

Welcome to the

JEA Awards Meeting

August 21, 2025, 10:00 AM EST

You have been joined to the meeting with your **audio muted** by default.

At the designated public comment time we will provide opportunity for you to unmute to speak.

During the meeting, public comments received via e-mail regarding any matter on the agenda for consideration will be read out. Per the Public Notice Agenda posted on JEA.com, public comments by e-mail must be received no later than 9:00 a.m. on the day of the meeting to be read during the public comment portion of the meeting.

Please contact **Aileen Cruz** by telephone at **(904) 776-1911** or by email at **cruza@jea.com** if you experience any technical difficulties during the meeting.

JEA Awards Agenda
August 21, 2025
225 North Pearl St., Jacksonville, FL 32202 - Hydrangea Room 1st Floor

[Teams Meeting Info](#)

Consent Agenda

The Chief Procurement Officer offers the following items for the JEA Awards Consent Agenda. Any item may be moved from the Consent Agenda to the Regular Agenda by a committee member asking that the item be considered separately. All items on the Consent agenda have been approved by OGC, Budget and the Business Unit Vice President and Chief. The posting of this agenda serves as an official notice of JEA's intended decision for all recommended actions for **Formal Purchases** as defined by **Section 3-101 of the JEA Procurement Code**. Please refer to JEA's Procurement Code, if you wish to protest any of these items.

Award #	Type of Award	Solicitation # & Short Description/Title	VP	Awardee	Funding Source	Business Unit Estimate	Award Amount	Original Award Amount	New Not-to-Exceed	Amendments	Term (Projected) Start Date - End Date	JSEB Participation (Y/N) If Y, then list company name(s) (% , S - awarded)
1	Minutes	Minutes from 08/14/2024 Meeting	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Change Order	CGI Field Management System (FMS-CAD) Software Support	Selders	CGI Technologies and Solutions Inc.	O&M	\$1,500,000.00	\$95,273.89	\$1,196,593.00	\$1,291,866.89	N/A	Three (3) Years Start Date: 12/1/2024 End Date: 11/30/2027	N
<p>For additional Information Contact: Angel Love</p> <p>This change order request is for \$57,700.89 in ongoing travel expenses by the CGI project teams as part of the overall implementation of the new OpenGrid solution for JEA's Field Management System, and \$37,573.00 for two key change order/enhancements within the OpenGrid Field product for JEA: Satellite View functionality and updates to the Move Job feature. The satellite imagery will be activated as an additional map view option alongside Day and Night modes. Although the feature is already built-in, it requires configuration to activate, and the imagery is sourced from the map server without customization options. The Move Job feature will be updated to reflect the newly selected map location in job details. A toggle will be added to turn this functionality on or off. Together, these enhancements improve mapping clarity and job management across JEA's field operations. This project is estimated to be completed by the end of January 2026.</p>												
3	Contract Increase	1411475047 Water and Wastewater Items for Inventory Stock	Phillips	Ferguson Enterprises, LLC (dba Ferguson Waterworks) Core & Main LP	Inventory	\$14,871,545.16	Ferguson \$1,339,144.94 Core & Main	Ferguson \$8,772,946.13 Core & Main	Ferguson \$10,112,091.07 Core & Main	Ferguson 11/14/2024 - \$0.00 - Renewal Core & Main 11/14/2024 - \$0.00 - Renewal 07/03/2025 - \$154,088.24 Fortiline 11/15/2024 - \$0.00 - Renewal	One (1) Year w/ One (1) - 1 Yr. Renewal Start Date: 12/14/2023 End Date: 12/13/2025 No Renewals Remaining	N
<p>Last awarded: 12/14/2023 For additional information contact: Dan Kruck</p> <p>This request is to increase funding for the three water/wastewater inventory contracts to cover needs through the end of the current contract term while the contracts are rebid.</p> <p>These contracts supply water/wastewater items for JEA's inventory stock. Ferguson was awarded 867 items, Core & Main 338 items, and Fortiline 262 items, with awards based on the lowest price for each item. A higher-than-anticipated demand for air release valves has accelerated spending on the Core & Main contract. Unit prices have fluctuated throughout the contract term due to changes in metal markets and tariff increases, averaging a 7% increase across the three contracts, and are deemed reasonable.</p>												
4	Request for Proposals (RFP)	1411985846 TRALC Class Transformers for JEA Inventory	Phillips	Wesco Distribution, Inc.	Inventory	\$1,599,255.87	\$2,276,061.00	N/A	\$2,276,061.00	N/A	Two (2) Years w/Two (2) - 1 Yr. Renewals Start Date: 09/04/2025 End Date: 09/03/2027	N
<p>Advertised: 05/05/2025 Opened: 06/17/2025 Four (4) Bids Received Grosso Supply, Inc. Levine Electronics and Lectrics, Inc. ULS Corporate, Inc. Wesco Distribution, Inc. Public Evaluation Meeting: 08/07/2025 For additional information contact: Lynn Rix</p> <p>This award request is for the procurement of TRALC-class transformers for JEA, specifically for item IDs TRALC002, TRALC003, TRALC004, and TRALC005. These transformers are used in the downtown network area for electrical room vaults of high-rise buildings. There is currently a demand for the Gateway Jax N8 project.</p> <p>The TRALC002 transformer received bids from four (4) companies. Due to its highly specific application and the need to fit within a constrained space, meeting the technical requirements proved challenging. After extensive discussions, three of the four bidders were unable to meet the required specifications.</p> <p>Wesco Distribution, Inc. submitted proposals for ABB transformers for all four (4) items and was the only Responsive and Responsible Bidder whose submission met or exceeded the Minimum Qualifications outlined in the Solicitation.</p> <p>While the total bid amount is \$2,276,061.00, approximately 35% higher than the original business estimate, two of the transformers have not been purchased more than 15 years. Given the long procurement gap and current market conditions, the pricing is considered reasonable.</p>												

Consent Agenda Action

Committee Members in Attendance	Names	
Motion by:		
Second By:		
Committee Decision		

Regular Agenda

Award #	Type of Award	Solicitation # & Short Description/Title	VP	Awardee	Award Amount	Business Unit Estimate	Original Award Amount	New Not-to-Exceed	Amendments	Term	JSEB Participation (Y/N) If Y, then list company name(s) (% - S - awarded)	Action
1	Contract Increase	1411544246 Substation and Transmission Design Services (CCNA)	Erixton	Burns & McDonnell Power Engineers	\$1,660,648.00 \$0.00	\$1,660,648.00	\$3,805,000.00 \$3,805,000.00	\$5,465,648.00 \$3,805,000.00	N/A	Five (5) Years w/Two (2) - 1 Yr. Renewals Start Date: 06/01/2024 End Date: 05/31/2029	N	<p>Motion by:</p> <p>_____</p> <p>Second by:</p> <p>_____</p> <p>Committee Decision:</p> <p>_____</p>
	<p>Originally Awarded: 05/23/2024 For additional information contact: Jason Behr</p> <p>We are requesting a contract increase exclusively for Burns & McDonnell to support completion of existing projects and to initiate two new projects, as detailed in the backup documentation. This increase is necessary due to delays in finalizing the contract with Power Engineers, which disrupted the originally intended division of work between the two firms. As a result, Burns & McDonnell was assigned a larger portion of the workload. With Power Engineers now under contract, future work is expected to be distributed evenly between the two vendors in alignment with the original plan.</p> <p>This contract supports specialized electric substation and transmission engineering services and is intended to supplement internal resources when in-house capacity is insufficient to meet project timelines or in-service requirements. The scope includes highly technical engineering tasks that require firms with proven expertise and proficiency in industry-standard software such as MicroStation (Open Utilities Substation), AutoCAD (Civil 3D), CDEGS, AGI 32 (or similar), SKM, ETAP, ASPEN Line Data Base, PLS-CADD, PLS-Caisson, PLS-Tower, PLS-Pole, FAD Tools, CYME CYMCAP, and Polywater Pull Planner.</p> <p>There is no rate increase associated with this request beyond standard CPI adjustments already outlined in the existing contract terms.</p> <p>DISCUSSION/ACTION: DISCUSSION/ACTION PARTICIPANTS:</p>											
2	Invitation for Bid (IFB)	1412022051 Iron Ductile Poles for JEA Inventory	Phillips	Stuart C. Irby Company, LLC	\$488,289.06	\$396,461.10	N/A	\$488,289.06	N/A	One (1) Year w/ Two (2) 1-yr. Renewals Start Date: 09/04/2025 End Date: 09/03/2026	N	<p>Motion by:</p> <p>_____</p> <p>Second by:</p> <p>_____</p> <p>Committee Decision:</p> <p>_____</p>
	<p>Advertised: 08/01/2025 Opened: 08/12/2025 Three (3) Received Gresco Supply, Inc. \$343,859.73 McWane Poles, A division of McWane \$330,374.10 Stuart C. Irby Company, LLC \$329,767.20.</p> <p>For additional information contact: John Hernandez</p> <p>This award request is for the purchase of ductile iron poles to replenish JEA's inventory. These are standard transmission poles used for O&M installations across the JEA service area.</p> <p>This procurement began as a spot buy for 18 poles—9 each of POLD001 and POLD002. However, during the RFQ preparation, a strategic decision was made to place the entire class of poles under contract to improve procurement efficiency. The workbook was structured to distinguish between the spot buy and the contract bid.</p> <p>The contract bid totaled \$329,767.20 and was initially set as the Award amount. Subsequently, it was determined that although the \$158,521.86 spot buy was informal, it would be more transparent to include both the spot buy and the contract in the Award. As a result, the total Award amount was updated to \$488,289.06. While unit prices for the spot buy are listed on the bid form, they are not included in the contract bid total.</p> <p>At the bid opening, McWane Poles was announced as the low bidder. However, a subsequent review identified an arithmetic error in the bid workbook. Once corrected, Stuart C. Irby Company, LLC was determined to be the lowest responsive and responsible</p> <p>DISCUSSION/ACTION: DISCUSSION/ACTION PARTICIPANTS:</p>											

Consent and Regular Agenda Signatures

Budget	Name/Title _____
Awards Chairman	Name/Title _____
Procurement	Name/Title _____
Legal	Name/Title _____

The Chief Procurement Officer offers the following items for the IEA Awards Consent Agenda. Any item may be moved from the Consent Agenda to the Regular Agenda by a committee member asking that the item be considered separately. All items on the Consent agenda have been approved by Budget and the Business Unit Vice President. The posting of this agenda serves as an official notice of IEA's intended decision for all recommended actions above the formal threshold of \$300,000.00. Please refer to IEA's Procurement Code, if you wish to protest any of these items.

Consent Agenda																					
Award #	Agency Approval	VP Approval	Finance Approval	Requester	Purchasing Agent	Budget	Budget Amount this FY	Business Unit Estimate	Justification Amount	Type of Award	Justification of & Short Description Title	VP	Approver	Award Amount	Original Award Amount	Amendments	New Net-to-Expend	Term	Long Description	JNEB Participation (1-7%) if V (dot) Not (capital) awarded (1% = awarded)	Supplier Contact Information
4				James Butler	Lynn Ede	Inventory	N/A	\$1,198,200.00	N/A	Request for Proposals (RFP)	10132001 TRAC-Cam Transmitters for IEA Inventory	Philip	Steve Hutchinson, Inc.	\$2,179,000.00	N/A	N/A	\$2,179,000.00	Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request	10132001 TRAC-Cam Transmitters for IEA Inventory. The contract is for the procurement of TRAC-Cam transmitters for IEA, specifically for use by TRAC-CHE, TRAC-ICE, TRAC-IDE, and TRAC-IDE-2. The contract is for a 3-year term.	N	Steve Hutchinson, Inc. 10132001 TRAC-Cam Transmitters for IEA Inventory. Procurement Code: 10132001 TRAC-Cam Transmitters for IEA Inventory.
Meal #A.11				Spencer Barnhart	Ernie Bde	Capital	\$650,000.00	\$1,540,000.00	N/A	Contract Services	10132001 Maintenance and Improvement/Repair Services	Ernie	Steve & McDaniel Food Services	\$1,540,000.00	\$1,000,000.00	N/A	\$1,540,000.00	Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request	10132001 Maintenance and Improvement/Repair Services. The contract is for the procurement of maintenance and improvement/repair services for IEA. The contract is for a 3-year term.	N	Steve & McDaniel Food Services 10132001 Maintenance and Improvement/Repair Services. Procurement Code: 10132001 Maintenance and Improvement/Repair Services.
Meal #A.12				James Butler	Jahn Brunsdale	Inventory	N/A	\$799,000.00	N/A	Inventory for Meal #A.12	10132001 Item Supply Procurement Agreement	Philip	Planet IT - 500 Company, LLC	\$880,000.00	N/A	N/A	\$880,000.00	Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request	10132001 Item Supply Procurement Agreement. The contract is for the procurement of item supply procurement services for IEA. The contract is for a 3-year term.	N	MMA, Minnesota - 10132001 Item Supply Procurement Agreement. Procurement Code: 10132001 Item Supply Procurement Agreement.
Regular Agenda																					
Award #	Agency Approval	VP Approval	Finance Approval	Requester	Purchasing Agent	Budget	Budget Amount this FY	Business Unit Estimate	Justification Amount	Type of Award	Justification of & Short Description Title	VP	Approver	Award Amount	Original Award Amount	Amendments	New Net-to-Expend	Term	Long Description	JNEB Participation (1-7%) if V (dot) Not (capital) awarded (1% = awarded)	Supplier Contact Information
1				Spencer Barnhart	Ernie Bde	Capital	\$650,000.00	\$1,540,000.00	N/A	Contract Services	10132001 Maintenance and Improvement/Repair Services	Ernie	Steve & McDaniel Food Services	\$1,540,000.00	\$1,000,000.00	N/A	\$1,540,000.00	Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request	10132001 Maintenance and Improvement/Repair Services. The contract is for the procurement of maintenance and improvement/repair services for IEA. The contract is for a 3-year term.	N	Steve & McDaniel Food Services 10132001 Maintenance and Improvement/Repair Services. Procurement Code: 10132001 Maintenance and Improvement/Repair Services.
2				James Butler	Jahn Brunsdale	Inventory	N/A	\$799,000.00	N/A	Inventory for Meal #A.12	10132001 Item Supply Procurement Agreement	Philip	Planet IT - 500 Company, LLC	\$880,000.00	N/A	N/A	\$880,000.00	Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request Proc ID: 2006-07-20 - 1-90 - Request	10132001 Item Supply Procurement Agreement. The contract is for the procurement of item supply procurement services for IEA. The contract is for a 3-year term.	N	MMA, Minnesota - 10132001 Item Supply Procurement Agreement. Procurement Code: 10132001 Item Supply Procurement Agreement.

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2				Crab Edge	April Love	GM		\$1,500,000.00	N/A	Change Order	CGE Field Management System (FMS) CRM Software Support	Sellers	CGE Technology and Solutions, Inc.	\$95,273.89	1,384,726.11	N/A	\$1,281,368.89		<p>This change order request is for \$1,281,368.89 to modify the contract entered by the CGE project under as part of the award implementation of the new Operational solution for JEA's Field Management System, and \$1,373,140 for new to-being order implementation under the Operational solution for JEA's Health View functionality and updates to the Show Job feature. The work to be done will be to install an additional email notification system for the field agents. Although the contract is currently in a suspension status, the work and the integrity is stated from the original contract without any other conditions. The Show Job feature will be updated to reflect the newly selected long location to be shown. A single will be added to view the functionality over or off together. These enhancements require ongoing field and all management across JEA's field operations. This project is estimated to be completed by the end of January 2026.</p> <p>Show (Y) Item Show Date: 11/13/2024 End Date: 11/30/2027</p>	N	
Regular Agenda																					
Award #	Jeany Approval	VP Approval	Finance Approval	Requester	Purchasing Agent	Budget	Budget Amount this FY	Business Unit Estimate	Ratification Amount	Type of Award	Solicitation # & Short Description	VP	Awardee	Award Amount	Original Award Amount	Amendments	New Not-to-Exceed	Term	Long Description	JSEB Participation (Y/N) if V (the full company name) (%), (S - awarded)	Supplier Contact Information
				Crab Edge	April Love	GM		\$1,500,000.00	N/A	Change Order	Operational Transformation	Sellers	CGE Technology and Solutions, Inc.	\$95,273.89	5,375,000.00	<p>07/26/2024 \$175,000.00 08/10/2024 \$1,100,000.00 07/08/2025 \$1,000,000.00</p>	\$6,176,273.89		<p>Show (Y) Item Show Date: 11/13/2024 End Date: 11/30/2027</p>	N	

JEA Awards Agenda
August 14, 2025
225 North Pearl St., Jacksonville, FL 32202 - Board Room 1st Floor

[Teams Meeting Info](#)

Consent Agenda

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1	Minutes	Minutes from 08/07/2025 Meeting	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Cost Participation	2022-1470 Lem Turner Water Main and Forcemain	Zammataro	JSH Braddock Development, LLC	Capital	\$6,598,293.06	\$4,411,328.15	N/A	\$4,411,328.15	N/A	Project Completion Start: 08/01/2025 End : 06/30/2026	N/A
<p>For more information contact: David King</p> <p>This award request is for a Developer Cost Participation Agreement. The project involves extending JEA's water and wastewater utility systems to serve the 1,959-unit Kings Creek residential development in Duval County. This project is developer driven, so all design and engineering were completed by the developer at their cost (no JEA funds for design). JEA Development has reviewed and approved the construction plan submittal. Per the Cost Participation Agreement, the Developer solicited the project in accordance with JEA guidelines and the work has been awarded to the highest evaluated proposal. While seven companies attended the pre-proposal meeting, only Petticoat-Schmitt submitted a proposal. Other companies indicated they were either fully committed to existing construction schedules or engaged in bidding other projects. The project scope is comprised as follows: Install 8,528 feet of 20" transmission water main (64% JEA participation); 7,528 feet of 20" force main (75% JEA participation).</p> <p>The proposal is approximately 33% below the JEA estimate. The JEA estimate included the material, labor, and equipment. JEA is reimbursing in accordance with the Cost Participation Policy for transmission sized mains, and the bid amount is deemed reasonable.</p>												
3	Invitation to Bid (IFB)	1411983051 8751 Bayleaf Dr. Class III Pump Station/Watermain & Force Main Upgrade	Zammataro	United Brothers Development Corporation	Capital	\$8,431,850.00	\$8,103,166.00	N/A	\$8,103,166.00	NA	Project Completion Start: 10/01/2025 End : 10/15/2026	Y Legacy Engineering \$20,000.00 RZ Service Group \$715,000.00 D&J Erosion Control Services \$25,000.00
<p>Advertised: 06/05/2025 Opened: 07/22/2025 Three (3) proposals received United Brothers Development Corp \$8,103,166.00 Ferreira Construction Southern Division, Inc. \$9,149,385.00 Sawcross, Inc. \$11,159,635.00</p> <p>For more information contact: David King</p> <p>This award request is for the procurement of construction services for a new Class III pump station, which is essential to replace aging water and wastewater infrastructure, ensuring reliable utility service, regulatory compliance, and uninterrupted operations during and after construction. The project scope includes demolishing and replacing existing water and wastewater force mains and related infrastructure at the 8751 Bayleaf Drive Pump Station, as well as performing utility work within and across the I-95 right-of-way to support the new installation. The project will use the existing 480-volt electrical service and remain within the current right-of-way and easements. Major work elements include demolition of the existing pump station, construction of a new 12-foot-diameter concrete wet well, installation of a backup diesel generator, and installation of new force main and water main piping systems, including 12-inch casings beneath I-95.</p> <p>The proposal submitted by United Brothers is approximately 3.9% below the construction estimate and is deemed reasonable.</p>												
4	Contract Increase	1410805246 WRF Mandarin Sludge Holding Tanks Rehab	Zammataro	Ferreira Construction Southern Division Co. Inc.	Capital	\$781,850.00	\$781,850.00	\$2,798,415.75	\$3,580,265.75	N/A	Project Completion Start: 07/30/2024 End: 10/25/2025	N/A
<p>Originally Awarded: 07/11/2024</p> <p>For more information contact: David King</p> <p>This contract increase request is being submitted to the Awards Committee for approval because additional work has been identified and funding is required to complete the project. The scope of work includes repairs to two sludge holding tanks, installation of temporary bypass piping, and relocation of existing pumps to enable the use of a temporary ground storage tank at the Mandarin Water Reclamation Facility.</p> <p>The increase includes \$541,850.00 to incorporate additive alternates that were part of the original bid but excluded from the contract. This project was one of the defaults under the Williams contract, and these additive alternates were not included in either the original Williams contract or the initial Ferreira contract while the surety claim was being resolved. In addition, JEA is increasing the Supplemental Work Authorization (SWA) by \$240,000.00 to fund SWA #6 and to address potential risks from undiscovered concrete surface and crack repairs in the tanks. These unforeseen repairs may require additional materials and equipment, such as valves, high-pressure cleaning, dome repairs, transmitters, piping, and resurfacing.</p>												
5	Contract Increase	1411180646 ITN JEA Fleet Services Heavy Duty Maintenance and Repair Services	Phillips	Tom Nehl Truck Company	O & M	\$992,387.50	\$992,387.50	\$2,281,278.27	\$3,273,665.77	N/A	Three (3) Years w/Two (2) - 1 Yr. Renewals Start Date: 08/01/2023 End Date: 07/31/2026 Two (2) Renewals Remaining	N
<p>Originally Awarded: 07/20/2023 For additional information contact: Halley Stewart</p> <p>This award requests a contract increase for JEA Fleet Services Heavy Duty Maintenance and Repair Services. The Tom Nehl Truck Company was originally awarded in the amount of \$2,281,278.27. The scope of services includes preventative maintenance, corrective maintenance, yard checks, and road calls to support JEA operations, as well as ad-hoc services.</p> <p>The original contract award amount was based on services for Heavy Duty Freightliner, with Sprinter Vans added in August 2024. Since the contract was awarded, we have experienced increased spend in both corrective and preventative maintenance. These increases in spend are attributed to Mutual Aid Support, which has led to additional engine hours and mileage (wear and tear), unforeseen accident repairs, and an average 6% asset increase over the past two (2) years.</p> <p>This request is to award a contract increase to Tom Nehl Truck Company in the amount of \$992,387.50 resulting in a new NTE total of \$3,273,665.77. The proposed increase is based on forecasted expenditures through the current term ending July 31, 2026, and includes an additional 6% to account for the average annual asset additions. The service rates remain unchanged.</p>												

Consent Agenda Action

Committee Members in Attendance	Names	<u>Julia Crawford , Garry Baker , Jordan Pope</u>
Motion by:	Jordan Pope	
Second By:	Garry Baker	
Committee Decision	Approved	

Regular Agenda

Award #	Type of Award	Solicitation # & Short Description/Title	VP	Awardee	Award Amount	Business Unit Estimate	Original Award Amount	New Not-to-Exceed	Amendments	Term	JSEB Participation (Y/N) If Y, then list company name(s) (% , \$ - awarded)	Action
1	Single Source	Network Protectors for JEA Inventory	Phillips	Eaton Corporation, PLC	\$1,306,840.02	\$1,228,511.70	N/A	\$1,306,840.02	N/A	Five (5) Years w/Two (2) - 1 Yr. Renewals Start Date: 08/28/2025 End Date: 08/27/2030	N	<p>Motion by: Garry Baker</p> <p>Second by: Jordan Pope</p> <p>Committee Decision: Approved</p>
<p>For additional information contact: Lynn Rix</p> <p>This Award request is to contract with Eaton Corporation, PLC for the procurement of both submersible and non-submersible network protectors equipped with SCADA relays.</p> <p>Network protectors play a critical role in the downtown electrical network by working alongside TRALC transformers. Their primary function is to automatically disconnect secondary customers when power flow reverses, thereby protecting the valuable TRALC transformers from potential damage. Given that the secondary network in downtown is interconnected, the risk of reverse power flow is significant.</p> <p>Previously, we sourced these network protectors from a different manufacturer. However, as part of our ongoing efforts to modernize and replace aging infrastructure dating back to the 1970s and 1980s, the Eaton units offer advanced features that are expected to enhance both reliability and overall system performance.</p> <p>The quoted cost is \$78,328.32 or 6% higher than the original business estimate. However, this increase aligns with Eaton's Commodity Price Index (attached) and is considered reasonable. The vendor quote and single-source justification form are attached as backup.</p> <p>DISCUSSION/ACTION: There are two suppliers that supply network protection. JEA is awarding this as a single source due to this supplier having a better network Protector and more functionality. DISCUSSION/ACTION PARTICIPANTS: Julia Crawford, Kris Rosenhauer</p>												

Consent and Regular Agenda Signatures

Budget	Name/Title	<u>Stephanie M Healy</u>
Awards Chairman	Name/Title	<u>Juli Crawford</u>
Procurement	Name/Title	<u>Lisa Pleasants</u> on behalf of Jenny McCollum
Legal	Name/Title	<u>Rebecca Lavis</u>

**CONTRACT
BETWEEN
JEA
AND
CGI TECHNOLOGIES AND SOLUTIONS INC.
JEA CONTRACT # JEA12217**

THIS CONTRACT (hereinafter the (“Contract”)) is made and entered into this 14th day of November, 2024, (the “Effective Date”), by and between **JEA**, a body politic and corporate in Jacksonville, Florida (“JEA”), and **CGI TECHNOLOGIES AND SOLUTIONS INC.**, a Delaware corporation authorized to perform work in the State of Florida, with a principal address of 11325 RANDOM HILLS RD, FAIRFAX, Virginia, 22030, United States (the “Company”).

