclusive of Facilitating VE and CSRA but also of his involvement on various Roadway/Bridge/Rehabilitation projects from Concept through Design & Construction adhering to various DOT's **Plan Development Processes**. The supporting VE Leads, **Charles McDuff** and **Les Thomas** have similar backgrounds on DOT Projects nationwide. All dedicated VE Leads are nationally recognized and have received awards and recognition for their work: ACI Georgia Chapter Award for Ramesh's innovative Bridge Design, Charles' **Fellowship** in SAVE

International® and David's FHWA award for VE and Cost Risk Assessment on a GDOT project. Adding depth to the VE Leadership is Les Thomas, to be called upon as required. While all of them are well rounded in experience, their assignments to Facilitate VE Studies will be tailored to their specific expertise on **Roadway, Bridge, Traffic and/or Construction** sensitive projects. **TriCoeur's** focused VE and CSRA Facilitation practice has provided these services to numerous transportation clients such as the LaDOTD,and including: FDOT, GDOT, TxDOT and CDOT.

The **TriCoeur** team's approach to VE studies is founded on the premise that the goal is to ***Improve Value***, which does not always translate to reduced cost. This improvement results from professionally facilitated application of the VE Job Plan, to optimize the relationship between **Cost, Function, and Quality** to meet the client's and stakeholders' goals and objectives. All VE studies will be conducted in accordance with standards established by **SAVE International®**, while also meeting the specific requirements set forth by LaDOTD and/or FHWA. This approach has proven to be an effective tool in achieving VE goals of numerous agencies.

We bring a highly **effective VE process** and the most technically qualified staff to focus on identifying alternatives related to **specific project issues**. Identifying and evaluating many ideas to select the best, reduces costs, minimizes ROW acquisitions, eliminates utility conflicts, expedites delivery, and minimizes environmental impacts, without compromising **safety and quality**. Our **facilitators** are highly effective at executing this process due to their mastery of the subjects.

As staunch believers and supporters of the Six-Step VE job plan, **TriCoeur**'s CVS Facilitators are best prepared to customize the process for a specific VE study. Each project has its own unique goals, objectives, constraints, and challenges, and various stakeholders driving those interests. These distinctive characteristics often demand **adapting VE tools**. In the past, where competing interests were strong influences, we created an **evaluation matrix** for the team to measure each idea relative to both the function(s) supported and the effect(s) on **performance criteria**.

The experience of our Facilitators allows us to evaluate projects that may be suitable for an Alternate Design/Construction method. Additionally, we encourage the VE Team to incorporate tried and tested **innovations** in Design/Construction methods from individual experiences. We keep abreast of the state-of-the-art and ever evolving infrastructure industry standards. High Risk factors requiring advanced mitigation or other potential constraints are focused upon. Projects in dense Urban areas with premium property acquisition requirements are evaluated by our Right-of-Way experts for Alternate acquisition techniques. MOT Is another challenge that our VE Team Constructability experts evaluate and help overcome.

**TriCoeur** presents results in a fashion that encourages all stakeholders to consider alternatives as tools crafted specifically to help achieve desired project goals including cost containment, minimization of life cycle costs and **enriching functionality** and **end user experiences**.

## B. - METHODOLOGY

I**nnovative techniques** and standardized templates are utilized at various stages of the six-step Job Plan streamlining VE Workshop execution and capturing the VE Process in a usable **VE Report**. All processes are made interactive, utilizing visual aids to build camaraderie within the Team during VE Workshops to ensure better results.

**1.) Information Phase: Cost Models** are developed during **Pre-Study** efforts by the Facilitators along with Key Project features shared with the VE Team. Information is captured on Flipcharts for continuous display during Workshops. **Site visits** or the use of **Google Earth Pro** for a "fly by" view of the project alignment with provided KMZ files as part of this phase.

**2.) Function Analysis Phase:** By far the most critical process in the six-step Job Plan, it serves as a powerful communications tool that enables VE participants to focus on key project elements. Developing a **Function Analysis System Technique (FAST)** diagram, or **Function Cost/Worth Matrix**, the underlying logic helps the VE Team reach a consensus on project goals and objectives. Our process enables the team to brainstorm alternative ways to ***perform functions***, as opposed to alternative ways to design a project element. Other **analytical methods** (paired comparisons, matrix evaluations) may also be employed. **Qualitative or quantitative risk analysis** is an additional tool to help identify high risk functions, and mitigation challenges when appropriate.

