

# Statement of Qualifications

Submitted to:



## BRIDGE PACKAGE 18 DESIGN-BUILD PROJECT CONTRACT ID 2662300 Horry County, SC

June 20, 2024

Submitted by:





# NAVIGATION

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For ease of reference and navigation [Blue Bold Underlined Text](#) indicates links to various items in the Appendix

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## INTRODUCTION (RFQ 3.2)

**Contracting Entity: (RFQ 3.2.1):** Dane Construction, LLC (Dane) will be the sole Contracting Entity for the Bridge Package 18 (the “Project”). The Project will be managed from Dane’s office in Mooresville, NC.

### CONTRACTING ENTITY CONTACT

**Adam Holcomb, PE**  
280 Mooresville Boulevard  
Mooresville, NC 28115  
(M) (704) 431-3716  
[Adam@DaneConstruction.com](mailto:Adam@DaneConstruction.com)

### Proposer Points of Contact (RFQ 3.2.2):



**Adam Holcomb, PE**  
280 Mooresville Boulevard  
Mooresville, NC 28115  
(M) (704) 431-3716  
[Adam@DaneConstruction.com](mailto:Adam@DaneConstruction.com)



**Andy Gillis, PE**  
110 Midlands Court  
West Columbia, SC 29169  
(M) (803) 319-1297  
[andy.gillis@ice-eng.com](mailto:andy.gillis@ice-eng.com)

### Full Legal Firm Names (RFQ 3.2.3):

**Lead Contractor:** Dane Construction, LLC

**Lead Designer:** Infrastructure Consulting & Engineering, LLC

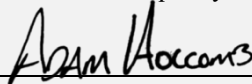
### Unique Entity ID for Lead Contractor and Lead Designer (RFQ 3.2.4):

**Primary Contractor:** F37NLYDMWYP8

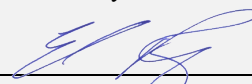
**Primary Designer:** JL1KHGKFCVF6

### Commitment Statement (RFQ 3.2.5):

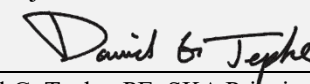
All Key Personnel required by the RFQ are shown in the Organizational Chart, are fully committed to meeting SCDOT’s quality and schedule expectations and are fully available for the duration of the Project.



Adam L. Holcomb, PE, Dane President



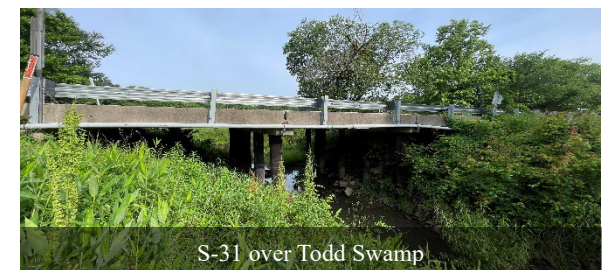
Elham Farzam, ICE President / CEO



David G. Tepke, PE, SKA Principal Engineer

## TEAM ACKNOWLEDGEMENTS & COMMITMENTS

- ✓ We understand SCDOT’s priority for the bridge rehabilitation/replacement program is **reducing the number of load-posted bridges**.
- ✓ We have assembled a **proficient** Team of design and construction professionals that **exceed the experience requirements** of this RFQ.
- ✓ We have reviewed the sites and will deliver an **organized set of plans and procedures** to ensure our Team achieves a **consistent, high-quality work product**.
- ✓ Our Team is **immediately available** upon notice of award to begin work and will do so at our own risk so that we can ensure delivery of the Project **on time and on budget**.

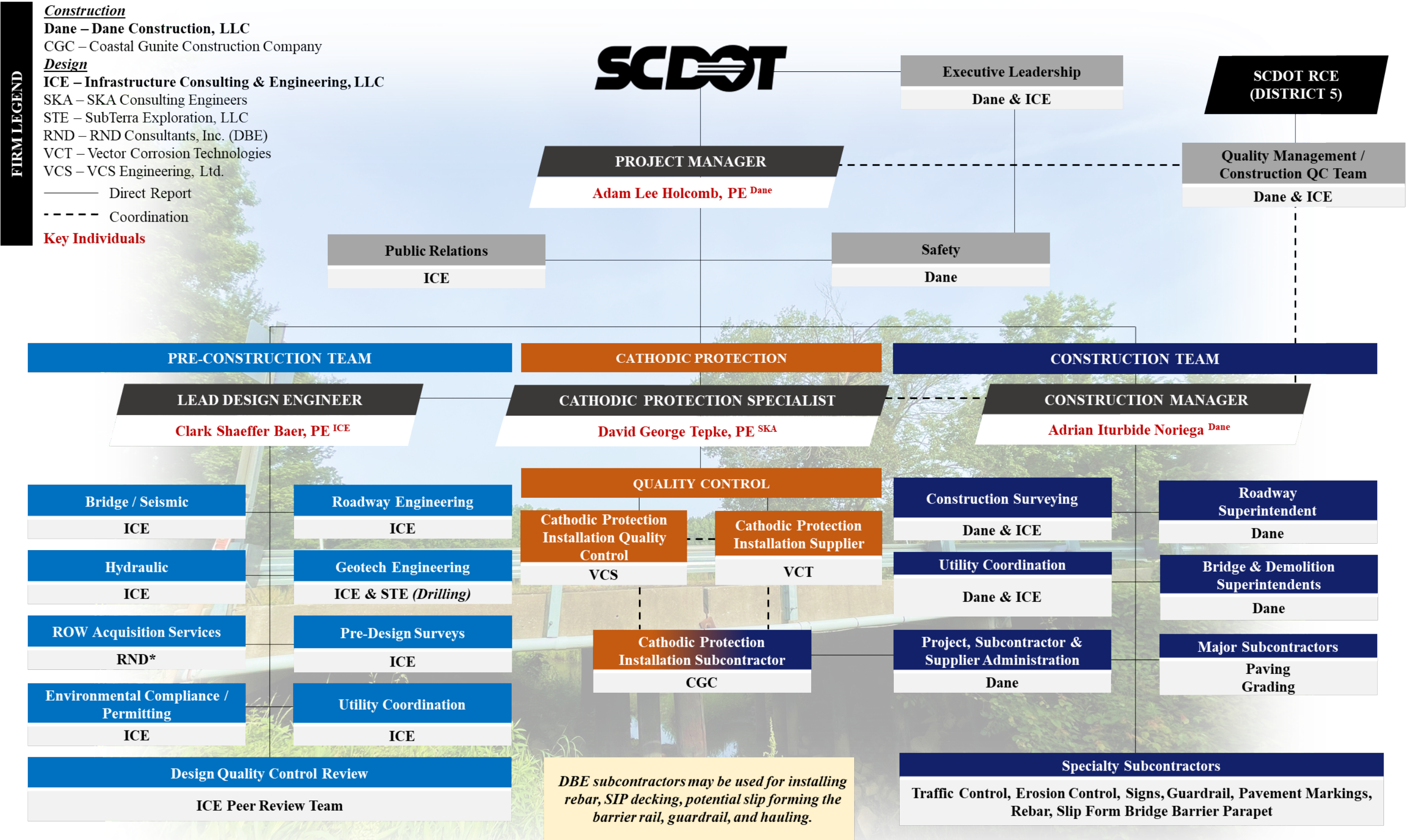


S-31 over Todd Swamp



S-154 over Murrells Inlet Creek

TEAM STRUCTURE AND PROJECT EXECUTION (RFQ 3.3)





**Significant Functional Relationships** As the Project Manager, [Adam Holcomb, PE](#), will be the primary project contact for SCDOT and provide integral leadership for the Dane-ICE Team from procurement to closeout. Reporting directly to the Project Manager, Lead Design Engineer, [Clark Baer, PE](#), will coordinate preconstruction efforts with Adam and actively manage all design discipline leaders and design delivery. To ensure the development of optimal cathodic protection design for the S-154 bridge, ICE and Dane have selected *SKA Consulting Engineers*, who will provide [David Tepke, PE](#), as the Team's Cathodic Protection Specialist. David will work with Clark during the S-154 bridge's pre-design/design activities to oversee the implementation of cathodic protection. Construction Manager, [Adrian Noriega](#), will report to Adam and engage in cooperative efforts with other key individuals while effectively managing construction superintendents and foremen, as well as coordination of suppliers and subcontractors.

**Previous Working Relationships** The relationships established between Adam Holcomb and the geotechnical staff at ICE go back more than 15 years. This relationship originated during Adam's tenure as a Project Manager at Dane, while Michael Valiquette and Chris Kreider, currently with ICE, were employed by NCDOT where they reviewed construction submittals and solved bridge foundation problems for projects across the eastern half of the state. This previous working relationship has continued through ICE regularly providing foundation testing services to Dane in the Carolinas. The four companies specializing in cathodic protection within the Dane-ICE Team have well-established collaborative relationships, fostering collective expertise and ensuring high-quality solutions for cathodic protection design and installation.







**Table 3.3.1.i – Firms/Key Individuals Prior Working Relationship**

Project Type (DB: Design-Build or DBB: Bid-Build) Project Owner & Project Name Project Duration	REF *	Firms		Key Individuals					Added Value Individuals					
		Dane Prime	ICE Lead Design	PM AH	LDE CB	CPS DT	CM AN	DBC AG	Geotech MV	Utility MC	Env BS	APM NH	FOM CW	ET MW
DBB: SCDOT US 176 over Deans Swamp   2022	1	✓		✓			✓					✓		✓
DB: NCDOT Bridge Package C203573   2014-2018	2	✓		✓			✓						✓	
DB: SCDOT US 15 over Indian Field Swamp   2020	3		✓		✓			✓	✓		✓			
DB: SCDOT Emergency Bridge Package 2018-1   2019	4		✓		✓			✓	✓		✓			
DBB: SCDOT S-22 Bridge over Enoree River   2015-2018	5	✓		✓			✓							
DB: NCDOT Bridge Replacement C202980   2012-2016	6	✓		✓			✓							
DBB: Ridgeville Industrial Campus Access Rd Ph 2   2020-2023	7		✓		✓			✓	✓	✓				

\* References are provided in [Appendix H](#)