WITNESSETH

WHEREAS, pursuant to Article 3-117 of the JEA Procurement Code, JEA is authorized to procure supplies and services as a Single Source;

WHEREAS, JEA has requested, and Company has agreed to provide, **CGI Field Management System (FMS-CAD) Software Support** as identified in **Exhibit A**, attached hereto (the “Work”); and

WHEREAS, on November 14, 2024, the JEA Awards Committee awarded this contract to Company;

NOW THEREFORE, in consideration of the mutual promises and covenants herein contained, and for other good and valuable consideration, the parties agree as follows:

1. **Engagement and Performance of Work.** JEA engages Company to perform the Work, and Company shall perform the Work in accordance with the terms and conditions of this Contract.

2. **Compensation.** JEA shall pay the Company for the Work (as defined in **Exhibit B**) in accordance with the terms of this Contract and the pricing included in Company’s Quotation dated **September 23, 2024**, and attached to this Contract as **Exhibit A** (the “Proposal”).

3. **Maximum Indebtedness.** JEA’s maximum indebtedness for all fees, costs, expenses and all other amounts payable under this Contract shall be a fixed monetary amount not-to-exceed **One Million One Hundred Ninety Six Thousand Five Hundred Ninety Three and 00/100 Dollars (\$1,196,593.00)**. All amounts payable under this Contract are contingent upon the existence of lawfully appropriated funds therefor. Any travel related expenses shall be pre-approved by JEA and invoiced in accordance with JEA’s Travel Policy.

4. **Term.** The Contract shall commence on the effective date of the Contract and continue and remain in full force and effect as to all its terms, conditions and provisions as set forth herein for three years ending **November 30, 2027**. JEA may renew the Contract in its for two additional one-year periods upon execution of a written amendment executed by JEA and

Company. The Contract shall be contingent upon the existence of lawfully appropriated funds for the Contract. Certain provisions of the Contract may extend past termination including, but not limited to, Warranty and Indemnification provisions.

5. Contract Terms and Conditions. Contract Documents. This Contract consists of the following documents (the “Contract Documents”) which are incorporated by reference as if fully set forth herein and which, in case of conflict, shall have priority in the order listed below:

- This document, as modified by any subsequently signed amendments
- Company’s Proposal attached as **Exhibit A**
- Software Support Agreement between JEA and CGI dated December 1, 2010 (the “Agreement”).



2010 Maintenance
Agreement v.1.pdf

- JEA Additional Contract Terms and Conditions attached as **Exhibit B**

6. Notices.

All notices under this Contract shall be in writing and shall be delivered by email (delivery receipt requested), certified mail (return receipt requested), or by other delivery with receipt to the following:

As to JEA:

JEA
225 N. Pearl Street
Jacksonville, Florida 32202
Attn: Steve Selders
Email: seldsg@jea.com

and to:

JEA
225 N. Pearl Street
Jacksonville, Florida 32202
Attn: Heather Beard, Procurement Contract Administration
bearhb@jea.com

As to the Company:

CGI Technologies and Solutions Inc.
1350, Rene-Levesque Blvd. West, 15th Floor Montreal, Quebec,
Canada H3G IT4
Attention: Richard Gobeil Fax: (514) 415-3999
Richard.Gobeil@cgi.com

and to:

Matthew Balog
CGI Technologies and Solutions Inc.
11325 RANDOM HILLS RD, FAIRFAX, Virginia, 22030, United States
Matthew.Balog@cgi.com

7. **Authority.** Company represents and warrants to JEA that Company has full right and authority to execute and perform its obligations under this Contract, and Company and the person(s) signing this Contract on Company's behalf represent and warrant to JEA that such person(s) are duly authorized to execute this Contract on Company's behalf without further consent or approval by anyone. Company shall deliver to JEA promptly upon request all documents reasonably requested by JEA to evidence such authority.

8. **Entire Agreement.** This Contract constitutes the entire agreement between the parties hereto for the Work to be performed and furnished by the Company. No statement, representation, writing, understanding, agreement, course of action or course of conduct, made by either party or any representative of either party, which is not expressed herein shall be binding. Company may not unilaterally modify the terms of this Contract by affixing additional terms to materials delivered to JEA (e.g., “shrink wrap” terms accompanying or affixed to a deliverable) or by including such terms on a purchase order or payment document. Company acknowledges that it is entering into this Contract for its own purposes and not for the benefit of any third party.

9. **Amendments.** All changes to, additions to, modifications of, or amendment to this Contract, or any of the terms, provisions and conditions hereof, shall be binding only when in writing and signed by the authorized officer, agent or representative of each of the parties to this Contract.

10. **Counterparts.** This Contract, and all amendments hereto, may be executed in several counterparts, each of which shall be deemed an original, and all of such counterparts together shall constitute one and the same instrument. This Contract may be delivered by facsimile or by email transmittal of a PDF image, and such facsimile or PDF counterparts shall be valid and binding on JEA and Company with the same effect as if original signatures had been exchanged.

[Remainder of page left blank intentionally. Signature page follows immediately.]

IN WITNESS WHEREOF, the parties hereto have duly executed this Contract as of the Effective Date.

JEA:

WITNESS:

JEA

JEA

Signature:

Signature:



Signed on 01/08/2025 | 12:03:00 (GMT -5:00)

Signed on 01/08/2025 | 06:58:14 (GMT -5:00)

Email: gleejs@jea.com
Name: Jenny McCollum
Title: Director, Procurement Services
Date: 01/08/2025 | 12:03:00 (GMT -5:00)

Email: talljb@jea.com
Name: Jessie Talley
Title: Contracts Associate
Date: 01/08/2025 | 06:58:14 (GMT -5:00)

COMPANY:

CGI TECHNOLOGIES AND SOLUTIONS,
INC.

Signature:



Signed on 01/07/2025 | 21:15:47 (GMT -5:00)

Email: craig.naha@cgi.com
Name: craig.naha@cgi.com
Title: VP - Utilities
Date: 01/07/2025 | 21:15:47 (GMT -5:00)

FORM APPROVED:

JEA

Signature:



Signed on 01/08/2025 | 09:09:04 (GMT -5:00)

Email: lavirc@jea.com
Name: Rebecca Lavie
Title: Assistant General Counsel
Date: 01/08/2025 | 09:09:04 (GMT -5:00)

**EXHIBIT A
COMPANY'S PROPOSAL**



BY EMAIL

September 23, 2024

Mr. Troy Tremble
Manager – Field and Outage Management IT Systems
JEA
21, West Church Street T13
Jacksonville, Florida 32202 USA

Subject: Software Support Agreement - 3 Year Extension

Dear Mr. Tremble:

The purpose of this letter is to extend the current Software Support Agreement by three years following the current expiration date of November 30, 2024.

The terms and conditions of the current Software Support Agreement remain unchanged except as follows:

- The end date of the Release Support Period in Appendix C (Term/Specific Conditions) has been updated to November 30, 2027, to reflect the three year extension. This Appendix has been attached herewith.

Annual CGI Support fees and HERE Usage fees

The following table summarizes the CGI Licenses Prima 3-year support fees and HERE Usage fees that cover the period of December 1st, 2024, to November 30, 2027.

Description	Fees
CGI OpenGrid Licenses Support (incl. last year's CCPI):	\$288,300
HERE Annual Usage fees (incl. last year's CCPI):	<u>\$63,287</u>
Sub-Total (2023-2024):	\$351,587
Annual increase at 3.0%	\$10,548
OpenGrid Insights License Support	<u>\$25,000</u>
Total Year 1 (12/1/24 - 11/30/25)	\$387,134
Total Year 2 (12/1/25 - 11/30/26)	\$398,748
Total Year 3 (12/1/26 - 11/30/27)	\$410,711

The Appendix D herewith attached replaces the Appendix D of the Agreement.

Please indicate your acknowledgement of this Support Agreement Renewal Notice Letter by providing your signature in the designated space on the next page.



Please ensure that the following statement “*JEA’s Purchase Order shall be governed by the terms and conditions of the Software Support Agreement between JEA and CGI dated December 1, 2010. Any terms and conditions contained in the Purchase Order shall be void and of no effect, even if signed by the party against which their enforcement is sought.*” appears on the Purchase Order.

Should you require additional information, please do not hesitate to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Matthew P. Balog".

Matthew Balog
Vice-President, Consulting Services

JEA

By: _____

Name:

Title:

Date:

Appendix C

Term/Specific Conditions

The Effective Date of the Original Agreement is December 1, 2010, with a term of three years.

In 2013, the parties renewed this Agreement for one (1) additional year ending November 30, 2014.

In 2014, the parties renewed this Agreement for one (1) additional year ending November 30, 2015.

In 2015, the parties renewed this Agreement for three (3) additional years ending November 30, 2018 (Agreement Letter dated August 17, 2015).

In 2018, the parties renewed this Agreement for three (3) additional years ending November 30, 2021 (Agreement Letter dated November 23, 2018).

In 2021, the parties renewed this Agreement for one (1) additional year ending November 30, 2022.

In 2022, the parties renewed this Agreement for one (1) additional year ending November 30, 2023.

In 2023, the parties renewed this Agreement for one (1) additional year ending November 30, 2024.

In 2024, the parties renewed this Agreement for three (3) additional years ending November 30, 2027.

This Agreement is being renewed for an additional three (3) years.

The Release Support Period starts on the Effective Date and ends on November 30, 2027.

Appendix D

Summary of Support Fees

Customer agrees to pay the following annual support fees:

Description	Fees
CGI OpenGrid Licenses Support (incl. last year's CCPI):	\$288,300
HERE Annual Usage fees (incl. last year's CCPI):	<u>\$63,287</u>
Sub-Total (2023-2024):	\$351,587
Annual increase at 3.0%	\$10,548
OpenGrid Insights License Support	<u>\$25,000</u>
Total Year 1 (12/1/24 - 11/30/25)	\$387,134
Total Year 2 (12/1/25 - 11/30/26)	\$398,748
Total Year 3 (12/1/26 - 11/30/27)	\$410,711

The CGI licenses and quantities covered under this support agreement are as follows:

CGI Licenses	Qty
OpenGrid Workforce	1
OpenGrid Field	465
OpenGrid Field - Supervisor	15
OpenGrid Network	1
OpenGrid Insights	1

HERE Licenses Annual Usage Fees

The HERE licenses and quantities covered under this agreement are as follows:

HERE License Description	Qty
HERE licenses for OpenGrid Workforce (previously PragmaWEB users- A minimum of 100 users) <i>Note: This annual price offers an annual map upgrade</i>	1 block of 100
HERE licenses for OpenGrid Workforce (previously ROMS Dispatchers Full time, as previously purchased) <i>Note: This annual price offers an annual map upgrade</i>	10
HERE licenses for 465 OpenGrid Field and 15 OpenGrid Field Supervisor <i>Note: This annual price offers an annual map upgrade</i>	480

EXHIBIT B
JEA ADDITIONAL CONTRACT TERMS AND CONDITIONS

1.1.1. SUNSHINE LAW

General

Article I, Section 24, Florida Constitution, guarantees every person access to all public records and Chapter 119, Florida Statutes, provides a broad definition of public records. JEA is a body politic and corporate and subject to these laws and related statutes ("Florida's Public Records Laws"). All documents provided to JEA are public record and available for public inspection unless specifically exempt by law.

Redacted Submissions

If Company believes that any portion of the documents, data or records submitted to JEA are exempt from Florida's Public Records Law, Company must (1) clearly segregate and mark the specific sections of the document, data or records as "Confidential," (2) cite the specific Florida Statute or other legal authority for the asserted exemption, and (3) provide JEA with a separate redacted copy of its response (the "Redacted Copy"). The cover of the Redacted Copy shall contain JEA's contract number and Company's name, and shall be clearly labeled "Redacted Copy." Company should only redact those portions of records that Company claims are specifically exempt from the Florida Public Records Laws. If Company fails to submit a redacted copy of information it claims is confidential, JEA is authorized to produce all documents, data and other records submitted to JEA in answer to a public records request for such information.

In the event of a request for public records to which documents that are marked as confidential are responsive, JEA will provide the Redacted Copy to the requestor. If a requestor asserts a right to any redacted information, JEA will notify Company that such an assertion has been made. It is Company's responsibility to respond to the requestor to assert that the information in question is exempt from disclosure under applicable law. If JEA becomes subject to a demand for discovery or disclosure of Company's redacted information under legal process, JEA shall give Company prompt notice of the demand prior to releasing the information (unless otherwise prohibited by applicable law). Company shall be responsible for defending its determination that the redacted portions of its response are not subject to disclosure.

Company agrees to protect, defend, and indemnify JEA from and against all claims, demands, actions, suits, damages, losses, settlements, costs and expenses (including but not limited to reasonable attorney fees and costs) arising from it relating to Company's determination that the redacted portions of any documents submitted to JEA are not subject to disclosure.

IF THE COMPANY HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE COMPANY'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

**Public Records Request Coordinator
225 N Pearl St.**

Jacksonville, FL 32202

Ph: 904-665-8606

publicrecords@jea.com

1.1.2. CERTIFICATION AND REPRESENTATIONS OF THE COMPANY

By executing this Contract, the Company certifies and represents as follows:

- A. That it has carefully examined all available records and conditions, including sites if applicable, and the requirements and specifications of the Contract prior to execution. Where the Company visits sites, no Work or other disturbance is to be performed while at the site without written permission by JEA in advance of the site visit. The Company shall comply with all safety requirements described in the Contract and shall be prepared to show proof of insurance.
- B. That every aspect of the Contract, including the Quotation of Rates and the detailed schedule for the execution of the Work, are based on its own knowledge and judgment of the conditions and hazards involved, and not upon any representation of JEA. JEA assumes no responsibility for any understanding or representation made by any of its representatives during or prior to execution of the Contract unless such understandings or representations are expressly stated in the Contract and the Contract expressly provides that JEA assumes the responsibility.
- C. That the individual executing the Contract is a duly authorized agent or officer of the firm. Contracts executed by a corporation must be executed in the corporate name by the President or Vice President. If an individual other than the President or Vice President signs the Contract, satisfactory evidence of authority to sign may be requested by JEA. If the Contract is executed by a partnership, the Contract must be signed by a partner whose title must appear under the signature. If an individual other than a partner signs the Contract, satisfactory evidence of authority to sign may be requested by JEA. The corporation or partnership must be in active status at the Florida Division of Corporations at the time of contract execution.
- D. That the Company maintains an active status any and all licenses, permits, certifications, insurance, bonds and other credentials including not limited to contractor's license and occupational licenses necessary to perform the Work. The Company also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Company shall immediately notify JEA of status change.
- E. That Company has read, understands these instructions and will comply with the Section titled Ethics.

JEA will make payments upon the actual quantities of Work provided and JEA shall not be obligated, in any way, to pay any amounts for quantities other than those actually provided and authorized under the Contract.

Any item shown in the drawings submitted to JEA, that is required to perform the Work, or that is required as part of a complete and operable system, shall be included in the Contract Price.

1.1.3. SCRUTIZED COMPANIES

Pursuant to Section 287.135(2), Florida Statutes, a company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with an agency or local government entity for goods or services of:

- (1) Any amount if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, contractor is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel; or
- (2) One million dollars or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, contractor:
 - i. Is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List created pursuant to Section 215.473, Florida Statutes; or
 - ii. Is engaged in business operations in Cuba or Syria.

Pursuant to Section 287.135(3)(a)4, Florida Statutes, JEA may terminate this Contract at JEA's option if this Contract is for goods or services in an amount of one million dollars or more and the Company:

- (1) Is found to have submitted a false certification under Section 287.135(5), Florida Statutes;
- (2) Has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List created pursuant to Section 215.473, Florida Statutes;
- (3) Is engaged in business operations in Cuba or Syria.

Pursuant to Section 287.135(3)(b), Florida Statutes, JEA may terminate this Contract at JEA'S option if this Contract is for goods and services of any amount and Company:

- (1) Is found to have been placed on the Scrutinized Companies that Boycott Israel List; or
- (2) Is engaged in a boycott of Israel.

1.1.4. ETHICS

The Company shall comply with all JEA and City of Jacksonville ordinances, policies and procedures regarding business ethics.

The Company shall disclose the name(s) of any public officials who have any financial position, directly or indirectly, with the Contract by completing and submitting the Conflict of Interest Certificate Form available at jea.com.

JEA is prohibited by its Charter from awarding contracts to JEA officers or employees, or in which a JEA officer or employee has a financial interest. JEA shall terminate any and all Contracts in which a JEA officer or employee has a financial interest.

In accordance with Florida Statutes Sec. 287.133, JEA shall not contract with any persons or affiliates convicted of a public entity crime as listed on the Convicted Vendor list maintained by the Florida Department of Management Services. JEA shall not enter into a contract with any officer, director, executive, partner, shareholder, employee, member, or agent active in management of the Company listed on the Convicted Vendor list for any transaction exceeding \$35,000.00 for a period of thirty-six (36) months from the date of being placed on the Convicted Vendor list.

If the Company violates any requirement of this Section, the Contract may be terminated and JEA may debar offending companies and persons.

1.1.4 JEA CONTRACTOR TRAVEL POLICY

To the extent the Company's fees include reimbursement for travel and travel related expenses, only the authorized expenses described here in will be reimbursed. The Company must request approval in writing from the JEA Project Manager for all travel for a specific person on official JEA business prior to commencement of travel. JEA will only reimburse the Company for actual cost of travel expenses that are documented with receipts submitted with the expense statement (the "Traveler"). The Traveler shall choose the most economical means of transportation, considering the nature of the business, the Traveler's time, cost of transportation, meals, lodging and incidental expenses required. Reimbursement shall be made only for travel performed over usually regularly traveled routes to the destination. When travel is by indirect route for the Traveler's own convenience, reimbursement for expenses shall be based only on such charges as would have been incurred over the usually traveled route.

Authorized Expenses:

Airplane

Travel by common carrier shall be reimbursed at the lowest coach fare rate available (except that the first class rate is authorized if coach fare is not available). Reservations for a Saturday night stay over are encouraged if it results in a net savings after considering all incremental travel related expenses.

Reimbursement for rented aircraft shall be based on the hourly rental rate for the aircraft, including fuel, if the cost of renting the aircraft can be demonstrated to be less than the lowest available common carrier coach fare.

A copy of the itinerary showing the cost must be submitted along with the expense statements.

Private Automobiles

If the total miles from the departure point to destination exceeds 400 miles round trip, the mileage reimbursement for use of a private motor vehicle shall be limited to the lesser of:

- IRS-authorized mileage rates described in Section 106.706 of the Ordinance Code, City of Jacksonville; or
- the lowest airline common carrier coach fare available to the nearest airport plus IRS-authorized mileage rate per mile from the airport to the destination.

If travel is by private automobile, reimbursement shall be based on IRS authorized mileage rate in existence at the time of travel. All mileage shall be completed from the constructive point of origin to the point of destination. Vicinity mileage incurred while driving on official business may also be reimbursed. No other reimbursement for expenses related to the operation, maintenance and

ownership of a vehicle shall be allowed when a private motor vehicle is used on public business.

Car Rental

Rental cars shall be approved only if taxis or other means of transportation are less economical or otherwise impractical.

Every effort shall be made to coordinate travel so that Travelers share a rental car and thereby eliminate multiple cars at the same location. Travelers shall use the intermediate or midsize class vehicles unless the number of passengers or the volume of equipment makes the intermediate/midsize class impractical. Personal accident insurance purchased by the traveler will not be reimbursed by JEA.

A copy of itemized rental car charges will be made and submitted with the expense statement.

Lodging

Reasonable reimbursement will be made for the cost of overnight lodging when a Traveler is away from his/her place of residence. Travelers shall select lodging, which is the most economically available, consistent with the duties being performed. Travelers will be reimbursed for a single room rate; double occupancy rates may be obtained if two Travelers share a room.

Travelers must document all lodging expenses with itemized statement and paid receipt from lodging facility. A copy of the receipt must be submitted with the expense statement. Personal expenses such as entertainment, in-room movies, in-room services, in-room concessions (i.e., mini-bar charges) and other personal charges will not be reimbursed.

Meals

Reimbursement is authorized for meals for all travelers while in a business travel status at the Federal Meal Pre-Diem for Jacksonville which can be found at Per diem rates | GSA.

Incidental Transportation Expenses

The following expenses incidental to transportation of the Traveler may be reimbursed:

- Taxi fare
- Ferry fares, bridge, rail and tunnel tolls
- Storage and parking fees
- Valet parking may be selected when there is not a more economical means of parking or where less economical options present a safety concern. Justification for the use of valet parking must be provided.
- One of the long-term (non-valet) airport parking options (vs. hourly parking) must be utilized for approved travel greater than 24 hours.
- Reasonable gratuities for services incurred at a cost (not to exceed 20% of the cost of the service or to exceed the total subsistence allowance in the case of meals)
- Reasonable gratuities for services incurred without a cost (limited to \$10 per day) (receipt not required, but service justification must be indicated)

1.1.5 INSURANCE REQUIREMENTS

Before starting and until Acceptance of the Work by JEA, and without further limiting its liability under the Contract, Company shall procure and maintain at its sole expense, insurance of the types and in the minimum amounts stated below:

Workers' Compensation

Florida Statutory coverage and Employer's Liability (including appropriate Federal Acts); Insurance Limits: Statutory Limits (Workers' Compensation) \$500,000 each accident (Employer's Liability).

Commercial General Liability

Premises-Operations, Products-Completed Operations, Contractual Liability, Independent Contractors, Broad Form Property Damage, as appropriate; Insurance Limits: \$1,000,000 each occurrence, \$2,000,000 annual aggregate for bodily injury and property damage, combined single limit.

Automobile Liability

All autos-owned, hired, or non-owned; Insurance Limits: \$1,000,000 each occurrence, combined single limit.

Excess or Umbrella Liability

(This is additional coverage and limits above the following primary insurance: Employer's Liability, Commercial General Liability, and Automobile Liability); Insurance Limits: \$2,000,000 each occurrence and annual aggregate.

Company's Commercial General Liability and Excess or Umbrella Liability policies shall be effective for two (2) years after Work is complete. The Indemnification provision provided in these terms and conditions is separate and is not limited by the type of insurance or insurance amounts stated above.

Company shall specify JEA as an additional insured for all coverage except Workers' Compensation and Employer's Liability. Such insurance shall be primary to any and all other insurance or self-insurance maintained by JEA. Company shall include a Waiver of Subrogation on all required insurance in favor of JEA, its board members, officers, employees, agents, successors and assigns.

Such insurance shall be written by a company or companies licensed to do business in the State of Florida and satisfactory to JEA. Prior to commencing any Work under this Contract, certificates evidencing the maintenance of the insurance shall be furnished to JEA for approval. Company's and its subcontractors' Certificates of Insurance shall be mailed to JEA (Attn. Procurement Services), Customer Care Center, 6th Floor, 21 West Church Street, Jacksonville, FL 32202-3139.

The insurance certificates shall provide that no material alteration which is directly related to the requirements of this Contract or cancellation, including expiration and non-renewal, shall be effective until thirty (30) days after receipt of written notice by JEA.

Any subcontractors of Company shall procure and maintain the insurance required of Company during the life of the subcontracts. Subcontractors' insurance may be either by separate coverage or by endorsement under insurance provided by Company. Note: Any JSEB firms identified by Company for the Contract are considered "Subcontractors" under the direct supervision of the Prime or General Contractor (herein referred to as "Company"). Company should show good faith efforts in providing assistance to JSEB firms in the securing of the Subcontractors' insurance requirements stated herein. Company shall submit subcontractors' certificates of insurance to JEA

prior to allowing Subcontractors to perform Work on JEA's job sites.

