

I-85 at I-385 Wall Improvement Design-Build Project

Project ID P042302

Greenville County

Submitted: February 26, 2024

Submitted To:



Submitted By:



CAROLINA
Transportation
Engineers &
Assoc., PC





3.2 INTRODUCTION:

Dane Construction, Inc. (Dane) will be the Contracting Entity, responsible for the successful and safe delivery of the I-85 at I-385 Wall Improvement DB Project in Greenville County (Project). Dane has enlisted the design expertise and experience of Carolina Transportation Engineers and Assoc, PC (CTEA) to serve as Lead Designer, responsible for the overall design. Dane has been in business for over twenty-five years and CTEA is celebrating eight years of successful project delivery in SC. Derek Staton, the Design Manager, has worked on projects with Dane for their 25-year history, including the design of structures, retaining walls, concrete flat work and maintenance of traffic – all like the anticipated scope of this project. Dane and CTEA visited the site and each wall location to ensure our team has all the resources and specialists needed for the project. We reviewed key site features, issues and constraints as discussed with SCDOT at initial team meetings.

Unique ID	Contracting Entity: Dane Construction, Inc. (Corporation) F37NLYCMWYP8	Lead Designer: Carolina Transportation Engineers & Associates, PC NKE8MYLPKCV6
	Contact / Managing Office & Lead Contractor Adam Lee Holcomb, PE, President 280 Mooresville Boulevard Mooresville, NC 28115 (704) 664-5042 (o) (704) 533-0070 (m) Adam@DaneConstruction.com	Derek Staton, PE President 3600 Arco Corporate Drive, St 135 Charlotte, NC 28273 (980) 722-6065 derek.staton@Carolina-TEA.com

Dane and CTEA commit Key Individuals to this Project to the extent necessary to meet SCDOT's quality and schedule expectations. These Key Individuals are available to the Project for the duration of the Project.

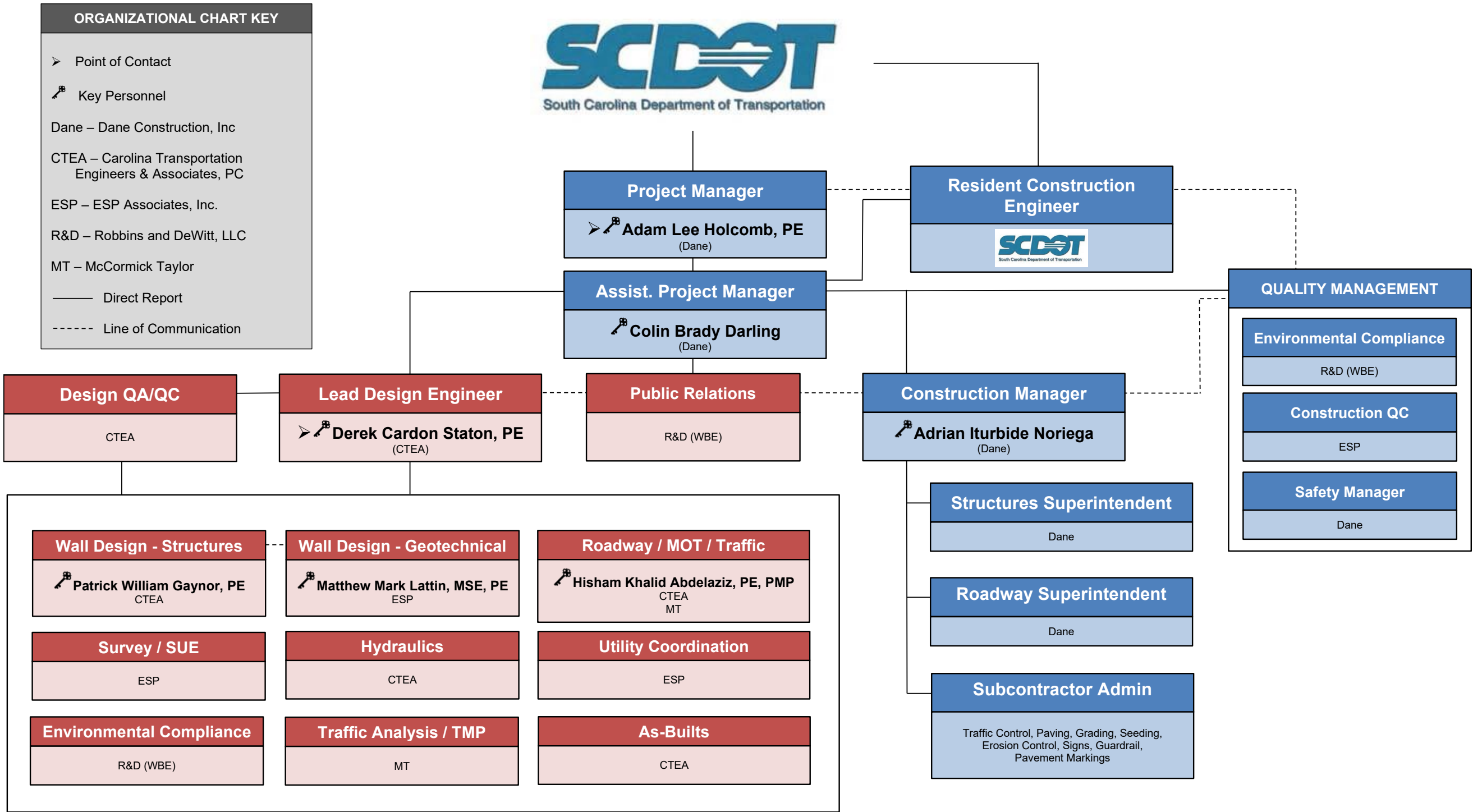

Adam Holcomb, PE, President
Dane Construction, Inc.


Derek Staton, President
Carolina Transportation Engineers & Assoc. PC



3.3 TEAM STRUCTURE AND PROJECT EXECUTION: Adam and Derek are the Presidents of their respective companies with the full authority to make any decisions. This unique situation allows design and construction decisions to be made immediately and with full support of the companies. Adam, assisted by Colin, will lead the overall project and will contract with SCDOT. Derek will lead the design, permitting and construction engineering services. Adrian will lead construction.

3.3.1 Organizational Chart, Team Structure and Team Integration



Functional Relationships: Adam will be responsible for all aspects of the design and construction of the project, will report to SCDOT and will be involved from conception to final delivery. Derek will report to Adam and be the primary point of contact for design and permitting. Derek will co-locate at Dane's office during plan development and will coordinate with SCDOT for design reviews and project documentation. Assistant Project Manager, Colin Darling, will report to Adam and assist in the day-to-day management of the project. Construction Manager, Adrian Noriega, will manage construction activities and will be the primary contact with the SCDOT Resident Construction Engineer.

Function	Integration	Responsibilities
Executive Management Adam Holcomb, PE Derek Staton, PE	PM and LDE are Presidents of their respective companies Full authority to act on behalf of their companies Entire Team is working at the direction of Executive Management	Oversight and Accountability of the Team Issue Resolution
Project Manager Adam Holcomb, PE	Point of contact for SCDOT Reports directly to SCDOT Participation in weekly design meetings Coordination w/ QC team for design/construction Project controls to assure quality and success of project	Project delivery Full authority to make final decisions for the D-B Team Lead weekly construction status meetings Available as requested by SCDOT
Asst. Project Manager Colin Darling	On-site and fully dedicated to the project. Reports to the PM. Integrated into design via weekly design coordination meetings Provide input on construction Means & Methods and schedule. Weekly coordination w/ QC leaders for design/construction.	Daily communication with SCDOT and construction team. Coordinate and schedule construction activities. Attend design coordination and construction status meetings. Coordinate schedule and delivery of design submittals. Manage project risk.
Lead Design Engineer Derek Staton, PE	Serves as the design point of contact Reports to PM team Integrated with PM team to facilitate constructability	Responsible for all aspects of design Coordination of design subconsultants Attends all design meetings Adherence to design QC plan Adherence to design schedule
Construction Manager Adrian Iturbide Noriega	Reports to PM team Involved throughout pursuit to ensure constructability in design Will have a superintendent on site for all construction activities	Responsible for all aspects of construction, workload management, work sequencing and site access. Responsible for scheduling equipment and personnel Attends all construction meetings Responsible for subcontractor performance Continuous coordination with Construction QC

Previous Teaming History: CTEA has provided design services to Dane for our eight years in business. Additionally, Derek has served Dane during their entire 25-year existence. Our relationship includes a DB project for a new roadway and bridge over a rail yard for Duke Energy where Derek was lead designer and Adam was the Project Manager (2007), many temporary work trestles, temporary bridge foundation designs, reinforced concrete culvert designs, headwalls, and countless retaining walls. Derek and Pat have designed over a dozen recent retaining walls for Dane Construction and their sister company Concrete Matters (share the same ownership, office space, equipment and personnel) including a facing for a soil nail wall on I-485 in Charlotte, NC. For each of the projects identified, our Key Individuals and other team members performed the same role as identified for this project.

PROJECT DESCRIPTION	Dane Construction	Carolina TEA	Adam Holcomb	Derek Staton	Colin Darling	Adrian Noriega	Patrick Gaynor	Matthew Lattin	Hisham Abdelaziz	ESP	McCormick Taylor	R&D (Heather)	CONTACT
I-485 Outer Loop DB, Charlotte NC Bridge construction and install a concrete facing on existing soil nail walls. 2023	X	X	X	X	X	X	X						Lee Bradley, Blythe Construction, Chief Estimator lee.bradley@blytheconstruction.com 704-622-5313
Bundcome Road Bridge Repair, Union County Bridge Repairs over Padgetts Creek & Contractor design services. 2023	X	X	X	X			X						Marcus Mathis, SCDOT, RCE mathismw@scdot.org 864-489-5760
Northgate Wall, Mecklenburg County CIP gravity wall for a development project. Wall detailing included spanning an existing RCBC structure. 2021	X	X	X	X			X						Chris Champion, CK Contractors & Development, VP cchampion@ckcdllc.com 704-718-1368
South Emerson CIP Wall, Cabarrus County Multiple CIP cantilevered walls for varying heights, including sections with micropile foundations. 2023	X	X		X			X						Graeme McCulloch, Blythe Development, Project Manager gmcculloch@blythedevelopment.com 704-301-7900
US 176 Bridge Replacement, Orangeburg County Framing and formwork for flat slab bridge. Additional construction services provided. 2021	X	X	X	X	X	X	X						Josh Quattlebaum, PE, SCDOT, Bridge Const. Engr. quattlebB@scdot.org 803-737-2630
Bundle 16 DB, Pickens County Structural design, MOT, Roadway Design, Hydraulic Design, Geotechnical Design, Permitting and Public Involvement for 5 bridge replacements in Pickens County. Ongoing		X		X			X	X	X	X	X	X	Michael Pitts, SCDOT PM pittsme@scdot.org 803-737-2566

3.3.2 Project Resources, Strategies, and Execution

Project Resources: Dane has the financial / bonding capacity, construction crews and equipment available immediately to bid, manage and construct this project. One construction crew will be continuously on this project to ensure timely completion. If schedule demands are more condensed, additional crews will be provided. Dane employs over 75 operations employees, with eight crews working in a 150-mile radius of Greenville. We have 13 total crews in NC and SC. Our equipment fleet includes 45 relevant pieces of heavy equipment (cranes, rubber-tired backhoes, pile hammers, vibratory hammers and forklifts as necessary for this project) and we have agreements in place with heavy equipment rental companies with unlimited equipment to supplement our fleet.

The design team also has the resources and abilities to complete this work in a timely fashion. Our combined team brings local design professionals covering every anticipated design discipline. Our roadway design and hydraulics staff are recent hires and are 100% available for this assignment. Pat Gaynor, our structures lead, is also 100% available for this work.

Dane and CTEA will self-perform critical aspects of the project as shown.