**3.) Creative Ideas Phase:** The large volume of Creative Ideas that emanate from "**Out of the Box**" brainstorming during this session are captured on flip charts or recorded on our electronic templates. The Design experience of our Facilitators is a great advantage here.

**4.) Evaluation Phase:** The Team's Evaluation of the Creative Ideas, using a Ranking Scheme by consensus, or weighted average based on FHWA criteria (Safety; Operations; Construction; Environmental), is captured on the flip charts and template listing the Creative Ideas.
**Mid-point Review**: A meeting with the owners and stakeholders is usually performed at this time as an additional vetting process to ensure that the VE Alternatives are within the project constraints.

**5.) Development Phase:** Customized Word and Excel templates enable the Team members to efficiently develop the highly ranked Creative Ideas (Alternatives/Design Suggestions). **Opportunities & Risks** are clearly described along with technical narratives, illustrations, capital, and life cycle costs developed for comparison with the original Design. The Cost Avoidance (Savings) or Value Addition are clearly listed on the documents.

**6.) Presentation Phase:** The Team presents findings in an informal **Outbrief** to the owners and stakeholders on the last day of the VE Workshop. Concise PowerPoint templates are used to present the Alternatives. The Quantitative (Alternatives) and Qualitative (Design Suggestions) are presented in a Summary of Results table.

The streamlined execution of the VE Workshop enables us to deliver a Draft VE Report within a short duration, usually 7 days following conclusion of the VE Workshop. The multi-step **QA/QC** process that the deliverables undergo is mentioned in the following pages.

**C. Technical Approach**

The **TriCoeur Team's personnel** delivered more than16 VE Studies for LaDOTD between 2012 and 2022. Projects that were the subject of VE included Urban Arterials, Rural Corridors, Interstates, Steel Bridges, Bascule Bridge, and Resurfacing LaDOTD VE Studies the same Team delivered in the past 10 years that include: 1) Almonaster Blvd over IHNC Rolling Lift Bascule Bridge Replacement; 2) I-10 Corridor Improvements from Lafayette to Atchafalaya Bridge; 3) I-10 Corridor Improvements from East Baton Rouge to Gonzalez; 4) LA 1 Phase 2 from Leesville to Golden Meadow; 5) LA 1 – I-10 Connector; 6) Causeway Boulevard Improvements; 7) McArthur Interchange Reconstruction From Harvey Canal to Manhattan Boulevard; US90 WB, Jefferson Parish; 8) *I-10: LA 415 (East of Mississippi River Bridge) to Essen Lane on I-10/I-12spllit; 9) -10 Overpass over US 165 & MP R.R.*.

**TriCoeur**'s CVSs emphasize **pre-workshop preparation,** including meeting with workshop sponsors and, if appropriate, stakeholders to define goals and objectives. They have a demonstrated ability for listening to all who participate in their workshops, and assimilation into meaningful and useful reports. Our facilitators represent **third party neutrality**, providing the opportunity for everyone involved to have an equal voice, promoting active involvement of workshop participants, as opposed to providing answers for them, so that they leave the session with a sense of **pride and ownership of the results**.

**Team Approach:** Our Facilitators guide VE Team members through a **respectful review** of the design as delivered by the project design team, in a manner that conforms to the VE job plan. From the outset of a VE effort, our CVSs will partner with LaDOTD, its stakeholders, and its project design team to facilitate the most favorable achievement of project goals.

**Key Considerations for Assembling a VE Team:**

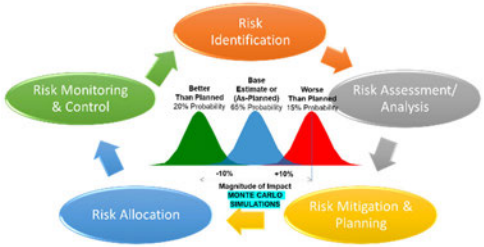
- **Job Knowledge. T**echnical skills and relevant experience suited to the subject of the VE study.
- **Availability.** Offices near LaDOTD rendering easy team mobilization.
- **Team Refreshment.** Constructive rotation of team to keep the creative processes open and not repetitive of previous efforts.
- **Lack of Bias.** The prospective team member must not have significant ties to the ongoing design process.
- **Practical.** Ability to deploy the latest practical technology.
- **Life-cycle Savvy.** Awareness of basic life-cycle cost concepts, including cost of ownership.