1.1.5. MUTUAL INDEMNIFICATION

Company shall hold harmless, indemnify, and defend JEA against any claim, action, loss, damage, injury, liability, cost and expense of whatsoever kind or nature (including, but not by way of limitation, reasonable attorney's fees and court costs) arising out of injury (whether mental or corporeal) to persons, including death, or damage to property, to the extent caused by the negligence, recklessness or intentional wrongful misconduct of the Company and any person or entity used by Company in the performance of this Contract or Work performed thereunder. For purposes of this Indemnification, the term "JEA" shall mean JEA as a body politic and corporate and shall include its governing board, officers, employees, agents, successors and assigns. This indemnification shall survive the term of a Contract entered into pursuant to this solicitation, for events that occurred during the Contract term. This indemnification shall be separate and apart from, and in addition to, any other indemnification provisions set forth elsewhere in this Contract.

JEA shall likewise indemnify, hold harmless, and defend the Company against any claim, action, loss, damage, injury, liability, cost and expense of whatsoever kind or nature (including, but not by way of limitation, reasonable attorney's fees and court costs) arising out of injury (whether mental or corporeal) to persons, including death, or damage to property, to the extent caused by the negligence, recklessness or intentional wrongful misconduct of the JEA and any person or entity used by JEA while engaged in activities related to this Contract. Notwithstanding any other term or condition of this Contract, JEA's indemnification obligation shall be for tort claims only, subject to the provisions and limitations of returns Section 768.28, Florida Statutes.

In the event such damage or injury is caused by the joint or concurrent negligence of JEA and/or the Company, the loss or expense shall be borne by each party in proportion to its degree of negligence in accordance with Section 768.31 of the Florida Statutes, the Uniform Contribution Among Tortfeasors Act and subject to the Limitations of Liability defined within this section.

In the case of third party claims, either party will provide the other reasonable notice of any third party claims.

1.1.6. TERMINATION FOR CONVENIENCE

JEA shall have the absolute right to terminate the Contract, in whole or part, with or without cause, at any time upon thirty (30) calendar days prior written notification to Company of such termination.

Notwithstanding anything contained in the Contract or Agreement, in the event of termination for convenience, JEA will pay the Company for all work performed and expenses that the Company has incurred, or has become obligated, prior to receiving JEA's notice of termination.

Upon receipt of such notice of termination, the Company shall stop the performance of the Work except as may be necessary to carry out such termination and take any other action toward termination of the Work that JEA may reasonably request, including all reasonable efforts to provide for a prompt and efficient transition as directed by JEA.

JEA will have no liability to the Company for any cause whatsoever arising out of, or in connection

with, termination including, but not limited to, lost profits, lost opportunities, resulting change in business condition, except as expressly stated within these Contract Documents.

1.1.7. TERMINATION FOR DEFAULT (NO BOND)

JEA may terminate the Contract for default upon written notice to the Company if any of the following occurs (each, an “Event of Default”):

- The Company assigns or subcontracts the Work without JEA’s prior written consent;
- Any petition is filed or any proceeding is commenced by or against the Company for relief under any bankruptcy or insolvency laws;
- A receiver is appointed for the Company's properties or the Company commits any act of insolvency (however evidenced);
- The Company makes an assignment for the benefit of creditors;
- The Company suspends the operation of a substantial portion of its business;
- The Company suspends the whole or any part of the Work to the extent that it impacts the Company's ability to meet the schedule for the Work, or the Company abandons the whole or any part of the Work;
- The Company materially breaches or materially fails to comply with any of the conditions or provisions of the Contract Documents, and, if such breach or failure is capable of cure, Company does not cure the breach or failure within thirty (30) days after receipt of written notice from JEA;
- The Company attempts to willfully impose upon JEA items or workmanship that are, in JEA's sole opinion, defective or of unacceptable quality;
- The Company has been placed on the list maintained under Section 287.135, Florida Statutes, of companies with activities in Sudan or in Iran Petroleum Energy Sector;
- The Company is determined, in JEA's sole opinion, to have misrepresented the utilization of funds or misappropriated property belonging to JEA; or
- Any material adverse change in the financial or business condition of the Company.

If, after an Event of Default, it is determined that an Event of Default did not occur, or that the default was excusable, the rights and obligations of the parties shall be the same as if JEA had terminated the Contract for convenience.

This Section shall in no way limit JEA's right to all remedies for nonperformance provided under law or in equity. Further, the rights and remedies available to JEA are distinct, separate and cumulative remedies, and no one of them, whether or not exercised by a party, shall be deemed to be in exclusion of any other.

In the event of termination for nonperformance, the Company shall immediately surrender all Work records to JEA. In such a case, JEA may set off any money owed to the Company against any liabilities resulting from the Company's nonperformance.

1.1.8. ACTIONS AFTER TERMINATION

Immediately upon termination or expiration of this Contract, Company must return to JEA all materials, documents and things used by Company and belonging to JEA, including proposals, computer files, borrower files, building keys, and any other property or information regarding continued business compliance or goodwill, whether in electronic or hard-copy form.

Furthermore, upon JEA's request, Company shall certify in writing that all of the foregoing documents or materials, including archival or backup copies, whether in electronic or hard-copy form, have been returned to JEA, deleted from any computer system, or otherwise destroyed. Notwithstanding the foregoing, Company may retain copy(ies) of Confidential Information as required by applicable laws, regulations, or internal information retention policies, or as necessitated by operation of Company's automatic back-up system, provided that Company shall continue to be subject to the obligations of this Contract with respect to Confidential Information so retained.

1.2. PRELIMINARY MATTERS

1.2.1. INTENTIONALLY LEFT BLANK

1.3. CONFIDENTIALITY AND OWNERSHIP OF DOCUMENTATION

1.3.1. PROPRIETARY INFORMATION

The Company shall not copy, reproduce, or disclose to third parties, except in connection with the Work, any information that JEA furnishes to the Company. The Company shall insert in any subcontract a restriction on the use of all information furnished by JEA. The Company shall not use this information on another project. All information furnished by JEA will be returned to JEA upon completion of the Work.

1.3.2. PUBLICITY AND ADVERTISING

The Company shall not take any photographs, make any announcements or release any information concerning the Contract or the Work to any member of the public, press or official body unless

prior written consent is obtained from JEA.

2.4. RIGHT TO AUDIT

Company's records relating to the Services delivered under this Contract shall, upon reasonable notice to Company, be open to inspection and subject to audit during Company's normal business hours and at JEA's sole expense. Such audits may be performed by JEA's representatives or an outside representative engaged by JEA, provided such outside representative is not a competitor of Company and is covered by nondisclosure terms with JEA that are reasonably similar to those that bind JEA and Company in this Contract. JEA or its designee may conduct such audits or inspections no more often than once per year during the term of the Contract and for a period of three years after expiration or termination of the Contract.

Company's "records" as referred to in the Contract shall include only those documents that directly pertain to the Services delivered by Company under this Contract; and only to the extent necessary to adequately permit evaluation and verification of Company's compliance with the Contract requirements, and Company's compliance with provisions for invoices or claims submitted by Company or any of its payees under the Contract.

During any audit, JEA's authorized representative or designee shall have reasonable access to Company's facilities for the purposes of the audit, and shall be provided adequate and appropriate workspace, in order to conduct audits in compliance with this Section.

If an audit inspection or examination in accordance with this Section discloses that Company has over-billed JEA in excess percent (5%) of the total billings, then in addition to making adjustments for the overcharges, Company shall reimburse JEA for the reasonable actual cost of JEA's audit. Any adjustments and/or payments which must be made as a result of any such audit or inspection of CGI's invoices and/or records shall be made within a reasonable amount of time (not to exceed 90 days) from presentation of JEA's findings to Company.

If Company does not agree with JEA's audit findings, Company will notify JEA of its disagreement within 90 days of the presentation of the findings to Company, and the Parties will escalate the issue to a management representative of each Party for such representatives to determine a resolution to the issue.

2.5. JEA CRITICAL INFRASTRUCTURE PROTECTION (CIP)

Pursuant to federal regulations, JEA is required to implement Critical Infrastructure Protection (CIP) and comply with NERC/FERC reliability standards for identified assets (collectively the "Assets"). Assets can be defined as either physical or cyber that are essential for JEA to maintain the integrity of the bulk electric system. Therefore, a Company that requires access to the Assets shall require that each of its employees, who require unescorted access, apply for a JEA access badge through JEA's Security Department. Depending on which Assets a Company must access will determine the specific JEA training and/or criminal background check that will be required before an access badge can be issued. The Company will be responsible for all costs associated with any criminal background check and the employee labor required to complete the JEA provided training.

The language in the above paragraph shall also apply to Company's Subcontractors, and shall be included in Company's contracts with its Subcontractors for Work or Services to be performed at

JEA.

JEA reserves the right to modify these terms via a mutually agreeable amendment if the applicable regulations change or additional regulations become applicable. JEA will provide sufficient notice in advance for Company to adapt the updated regulations.

2.6. JEA CONFIDENTIAL INFORMATION PROTECTION

JEA is a publicly owned utility and all official information sharing is governed by the Florida Sunshine Laws. However, certain information that could impact safe and secure operations may be exempt which includes information classified as confidential and protected under federal regulatory standards. Confidential Information means any data or information that is propriety to the Parties and not generally known to the public, whether in tangible or intangible form, whenever or however disclosed, including but not limited to:

- Critical Infrastructure Information (CII) or Bulk Electric System Information (BCSI) or Security Sensitive Information (SSI) classified by JEA
- Protected Health Information in both physical and electronic form (PHI and ePHI)
- Personal Identifiable Information (PII)
- any protected, non-public information concerning the design or operation of present or future critical infrastructure;

- any information that could be used to compromise or expose the vulnerability of JEA's Cyber systems, processes, programs data, communications, energy and operations systems or structures;
- any Copyright application code, source code, technical design (not released for open use), trade secret, scientific or technical information, invention, design, process, procedure, formula, improvement, technology or method;
- any computer software, source code, object code, flow charts or databases; and
- any other information that should reasonably be recognized as sensitive or confidential information by the recipient or the disclosing party.

All Company employees, and subcontractors, whose scope of work requires access, logical or physical, that may expose them to Confidential Information may be required to complete a Non-Disclosure Agreement, criminal background check, and periodic reoccurring security training. The Company shall have performed and bear all costs associated with the background check. Details of the background checks shall remain confidential to Company but the outcome of checks will be provided to JEA. JEA will be responsible for the identification of all requirements and providing the required security training.

2.7.LABOR

2.7.1. NONDISCRIMINATION

Company represents that it has adopted and will maintain throughout the term of the Contract a policy of nondiscrimination or harassment against any person with regard to race, color, sex (including pregnancy), sexual orientation, gender identity or expression, religion, political affiliation, national origin, disability, age, marital status, veteran status, or any other impermissible factor in recruitment, hiring, compensation, training, placement, promotion, discipline, demotion, transfers, layoff, recall, termination, working conditions and related terms and conditions of employment. Company agrees that, on written request, it will permit reasonable access to its records of employment, employment advertisement, application forms and other pertinent data and records, by JEA for the purpose of investigation to ascertain compliance with the non-discrimination provisions of the Contract; *provided however*, that Company shall not be required to produce, for inspection, records covering periods of time more than one (1) year prior to the effective date of the Contract. Company agrees that, if any of the products or Services to be provided pursuant to the Contract are to be provided by a subcontractor, the provisions of this Section shall be incorporated into and become a part of the subcontract.

Additionally, the Company shall comply with the following executive orders, acts, and all rules and regulations implementing said orders or acts, which are by this reference incorporated herein as if set out in their entirety:

- The provisions of Presidential Order 11246, as amended, and the portions of Executive Orders 11701 and 11758 as applicable to Equal Employment Opportunity;
- The provisions of section 503 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA); and
- The provisions of the Employment and Training of Veterans Act, 38 U.S.C. 4212 (formerly 2012).

The Company agrees that if any of the Work of this Contract will be performed by a Subcontractor, then the provisions of this subsection shall be incorporated into and become a part of the subcontract.

2.7.2. LEGAL WORKFORCE

JEA shall consider the Company's employment of unauthorized aliens a violation of section 274A(e) of the Immigration and Nationalization Act. Such violation shall be cause for termination of the Contract for default upon thirty (30) days' prior written notice of such termination notwithstanding any other provisions to the contrary in the Contract Documents.

2.7.3. PROHIBITED FUTURE EMPLOYMENT

It shall be unlawful and a class C offense for any person, who was an officer or employee of JEA, after his or her employment has ceased, to be employed by or enter into any contract for personal services, with a person or company who contracted with, or had a contractual relationship with JEA, while the contract is active or being completed, or within two years of the cessation, completion, or termination of the person's or company's contractual relationship with JEA, where (1) the contract with JEA had a value that exceeded \$250,000, and (2) the officer or employee had a substantial and decision-making role in securing or negotiating the contract or contractual relationship, or in the approval of financial submissions or draws in accordance with the terms of the contract; except that this prohibition shall not apply to an employee whose role is merely as a review signatory, or to contracts entered into prior to January 1, 2008, or to contracts that have been competitively procured. With respect to this subsection a contract is competitively procured if it has been obtained through a sealed low bid award. A "substantial and decision-making role" shall include duties and/or responsibilities that are collectively associated with: (i) approving solicitation or payment documents; (ii) evaluating formal bids and Responses; and (iii) approving and/or issuing award recommendations for JEA Awards Committee approval. The contract of any person or business entity that hires or contracts for services with any officer or employee prohibited from entering into said relationship shall be voidable at the pleasure of JEA. This prohibition shall not apply to any former officer or employee after two (2) years from cessation from JEA employment.

2.7.4. HIRING OF OTHER PARTY'S EMPLOYEES

Each party recognizes that the other party has incurred or will incur significant expenses in training its own employees and agrees that it will not pursue or hire, without the other party's consent, the other party's employees or the employees of its subsidiaries for a period of two (2) years from the termination date of this Contract.

2.7.5. FORCE MAJEURE

No party shall be liable for any default or delay in the performance of its obligations under this Contract due to an act of God or other event to the extent that: (a) the non-performing party is without fault in causing such default or delay; (b) such default or delay could not have been prevented by reasonable precautions; and (c) such default or delay could not have been reasonably circumvented by the non-performing party through the use of alternate sources, work-around plans or other means. Such causes include, but are not limited to: act of civil or military authority (including but not limited to courts or administrative agencies); acts of God; war; terrorist attacks; riot; insurrection; inability of JEA to secure approval, validation or sale of bonds; inability of JEA or the Company to obtain any required permits, licenses or zoning; blockades; embargoes;

sabotage; epidemics; fires; hurricanes, tornados, floods; or strikes.

In the event of any delay resulting from such causes, the time for performance of each of the parties hereunder (including the payment of monies if such event actually prevents payment) shall be extended for a period of time reasonably necessary to overcome the effect of such delay, except as provided for elsewhere in the Contract Documents.

In the event of any delay or nonperformance resulting from such causes, the party affected shall promptly notify the other in writing of the nature, cause, date of commencement and the anticipated impact of such delay or nonperformance. Such written notice, including Change Orders, shall indicate the extent, if any, to which it is anticipated that any delivery or completion dates will be thereby affected within seven (7) calendar days.

2.8. MISCELLANEOUS PROVISIONS

2.8.1. AMBIGUOUS CONTRACT PROVISIONS

The parties agree that the Contract has been the subject of meaningful analysis and/or discussions of the specifications, terms and conditions contained in this Contract. Therefore, doubtful or ambiguous provisions, if any, contained in this Contract will not be construed against the party who physically prepared this Contract.

2.8.2. AMENDMENTS

The Contract may not be altered or amended except in writing, signed by JEA Procurement and the Company Representative, or each of their duly authorized representatives.

2.8.3. APPLICABLE STATE LAW; VENUE; SEVERABILITY

The rights, obligations and remedies of the parties as specified under the Contract will be interpreted and governed in all respects exclusively by the laws of the State of Florida without giving effect to the principles of conflicts of laws thereof. Should any provision of the Contract be determined by the courts to be illegal or in conflict with any law of the State of Florida, the validity of the remaining provisions will not be impaired. Litigation involving this Contract or any provision thereof shall take place in the State or Federal Courts located exclusively in Jacksonville, Duval County, Florida.

2.8.4. CUMULATIVE REMEDIES

Except as otherwise expressly provided in this Contract, all remedies provided for in this Contract shall be cumulative and in addition to and not in lieu of any other remedies available to either party at law, in equity or otherwise.

2.8.5. DISPUTES

For any and all disputes, controversies or claims between the parties to this Contract (collectively "Disputes"), the parties will negotiate in good faith in an attempt to resolve such Disputes, and the parties may agree to mediate the Disputes pursuant to Chapter 44, Florida Statutes. Upon failure of such negotiations or mediation, either of which may be terminated by either party upon written notice, the parties shall have all rights available at law or in equity.

2.8.6. ENTIRE AGREEMENT

This Contract constitutes the entire agreement between the parties. No statement, representation, writing, understanding, or agreement made by either party, or any representative of either party,

which are not expressed herein shall be binding. All changes to, additions to, modifications of, or amendment to this Contract, or any of the terms, provisions and conditions hereof, shall be binding only when in writing and signed by the authorized officer, agent or representative of each of the parties hereto.

2.8.7. EXPANDED DEFINITIONS

Unless otherwise specified, words importing the singular include the plural and vice versa and words importing gender include all genders. The term "including" means "including without limitation", and the terms "include", "includes" and "included" have similar meanings. Any reference in this Contract to any other agreement is deemed to include a reference to that other agreement, as amended, supplemented or restated from time to time. Any reference in the Contract to "all applicable laws, rules and regulations" means all federal, state and local laws, rules, regulations, ordinances, statutes, codes and practices.

2.8.8. HEADINGS

Headings appearing herein are inserted for convenience or reference only and shall in no way be construed to be interpretations of text.

2.8.9. LANGUAGE AND MEASUREMENTS

All communication between the Company and JEA, including all documents, notes on drawings, and submissions required under the Contract, will be in the English language. Unless otherwise specified in the Contract, the US System of Measurements shall be used for quantity measurement. All instrumentation and equipment will be calibrated in US System of Measures.

2.8.10. MERGER

During the term of this Contract and any extension thereof, any invoice that may be issued by the Company to JEA shall be issued in accordance with and subject solely to the terms and conditions contained herein, notwithstanding any language to the contrary contained in such invoices. Any invoice issued during the Term and any extension thereof shall not modify or amend this Contract, unless such invoice is intended to modify or amend this Contract and does so in accordance with the terms of this Contract.

2.8.11. INDEPENDENT CONTRACTOR

Company is performing this Contract as an independent contractor and nothing in this Contract will be deemed to constitute a partnership, joint venture, agency, or fiduciary relationship between JEA and Company. Neither Company nor JEA will be or become liable or bound by any representation, act, or omission of the other.

2.8.12. MEETINGS AND PUBLIC HEARINGS

The Company will, upon request by JEA, attend all meetings and public hearings as required, in any capacity, as directed by JEA.

2.8.13. NEGOTIATED CONTRACT

Except as otherwise expressly provided, all provisions of this Contract shall be binding upon and shall inure to the benefit of the parties, their legal representatives, successors and assigns.

2.8.14. NONWAIVER

Failure by either party to insist upon strict performance of any of the provisions of the Contract will not release either party from any of its obligations under the Contract.

2.8.15. INTENTIONALLY LEFT BLANK

2.8.16. REFERENCES

Unless otherwise specified, each reference to a statute, ordinance, law, policy, procedure, process, document, drawing, or other informational material is deemed to be a reference to that item, as amended or supplemented from time to time. All referenced items shall have the enforcement ability as if they are fully incorporated herein.

2.8.17. SEVERABILITY

In the event that any provision of this Contract is found to be unenforceable under applicable law, the parties agree to replace such provision with a substitute provision that most nearly reflects the original intentions of the parties and is enforceable under applicable law, and the remainder of this Contract shall continue in full force and effect.

With regard to any provision in this agreement pertaining to damages, equitable or otherwise, it is the intent of the Parties that under no circumstances shall there be recovery for home office overhead. Any damages claimed shall be proven by discreet accounting of direct project costs and no theoretical formula or industry estimating reference manuals shall be permissible.

2.8.18. SUBCONTRACTING OR ASSIGNING OF CONTRACT

Each party agrees that it shall not subcontract, assign, delegate, or otherwise dispose of the Contract, the duties to be performed under the Contract, or the monies to become due under the Contract without the other party's prior written consent.

The assignment of the Contract will not relieve either of the parties of any of its obligations until such obligations have been assumed in writing by the assignee. If the Contract is assigned by either of the parties, it will be binding upon and will inure to the benefit of the permitted assignee.

In the event the Company obtains JEA approval to use Subcontractors, the Company is obligated to provide Subcontractors possessing the skills, certifications, registrations, licenses, training, tools, demeanor, motivation and attitude to successfully perform the work for which they are subcontracted. The Company is obligated to remove Subcontractors from performing Work under this Contract when the Company recognizes that a Subcontractor is failing to work in a manner consistent with the requirements of this Contract, or when JEA notifies the Company that JEA has determined a Subcontractor is failing to work in a manner consistent with the requirements of this Contract.

2.8.19. SURVIVAL

The obligations of JEA and the Company under this Contract that are not, by the express terms of this Contract, to be performed fully during the Term, shall survive the termination of this Contract.

2.8.20. TIME AND DATE

Unless otherwise specified, references to time of day or date mean the local time or date in Jacksonville, FL. If under this Contract any payment or calculation is to be made, or any other action is to be taken, on or as of a day that is not a regular business day for JEA, that payment or calculation is to be made, and that other action is to be taken, as applicable, on or as of the next day that is a regular business day. Where reference is made to day or days, it means calendar days. Where reference is made to workday, workdays, business day, or business days, it means regular working days for JEA Procurement.

2.8.21. INTENTIONALLY LEFT BLANK

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2.8.22. WAIVER OF CLAIMS

A delay or omission by JEA hereto to exercise any right or power under this Contract shall not be construed to be a waiver thereof. A waiver by JEA under this Contract shall not be effective unless it is in writing and signed by the party granting the waiver. A waiver by a party of a right under or breach of, this Contract shall not be construed to operate as a waiver of any other or successive rights under, or breaches of, this Contract.

None of the following will constitute a waiver of any of JEA's rights under the Contract: approval of payments, including final payment; Certificate of Contract Completion; any use of the Work by JEA (subject to the acceptance process in the applicable statement of work) ; nor any correction of faulty or defective work by JEA.