Design subconsultants on the team include ESP Associates for geotechnical design, survey, utility coordination and construction QC, Robbins and DeWitt for public involvement and McCormick Taylor for Traffic Analysis. Subcontractors will be selected for the project during the pursuit.

STRATEGY FOR IMPLEMENTATION OF RESOURCES		
Self-Performance	Construction Work Item	Primary
	Project Management	Dane
	Roadway and Wall Preparation	
	Wall Construction	
	Construction Management	
	Design Work Item	Primary
	Design Management	CTEA
	Quality Control Reviews	
	Structure Design	
	Roadway Design	
	Maintenance of Traffic	
	Hydraulic Design	

Key Tasks: The Dane / CTEA Team identifies the following items as key to the successful completion of this project:

Key Task	Description	Dane / CTEA Benefit
Separation of proposed wall facing from existing wall	To reduce liability and therefore project costs the new wall facing will be designed independent of existing walls to the maximum extent practical.	Utilize SCDOT provided sections as a basis for design. Additional design will be performed to investigate additional separation.
Make wall facing continuous	To ensure a complete, and visually consistent wall facia, the proposed wall under Roper Mountain Road will be constructed in front of the existing wall, including the portion already detailed with ashlar-stone precast concrete panel finish.	Concept provided to SCDOT at initial design concept meeting
Minimize lane closures	I-385 ramp lanes may need to be closed to construct walls under Woodruff Road.	We will explore temporary traffic patterns and optional wall designs to determine optimum design and construction solutions. We will perform work behind barrier utilizing shoulder closures when possible or perform work from adjacent parallel roadways to reduce impacts.
Use precast elements	To expedite construction, especially under Woodruff Road, where MOT is most critical, precast elements will be utilized to the maximum extent possible.	Dane and CTEA will design barriers, moment slabs, wall panels, coping and other precast elements.
Evaluate Stopping Sight Distance (SSD)	Along ramp from I-385 SB to I-85 NB.	Restriping of the lanes may be necessary, or a design exception may be requested if new wall facia reduces required SSD.
Design for constructability	Pile panel walls constructed under existing structures (sign structures and bridges).	Wall will be designed / constructed such that panels can be inserted into the walls without access from above.
Identify Utility Conflicts	Locate utilities under, over and around proposed walls that could conflict with temporary shoring, proposed wall designs, or construction access.	Relocate utilities as necessary, or when possible, vary the design to avoid conflicts.
Analysis of Traffic	Perform operational and capacity analyses to evaluate impacts due to any proposed temporary or long-term lane closures and potential traffic re-routing.	Traffic signal timings will also be evaluated as necessary based on any proposed temporary detours or traffic distribution as a result of work zones.

Geographic Location: Both Dane and CTEA corporate headquarters are in the Charlotte area. CTEA's Easley office is located 20 minutes from the project site and SCDOT's District office, and our Columbia office provides immediate access and response to SCDOT headquarters, just 3 blocks away. Dane is wrapping up three current projects in Spartanburg County - by the spring of 2024.

Derek will co-locate at Dane's office for meetings during the pursuit and design phases. We will also meet on-site(s) to discuss issues, and/or TEAMS meetings will be utilized. All design and construction leads will attend in-person and virtual meetings throughout the pursuit and design phases. CTEA's footprint will enhance project execution and delivery, allowing immediate access to the site, SCDOT and the Contractor. Dane is currently working on several nearby projects in SC and has crews ready to serve the Greenville area.

3.4 EXPERIENCE OF KEY INDIVIDUALS

3.4.1 All individuals and firms hold current and appropriate licenses to perform their work in South Carolina. All design reports, plans, and design calculations shall be signed by an unrestricted Engineer registered in the state of South Carolina.

3.4.2 All Key Individuals have singular project responsibilities as described in the RFQ.

3.4.3 See Appendix A for Key Individual Resumes.

3.4.4 Project Management Team

Dane's proven construction team of Adam Holcomb, Colin Darling and Adrian Noriega has successfully worked together on projects for SCDOT and NCDOT – both in the traditional as well as Design-Build delivery models. CTEA's history working for Dane for contractor services as well as Derek's personal history working with Dane as a DB Team Member, and our Wall Team's history working together, will allow our team to hit the ground running and develop this project for SCDOT in a timely fashion.

Title	Name	Firm	Experience		
			Req'd	Prov'd	DB
Project Manager	Adam Holcomb	Dane	7	23	✓
Assistant Project Manager	Colin Darling	Dane	5	10	✓
Construction Manager	Adrian Noriega	Dane	5	24	✓
Lead Design Engineer	Derek Staton	CTEA	10	32	✓
Wall Design - Structures	Pat Gaynor	CTEA	10	26	✓
Wall Design - Geotech	Matt Lattin	ESP	10	20	✓
Traffic Engineer	Hisham Abdelaziz	CTEA	10	35	✓

Project Manager:

Adam Holcomb has spent most of his career working at Dane – starting as an Assistant PM in 2002 and working his way up to President in 2018. He has completed projects in the field, supervised multiple projects administratively, and currently manages and is responsible for all work under Dane's umbrella. Adam brings an eye for constructability, and a mind for traffic control to the project. Adam is a full-time employee of Dane.

Assistant Project Manager:

Colin Darling complements Adam with the daily management of the Project and will schedule and coordinate subcontractors. He performed a similar role on all Dane's NC and SC bridge replacements for the past 5 years. Colin will be on-site during construction activities and lead weekly status meetings during design and construction phases and will be available at the request of SCDOT. Colin is a full-time employee of Dane.

3.4.5 Design Engineering Team

Lead Design Engineer: Derek Staton has extensive experience designing walls as anticipated. Further, as the Design Manager for the I-85 / I-385 Interchange DB project for the Fluor-Lane Team, he has extensive experience with this interchange. Derek shall be in charge of and responsible for all aspects of the design and permitting. He has more than 20 years of experience in the management of Design-Build projects from \$2 million to over \$230 million including multi-level interchanges with complex MOT. For the duration of the design phase, Derek will attend project meetings in person, be dedicated to the design of the Project, and available as needed by SCDOT. Derek is a full-time employee of CTEA.

Wall Design Team: Pat Gaynor (CTEA) and Matt Lattin (ESP) make up the wall design team. Pat has 26 years' experience in the design of structures, including nearly every wall type constructed, and was the lead designer for the wall facing of an existing soil nail wall for the I-485 example project. Matt brings over 20 years' experience in geotechnical design, including the design of walls. Pat and Matthew are currently working on the Package 16 DB Project in Pickens County including the wall system design required for construction.

Traffic Engineer: Hisham Abdelaziz will lead the Traffic, Roadway Design and MOT for the project. He brings 35 years' experience in the design of roadways, interchanges and traffic management. He is currently leading the MOT design for the US 123 NB and SB bridge replacements in Pickens County and was a roadway lead for the Fluor-Lane I-85 / I-385 DB Interchange Project, bringing relevant experience with this interchange to our team.

3.4.6 Construction Management Team

Construction Manager: Arian Noriega complements Adam with construction management. He will work with SCDOT District personnel to ensure project compliance. Arian will have a direct line of communication to Derek for assistance with design issues during construction –

accelerating project delivery. For the duration of construction, Arian shall be onsite during all construction activities for the Project, shall attend weekly status meetings and be available at the request of the SCDOT.

3.5 PAST PERFORMANCE OF TEAM:

Experience of Proposer's Team: Dane and CTEA have worked together routinely over the past eight years on retaining walls, contractor services, temporary bridge foundations, work trestles and demolition plans. Our staff have worked together for decades, extending to Dane's startup over 25 years ago. Dane's most recent SCDOT Contractor score is a 78.26.

SCDOT has scored CTEA with above average marks on our performance appraisals for both EBP 2018-2A and 2020-1 DB projects, and both projects won the Engineering Excellence Award from ACEC-SC. Additional information for projects that showcase our ability to perform this

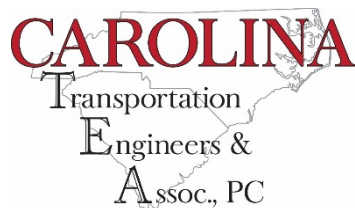
work can be found in Appendix B. As this project is unique, the example projects in Appendix B focus on DB methodology and structures design.

Quality of Past Performance:

No individuals or firms have been suspended, debarred, disqualified from bidding, or declared ineligible within the last five years, nor are such actions pending.

	Yes	No
Has the Lead Contractor or any member of the joint venture been declared delinquent or placed in default on any project?		✓
Has the Lead Contractor or any member of the joint venture submitted a claim on a project that was litigated?		✓
Have any projects been delayed more than 30 days such that liquidated damages were assessed?		✓
Has the Lead Contractor been cited by OSHA for violations deemed serious, willful, or repeated?		✓
Have any projects under contract with the Lead Contractor or any member of the joint venture been subject to remediation actions, stop work orders, or project delays in excess of 30 days as a result of Section 404/Section 401 permit violations?		✓
Has an owner, a Lead Contractor, or any member of a joint venture pursued compensation from the Lead Designer due to errors and omissions?		✓
Has the Lead Designer filed legal proceedings against the Lead Contractor, or vice versa, on a design-build contract?		✓

Appendix A – Key Individual Resume Form
SCDOT Design Build Project
I-85 at I-385 Wall Improvement
Project ID P042302



KEY INDIVIDUAL RESUME FORM

Brief Resume of Key Individual anticipated for the Project.	
a. Name & Title:	Adam Lee Holcomb, PE President
b. Role of Key Individual for this Project:	Project Manager
c. Name of Firm with which you are now associated:	Dane Construction, Inc.
d. Years of Experience: With this Firm <u>21</u> Years With Other Firms <u>2</u> Years	<div style="display: flex;"> <div style="flex: 1;"> <p>Dane: President – Responsible for delivery of all projects, management of operations, project management, annual business plan, estimating, human resources & safety. 12/2018 – present.</p> <p>Dane: Vice-President - Responsible for project financials, project management, coaching/training, innovation, standardization, recruiting, human resources, estimating, & safety. 6/2015 – 12/2018.</p> <p>Dane: Assistant VP - Responsible for project management, standardization, & safety. 6/2012 – 6/2015.</p> <p>Dane: Project Manager – Responsible for estimating, coordination, safety, cost management, owner meetings & project closeout. 6/2011 – 6/2012.</p> <p>Dane: Assistant Project Manager – Scheduling, surveying, bridge construction & project closeout. 6/2002 – 6/2011.</p> <p>NCDOT: Engineering Assistant – Road & bridge Maintenance, surveying & roadway design. 2000 – 6/2002.</p> <p>Over the course of eighteen years, Adam has been promoted to President of Dane Construction and has overseen the completion of over one hundred bridges ranging from cored slabs, box beams, pre-stress girders and structural steel bridges in both North and South Carolina. He has the full authority to execute contracts, negotiate and sign changes orders, approval of equipment purchases and rental agreements and make commitments on behalf of the D-B Team.</p> </div> <div style="flex: 1; background-color: #e6f2ff; padding: 10px; border: 1px solid #000;"> <ul style="list-style-type: none"> ✓ D-B Delivery ✓ D-B-B Delivery w/Construction Phase Involvement ✓ Bridge Replacement ✓ Demolition ✓ Cored Slab/Box Beam Bridges ✓ Detours ✓ Traffic Control/MOT ✓ Utility Coordination ✓ Environmental/Permitting ✓ ROW Acquisition ✓ E&SC ✓ Multiple Bridges (on 1 contract) </div> </div>
e. Education:	Bachelor of Science in Civil Engineering University of North Carolina at Charlotte Charlotte, NC August 1997-May 2002 <ul style="list-style-type: none"> Chi Epsilon Member Cum Laude Graduate
f. Active Registrations:	2011 / NC / Civil / 037888
g. Document the extent and depth of your experience and qualifications relevant to the Project.	<p><u>NCDOT Division 11 D-B Bridge Package C204611 (3 Bridges) in Alleghany and Wilkes Counties</u></p> <p>Key Personnel Role: President</p> <p>Project/Assignment Duration: 2021 - 2023</p> <p>Owner Contact Information: Wiley Jones, PE, 919-707-2403, wwjones@ncdot.gov</p> <p>Design/Construction Value: \$4.11 million</p> <p>Project Description: Project included was an Express Design Build for the NCDOT in multiple counties in Division 11. There are 3 bridges on this project. The bridges included cored slabs and box beams. One of the single span box beam bridges is staged to allow for traffic to be maintained at all times. Another single span box beam bridge required permanent sheeting in front of each end bent to meet the hydraulic requirements and to get the existing roadway to tie-in on each side. The last bridge is a three-span cored slab on drilled shaft interior bents. This project is set to complete in November of this year and wrap up Dane's fourth successful design build project for NCDOT.</p>

NCDOT Division 13B D-B Bridge Package C203573 (11 Bridges) in Buncombe, Madison, Mitchell Counties

Key Personnel Role: Project Manager
Project/Assignment Duration: 2014 - 2018
Owner Contact Information: Ron Hancock, PE, 919-524-2387, rhancock@hntb.com
Design/Construction Value: \$11.43 million

Project Description:

This project was an Express Design Build for the NCDOT in multiple counties in Division 13 near Asheville. This Project consisted of 11 bridges. The bridges were cored slab, box beam, poured deck and multi span box beam and cored slab. We had 9 phased bridges with two of them utilizing detours. On these bridges we had soldier pile walls, soil nail walls, temporary MSE walls, temporary sheeting, spread footers, gravity retaining walls, temporary detour roads, rock blasting, pile excavation, driven pile, drilled shafts and temporary causeways.