## Project Resources, Strategies, and Execution (RFQ 3.3.2)

Dane		ICE	
CAPACITY			
<ul style="list-style-type: none"><li>• 75 operations employees, 8 crews currently working in South Carolina.</li><li>• Dane’s current schedule and workload fit capacity needs.</li><li>• Multiple crews available by Spring/Summer. Ample resources to build this Project.</li><li>• Over 45 pieces of heavy equipment and existing relationships with local suppliers. In-house equipment: 5 crawler cranes (80 &amp; 110-ton), 1 hydraulic crane (50-ton), 9 track hoes, forklifts, rubber-tired backhoe, 3 pile hammers, vibro-hammer, D5 dozer, motor grader, smooth drum and sheep foot compactor.</li><li>• Ability to haul all equipment internally, providing maximum flexibility.</li><li>• Agreements in place with major heavy equipment rental companies with unlimited equipment to supplement our owned equipment.</li></ul>		<ul style="list-style-type: none"><li>• 493 staff firm-wide and 254 staff in SC, including 139 licensed professionals.</li><li>• 74 staff members and 28 licensed professionals located in the West Columbia (HQ) office.</li><li>• Successfully delivered seven SCDOT DB Bridge Packages as the lead design firm</li><li>• Multiple <i>award-winning</i> DB bridge replacement projects</li><li>• ICE has served as the lead design firm/major participant on <i>44 design-build projects</i> with a combined value of <i>\$4.5 Billion</i>.</li><li>• ICE has designed 220+ bridges through DB contracts.</li></ul>	
STRATEGIES TO IMPLEMENT AVAILABLE RESOURCES			
<ul style="list-style-type: none"><li>• Dane’s key personnel (Adam &amp; Adrian) have successfully worked together in same positions on NCDOT’s Monroe Bypass project (five bridges) and SCDOT’s US 176 over Deans Swamp.</li><li>• Dane has the staff available to perform work on both bridges simultaneously.</li><li>• Dane will ensure on-time deliverables of permanent materials and subcontractors’ commitments with the current supply chain.</li><li>• Proven track record of safely completing projects within budget and on-time.</li></ul>		<ul style="list-style-type: none"><li>• Pre-design meetings with Dane and SCDOT upon award and as required throughout project duration</li><li>• Lead Design Engineer, Geotechnical Engineer, Utility Coordinator, and Lead Environmental Compliance are experienced professionals with a thorough understanding of SCDOT design submittal/review processes, policies, and procedures.</li><li>• Multiple discipline leads are wrapping up active DB and DBB projects. This provides SCDOT with immediate availability to begin work after NTP.</li></ul>	
SELF-PERFORM			
<ul style="list-style-type: none"><li>• Removal of Existing Bridges</li><li>• Setting PSC Girders</li><li>• Decks/Flat Slabs</li></ul>		<ul style="list-style-type: none"><li>• Substructure</li><li>• Temporary Shoring/Cofferdams</li></ul>	<ul style="list-style-type: none"><li>• Bridge Design</li><li>• Roadway Design</li><li>• Hydrologic/Hydraulic Analysis</li><li>• MOT &amp; Signing/Marking</li><li>• Utility Coordination</li><li>• Environmental Permitting / Compliance</li><li>• Pre-Design Surveys</li><li>• Geotechnical Exploration / Design</li></ul>
CATHODIC PROTECTION TEAM			
<p>Coastal Gunite Construction Co. will provide <i>cathodic protection installation</i>.</p> 	<p>Vector Corrosion Technologies will supply <i>all cathodic protection materials</i>.</p> 	<p>VCS Engineering, Ltd. will provide <i>QC technicians (11 available) for cathodic protection installation</i>.</p> 	<p>SKA Consulting Engineers, Inc. will provide a <i>cathodic protection specialist</i> who will design <i>cathodic protection systems</i>.</p> 
MAJOR TASKS PERFORMED BY SUBCONTRACTORS/SUBCONSULTANTS			
<p>DBE subcontractors may be used for installing rebar, SIP decking, potential slip forming the barrier rail, guardrail, and hauling.</p>	<p>DBE-certified firm RND Consultants, Inc. will perform <i>ROW acquisition and coordination services</i>.</p> 	<p>SubTerra Exploration, LLC will perform <i>drilling services</i>.</p> 	

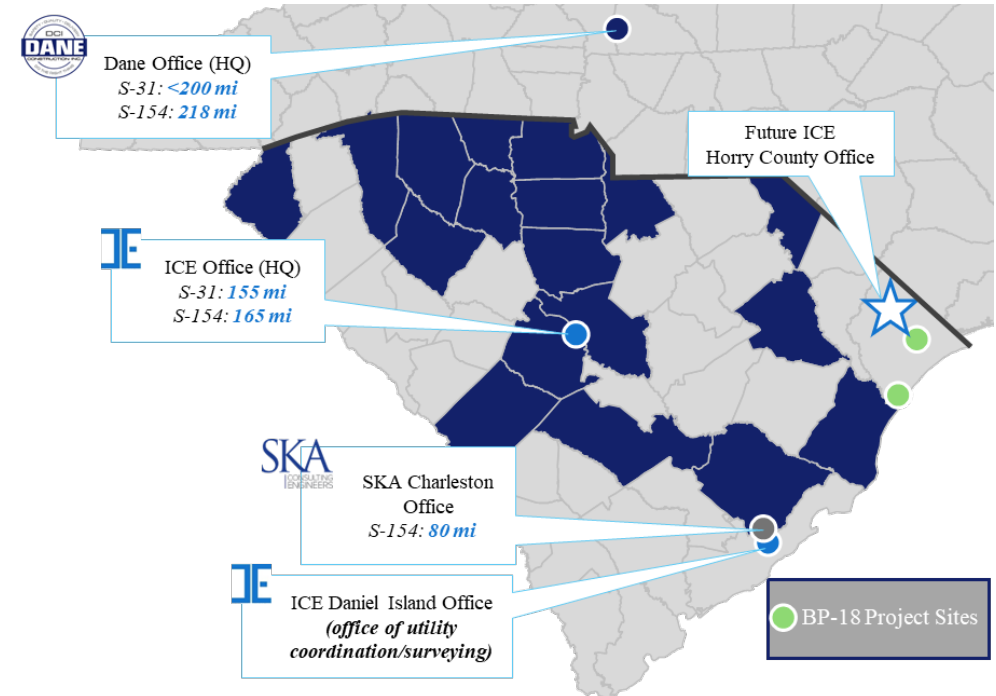


## Geographical Location Benefits:

ICE is currently working on 11 projects in Horry County. Two of the 11 ongoing projects involve bridge replacements that are on track to be completed within the next few months. Additionally, ICE recently completed foundation VE design for the Surfside Beach Fishing Pier, located two miles from the S-154 bridge site that included corrosion protection considerations for the steel piles. The design work carried out by ICE in this particular geographical area has allowed our Team to gain a deep understanding of working in the Coastal Zone and provides us with valuable experience working alongside SCDOT District 5 staff. ICE is currently looking for office space in Horry County and we expect to open an office within the next three months.

Additionally, our Cathodic Protection Specialist is based in South Carolina and is operating from an office located within 80 miles of the S-154 bridge site. SKA has designed Cathodic Protection systems for several structures within 10-15 miles of Horry County. Dane's headquarters is located in North Carolina; however, the staff at Dane has been involved in various construction projects across several counties in South Carolina as shown in the map (pictured right).





DANE LOCAL PRESENCE & RESOURCES
<ul style="list-style-type: none"> <li>✓ The <b>blue-shaded</b> areas highlight the counties where Dane has undertaken a range of project types within South Carolina.</li> <li>✓ Satellite/remote office in Daniel Island.</li> <li>✓ Dane will provide sufficient office space/office trailers on-site for weekly meetings during construction.</li> </ul>
ICE LOCAL PRESENCE & RESOURCES
<ul style="list-style-type: none"> <li>✓ ICE HQ office will be the primary location for meetings during project design.</li> <li>✓ ICE HQ office is <b>less than six miles</b> from SCDOT's HQ office. This proximity allows close coordination and immediate availability between ICE and SCDOT during the design phase.</li> <li>✓ The star on the map indicates the future ICE Horry County office. ICE anticipates opening an office within the next three months.</li> </ul>
VCT & VCS LOCAL PRESENCE
<ul style="list-style-type: none"> <li>✓ HQ offices in Tampa, FL – routinely performing work in the Carolinas.</li> </ul>
Throughout the life of the projects, the Dane-ICE Team will hold frequent in-person meetings between the design and construction team to ensure seamless communication.





## EXPERIENCE OF KEY INDIVIDUALS (RFQ 3.4)

Resumes demonstrating relevant experience of our Key Individuals are included in [APPENDIX A](#).

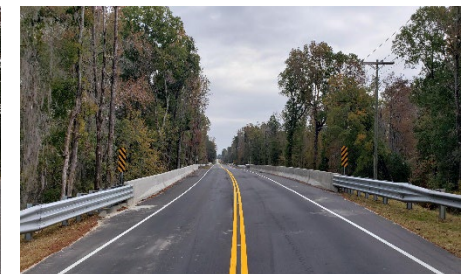
Key Individual Role - Name	Representative Project Experience
 <p><b>Project Manager – Adam Holcomb, PE (Dane)</b>   Over the course of 22 years, Adam has overseen the completion of more than 100 bridges ranging from cored slabs, box beams, pre-stress girders, and structural steel bridges in the Carolinas. He has the experience and full authority to execute contracts, negotiate and sign change orders, approve equipment purchases and rental agreements, and make commitments on behalf of the Dane-ICE Team.</p>	<ul style="list-style-type: none"> <li>• SC Hwy 176 over Dean Swamp (2 Bridges)</li> <li>• NC Bridge Package C203573 (11 Bridges)</li> <li>• NC Bridge Package C202980 (9 Bridges)</li> <li>• NC Bridge Package C204611 (3 Bridges)</li> </ul>
 <p><b>Lead Design Engineer – Clark Baer, PE (ICE)</b>   Clark has 11 years of structural design experience working on various projects, including bridge replacements, widening, and rehabilitations. His expertise includes superstructure and substructure strength and services design, vessel collision analysis and design, seismic design, retaining wall design, bridge inspections, plan preparation, and quality control reviews.</p>	<ul style="list-style-type: none"> <li>• SC Emergency Bridge Package 2018-1 (3 Bridges)</li> <li>• SC Bridge Package E (13 Bridges)</li> <li>• SC I-26 Widening MM 85-101 (10 Bridges)</li> <li>• SC Emergency Bridge Replacement Package 4 (4 Bridges)</li> </ul>
 <p><b>Cathodic Protection Specialist – David Tepke, PE, FACI (SKA)</b>   David is a registered professional engineer with more than 17 years of experience designing, installing and testing Galvanic Cathodic Protection Systems in reinforced concrete structures. David has performed Cathodic Protection Design on coastal structures throughout the Southeast and is certified as a CP-2 with AMPP. David will be involved throughout the project and will oversee the installation of Cathodic Protection Systems with the support provided by VCS who has 11 qualified technicians.</p>	<ul style="list-style-type: none"> <li>• SC Arcadian II Condominiums Seawall Concrete Repairs and Hybrid Cathodic Protection</li> <li>• SC Shipyard Village Condo Buildings A &amp; B Repairs</li> <li>• SC Litchfield Retreat Condominiums Structural Concrete Repairs</li> </ul>
 <p><b>Construction Manager – Adrian Noriega (Dane)</b>   Adrian has 23 years of experience in the transportation construction industry. He is responsible for the day-to-day management of construction activities for a variety of bridge types in the Carolinas. As a Construction Manager, Adrian has successfully completed multiple single and multi-span bridges with drilled shaft substructures, box beams, PSC girders, poured slabs, and reinforced decks.</p>	<ul style="list-style-type: none"> <li>• SC Hwy 176 over Dean Swamp (2 Bridges)</li> <li>• SC Bellefield Road over Sawney’s Creek</li> <li>• SC US Hwy 1 Bridge over South Edisto River</li> <li>• NC Bridge Package C202980 (11 Bridges)</li> </ul>
Added Value Individuals – Name	Representative Project Experience
<p><b>Design-Build Coordinator – Andy Gillis, PE (ICE)</b>   Andy has transportation design and construction experience gained through serving as a transportation designer, project engineer, estimator, and project manager on various projects since 1998. Throughout his career, he has managed and/or designed more than 100 bridge replacements. Andy and Clark (LDE) have worked together on numerous projects in the past, serving in similar roles.</p>	<ul style="list-style-type: none"> <li>• SC Emergency Bridge Package 2018-1 (3 Bridges)</li> <li>• SC US 15 over Indian Field Swamp</li> <li>• SC Package C Bridge Replacements (7 Bridges)</li> <li>• SC Package D Bridge Replacements (5 Bridges)</li> </ul>
<p><b>Lead Geotechnical Engineer – Michael Valiquette, PE (ICE)</b>   Michael has extensive experience in geotechnical engineering and construction. The last 18 years of his work have focused on design and construction support of complex geotechnical features on both traditional and Design-Build transportation projects across the Southeast. Michael’s design efforts include bridge foundation recommendations, pile-supported embankments, ground improvement through use of surcharges and lightweight fill materials, railway bridges and embankments, and slope failure mitigation.</p>	<ul style="list-style-type: none"> <li>• SC Horry County Surfside Beach Fishing Pier</li> <li>• SC Emergency Bridge Package 2018-1 (3 Bridges)</li> <li>• SC Emergency Bridge Package 2018-2B (4 Bridges)</li> <li>• GA I-285 Eastside Bridges (3 Bridges)</li> </ul>
<p><b>Lead Utility Coordination – Matthew Cox (ICE)</b>   Matthew is responsible for the location, relocation, and coordination of utility designs in roadway and highway engineering projects. He is adept at identifying conflicts between roadway and utility designs, as well as coordinating with engineers and utility providers to develop resolutions. Matthew has assisted in the relocation and coordination of utilities in multiple bridge replacement projects. In addition, he has worked on 10 projects within Horry County and has previous/existing functional relationships with all known utility owners within the project limits.</p>	<ul style="list-style-type: none"> <li>• SC US-17 Bypass Widening (Horry County)</li> <li>• SC I-20 Bridge Replacements (5 Bridges)</li> <li>• SC I-95 SB Bridge over SC 46 &amp; Bagshaw Swamp (3 Bridges)</li> <li>• SC 901 Bridge over Rocky Creek</li> </ul>