	<h1>INVOICE</h1>	Invoice	US002188875
		Invoice date	July 15, 2025
		Payment due date	August 14, 2025
		Page	1 of 1

Jacksonville Electric Authority
 Attention: Accounts Payable
 225 North Pearl Street
 Jacksonville FL 32202
 United States

Customer number: USA0001185
 Project: 30000000095759
 Payment Term: Net 30 Days
 CGI Contact: vinod.kumar.c.y@cgi.com
 Contract: JEA11681
 PO Num.: 219453

Ship To Address: Jacksonville Electric Authority 225 North Pearl Street Jacksonville FL 32202 United States

Description: JEA OG travel
 For billing inquiries please contact:
 client.services.crp@cgi.com / 514 841-3484 / 1 866 624-9056

Amount due: 27,547.34 USD

Description	MM-DD-YYYY	Quantity	UOM	Rate	VAT/TAX	Amount
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Invoicing period From 07-08-2025 To 08-10-2025

JEA OG travel and living				0%		27,547.34
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Total amount: **27,547.34**

NON TAXABLE 0% 0.00

Total tax/VAT: 0.00

Amount due: **27,547.34 USD**

Attn: edgacl@jea.com

Bank Address: PNC Bank, N.A., 800 17th St. NW 3rd Floor, Washington, DC 20006
 Check Payments: CGI Technologies and Solutions Inc, PO Box 779198, Chicago, IL 60677-9198
 Document classification: Confidential

CGI TECHNOLOGIES AND SOLUTIONS INC.
 11325 Random Hills Road
 Fairfax (VA) 22030
 United States
 Tel: +1 7032678000

Company ID 54-0856778

ACCOUNT: 8026527114
 ACH PAYMENT ABA: 031207607
 DOMESTIC WIRES ABA: 043000096
 Swift ID/BIC: PNCCUS33

	<h1>INVOICE</h1>	Invoice	US002190591
		Invoice date	August 06, 2025
		Payment due date	September 05, 2025
		Page	1 of 1

Jacksonville Electric Authority
 Attention: Accounts Payable
 225 North Pearl Street
 Jacksonville FL 32202
 United States

Customer number: USA0001185
 Project: 30000000095759
 Payment Term: Net 30 Days
 CGI Contact: vinod.kumar.c.y@cgi.com
 Contract: JEA11681
 PO Num.: 219453

Ship To Address: Jacksonville Electric Authority 225 North Pearl Street Jacksonville FL 32202 United States

Description: JEA OG travel
 For billing inquiries please contact:
 client.services.crp@cgi.com / 514 841-3484 / 1 866 624-9056

Amount due: 11,746.76 USD

Description	MM-DD-YYYY	Quantity	UOM	Rate	VAT/TAX	Amount
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Invoicing period From 07-24-2025 To 08-24-2025

JEA -Travel and Living				0%		11,746.76
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Total amount:	11,746.76
NON TAXABLE 0%	0.00
Total tax/VAT:	0.00
Amount due:	11,746.76 USD

Bank Address: PNC Bank, N.A., 800 17th St. NW 3rd Floor, Washington, DC 20006
 Check Payments: CGI Technologies and Solutions Inc, PO Box 779198, Chicago, IL 60677-9198
 Document classification: Confidential

CGI TECHNOLOGIES AND SOLUTIONS INC.
 11325 Random Hills Road
 Fairfax (VA) 22030
 United States
 Tel: +1 7032678000

Company ID 54-0856778

ACCOUNT: 8026527114
 ACH PAYMENT ABA: 031207607
 DOMESTIC WIRES ABA: 043000096
 Swift ID/BIC: PNCCUS33

	<h1>INVOICE</h1>	Invoice	US002191616
		Invoice date	August 14, 2025
		Payment due date	September 13, 2025
		Page	1 of 1

Jacksonville Electric Authority
 Attention: Accounts Payable
 225 North Pearl Street
 Jacksonville FL 32202
 United States

Customer number: USA0001185
 Project: 30000000095759
 Payment Term: Net 30 Days
 CGI Contact: vinod.kumar.c.y@cgi.com
 Contract: JEA11681
 PO Num.: 219453

Ship To Address: Jacksonville Electric Authority 225 North Pearl Street Jacksonville FL 32202 United States

Description: JEA OG travel
 For billing inquiries please contact:
 client.services.crp@cgi.com / 514 841-3484 / 1 866 624-9056

Amount due: 18,406.79 USD

Description	MM-DD-YYYY	Quantity	UOM	Rate	VAT/TAX	Amount
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Invoicing period From 08-14-2025 To 09-14-2025

JEA -Travel and Living - SAT7				0%		18,406.79
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Total amount: **18,406.79**

NON TAXABLE 0% 0.00

Total tax/VAT: 0.00

Amount due: **18,406.79 USD**

Attention: Edgar, Cynthia <edgacl@jea.com>

Bank Address: PNC Bank, N.A., 800 17th St. NW 3rd Floor, Washington, DC 20006
 Check Payments: CGI Technologies and Solutions Inc, PO Box 779198, Chicago, IL 60677-9198
 Document classification: Confidential

CGI TECHNOLOGIES AND SOLUTIONS INC.
 11325 Random Hills Road
 Fairfax (VA) 22030
 United States
 Tel: +1 7032678000

Company ID 54-0856778

ACCOUNT: 8026527114
 ACH PAYMENT ABA: 031207607
 DOMESTIC WIRES ABA: 043000096
 Swift ID/BIC: PNCCUS33

Award #4 Supporting Documents 8/21/2025

Appendix B - Bid Form
1411985846 RFP TRALC Class Transformers for JEA Inventory FY25 – FY27

Submit the Bid electronically as described the Solicitation.

Company Name: WESCO

Company's Address: 5971 PERSHING AVE ORLANDO FL 32805

License Number: _____

Phone Number: 352-408-3898 FAX No: _____ Email Address: renee.lackey@anixter.com

<u>BID SECURITY REQUIREMENTS</u> <input checked="" type="checkbox"/> None required <input type="checkbox"/> Certified Check or Bond (Five Percent (5%))	<u>TERM OF CONTRACT</u> <input type="checkbox"/> One Time Purchase <input checked="" type="checkbox"/> Annual Requirements <input type="checkbox"/> Other, Specify - Project Completion
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<u>SAMPLE REQUIREMENTS</u> <input type="checkbox"/> None required <input type="checkbox"/> Samples required prior to Bid Opening <input checked="" type="checkbox"/> Drawings may be required subsequent to Bid Opening	<u>SECTION 255.05, FLORIDA STATUTES CONTRACT BOND</u> <input checked="" type="checkbox"/> None required <input type="checkbox"/> Bond required 100% of Bid Award
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<u>QUANTITIES</u> <input type="checkbox"/> Quantities indicated are exacting <input checked="" type="checkbox"/> Quantities indicated reflect the approximate quantities to be purchased Throughout the Contract period and are subject to fluctuation in accordance with actual requirements.	<u>INSURANCE REQUIREMENTS</u> Insurance may be required.
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<u>PAYMENT DISCOUNTS</u> <input type="checkbox"/> 1% 20, net 30 <input type="checkbox"/> 2% 10, net 30 <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> None Offered	
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ENTER YOUR BID FOR SOLICITATION 1411985846	TOTAL BID PRICE
Total Bid Price (enter total of four (4) items from Response Workbook)	\$ 2,276,061.00

I have read and understood the Sunshine Law/Public Records clauses contained within this solicitation. I understand that in the absence of a redacted copy my proposal will be disclosed to the public "as-is".

BIDDER CERTIFICATION

By submitting this Bid, the Bidder certifies that it has read and reviewed all of the documents pertaining to this Solicitation, that the person signing below is an authorized representative of the Bidding Company, that the Company is legally authorized to do business in the State of Florida, and that the Company maintains in active status an appropriate contractor's license for the work (if applicable). The Bidder also certifies that it complies with all sections (including but not limited to Conflict of Interest and Ethics) of this Solicitation.

We have received addenda _____
1 through 4


Handwritten Signature of Authorized Officer of Company or Agent

6/16/25
Date

Renee Lackey Account Manager
Printed Name and Title

Award #4 Supporting Documents 8/21/2025

Appendix B – Minimum Qualifications Form
1411985846 (RFP) TRALC Class Transformers for JEA Inventory FY25 – FY27

THE RESPONDENT MUST COMPLETE THE BIDDER INFORMATION SECTION BELOW. IN ORDER TO BE CONSIDERED A QUALIFIED RESPONDENT BY JEA YOU MUST MEET THE MINIMUM QUALIFICATIONS LISTED BELOW AND MEET ALL THE TECHNICAL SPECIFICATIONS LISTED IN THIS SOLICITATION.

BIDDER INFORMATION

COMPANY NAME: WESCO

BUSINESS ADDRESS: 5971 PERSHING AVE

CITY, STATE, ZIP CODE: ORLANDO FL 32805

TELEPHONE: 352-408-3898

FAX: _____

E-MAIL: RENEE.LACKEY@ANIXTER.COM

PRINT NAME OF AUTHORIZED REPRESENTATIVE: RENEE LACKEY

SIGNATURE OF AUTHORIZED REPRESENTATIVE: 

NAME AND TITLE OF AUTHORIZED REPRESENTATIVE: RENEE LACKEY ACCOUNT MANAGER

Respondent must meet the following Minimum Qualifications to be considered eligible to have its Response evaluated by JEA. Respondent must complete and submit the Minimum Qualification Form provided in this Solicitation. Respondents that are working or have worked for JEA in the past 2 years involving similar work must submit JEA as a reference. JEA reserves the right to ask for additional back up documentation or additional reference projects to confirm the Respondent meets the requirements stated above.

JEA may reject Responses from Respondents not meeting all of the following Minimum Qualifications:

- I. The Respondent must be the approved manufacturer or authorized distributor of the items listed in the Appendix B Response Workbook. Approved manufacturers for JEA are found in the Appendix B Response Workbook.
- II. The Respondent must be able to meet all the specifications listed in Appendix A – Technical Specifications of this Solicitation. Respondent will annotate any proposed changes to the Technical Specifications and must have those changes approved by JEA before submitting bid.
- III. The Respondent must provide a lead-time as part of the information entered into Appendix B – Response Workbook.
- IV. The Respondent is not on the State of Florida Convicted Vendor List, State of Florida’s Suspended Vendor List, The City of Jacksonville’s Disqualified Vendor List, have not had their bidding privileges actively suspended by JEA, been debarred by JEA, or have had a contract with JEA terminated for default within the last two (2) years.



VENDOR CONFLICT OF INTEREST DISCLOSURE FORM INSTRUCTIONS

Vendors shall not try to gain an unfair competitive advantage or influence the ability of JEA officers and employees to make impartial and objective decisions on behalf of JEA.

All vendors interested in conducting business with JEA must complete and return the Vendor Conflict of Interest Disclosure Form found on the following page in order to be eligible to be awarded a contract with JEA. Please note that all vendors are subject to comply with JEA's conflict of interest policies provided below.

1. No JEA officer (e.g., JEA Board member and elected City official) or employee has an ownership interest of more than 5% in vendor's company.
2. No JEA officer or employee is an officer, director, partner or proprietor of vendor's company.
3. No JEA officer or employee is employed by or being considered for employment by vendor's company.
4. No JEA officer or employee work as a consultant or has a contractual relationship with vendor's company.
5. No JEA officer or employee will derive a personal financial gain or loss from this contract.
6. No relative of a JEA officer of employee will derive a personal financial gain or loss from this contract. (Relatives include a father, mother, son, daughter, husband, wife, brother, sister, father-in-law, mother-in-law, son-in-law, or daughter-in-law.)

If a vendor has one or more relationships with a JEA officer or employee or a relative of a JEA officer or employee that meets the criteria described above, then the vendor shall disclose the information by completing the Conflict of Interest Form on the following page.



CONFLICT OF INTEREST DISCLOSURE FORM

*Disclosing a potential conflict of interest does not disqualify vendors. In the event vendors do not disclose potential conflicts of interest, and they are detected by JEA, vendor may be **disqualified** from doing business with JEA. Questions about this form? Contact (JEA, fill in the blank)*

JEA Bid/Solicitation/Contract Number: •1411985846	Name of JEA Employee(s) Working on Vendor's Current Contract(s) with JEA:	
Vendor Name: WESCO	Vendor Phone: 352-408-3898	
Vendor's Authorized Representative Name and Title: RENEE LACKEY ACCOUNT MANAGER	Authorized Representative's Phone: 352-408-3898	
NAME(S) OF JEA EMPLOYEE(S) / PUBLIC OFFICER(S) WITH POTENTIAL CONFLICT OF INTEREST		
Name of JEA public officer(s), employee(s), or relatives with whom there may be a potential conflict of interest. If more than five, attach a second form.	Relationship of JEA public officer(s)/employee(s) and/or relative(s) to vendor's company from list above (e.g. 1(a), 2, etc.). Please list all that apply:	
1.		
2.		
3.		
4.		
5.		
<input checked="" type="checkbox"/> Vendor has no conflict of interest to report. <input checked="" type="checkbox"/> Vendor hereby declares it has not and will not provide gifts or hospitality of any dollar value or any other gratuities to any JEA officer or employee to obtain or maintain a contract. <input checked="" type="checkbox"/> I certify that this Conflict of Interest Disclosure has been examined by me and that its contents are true and correct to my knowledge and belief and I have the authority to so certify on behalf of the Vendor.		
Vendor's Authorized Representative Signature: 	Date: 6/16/25	

FOR JEA USE ONLY IF CONFLICT NOTED
This form has been reviewed by:

Name of JEA Ethics Officer:	Signature:	Date:
Note:		

Award #4 Supporting Documents 8/21/2025

Appendix B - Bid Workbook for One-Time Inventory Purchases
1411985846 TRALC Class Transformers for JEA Inventory FY25 – FY27

Submit the Bid electronically as described in the Solicitation.

Company Name: WESCO
Company's Address 5971 PERSHING AVE
License Number (if applicable) _____
Phone Number 352-408-3898 EMAIL Address: RENEE.LACKEY@ANIXTER.COM

Please quote prices for items described in specific unit of measure and furnish information requested. Freight to be included in the unit cost, FOB destination unless otherwise specified by Respondent. Please notate Manufacturer and Manufacturer Part Number (where applicable) in Quote. Lead time is defined as the number of weeks from receipt of order to delivery of material on site. JEA accepts electronic invoices from Vendors offering discounted early payment terms.

This is not a Purchase Order. Form must be signed, or quote may be rejected. By submitting this form, Respondent is affirming that they comply with all JEA and City of Jacksonville ordinances, policies and procedures regarding ethics and they have not been convicted of a public entity crime as listed on the Convicted Vendor list maintained by the Florida Department of Management Services.

Basis of Award – Highest Evaluated

JEA will Award a Contract to the responsive and responsible Respondent whose Response meets or exceeds the Minimum Qualifications set forth in this Solicitation, and whose Response receives the highest number of points based on JEA's evaluation of the Selection Criteria stated in this RFP. The following criteria will be used by JEA to evaluate and rank Responses from Respondents who meet the Minimum Qualifications specified in this Solicitation.

Quotation of Rates - Maximum Score: 50 Points

Respondent shall provide a firm-fixed price quote for all Work in this Solicitation by completing the Response Workbook included in Appendix B. The prices quoted must include all profit, delivery, taxes, benefits, travel, and all other overhead items. The prices quoted by Respondent on the Response Workbook must be firm-fixed prices, not estimates. The low bid will receive the maximum 50 points and the amount of that bid will be the basis for awarding points to all other bids based on the following formula:

Other bidders' points = 50 * (Low Bidder/Bidder).

For Example: Bid #1 = \$100, Bid #2 = \$125. Bid #1 is low bid and will receive 50 points. Bid #2 will receive 40 points (50 x (100/125)).

Lead Time - Maximum Score: 50 Points

Respondent will provide lead times in the Response Workbook. The following scores will be assigned based on lead times provided in weeks:

- 0-30 weeks – 50 points
- 31-52 weeks – 40 points
- 53-78 weeks – 30 points
- >78 weeks – 20 points

Award #4 Supporting Documents 8/21/2025

Appendix B - Bid Workbook for One-Time Inventory Purchases
 1411985846 TRALC Class Transformers for JEA Inventory FY25 – FY27

Line 1 Description	Approved Manufacturers	Location	Qty	U/M	Unit Price	Ext Price	Country of Origin	Lead Time After Receipt of Order
TRALC002 TRANSFORMER, 1500/2250 KVA, 13200 DELTA VOLT PRIMARY 480Y/277 VOLT SECONDARY CAST COI, - DEL TO BE SCH 72 HOURS IN ADVANCE OF ARRIVAL, SUITABLE FOR FORKLIFT UNLOADING DELIVER TO 2325 EMERSON ST 32207.	___ Federal Pacific ___ MGM Transformer <u>X</u> ABB ___ Square D	JEA, SSC Storeroom	3	EA	254,255.00	762,765.00	USA Bland VA	72 weeks
TRALC003 TRANSFORMER, DRY TYPE SUBMERSABLE, 1000KVA, 13200 DELTA VOLT PRIMARY 480Y/277 VOLT SECONDARY, HIGH SIDE EATON SWITCH, (DEL TO BE SCH 72 HOURS IN ADVANCE OF ARRIVAL, SUITABLE FOR FORKLIFT UNLOADING, DELIVER TO 2325 EMERSON ST 32207)	<u>X</u> ABB	JEA, SCC Storeroom	1	EA	463,829.00	463,829.00	USA Bland VA	72 weeks
TRALC004 TRANSFORMER, DRY TYPE SUBMERSABLE, 1500KVA, 13200 DELTA VOLT PRIMARY 480Y/277 VOLT SECONDARY, HIGH SIDE EATON SWITCH, (DEL TO BE SCH 72 HOURS IN ADVANCE OF ARRIVAL, SUITABLE FOR FORKLIFT UNLOADING, DELIVER TO 2325 EMERSON ST 32207)	<u>X</u> ABB	JEA, SSC Storeroom	1	EA	513,510.00	513,510.00	USA Bland VA	72 weeks

Award #4 Supporting Documents 8/21/2025

Appendix B - Bid Workbook for One-Time Inventory Purchases
1411985846 TRALC Class Transformers for JEA Inventory FY25 – FY27

TRALC005 TRANSFORMER, DRY TYPE SUBMERSABLE, 2000KVA, 13200 DELTA VOLT PRIMARY 480Y/277 VOLT SECONDARY, HIGHSIDE EATON SWITCH, (DEL TO BE SCH 72 HOURS IN ADVANCE OF ARRIVAL, SUITABLE FOR FORKLIFT UNLOADING, DELIVER TO 2325 EMERSON ST 32207)	X ABB	JEA, SSC Storeroom	1	EA	535,957.00	535,957.00	USA Bland VA	72 weeks
--- See Technical Specifications				Vendor Comments:				

I have read and understood the Sunshine Law/Public Records clauses contained within this solicitation. I understand that in the absence of a redacted copy my proposal will be disclosed to the public “as-is”.

Respondent’s Certification

By submitting this Response, the Respondent certifies that it has read and reviewed all of the documents pertaining to this Solicitation, that the person signing below is an authorized representative of the Respondent’s Company, and that the Company is legally authorized to do business in the State of Florida. The Respondent also certifies that it complies with all sections (including but not limited to Conflict Of Interest and Ethics) of this Solicitation, and that the Respondent is an authorized distributor or manufacturer of the equipment as required in this Solicitation.

We have received addenda

1 through 4



Handwritten Signature of Authorized Officer of Company or Agent

6/16/25

Date

Renee Lackey

Printed Name and Title



PROPOSAL FOR
JEA College Street
Owners Advisory Services

SUBMITTED TO
JEA

August 18, 2025



August 18, 2025

Mr. Darrell Hamilton
Manager, Transmission & Substation Projects
JEA
225 North Pearl Street
Jacksonville, FL 32202

Dear Mr. Hamilton,

On behalf of Burns & McDonnell, thank you for this opportunity to extend our Owners Advisory services for the College Street 13.2kV Switchgear Project (The "Project").

JEA has engaged Burns & McDonnell to perform an independent design and constructability review of the Project's 30% design package, which has been submitted to JEA for technical review by Leidos, the Engineer of Record (EOR). This proposal is for Owner Advisory services for the College Street Switchgear.

The services identified within this proposal will be executed under the Project Management Contract (JEA12038), under the current approved rate sheet.

Sincerely,



Andrew Harper, PE
Regional Global Practice Manager
Transmission & Distribution Services
aharper@burnsmcd.com



Randy Koncelik, PMP
JEA Account Manager
Transmission & Distribution Services
rjkoncelik@burnsmcd.com

Cc: Wilbert Aldajuste, JEA Electric Systems Engineer

4.0 Project Description

JEA has requested Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell) to provide Owners Advisory services for the College St. 13.2kV Switchgear Replacement Project. The Project's Engineer of Record ("EOR") has submitted a 30% design package for JEA's technical review. As Owner's Advisors, Burns & McDonnell will perform an independent design and constructability review of the Project's 30% design submittal by the EOR (Leidos). The scope of Owner's Advisory services is further outlined in Section 2.0 of this proposal (below).

The College St. Substation 13.2kV Switchgear Replacement Project will replace the existing East and West switchgears at College Street substation, which cannot both be taken out of service concurrently. The switchgear equipment has been identified as reaching end of life and is viewed as a safety risk. The proposed design submitted in the 30% design checkpoint uses the existing 1940's and 1960's buildings to house the new switchgear installations.

2.0 Owners Advisory Services Scope of Services

The Owners Advisory services will include technical reviews of the design and constructability for the EOR's 30% design package, with the following disciplines considered:

- Substation Technical Review

The technical review of the substation and new switchgear electrical design will consider the following:

- Electrical and working clearances
- Code and Industry guidelines adherence (NEC, NESC, IEEE, etc.)
- Equipment and bus design and ratings

- Building(s) Technical Review

The technical review of the existing East and West switchgear buildings will consider the following:

- Existing fire alarm system and code requirements
- Review of hazardous material testing report and proposed mitigation strategies Existing ventilation and code requirements
- Life safety review against code requirements for egress

- Project Constructability Review

The constructability review of the 30% design package will consider the following:

- Switchgear installation in existing buildings
- Bus indoor/outdoor transitions and indoor bus installation
- Accessibility for new switchgear installations and existing switchgear removals
- Outage sequence plan

3.0 Project Approach and Deliverables

Burns & McDonnell will provide an interdisciplinary review of the 30% design package identified in Section 2.0 above. The team will include the following disciplines:

- Substation Electrical Engineer
- Fire Protection Representative
- Environmental Representative
- Mechanical Engineering Representative
- Architectural Representative
- Construction Management

The purpose of this review is to provide observations and comments to JEA on the EOR's 30% design submittal. Review of commercial terms & conditions are excluded from Burns & McDonnell's services. The comments will be provided in a review matrix table, in a similar format to the review comments provided under the previous Conductor and Structure

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assessment efforts. Following the review, JEA will work directly with the EOR firm in finalizing the detailed design. BMcD has included hours to provide Owner Advisory Services through September 31st, 2025, as requested by JEA.

4.0 Project Receivables

Burns & McDonnell will require the following receivables to begin work reviewing

1. Latest Revisions of Substation (Physical and P&C) design and engineering drawings and supporting documentation.
2. Latest Revisions of Building Architectural and Structural design and engineering drawings and supporting documentation.
3. The Engineer of Record's (EOR) Complete 30% design drawings and supporting documentation
4. Any previously conducted structural and environmental assessments for both buildings on site.

5.0 Project Estimate – Owner Advisory Services

The estimated cost for Owner's Advisory for the Scope of Work listed in Sections 2.0 and 3.0 (above) is illustrated in the table below.

College Street – Owners Advisory Support	FEE
Substation Design Review	\$21,000.00
Existing Building Review	\$46,500.00
Construction Plan/Sequence Review	\$17,500.00
Environmental Review	\$10,500.00
Project Management	\$12,000.00
TOTAL FEE: \$107,500.00	

6.0 Assumptions, Clarifications and Exceptions

1. This proposal outlines the scope of the work Burns & McDonnell (BMcD) will undertake in support of this project in its entirety. Any alterations, additions or deletions to the scope of the work would be executed with a mutually agreeable change order.
2. BMcD is directed to rely upon information provide by or through JEA, without independent verification.
3. BMcD assumes any required development or review of calculations will be performed by Others.
4. BMcD assumes review of Contractual documents, Terms & Conditions, and any other commercial agreement information between JEA and EOR firm is not included in BMcD's review.
5. BMcD assumes the proposed Owners Advisory reviews will be exclusive to the Engineer of Record's (EOR) College Street 30% design package
6. BMcD assumes an assessment of the building conditions will be performed by others.
7. When BMcD services requires BMcD to view or observe work product prepared by the JEA or others working on behalf of the JEA, the Parties agree that such observation is solely for the purpose of understanding the information and work product. Consequently, the Parties agree that BMcD has no duty to discover defects, deficiencies, or problems that may exist in any work product that is observed. Neither Party intends BMcD to assume any liability to JEA or others for the proper design, fabrication, assembly, preparation, or installation of work by others. These services

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should in no way be construed as BMcD's validation of the third-party work or BMcD's assumption of responsibility for that work. BMcD's limited review is solely to provide the JEA opinions and/or considerations that the JEA may or may not want to consider. No action or implementation regarding any opinion, recommendation, or observation expressed should be implemented without the involvement of the EOR.