NCDOT Division 10 D-B Bridge Package C202980 (9 Bridges & 1 Culvert) in Anson, Union, Mecklenburg, and Cabarrus Counties

Key Personnel Role: Project Manager
Project/Assignment Duration: 2012 - 2016
Owner Contact Information: Ron Hancock, PE, 919-524-2387, rhancock@hntb.com
Design/Construction Value: \$11 million

Project Description:

This project was an Express Design Build for the NCDOT in multiple counties in Division 10 near Charlotte. There was a total of 10 bridges and 1 culvert on this project. The bridges included single span cored slabs, box beams, and reinforced concrete deck bridge. At the owner's request one project was accelerated from a +/- six-month contract time to be completed in 40 days.

NCDOT Division 7 D-B Package C2001302 (Single-Span Structural Steel) in Guilford County

Key Personnel Role: Assistant Project Manager / Project Manager
Project/Assignment Duration: 2004 - 2007
Owner Contact Information: Brian Smith, PE, 336-609-3736, bsmith@dmp.com
Design/Construction Value: \$7 million


Project Description:

Project included a Market Street 175' single span bridge structural steel bridge over Highway 29 in Greensboro, NC. The project was phased maintaining traffic during the life of the project. Roadway component of the project included traffic control phasing, shoring, decorative sidewalks and architectural features, and traffic signals. Dane Construction was responsible for project design, construction, and inspection for the NCDOT.

h. For Key Personnel required to be on-site full-time for the duration of construction, provide a current list of assignments, role, and the anticipated duration of each assignment.

Adam will be actively involved, beginning with the initial phases of the design, contracts, and throughout construction, but is not required to be on-site during construction. Adam will make routine visits to each bridge site throughout the construction of the bridges and roadways for meetings and key construction operations.

KEY INDIVIDUAL RESUME FORM

Brief Resume of Key Individual anticipated for the Project.	
<p>a. Name & Title: Colin Brady Darling Assistant Project Manager</p>	
<p>b. Role of Key Individual for this Project: Assistant Project Manager</p>	
<p>c. Name of Firm with which you are now associated: Dane Construction Inc</p>	
<p>d. Years of Experience: With this Firm <u>8</u> Years With Other Firms <u>0</u> Years</p> <p>Dane Construction Inc.: Assistant Project Manager/ General Superintendent - Responsible for all daily operations on projects in North and South Carolina. 2018-2023.</p> <p>Superintendent – Responsible for construction of various bridge elements on projects in North and South Carolina. 2014 - 2016</p>	<ul style="list-style-type: none"> ✓ D-B Delivery ✓ D-B-B Delivery ✓ Bridge Replacement ✓ Demolition ✓ Detours ✓ Traffic/MOT ✓ E&SC ✓ Multiple Bridges (on 1 contract) ✓ Cored Slabs & Box Beams
<p>e. Education: Brevard College 1-year, Blue Ridge Community College 1 year</p>	
<p>f. Active Registrations: Not applicable</p>	
<p>g. Document the extent and depth of your experience and qualifications relevant to the Project.</p> <p><u>NCDOT Division 13B D-B Bridge Package C203573 (11 Bridges) in Buncombe, Madison, Mitchell Counties</u></p> <p>Key Personnel Role: Assistant Project Manager/ General Superintendent</p> <p>Experience with Current Firm: Dane Construction Inc</p> <p>Project/Assignment Duration: Project 2016-2017, Assigned 2016-2017</p> <p>Owner Contact Information: NCDOT Colby Justice RCE Division 13, Cameron Cochran was the RCE when the project was built. Colby was on the project as an inspector during construction. cdjustice@ncdot.gov</p> <p>Design/Construction Value: \$11.43 million</p> <p>Project Description: This design build project consisted of 11 bridges. The bridges were cored slab, box beam, poured deck and multi span box beam. Dane had nine phased bridges with two of them utilizing detours. On these bridges Dane incorporated soldier pile walls, soil nail walls, temporary MSE walls, temporary sheeting, spread footings, gravity retaining walls, temporary detour roads, rock blasting, pile excavation, driven pile, drilled shafts and temporary causeways. The jobs were in Madison County, Buncombe County and Mitchell County (NC). Colin was APM working with the Dane Team on site to complete each of the eleven bridges and roadways. He was responsible for managing Subs, handling the traveling public on unique traffic control requirements on each bridge location, safety, working directly with our temporary shoring subcontractor to install varying different applications.</p> <p><u>SCDOT US 278 Bridge over Three Runs Creek (ID 0039096) in Aiken County, SC</u></p> <p>Key Personnel Role: Assistant Project Manager/ General Superintendent</p> <p>Experience with Current Firm: Dane Construction Inc</p> <p>Project/Assignment Duration: Project 2017-2019, Assigned 2017-2019</p> <p>Owner Contact Information: SCDOT Bobby Usry 803-641-7600 usrybm@scdot.org Jeffery Taylor 803-443-8992 taylorjl@scdot.org</p> <p>Design/Construction Value: \$4.09 Million</p> <p>Project Description: A bid-build project that included a 214' three span deck bridge using Type III prestress concrete beams and concrete piles at all bent locations, and a culvert extension. Additionally, a 200' temporary detour bridge was installed that included concrete pile foundations for bents 1 and 3 and a pipe pile foundation for bent 2. The project was in Aiken County, SC. Colin was on-site daily and responsible for controlling and managing subcontractors, material deliveries, ensuring safety and overseeing all operations. Colin was the general Superintendent from 2017 – 2018, and then he was the APM from 2018 – 2019. Adam was VP and then President during this project.</p>	

SCDOT Batesville Road Bridge over Rock Creek (ID 00378686) in Greenville County, SC

Key Personnel Role: Assistant Project Manager/ General Superintendent
Experience with Current Firm: Dane Construction Inc
Project/Assignment Duration: Project 2018-2020, Assigned 2018-2019
Owner Contact Information: Jeff Jordan 1-864-979-4168 RCE SCDOT jordonjc@scdot.org
Design Construction Value: \$2.1 Million

Project Description:

Eagle Construction selected Dane as the bridge subcontractor on this bid-build project which consisted of a 260' long and 60' wide with Type III concrete beams and a poured deck with sidewalks on each side. Bents 1 and 4 were driven pile foundations and bents 2 and 3 were drilled shafts with standard columns and caps. The project was in Greenville County, SC. Colin was on-site daily and responsible for attending weekly meetings with the GC, cost control, managing subs, overseeing the bridge construction, and safety. He supervised crews working on pile driving, forming substructure & superstructure, placing rebar, concrete pours for substructure & superstructure, parapet construction and punch list completion.

City of Hickory 46th Ave. Drive NE Bridge over Snow Creek in Catawba County, NC

Key Personnel Role: Superintendent
Experience with Current Firm: Dane Construction Inc
Project/Assignment Duration: Project 2014-2015, Assigned 2014-2015
Owner Contact Information: City Construction Manager Steve Miller- 828-302-3739
smiller@hickorync.gov
Inspector Jerry Bowman- 828-308-3917 jrbowman@hickorync.gov
Design Construction Value: \$942,205

Project Description:

This bid-build project was a 75' box beam bridge on pile bents and utilities installed under the bridge. Parapet included a stone form liner and stained black guardrail with timber guardrails coming off the approach slabs for an entrance into a sub-division. The project also required a creek realignment with plantings and trees as part of the overall contract. Colin was the Superintendent on this project and responsible for all construction related activities, owner meetings, managing subs, and site safety.

SCDOT US Hwy 1 Bridge over S Edisto River (ID 0029920) in Aiken, SC

Key Personnel Role: Assistant Project Manager
Firm: Current
Project/Assignment Duration: Project 2020-2022, Assigned 2020-2022
Owner Contact Information: SCDOT, Jeffery Taylor, taylorJL@scdot.org, (803) 443-8992
Design/Construction Value: \$4.7 Million

Project Description:

This bid-build project consisted of a temporary bridge alignment and new alignment construction of a four-span PSC beams, deck bridge across the S. Edisto River in Ridge Spring SC. Included temporary shoring, drilled shafts, driven pile, utility relocations, existing bridge demolition, grading and asphalt. Colin was the APM on this project responsible for controlling and managing subcontractors, material deliveries, coordination with SCDOT, safety, and overseeing all operations. Colin worked on this project with Adam Holcomb (President) and Adiran Noriega (CM). This proven team of Adam, Colin and Adrian will be a resource for the success of SCDOT's D-B Bridge Package 20.

- h. For Key Personnel required to be on-site full-time for the duration of construction, provide a current list of assignments, role, and the anticipated duration of each assignment.

Colin Brady Darling is currently the APM on our Division 11 Design-build project that will be completed on October 1st of this year. Colin would then be immediately available to begin work on a successful bid in December on SCDOT's package 20.