**Risk Registers:** Our Facilitators create **Risk Registers** when appropriate to identify risks to the project components or Functions. This serves as a guide to the VE Team helping to identify and mitigate Risks via Alternative Design or Construction techniques.

**Cost & Schedule Risk Analysis (CSRA):** Our VE Facilitators are **FHWA** approved to conduct CSRA Workshops and are well versed in utilizing the **Monte Carlo** modeling for risk reviews, Oracle **Crystal Ball** and customized resources for modelling and generating reports.

**PROJECT MANAGEMENT**

**A. Project Management Approach**




Our designated Contract/Task Order Manager, Barry Gahagan, has an intimate knowledge of LaDOTD's VE Program from past and current experience. He will be in constant communication with the State VE Coordinator (VEC) to ascertain Fiscal Year VE Study requirements to minimize Team response time. Upon being awarded a Task Order, Barry can respond to VE workshop requirements within 5 days. He will coordinate with the VEC to confirm the disciplines, experience, and qualifications of participants, ensuring necessary resources are available to address the technical issues. Our Facilitators will ensure appropriate project documents are available for the Team's use during the VE Workshop.

**Resource Allocation**: We are committed to dedicating the strongest local technical staff to support LaDOTD's VE studies. Our key VE Team members have over 50% availability. Given the depth and strength of our resources, from Facilitators to SMEs, we would be able to easily form multiple teams to respond to simultaneous or back-to-back VE Studies.

**Schedule Management:** From Task Order initiation through VE Report deliverables, Barry will ensure adherence to a set schedule. He will also ensure that appropriate VE Team Member commitments are made through continuous communications with the TriCoeur Team members and coordinate with the LaDOTD VEC.

TriCoeur can conduct the VE studies at LaDOTD facilities, project site, off-site locations, design team's office, our local offices, or via **Virtual Video Conference** based on the preference and convenience of the LaDOTD. Our PM and identified VE Facilitator will coordinate all logistics of the VE study. Pre-VE workshop and post-workshop activities will primarily be performed from TriCoeur office.

**STAFFING**

**Local Resources** TriCoeur has committed to **staffing this team of strong technical experience** with the goal of **improving the efficiency and performance** of our VE team. Prior LaDOTD project experiences allow our team to **integrate with LaDOTD's VE Program quickly and effectively**.

**B. Staffing Experience on Similar Projects**

**Resources**: The key to a VE contract of this nature is having an ample roster of qualified and experienced personnel in the disciplines needed, so multiple qualified teams can be staffed in the required time frames, particularly for concurrent studies. TriCoeur's experienced staff is augmented by DEII's capacity and by Vectura's depth and respectability in their field of traffic and ITS.

**Resources for multiple VE Studies**

**The TriCoeur Team's** PM, and **nationally recognized/award winning** Facilitators will monitor the execution and delivery of every Task Order through completion.

SECTION 19

**Workload:**

For all contracts where a firm on the team is a prime consultant or sub-consultant and where **a)** the consultant selection was made by DOTD, and **b)** a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

1) one of the team's firms is responsible for the performance of the work;
2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
3) the work has not yet been performed and invoiced; and
4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.
List only the portion of the fees attributable to firms on the team.

| Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE | Past Performance Evaluation Discipline(s) * | Contract Number and State Project Number | Project Name | Remaining Unpaid Balance** |
|---|---|---|---|---|
| TriCoeur Services, L.L.C. | Bridge | 4400013405<br>H.013098.5 | Off System Bridge Program, Vernon Parish<br>Jim Cryer Road Bridge, Stage 3 – Part IV Final Plans | $9,228 |
| TriCoeur Services, L.L.C. | Bridge | 4400013386<br>H.013122.5 | Off System Bridge Program, Ouachita Parish<br>Sligo Road Bridges, Stage 3 – Part IV Final Plans | $7,668 |
| TriCoeur Services, L.L.C. | Bridge | 4400025191<br>H.015051.5 | Off System Bridge Program, Plaquemines Parish<br>Martin Lane over Drainage Canal | $94,231 |
| TriCoeur Services, L.L.C. | Other (VE Study) | 4400024148<br>H.012066.5 | Contract for Value Engineering Services TO2<br>LA 3213: Gramercy Bridge Rehabilitation | $1,976 |
| TriCoeur Services, L.L.C. | Other (VE Study) | 4400024148<br>H.014266 | Contract for Value Engineering Services TO3<br>I-210 Widening | $96,616 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400019870<br>H.013722 | Morgan City Sidewalks and Shared Use Path | $219,957 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400019870<br>H.013716 | US 167: Camellia Blvd. - Churchill Dr. (LAF) | $101,218 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400019870<br>H.011196 | Lake Charles SRTS Proj. - Barbe Elementary | $20,336 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400015487<br>H.015010 | Local Road Striping & Signing (Bossier) | $43,303 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400015487<br>H.013094 | Broad St. - Read Blvd. Ped Improvements | $82,924 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400019870<br>H.013719.5 | US61 @ I-10 EB Off Ramp Ped Impr (NO) | $130,281 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400019870<br>H.013753.5 | LA 428 Gen DeGaulle - Old Behrman | $170,579 |