8. BMcD's review is not comprehensive and is not intended to address the quality of such work or include any review for technical accuracy or completeness. During such review, BMcD will attempt to identify significant discrepancies that are observed; however, due to BMcD's limited role and considering the limited time, budget, and resources requested and approved by JEA for performing the review services, BMcD has no duty to discover all discrepancies, defects, deficiencies, or problems that may exist nor does BMcD have a duty to evaluate any approaches, means, or methods of design, fabrication or construction reflected in the work product of others which shall remain the sole responsibility of the preparer. BMcD will report any apparent deviations, inaccuracies, inadequacies, deficiencies, errors, omissions or non-conformance it discovers and advise the JEA on key areas of concern that may require additional reviews between the JEA and its EOR.
9. BMcD does not represent or guarantee that any review conducted by BMcD will identify all errors, omissions, or other deficiencies in others' work.
10. BMcD shall not be responsible, in any way, and JEA shall waive and release, and otherwise indemnify and defend BMcD for any issues, claims, liabilities, losses, or damages arising out of or related to any of the third-party work or design and JEA shall solely hold the third-party accountable for the design deficiencies and/or the work quality, and the third party shall be solely responsible and liable for the design and deficient work.
11. BMcD will perform the technical reviews of the third-party design submittals limited to those listed in Sections 2.0 and 3.0 above. The purpose of these reviews will be to assess compliance with technical specification requirements. All responsibility for design remains with the third-party designer of record.
12. BMcD is not being engaged to serve as designer or engineer in connection with the final work product associated with this project.
13. The design being reviewed is not finalized and BMcD's review is based upon preliminary design information. The progression and finalization of the design may require additional review and/or affect the comments made by BMcD in its deliverable.
14. It is understood the JEA's team (including the EOR and the JEA's vendors/suppliers) has implemented a quality assurance / quality control program into its project delivery services. Since the JEA and other third parties are responsible for providing quality assurance / quality control, it is understood that BMcD's services are not for the purpose of performing engineering design services, or for the quality assurance / quality control of the designs, submittals, specifications, proposals, etc., provided by others. Rather, BMcD's services is solely to assist the JEA by providing additional professional perspective and comments for the JEA's consideration, decision, and action. It is expressly understood that BMcD's services are not for the purpose of evaluating or revising the technical basis of the submittals reviewed.
15. Review of building architectural systems, roofing, and penetrations are not included in the initial assessment. Assessment of the fire and ventilation systems may determine additional review of systems is required and will be discussed with JEA as additional scope for approval prior to commencing additional activities.



PROPOSAL FOR

601/Church St. 69kV Underground Relocation Project

SUBMITTED TO
JEA

August 1, 2025



August 1, 2025

Mr. Darrell Hamilton
Manager, Transmission & Substation Projects
JEA
225 North Pearl Street
Jacksonville, FL 32202

RE: 601/Church St. 69kV Underground Relocation Project

Dear Mr. Hamilton,

On behalf of Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell), thank you for this opportunity to provide a proposal for the 601/Church St. Underground Relocation Project. This proposal outlines the scope of the work we will undertake in support of this project in its entirety.

We hope JEA sees Burns & McDonnell as a **trusted partner** offering **unique, value-add solutions**. This is why one of Burns & McDonnell's core principles is "Making Our Clients Successful". And as a trusted partner, our skilled, multi-discipline teams work as cohesive unit with JEA providing a full-service experience built to address your unique challenges.

Specifically, our the Burns & McDonnell Underground & Submarine Cables team provides:

- Unparalleled cable system design, manufacturing, and testing knowledge ranging from 5kV to 500kV
- A vast routing and feasibility background evaluating public, permitting, environmental, and construction impacts
- Fully-integrated Engineering, Procurement, and Construction (EPC) teams
- A long-history of construction and real-world application in urban and challenging locations

The scope of the work outlined in this proposal is in response to discussions with JEA and is proposed to be executed under contract # JEA11972. Additionally, Burns & McDonnell is here and ready to support JEA with procurement and construction services associated with this project as may be requested in the future by JEA.

We are prepared to start work on this exciting project immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,



Matthew Kapusta, PE
Regional Global Practice Manager
Transmission & Distribution Services
mkapusta@burnsmcd.com



Randy Koncelik, PMP
Account Manager
Transmission & Distribution Services
rjkoncelik@burnsmcd.com

1.0 Project Description

JEA received notification from Florida DOT (FDOT) the need to relocate an existing 69kV underground circuit, 601, in anticipation of future Interstate-95 improvements.

The underground portion of the 601 Circuit to be relocated extends from the Church St. Substation to an existing concrete riser pole located at the intersection near W Church St. and Eaverson St. and is shown in Figure 1.

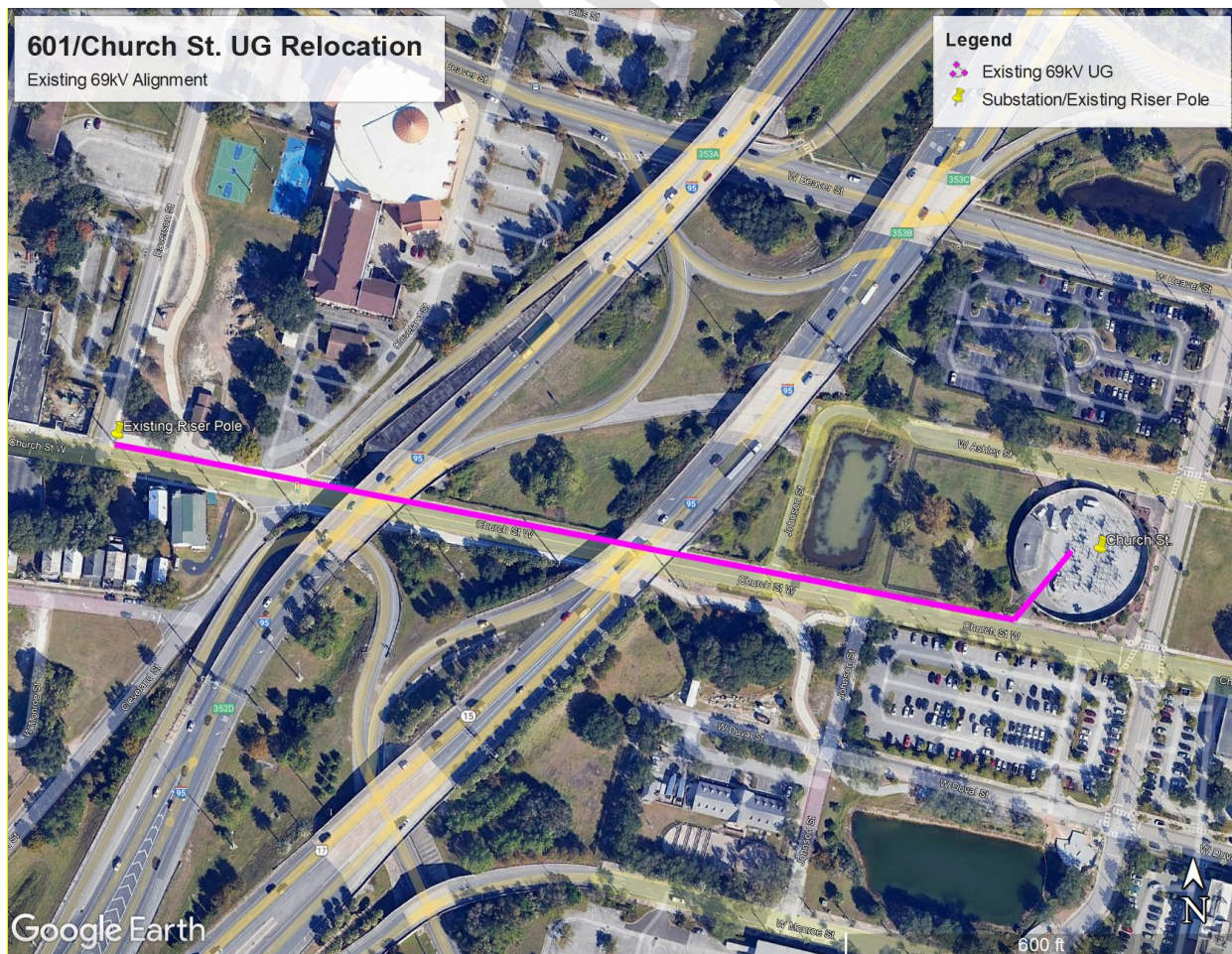
JEA has requested that Burns & McDonnell provide engineering and design services for the relocation of the existing circuit with the potential for future procurement activities. Additionally, JEA has requested that the existing riser pole to be evaluated to see if it can be re-utilized. The existing circuit is approximately 1,600 L.F. from termination to termination. Burns & McDonnell understands that the existing circuit is direct-buried, but the new installation will utilize a duct bank and manhole system per current JEA practice.

General timeline of replacing the existing 601 Circuit is:

- Preliminary Engineering – Q4 2025
- Procurement – Q1 thru Q2 2026
- Construction – Q2 thru Q3 2026 (Relocation required to be complete for FDOT – 9/30/2026)

Burns & McDonnell has prepared a proposal and estimate to provide detailed engineering to relocate the existing 601 underground circuit as described further in this proposal. Procurement and construction support effort is included in this proposal, but separate procurement and construction service requests will be submitted as separate proposals as may be requested by JEA.

Figure 1 - Project Location



2.0 Required Information

Burns & McDonnell has identified key inputs to the engineering design process, which must be supplied by JEA as outlined below to meet the deliverable dates provided in this proposal.

Information type are as follows and will be required upon award unless otherwise noted:

- Underground
 - a. Existing 601 Circuit information including, but not limited to:
 - i. As-builts,
 - ii. Plan and profile drawings
 - iii. Detail drawings
 - iv. Church St. Substation drawings
 - b. JEA underground design and material standards
 - c. JEA Operations & Maintenance guidelines and practices
 - d. Agreements and/or Commitments to FDOT
- Existing and proposed I-95 bridge drawings including foundation and abutment drawings and details
- Overhead
 - a. Transmission line design philosophy
 - b. Existing ROW or easement boundaries (dwg format)
 - c. Existing easement documents to identify special considerations on additional new transmission structures.
 - d. Existing structure framing drawings
 - e. Existing structure shop drawings
 - f. Existing riser structure moment capacity diagram
 - g. Existing foundation drawings
 - h. Existing transmission line Plan & Profile
 - i. Existing transmission line PLS CADD model(if available)
 - j. Existing assembly and hardware drawings

3.0 Preliminary Engineering Scope of Work and Engineering Approach

Kickoff Meeting/Pre-Design Site Visit

Burns & McDonnell will conduct a site visit and at the same time, hold an in person project Kickoff Meeting. Travel and expenses for up to two underground resources and two overhead resources to attend the Kickoff Meeting and site visit has been included.

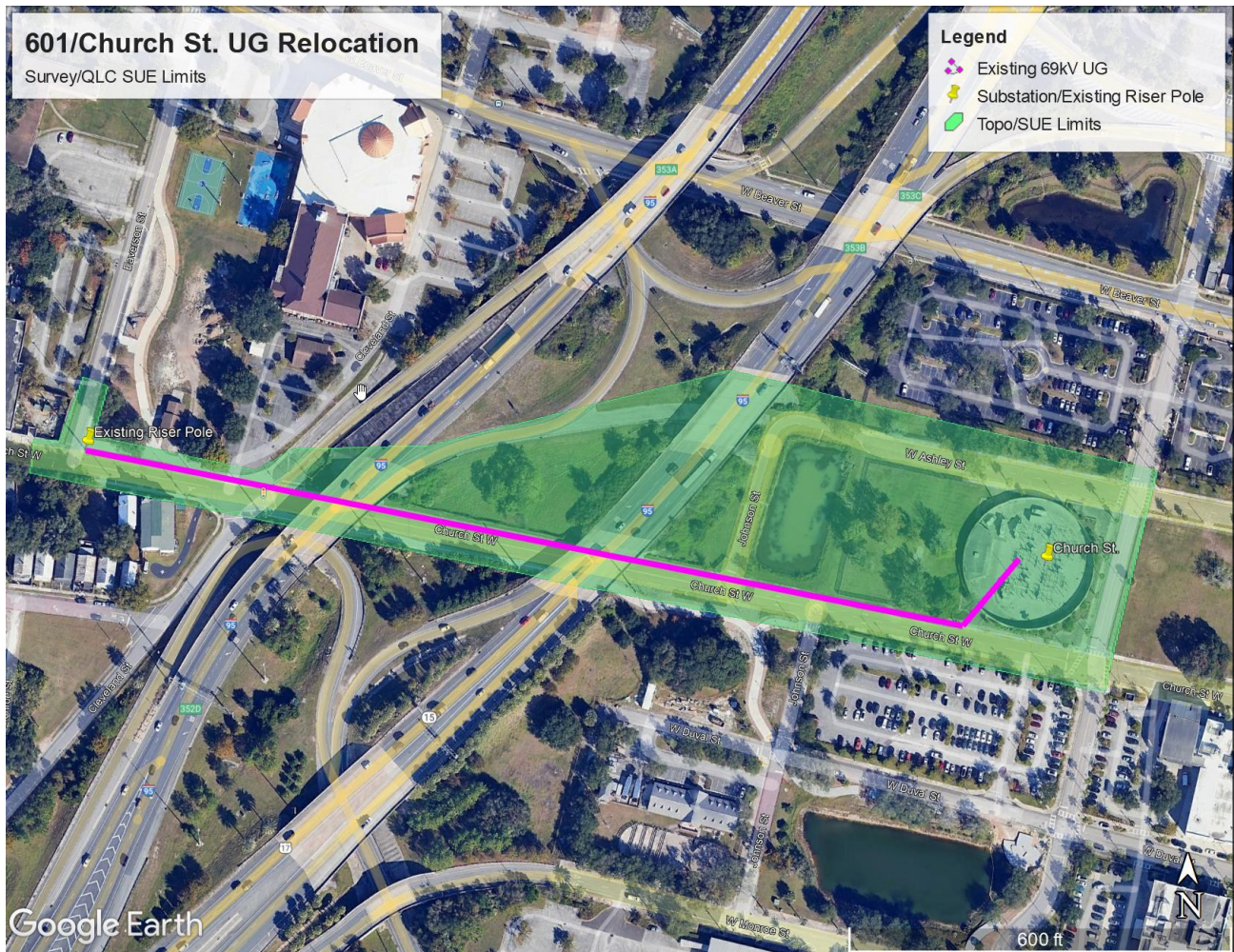
Design Basis Criteria Memorandum (DBCM)

Following the Kickoff Meeting and receipt of all required JEA-provided information, Burns & McDonnell will create a DBCM to document and memorialize all critical design criteria, assumptions, and directives for the project. The DBCM will be submitted to JEA for review and approval.

Field Investigations

Topographic and Subsurface Utility Engineering (SUE) Survey – Promptly following the NTP, Burns & McDonnell will release our Survey Subcontractor to obtain topographic, planimetric, and Quality Level C (per ASCE 38-22) SUE Survey. Survey within the Church St. property fence is not included. The survey area included is shown in Figure 2.

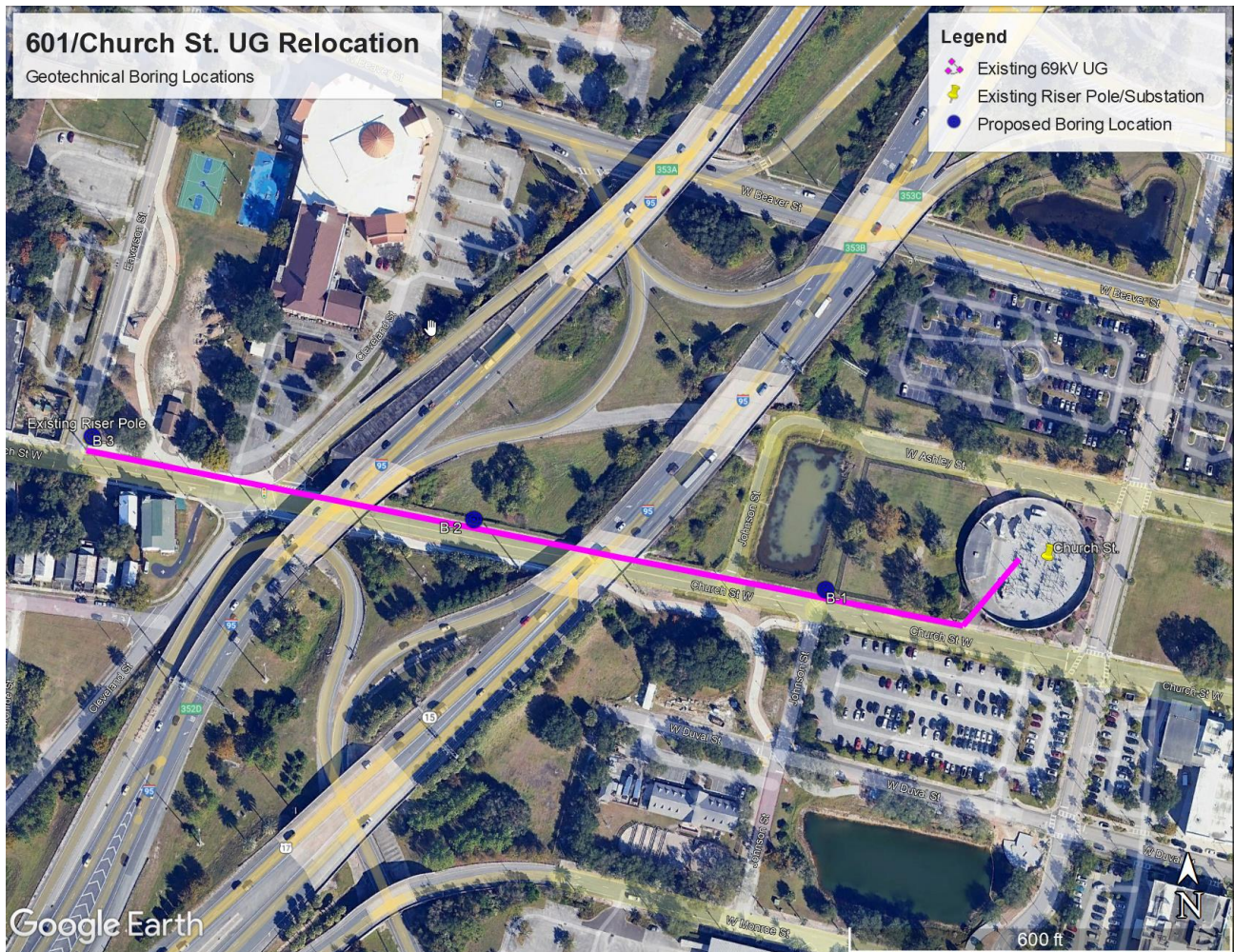
Figure 2 - Survey/SUE Limits



Geotechnical Investigations – In parallel with the survey work, Burns & McDonnell will release our Geotechnical Subcontractor to obtain up to three soil borings in the approximate location shown in Figure 3

- Borings B1 and B2 will extend to a depth of 20 ft.
- Boring B3 will extend to a depth of 60ft.
- Six, Thermal Resistivity samples will be collected at 5 and 8 ft. depths
- Geotechnical Report to summarize associated boring logs, laboratory testing, and recommendations.

Figure 3 - Geotechnical Investigation



Design Review Meeting

Burns & McDonnell will host an in-person page-turn meeting to review the IFR package with JEA. Travel and expenses for up to two underground resources and two overhead resources to attend the Design Review Meeting is included.

IFR/IFP Package

Burns & McDonnell will create an approximately 90% Design Package, including:

- Plan and Profile drawings of the existing Riser structure and immediately adjacent structures (1"=100' horz; 1"= 30' vert)
- Riser structure framing, conductor assembly and phasing drawings
- Plan and Profile drawings of the proposed duct bank alignment (1"=20' horz; 1"= 5" vert)
- Typical details including duct bank cross sections, terminations, riser poles and other related construction details
- Soil Erosion/Soil Conservation details using agency having jurisdiction (AHJ) typical guidelines and details (No additional SWPPP or associated permits are assumed)
- Material and installation technical specifications to supplement JEA standard specifications, which can include up to :
 - a. Cable Material and Accessories Specifications
 - b. Cable Installation Specification

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- c. Cable Testing Specification
 - d. Civil Duct Bank and Manhole Material and Installation Specifications
 - e. Civil Trenching and Site Work Specifications
- Bill of Materials (BOM) of major long-lead material items including cable, accessories, and manholes/handholes

Cable Calculations

Burns & McDonnell will perform the following cable calculations:

- Cable Pulling Calculations - one round of cable pulling calculations for the IFR design alignment.
- Ampacity Calculations – one round of cable ampacity calculations using the latest version of CymCap to verify the JEA-provided cable size (2000 kcmil CU EPR) with collected thermal resistivity samples.

Maintenance and Protection of Traffic (MPT) Design

Burns & McDonnell will provide PDFs for a 90% submittal of temporary traffic control drawings and standards in accordance with the MUTCD 11th edition per Florida Department of Transportation (FDOT) and City of Jacksonville, Florida permitting requirements. These will include traffic control for vehicle and pedestrian traffic. This does not include a traffic impact analysis.

Detailed Design

The Following Design Criteria will be followed:

- Church Street – 25 MPH
 - From Existing Riser Pole to Intersection of I-95
 - Two-way Traffic to be reduced to one lane during work hours during work hours.
 - Emerald Trail Mutli-Use Path on North side to be detoured to Beaver Street during work hours.
 - Intersection of I-95
 - HDD bore underneath I-95 SB off ramp within WB lane of Church Street.
 - Emerald Trail Mutli-Use Path on North side to be detoured to Beaver Street during work hours.
 - Two-way Traffic to be reduced to one lane during work hours.
 - Emerald Trail Mutli-Use Path on North side to be detoured to Beaver Street during work hours.
 - From Intersection of I-95 to Johnson Street North
 - Two-way Traffic to be reduced to one lane during work hours.
 - Emerald Trail Mutli-Use Path to remain open
 - Sidewalk to be closed and detoured to Emerald Trail
 - Intersection of Johnson Street North
 - Close and Detour Johnson Street North to Beaver Street during working hours.
 - Two-way Traffic to be reduced to one lane during work hours.
 - Emerald Trail Mutli-Use Path to remain open
 - Sidewalk to be closed and detoured to Emerald Trail
 - From Johnson Street North to Johnson Street South
 - Close and Detour Johnson Street North to Beaver Street during working hours.
 - Two-way Traffic to be reduced to one lane during work hours.
 - Emerald Trail Mutli-Use Path to remain open
 - Sidewalk to be closed and detoured to Emerald Trail
 - Intersection of Johnson Street South
 - Two-way Traffic to be reduced to one lane during work hours.
 - Emerald Trail Mutli-Use Path to remain open
 - Sidewalk to be closed and detoured to Emerald Trail
 - From Johnson Street South to Substation
 - One-way traffic only, this section is one way
 - Sidewalk to be closed and detoured to Emerald Trail

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The plan sheets will be created via MicroStation, using FDOT ORD Standards. A digital PDF set will be delivered 60 days after notice to provide and Survey/alignment files are created.

All plan sheets will be signed by a Florida PE and a Certified FDOT Advanced MOT Professional.

Procurement Support

In addition to providing BOM, Burns & McDonnell will support procurement of the cable by providing cable cut lengths using the IFR Package.

Cost Estimate

Burns & McDonnell will create a Class 2 (-15%/+20% per AACE) cost estimates for the reflective of the IFR Package.

Environmental Desktop Review and Routing Analysis

The Burns & McDonnell permitting team will work closely with the engineering team and evaluate the study area. Burns & McDonnell's efforts will be focused on the proposed route that is anticipated to be limited to previously disturbed soils.

Data Collection

Burns & McDonnell's data collection will begin with a literature search for information such as soil surveys, geological maps and studies, floodplain maps, National Wetland Inventory maps, and other environmental reports and publicly available Geographic Information System (GIS) data. Land use and zoning information, as well as the most recent publicly available aerial photography, will be obtained for the project area. Information will be obtained from various sources, including federal, state, and local agencies, and information databases accessible through the internet. Burns & McDonnell will coordinate with JEA when contacting federal, state, and local agencies that have jurisdiction within the study area.

GIS data obtained on the natural and social resources within the study area will be compiled into a Project geodatabase for displaying and evaluating Project-related issues and concerns related to study area resources. GIS staff will acquire necessary digital data from sources such as the City of Jacksonville's GIS site and prepare large-scale maps depicting the study area, constraints map, and the route overlaid on the digital aerial photography and U.S. Geological Survey (USGS) quadrangles for review and siting.