KEY INDIVIDUAL RESUME FORM

Brief Resume of Key Individual anticipated for the Project.	
a.	Name & Title: Adrian Iturbide Noriega Construction Manager/Superintendent, CCO
b.	Role of Key Individual for this Project: Construction Manager
c.	Name of Firm with which you are now associated: Dane Construction, Inc.
d.	Years of Experience: With this Firm <u>23</u> Years With Other Firms <u>0</u> Years 2000-2003 Bridge Laborer 2003-2006 Carpenter 2006-2009 Leadman 2009-2011 Foreman 2011-Current Construction Manager/Superintendent: Responsible for the day-to-day management of construction activities onsite for a variety of bridge types in North Carolina and South Carolina, including cored slabs, box beams and prestressed girders 2011 – 2023
	<div style="border: 1px solid black; background-color: #e6f2ff; padding: 10px;"> <ul style="list-style-type: none"> ✓ D-B Delivery ✓ D-B-B Delivery ✓ Bridge Replacement ✓ Demolition ✓ Multiple Bridges (on 1 contract) ✓ Cored Slabs & Box Beams </div>
e.	Education: High School Diploma
f.	Active Registrations: Not applicable
g.	Document the extent and depth of your experience and qualifications relevant to the Project. <div style="border: 1px solid black; padding: 5px;"> <p><u>SCDOT Highway 176 over Dean Swamp and Dean Swamp Overflow in Berkeley and Orangeburg Counties, SC</u></p> <p>Key Personnel Role: Construction Manager Firm: Current Project Assignment Duration: Project 2020-2022, Assigned 2020-2022 Owner Contact Information: SCDOT, Keith Green, GreenFK@scdot.org, 843-746-7903 Design/Construction Value: \$8.8M</p> <p>Project Description: This was a staged construction project with over 0.6 miles of roadway and 2 flat slab bridges near Holly Hill, SC. Bridge 1 was a 160' 4-span flat slab bridge on concrete pile bents with staged construction. Bridge 2 was a 240' 7-span flat slab bridge on concrete pile bents with staged construction. Both bridges required pre-drilling for concrete pile installation, which was completed by Dane Construction. A temporary work trestle was installed to construct both bridges for each stage. Adrian's specific responsibilities included managing of construction, construction sequencing of multiple crews, Coordination and scheduling of Materials and Subcontractors, working on-site with the Project Manager to ensure project was built on schedule, on budget, and safely.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><u>NCDOT Monroe Bypass, Structures B1800, B1900, B2400, B2500, C202587 in Mecklenburg and Union Counties, NC</u></p> <p>Key Personnel Role: Construction Manager Firm: Current Project Assignment Duration: Assigned 2016-2017 Prime Contractor Information: Monroe Bypass Constructors UIG, Michael Gantt, PE, Michael.Gantt@uig.net 803-899-0178 Owner Information: NCDOT, Rob Cousins, PE rob.cousins@summitde.com 540-320-6428 Contract Value: +/- \$300M Bridge Contract Value: \$4.5M (Labor and Equipment only – all permanent materials supplied by United) Project Description: Dane Construction was a subcontractor for United Infrastructure on the Monroe Bypass project. Dane Construction was contracted to construct structures B1800, B1900, B2400 and B2500 totaling over 87,000 SF of bridges. Adrian's specific responsibilities on this project included coordination and scheduling with the GC, ensuring the project remained on schedule, managing bridge construction of multiple crews and safety. Total SF of deck completed on this project was 87,364. Adrian worked with Colin Darling (APM) to successfully deliver this project.</p> </div>

NCDOT Division 10 D-B Bridge Package C202980 in Anson, Cabarrus, Mecklenburg and Union Counties

Key Personnel Role: Construction Manager
Firm: Current
Project Assignment Duration: Project 2012-2016, Assigned 2013-2016
Owner Contact Information: NCDOT, Nat Hunter, ehunter@ncdot.gov, 980-262-6202
Design Contract Value: \$8.5M

Project Description:

This project was an Express Design Build project for NCDOT that included the replacement of one bridge in Anson County, four bridges in Cabarrus County, one bridge in Mecklenburg County and five bridges in Union County. Adrian managed the construction of 5 of the bridges in this package. The project included 4 Cored Slab Bridges and one PSC Girder Bridge. Adrian's specific responsibilities were scheduling and construction sequencing and managing overall construction of multiple crews. Adrian worked successfully as CM with Adam Holcomb (PM) and Colin Darling (APM) on this project.

NCDOT On I-40 and over NC-18 C202622 in Burke County, NC

Key Personnel Role: Construction Manager
Firm: Current
Project Assignment Duration: 2011-2013
Owner Contact Information: NCDOT, Chris Guffey, PE, caguffey@ncdot.gov, 828-447-2541
NCDOT, Nathan Moneyham, PE, nsmoneyham@ncdot.gov, 828-443-8407
Contract Value: \$22M

Project Description:

This project consisted of grading, paving, widening, drainage, structures, culvert extensions, walls, signals, and Interstate Traffic Switches. Adrian managed field operations for all structure construction and played a key role in the planning and scheduling for overall construction sequencing. Adrian worked closely with the PM and General Superintendent to ensure the project was built on schedule and budget.

SCDOT US Hwy 1 Bridge over S Edisto River (ID 0029920) in Aiken, SC

Key Personnel Role: Construction Manager
Firm: Current
Project/Assignment Duration: Project 2020-2022, Assigned 2020-2022
Owner Contact Information: SCDOT, Jeffery Taylor, taylorJL@scdot.org, (803) 443-8992
Design/Construction Value: \$4.7 Million


Project Description:

This bid-build project consisted of a temporary bridge alignment and new alignment construction of a four-span PSC girders, deck bridge across the S. Edisto River in Ridge Spring SC. Included temporary shoring, drilled shafts, driven pile, utility relocations, existing bridge demolition, grading and asphalt. Adrian worked on this project as a Construction Manager and was responsible for managing field operations for all bridge construction. Adrian worked with Adam Holcomb (President) and Colin Darling (APM) to successfully complete this project for SCDOT.

- h. For Key Personnel required to be on-site full-time for the duration of construction, provide a current list of assignments, role, and the anticipated duration of each assignment.

Adrian is currently working on a Design-Build project to complete a three-span structural steel bridge as a sub where his role will be completed in three months and would be available as package 20 requires.

KEY INDIVIDUAL RESUME FORM

Brief Resume of Key Individual anticipated for the Project.	
a.	Name & Title: Derek Staton, PE President
b.	Role of Key Individual for this Project: Lead Design Engineer
c.	Name of Firm with which you are now associated: Carolina Transportation Engineers & Associates, PC (Carolina TEA)
<div style="text-align: right; font-size: small;">  </div>	
d.	Years of Experience: With this Firm <u>8</u> Years With Other Firms <u>24</u> Years <p>Carolina TEA: President – Responsible for marketing, operations and technical design. Responsibilities include DB pursuits, Bridge QC and Project Risk Management for \$600 million (est.) I-95 Widening (MM 0 to MM 8), Bridge Lead for \$350 million (est.) US 278 over Mackay Creek and Skull Creek, and Bridge Lead / PM for multiple bridge replacement projects. 2016 – 2024.</p> <p>TranSystems: Vice-President, National Bridge Lead, National Design-Build Lead – Responsible for pursuit strategies, D-B teaming decisions, contract negotiations, fee development, ATCs and innovations, project staffing plans, quality control processes, budget control, project management and project delivery. 2014-2016</p> <p>HDR Engineering: Vice-President, Carolina's Structure Section Manager – Senior Structures Engineer responsible for the sustained growth from 3 to 30 bridge engineers. Performed "Performance and Resource Reviews" nationally for HDR for DB projects. Senior Project Manager and Design Manager for DB projects up to \$350 million. Project Manager for conventional bridge design projects including Signature Structures up to \$600 million. Responsible for daily activities of the structures group in 3 offices (Charleston, SC, Raleigh, NC and Charlotte, NC), QA/QC processes, development of budgets, contract negotiations, teaming strategies, marketing, proposals and support of bridge groups nationally. 2000-2014</p> <p>HDR Engineering: Structures Engineer – Bridge Engineer responsible for superstructure and substructure design for grade separated structures, stream crossings and major river crossings, as well as tunnels, retaining walls and buildings. Bridge designs include timber, CIP concrete, Prestressed Concrete, Post-Tensioned Concrete, Steel Girder, Steel Tub Girder and Curved Steel Girder superstructures on timber, steel and reinforced concrete substructures. Facilities carried include vehicular traffic, rail, pedestrian and utilities. 1995 – 2000</p> <p>WV Department of Transportation: Asst. Maintenance Engineer – Responsible for contractor oversight for bridge replacements, retaining wall construction and paving projects. Additional responsibilities included evaluation and approval for encroachment permits, planning and staffing for Snow Removal and Ice Control activities. 1992 - 1995</p>
e.	Education: West Virginia University / Morgantown, WV / Master of Science / 1995 / Civil Engineering Virginia Tech / Blacksburg, VA / Bachelor of Science / 1992 / Civil Engineering
f.	Active Registrations: <div style="display: flex; justify-content: space-between;"> <div> 2003 / SC / Civil / 22961 1997 / VA / Civil / 30699 2001 / NC / Civil / 27292 </div> <div> 2012 / GA / Civil / 37412 </div> </div>

- g. Document the extent and depth of your experience and qualifications relevant to the Project.

Emergency Bridge Package 2020-1 DB

Key Personnel Role: Lead Design Engineer

Experience with Current Firm: Carolina TEA

Project/Assignment Duration: Project 2020, Assigned 2020

Owner Contact Information: SCDOT, Michael Pitts, pittsme@scdot.org, (803) 737-2566

Design/Construction Value: \$3,173,140 Construction

Project Description: Project included 2 emergency bridge replacement projects and associated approach roadway reconstruction in York and Anderson Counties. Derek's specific responsibilities included assembling the design team, conceptual design, final structures design, coordination of design team, scheduling and cost control and development of project closeout documentation including as-builts. Bridges utilized single span and multi-span cored slab structures. Project requirements included completion in 215 days. Palmetto obtained substantial completion on time.

Emergency Bridge Package 2018-2A DB

Key Personnel Role: Lead Design Engineer

Experience with Current Firm: Carolina TEA

Project/Assignment Duration: Project 12/2018 – 1/2020, Assigned 12/2018 – 1/2020

Owner Contact Information: SCDOT, Jae Mattox, MattoxJH@SCDOT.org, (803) 737-1805

Design/Construction Value: \$5,127,593 Construction

Project Description: Project includes 3 emergency bridge replacement projects and associated approach roadway reconstruction in Dillon and Marlboro Counties. Derek's specific responsibilities included conceptual design, final structures design, coordination of design team, scheduling and cost control. Bridges utilized single span and multi-span cored slab structures. Project requirements included completion in 200 days. The Palmetto Team (Contractor) obtained substantial completion on time.

Project won the 2020 ACEC-SC Engineering Excellence Award.

S-349 Bridge Replacement over Sandy Branch

Key Personnel Role: Structures Engineer, QA/QC

Experience with Current Firm: Carolina TEA

Project/Assignment Duration: Project 11/2022 – Present, Assigned 11/2022 – Present

Owner Contact Information: SCDOT, Tameika Bostic, BosticTI@SCDOT.org, (803) 737-0457

Design/Construction Value: \$3,000,000 Construction (estimated)

Project Description: This project includes the fast-paced design of a replacement bridge for a closed structure. The 105 ft single span bridge on 15-degree skew will utilize AASHTO Type IV girders. CTEA was selected for the replacement in October '22, NTP was given in November '22, and final plans will be provided in February '23 for Construction Let. Design includes bridge, roadway, hydraulics, geotechnical, erosion control, utility coordination, public involvement, permitting and all disciplines necessary to complete the project.

I-95 Widening MM 0 to MM 8

Key Personnel Role: Structures Design and Risk Management

Experience with Current Firm: Carolina TEA

Project/Assignment Duration: Project 11/2021 – Present, Assigned 11/2021 – Present

Owner Contact Information: SCDOT, Megan Groves, PE, grovesme@SCDOT.org, (803) 737-1210

Design/Construction Value: \$600,000,000 Construction (estimated)

Project Description: Project includes the widening of 8 miles of I-95, a new interchange, an interchange replacement, and a dozen bridge replacements. CTEA is designing the twin bridges carrying 4 lanes of I-95 in each direction over Union Creek. These 540'-0" bridges utilize AASHTO girders on drilled shaft interior bents and driven pile end bents. The NBL bridge is constructed as a whole, while the SBL bridge is staged for MOT.

- h. For Key Personnel required to be on-site full-time for the duration of construction, provide a current list of assignments, role, and the anticipated duration of each assignment.

The Lead Design Engineer is not required to be on-site full-time for the duration of construction.