Added Value Individuals – Name (Continued)	Representative Project Experience
<p><b><u>Lead Environmental Compliance / Permitting – Barrett Stone (ICE)</u></b>   Barrett has experience providing environmental services for a variety of projects throughout South Carolina. He manages a team of environmental professionals that routinely conduct wetland delineations, natural resource assessments, compliance inspections, and negotiate jurisdictional determinations, Section 404 permits, and State 401 certifications. Barrett’s expertise includes NEPA documentation, environmental permitting, and environmental compliance, among other environmental-related services.</p>	<ul style="list-style-type: none"> <li>• SC Emergency Bridge Package 2018-1 (3 Bridges)</li> <li>• SC US 15 over Indian Field Swamp</li> <li>• SC I-20 Bridge Replacements (6 Bridges)</li> <li>• SC S-97 over Palmetto Swamp</li> </ul>
<p><b><u>Assistant Project Manager – Nathan Hedrick (Dane)</u></b>   Nathan has been with Dane for nearly 11 years and has experience in both NC and SC on projects up to \$27M. He has worked on numerous structural projects throughout the Carolinas, including SCDOT projects. As the Assistant Project Manager, Nathan will work in conjunction with the design and construction teams and attend weekly status meetings.</p>	<ul style="list-style-type: none"> <li>• SC Hwy 176 over Dean Swamp (2 Bridges)</li> <li>• SC 2353290 Greenville County McKelvey Road</li> <li>• NC C204112 New Bethel Church Road</li> </ul>
<p><b><u>Field Operations Manager – Cole White (Dane)</u></b>   Cole is an experienced Project Manager at Dane, with over 10 years at the firm. He has successfully managed multiple high-value projects, including bridge replacements and roadway constructions. As the Field Operations Manager, Cole’s responsibilities include cost management, project coordination, safety, scheduling, and client relations.</p>	<ul style="list-style-type: none"> <li>• SC US 278 Bridge over Three Runs Creek</li> <li>• SC US Hwy 1 over Edisto River</li> <li>• NC Bridge Package C204611 (3 Bridges)</li> <li>• NC Bridge Package C203573 (11 Bridges)</li> </ul>
<p><b><u>Engineer Technician – Matthias Watson (Dane)</u></b>   Matthias is a dedicated construction professional at Dane. Since joining in 2021, he has successfully built several projects, showcasing his passion for construction and excellent communication skills with owners, partners, and employees. As an Engineer Technician, Matthias will oversee staff, review and perform cost estimates, and ensure work meets SCDOT specifications.</p>	<ul style="list-style-type: none"> <li>• SC Hwy 176 over Dean Swamp (2 Bridges)</li> <li>• SC I-85 Design-Build</li> <li>• SC Cavendish Drive Stream Restorations/Pedestrian Path (2 Bridges &amp; Vehicle Culvert)</li> </ul>

*SCDOT US 176 over Deans Swamp*



*SCDOT Emergency Bridge Package 2018-1*





## PAST PERFORMANCE OF THE TEAM (RFQ 3.5)

**Experience of the Proposer's Team (RFQ 3.5.1)** | The Dane-ICE Team has included Work History and Quality Forms in [APPENDIX B](#).

CONTRACTOR WORK HISTORY		DESIGNER WORK HISTORY	
Dane Construction, LLC	Coastal Gunite Construction Co.	Infrastructure Consulting & Engineering, LLC	SKA Consulting Engineers
<a href="#"><u>US 176 over Deans Swamp</u></a>	<a href="#"><u>US 76 over Banks Channel</u></a>	<a href="#"><u>Emergency Bridge Package 2018-1</u></a>	<a href="#"><u>Arcadian II Condos Seawall Repairs</u></a>
			
<p><i>This bridge replacement project involved the following major project components similar to Bridge Package 18:</i></p> <p>Bridge Over Water Flat Slab Utility Relocations Bridge Demolition</p>	<p><i>This bridge rehabilitation project involved the following major project components similar to Bridge Package 18:</i></p> <p>Bridge Rehabilitation Cathodic Protection Installation Bridge Over Water Utility Relocations Coastal/Marine Environment</p>	<p><i>This bridge package involved the following major project components similar to Bridge Package 18:</i></p> <p>Bridge Replacement Bridge Over Water Utility Relocations Bridge Demolition Precast Concrete Beams</p>	<p><i>This project involved the following major project components similar to Bridge Package 18:</i></p> <p>Rehab Cathodic Protection Design Coastal/Marine Environment Horry County</p>
<p><i>Project was completed on time and on budget</i></p>	<p><i>Project was completed on time and on budget</i></p>	<p><i>Engineering Excellence Award – State Honor Award (2020)</i></p> <p><i>Design Completed 95 Days After NTP for S-50 Bridge</i></p>	<p><i>Project was completed on time and on budget</i></p>

### **Quality of Past Performance (RFQ 3.5.2)**

The Dane-ICE Team has included a statement in [APPENDIX C](#). Dane and/or ICE have never been suspended, debarred, disqualified from bidding, or declared ineligible to work by any entity, and no such actions are pending.

### **Financial Capacity, Bonding Capability, and Organizational Agreements (RFQ 3.6.1, 3.6.2, 3.6.3)**

A notarized financial capacity/resources statement and a surety letter are in [APPENDIX D](#). Dane is the sole contracting entity, therefore there are no joint venture organizational agreements.



# APPENDIX A

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## Key Individual Resume Forms

### Project Manager:

- Adam Lee Holcomb, PE

### Lead Design Engineer:

- Clark Shaeffer Baer, PE

### Cathodic Protection Specialist:

- David George Tepke, PE



### Construction Manager:

- Adrian Iturbide Noriega





## KEY INDIVIDUAL RESUME FORM

<b>Brief Resume of Key Individual anticipated for the Project.</b>		
a.	Name & Title: <b>Adam Lee Holcomb, PE, President</b>	
b.	Role of Key Individual for this Project: <b>Project Manager</b>	
c.	Name of Firm with which you are now associated: <b>Dane Construction, LLC</b>	
d. Years of Experience: With this Firm <u>22</u> Years      With Other Firms <u>2</u> Years <b>Employment History:</b> <b>Dane:</b> President – Responsible for delivery of all projects, management of operations, project management, annual business plan, estimating, human resources & safety. 2018 – Present. <b>Dane:</b> Vice-President – Responsible for project financials, project management, coaching/training, innovation, standardization, recruiting, human resources, estimating, & safety. 2015 – 2018 <b>Dane:</b> Assistant VP – Responsible for project management, standardization, and safety. 2012 – 2015 <b>Dane:</b> Project Manager – Responsible for estimating, coordination, safety, cost management, owner meetings, and project closeout. 2011-2012 <b>Dane:</b> Assistant Project Manager – Scheduling, surveying, bridge construction, and project closeout. 2002-2011 <b>NCDOT:</b> Engineering Assistant – Road and bridge maintenance, surveying, and roadway design. 2000-2002		
e. Education: <b>University of North Carolina / Charlotte, NC / Bachelor of Science / 2002 / Civil Engineering</b>		
f. Active Registrations: <b>2011 / North Carolina / Professional Engineer / 037888</b>		
g. Document the extent and depth of your experience and qualifications relevant to the Project. <b>1. NCDOT Division 11 Bridge Package C204611 (Three Bridges) – Alleghany and Wilkes Counties, NC</b> <div style="float: right; text-align: center;">  </div> <p><b>Key Personnel Role:</b> President</p> <p><b>Experience with Current Firm:</b> Yes, Dane Construction, LLC</p> <p><b>Project/Assignment Duration:</b> Project 2021-2023   Assigned 2021-2023</p> <p><b>Owner Contact Information:</b> NCDOT   Wiley Jones, PE   wwjones@ncdot.gov   919-707-2403</p> <p><b>Design/Construction Value:</b> \$4.11 Million</p> <p><b>Project Description:</b> This project included an Express Design Build for the NCDOT in multiple counties in Division 11. There are three 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 be completed in November of this year and wrap up Dane's fourth successful design-build project for NCDOT. As the <b>President</b> of this Project, Adam was responsible for managing the contract deliverables, safety, scheduling, suppliers/subcontractors, client correspondence, and design-build coordination to ensure successful project completion.</p> <p><b>Similarities to Bridge Package 18:</b> <i>Design Build, bridge replacement, utility coordination/relocations, bridge over water.</i></p>		
<b>2. SCDOT Highway 176 over Deans Swamp – Berkeley &amp; Orangeburg Counties, SC</b> <p><b>Key Personnel Role:</b> Vice President</p> <p><b>Experience with Current Firm:</b> Yes, Dane Construction, LLC</p> <p><b>Project/Assignment Duration:</b> Project 2020-2022   Assigned 2020-2022</p> <p><b>Owner Contact Information:</b> SCDOT   Keith Green, PE   greenfk@scdot.org   843-746-7903</p> <p><b>Design/Construction Value:</b> \$8.4 Million</p> <p><b>Project Description:</b> This was a phased construction project with over 0.6 miles of roadway and two bridges near Holly Hill, SC. Bridges consisted of concrete pile interior bents with pile excavation, steep pile end bents, and flat slab superstructure. Bridge 1 was a 160' 4-span flat slab bridge on concrete pile bents with staged construction. Bridge 2 was a 240' seven-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. As the <b>Vice President</b> of the Project, Adam was responsible for managing the contract deliverables, safety, scheduling, suppliers/subcontractors, client correspondence, and design-build coordination to ensure successful project completion.</p> <p><b>Similarities to Bridge Package 18:</b> <i>Bridge replacement, utility coordination/relocation, flat slab superstructure, bridge over water.</i></p>		

### 3. NCDOT Division 13B Bridge Package C203573 (11 Bridges) – Buncombe, Madison, & Mitchell Counties, NC

**Key Personnel Role:** Project Manager  
**Experience with Current Firm:** Yes, Dane Construction, LLC  
**Project/Assignment Duration:** Project 2014-2018 | Assigned 2014-2018  
**Owner Contact Information:** HNTB | Ron Hancock, PE | rhancock@hntb.com | 919-524-2387  
**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. Dane had nine phased bridges with two of them utilizing detours. On these bridges, Dane 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. As the **Project Manager**, Adam was responsible for managing the contract deliverables, safety, scheduling, suppliers/subcontractors, client correspondence, and design-build coordination to ensure successful project completion.