We anticipate obtaining data pertinent to the study area. This data may be obtained from the following sources:

- Physiography and Geology – USGS, Natural Resource Conservation Service (NRCS)
- Hydrology and Wetlands – U.S. Army Corps of Engineers (USACE) hydrography datasets, Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM), National Wetland Inventory Maps, USGS topographic quadrangle maps, National Hydrography Dataset
- Soils – NRCS soil survey and digital SSURGO soils
- Wildlife – US Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC), Florida Fish & Wildlife Species Locations identified from the Florida Department of Environmental Protection (FDEP) Map Direct
- Aquatic Ecology – USGS maps, USFWS IPaC
- Socioeconomics – U.S. Bureau of the Census, county/city administrators, community land use and recreation plans
- Land Use, Roads, Railroads, and Residences – Digital orthophotography, aerial photography, county land use and recreation plans and National Land Cover Dataset (NLCD). Conservation easements and state/federal lands will be identified from data obtained from the National Conservation Easement Database (NCED), Protected Areas Database of the United States (PADUS), and FDEP Map Direct
- Utilities / Structures – Radio and cell towers will be identified using digital Federal Communications Commission data and field reconnaissance. Existing transmission lines will be mapped using Energy Velocity data supplemented with aerial photography review to confirm locations.
- Hazardous/Industrial Sites – USEPA Environmental Compliance History Online (ECHO) database
- Airports, Radar, and Navigational Facilities – National Flight Center Data and evaluation of flight operations and obstruction surfaces

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- Cultural Resources – Florida State Historic Preservation Office data request
- Land Cover/Aerial Photography – National Agriculture Imagery Program (NAIP) and field reconnaissance
- Parcel Information – Duval County digital parcel data, if available

Desktop Permitting Review

Based on the results of the data collection efforts, Burns & McDonnell will prepare a comprehensive list of potentially applicable permits and approvals required for the different route options. The results will be presented in a permit matrix and will identify the federal, state, and local permits that will be required along with estimated permit fees, estimated agency review time, and general notes to discuss applicability and other information pertaining to permit submittal requirements.

Permitting Support

Burns & McDonnell will prepare and submit on behalf of JEA applicable permit applications and associated application fees to the City of Jacksonville and Florida Department of Transportation (FDOT). Based upon a preliminary permit review, Burns & McDonnell anticipates submitting applications for two City of Jacksonville permits, including a Right-of-Way permit and Major Utility Construction Permit and one FDOT Utility Permit. Costs associated to additional permit submittals or incurred costs associated to project-design fee calculations, reviews, or permit revisions will be reimbursable by JEA. Burns & McDonnell anticipates the development of a Soil Erosion and Sediment Control (SESC) Plan to accompany permit submittals to the City of Jacksonville and FDOT. The Burns & McDonnell Environmental Team will review the SESC Plan in accordance with applicable Florida standards. Travel and expenses for one resource to attend the Kick-Off Meeting and Design Review Meeting in support of permitting discussions.

4.0 Detailed Engineering Deliverables

Burns & McDonnell will supply the following deliverables based on the provided milestones to JEA:

- DBCM
- IFR/IFP Package Submittal
- Class 2 Cost Estimate
- Permitting Matrix

5.0 Value-Add Scope (Optional)

While not specifically requested by JEA, Burns & McDonnell has included additional scope for consideration. These activities serve to provide JEA with additional engineering and field investigation to mitigate risk.

Quality Level A – Test Pitting Services

Quality level A (QLA) SUE or test pitting services is recommended prior to construction to help identify subsurface utility conflicts and to mitigate construction risk and changes. Upon request, Burns & McDonnell can provide additional pricing for QLA services.

Replacement Riser Structure

Burns & McDonnell assumes that the current riser structure is capable of handling the new loads and wire as part of the underground relocation and upgrade. However, if the existing structure is deemed inadequate, Burns & McDonnell can provide engineering services for the relocation and design of a new riser structure. As part of this additional design effort, Burns & McDonnell would require one (1) additional Level B SUE and one (1) additional soil boring at the proposed new riser structure location.

6.0 Project Management

Burns & McDonnell's project manager will provide general project administration, budgeting, invoicing, change management, risk assessment and day-to-day management of the Burns & McDonnell effort.

Kickoff Meeting

A project kickoff conference call will be scheduled following award of the project at a time mutually available for JEA and Burns & McDonnell. Burns & McDonnell has included in-person travel costs for a Kickoff Meeting in conjunction with the

Award #1 - Regular Agenda Supporting Documents 8/21/2025

Pre-Design Site Visit. The primary objective of the Kickoff Meeting is to exchange requested information, review the project plan and build consensus for next steps. Some of the key discussion items will be as follows:

- Review work previously completed; and discuss objectives and expectations moving forward
- Identify project roles and responsibilities; and JEA communication lines and protocols
- Review scope of work, schedule and key project risks
- Identify and exchange information needed to perform the work

IFR Review Meetings

In addition to the project Kickoff Meeting, Burns & McDonnell has also included an in-person review meeting with JEA and key stakeholders to review the IFR deliverables package. These meetings will be held to review submitted deliverables, discuss comments, solicit feedback on draft deliverables and discuss the overall project status. The meeting will be attended in-person by at least two people from Burns & McDonnell. The remote teams will attend virtually.

Project Status Meetings

Burns & McDonnell will attend up to 10, bi-weekly, one-hour conference calls with the JEA project team to discuss progress, action items and issues for the duration of project work. Burns & McDonnell attendance for this meeting will include the project manager and engineering leads and be held virtually.

It is expected that miscellaneous additional conference calls will be required throughout the course of the project. Burns & McDonnell has allocated an additional four man-hours as a level of effort for this item throughout the proposed project duration.

7.0 Project Schedule – Preliminary Design

The proposed schedule estimate for the preliminary design scope is illustrated in the table below. Following project award, Burns & McDonnell will schedule a Kickoff Meeting as mutually available for JEA. Ten day review and comment period has been assumed for all JEA reviews.

Activity/Milestone	Date
Notice to Proceed (NTP)	September 1, 2025
Anticipated Kick-off Meeting	September 9, 2025
Receipt of Required JEA Data and Material	September 23, 2025
Anticipated Site Visit	Week of September 8, 2025
Burns & McDonnell submits DBCM	October 13, 2025
Burns & McDonnell submits IFR/IFP Package	January 27, 2026
Burns & McDonnell submits Class 2 Cost Estimate	May 4, 2026

8.0 Project Estimate – 601/Church St. 69kV Underground Relocation Project

The estimated cost for the 601/Church St. 69kV Underground Relocation Project is illustrated in the table below.

SCOPE – 601/Church St. 69kV Underground Relocation Project	FEE
Project Management	\$71,648
Survey/QL-C SUE	\$27,057
Geotechnical Investigation	\$51,239
Engineering	\$165,005
Permitting	\$28,338
MPT Engineering	\$37,796
Travel and Expenses	\$15,500
Optional Scope – engineering to replace Riser Structure (if required)	\$80,332
TOTAL FEE¹: \$396,583.00	

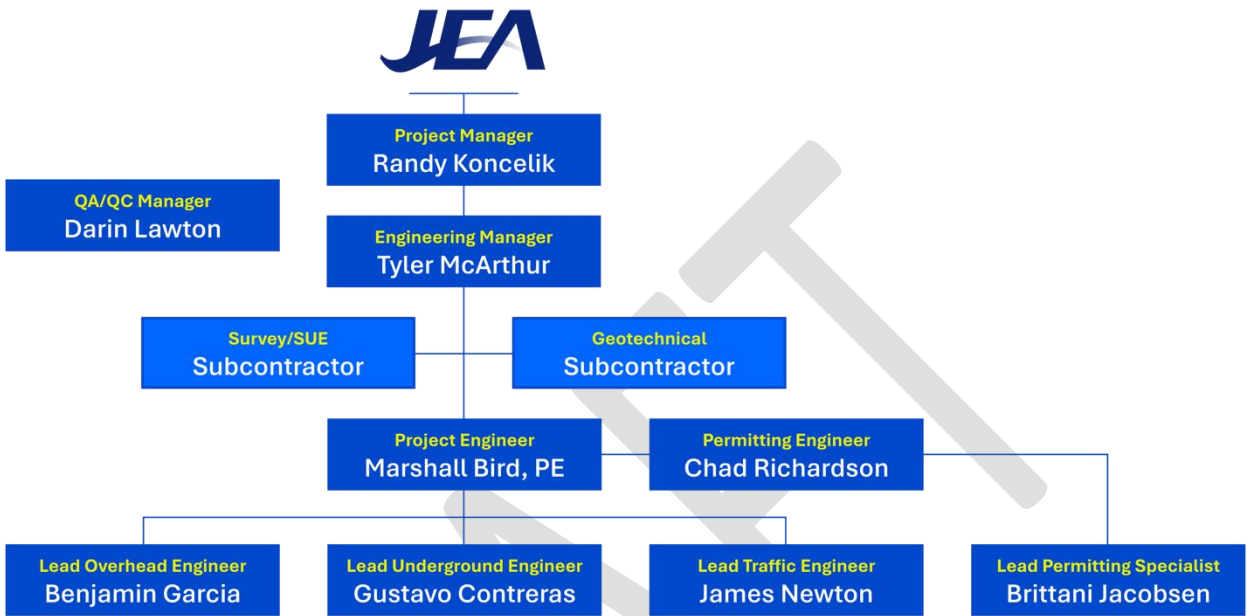
¹ Does not include optional scope

DRAFT



8.0 Team Organization and Experience

8.1 Project Team Organizational Chart



9.0 Assumptions, Clarifications and Exceptions

1. This proposal outlines the scope of the work Burns & McDonnell will undertake in support of this project in its entirety. Any alterations, additions or deletions to the scope of the work would be executed with a mutually agreeable change order.
2. No outage sequencing considerations are included.
3. Only one round of consolidated comments is included.
4. Burns & McDonnell assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project; and additional studies to identify elements of the design criteria and standards will not be required.
5. No field assessments, including cultural, wetland or protected species field surveys, are included in the scope of the work. It is assumed that data collected from desktop reviews is sufficient to provide JEA with a permitting summary.
6. Mitigation costs associated with wetland impacts will not be included in the permit matrix. This is typically done after wetland delineation surveys are completed following specific guidelines from U.S. Army Corp of Engineers and Florida Department of Environmental Protection.
7. A 25-foot buffer on either side of the proposed route centerline will be analyzed as part of the desktop study.
8. Assumes existing and proposed FDOT bridge drawings are available within 2 weeks of NTP.
9. Assumes no coordination is needed with other utilities in Church St.
10. No real estate investigation is included.
11. Maintenance of Traffic design assumes no alignment changes are necessary and that no closure to I-95 is required.
12. Existing riser structure documentation, such as load tree drawings, shop drawings, foundations details, etc. is available for structure review
13. Existing riser structure is adequate for the proposed loading conditions.
14. Estimates, schedules, forecasts, and projections prepared by Burns & McDonnell are opinions based on Burns & McDonnell's experience, qualifications, reference projects, historical information, and judgment as a professional. Since Burns & McDonnell has no control over the weather, labor or material availability or cost, and other factors affecting such estimates or projections, Burns & McDonnell does not guarantee the actual rates, costs, quantities, performance, schedules, etc., will not vary significantly from estimates and projections prepared by Burns & McDonnell. Burns & McDonnell estimates shall not be offers to sell.

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CHANGE ORDER NO. 1
For Contract between Client and Burns & McDonnell

Project Name: Caldwell Solar PV Substation Design BMcD Project No. 173284
 Client: JEA Client Project No. 8009569
 Engineer: Burns & McDonnell Contract No. 11972

The below noted modification(s) to subject Contract are directed by Client and accepted by Burns & McDonnell (any applicable attachments are specifically identified):

Additional Meeting Support:

- JEA-FRP JAGITS coordination meetings
- JEA-Distran coordination meetings
- JEA Control Enclosure bid meeting
- JEA/FRP distribution coordination meetings

Scope Additions, Updates and Changes:

- Added Control Enclosure Specification document
- JEA-FRP JAGITS document support
- Added fiber scope from Transmission Line to Sub SOW: T-line pole fiber manhole/conduit design and details/materials
- Control Enclosure vendor bid package evaluations
- Added Lighting (Illumination) Study

Schedule

- Moved up Design Specification deliverable date (requiring resource change to higher level support)
- Design schedule delay due to Geotech report receivable delay.

As a result of the modification(s) described above:

The revised **Contract Price** is:

Original Contract Price	\$ <u>419,610</u>
Total net amount of all previous Change Orders	(+ or -) \$ <u>0</u>
Total net amount of all previous variable quantity adjustments	(+ or -) \$ <u> </u>
Total net amount of this Change Order.....	(+ or -) \$ <u>50,000</u>
Current Contract Price, including this Change Order.....	\$ <u>469,610</u>

The revised **Contract Time** is:

	<u>Substantial Completion</u>	<u>Ready for Final Payment</u>
Original Completion Date(s).....	<u>7/1/25 (IFC)</u>	<u>N/A</u>
Total net time adjustment* of all previous Change Orders(+ or -)	<u>N/A</u>	<u>N/A</u>
Total net time adjustment* of this Change Order.....(+ or -)	<u>N/A</u>	<u>N/A</u>
* Time adjustment is specified in: <input checked="" type="checkbox"/> Working Days <input type="checkbox"/> Calendar Days <input type="checkbox"/> Other <u>N/A</u>		
Current Completion Date(s), including this Change Order	<u>9/5/25(IFC)</u>	<u>N/A</u>

The price and/or time extension set forth in this Change Order is full compensation for all costs and delays, direct and indirect, incurred in connection with the conditions giving rise to this Change Order, the work specified herein, and any consequential costs, delays, or effects on unchanged work resulting therefrom.



01-05-15 Form CO-1

This Change Order, when executed, constitutes a modification to the Contract and all provisions of the Contract, except as modified above and by any previous Change Orders, shall apply hereto.

CLIENT

BURNS & McDONNELL

By Darrell Hamilton

By Randolph Koncelik

Date 7/21/2025

Date 7/21/2025



CHANGE ORDER NO. 1
For Contract between Client and Burns & McDonnell

Project Name: Miller Solar PV Substation Design BMcD Project No. 173283
 Client: JEA Client Project No. 8009570
 Engineer: Burns & McDonnell Contract No. 11972

The below noted modification(s) to subject Contract are directed by Client and accepted by Burns & McDonnell (any applicable attachments are specifically identified):

Additional Meeting Support:

- JEA-FRP JAGITS coordination meetings
- JEA-Distran coordination meetings
- JEA Control Enclosure bid meeting
- JEA/FRP distribution coordination meetings

Scope Additions, Updates and Changes:

- Redesign of Substation General Arrangement after 60% design completed (moving Dead-end Structures outside ring bus. Based on operations and maintenance feedback).
- Added Control Enclosure Specification document
- JEA-FRP JAGITS document support
- Added fiber scope from Transmission Line to Sub SOW: T-line pole fiber manhole/conduit design and details/materials
- Control Enclosure vendor bid package evaluations
- Added Lighting (Illumination) Study

Schedule

- Moved up Design Specification deliverable date (requiring resource change to higher level support)
- Design schedule delay due to Geotech report receivable delay.

As a result of the modification(s) described above:

The revised **Contract Price** is:

Original Contract Price	\$ <u>385,540</u>
Total net amount of all previous Change Orders	(+ or -) \$ <u>0</u>
Total net amount of all previous variable quantity adjustments	(+ or -) \$ <u> </u>
Total net amount of this Change Order.....	(+ or -) \$ <u>55,000</u>
Current Contract Price, including this Change Order.....	\$ <u>440,540</u>

The revised **Contract Time** is:

	<u>Substantial Completion</u>	<u>Ready for Final Payment</u>
Original Completion Date(s).....	<u>7/8/25 (IFC)</u>	<u>N/A</u>
Total net time adjustment* of all previous Change Orders(+ or -)	<u>N/A</u>	<u>N/A</u>
Total net time adjustment* of this Change Order.....(+ or -)	<u>N/A</u>	<u>N/A</u>
* Time adjustment is specified in: <input checked="" type="checkbox"/> Working Days <input type="checkbox"/> Calendar Days <input type="checkbox"/> Other <u>N/A</u>		
Current Completion Date(s), including this Change Order	<u>10/16/25 (IFC)</u>	<u>N/A</u>

The price and/or time extension set forth in this Change Order is full compensation for all costs and delays, direct and indirect, incurred in connection with the conditions giving rise to this Change Order, the work specified herein, and any consequential costs, delays, or effects on unchanged work resulting therefrom.



01-05-15 Form CO-1

This Change Order, when executed, constitutes a modification to the Contract and all provisions of the Contract, except as modified above and by any previous Change Orders, shall apply hereto.

CLIENT

BURNS & McDONNELL

By Darrell Hamilton

By Randolph Koncelik

Date 7/21/2025

Date 7/21/2025



PROPOSAL FOR

Solar PV – Miller New 230kV Switchyard Telecommunications Project

SUBMITTED TO
JEA

December 5, 2024



December 5, 2024

Mr. Darrell Hamilton
Manager, Transmission & Substation Projects
JEA
225 North Pearl Street
Jacksonville, FL 32202

RE: Solar PV – Miller New 230kV Switchyard Telecommunications Project

Dear Mr. Hamilton,

On behalf of Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell), thank you for this opportunity to provide a proposal for telecommunication engineering and design services for the Solar PV – Miller New 230kV Switchyard project. This proposal outlines the scope of the work we will undertake in support of this project in its entirety.

The telecommunications scope of the work outlined in this proposal is complimentary to the proposal for the protection & control and SCADA scope of work, which was sent to Mr. Ryan Heaton on November 26, 2024. We propose that this work is to be added as a change order to Purchase Order 223643, dated September 10, 2024.

We are prepared to start work on this exciting project immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,

A handwritten signature in black ink that reads "Matthew Kapusta".

Matthew Kapusta, PE
Regional Global Practice Manager
Transmission & Distribution Services
mkapusta@burnsmcd.com

A handwritten signature in black ink that reads "Randy Koncelik".

Randy Koncelik, PE
Project Manager, Point of Contact
Transmission & Distribution Services
rjkoncelik@burnsmcd.com

1.0 Project Description

JEA has requested that Burns & McDonnell prepare a proposal and estimate to provide telecommunication engineering services for the new greenfield Miller 230kV switchyard to interconnect the planned Miller solar photovoltaic (PV) resource, which will have a total net output of 74.9 MW in the summer and 40 MW in the winter. The project site is in the western area of JEA's service territory, east of JEA's Brandy Branch 230kV substation. The requested in-service date for the project is September 30, 2026.

Burns & McDonnell will engineer the telecommunication system at the 230kV Miller switchyard site, including updates at the JEA remote end sites – Normandy and Brandy Branch – as well as the necessary coordination with the Miller PV site to establish SCADA and relay protection telecommunication circuits.

2.0 Required Information

Burns & McDonnell has identified key inputs to the engineering design process, which must be supplied by JEA as outlined below to meet the deliverable dates provided in this proposal.

Information type are as follows and will be required upon award unless otherwise noted:

- Remote end drawings files in MicroStation
- JEA standards and go-by drawings in MicroStation
- Telecommunication CAD standards

3.0 Telecommunication Scope of Work and Engineering Approach

The telecom architecture will integrate Ciena Carrier Ethernet, ICON multiplexers and secure networking equipment to facilitate real-time data exchange, SCADA operations and relay protection communication. Fiber interconnections from Normandy and Brandy Branch will be routed into the control house via diverse paths to ensure physical and logical redundancy. Far-end sites will be updated to establish connectivity with the transport network.

Coordination with the PV site at Miller will incorporate connectivity for current differential protection and RTU interconnections.

Major Telecommunications Equipment

The following equipment will be required at the 230kV Miller switchyard:

- Two 19-inch racks comprised of the following:
 - Ciena Carrier Ethernet
 - ICON multiplexer
 - Cisco 9300
 - Three fiber distribution panels – one for Brandy Brandy, one for Normandy and one for Miller PV
 - Two D/C rectifiers – type to be determined
 - Two vertical double-sided cabinet managers

4.0 Telecommunication Deliverables

Burns & McDonnell will supply the following deliverables based on the provided milestones to JEA:

10% Design Submittal

- Telecommunication block diagram, including updates at JEA remote end sites – Normandy and Brandy Branch

30% Design Submittal

- Latest version of all drawings submitted in the 10% submittal package
- Drawing index (telecommunication drawings only)
- BOM/rack arrangement
- Fiber splice diagram(s)

- Construction description letter

60% Design Submittal

- Latest version of all drawings submitted in the 30% submittal package
- D/C schematic diagrams
- Fiber distribution panel connection diagrams
- Fiber routing diagrams

90% Design Submittal

- Latest version of all drawings submitted in the previous submittal packages
- Telecommunication rack connection diagrams
- BOM

Issue for Construction (IFC) Package (100% Design Submittal)

- Comments from all stakeholders incorporated into design package
- Latest version of all drawings submitted, signed and sealed
- Complete BOM

As-Built Package

The following items will be provided to JEA after receiving construction records and post-construction design verification:

- List of any construction changes
- Updated drawings based on redlines to Burns & McDonnell after construction

5.0 Construction Support

In-Office Construction Support

After issuance of the IFC package, Burns & McDonnell will remain available to support purchaser/final owner with review of contractor material submittals and technical support required to answer contractor requests for information related to the IFC package. Twenty-four (24) hours of in-office support has been included in the estimate for these engineering services. During this time, requests for information (RFIs) from the contractor regarding the IFC package will be answered and contractor submittals will be reviewed.

Construction Site Visits

In addition to in-office construction support, Burns & McDonnell proposes to also conduct a site visit prior to energization. The trip is anticipated to include one day of on-site support, including travel time for up to two engineers.

Conformed to Construction Record (CCR) Documents

As part of the project closeout, CCR drawings will be developed. IFC drawings will be updated after receiving construction records provided by JEA. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents and drawings or otherwise clearly indicate any changes made and provide supporting information necessary to justify such changes. CCR drawings will not be sealed by a Burns & McDonnell professional engineer.

Upon completion of the CCR drawings, an electronic copy of the design related materials to close out the project will be provided. Included in this package will be the design criteria document and MicroStation files of all the CCR drawings.

Burns & McDonnell has included 24 hours to complete this effort and will complete the CCR drawings within a month after the completion of the construction.

6.0 Project Management

Burns & McDonnell’s project manager will provide general project administration, budgeting, invoicing, change management, risk assessment and day-to-day management of the Burns & McDonnell effort.

Kick-Off Meeting

A project kick-off conference call will be scheduled following award of the project. The primary objective of this meeting will be to exchange requested information, review the project plan and build consensus for next steps. Some of the key discussion items will be as follows:

- Review work previously completed; and discuss objectives and expectations moving forward
- Identify project roles and responsibilities; and JEA communication lines and protocols
- Review scope of work, schedule and key project risks
- Identify and exchange information needed to perform the work

Project Review Meetings

In addition to the project kick-off meeting, Burns & McDonnell has also included project review meetings with JEA and key stakeholders as indicated below. These meetings will be held to review submitted deliverables, discuss comments, solicit feedback on each package and discuss the overall project status. Each meeting will be attended by at least two people from Burns & McDonnell. The following remote team’s meetings are proposed, and anticipated to take up to two hours each:

- 30% telecommunications design review meeting
- 60% telecommunications design review meeting
- 90% telecommunications design review meeting
- 100% telecommunications design review meeting

Project Status Meetings

Burns & McDonnell will attend a weekly, one-hour conference call with the JEA project team to discuss progress, action items and issues for the duration of project work. Burns & McDonnell attendance for this meeting will include the project manager and engineering leads.

It is expected that miscellaneous additional conference calls will be required throughout the course of the project. Burns & McDonnell has allocated an additional four man-hours per month, as a level of effort for this item throughout the proposed project duration.

7.0 Project Estimate – Substation and Project Management

The estimated cost for the substation project scope is illustrated in the table below.

SCOPE – MILLER 230kV SWITCHYARD	FEE
Telecommunications Engineering and Design	\$51,100.00
Construction Support	\$14,400.00
Project Management	\$11,000.00
Travel and Expenses	\$3,000.00
TOTAL FEE: \$79,500.00	

7.1 Assumptions, Clarifications and Exceptions

1. This proposal outlines the scope of the work Burns & McDonnell will undertake in support of this project in its entirety. Any alterations, additions or deletions to the scope of the work would be executed with a mutually agreeable change order.
2. Security requirements, design and equipment is to be provided by JEA.
3. SCADA setting files are to be performed by JEA.
4. The testing and commissioning plan is to be performed by others.
5. The construction work outage sequence is to be performed by others.
6. We assume that line current differential relaying for primary and secondary will be used on the solar interconnection line due to the proximity of the solar switchyard.
7. Burns & McDonnell has assumed that telecommunication standards have been developed and can be utilized for the design of this project.
8. For estimating purposes, we assume that only a single review cycle will be required for fabrication drawings and design reviews with JEA.
9. Burns & McDonnell assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project; and additional studies to identify elements of the design criteria and standards will not be required.
10. Burns & McDonnell assumes that the racks and power are installed at the factory and all fiber, telecommunication equipment and associated connections are completed on site upon delivery. Refer to Section 5.0 of this proposal for anticipated construction support services Burns & McDonnell has included in this proposal.