KEY INDIVIDUAL RESUME FORM

Brief Resume of Key Individual anticipated for the Project.	
a.	Name & Title: Hisham Khalid Abdelaziz, P.E., PMP Senior Project Manager
b.	Role of Key Individual for this Project: Lead Roadway, MOT and Traffic Services
c.	Name of Firm with which you are now associated: Carolina Transportation Engineers & Associates
d.	Years of Experience: With this Firm <u>1</u> Years With Other Firms <u>35</u> Years <p>Carolina Transportation Engineers & Associates: Partner / Senior Project Manager – Business development, company operations, staff management and managing and leading roadway design services on conventional and alternative delivery projects. 2023 to present.</p> <p>CDM Smith Inc.: Associate/ Senior Project Manager – Business development as well as managing, leading and overseeing the design and plan development of transportation projects. 2017 to 2023.</p> <p>HDR: Associate VP / Sr. Project Manager – Business development, managing and overseeing the design and plan development efforts on transportation projects. 2004 to 2017.</p> <p>AECOM: Project Manager – Managing roadway design projects of all sizes and levels of complexity including geometric design, plan development, public involvement, quantity calculations and cost estimating. 1998 to 2004.</p> <p>Robert Peccia & Associates, Helena, MT – Project Manager – Managing and leading the design of transportation projects including geometric design, traffic control, quantity calculations and cost estimating. – 1992 to 1996.</p> <p>Mead & Hunt, Inc. – Madison, WI – Staff Engineer – Prepare roadway and bridge design plans, quantity calculations, cost estimating and construction oversight. 1987 to 1992</p> <p>Hisham Abdelaziz has over 35 years of experience managing and designing transportation projects of all sizes and varying levels of complexity, both conventional and alternative delivery. His management experience extends to project organization and overseeing all phases of project development, contract negotiations, budget and schedule establishment and tracking, quality assurance and quality control, constructability reviews, value engineering, client and subconsultant coordination, public involvement, staff oversight, and technical training and assistance. Additionally, Mr. Abdelaziz is very knowledgeable and experienced on a technical level including geometric layout, pavement design, urban and rural hydrology and hydraulics design, scour analysis, signing and pavement markings, traffic control, specifications and cost estimation. Since starting his career, Mr. Abdelaziz has successfully managed and led the design efforts on several transportation projects for many state DOTs, counties and municipalities.</p>
e.	Education: Montana State University / Bozeman, MT – BSCE, 1986
f.	Active Registrations: 1999 / SC PE 19944 1998 / NC PE 24057 1994 / MT PE 11133 2019 / PMP 2596089

- g. Document the extent and depth of your experience and qualifications relevant to the Project.

SCDOT Design Build Bridge Package 16, Pickens County, SC

Key Personnel Role: Lead Roadway Design Manager
Experience with Current Firm: Carolina TEA
Project/Assignment Duration: Project 2023, Assigned 2023
Owner Contact Information: SCDOT, Michael Mitts, pittsme@scdot.org, 803.737.2566
Design/Construction Value: \$32 Million

Project Description:

The project calls for the replacement of five bridges in Pickens County, SC. The bridges include SC 183 over Twelve Mile Creek, SC 183 over Gregory Creek, SC 124 over Georges Creek, and US 123 NB and SB over Georges Creek. The bridges along SC 124 and SC 183 will be replaced on alignment utilizing close and detour method to minimize project foot print as well as environmental and property impacts. The bridges along US 123 will be reconstructed using staged construction due to heavy traffic and the lack of appropriate detours. Work entails bridge design, road approach work, geometric design, hydrology and hydraulic analysis, pavement marking and signing plans, permitting, traffic control, detour plans, constructability reviews, ROW acquisitions, utility engineering and coordination, and public involvement.

SCDOT US 278 Corridor Improvements, Beaufort County, SC

Key Personnel Role: Project Manager / Lead Design Engineer
Experience with Current Firm: CDM Smith
Project/Assignment Duration: Project 2017, Assigned 2017
Owner Contact Information: SCDOT, Graig Winn, winnCL@scdot.org, 803.737.6376
Design/Construction Value: \$240 Million

Project Description:

CDM Smith and Carolina TEA are partnering with KCI Technologies to develop a corridor improvement plan for the section of US 278 between Moss Creek Road and Spanish Wells Road in southern Beaufort County, SC. This originated as a bridge replacement project with a budget of \$40 million. Recognizing the need for improved mobility between Bluffton and Hilton Head Island, SCDOT partnered with Beaufort County to develop this corridor improvement plan, which incorporates the bridge replacement need. The estimated value of improvements for the 4-mile corridor is \$240 million. Phase 1 of this project included a planning-level study to assess existing conditions of the corridor in terms of bridge condition, traffic congestion, safety and seismic design. Phase 2 will utilize the decisions and approved EA from Phase 1 to carry the preferred alternative through final design and the development of construction plans. Mr. Abdelaziz served as the project manager for CDM Smith and the primary point of contact between CDM Smith and KCI Technologies. His role included project and staff coordination and oversight, budget and schedule development and monitoring, public involvement, quality control and quality assurance, alternatives analysis, resource allocation, client liaison and technical resource for roadway design.

NCDOT U-6103 – US 74 Express Lanes Design, Charlotte, NC

Key Personnel Role: Project Manager
Experience with Current Firm: CDM Smith, Inc.
Project/Assignment Duration: Project 2019, Assigned 2019
Owner Contact Information: NCDOT, Brett Canipe, bdcanipe@ncdot.gov, 704.983.4400
Design/Construction Value: \$215 Million

Project Description:

The North Carolina Department of Transportation (NCDOT) and the North Carolina Turnpike Authority (NCTA) propose to construct express lanes on US74 in the city of Charlotte from I-277 to I-485 in multiple phases in order to relieve congestion, enhance safety and provide travel time reliability. Project U-6103 which extends approximately four miles from I-277 to just east of Sharon Amity Road proposes to convert the existing two-way, two-lane express bus lanes in the median of US74 to vehicular express lanes, thus providing an option for motorists to use these lanes by paying tolls. In addition, the interchange at NC27 (Albemarle Road) will be modified as necessary to provide direct connect access of the express lanes from/to US74 and NC27. As an owner's representative, CDM Smith as a subconsultant to RS&H provided alternatives analysis and conceptual interchange design of the express lanes and interchange modifications. Mr. Abdelaziz served as the project manager for the CDM Smith portion of the project by utilizing his extensive experience in interstate and interchange design to provide design concepts, design reviews, constructability reviews and oversaw the quality control and quality assurance, as well as coordinated with the staff and client to deliver the preferred mainline and interchange alternatives.

- h. For Key Personnel required to be on-site full-time for the duration of construction, provide a current list of assignments, role, and the anticipated duration of each assignment.

N/A

KEY INDIVIDUAL RESUME FORM

Brief Resume of Key Individual anticipated for the Project.	
a.	Name & Title: Patrick Gaynor, P.E. Senior Structural Engineer
b.	Role of Key Individual for this Project: Wall - Structures Engineer
c.	Name of Firm with which you are now associated: Carolina Transportation Engineers & Associates, PC
d.	Years of Experience: With this Firm <u>2</u> Years With Other Firms <u>24</u> Years Carolina Transportation Engineers & Associates: Senior Structural Engineer – Responsible for Construction Engineering Services for Contractors and Bridge Design, 2022 - present Tunstall Engineering Group: Project Manager – Responsible for overseeing and designing Construction Engineering Services for Contractors, 2014 - 2022 HDR: Staff Engineer/Project Manager – Responsible for bridge and construction engineering design duties as assigned, 1998 - 2014
e.	Education: University of Pittsburgh – Katz Graduate School of Business/ Pittsburgh, PA / Masters Business Administration / 2003 / Entrepreneurship University of Pittsburgh / Pittsburgh, PA / Bachelor of Science / 1997 / Civil Engineering - Structures Duke University / Durham, NC / Bachelor of Arts / 1990 / Biological Anthropology
f.	Active Registrations: 2003/PA/Civil/PE061844 2023/SC/Civil/41052 2023/NC/Civil/055442 2023/GA/Civil/PE049836

- g. Document the extent and depth of your experience and qualifications relevant to the Project.

S.R. 0006 Design Build Wall Replacement, Warren County, PA

Key Personnel Role: Project Manager / Lead Design Engineer
Experience with Current Firm: HDR
Project/Assignment Duration: Project 2003, Assigned 2003
Owner Contact Information: PennDOT District 1-0
Design/Construction Value: \$2.4 Million

Project Description:

Project Manager for the design and construction of a Soldier Pile and Lagging Wall approximately 430 linear feet to replace a failing MSE wall; also for the construction of Type 1 Shoulder, drainage, and reset concrete barrier, all within a project length of 1087 feet (0.206 mile). Responsible for cantilever wall design and overall project coordination.

S.R. 0019, Section A27 West End Improvements, Allegheny County, PA

Key Personnel Role: Project Manager / Lead Design Engineer
Experience with Current Firm: HDR
Project/Assignment Duration: Project 2010, Assigned 2010
Owner Contact Information: PennDOT District 6-0
Design/Construction Value: \$28.2 Million

Project Description:

Project Manager for Construction Engineering Services. The project had three tall (50 foot+) anchored soldier pile and lagging walls. I worked with the contractor during pre-bid to look at alternate wall types, none of which were cost effective. After award I designed the one-sided formwork support to simplify construction.

I-485 Wall Facing Design, Mecklenburg County, NC

Key Personnel Role: Project Manager / Lead Design Engineer
Experience with Current Firm: Tunstall Engineering Group
Project/Assignment Duration: Project 2022, Assigned 2022
Owner Contact Information: Lee Bradley, Blythe Construction
Design/Construction Value: Unknown

Project Description:

Project Manager for Construction Engineering Services. The project involved designing the permanent wall facing of four soil nail walls. The facings are non-structural with form liners to improve aesthetics. I designed the wall connections, foundations, and wall design.

- h. For Key Personnel required to be on-site full-time for the duration of construction, provide a current list of assignments, role, and the anticipated duration of each assignment.

N/A

KEY INDIVIDUAL RESUME FORM

Brief Resume of Key Individual anticipated for the Project.	
a.	Name & Title: Matthew M. Lattin, P.E. Senior Engineer
b.	Role of Key Individual for this Project: Wall Design Team - Senior Geotechnical Engineer
c.	Name of Firm with which you are now associated: ESP Associates, Inc.
d.	Years of Experience: With this Firm <u>3</u> Years With Other Firms <u>17</u> Years 1. ESP Associates, Inc.: Senior Engineer – Responsible for SCDOT and NCDOT bridge and roadway design as assigned, 2021 – present 2. ECS Limited: Geotechnical Department Manager – Responsible for SCDOT roadway design and commercial engineering projects, 2016 – 2021 3. Langan Treadwell Rollo: Senior Staff Engineer – Responsible for commercial engineering projects as assigned, 2014 – 2016 4. Taber Consultants: Staff Engineer – Responsible for Caltrans bridge and roadway drafting and design as assigned, 2004 – 2014
e.	Education: California State University / San Jose, CA / Master of Science / 2013 / Civil Engineering - Geotechnical California State University / Sacramento, CA / Bachelor of Science / 2010 / Civil Engineering ETI Technical College / Canton, OH / Associate of Applied Science / 2002 / Drafting
f.	Active Registrations: 2021 / NC / Civil / 52709 2016 / SC / Civil / 33709 2015 / CA / Civil / C85504
g.	Document the extent and depth of your experience and qualifications relevant to the Project. 1. <u>Bridge No. 780001 on SR 2817 (Barnes Street) over US 29, Rockingham County, NC</u> Key Personnel Role: Senior Geotechnical Engineer Experience with Current Firm: ESP Project/Assignment Duration: 1 year Owner Contact Information: NCDOT / David L. Teague / dteague@ncdot.gov / (919) 707-6877 Design/Construction Value: \$100 Million Project Description: This project included the replacement of the existing bridge over US 29 and improvements to the roadway and embankments. Matt's specific responsibilities included the design of bridge foundations, embankments, and MSE walls. 2. <u>The Morris, Charleston, SC</u> Key Personnel Role: Senior Geotechnical Engineer Experience with Other Firm: ECS Project/Assignment Duration: 1 year Owner Contact Information: Cowan Nakios / Ross Cowan / ross@cowannakios.com / (917) 520-1392 Design/Construction Value: \$50 Million Project Description: This project included a new two-story concrete-framed office building with a retail plaza between a three-story concrete-framed office building connected to a five-story concrete parking garage. Matt's specific responsibilities included foundation design and testing and slab underdrain design to relieve hydrostatic pressure on the garage walls. 3. <u>US21/I-26 Interchange Improvements, Lexington County, SC</u> Key Personnel Role: Senior Geotechnical Engineer Experience with Other Firm: ECS Project/Assignment Duration: 6 months Owner Contact Information: Design Build / Stantec / Brett Gillis / bret.gillis@stantec.com / (803) 748-7843 Design/Construction Value: \$100 Million Project Description: This project included the widening of the existing US 21 overpass, revised exit ramps, and improvements to the current intersections/turning lanes on US 21. Matt's specific responsibilities included seismic evaluation in accordance with the SCDOT GDM for the design of bridge foundations, embankments, and walls. 4. <u>550 Allerton, Redwood City, CA</u> Key Personnel Role: Senior Staff Engineer Experience with Other Firm: Langan

Project/Assignment Duration: 1 year

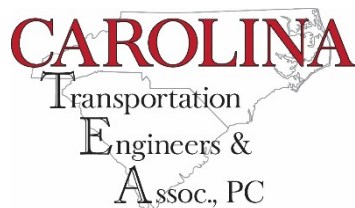
Owner Contact Information: South Bay Construction / (408) 379-5500

Design/Construction Value: \$50 Million

Project Description: This project included the construction of an 8-story office building over two stories of underground parking. Matt's specific responsibilities included foundation and temporary soldier pile and lagging wall design and consultation during foundation and wall construction.