**Similarities to Bridge Package 18:** *Design Build, bridge demolition, bridge replacement.*

### 4. NCDOT Division 10 Bridge Package C202980 (Nine Bridges & One Culvert) – Anson, Union, Mecklenburg, & Cabarrus Counties, NC

**Key Personnel Role:** Project Manager  
**Experience with Current Firm:** Yes, Dane Construction, LLC  
**Project/Assignment Duration:** Project 2012-2016 | Assigned 2012-2016  
**Owner Contact Information:** HNTB | Ron Hancock, PE | rhancock@hntb.com | 919-524-2387  
**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. As the **Project Manager**, Adam was responsible for managing the contract deliverables, safety, scheduling, suppliers/subcontractors, client correspondence, and design-build coordination to ensure successful project completion.

**Similarities to Bridge Package 18:** *Design Build, bridge replacement, bridge over water, precast concrete beams, utility relocations, bridge demolitions.*

### 5. NCDOT Division 7 Package C2001302 (Single-Span Structural Steel) – Guilford County, NC

**Key Personnel Role:** Assistant Project Manager / Project Manager  
**Experience with Current Firm:** Yes, Dane Construction, LLC  
**Project/Assignment Duration:** Project 2004-2007 | Assigned 2004-2007  
**Owner Contact Information:** DMP | Brian Smith, PE | bsmith@dmp.com | 336-609-3736  
**Design/Construction Value:** \$7 Million



**Project Description:** This 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. As the **Assistant Project Manager/Project Manager**, Adam was responsible for managing the contract deliverables, safety, scheduling, suppliers/subcontractors, client correspondence, and design-build coordination to ensure successful project completion.

**Similarities to Bridge Package 18:** *Design Build, bridge replacement, bridge demolition, utility relocations.*

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. He will attend and lead weekly status meetings during the design and construction phases, and be available at the request of the SCDOT.



## KEY INDIVIDUAL RESUME FORM

### Brief Resume of Key Individual anticipated for the Project.

- a. Name & Title:  
**Clark Shaeffer Baer, PE, Structural Engineer**
- b. Role of Key Individual for this Project:  
**Lead Design Engineer**
- c. Name of Firm with which you are now associated: **INFRASTRUCTURE CONSULTING & ENGINEERING, LLC**
- d. Years of Experience: With this Firm **11** Years With Other Firms **0** Years



### Employment History:

**Infrastructure Consulting & Engineering, LLC:** Structural Engineer – Clark is responsible for preparing engineering designs for bridges with various elements including concrete prestressed beams, steel beams, flat slabs, box beams, abutments on steel piles, pile bents, shaft bents, drilled shafts, bearings, seismic, and load rating. He provides cost estimating, quantity calculations, and alternative report writing. Clark effectively collaborates with roadway, drainage, and geotechnical engineering disciplines to accomplish quality designs. 2013 – Present

- e. Education:  
**University of South Carolina / Columbia, SC / Master of Science / 2013 / Structural Engineering**  
**University of South Carolina / Columbia, SC / Bachelor of Science / 2004 / Biology**

- f. Active Registrations:  
**2018 / South Carolina / Professional Engineer / 35226**

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

### **1. SCDOT Emergency Bridge Package 2018-1 – Orangeburg and Dillon Counties, SC**

**Key Personnel Role:** Structural Engineer  
**Experience with Current Firm:** Yes, Infrastructure Consulting & Engineering, LLC  
**Project/Assignment Duration:** Project 01/2019 – 10/2019 | Assigned 08/2018 – 12/2018  
**Owner Contact Information:** SCDOT | Jae Mattox, PE | mattoxjh@scdot.org | 803-737-1805  
**Design/Construction Value:** \$8.7 Million



**Project Description:** This Design-Build project involved the replacement of three bridges including S-50 (Four Holes Road) over Interstate 26 in Orangeburg County and S-45 (Lester Road) over Little Pee Dee River and Swamp in Dillon County. All three bridges required formal seismic analysis and design in accordance with the SCDOT Seismic Design Specifications, and the S-50 site required a pushover analysis. Mike manages sound wall crews from drilling to setting the panels and manages deep foundations excavation work on the project. As a **Structural Engineer**, Clark coordinated with roadway, geotechnical, and hydrologic discipline leads and provided superstructure and substructure strength and service design and seismic design assistance and detailing. He was also responsible for plan development and quality control.

**Similarities to Bridge Package 18:** Design Build, bridge replacement, utility coordination/relocations, bridge over water, bridge demolition, precast concrete beams.

### **2. SCPA Timothy Creek Crossing (Roadway and Chassis Yard Improvements Phase 1) – Dorchester County, SC**

**Key Personnel Role:** Structures Manager / EOR  
**Experience with Current Firm:** Yes, Infrastructure Consulting & Engineering, LLC  
**Project/Assignment Duration:** Project 2019-2021 | Assigned 2020-2021  
**Owner Contact Information:** SCPA | Ed Stehmeyer, III, PE | estehmeyer@scpa.com | 843-860-0540  
**Design/Construction Value:** \$5.8 Million

**Project Description:** This project consisted of a new 4,679-foot-long asphalt paved access road with curb and gutter, a new stormwater drainage system, a new 20-acre on-site truck chassis / empty container storage yard, and the off-site widening of an existing road to provide efficient and safe access from the project site to the interstate. The work also entailed an on-site, two-mile-long access road with a new bridge crossing Timothy Creek that provides connectivity between the new distribution center, new container/chassis storage yard, and future tenant sites on the south side of the property. ICE analyzed the bridge for anticipated scour conditions and utilized exploration data and material testing data to prepare a geotechnical engineering report for the Project which addresses the design of the subgrade stabilization, earthwork, and pavement as well as the bridge and earthen causeway over Timothy Creek. As the **Structures Manager and EOR**, Clark was responsible for all structural aspects of the project, coordinated with various discipline leads, and provided the design, plans, and quality control of the new bridge.

**Similarities to Bridge Package 18:** Bridge over water, flat slab, utility relocations.

### 3. SCDOT Bridge Replacement (Package E) – Cherokee, Chester, Fairfield, Lancaster, and York Counties, SC

**Key Personnel Role:** Structural Designer  
**Experience with Current Firm:** Yes, Infrastructure Consulting & Engineering, LLC  
**Project/Assignment Duration:** Project 2016-2019 | Assigned 2014-2014  
**Owner Contact Information:** SCDOT | Shane Parris, PE | parrisSL@scdot.org | 864-489-5760  
**Design/Construction Value:** \$56 Million



**Project Description:** This bridge replacement package involved the design and construction of 13 replacement bridges at 12 sites located throughout the state. ICE served as the Lead Design Firm on the Design-Build Team responsible for providing preliminary design, structure, roadway, and hydrology designs, surveys, utility coordination, and contractor quality control. Additionally, the scope of the project included public relations, identifying utilities, and verifying existing right-of-ways early to avoid delays during construction. As a **Structural Designer**, Clark was responsible for preliminary bridge structural design, including superstructure and substructure elements. He was also responsible for reviewing structural design submittals.

**Similarities to Bridge Package 18:** *Design Build, bridge replacement, utility relocations, precast concrete beams.*

### 4. SCDOT Emergency Bridge Replacement Package 4 – Kershaw, Richland, and Williamsburg Counties, SC

**Key Personnel Role:** Structural Designer  
**Experience with Current Firm:** Yes, Infrastructure Consulting & Engineering, LLC  
**Project/Assignment Duration:** Project 2016-2017 | Assigned 02/2016-03/2016  
**Owner Contact Information:** SCDOT | Tyke Redfearn, PE | redfearnWT@scdot.org | 803-737-1430  
**Design/Construction Value:** \$11 Million



**Project Description:** This Design-Build project consisted of all work necessary, at four separate locations, to remove the remainder of the existing bridges and to construct new bridges, including the associated roadway and drainage work necessary to tie the new approaches to the existing roadways. As a result of flooding, the existing structures were damaged beyond repair. ICE was responsible for bridge design, utility coordination, and all associated roadway and drainage work necessary to tie the new approaches to the existing roadways and repair roadway embankments damaged during flooding. A variety of bridge replacement options were used. All four bridge sites were in FEMA special flood hazard zones; therefore, no rise/no impact studies were produced for three of the sites. The fourth site required the production of a FEMA letter of map revision (LOMR). The LOMR was approved with no comments by FEMA. As a **Structural Designer**, Clark was responsible for substructure design and checking plans and geometry at each bridge site.

**Similarities to Bridge Package 18:** *Design Build, bridge replacement, utility relocations.*

### 5. GDOT FY 17 Bridge Replacement Projects (Batch 2) – Districts 2, 3, & 4, GA

**Key Personnel Role:** Structural Engineer  
**Experience with Current Firm:** Yes, Infrastructure Consulting & Engineering, LLC  
**Project/Assignment Duration:** Project 2019-2020 | Assigned 2017-2018  
**Owner Contact Information:** GDOT | Andrew Hoenig, PE, DBIA | ahoenig@dot.ga.gov | 404-581-6000  
**Design/Construction Value:** \$7.8 Million




**Project Description:** This Design-Build bridge replacement project consisted of replacing six structurally deficient bridges on off-system routes. The typical structures consisted of precast, prestressed concrete superstructure supported on driven pile bents to minimize impacts to waterways and improve the speed of construction. The project included the preparation of a US Army Corps of Engineers 404 Permit for each crossing. ICE served as the Lead Design Consultant responsible for design management, roadway design, roadway/bridge hydrology, bridge design, geotechnical design, and utility coordination. As a **Structural Engineer**, Clark coordinated with roadway, geotechnical, and hydrologic discipline leads and provided superstructure/substructure strength and service design and bridge layout. He was also responsible for plan development and quality control.