PROPOSAL FOR

Solar PV – Caldwell New 230kV Switchyard Telecommunications Project



**SUBMITTED TO
JEA**

December 5, 2024



December 5, 2024

Mr. Darrell Hamilton
Manager, Transmission & Substation Projects
JEA
225 North Pearl Street
Jacksonville, FL 32202

RE: Solar PV – Caldwell New 230kV Switchyard Telecommunications Project

Dear Mr. Hamilton,

On behalf of Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell), thank you for this opportunity to provide a proposal for telecommunication engineering and design services for the Solar PV – Caldwell New 230kV Switchyard project. This proposal outlines the scope of the work we will undertake in support of this project in its entirety.

The telecommunications scope of the work outlined in this proposal is complimentary to the proposal for the protection & control and SCADA scope of work, which was sent to Mr. Ryan Heaton on November 26, 2024. We propose that this work is to be added as a change order to Purchase Order 223644, dated September 10, 2024.

We are prepared to start work on this exciting project immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,



Matthew Kapusta, PE
Regional Global Practice Manager
Transmission & Distribution Services
mkapusta@burnsmcd.com



Randy Koncelik, PE
Project Manager, Point of Contact
Transmission & Distribution Services
rjkoncelik@burnsmcd.com

1.0 Project Description

JEA has requested that Burns & McDonnell prepare a proposal and estimate to provide telecommunication engineering services for the new greenfield Caldwell 230kV switchyard to interconnect the planned Caldwell solar photovoltaic (PV) resource, which will have a total net output of 74.9 MW in the summer and 40 MW in the winter. The project site is in the western area of JEA's service territory, east of JEA's Brandy Branch 230kV substation. The requested in-service date for the project is September 30, 2026.

Burns & McDonnell will engineer the telecommunication system at the 230kV Caldwell switchyard site, including updates at the JEA remote end sites – Cecil Commerce Center North and Brandy Branch – as well as the necessary coordination with the Caldwell PV site to establish SCADA and relay protection telecommunication circuits.

2.0 Required Information

Burns & McDonnell has identified key inputs to the engineering design process, which must be supplied by JEA as outlined below to meet the deliverable dates provided in this proposal.

Information type are as follows and will be required upon award unless otherwise noted:

- Remote end drawings files in MicroStation
- JEA standards and go-by drawings in MicroStation
- Telecommunication CAD standards

3.0 Telecommunication Scope of Work and Engineering Approach

The telecom architecture will integrate Ciena Carrier Ethernet, ICON multiplexers and secure networking equipment to facilitate real-time data exchange, SCADA operations and relay protection communication. Fiber interconnections from Normandy and Brandy Branch will be routed into the control house via diverse paths to ensure physical and logical redundancy. Far-end sites will be updated to establish connectivity with the transport network.

Coordination with the PV site at Caldwell will incorporate connectivity for current differential protection and RTU interconnections.

Major Telecommunications Equipment

The following equipment will be required at the 230kV Caldwell switchyard:

- Two 19-inch racks comprised of the following:
 - Ciena Carrier Ethernet
 - ICON multiplexer
 - Cisco 9300
 - Three fiber distribution panels – one for Brandy Brandy, one for Cecil Commerce Center North and one for Caldwell PV
 - Two D/C rectifiers – type to be determined
 - Two vertical double-sided cabinet managers

4.0 Telecommunication Deliverables

Burns & McDonnell will supply the following deliverables based on the provided milestones to JEA:

10% Design Submittal

- Telecommunication block diagram, including updates at JEA remote end sites – Cecil Commerce Center North and Brandy Branch

30% Design Submittal

- Latest version of all drawings submitted in the 10% submittal package
- Drawing index (telecommunication drawings only)



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- BOM/rack arrangement
- Fiber splice diagram(s)
- Construction description letter

60% Design Submittal

- Latest version of all drawings submitted in the 30% submittal package
- D/C schematic diagrams
- Fiber distribution panel connection diagrams
- Fiber routing diagrams

90% Design Submittal

- Latest version of all drawings submitted in the previous submittal packages
- Telecommunication rack connection diagrams
- BOM

Issue for Construction (IFC) Package (100% Design Submittal)

- Comments from all stakeholders incorporated into design package
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The following items will be provided to JEA after receiving construction records and post-construction design verification:

- List of any construction changes
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5.0 Construction Support

In-Office Construction Support

After issuance of the IFC package, Burns & McDonnell will remain available to support purchaser/final owner with review of contractor material submittals and technical support required to answer contractor requests for information related to the IFC package. Twenty-four (24) hours of in-office support has been included in the estimate for these engineering services. During this time, requests for information (RFIs) from the contractor regarding the IFC package will be answered and contractor submittals will be reviewed.

Construction Site Visits

In addition to in-office construction support, Burns & McDonnell proposes to also conduct a site visit prior to energization. The trip is anticipated to include one day of on-site support, including travel time for up to two engineers.

Conformed to Construction Record (CCR) Documents

As part of the project closeout, CCR drawings will be developed. IFC drawings will be updated after receiving construction records provided by JEA. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents and drawings or otherwise clearly indicate any changes made and provide supporting information necessary to justify such changes. CCR drawings will not be sealed by a Burns & McDonnell professional engineer.

Upon completion of the CCR drawings, an electronic copy of the design related materials to close out the project will be provided. Included in this package will be the design criteria document and MicroStation files of all the CCR drawings.

Burns & McDonnell has included 24 hours to complete this effort and will complete the CCR drawings within a month after the completion of the construction.



6.0 Project Management

Burns & McDonnell’s project manager will provide general project administration, budgeting, invoicing, change management, risk assessment and day-to-day management of the Burns & McDonnell effort.

Kick-Off Meeting

A project kick-off conference call will be scheduled following award of the project. The primary objective of this meeting will be to exchange requested information, review the project plan and build consensus for next steps. Some of the key discussion items will be as follows:

- Review work previously completed; and discuss objectives and expectations moving forward
- Identify project roles and responsibilities; and JEA communication lines and protocols
- Review scope of work, schedule and key project risks
- Identify and exchange information needed to perform the work

Project Review Meetings

In addition to the project kick-off meeting, Burns & McDonnell has also included project review meetings with JEA and key stakeholders as indicated below. These meetings will be held to review submitted deliverables, discuss comments, solicit feedback on each package and discuss the overall project status. Each meeting will be attended by at least two people from Burns & McDonnell. The following remote team’s meetings are proposed, and anticipated to take up to two hours each:

- 30% telecommunications design review meeting
- 60% telecommunications design review meeting
- 90% telecommunications design review meeting
- 100% telecommunications design review meeting

Project Status Meetings

Burns & McDonnell will attend a weekly, one-hour conference call with the JEA project team to discuss progress, action items and issues for the duration of project work. Burns & McDonnell attendance for this meeting will include the project manager and engineering leads.

It is expected that miscellaneous additional conference calls will be required throughout the course of the project. Burns & McDonnell has allocated an additional four man-hours per month, as a level of effort for this item throughout the proposed project duration.

7.0 Project Estimate – Substation and Project Management

The estimated cost for the substation project scope is illustrated in the table below.

SCOPE – CALDWELL 230kV SWITCHYARD	FEE
Telecommunications Engineering and Design	\$51,100.00
Construction Support	\$14,400.00
Project Management	\$11,000.00
Travel and Expenses	\$3,000.00
TOTAL FEE: \$79,500.00	

7.1 Assumptions, Clarifications and Exceptions

1. This proposal outlines the scope of the work Burns & McDonnell will undertake in support of this project in its entirety. Any alterations, additions or deletions to the scope of the work would be executed with a mutually agreeable change order.
2. Security requirements, design and equipment is to be provided by JEA.
3. SCADA setting files are to be performed by JEA.
4. The testing and commissioning plan is to be performed by others.
5. The construction work outage sequence is to be performed by others.
6. We assume that line current differential relaying for primary and secondary will be used on the solar interconnection line due to the proximity of the solar switchyard.
7. Burns & McDonnell has assumed that telecommunication standards have been developed and can be utilized for the design of this project.
8. For estimating purposes, we assume that only a single review cycle will be required for fabrication drawings and design reviews with JEA.
9. Burns & McDonnell assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project; and additional studies to identify elements of the design criteria and standards will not be required.
10. Burns & McDonnell assumes that the racks and power are installed at the factory and all fiber, telecommunication equipment and associated connections are completed on site upon delivery. Refer to Section 5.0 of this proposal for anticipated construction support services Burns & McDonnell has included in this proposal.







PROPOSAL FOR

Forest Trail Solar – Protections & Controls Project Proposal

—
SUBMITTED TO
JEA

December 18, 2024



December 18, 2024

Mr. Ryan Heaton
Manager, System Protection & Controls Projects
JEA
225 North Pearl Street
Jacksonville, FL 32202

RE: Forest Trail Solar – Fiber Outside Plant (OSP), Telecom, and Dinsmore Substation Upgrade Scope

Dear Mr. Hamilton,

On behalf of Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell), thank you for this opportunity to provide a proposal for Forest Trail Solar – Protections and Controls Scope. This proposal outlines the scope of the work we will undertake in support of this project in its entirety.

We are prepared to start work on this exciting project immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,



Matthew Kapusta, PE

Regional Global Practice Manager
Transmission & Distribution Services
mkapusta@burnsmcd.com



Randy Koncelik, PE

Project Manager, Point of Contact
Transmission & Distribution Services
rjkoncelik@burnsmcd.com

1.0 Project Description

Jacksonville Electric Authority (JEA) has requested that Burns & McDonnell prepare a proposal and estimate to provide engineering services for a brownfield 230/26kV relay installation project at the Dinsmore substation. The requested in-service date for the project is March 31, 2027.

A previous project constructed the new Dinsmore 230/26 kV substation. The substation was previously provisioned for three 50MVA power transformers, nine feeders, and three capacitor banks. During this project T1 will serve as the 50MW solar farm connection point utilizing two (2) breakers installed under the previous project. An additional SEL-411L will be added to two of the existing panels for protection on the solar lines.

System Protection & Control Projects will design and implement the feeder protection schemes for this substation based on JEA's current standards.

In addition, as a result of these above-mentioned system modifications, Burns & McDonnell will be provide settings at Dinsmore station related to the solar interconnections.

2.0 Required Information

Burns & McDonnell has identified key inputs to the engineering design process, which must be supplied by JEA as outlined below to meet the deliverable dates provided in this proposal.

Information type are as follows and will be required upon award unless otherwise noted:

- Dinsmore Station drawing files in MicroStation.
- JEA Standards and Go-by drawings in MicroStation
- P&C CAD Standards
- Preferred Standard Calculation Templates and design criteria
- System Fault Data/System Aspen Model and distribution Line information (Prior to 60% design start)
- Relay settings template to be provided by JEA. (Prior to 60% design start)

3.0 Protection and controls and settings Scope of Work & Engineering Approach

This project includes a complete Protection and Control package for the new Dinsmore PV feeders. A primary Line differential and distribution line protection Scheme will be used for the Dinsmore PV feeders. Burns & McDonnell will also provide the settings scope for 2 411 L relays for two feeders as part of this scope of work.

Major P&C Equipment Required:

- Existing Panel
 - Install one (1) 424 SEL-411L current line differential and associated equipment in accordance with the latest JEA standard
- Existing Panel
 - Install one (1) 423 SEL-411L current line differential and associated equipment in accordance with the latest JEA standard

Bill of Materials (BOM)

A master BOM table will be developed and tabularized to capture all material required for the switchyard design. BOM will specify if material will be provided by JEA, and the construction contractor.

4.0 Protections & Controls Deliverables

Burns & McDonnell will supply the following deliverables based on the provided milestones to JEA:



Award #1 - Regular Agenda Supporting Documents 8/21/2025

10% Design Submittal

- Protection Single Line Diagram

30% Design Submittal

- Latest version of all drawings submitted in the 10% Submittal Package
- Drawing Index (P&C drawings only)
- AC Three Line Diagram
- BOM/Panel Arrangement
- Construction Description Letter
- Preliminary Circuit Schedule
- Battery Calculation results in pdf format

60% Design Submittal

- Latest version of all drawings submitted in the 30% Submittal Package
- AC Elementary Diagrams
- DC Elementary Diagrams and DC Schematic Diagrams
- Logic Diagrams

90% Design Submittal

- Latest version of all drawings submitted in the previous Submittal Packages
- Cable Pulling Schedule
- Relay Panel Connection Diagrams
- Equipment Connection Diagrams
- BOM
- Preliminary Settings files and calculations

Issue for Construction Package (100% Design Submittal):

- Comments from all stakeholders incorporated into design package
- Latest version of ALL drawings submitted signed and sealed
- Complete Bill of Materials (BOM)
- Final Settings files and calculations

As built Package:

The following items will be provided to JEA after receiving construction records and post-construction design verification.

- List of any Construction Changes
- Updated Drawings based on Redlines provided by construction

5.0 Construction Support

In-Office Construction Support

- After issuance of the IFC package, Burns & McDonnell will remain available to support with review of contractor



Award #1 - Regular Agenda Supporting Documents 8/21/2025

material submittals and technical support required to answer contractor requests for information related to the IFC package. Eight (8) hours of in-office support has been included in the estimate for these engineering services. During this time, requests for information (RFIs) from the contractor regarding the IFC package will be answered and contractor submittals will be reviewed.

Construction Site Visits

In addition to in-office construction support, Burns & McDonnell proposes to also conduct a site visit prior to construction. The trip is anticipated to include one day of on-site support, including travel time for up to two engineers.

Conformed to Construction Record (CCR) Documents

As part of the project closeout, Conformed to Construction Record (CCR) drawings will be developed. IFC drawings will be updated after receiving construction records provided by JEA. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents and drawings or otherwise clearly indicate any changes made and provide supporting information necessary to justify such changes. CCR drawings will not be sealed by a Burns & McDonnell professional engineer.

Upon completion of the CCR drawings, an electronic copy of the design-related materials to close out the project will be provided. Included in this package will be the design criteria document and MicroStation files of all the CCR drawings.

Burns & McDonnell has included twenty-four (24) hours to complete this effort and will complete the CCR drawings within a month after the completion of the construction.

6.0 Project Management

Burns & McDonnell's project manager will provide general project administration, budgeting, invoicing, change management, risk assessment and day-to-day management of the Burns & McDonnell effort.

Kick-Off Meeting

- A project kick-off conference call will be scheduled following award of the project. The primary objective of this meeting will be to exchange requested information, review the project plan and build consensus for next steps. Some for the key discussion items will be as follows:
- Review work previously completed; and discuss objectives and expectations moving forward
- Identify project roles and responsibilities; and JEA communication lines and protocols
- Review scope of work, schedule and key project risks
- Identify and exchange information needed to perform the work

Project Review Meetings

In addition to the project kick-off meeting, Burns & McDonnell has also included project review meetings with JEA and key stakeholders as indicated below. These meetings will be held to review submitted deliverables, discuss comments, solicit feedback on each package and discuss the overall project status. Each meeting will be attended by at least two people from Burns & McDonnell. The following remote team's meetings are proposed, and anticipated to take up to two hours each:

- 30% design review meeting
- 60% design review meeting
- 90% design review meeting
- 100% design review meeting



Project Status Meetings

Burns & McDonnell will attend a **bi-weekly**, one-hour conference call with the JEA project team to discuss progress, action items and issues for the duration of project work. Burns & McDonnell attendance for this meeting will include the project manager and engineering leads.

It is expected that miscellaneous additional conference calls will be required throughout the course of the project. Burns & McDonnell has allocated an additional four man-hours per month, as a level of effort for this item throughout the proposed project duration.

7.0 Project Estimate – Substation and Project Management

The estimated cost for the substation project scope is illustrated in the table below.

SCOPE – FOREST TRAIL SOLAR OSP	FEE
Protections & Control Engineering and Design	\$50,228.00
Construction Support and As-Builts	\$8,736.00
Project Management	\$8,880.00
Travel and Expenses	\$1,000.00
TOTAL FEE: \$68,844	

7.1 Assumptions, Clarifications and Exceptions

1. This proposal outlines the scope of the work Burns & McDonnell will undertake in support of this project in its entirety. Any alterations, additions or deletions to the scope of the work would be executed with a mutually agreeable change order.
2. Burns & McDonnell assumes the distribution lines will be dedicated to the PV solar farms only and there is no additional tapped load.
3. Burns & McDonnell assumes there is enough space in the existing panels to allocate for the additional installation of the SEL-411L relays.
4. Burns & McDonnell assumes Power Quality Meter (PQM) and Phasor Measurement Unit (PMU) relaying is not required at this site.
5. Burns & McDonnell assume no revenue metering panel will be installed at Dinsmore.
6. The testing and commissioning plan is to be performed by others.
7. The construction work outage sequence is to be performed by others.
8. For estimating purposes, we assume that only a single review cycle will be required per stagegate design reviews with JEA.
9. Burns & McDonnell assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project; and additional studies to identify elements of the design criteria and standards will not be required.







PROPOSAL FOR

Protection & Control Design Services for the Caldwell Solar 230kV Switchyard

SUBMITTED TO
JEA

November 26, 2024



November 26, 2024

Mr. Ryan Heaton, PE
Manager, System Protection & Control Projects
JEA
225 North Pearl Street
Jacksonville, FL 32202

RE: Protection & Control Design Services for the Caldwell Solar 230kV Switchyard

Dear Mr. Heaton,

On behalf of Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell), thank you for this opportunity to provide a proposal for Protection & Control Design Services for the Caldwell Solar 230kV Switchyard. This proposal outlines the scope of the work we will undertake in support of this project in its entirety.

Burns & McDonnell is already engaged to perform the substation civil and physical design for the project, including the layout and specification for the pre-fabricated control enclosure. The protection and control scheme involves close coordination with the control house vendor; and this scope of work will streamline the Burns & McDonnell effort in support of the aggressive control house fabrication schedule.

We are prepared to start work on this exciting project immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,



Matthew Kapusta, PE
Regional Global Practice Manager
Transmission & Distribution Services
mkapusta@burnsmcd.com



Randy Koncelik, PE
Project Manager, Point of Contact
Transmission & Distribution Services
rjkoncelik@burnsmcd.com

1.0 Project Description

JEA has requested that Burns & McDonnell prepare a proposal and estimate to provide protection and control (P&C) engineering services for the new greenfield Caldwell 230kV switchyard to interconnect the planned Caldwell solar photovoltaic (PV) resource. The substation will have a 230kV, three-breaker ring bus, which will be connected to the Caldwell solar site. The existing 230kV CCCN-Brandy Branch 957 transmission line will be tapped to the new Caldwell substation 230kV bus. The requested in-service date for the project is September 30, 2026.

Burns & McDonnell will design and implement the transmission line protection, breaker failure and SCADA device schemes based on JEA's current standards. We will communicate with the solar site owner to coordinate P&C schemes up to the point of interconnection. Additionally, Burns & McDonnell will also implement an automation controller to collect statuses, controls and metering to interface with System Operation Control Center (SOCC).

We will engineer protection and control systems for the following:

- Two transmission lines at local and remote terminals
- Three circuit breakers with breaker failure contingency
- One gen-tie line to the solar PV collector yard
- New substation automation devices with integration of new relaying/controls

In addition, as a result of these above-mentioned system modifications, Burns & McDonnell will be responsible for settings at Caldwell and the JEA remote ends (Cecil Commerce Center North and Brandy Branch). Remote end drawing line name changes will also be required.

2.0 Required Information

Burns & McDonnell has identified key inputs to the engineering design process, which must be supplied by JEA as outlined below to meet the deliverable dates provided in this proposal.

Information type are as follows and will be required upon award unless otherwise noted:

- Remote end drawings files in MicroStation
- JEA standards and go-by drawings in MicroStation
- P&C CAD standards
- SCADA CAD standards
- Preferred standard calculation templates and design criteria
- System fault data/system Aspen model and existing transmission line information (prior to 60% design start)
- Critical clearing time requirements (prior to 60% design start)
- Relay settings template to be provided by JEA (prior to 60% design start)
- Vendor drawings (prior to 60% design start)

3.0 Protection and Control Scope of Work and Engineering Approach

This project includes a complete P&C package for the new 230kV Caldwell Station. A primary line differential and secondary line differential scheme will be used for the Caldwell Solar PV resource line. A primary line differential and secondary Permissive Overreach Transfer Trip (POTT) scheme will also be used for the Brandy Branch line and Cecil Commerce Center North 230kV lines.

Protection systems will be implemented with full redundancy. The project will utilize breaker control and breaker failure relay, with current supervision, from a bushing current transformer on the breakers. Should a breaker fail to trip within the allowable time setting, the associated breaker failure trip relay and associated lockout relay will trip and lock out adjacent breakers and remote breakers via transfer trip.

Award #1 - Regular Agenda Supporting Documents 8/21/2025

Major P&C Equipment

The following equipment will be required at the 230kV Caldwell switchyard:

- New panel
 - Install one Brandy Branch SEL-411L current line differential relaying and associated equipment in accordance with the latest JEA standard
 - Install one Brandy Branch SEL-421 POTT relaying and associated equipment in accordance with the latest JEA standard
 - Install one Shark meter and associated equipment in accordance with the latest JEA standard
 - Install one APP-601 and associated equipment in accordance with the latest JEA standard
- New panel
 - Install one CCC North SEL-411L current line differential relaying and associated equipment in accordance with the latest JEA standard
 - Install one CCC North SEL-421 POTT relaying and associated equipment in accordance with the latest JEA standard
 - Install one Shark meter and associated equipment in accordance with the latest JEA standard
 - Install one APP-601 and associated equipment in accordance with the latest JEA standard
- New panel
 - Install one 97985 25/51 SEL-451 relay and associated equipment in accordance with the latest JEA standard
 - Install one 86BF97985 breaker failure Lockout and associated equipment in accordance with the latest JEA standard
 - Install one 97985 52 control switch and associated equipment in accordance with the latest JEA standard
- New panel
 - Install one Caldwell PV SEL-411L current line differential relaying and associated equipment in accordance with the latest JEA standard
 - Install one Caldwell PV SEL-411L current line differential relaying and associated equipment in accordance with the latest JEA standard
 - Install one Shark meter and associated equipment in accordance with the latest JEA standard
 - Install one APP-601 and associated equipment in accordance with the latest JEA standard
- New panel
 - Install one 95779 25/51 SEL-451 relay and associated equipment in accordance with the latest JEA standard
 - Install one 86BF95779 breaker failure lockout and associated equipment in accordance with the latest JEA standard
 - Install one 95779 52 control switch and associated equipment in accordance with the latest JEA standard
 - Install one 95785 25/51 SEL-451 relay and associated equipment in accordance with the latest JEA standard
 - Install one 86BF95785 breaker failure lockout and associated equipment in accordance with the latest JEA standard
 - Install one 95785 52 control switch and associated equipment in accordance with the latest JEA standard
- New panel
 - Install two revenue meters and associated equipment in accordance with the latest JEA standard

Bill of Materials (BOM)

A master BOM table will be developed and tabularized to capture all material required for the switchyard design. BOM will specify if material will be provided by JEA, the construction contractor and the control equipment enclosure vendor.



3.1 SCADA Scope of Work and Engineering Approach

The SCADA design for the Caldwell Solar PV Gen-Tie line, Brandy Branch line and Cecil Commerce Center North 230kV lines will support a protection and control strategy with integrated SCADA infrastructure. SCADA systems will coordinate with the protection and control infrastructure to enable monitoring and control of the PV interconnect. Components such as RTUs, ethernet switches, GPS clocks and fault recorders will interconnect through the SCADA panel, supporting operational data acquisition and fault management. The design will account for the connectivity for current differential protection and RTU interconnections for the PV site at Caldwell, providing integration of protection, control and operational data.