- h. For Key Personnel required to be on-site full-time for the duration of construction, provide a current list of assignments, role, and the anticipated duration of each assignment.

Appendix B – Work History and Quality Form - Contractor
**SCDOT Design Build Project
I-85 at I-385 Wall Improvement
Project ID P042302**



WORK HISTORY AND QUALITY FORM – CONTRACTOR/DESIGNER

Name of Lead Contractor – Dane Construction, Inc.

a. Project Name & Location (City, State)	b. Name of lead responsible for the overall project design or construction	c. Contact information of the Client & their Project Manager who can verify Dane’s responsibilities	d. Actual or Estimated Construction & Professional Services Completion Date	e. Actual or Estimated Project Construction Cost (in thousands)	f. Dollar Value of Work Performed by Dane (in thousands)
Name: SCDOT Division US 176 Over Deans Swamp – 8884991 Delivery Method: Design/Bid/Build Location: Berkeley & Orangeburg County	Name: SCDOT - Design	Name of Owner: SCDOT Project Manager: Keith Green, PE Phone: 843-746-7903 Email: greenfk@scdot.org	Completed Summer 2022	\$ 9,185	\$4,500

g. Narrative describing the work performed by Dane as the Contractor

This was a phased construction project with over 0.6 miles of roadway and 2 bridges near Holly Hill, SC. Bridges consisted of concrete pile interior bents with pile excavation, steep pile end bents, and flat slab superstructure.



h. Self-Assessment. The information provided in this section should be a self-assessment of Dane’s performance on the project to identify Dane with firms or personnel that have successfully completed projects on time and on or under budget, and to identify Lead Designer that have records of managing contracts to minimize delays, claims, dispute proceedings, litigation, and arbitration.

This project was complicated due to its environmental sensitivity, traffic control, phasing, and construction requirements. Dane successfully work multiple crews to complete the project on time. There were several constructability issues on the project which Dane and the Department partnered to develop solutions and progress the project to a successful completion.

i. Quality Initiatives. Discuss Dane’s quality initiatives including, but not limited to, cost control, schedule management and adherence, avoidance of claims, and other pertinent initiatives enhancing quality on the project.

This project was won at the onset of COVID-19. The Department and Dane worked together to complete the project navigating issues we have never had to address in construction. The SCDOT implemented a material price escalation program that assisted the contractor with unbearable material cost escalations. This project was one of the first in the State to implement the program with good communication and coordination between Dane and the Department.

j. For each question in Section 3.5.2 of the RFQ for which a “Yes” answer was provided, Dane shall provide a detailed explanation below.

No to each of the questions

WORK HISTORY AND QUALITY FORM – CONTRACTOR/DESIGNER

Lead Contractor – Dane Construction Inc.

a. Project Name, Delivery Method (DBB, DB, etc.) & Location (City, State)	b. Name of lead responsible for the overall project design or construction	c. Contact information of the Client & their Project Manager who can verify Dane's responsibilities	d. Actual or Estimated Construction & Professional Services Completion Date	e. Actual or Estimated Project Construction Cost (in thousands)	f. Dollar Value of Work Performed by Dane (in thousands)
Name: NCDOT Division 13B D-B Bridge Package C203573 Delivery Method: D-B Location: Buncombe, Madison, Mitchell Counties, NC	Name: KCI – Lead Project Designer	Name of Owner: NCDOT Project Manager: Inspector then and now Resident Engineer, Colby Justice Phone: 828.658.7034 Email: cdjustice@ncdot.gov	08/2014 (start design) 05/2018 (completed)	\$11,431	\$6,830

g. Narrative describing the work performed by Dane Construction Inc.- Dane is the proposed Lead Contractor

Dane Construction, Inc. completed the replacement of eleven bridges which included seven cored slab bridges, two box beam bridges, a box bridge/cored slab combination, a pre-stress girder deck bridge and a cast-in-place box culvert. Seven of these bridges were phased / staged construction, and four were built offline or detours. These included soldier pile walls, soil nail walls, temporary MSE walls, temporary sheeting, spread footers, gravity retaining walls, temporary detour roads, rock blasting, pile excavation, drilled shafts, and temporary causeways.

Adam Holcomb was VP over this project and was assisted by Colin Darling. This was a very effective combination and will be a resource for success on SCDOT's Package 20.



Key Relevancies:

- ✓ D-B Delivery
- ✓ Bridge Replacement
- ✓ Demolition
- ✓ Detours
- ✓ Traffic/MOT
- ✓ Utility Coordination
- ✓ ROW Acquisition
- ✓ Erosion & Sedimentation Control
- ✓ Multiple Bridges On 1 Contract
- ✓ Cored Slabs / Box Beams

	Bridges	Length	Location (Co.)
1	Two span cored slab	102'	Buncombe
2	Single span cored slab	70'	Buncombe
3	Single span cored slab	60'	Buncombe
4	Two barrel culvert	57'	Buncombe
5	Single span Box Beam	90'	Madison
6	Two span cored slab/ box beam combination, phased	135'	Madison
7	Single span cored slab	75'	Madison
8	Two span cored slab, phased	130'	Mitchell
9	Single span cored slab, phased	35'	Mitchell
10	Single span 54" PSC girders	107'	Mitchell
11	Single span cored slab	70'	Mitchell

h. Self-Assessment. The information provided in this section should be a self-assessment of Dane's performance on the project to identify Dane with firms or personnel that have successfully completed projects on time and on or under budget, and to identify Lead Designers that have records of managing contracts to minimize delays, claims, dispute proceedings, litigation, and arbitration.

Each project presented unique scopes from staged bridges requiring temporary shoring, and traffic control. All were delivered safely and on time. Two of the eleven bridges were value engineered to provide a cost savings to the Owner. Utility conflicts were recognized early in the project and addressed with the utility Owner as not to delay the project.

i. Quality Initiatives. Discuss Dane's quality initiatives including, but not limited to, cost control, schedule management and adherence, avoidance of claims, and other pertinent initiatives enhancing quality on the project.

Dane Construction Inc. retained KCI as the lead designer on this project to design each of the eleven bridges as well as coordinating the ROW, hydro, utility coordination and geo-tech. This was the first DB project we completed with KCI and have since retained KCI on our current DB in Division 11 for NCDOT, which includes three bridge replacements. Each month on this project and now weekly on our current DB project, a review of the previous weeks costs are reviewed by the PM and President as well as a schedule review. Monthly safety audits are also conducted and reviewed at the PM's monthly meeting with the President. Adherence to the plans and specifications is outlined in the DCI Construction Manual that each PM, APM and Supervisor review and modify as new methods are implemented and refined. This manual provides the exact method/ procedures for construction for each phase of the project from pile driving to setting PSC girders.

j. For each question in Section 3.5.2 of the RFQ for which a "Yes" answer was provided, Dane shall provide a detailed explanation below.

No to each of the six questions

WORK HISTORY AND QUALITY FORM – CONTRACTOR/DESIGNER

Name of Lead Contractor – Dane Construction, Inc.

a. Project Name & Location (City, State)	b. Name of lead responsible for the overall project design or construction	c. Contact information of the Client & their Project Manager who can verify Dane's responsibilities	d. Actual or Estimated Construction & Professional Services Completion Date	e. Actual or Estimated Project Construction Cost (in thousands)	f. Dollar Value of Work Performed by Dane (in thousands)
Name: NCDOT Division 11 D-B Bridge Package C204611 Delivery Method: DB Location: Wilkes and Alleghany Counties	Name: KCI – Lead Designer	Name of Owner: NCDOT Project Manager: Randell Miles Phone: 336-530-6000 Email: rsmiles@ncdot.gov	04/2021 (start design) 10/2023 (anticipated completion)	\$4,113	\$2,810

g. Narrative describing the work performed by Dane as the Contractor

One of the single span box beam bridges is staged to allow for traffic to be maintained at all times. Another single span box beam bridge required permanent sheeting in front of each end bent to meet the hydraulic requirements and to get the existing roadway to tie-in on each side.

The last bridge is a three-span cored slab on drilled shaft interior bents. This project is set to complete on October 1st of this year and wrap up Dane's fourth successful design build project for NCDOT.



Key Relevancies:

- ✓ D-B Delivery
- ✓ Bridge Replacement
- ✓ Demolition
- ✓ Detours
- ✓ Traffic/MOT
- ✓ Utility Coordination
- ✓ ROW Acquisition
- ✓ Erosion & Sedimentation Control
- ✓ Multiple Bridges On 1 Contract
- ✓ Cored Slabs / Box Beams
- ✓ Staged Construction

Bridges		Length	Location (Co.)
1	Single span box beam	100'	Alleghany
2	Three span cored slab	150'	Alleghany
3	Single span box beam, staged	70'	Wilkes

h. Self-Assessment. The information provided in this section should be a self-assessment of Dane's performance on the project to identify Dane with firms or personnel that have successfully completed projects on time and on or under budget, and to identify Lead Designer that have records of managing contracts to minimize delays, claims, dispute proceedings, litigation, and arbitration.

The permanent sheeting required on one of the box beam bridges was required to fit the existing grades of the roadway and the hydraulic requirements of the bridge. Bridge length could not be increased due to other factors and permanent sheeting with a tieback system was the solution. Another bridge was required to be staged to maintain traffic on this dead-end road. Colin is the Assistant Project Manager on this project which will complete on time and within budget.

i. Quality Initiatives. Discuss Dane's quality initiatives including, but not limited to, cost control, schedule management and adherence, avoidance of claims, and other pertinent initiatives enhancing quality on the project.

Dane worked three weeks straight in the late fall of 2022 to mitigate the effects of supply chain issues on box beam delivery.




Each month and also weekly on this project, a review of the previous weeks costs are reviewed by the PM, Estimating, and President. Monthly safety audits are conducted and reviewed by the PM, safety committee and the President.

Adherence to the plans and specifications is outlined in the DCI Construction Manual that each PM, APM, and Supervisors review. The manual provides the exact method / procedures for each construction phase.


j. For each question in Section 3.5.2 of the RFQ for which a "Yes" answer was provided, Dane shall provide a detailed explanation below.