**Similarities to Bridge Package 18:** *Design Build, bridge replacement, utility relocations.*

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. Clark is currently assigned to the I-26 at I-95 Interchange Improvement Project in Orangeburg/Dorchester Counties, SC. His duties on this project will be complete in November of 2024. He will be assigned to serve full-time as Lead Design Engineer for this Project upon award. Clark will attend all routine project meetings in person, be primarily dedicated to design of the Project, and be available as needed by SCDOT.



## KEY INDIVIDUAL RESUME FORM

<b>Brief Resume of Key Individual anticipated for the Project.</b>																					
<p>a. Name &amp; Title: <b>David George Tepke, PE, Principal Engineer</b></p> <p>b. Role of Key Individual for this Project: <b>Cathodic Protection Specialist</b> A registered professional engineer with a minimum of five years of verifiable experience designing, installing, and testing galvanic CP systems to protect steel-reinforced concrete structures.</p>																					
<p>c. Name of Firm with which you are now associated: <b>SKA Consulting Engineers, Inc.</b></p>																					
<p>d. Years of Experience: With this Firm <u>17</u> Years      With Other Firms <u>0</u> Years</p> <p><b><u>Employment History:</u></b>  <b>SKA Consulting Engineers, Inc.:</b> Principal Engineer – Leads the structural repair team on structural and durability assessments of concrete structures, development of repair and service-life extension strategies, and troubleshooting concrete construction. Also conducts testing programs, develops coating and high-performance concrete specifications for severe and unique conditions and develops construction documents for the structural repair and preservation of structures. 2007 – Present.</p>																					
<p>e. Education: <b>Penn State University / University Park, PA / Bachelor/Master of Science / 2001 / Civil/Structural Engineering</b></p>																					
<p>f. Active Registrations:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">2010 / NC / Professional Engineer / 037508</td> <td style="width: 50%;">2014 / SC / Professional Engineer / 31337</td> </tr> <tr> <td>2014 / VA / Professional Engineer / 0402-053306</td> <td>2014 / GA / Professional Engineer / PE039025</td> </tr> <tr> <td>2014 / FL / Professional Engineer / 82477</td> <td>2014 / NY / Professional Engineer / 094293</td> </tr> <tr> <td>2019 / AL / Professional Engineer / 38600</td> <td>2019 / MD / Professional Engineer / 54523</td> </tr> <tr> <td>2020 / PA / Professional Engineer / PE090999</td> <td>2019 / TN / Professional Engineer / 122851</td> </tr> </table>		2010 / NC / Professional Engineer / 037508	2014 / SC / Professional Engineer / 31337	2014 / VA / Professional Engineer / 0402-053306	2014 / GA / Professional Engineer / PE039025	2014 / FL / Professional Engineer / 82477	2014 / NY / Professional Engineer / 094293	2019 / AL / Professional Engineer / 38600	2019 / MD / Professional Engineer / 54523	2020 / PA / Professional Engineer / PE090999	2019 / TN / Professional Engineer / 122851										
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2019 / AL / Professional Engineer / 38600	2019 / MD / Professional Engineer / 54523																				
2020 / PA / Professional Engineer / PE090999	2019 / TN / Professional Engineer / 122851																				
<p>g. Document the extent and depth of your experience and qualifications relevant to the Project.</p> <p><b>1. Arcadian II Condominiums Seawall Concrete Repairs and Hybrid (Galvanic) Cathodic Protection – Myrtle Beach, SC</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;"><b>Key Personnel Role:</b></td> <td>Engineer of Record for Concrete Repair &amp; Cathodic Protection</td> </tr> <tr> <td><b>Experience with Current Firm:</b></td> <td>Yes, SKA Consulting Engineers, Inc.</td> </tr> <tr> <td><b>Project/Assignment Duration:</b></td> <td>Project 2020-2022   Assigned 2020-2022</td> </tr> <tr> <td><b>Owner Contact Information:</b></td> <td>RealManage   Darla Benoit   Darla.benoit@realmanage.com   843-445-6007</td> </tr> <tr> <td><b>Design/Construction Value:</b></td> <td>\$370K</td> </tr> </table> <p><b>Project Description:</b> This project consisted of the repair, cathodic protection, and protective coatings for a 330-foot-long coastal reinforced concrete sea wall cap in Myrtle Beach, SC, with elevated chlorides from ocean exposure. The investigation included testing for contamination and corrosion characteristics of the concrete. The age of the seawall cap ranged from approximately 30-45 years old. The project included substantial concrete repairs and treatment of reinforcing steel and a hybrid cathodic protection system using embedded galvanic zin anodes. The initial impressed current was provided with a temporary external power supply followed by galvanic cathodic protection with the embedded zinc anodes. Monitoring stations were installed for initial testing to confirm protection and for testing at later dates. As the <b>Engineer of Record</b>, David was responsible for the investigation and characterization of concrete, design of the concrete repairs and cathodic protection, and construction oversight of the designated project manager.</p> <p><b>Similarities to Bridge Package 18:</b> <i>Cathodic protection design, cathodic protection supply installation.</i></p> <p><b>2. Shipyard Village Condominiums Buildings A and B Repairs and Galvanic Cathodic Protection – Pawleys Island, SC</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;"><b>Key Personnel Role:</b></td> <td>Cathodic Protection Specialist / Construction Support</td> </tr> <tr> <td><b>Experience with Current Firm:</b></td> <td>Yes, SKA Consulting Engineers, Inc.</td> </tr> <tr> <td><b>Project/Assignment Duration:</b></td> <td>Project Investigation Design &amp; Construction 2008-2012   Assigned 2017</td> </tr> <tr> <td><b>Owner Contact Information:</b></td> <td>Shipyard Village   Vicki Gallagher   vgallagher@pm-llc.com   843-839-1317</td> </tr> <tr> <td><b>Design/Construction Value:</b></td> <td>\$9 Million</td> </tr> </table> <p><b>Project Description:</b> This project consisted of structural concrete replacements, structural repairs, cathodic protection, and coatings to extend service life to the existing two 30-year-old coastal condominium structures with chloride contamination and corrosion-related distress. Structural concrete replacements were conducted with high-performance concrete. Galvanic cathodic protection included embedded zinc galvanic anodes adjacent to structural beam replacements and aluminum-zin-indium galvanic thermal spray to selection prestressed hollowcore panels and reinforced concrete haunches. The investigation included testing for contamination and corrosion characteristics of the concrete. Long-term test stations were specified for confirming corrosion protection. As the <b>Cathodic Protection Specialist</b>, David reviewed corrosion information prepared by others, conducted site testing, and provided recommendations to the Engineer of Record with respect to corrosion distress remediation. He also prepared structural concrete repair and replacement requirements and performance-based specifications for galvanic cathodic protection and test stations for review. David supported the construction team with reviewing the installation of the concrete jackets and cathodic protection for compliance with specifications.</p> <p><b>Similarities to Bridge Package 18:</b> <i>Cathodic protection design, cathodic protection supply installation.</i></p>		<b>Key Personnel Role:</b>	Engineer of Record for Concrete Repair & Cathodic Protection	<b>Experience with Current Firm:</b>	Yes, SKA Consulting Engineers, Inc.	<b>Project/Assignment Duration:</b>	Project 2020-2022   Assigned 2020-2022	<b>Owner Contact Information:</b>	RealManage   Darla Benoit   Darla.benoit@realmanage.com   843-445-6007	<b>Design/Construction Value:</b>	\$370K	<b>Key Personnel Role:</b>	Cathodic Protection Specialist / Construction Support	<b>Experience with Current Firm:</b>	Yes, SKA Consulting Engineers, Inc.	<b>Project/Assignment Duration:</b>	Project Investigation Design & Construction 2008-2012   Assigned 2017	<b>Owner Contact Information:</b>	Shipyard Village   Vicki Gallagher   vgallagher@pm-llc.com   843-839-1317	<b>Design/Construction Value:</b>	\$9 Million
<b>Key Personnel Role:</b>	Engineer of Record for Concrete Repair & Cathodic Protection																				
<b>Experience with Current Firm:</b>	Yes, SKA Consulting Engineers, Inc.																				
<b>Project/Assignment Duration:</b>	Project 2020-2022   Assigned 2020-2022																				
<b>Owner Contact Information:</b>	RealManage   Darla Benoit   Darla.benoit@realmanage.com   843-445-6007																				
<b>Design/Construction Value:</b>	\$370K																				
<b>Key Personnel Role:</b>	Cathodic Protection Specialist / Construction Support																				
<b>Experience with Current Firm:</b>	Yes, SKA Consulting Engineers, Inc.																				
<b>Project/Assignment Duration:</b>	Project Investigation Design & Construction 2008-2012   Assigned 2017																				
<b>Owner Contact Information:</b>	Shipyard Village   Vicki Gallagher   vgallagher@pm-llc.com   843-839-1317																				
<b>Design/Construction Value:</b>	\$9 Million																				

### 3. Litchfield Retreat Condominiums Structural Concrete Repairs Ph. 1 & 2 – Pawleys Island, SC

**Key Personnel Role:** EOR for Concrete Repair, Rail Replacement, & Localized Cathodic Protection  
**Experience with Current Firm:** Yes, SKA Consulting Engineers, Inc.  
**Project/Assignment Duration:** Project 2014-2017 | Assigned 2014-2017  
**Owner Contact Information:** Litchfield Retreat | W.R. (bob) Montgomery | bmontg52@gmail.com | 770-820-7392  
**Design/Construction Value:** \$3.4 Million

**Project Description:** This project consisted of structural concrete replacements and repair, guardrail replacements, cathodic protection, and protective coatings for a 45-year-old, 90-unit coastal reinforced concrete condominium building in Pawleys Island, SC, with elevated chlorides from ocean exposure. The investigation included testing for contamination and corrosion characteristics of the concrete. The project included structural concrete slab edge replacements, substantial concrete repairs and treatment of reinforcing steel, and a localized galvanic cathodic protection system with embedded galvanic zinc anodes to protect adjacent areas. David served as the **Engineer of Record** responsible for the investigation and characterization of concrete, design of the concrete repairs, cathodic protection, and construction oversight of the designated project manager.

**Similarities to Bridge Package 18:** *Cathodic protection design, cathodic protection supply installation.*

### 4. Mecklenburg County Pedestrian Bridge Structural Concrete Repairs & Cathodic Protection – Charlotte, NC

**Key Personnel Role:** Cathodic Protection Specialist  
**Experience with Current Firm:** Yes, SKA Consulting Engineers, Inc.  
**Project/Assignment Duration:** Project 2019-2022 | Assigned 2019-2022  
**Owner Contact Information:** Mecklenburg County | Jerry Russell | jerry.russell@mecklenburgcountync.gov | 704-351-4664  
**Design/Construction Value:** \$490K

**Project Description:** SKA was retained to perform a visual condition assessment of three pedestrian bridges located at the Mecklenburg Probation and Parole Building in Charlotte, North Carolina. SKA's assessment included a visual assessment of the exterior accessible structural concrete members, metal railings, and expansion joint seals. SKA provided a comprehensive report that included recommendations and opinions regarding service life and cost estimates for repairs. Additionally, SKA provided schematic and design development recommendations regarding the pedestrian bridges. Lastly, SKA provided construction administration services to address the existing distress, deficiencies, and components that appeared to have exceeded their useful service life. As the **Cathodic Protection Specialist**, David's responsibilities associated with corrosion included assistance with evaluating corrosion characteristics of concrete, selecting thermal spray galvanic cathodic protection for protecting reinforced steel, developing performance-based specifications, selecting cathodic protection testing parameters, and reviewing installation drawings and test results provided by the cathodic protection system installer.