| | | | | |
|---|---|---|---|---|
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400015487<br>H.015010.5 | Local Road Striping & Signing, Bossier, LA | $43,303 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400015487<br>H.015198.5 | S. Carrollton Ave. Ped & Bike Impr., New Orleans, LA | $3,534 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400019870<br>H.015203.5 | Pinhook @ Verot Pedestrian Improvements, Lafayette, LA | $3,808 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400015487<br>H.015210.5 | Judge Tanner Blvd Sidewalk, St. Tammany Parish, LA | $3,593 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400015487<br>H.015211.5 | Bugess Ave Sidewalk - Phase 4, Walker, LA | $3,683 |
| Digital Engineering & Imaging, Inc. | Other (Safety Program – SRTPP) | 4400019870<br>H.015487.5 | NOLA Ped Safety Improvements (Phase2) | $819,534 |
| Vectura Consulting Services, LLC | Traffic | 4400017293<br>H.010616 | I-20: LA 544 Overpass Replacement | $74,429 |
| Vectura Consulting Services, LLC | Traffic | 4400005484<br>H.005168.2 | New Orleans Rail Gateway Jefferson Highway EA | $14,200 |
| Vectura Consulting Services, LLC | Traffic | 4400005484<br>H.005168.2 | New Orleans Rail Gateway Avondale EA | $123,988 |
| Vectura Consulting Services, LLC | CE&I | 4400020018<br>H.007160 | EBR Computerized Traffic Signal, Ph VB | $36,576 |
| Vectura Consulting Services, LLC | Traffic | 4400023943<br>H.004791 | Belle Chasse Bridge & Tunnel Replacement PPP | $14,740 |
| Vectura Consulting Services, LLC | Traffic | 4400021519<br>H.012030.5 | KCS RR Overpasses HBI | $2,001 |
| Vectura Consulting Services, LLC | ITS | 4400016364<br>H.011504.5 | Alexandria ITS Phase 2 | $14,305 |
| Vectura Consulting Services, LLC | ITS | 4400017922<br>H.012845.1 | Connected & Autonomous Vehicles (C/AV) Team and Working Group Support | $16,932 |
| Vectura Consulting Services, LLC | Traffic | 4400024187<br>H.015504 | CCC Decorative Lighting | $9,110 |
| Vectura Consulting Services, LLC | ITS | 4400020058<br>H.011507.1 | Monroe Phase 3 SEA | $37,461 |

DO NOT SUM

* The **only** past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify). If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.
** Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

Prime consultant name: **TriCoeur Services, L.L.C.**

## **Certifications/Licenses:**

CVS & VMA (formerly AVS) licenses of key personnel.

**Ramesh Kalvakaalva, PE, CVS**


**Charles R. McDuff – CVS-Life**

[redacted] **QA/QC Plan:**

**[redacted]. Sub-consultant information:**

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

| **Firm Name (Name must match as registered with Louisiana's Secretary of State)** | **Address** | **Point of Contact and email address** | **Phone Number** |
|---|---|---|---|
| Digital Engineering & Imaging, LLC | 527 W. Esplanade Ave., Ste. 200<br>Kenner, LA 70065 | Frank Liang, P.E., fliang@deii.net | 504.468.6129 |
| Vectura Consulting Services, LLC | 8000 Innovation Park Drive<br>Baton Rouge, la 70820 | Brin Ferlito, PE, PTOE<br>Email: bferlito@vecturacs.com | 225.223.6685 |

SECTION 23

[redacted] **Location:**

[redacted]

[redacted]