No to each of the questions


WORK HISTORY AND QUALITY FORM – LEAD DESIGNER

a. Project Name & Location (City, State)	b. Name of lead responsible for the overall project design or construction	c. Contact information of the Client & their Project Manager who can verify Palmetto’s responsibilities	d. Actual or Estimated Construction & Professional Services Completion Date	e. Actual or Estimated Project Construction Cost (in thousands)	f. Dollar Value of Work Performed by CTEA (in thousands)
Name: EBP 2020-1 DB Location: York & Anderson Counties, SC	Name: 	Name of Owner: SCDOT Project Manager: Michael Pitts Phone: 803-737-2566 Email: PittsME@scdot.org	Construction 12/2020 Design 07/2020	\$ 3,173	\$ 746
g. Narrative describing the work performed by Palmetto Infrastructure.					
<div>Subconsultants: R&D (Heather Robbins)</div>		<p>Bridge, roadway, hydraulics, geotech, supplemental survey, permitting, ROW acquisition, public involvement, and construction engineering services for two bridge replacements using low volume criteria. Existing bridges were damaged in flooding in 2019 and required to be completed on an accelerated schedule. This includes recovering from a second flood, immediately post award, that changed the site and scope of work at S-174. The existing bridge completely collapsed during the second flood, and embankment material leading up to the bridge was washed away. Supplemental survey and additional concept design was performed immediately following the flood.</p> <p>S-816 over Mud Creek (left photo): 160’ 3-span bridge (45’-70’-45’) on 15 degree skew. End bents utilized steel pile foundations, interior bents used concrete composite piles with steel stingers, superstructure consisted of 24” cored slab units with AWS overlay. Span arrangement was modified from SCDOT layout to push interior bents away from the top of bank. Flowable fill and rip rap scour protection used at interior bents to eliminate the need for predrilling piles or drilled piers. 24” cored slabs used for 45’ spans to eliminate steps in pier cap, and designed for Top Down Construction methods.</p>		 	
<div>Key Personnel: Derek Staton, Lead Design Engineer Patrick Gaynor, Structures Design Work Location: Charlotte, NC</div>		<p>S-174 over Six and Twenty Creek (center photo): 70’ single span bridge widened to accommodate roadway curvature. End bents utilized steel pile foundations, superstructure consisted of 24” cored slab units with AWS overlay. The roadway embankment of the bridge was reconstructed to pre-storm conditions as allowed by the Nationwide Permit. This helped control the bridge length and minimize roadway work. Large rip rap (several feet in diameter) were retained from the existing embankment and reused to protect the upstream toe of slope. Additional verification of hydraulic models performed after the second flood using available rain gage data to verify hydraulic capacity of bridge opening.</p>			
h. Self-Assessment. The information provided in this section should be a self-assessment of CTEA’s performance on the project to identify CTEA personnel that have successfully completed projects on time and on or under budget, and to identify CTEA’s records of managing contracts to minimize delays, claims, dispute proceedings, litigation, and arbitration.					
<p>The project was completed on-time, on-budget and CTEA received above average scores from SCDOT for this work. Comments include: Team has been very cooperative and responsive to any conflicts presented. CTEA has done an excellent job with communication when anything arose. The design build team worked well with SCDOT to quickly determine a solution to fix the S-174 design after inclement weather changed the conditions of the bridge.</p> <p>S-816 plans were submitted on schedule, S-174 plans were delayed slightly due to second flood, but overall project maintained the original schedule.</p>					
i. Quality Initiatives. Discuss CTEA’s quality initiatives including, but not limited to, cost control, schedule management and adherence, avoidance of claims, and other pertinent initiatives enhancing quality on the project.					
<p>S-816 plans were submitted on schedule, S-174 plans were delayed slightly due to second flood, but overall project maintained the original schedule. SCDOT noted: Team has been very cooperative and responsive to any conflicts presented. CTEA has done an excellent job with communication when anything arose.</p>					
j. For each question in Section 3.5.2 of the RFQ for which a “Yes” answer was provided, Palmetto shall provide a detailed explanation below.					
Not Applicable. All answers are “NO”.					

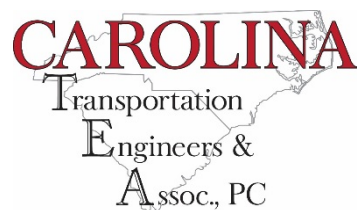
WORK HISTORY AND QUALITY FORM – LEAD DESIGNER

a. Project Name & Location (City, State)	b. Name of lead responsible for the overall project design or construction	c. Contact information of the Client & their Project Manager who can verify CTEA’s responsibilities	d. Actual or Estimated Construction & Professional Services Completion Date	e. Actual or Estimated Project Construction Cost (in thousands)	f. Dollar Value of Work Performed by CTEA (in thousands)
Name: Bundle 16 DB Package Location: Pickens County, SC	Name: 	Name of Owner: SCDOT Project Manager: Michael Pitts Phone: 803-413-9316 Email: pittsme@scdot.org	Construction 2026 Design 2024	\$31,927	\$ 5,000
g. Narrative describing the work performed by CTEA.					
<div>Key Personnel: Derek Staton, Lead Design Engineer Hisham Abdelaziz, Lead Roadway Pat Gaynor, Structures / Constructability Design Work Location: Charlotte, NC; Columbia, SC; Charleston, SC; Greenville, SC</div>		CTEA is performing project management, bridge, roadway, hydraulics, geotech, supplemental survey, permitting, ROW acquisition, public involvement, and construction engineering services for 5 bridge replacements. 3 bridges are replaced on alignment and 2 are replaced via staged construction while maintaining traffic. Bridges include AASHTO Type III girders and 72” FIB girder spans – ranging from 75 ft to 140 ft. Substructures include drilled piles and encased driven piles. CTEA is providing construction engineering services for the project including temporary wall designs.			
h. Self-Assessment. The information provided in this section should be a self-assessment of CTEA’s performance on the project to identify CTEA personnel that have successfully completed projects on time and on or under budget, and to identify CTEA’s records of managing contracts to minimize delays, claims, dispute proceedings, litigation, and arbitration.					
CTEA received approval for RFC drawings for the first bridge just a couple months after NTP. All design work should be complete within a year – leading to a final construction completion that is expected to be 15 months or more ahead of schedule.					
i. Quality Initiatives. Discuss CTEA’s quality initiatives including, but not limited to, cost control, schedule management and adherence, avoidance of claims, and other pertinent initiatives enhancing quality on the project.					
The PII / CTEA bid was nearly \$13 million lower than the next lowest bidder – due in large part to the innovations put in the project through ATCs. Since, we have received approval for closing a roadway and replacing a bridge on alignment, which will save over a year of construction and an additional \$3.5 million to the SCDOT for ROW, Utility Relocations, design reviews and CEI services.					
j. For each question in Section 3.5.2 of the RFQ for which a “Yes” answer was provided, CTEA shall provide a detailed explanation below.					
Not Applicable – All questions are answered with a “NO”.					

WORK HISTORY AND QUALITY FORM – LEAD DESIGNER

a. Project Name & Location (City, State)	b. Name of lead responsible for the overall project design or construction	c. Contact information of the Client & their Project Manager who can verify CTEA’s responsibilities	d. Actual or Estimated Construction & Professional Services Completion Date	e. Actual or Estimated Project Construction Cost (in thousands)	f. Dollar Value of Work Performed by CTEA (in thousands)
Name: I-95 Widening MM 0 to MM 8 Location: Jasper County, SC	Name: KCI Technologies, Inc 	Name of Owner: SCDOT Project Manager: Craig Winn, PE Phone: 803-737-6376 Email: winncl@scdot.org	Construction 2029 Design 2023	\$ 600,000	\$ 3,500
g. Narrative describing the work performed by CTEA.					
<div>Key Personnel: Derek Staton, Lead Design Engineer Pat Gaynor, Structures / Constructability Design Work Location: Charlotte, NC; Columbia, SC; Charleston, SC; Greenville, SC</div>		CTEA is performing bridge design, bridge QA and Risk Management for the Project. We are performing the design of twin I-95 bridges over Union Creek. The bridges carry 4 lanes and full shoulders across an overflow of the Savannah River. The 540 ft bridges include 7 spans of AASHTO girders on a 45 degree skew on multi-column bents and drilled shaft foundations. The NBL bridge will be constructed in a single phase of construction. The SBL bridge is staged to allow for MOT during construction. CTEA is performing design of two multi-barrel culverts via staged construction.			
CTEA is performing QA for all other bridges on the project including the twin Savannah River Bridges, dual Sand Island Swamp bridges, I-95 over CSX RR, John Smith Road over I-95 and US 278 interchange replacement. All bridges on the project are AASHTO girder or Steel plate girder bridges. All mainline bridges are constructed to the ultimate 4-lane section with the SBL stage constructed. Overpass bridges are constructed to allow for 4 lanes underneath.					
Last, CTEA is leading the Risk Management for the project. This role utilizes CTEA for constructability reviews, MOT reviews, bridge and roadway design reviews, and puts a special emphasis on drainage reviews – particularly the temporary drainage during construction.					
h. Self-Assessment. The information provided in this section should be a self-assessment of CTEA’s performance on the project to identify CTEA personnel that have successfully completed projects on time and on or under budget, and to identify CTEA’s records of managing contracts to minimize delays, claims, dispute proceedings, litigation, and arbitration.					
KCI is delivering this project on a very aggressive 24 month schedule. CTEA has produced every deliverable to date on schedule and of high quality. There are no unresolved issues on the project. As part of the Risk Management on the project, CTEA consistently monitors issues and risks that threaten the schedule, and assist in the development of mitigation strategies.					
i. Quality Initiatives. Discuss CTEA’s quality initiatives including, but not limited to, cost control, schedule management and adherence, avoidance of claims, and other pertinent initiatives enhancing quality on the project.					
CTEA started the project by developing a innovative MOT pattern for the construction of the first five miles of the project. This allows all median drainage to be updated, replaced or supplemented away from traffic and with open cuts – a significant cost control versus Jack and Bore pipes. We continue to work on the project in a Risk Management and Value Engineering role to enhance the quality of the project. We have identified over 200 risks on the project and are actively mitigating more than 20. From permitting, to MOT, to constructability – CTEA is involved in every aspect of the project, enhancing the quality of the final deliverable.					
j. For each question in Section 3.5.2 of the RFQ for which a “Yes” answer was provided, CTEA shall provide a detailed explanation below.					
Not Applicable – All questions are answered with a “NO”.					

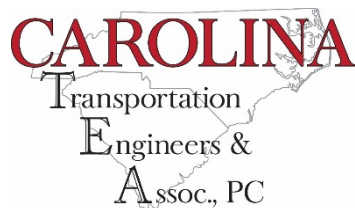
Appendix B – Work History and Quality Form - Designer
SCDOT Design Build Project
I-85 at I-385 Wall Improvement
Project ID P042302



Section 3.5.2 - Quality of Past Performance

Question		Dane	Carolina TEA
3.5.2.a	Has the Lead Contractor or any member of the joint venture been declared delinquent or placed in default on any Project?	No	N/A
3.5.2.b	Has the Lead Contractor or any member of the joint venture submitted a claim on a project that was litigated? If litigated, explain the results.	No	N/A
3.5.2.c	Have any design-build projects or projects of similar scope been delayed more than 30 days such that liquidated damages were assessed?	No	No
3.5.2.d	Has the Lead Contractor been cited by OSHA for violations deemed serious, willful, or repeated?	No	N/A
3.5.2.e	Have any projects under contract with the Lead Contractor or any member of the joint venture been subject to remediation actions, stop work orders, or project delays in excess of 30 days as a result of Section 404/Section 401 permit violations?	No	N/A
3.5.2.f	Has an owner, a Lead Contractor, or any member of a joint venture pursued compensation from the Lead Designer due to errors and omissions?	No	No
3.5.2.g	Has the Lead Designer filed legal proceedings against the Lead Contractor, or vice versa, on a design-build contract?	No	No

Appendix D – Legal and Financial
SCDOT Design Build Project
I-85 at I-385 Wall Improvement
Project ID P042302



Dane Construction, Inc.
PO Box 800
Mooresville, NC 28115
Telephone 704-664-5042
Fax 704-663-2475



January 3, 2024

Office of Alternative Delivery
SC Department of Transportation
955 Park Street
Columbia, SC 29201

RE: I-85 at I-385 Wall Improvement Design Build, Greenville County, Project ID
P042302

Subject: Financial Capacity Letter

To Whom It May Concern,

According to Section 3.6.1 Financial Capacity of Request for Qualifications (RFC) for the Design
Build Project ID PO42302 by SCDOT issued December 14, 2023:

I, Michael E Dane, in my capacity as CEO and Owner of Dane Construction, Inc. certify that Dane
Construction, Inc. has the financial capacity and resources necessary to complete the project as
proposed in the RFQ.