**Similarities to Bridge Package 18:** *Cathodic protection design, cathodic protection supply installation.*

### 5. WellSpan York Hospital Employee Parking Garage Concrete Pair Repair & Jacketed Galvanic Cathodic Protection – York, Pennsylvania

**Key Personnel Role:** Cathodic Protection Consultant  
**Experience with Current Firm:** Yes, SKA Consulting Engineers, Inc.  
**Project/Assignment Duration:** Project 2009 | Assigned 2009  
**Owner Contact Information:** WellSpan York Hospital | George Baker | gbaker@wellspan.org | 717-851-2141  
**Design/Construction Value:** \$300K

**Project Description:** This project consisted of structural concrete repairs and cathodic protection to extend service life to the existing 30-year-old piers supporting a parking garage level in York, Pennsylvania. Piers were subjected to chloride contamination from the accumulation of deicing salts. Reinforced concrete repairs and jackets with low resistivity, low shrinkage concrete, epoxy-coated steel, and discrete zinc galvanic anodes were installed to repair and protect the piers. The investigation included testing for contamination, damage, and corrosion characteristics of the concrete. Long-term test stations were specified for confirming corrosion protection. As the **Cathodic Protection Consultant and Support for the Engineer of Record**, David conducted site testing and provided recommendations to the EOR with respect to corrosion distress and remediation. Additionally, he was the primary designer for preparing repair, jacket characteristics, galvanic cathodic protection requirements, and test station requirements for review and incorporation by the EOR.

**Similarities to Bridge Package 18:** *Cathodic protection design, cathodic protection supply installation.*

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. David currently serves as a technical consultant and director for structural repair and service-life extension projects. Current time commitments that may impact availability will end prior to the anticipated start date of this project communicated by SCDOT. David will be available to meet all time commitments required of the cathodic protection professional, including supervision of the designated on-site technician(s) assigned to be on-site during all cathodic protection installation, and will be available at the request of the SCDOT for the duration of construction.



## 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, LLC**



- d. Years of Experience: With this Firm 23 Years With Other Firms 0 Years

#### **Employment History:**

**Dane:** 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 – Present.

**Dane:** Foreman – 2009-2011

**Dane:** Leadman – 2006-2009

**Dane:** Carpenter – 2003-2006

**Dane:** Bridge Laborer – 2000-2003

- e. Education:

N/A

- f. Active Registrations:

N/A

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

### **1. SCDOT Highway 176 over Dean Swamp and Dean Swamp Overflow – Berkeley & Orangeburg Counties, SC**

**Key Personnel Role:** Construction Manager

**Experience with Current Firm:** Yes, Dane Construction, LLC

**Project/Assignment Duration:** Project 2020-2022 | Assigned 2020-2022

**Owner Contact Information:** SCDOT | Keith Green | greenfk@scdot.org | 843-746-7903

**Design/Construction Value:** \$8.4 Million

**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' seven-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. As the **Construction Manager**, Adrian's specific responsibilities included managing construction, construction sequencing of multiple crews, coordination and scheduling of materials and subcontractors, and working on-site with the Project Manager to ensure the project was built on schedule, on budget, and safely.

**Similarities to Bridge Package 18:** Bridge replacement, utility coordination/relocation, flat slab superstructure, bridge over water.

### **2. SCDOT US Hwy 1 Bridge over South Edisto River – Aiken, SC**

**Key Personnel Role:** Construction Manager

**Experience with Current Firm:** Yes, Dane Construction, LLC

**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) to successfully complete this project for SCDOT.

**Similarities to Bridge Package 18:** Utility coordination/relocation, bridge demolition, bridge over water.

### **3. NCDOT Monroe Bypass, Structures B1800, B1900, B2400, B2500, and C202587 – Mecklenburg & Union Counties, NC**

**Key Personnel Role:** Construction Manager

**Experience with Current Firm:** Yes, Dane Construction, LLC

**Project/Assignment Duration:** Project 2015-2018 | Assigned 2016-2017

**Owner Contact Information:** Summit | Rob Cousins, PE | rob.cousins@summitde.com | 540-320-6428

**Design/Construction Value:** \$367.7 Million

**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.

**Similarities to Bridge Package 18:** Design-Build, Bridge over Water, Precast Concrete Beams, Utility Relocations.

#### 4. NCDOT Division 10 Bridge Package C202980 (Nine Bridges & One Culvert) – Anson, Union, Mecklenburg, & Cabarrus Counties, NC (show as number 2)

**Key Personnel Role:** Construction Manager  
**Experience with Current Firm:** Yes, Dane Construction, LLC  
**Project/Assignment Duration:** Project 2012-2016 | Assigned 2013-2016  
**Owner Contact Information:** NCDOT | Nat Hunter | ehunter@ncdot.gov | 980-262-6202  
**Design/Construction Value:** \$11

**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. As the **Construction Manager**, Adrian managed the construction of five 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) on this project.

**Similarities to Bridge Package 18:** Bridge replacement, bridge over water, precast concrete beams, bridge demolition, utility relocations.

#### 5. NCDOT On I-40 and over NC-18 C202622 – Burke County, NC

**Key Personnel Role:** Construction Manager  
**Experience with Current Firm:** Yes, Dane Construction, LLC  
**Project/Assignment Duration:** Project 2011-2013 | Assigned 2011-2013  
**Owner Contact Information:** NCDOT | Chris Guffey, PE | caguffey@ncdot.gov | 828-447-2541  
**Design/Construction Value:** \$22 Million

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

**Similarities to Bridge Package 18:** Bridge replacement, bridge demolition, precast concrete beams.

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 just completed a Design-Build project to complete a three-span structural steel bridge as a sub. He is available for all on-site construction requirements, attend weekly status meetings, and will be available at the request of the SCDOT for the duration of construction.



# APPENDIX B

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## Work History & Quality Forms (3.5.1)

### Contractor:

- SCDOT US 176 over Deans Swamp
- US 76 over Banks Channel

### Designer:



- SCDOT Emergency Bridge Package 2018-1
- Shipyard Village Buildings A & B Repairs







WORK HISTORY AND QUALITY FORM – CONTRACTOR

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: <b>US 176 over Deans Swamp</b> Delivery Method: <b>Design-Bid-Build</b> Location: <b>Berkeley &amp; Orangeburg Counties, SC</b>	Name: <b>SCDOT (Design)</b>	Name of Owner: <b>SCDOT</b> Project Manager: <b>Keith Green, PE</b> Phone: <b>843.746.7903</b> Email: <a href="mailto:greenfk@scdot.org">greenfk@scdot.org</a>	Design: <b>07/2019</b> Construction: <b>05/2022</b>	<b>\$9,185</b>	<b>\$4,500</b>
g. Narrative describing the work performed by Dane.					
<p><b>Project Description:</b> This was a phased construction project with over 0.6 miles of roadway and two bridges near Holly Hill, SC. Bridges consisted of concrete pile interior bents with pile excavation, steep pile end bents, and flat slab superstructure. Bridge 1 was a 160’ 4-span flat slab bridge on concrete pile bents with staged construction. Bridge 2 was a 240’ seven-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.</p> <p><b>Design Location:</b> Columbia, SC</p> <p><b>Key Individuals:</b> Adrian Noriega, Construction Manager (Dane) 2020-2022   Adam Holcomb, PE, Vice President (Dane) 2020-2022</p> <p><b>Additional Critical Individuals:</b> Nathan Hedrick, Assistant Project Manager (Dane) 2020-2022   Matthias Watson, Engineer Technician (Dane) 2021-2022</p>			 		
<p><b>RELEVANCE:</b></p> <ul style="list-style-type: none"><li>✓ Bridge Replacement</li><li>✓ Traffic/MOT</li><li>✓ Utility Coordination</li><li>✓ Erosion &amp; Sedimentation Control</li><li>✓ Staged Slab Span</li><li>✓ Phased Bridge Construction</li><li>✓ Match relevance to whats in the resume</li></ul>					
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/Major Sub-consultants 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 worked 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.					
“Yes” answers do not apply to this project.					





WORK HISTORY AND QUALITY FORM – CONTRACTOR

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 Coastal Gunite’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 Coastal Gunite (in thousands)
Name: <b>US 76 over Banks Channel Structure #640021</b> Delivery Method: <b>Design-Bid-Build</b> Location: <b>Wrightsville Beach, NC</b>	Name: <b>WSP &amp; Siva</b>	Name of Owner: <b>NCDOT</b> Project Manager: <b>Wanda James</b> Phone: <b>910.431.9279</b> Email: <b>ext-wmjames@ncdot.gov</b>	Design: <b>07/2021</b> Construction: <b>06/2024</b>	<b>\$3,920</b>	<b>\$3,200</b>

g. Narrative describing the work performed by Coastal Gunite.

**Project Description:** This project is a multi-level cathodic project featuring three categories of systems:

1.

Application of Thermal Spray Anode (TSA) coating to select girders as specified in the contract plans. This application shall be performed by thermal spraying (metalizing) the concrete with the required surface preparation necessary to produce a good bond between the TSA coating and the concrete. A good bond is essential to provide an efficient galvanic cathodic protection (CP) system. Furnish labor, materials, testing and installation equipment, and apply TSA coating on all surfaces within the CP zones defined in the Contract Documents or as directed by the Engineer.

2.

Supplying, installing, testing, and energizing Cathodic Protection (CP) system for selected piles. The CP system requires continuity between all embedded steel components on designated prestressed piles, wire connection to the steel reinforcement, installation of integral zinc mesh anode factory installed in fiberglass CP jackets, and installation of bulk zinc anodes at an elevation below the CP jacket in accordance with the Contract Documents.

3.

Pile Cap Hybrid (Powered) Galvanic Anodes

i.



Hybrid galvanic anodes are designed to mitigate corrosion in chloride-contaminated or carbonated concrete. When placed in drilled holes at the appropriate spacing and activated, the anodes will mitigate future corrosion of rebars and extend the service life of the concrete structure.

ii.

The powered hybrid anode mentioned in this specification refers to hybrid anodes that can be powered initially and at intervals thereafter, as necessary, to achieve polarization of embedded steel to mitigate future corrosion related damage.

iii.

The hybrid anode shall be capable of maintaining corrosion protection after the initial activation/energization and shall continue to maintain corrosion protection. If at any point full protection of embedded reinforcing is not achieved, the contractor shall reenergize the system to achieve full protection.



**RELEVANCE:**

✓ Bridge Rehab

✓ Cathodic Protection Installation

✓ Concrete Rehabilitation




✓ Bridge over Water

✓ Traffic/MOT

✓ Utility Coordination



✓ Coastal/Marine Environment
- Design Location:** Raleigh, NC
- Key Individuals:** N/A
- h. Self-Assessment. The information provided in this section should be a self-assessment of Coastal Gunite’s performance on the project to identify Coastal Gunite with firms or personnel that have successfully completed projects on time and on or under budget, and to identify Lead Designers/Major Sub-consultants that have records of managing contracts to minimize delays, claims, dispute proceedings, litigation, and arbitration.
- Coordination between the design team, the CP specialist and the contractors is imperative for success. In this case, previous poor and some un-documented repairs proved to be extremely challenging for the team, but with the efforts by all parties to produce solutions to the problems the project moved forward to completion. The systems are functioning as designed with some of them (Pile Cap Hybrid) being a relatively new technology to this region. With a lesser team, this project would have been extremely likely to fail.
- i. Quality Initiatives. Discuss Coastal Gunite’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.
- CP in general are leading edge when it comes to rehabilitation. Because of the extended lifespan of the structure, they are also one of the most effective ways to get the most out of aging infrastructure. It requires that not only are the specifications followed but an understanding of how they work as a whole. Understanding how to make the systems work with many variables, some of which might arise unexpectedly, is the reality of working on these projects. The coordination and communication of design and implementation in this case made the project a success.
- j. For each question in Section 3.5.2 of the RFQ for which a “Yes” answer was provided, Coastal Gunite shall provide a detailed explanation below.
- “Yes” answers do not apply to this project.

WORK HISTORY AND QUALITY FORM – 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 ICE, LLC’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 ICE, LLC (in thousands)
Name: <b>Emergency Bridge Package 2018-1</b> Delivery Method: <b>Design-Build</b> Location: <b>Orangeburg and Dillon Counties, SC</b>	Name: <b>United Infrastructure Group, Inc.</b>	Name of Owner: <b>SCDOT</b> Project Manager: <b>Jae Mattox, PE</b> Phone: <b>803.737.1805</b> Email: <a href="mailto:mattoxjh@scdot.org">mattoxjh@scdot.org</a>	Design: <b>01/2019</b> Construction: <b>11/2019</b>	<b>\$8,745</b>	<b>\$1,100 (Design)</b> <b>+ \$145 (QC Inspection)</b>
g. Narrative describing the work performed by ICE, LLC. Include the office location(s) where the design work was performed and whether ICE, LLC was the lead designer or a sub-consultant.					
<p><b>Project Description:</b> ICE served as the <b>Primary Design Consultant</b> responsible for successfully delivering all engineering services required for this Design-Build (DB) project which involved the replacement of three bridges including S-50 (Four Holes Road) over Interstate 26 in Orangeburg County and S-45 (Lester Road) over Little Pee Dee River and Swamp in Dillon County. The original 266’ S-50 Bridge (which was severely damaged by vehicular impact and subsequently demolished in March 2018) was replaced with a two-span, 45” deep Florida I-Beam bridge with a cast-in-place concrete interior bent supported by pile footings and MSE walls in front of pile-supported integral end bents. The design also allowed for two lanes of future widening in each direction of I-26 to the inside providing a 72’ clear opening for both directions of traffic. The bridge replacements on S-45 consisted of prestressed hollow-cored slab superstructures with prestressed pile-supported interior bents at both sites. All three bridges required formal seismic analysis and design in accordance with the SCDOT Seismic Design Specifications, and the S-50 site required a pushover analysis.</p> <p><b>S-50 (Four Holes Rd.) over I-26, Orangeburg County</b>   The original bridge consisted of 5 spans for a total length of 266’ and the new bridge consists of two 90’ spans, Type III prestressed girders, and MSE walls placed in front of steel pile-supported end bents that provided the most rapidly constructible and economical solution. The proposed structure was constructed on the existing alignment and required a minor vertical profile adjustment to satisfy the required minimum of 17’-0” above I-26. The interior bent consists of two columns with steel pile-supported footings. Locating the proposed interior bent in the center of the median allowed conflicts to be avoided with any foundation elements of the original bridge. Our Team proposed a jointless bridge with integral end bents to minimize future maintenance concerns. The proposed bridge geometry allowed for the future widening of I-26 to the inside (up to two additional lanes in each direction), providing a 72’ clear opening for both eastbound and westbound traffic.</p> <p><b>S-45 (Lester Rd.) over Little Pee Dee Swamp &amp; Little Pee Dee River, Dillon County</b>   The S-45 project involved a multiple crossing of two bridges, one main bridge over the Little Pee Dee River and one swamp relief bridge. The main river bridge and the swamp bridge were substantially damaged by scour from flooding associated with Hurricane Matthew in October 2016, making replacement necessary for the bridges. The road was closed to traffic until the bridges were replaced. A one-dimensional multiple-opening HEC-RAS model was developed for the crossing, setting optimal span arrangements and elevations for the two replacement bridges. Scour studies were conducted for the two proposed new bridges, using a combination of HEC-18 and USGS Scour Envelope Curve methods. Because the bridge crossings are in a swampy environment with poorly defined stream channels, much judgment had to be exercised in developing predicted scour depths and profiles.</p> <p><b>Design Location:</b> ICE Corporate Office: formerly 1021 Briargate Circle, Columbia, SC 29210</p> <p><b>Key Individual:</b> Clark Baer, PE, Structural Engineer (ICE) 2018   <b>Additional Critical Individuals:</b> Andy Gillis, PE, DB Coordinator (ICE) 2018-2019   Barrett Stone, Environmental Manager (ICE) 2018-2019   Michael Valiquette, PE, Geotechnical Engineer (ICE) 2018-2019</p>			 <p>Lester Road over Little Pee Dee Swamp</p>  <p>Lester Road over Little Pee Dee River</p>  <p>Four Holes Road over I-26</p>	<div>RELEVANCE:<ul style="list-style-type: none"><li>✓ Design Build</li><li>✓ Bridge Replacement</li><li>✓ Bridge over Water</li><li>✓ Utility Relocations</li><li>✓ Bridge Demolition</li><li>✓ Precast Concrete Beams</li></ul></div>	
h. Self-Assessment. The information provided in this section should be a self-assessment of ICE, LLC’s performance on the project to identify Lead Designers/Major Sub-consultants with firms or personnel that have successfully completed projects on time and on or under budget, and to identify Lead Designers/Major Sub-consultants that have records of managing contracts to minimize delays, claims, dispute proceedings, litigation, and arbitration.					
Our Team used the Concept Plans provided by SCDOT as a starting point and made adjustments to optimize the design and reduce environmental impacts wherever possible. Since the existing roadways were closed to traffic and a detour was installed, construction proceeded on alignment without the need for traffic control.					
i. Quality Initiatives. Discuss ICE, LLC’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 ICE/UIG Team was awarded the project in July 2018 with a low-bid cost of \$8,745,000. Given the urgency to re-open the roads to traffic, SCDOT required all three bridges to be constructed within 323 calendar days from the Notice to Proceed which was issued on September 3, 2018. The design was completed on an accelerated schedule with released for construction plans being issued for the S-50 site 95 days after the notice to proceed. The plans for the S-45 bridges were released for construction 123 days after the notice to proceed. All submittals were made on time and the SCDOT was pleased with the efficiency of the plan submittal and review process. ICE completed their scope of work on budget and met UIG’s schedule for delivery of all construction documents.					
j. For each question in Section 3.5.2 of the RFQ for which a “Yes” answer was provided, ICE, PLLC shall provide a detailed explanation below.					
“Yes” answers do not apply to this project.					



WORK HISTORY AND QUALITY FORM – 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 SKA’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 SKA (in thousands)
Name: <b>Arcadian II Condominiums Seawall Concrete Repairs and Hybrid (Galvanic) Protection</b> Delivery Method: <b>Design-Bid-Build</b> Location: <b>Myrtle Beach, SC</b>	Name: <b>Stone Restoration of America</b>	Name of Owner: <b>RealManage</b> Project Manager: <b>Darla Benoit</b> Phone: <b>843.445.6007</b> Email: <b>darla.benoit@realmanage.com</b>	Design: <b>2020</b> Construction: <b>2022</b>	<b>\$370</b>	<b>\$60</b>
g. Narrative describing the work performed by SKA. Include the office location(s) where the design work was performed and whether SKA was the lead designer or a sub-consultant.					
<p><b>Project Description:</b> SKA served as the <b>Primary Design Consultant</b> for this project, which consisted of the repair, cathodic protection, and protective coatings for a 330-foot-long coastal reinforced concrete sea wall cap in Myrtle Beach, SC, with elevated chlorides from ocean exposure. The investigation included testing for contamination and corrosion characteristics of the concrete. The age of the seawall cap ranged from approximately 30-45 years old. The project included substantial concrete repairs and treatment of reinforcing steel and a hybrid cathodic protection system using embedded galvanic zin anodes. Initial impressed current was provided with a temporary external power supply followed by galvanic cathodic protection with the embedded zinc anodes. Monitoring stations were installed for initial testing to confirm protection and for testing at later dates.</p> <p>SKA served as the engineer of record in responsible charge of the investigation, the design of the concrete repairs and cathodic protection, and construction oversight. The design included specification of the anode system, performance requirements, and testing and monitoring station requirements. Construction responsibilities included review of shop drawings and material submittals, coordination with designated company project manager, participation in testing by the manufacturer’s rep, technical review of test data from the manufacturer, and evaluation of compliance</p> <p><b>Design Location:</b> SKA Consulting Engineers, 7900 Triad Center Drive, Suite 200, Greensboro, NC 27409</p> <p><b>Key Individual:</b> David Tepke, PE, Engineer of Record for Concrete Repairs &amp; Cathodic Protection (SKA) 2020-2022</p>					
<div></div> <div><p><b>RELEVANCE:</b></p><ul style="list-style-type: none"><li>✓ Cathodic Protection Design</li><li>✓ Rehab</li><li>✓ Coastal/Marine Environment</li><li>✓ Horry County</li></ul></div>					
h. Self-Assessment. The information provided in this section should be a self-assessment of SKA’s performance on the project to identify Lead Designers/Major Sub-consultants with firms or personnel that have successfully completed projects on time and on or under budget, and to identify Lead Designers/Major Sub-consultants that have records of managing contracts to minimize delays, claims, dispute proceedings, litigation, and arbitration.					
SKA utilizes the same team throughout the project to minimize delays and impacts to the budget. Our engineering team is engaged from the initial condition assessment and completion of the repair documents that are utilized for bidding. Once construction begins, the PM remains engaged with the project and conducts site visits and inspections.					
i. Quality Initiatives. Discuss SKA’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.					
SKA worked with the manufacturers to obtain installation drawings for their specific system and this specific project. Then met with manufacturer and their designers during construction to ensure alignment of their QC and our QA to meet overall design intent.					
j. For each question in Section 3.5.2 of the RFQ for which a “Yes” answer was provided, SKA shall provide a detailed explanation below.					
“Yes” answers do not apply to this project.					



# APPENDIX C

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## Work History & Quality Forms (3.5.2)





## APPENDIX C

### QUALITY OF PAST PERFORMANCE

Dane/ICE for each transportation project, other than those previously provided in Section 3.5.1, active or completed within the last five years, are not applicable to “yes” responses to any of the following questions.