Respectfully,

Michael E. Dane
CEO
Dane Construction, Inc.

State of NC County of Iredell

The foregoing instrument was acknowledged before me
this 3rd day of January, 2024.

By: [Signature] - Kristin Drinka
Notary Public

My Commission Expires: 09/26/2025





Surety Department

Marsh McLennan Agency
5605 Carnegie Boulevard, Suite 300
Charlotte, NC 28209
T +1 704 365 6213
www.MarshMMA.com

South Carolina Department of Transportation
PO Box 191
Columbia, SC 29202

January 4, 2024

Subject: Dane Construction, Inc., Mooresville, NC
Project: I-85 at I-385 Wall Improvement, Design-Build Project ID P042302, Greenville County

To Whom It May Concern:

We are pleased to confirm our surety bond relationship with Dane Construction, Inc. Dane Construction, Inc. has been a client of ours for many years, in which we have approved bonds in excess of \$25,000,000. Currently, we handle their surety needs through Travelers Casualty and Surety Company of America, which is one of the leading surety companies in the country. They are authorized to transact business in the State of South Carolina and have an A. M. Best rating of A++ (Superior) and are on the current Department of the Treasury's Listing of Approved Sureties {Dept. Circular 570}.

This letter is to advise you Travelers Casualty and Surety Company of America is prepared to provide the necessary Performance and Payment Bond in connection with the above captioned project as required. As always, Travelers Casualty and Surety Company of America reserves the right to perform normal underwriting at the time of any bond request, including, without limitation, prior review and approval of relevant contract documents, bond forms, and project financing. We have complete confidence in Dane Construction, Inc.'s ability and its management, as they are financially responsible and handle all of their business dealings in a very professional manner.

We consider Dane Construction, Inc., Inc., a valued client and we continue to value our relationship with them. Please feel free to contact us with any additional questions you may have regarding either their surety program or our relationship with our client.

Should you desire any additional information concerning this fine company, please do not hesitate to call.

Sincerely yours,

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA


Angela Y. Buckner
Attorney-in-Fact

This document is not intended to be taken as advice regarding any individual situation and should not be relied upon as such. Marsh & McLennan Agency, LLC shall have no obligation to update this publication and shall have no liability to you or any other party arising out of this publication or any matter contained herein. Any statements concerning actuarial, tax, accounting or legal matters are based solely on our experience as consultants and are not to be relied upon as actuarial, accounting, tax or legal advice, for which you should consult your own professional advisors. Any modeling analytics or projections are subject to inherent uncertainty and the analysis could be materially affected if any underlying assumptions, conditions, information or factors are inaccurate or incomplete or should change. Copyright © 2022 Marsh McLennan Agency, LLC. All rights reserved. CA Insurance Lic: 0H18131, MarshMMA.com



Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **ANGELA Y BUCKNER** of **CHARLOTTE, North Carolina**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April, 2021**.



State of Connecticut

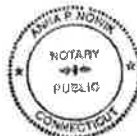
City of Hartford ss.

By: 
 Robert L. Raney, Senior Vice President

On this the **21st** day of **April, 2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**




 Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

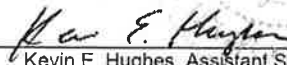
FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **4th** day of **January**, **2024**



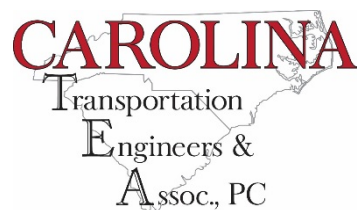

 Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

3.6.3 Organizational Agreements:

Not Applicable. Our team is not a partnership, limited partnership, joint venture or other association.

Appendix E – Organizational Conflict of Interest
SCDOT Design Build Project
I-85 at I-385 Wall Improvement
Project ID P042302



DISCLOSURE OF POTENTIAL CONFLICT OF INTEREST CERTIFICATION

PROPOSER hereby indicates that it has, to the best of its knowledge and belief has:

☒ Determined that no potential organizational conflict of interest exists.

☐ Determined a potential organizational conflict of interest as follows:

Attach additional sheets as necessary.

1. Describe nature of the potential conflict(s):

2. Describe measures proposed to mitigate the potential conflict(s):



Signature

1/4/2024

Date

Adam Holcomb, PE

Print Name

Dane Construction, Inc.

Company

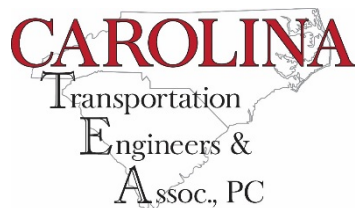
If a potential conflict has been identified, please provide name and phone number for a contact person authorized to discuss this disclosure certification with Department of Transportation contract personnel.

Name

Phone

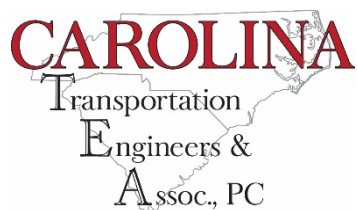
Company

Appendix F - Confidential or Proprietary Information
Summary List
**SCDOT Design Build Project
I-85 at I-385 Wall Improvement
Project ID P042302**



The Team of Dane Construction, Inc. (Contractor) and Carolina Transportation Engineers & Associates (Designer) do not deem any of the information within this submittal as confidential.

Appendix G - Addendum Receipt Forms
SCDOT Design Build Project
I-85 at I-385 Wall Improvement
Project ID P042302



N/A - No addendum issued on this project to date.

Appendix H - Key Individual and Contractor –
Designer Reference Form
SCDOT Design Build Project
I-85 at I-385 Wall Improvement
Project ID P042302



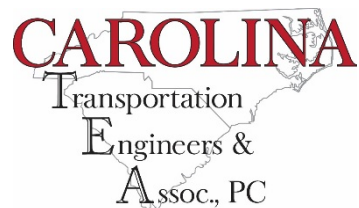
Email	First Name	Last Name	Company Name	Project Name	Team
greenfk@scdot.org	Keith	Green	SCDOT	US 176 Over Deans Swamp	Dane
cdjustice@ncdot.gov	Colby	Justice	NCDOT	NCDOT Division 13B D-B Bridge Package C203573	Dane
rsmiles@ncdot.gov	Randell	Miles	NCDOT	NCDOT Division 11 D-B Bridge Package C204611	Dane
pittsme@scdot.org	Michael	Pitts	SCDOT	EBP 2020-1 DB	CTEA
winncl@scdot.org	Craig	Winn	SCDOT	I-95 Widening MM 0 to MM 8	CTEA
pittsme@scdot.org	Michael	Pitts	SCDOT	Bundle 16 DB	CTEA



Email	First Name	Last Name	Key Individual Name	Project Name	Role of Key Individual	Team
rhancock@hntb.com	Ron	Hancock	Adam Holcomb	NCDOT Division 13B D-B Bridge Package C203573	Project Manager	Dane
rhancock@hntb.com	Ron	Hancock	Adam Holcomb	NCDOT Division 10 D-B Bridge Package C202980	Project Manager	Dane
bsmith@dmp.com	Brian	Smith	Adam Holcomb	NCDOT Division 7 D-B Package C2001302	Project Manager	Dane
cdjustice@ncdot.gov	Colby	Justice	Colin Darling	NCDOT Division 13B D-B Bridge Package C203573	Asst. Project Manager	Dane
usrybm@scdot.org	Bobby	Usry	Colin Darling	SCDOT US 278 Bridge over Three Runs Creek (ID 0039096)	Asst. Project Manager	Dane
jordonjc@scdot.org	Jeffery	Jordan	Colin Darling	SCDOT Batesville Road Bridge over Rock Creek (ID 00378686)	Asst. Project Manager	Dane
smiller@hickorync.gov	Steve	Miller	Colin Darling	City of Hickory 46th Ave. Drive NE Bridge over Snow Creek	Superintendent	Dane
taylorJL@scdot.org	Jeffery	Taylor	Colin Darling	SCDOT US Hwy 1 Bridge over S Edisto River (ID 0029920)	Asst. Project Manager	Dane
GreenFK@scdot.org	Keith	Green	Adrian Noreiga	SCDOT Highway 176 over Dean Swamp and Overflow	Construction Manager	Dane
Michael.Gantt@uig.net	Michael	Gantt	Adrian Noreiga	NCDOT Monroe Bypass, Structures B1800, B1900, B2400, B2500, C202587	Construction Manager	Dane
ehunter@ncdot.gov	Nat	Hunter	Adrian Noreiga	NCDOT Division 10 D-B Bridge Package C202980	Construction Manager	Dane
caguffey@ncdot.gov	Chris	Guffey	Adrian Noreiga	NCDOT On I-40 and over NC-18 C202622	Construction Manager	Dane
taylorJL@scdot.org	Jeffery	Taylor	Adrian Noreiga	SCDOT US Hwy 1 Bridge over S Edisto River	Construction Manager	Dane
pittsme@scdot.org	Michael	Pitts	Derek Staton	EBP 2020-1 DB	Lead Design Engineer	CTEA
mattoxJH@SCDOT.org	Jae	Mattox	Derek Staton	EBP 2018-2A DB	Lead Design Engineer	CTEA
BosticTI@SCDOT.org	Tameika	Bostic	Derek Staton	S-349 Bridge Replacement over Sandy Branch	Structures Engineer	CTEA
grovesme@scdot.org	Megan	Groves	Derek Staton	I-95 Widening MM 0 to MM 8	Risk Manager	KCI
pittsme@scdot.org	Michael	Pitts	Hisham Abdelaziz	SCDOT Design Build Bridge Package 16	Lead Roadway	CTEA
winncl@scdot.org	Craig	Winn	Hisham Abdelaziz	SCDOT US 278 Corridor Improvements	Lead Design Engineer	CDM
bdcanipe@ncdot.gov	Brett	Canipe	Hisham Abdelaziz	NCDOT U-6103 – US 74 Express Lanes Design	Project Manager	CDM
Unknown	Unknown	Unknown	Pat Gaynor	S.R. 0006 Design Build Wall Replacement	Lead Design Engineer	HDR
Unknown	Unknown	Unknown	Pat Gaynor	S.R. 0019, Section A27 West End Improvements	Lead Design Engineer	HDR
lee.bradley@Blytheconstruction.com	Lee	Bradley	Pat Gaynor	I-485 Wall Facing Design	Lead Design Engineer	Tunstall
dteague@ncdot.gov	David	Teague	Matt Lattin	Bridge No. 780001 on SR 2817 (Barnes Street) over US 29	Sr Geotechnical Engineer	ESP
ross@cowannakios.com	Ross	Cowan	Matt Lattin	The Morris	Sr Geotechnical Engineer	ECS
bret.gillis@stantec.com	Brett	Gillis	Matt Lattin	US21/I-26 Interchange Improvements	Sr Geotechnical Engineer	ECS



Appendix I - Unique Entity Identification
SCDOT Design Build Project
I-85 at I-385 Wall Improvement
Project ID P042302



Unique ID

Unique ID	Name
F37NLYDMWYP8	Dane Construction, Inc.
NKE8MYLPKBV6	Carolina Transportation Engineers & Associates, PC