Quality Questions	Dane	ICE
Has the Lead Contractor been declared delinquent or placed in default on any Project?	No	N/A
Has the Lead Contractor submitted a claim on a project that was litigated? If litigated, explain the results.	No	N/A
Have any projects involving the Lead Contractor or Lead Designer been delayed more than 30 days such that liquidated damages were assessed?	No	No
Has the Lead Contractor been cited by OSHA for violations deemed serious, willful, or repeated?	No	N/A
Have any projects under contract with the Lead Contractor 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	No
Has an owner, a Lead Contractor pursued compensation from the Lead Designer due to errors and omissions?	No	No
Has the Lead Designer filed legal proceedings against the Lead Contractor, or vice versa, on a design-build contract?	No	No

# APPENDIX D

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## Legal and Financial

- Financial Capacity Statement
- Bonding Capacity





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



May 28, 2024

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

RE: Bridge Package 18 Design Build Project  
Contract ID: 2662300  
Horry County

Subject: Financial Capacity Letter

To Whom It May Concern,

According to Section 3.6.1 Financial Capacity of Request for Qualifications (RFQ) for the Design Build Project ID 2662300 by SCDOT issued May 22, 2024:

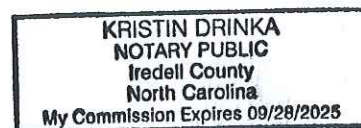
I, Michael E Dane, in my capacity as CEO and Controlling Owner of Dane Construction, LLC. certify that Dane Construction, LLC. has the financial capacity and resources necessary to complete the project as proposed in the RFQ.

Respectfully,

Michael E. Dane  
CEO  
Dane Construction, LLC.

State of NC County of Iredell  
The foregoing instrument was acknowledged before me  
this 28 day of May, 2024.

By: Kristin Drinka  
Notary Public  
My Commission Expires: 09/28/2025





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

May 28, 2024

Subject: Dane Construction, LLC, Mooresville, NC  
Project: Bridge Package 18, Design-Build Contract ID 2662300, Horry County

To Whom It May Concern:

We are pleased to confirm our surety bond relationship with Dane Construction, LLC. Dane Construction, LLC has been a client of ours for many years, in which we have approved bonds in excess of \$40,000,000. 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, LLC'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, LLC, 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

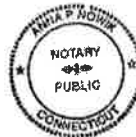
City of Hartford ss.

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

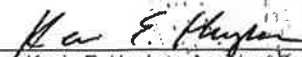
**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice 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 **28th** day of **May**, **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.**

# APPENDIX E

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## Organizational Conflicts of Interest

- Infrastructure Consulting & Engineering, LLC Signed Certification





# DISCLOSURE OF POTENTIAL CONFLICT OF INTEREST CERTIFICATION

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

  X   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): N/A

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

  
\_\_\_\_\_  
Signature

June 7, 2024  
Date

Adam L. Holcomb, PE / President  
Print Name

Dane Construction, LLC  
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

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## Confidential of Proprietary Information Summary List





## **Appendix F**

### **Confidential and Proprietary Information Page List**

The following sections of this Statement of Qualifications are considered confidential and should not be disclosed under the South Carolina Freedom of Information Act:

Appendix E: Organizational Conflicts of Interest..... Pages 33-35

# APPENDIX G

## Addendum Receipt Forms





## NOTICE TO PROPOSERS

**Bridge Package 18**  
**Design-Build – Contract ID 2662300**  
**Horry County**

May 31, 2024

NOTICE TO PROPOSERS - Enclosed is **Addendum 1** to the Request for Qualifications (RFQ) for the Bridge Package 18 design-build project. The information provided in this notice and the addendum shall be made part of the contract documents.

The **yellow** highlights identify the revisions associated with Addendum 1.

This addendum is being issued in order to provide clarification and additional information for the project. The following sections of the RFP contain revisions:

- Section 2.2.2
- Section 3
- Section 3.4.5
- Section 6.6



**NOTICE OF RECEIPT**  
**Bridge Package 18**  
**Design-Build – Contract ID 2662300**  
**Horry County**

**Addendum 1**

The information in this addendum shall be made part of the contract documents. PROPOSERS are instructed to incorporate the information into the previously provided RFQ documents.

PROPOSERS are required to sign this document and enclose it with their Statement of Qualifications. Receipt of this signed document by The South Carolina Department of Transportation serves as confirmation that the PROPOSER has received and incorporated this Addendum into the contract documents.

**Confirmation Statement:**

I, the PROPOSER confirm that I have received this addendum package and have incorporated the information provided in the addendum into the contract documents.



PROPOSER's Signature

June 7, 2024

Date

Adam Holcomb, PE

Printed Name

For: Dane-ICE Team

Design-Build Team Name





# APPENDIX H

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## Key Individual and Contractor / Designer Reference Forms

- Key Individual References
- Contractor / Designer References



### Key Individual References

Email	First Name	Last Name	Key Individual Name	Project Name	Role of Key Individual	Team
<a href="mailto:wwjones@ncdot.org">wwjones@ncdot.org</a>	Wiley	Jones	Adam Lee Holcomb	Bridge Package C204611	President	Dane / KCI
<a href="mailto:greenfk@scdot.org">greenfk@scdot.org</a>	Keith	Green	Adam Lee Holcomb	US 176 over Deans Swamp	Vice President	Dane
<a href="mailto:rhancock@hntb.com">rhancock@hntb.com</a>	Ron	Hancock	Adam Lee Holcomb	Bridge Package C203573	Project Manager	Dane / KCI
<a href="mailto:rhancock@hntb.com">rhancock@hntb.com</a>	Ron	Hancock	Adam Lee Holcomb	Bridge Package C202980	Project Manager	Dane
<a href="mailto:bsmith@dmp.com">bsmith@dmp.com</a>	Brian	Smith	Adam Lee Holcomb	Bridge Package C2001302	Assistant PM / PM	Dane / DMP
<a href="mailto:mattoxjh@scdot.org">mattoxjh@scdot.org</a>	Jae	Mattox	Clark Shaeffer Baer	Emergency Bridge Package 2018-1	Structural Engineer	ICE / UIG
<a href="mailto:estehmeyer@scpa.com">estehmeyer@scpa.com</a>	Ed	Stehmeyer	Clark Shaeffer Baer	Timothy Creek Crossing	Structures Manager / EOR	ICE
<a href="mailto:parrisSL@scdot.org">parrisSL@scdot.org</a>	Shane	Parris	Clark Shaeffer Baer	Bridge Replacement Package E	Structural Designer	ICE / UIG
<a href="mailto:redfearnWT@scdot.org">redfearnWT@scdot.org</a>	Tyke	Redfearn	Clark Shaeffer Baer	Emergency Bridge Replacement Package 4	Structural Designer	ICE
<a href="mailto:ahoenig@dot.ga.gov">ahoenig@dot.ga.gov</a>	Andrew	Hoenig	Clark Shaeffer Baer	FY 17 Bridge Replacement Projects (Batch 2)	Structural Engineer	ICE / UIG
<a href="mailto:darla.benoit@realmanage.com">darla.benoit@realmanage.com</a>	Darla	Benoit	David George Tepke	Arcadian II Condos Seawall Concrete Repairs and Hybrid Cathodic Protection	Engineer of Record	SKA
<a href="mailto:vgallagher@pm-llc.com">vgallagher@pm-llc.com</a>	Vicki	Gallagher	David George Tepke	Shipyard Village Condos Buildings A & B Repairs	Cathodic Protection Specialist	SKA
<a href="mailto:bmontg52@gmail.com">bmontg52@gmail.com</a>	W.R. (Bob)	Montgomery	David George Tepke	Litchfield Retreat Condos Structural Concrete Repairs Phase 1 & 2	Engineer of Record	SKA
<a href="mailto:jerry.russell@mecklenburgcountync.gov">jerry.russell@mecklenburgcountync.gov</a>	Jerry	Russell	David George Tepke	Pedestrian Bridge Structural Concrete Repairs & Cathodic Protection	Cathodic Protection Specialist	SKA
<a href="mailto:gbaker@wellspan.org">gbaker@wellspan.org</a>	George	Baker	David George Tepke	WellSpan York Hospital Employee Parking Garage	Cathodic Protection Consultant	SKA
<a href="mailto:greenfk@scdot.org">greenfk@scdot.org</a>	Keith	Green	Adrian Iturbide Noriega	US 176 over Deans Swamp	Construction Manager	Dane
<a href="mailto:taylorjl@scdot.org">taylorjl@scdot.org</a>	Jeffery	Taylor	Adrian Iturbide Noriega	US Hwy 1 Bridge over South Edisto River	Construction Manager	Dane
<a href="mailto:rob.cousins@summitde.com">rob.cousins@summitde.com</a>	Rob	Cousins	Adrian Iturbide Noriega	Monroe Bypass Structures B1800, B1900, B2400, B2500, and C202587	Construction Manager	Dane
<a href="mailto:ehunter@ncdot.gov">ehunter@ncdot.gov</a>	Nat	Hunter	Adrian Iturbide Noriega	Bridge Package C202980	Construction Manager	Dane
<a href="mailto:caguffey@ncdot.gov">caguffey@ncdot.gov</a>	Chris	Guffey	Adrian Iturbide Noriega	On I-40 and over NC-18 C202622	Construction Manager	Dane





References from Previous Working Relationships Table

Email	First Name	Last Name	Company Name	Project Name	Team
<a href="mailto:greenfk@scdot.org">greenfk@scdot.org</a>	Keith	Green	SCDOT	US 176 over Deans Swamp	Dane
<a href="mailto:cdjustice@ncdot.gov">cdjustice@ncdot.gov</a>	Colby	Justice	NCDOT	NCDOT Division 13 Bridge Package C203573	Dane/KCI
<a href="mailto:ReynoldsBS@scdot.org">ReynoldsBS@scdot.org</a>	Brad	Reynolds	SCDOT	US 15 over Indian Field Swamp Bridge Replacement	ICE/UIG
<a href="mailto:mattoxjh@scdot.org">mattoxjh@scdot.org</a>	Jae	Mattox	SCDOT	Emergency Bridge Package 2018-1	ICE/UIG
<a href="mailto:taylorJL@scdot.org">taylorJL@scdot.org</a>	Jeffrey	Taylor	SCDOT	S-22 Bridge over Enoree River	Dane
<a href="mailto:rhancock@hntb.com">rhancock@hntb.com</a>	Ron	Hancock	HNTB	NCDOT Division 10 Bridge Package C202980	Dane
<a href="mailto:estehmeyer@scpa.com">estehmeyer@scpa.com</a>	Ed	Stehmeyer	South Carolina Ports Authority	Ridgeville Industrial Campus Access Road Phase 2	ICE

References from Work History Forms

Email	First Name	Last Name	Company Name	Project Name	Team
<a href="mailto:greenfk@scdot.org">greenfk@scdot.org</a>	Keith	Green	SCDOT	US 176 over Deans Swamp	Dane
<a href="mailto:ext-wmjames@ncdot.gov">ext-wmjames@ncdot.gov</a>	Wanda	James	NCDOT	US 76 over Banks Channel Structure 640021	CGC
<a href="mailto:mattoxjh@scdot.org">mattoxjh@scdot.org</a>	Jae	Mattox	SCDOT	Emergency Bridge Package 2018-1	ICE/UIG
<a href="mailto:darla.benoit@realmanage.com">darla.benoit@realmanage.com</a>	Darla	Benoit	RealManage	Arcadian II Condominiums Seawall Concrete Repairs	SKA