Major SCADA Equipment

The following equipment will be required:

- Integration panel – key devices
 - RTAC-RTU (SEL-3555)
 - Ethernet switches (SEL-2741 or equivalent) for RTU and DFR connections
 - GPS clock (SEL-2488 or equivalent)
 - DFR computer and associated ethernet switch
 - Annunciator (SEL-2523)
 - DFR acquisition unit

4.0 P&C Deliverables

Burns & McDonnell will supply the following deliverables based on the provided milestones to JEA:

10% Design Submittal

- Protection single-line diagram

30% Design Submittal

- Latest version of all drawings submitted in the 10% submittal package
- Drawing index (P&C drawings only)
- A/C three-line diagram
- BOM/panel arrangement
- Construction description letter
- Preliminary circuit schedule

60% Design Submittal

- Latest version of all drawings submitted in the 30% submittal package
- A/C elementary diagrams
- D/C elementary diagrams and D/C schematic diagrams
- Logic diagrams
- Voltage drop in PDF format
- DFR point assignment sheets

90% Design Submittal

- Latest version of all drawings submitted in the previous submittal packages
- Cable pulling schedule
- Relay panel connection diagrams
- Equipment connection diagrams
- BOM
- Preliminary setting files and calculations

Award #1 - Regular Agenda Supporting Documents 8/21/2025

Issue for Construction (IFC) Package (100% Design Submittal)

- Comments from all stakeholders incorporated into design package
- Latest version of all drawings submitted, signed and sealed
- Complete BOM
- Final setting files and calculations

As-Built Package

The following items will be provided to JEA after receiving construction records and post-construction design verification:

- List of any construction changes
- Updated drawings based on redlines provided to Burns & McDonnell after construction

4.1 SCADA Deliverables

Burns & McDonnell will supply the following deliverables based on the provided milestones to JEA:

10% Design Submittal

- SCADA block diagram

30% Design Submittal

- Latest version of all drawings submitted in the 10% submittal package
- Drawing index (SCADA drawings only)
- BOM/panel layout
- Construction description letter

60% Design Submittal

- Latest version of all drawings submitted in the 30% submittal package
- D/C schematic diagrams

90% Design Submittal

- Latest version of all drawings submitted in the previous submittal packages
- SCADA panel connection diagrams
- BOM

Issue for Construction (IFC) Package (100% Design Submittal)

- Comments from all stakeholders incorporated into design package
- Latest version of all drawings submitted, signed and sealed
- Complete BOM

As-Built Package

The following items will be provided to JEA after receiving construction records and post-construction design verification:

- List of any construction changes
- Updated drawings based on redlines provided to Burns & McDonnell after construction

5.0 Construction Support

In-Office Construction Support

After issuance of the IFC package, Burns & McDonnell will remain available to support purchaser/final owner with review of contractor material submittals and technical support required to answer contractor requests for information related to the IFC package. Forty (40) hours of in-office support has been included in the estimate for these engineering services. During this time, requests for information (RFIs) from the contractor regarding the IFC package will be answered and contractor submittals will be reviewed.



Construction Site Visits

In addition to in-office construction support, Burns & McDonnell proposes to also conduct a site visit to site prior to energization. The trip is anticipated to include two days of on-site support including travel time for up to four engineers, two for SCADA and two for P&C.

Conformed to Construction Record (CCR) Documents

As part of the project closeout, CCR drawings will be developed. IFC drawings will be updated after receiving construction records provided by JEA. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents and drawings or otherwise clearly indicate any changes made and provide supporting information necessary to justify such changes. CCR drawings will not be sealed by a Burns & McDonnell professional engineer.

Upon completion of the CCR drawings, an electronic copy of the design related materials to close out the project will be provided. Included in this package will be the design criteria document and MicroStation files of all the CCR drawings.

Burns & McDonnell has included 60 hours to complete this effort and will complete the CCR drawings within a month after the completion of the construction.

6.0 Project Management

Burns & McDonnell's project manager will provide general project administration, budgeting, invoicing, change management, risk assessment and day-to-day management of the Burns & McDonnell effort.

Kick-Off Meeting

A project kick-off conference call will be scheduled following award of the project. The primary objective of this meeting will be to exchange requested information, review the project plan and build consensus for next steps. Some of the key discussion items will be as follows:

- Review work previously completed; and discuss objectives and expectations moving forward
- Identify project roles and responsibilities; and JEA communication lines and protocols
- Review scope of work, schedule and key project risks
- Identify and exchange information needed to perform the work

Project Review Meetings

In addition to the project kick-off meeting, Burns & McDonnell has also included project review meetings with JEA and key stakeholders as indicated below. These meetings will be held to review submitted deliverables, discuss comments, solicit feedback on each package and discuss the overall project status. Each meeting will be attended by at least two people from Burns & McDonnell. The following remote team's meetings are proposed, and anticipated to take up to two hours each:

- 30% P&C and SCADA design review meeting
- 60% P&C and SCADA design review meeting
- 90% P&C and SCADA design review meeting
- 100% P&C and SCADA design review meeting

Project Status Meetings

Burns & McDonnell will attend a weekly, one-hour conference call with the JEA project team to discuss progress, action items and issues for the duration of project work. Burns & McDonnell attendance for this meeting will include the project manager and engineering leads.

It is expected that miscellaneous additional conference calls will be required throughout the course of the project. Burns & McDonnell has allocated an additional four man-hours per month, as a level of effort for this item throughout the proposed project duration.

7.0 Project Estimate – Substation and Project Management

The estimated cost for the substation project scope is illustrated in the table below.

SCOPE – CALDWELL 230kV SWITCHYARD	FEE
P&C, SCADA and Settings Design	\$368,650.00
Construction Support	\$9,250.00
Project Management	\$23,625.00
Travel and Expenses	\$3,000.00
TOTAL FEE: \$404,525.00	

7.1 Assumptions, Clarifications and Exceptions

1. This proposal outlines the scope of the work Burns & McDonnell will undertake in support of this project in its entirety. Any alterations, additions or deletions to the scope of the work would be executed with a mutually agreeable change order.
2. Security requirements, design and equipment is to be provided by JEA. Space required for the security scope of work is to be accommodated in control house design.
3. SCADA setting files are to be performed by JEA.
4. The testing and commissioning plan is to be performed by others.
5. The construction work outage sequence is to be done by others.
6. We assume that the line current differential relaying for primary and secondary will be used on the solar interconnection line due to the proximity of the solar switchyard.
7. Burns & McDonnell has assumed that P&C and SCADA standards have been developed and can be utilized for the design of this project.
8. For estimating purposes, we assume that only a single review cycle will be required for vendor calculations, fabrication drawings and design reviews with JEA.
9. Burns & McDonnell assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project; and additional studies to identify elements of the design criteria and standards will not be required.
10. Panel wiring fabrication will start after the issuance of IFC drawings.
11. Burns & McDonnell assumes that phasor measurement unit and power quality meters are not required at this site.
12. Burns & McDonnell assumes that the solar interconnection information (indication and metering) will be performed via communication network.
13. Associated telecommunications scope of work, battery sizing and D/C calculations are to be included in a change order to the substation scope of work purchase order.



495 North Keller Road
Suite 300
Maitland, FL 32751
burnsmcd.com



PROPOSAL FOR

Protection & Control Design Services for the Miller Solar 230kV Switchyard

SUBMITTED TO
JEA

November 26, 2024



November 26, 2024

Mr. Ryan Heaton, PE
Manager, System Protection & Control Projects
JEA
225 North Pearl Street
Jacksonville, FL 32202

RE: Protection & Control Design Services for the Miller Solar 230kV Switchyard

Dear Mr. Heaton,

On behalf of Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell), thank you for this opportunity to provide a proposal for Protection & Control Design Services for the Miller Solar 230kV Switchyard. This proposal outlines the scope of the work we will undertake in support of this project in its entirety.

Burns & McDonnell is already engaged to perform the substation civil and physical design for the project, including the layout and specification for the pre-fabricated control enclosure. The protection and control scheme involves close coordination with the control house vendor; and this scope of work will streamline the Burns & McDonnell effort in support of the aggressive control house fabrication schedule.

We are prepared to start work on this exciting project immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,

A handwritten signature in black ink that reads "Matthew Kapusta".

Matthew Kapusta, PE
Regional Global Practice Manager
Transmission & Distribution Services
mkapusta@burnsmcd.com

A handwritten signature in black ink that reads "Randy Koncelik".

Randy Koncelik, PE
Project Manager, Point of Contact
Transmission & Distribution Services
rjkoncelik@burnsmcd.com

1.0 Project Description

JEA has requested that Burns & McDonnell prepare a proposal and estimate to provide protection and control (P&C) engineering services for the new greenfield Miller 230kV switchyard to interconnect the planned Miller solar photovoltaic (PV) resource, which will have a total net output of 74.9 MW in the summer and 40 MW in the winter. The project site is in the western area of JEA's service territory, east of JEA's Brandy Branch 230kV substation. The requested in-service date for the project is September 30, 2026.

Burns & McDonnell will design and implement the transmission line protection, breaker failure and SCADA device schemes based on JEA's current standards. We will communicate with the solar site owner to coordinate P&C schemes up to the point of interconnection. Additionally, Burns & McDonnell will also implement an automation controller to collect statuses, controls and metering to interface with System Operation Control Center (SOCC).

We will engineer protection and control systems for the following:

- Two transmission lines at local and remote terminals
- Three circuit breakers with breaker failure contingency
- One gen-tie line to the solar PV collector yard
- New substation automation devices with integration of new relaying/controls

In addition, as a result of these above-mentioned system modifications, Burns & McDonnell will be responsible for settings at Miller and the JEA remote ends (Brandy Branch and Normandy). Remote end drawing line name changes will also be required.

2.0 Required Information

Burns & McDonnell has identified key inputs to the engineering design process, which must be supplied by JEA as outlined below to meet the deliverable dates provided in this proposal.

Information type are as follows and will be required upon award unless otherwise noted:

- Remote end drawings files in MicroStation
- JEA standards and go-by drawings in MicroStation
- P&C CAD standards
- SCADA CAD standards
- Preferred standard calculation templates and design criteria
- System fault data/system Aspen model and existing transmission line information (prior to 60% design start)
- Critical clearing time requirements (prior to 60% design start)
- Relay settings template to be provided by JEA (prior to 60% design start)
- Vendor drawings (prior to 60% design start)

3.0 Protection and Control Scope of Work and Engineering Approach

This project includes a complete P&C package for the new 230kV Miller Station. A primary line differential and secondary line differential scheme will be used for the Miller Solar PV Gen-Tie line. A primary line differential and secondary Permissive Overreach Transfer Trip (POTT) scheme will also be used for the Brandy Branch line and Normandy 230kV lines.

Protection systems will be implemented with full redundancy. The project will utilize breaker control and breaker failure relay, with current supervision, from a bushing current transformer on the breakers. Should a breaker fail to trip within the allowable time setting, the associated breaker failure trip relay and associated lockout relay will trip and lock out adjacent breakers and remote breakers via transfer trip.

Major P&C Equipment

The following equipment will be required at the 230kV Miller switchyard:



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- New panel
 - Install one Brandy Branch SEL-411L current line differential relaying and associated equipment in accordance with the latest JEA standard
 - Install one Brandy Branch SEL-421 POTT relaying and associated equipment in accordance with the latest JEA standard
 - Install one Shark meter and associated equipment in accordance with the latest JEA standard
 - Install one APP-601 and associated equipment in accordance with the latest JEA standard
- New panel
 - Install one Normandy SEL-411L current line differential relaying and associated equipment in accordance with the latest JEA standard
 - Install one Normandy SEL-421 POTT relaying and associated equipment in accordance with the latest JEA standard
 - Install one Shark meter and associated equipment in accordance with the latest JEA standard
 - Install one APP-601 and associated equipment in accordance with the latest JEA standard
- New panel
 - Install one 975T2 25/51 SEL-451 relay and associated equipment in accordance with the latest JEA standard
 - Install one 86BF975T2 breaker failure lockout and associated equipment in accordance with the latest JEA standard
 - Install one 975T2 52 control switch and associated equipment in accordance with the latest JEA standard
- New panel
 - Install one Miller PV SEL-411L current line differential relaying and associated equipment in accordance with the latest JEA standard
 - Install one Miller PV SEL-411L current line differential relaying and associated equipment in accordance with the latest JEA standard
 - Install one Shark meter and associated equipment in accordance with the latest JEA standard
 - Install one APP-601 and associated equipment in accordance with the latest JEA standard
- New panel
 - Install one 988T1 25/51 SEL-451 Relay and associated equipment in accordance with the latest JEA standard
 - Install one 86BF988T1 Breaker Failure Lockout and associated equipment in accordance with the latest JEA standard
 - Install one 988T1 52 Control switch and associated equipment in accordance with the latest JEA standard
 - Install one 94088 25/51 SEL-451 Relay and associated equipment in accordance with the latest JEA standard
 - Install one 86BF94088 Breaker Failure Lockout and associated equipment in accordance with the latest JEA standard
 - Install one 94088 52 Control switch and associated equipment in accordance with the latest JEA standard
- New panel
 - Install two revenue meters and associated equipment in accordance with the latest JEA standard

Bill of Materials (BOM)

A master BOM table will be developed and tabularized to capture all material required for the switchyard design. BOM will specify if material will be provided by JEA, the construction contractor and the control equipment enclosure vendor.

3.1 SCADA Scope of Work and Engineering Approach

From a SCADA perspective, the design and implementation for the Miller Solar PV Gen-Tie line, Brandy Branch line and Normandy 230kV lines will support the protection and control strategy with integrated SCADA infrastructure.



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SCADA systems will coordinate with the protection and control infrastructure to enable monitoring and control of the PV interconnect. Components such as RTUs, ethernet switches, GPS clocks and fault recorders will interconnect through the SCADA panel, supporting operational data acquisition and fault management.

Major SCADA Equipment

The following equipment will be required:

- Integration panel – key devices
 - RTAC-RTU (SEL-3555)
 - Ethernet switches (SEL-2741 or equivalent) for RTU and DFR connections
 - GPS clock (SEL-2488 or equivalent)
 - DFR computer and associated ethernet switch
 - Annunciator (SEL-2523)
 - DFR acquisition unit

4.0 P&C Deliverables

Burns & McDonnell will supply the following deliverables based on the provided milestones to JEA:

10% Design Submittal

- Protection single-line diagram

30% Design Submittal

- Latest version of all drawings submitted in the 10% submittal package
- Drawing index (P&C drawings only)
- A/C three-line diagram
- BOM/panel arrangement
- Construction description letter
- Preliminary circuit schedule

60% Design Submittal

- Latest version of all drawings submitted in the 30% submittal package
- A/C elementary diagrams
- D/C elementary diagrams and D/C schematic diagrams
- Logic diagrams
- Voltage drop in PDF format
- DFR point assignment sheets

90% Design Submittal

- Latest version of all drawings submitted in the previous submittal packages
- Cable pulling schedule
- Relay panel connection diagrams
- Equipment connection diagrams
- BOM
- Preliminary setting files and calculations

Issue for Construction (IFC) Package (100% Design Submittal)

- Comments from all stakeholders incorporated into design package
- Latest version of all drawings submitted, signed and sealed
- Complete BOM
- Final setting files and calculations



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As-Built Package

The following items will be provided to JEA after receiving construction records and post-construction design verification:

- List of any construction changes
- Updated drawings based on redlines to Burns & McDonnell after construction

4.1 SCADA Deliverables

Burns & McDonnell will supply the following deliverables based on the provided milestones to JEA:

10% Design Submittal

- SCADA block diagram

30% Design Submittal

- Latest version of all drawings submitted in the 10% submittal package
- Drawing index (SCADA drawings only)
- BOM/panel layout
- Construction description letter

60% Design Submittal

- Latest version of all drawings submitted in the 30% submittal package
- D/C schematic diagrams

90% Design Submittal

- Latest version of all drawings submitted in the previous submittal packages
- SCADA panel connection diagrams
- BOM

Issue for Construction (IFC) Package (100% Design Submittal)

- Comments from all stakeholders incorporated into design package
- Latest version of all drawings submitted, signed and sealed
- Complete BOM

As-Built Package

The following items will be provided to JEA after receiving construction records and post-construction design verification:

- List of any construction changes
- Updated drawings based on redlines to Burns & McDonnell after construction

5.0 Construction Support

In-Office Construction Support

After issuance of the IFC package, Burns & McDonnell will remain available to support purchaser/final owner with review of contractor material submittals and technical support required to answer contractor requests for information related to the IFC package. Forty (40) hours of in-office support has been included in the estimate for these engineering services. During this time, requests for information (RFIs) from the contractor regarding the IFC package will be answered and contractor submittals will be reviewed.

Construction Site Visits

In addition to in-office construction support, Burns & McDonnell proposes to also conduct a site visit prior to energization. The trip is anticipated to include two days of on-site support, including travel time for up to four engineers.



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Conformed to Construction Record (CCR) Documents

As part of the project closeout, CCR drawings will be developed. IFC drawings will be updated after receiving construction records provided by JEA. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents and drawings or otherwise clearly indicate any changes made and provide supporting information necessary to justify such changes. CCR drawings will not be sealed by a Burns & McDonnell professional engineer.

Upon completion of the CCR drawings, an electronic copy of the design related materials to close out the project will be provided. Included in this package will be the design criteria document and MicroStation files of all the CCR drawings.

Burns & McDonnell has included 60 hours to complete this effort and will complete the CCR drawings within a month after the completion of the construction.

6.0 Project Management

Burns & McDonnell's project manager will provide general project administration, budgeting, invoicing, change management, risk assessment and day-to-day management of the Burns & McDonnell effort.

Kick-Off Meeting

A project kick-off conference call will be scheduled following award of the project. The primary objective of this meeting will be to exchange requested information, review the project plan and build consensus for next steps. Some of the key discussion items will be as follows:

- Review work previously completed; and discuss objectives and expectations moving forward
- Identify project roles and responsibilities; and JEA communication lines and protocols
- Review scope of work, schedule and key project risks
- Identify and exchange information needed to perform the work

Project Review Meetings

In addition to the project kick-off meeting, Burns & McDonnell has also included project review meetings with JEA and key stakeholders as indicated below. These meetings will be held to review submitted deliverables, discuss comments, solicit feedback on each package and discuss the overall project status. Each meeting will be attended by at least two people from Burns & McDonnell. The following remote team's meetings are proposed, and anticipated to take up to two hours each:

- 30% P&C and SCADA design review meeting
- 60% P&C and SCADA design review meeting
- 90% P&C and SCADA design review meeting
- 100% P&C and SCADA design review meeting

Project Status Meetings

Burns & McDonnell will attend a weekly, one-hour conference call with the JEA project team to discuss progress, action items and issues for the duration of project work. Burns & McDonnell attendance for this meeting will include the project manager and engineering leads.

It is expected that miscellaneous additional conference calls will be required throughout the course of the project. Burns & McDonnell has allocated an additional four man-hours per month, as a level of effort for this item throughout the proposed project duration.



7.0 Project Estimate – Substation and Project Management

The estimated cost for the substation project scope is illustrated in the table below.

SCOPE – CALDWELL 230kV SWITCHYARD	FEE
P&C, SCADA and Settings Design	\$368,650.00
Construction Support	\$9,250.00
Project Management	\$23,625.00
Travel and Expenses	\$3,000.00
TOTAL FEE: \$404,525.00	

7.1 Assumptions, Clarifications and Exceptions

1. This proposal outlines the scope of the work Burns & McDonnell will undertake in support of this project in its entirety. Any alterations, additions or deletions to the scope of the work would be executed with a mutually agreeable change order.
2. Security requirements, design and equipment is to be provided by JEA. Space required for the security scope of work is to be accommodated in control house design.
3. SCADA setting files are to be performed by JEA.
4. The testing and commissioning plan is to be performed by others.
5. The construction work outage sequence is to be done by others.
6. We assume that line current differential relaying for primary and secondary will be used on the solar interconnection line due to the proximity of the solar switchyard.
7. Burns & McDonnell has assumed that P&C and SCADA standards have been developed and can be utilized for the design of this project.
8. For estimating purposes, we assume that only a single review cycle will be required for vendor calculations, fabrication drawings and design reviews with JEA.
9. Burns & McDonnell assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project; and additional studies to identify elements of the design criteria and standards will not be required.
10. Panel wiring fabrication will start after the issuance of IFC drawings.
11. Burns & McDonnell assumes that phasor measurement unit and power quality meters are not required at this site.
12. Burns & McDonnell assumes that the solar interconnection information (indication and metering) will be performed via communication network.
13. Associated telecommunications scope of work, battery sizing and D/C calculations are to be included in a change order to the substation scope of work purchase order.





November 19, 2024

Darrell Hamilton
Manager – Transmission & Substation Projects
Jacksonville Energy Authority
225 North Pearl Street Jacksonville, FL 32202

Re: Georgia Street 13 kV Substation Improvement Project Proposal_R1

Dear Mr. Hamilton,

On behalf of Burns & McDonnell, thank you for this opportunity to provide a proposal for the engineering and design services for the Georgia Street 13 kV Substation Improvement Project. This proposal outlines the scope of the Work Burns & McDonnell will undertake in support of this project in its entirety.

This project is in-flight and requires a quick response to ramp up and support the project needs, which Burns & McDonnell is prepared to do. With an In-service Date of March 31, 2027, it is important that the design begins quickly to support the required in service date with the necessary deliverables.

We are prepared to start work on this exciting project immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,

A handwritten signature in black ink that reads "Mathew Kapusta". The signature is written in a cursive style.

Mathew Kapusta, PE
Regional Global Practice Manager
Transmission & Distribution Services

A handwritten signature in black ink that reads "Randy Koncelik". The signature is written in a cursive style.

Randy Koncelik
Project Manager / Point of Contact
Transmission & Distribution Services

PROPOSAL FOR GEORGIA STREET 69/13KV SUBSTATION IMPROVEMENT PROJECT

1.0 PROJECT DESCRIPTION

Jacksonville Electric Authority (JEA) has requested that Burns & McDonnell (BMcD) prepare a proposal and estimate to provide engineering services for a brownfield 13kV switchgear installation project at the Georgia Street substation. The project site is in the downtown area of JEA's service territory, near the Sports & Entertainment district. The requested in-service date for the project is March 31, 2027.

Substation design includes installing three (3) new 13kV enclosed switchgears ("West", "T1" and "T3") in the southern area of the Georgia St. substation yard. The final location of the new 13 kV enclosed switchgears will be determined based on the ultimate location of the distribution easement that JEA is seeking. Each 13kV standalone switchgear will contain five (5) 1200A feeder breakers and two (2) 3000A tie breakers. For both "T1" and "T3" switchgear, one (1) 3000A bank breaker will be installed to connect to each source. The 69/13kV Bank "T3" will be installed in the future (10 years). The switchgear is currently out to bid by JEA. This project will prepare the substation for its future installation and connection. The existing "T1" switchgear/enclosure will be removed, and the existing 13kV station service transformer will be relocated to the new "T1" switchgear. An additional 13kV, 1200A breaker will be installed in the new "T1" switchgear enclosure for the relocated station service transformer connection. The existing 13kV capacitor bank and manhole 642 will be removed.

For the "West", "T1" and "T3" switchgear source connections, six (6) 6" PVC conduits will be installed underground within the substation yard. For the future "T3" bank connection, the six (6) 6" PVC conduits will be installed North to a new manhole near the location of the future "T3" bank. The "West" switchgear will have no separate source and will be tied to both "T2" and "T3" switchgears. Each switchgear will be tied together with two (2) 3000A tie breakers.

Four (4) 6" PVC conduits will be installed from the existing "T2" switchgear east toward Franklin St., terminating in a new manhole to support the distribution's installation of Circuits 98 & 99 (manhole to be installed by JEA distribution) BMcD will work with JEA distribution for details on conduit design). Install six (6) new manholes "A", "B", "C", "D", "E", and "F" to the south of the new switchgear enclosures, inside of the property limits. Install six (6) 6" PVC conduits from each new switchgear (two per circuit) to the new manholes as shown on Figure 13 of the PSS document "PRF055-224-PD" dated 10/9/2023.

BMcD understands that only one (1) 69/13kV bank transformer in the substation can be deenergized at a time for construction outage purposes. Distribution will accommodate offloaded circuits by tying circuits to other sources in the area.

2.0 REQUIRED INFORMATION

BMcD has identified key inputs to the engineering design process which must be supplied by JEA as outlined below to meet the deliverable dates provided in this proposal.

Information Type (Needed by)

1. 10% Design Package including CAD files (by others)
2. System Fault Data and existing Transmission Line information (Prior to 60% design start)

3. Ground Resistivity measurements (Prior to 60% design start)
4. Geotechnical report (Prior to 90% design start)
5. Switchgear Structural Loading/Reactions information (Prior to 90% design start)
6. Required permits for the site provided by JEA.

3.0 SUBSTATION SCOPE OF WORK & ENGINEERING APPROACH

Ground Penetrating Radar

Due to a lack of below grade drawings and/or documents around the area of project work, BMcD will contract a third-party to procure Ground Penetrating Radar (GPR), which will be performed within the property fence. A budgetary allotment of \$15K has been included in the estimate for GPR subcontract. BMcD has also included time to secure the Boundary Survey (with legal descriptions) and Topographical Survey of the site. A budgetary allotment of \$5K has been included in the estimate for the Boundary and Topographical survey subcontract.

Geotechnical Investigation, Soft Dig and Soil Resistivity Testing Support

BMcD will prepare a geotechnical specification and scope of work inclusive of a boring location plan and soil resistivity specification that will be provided to JEA. JEA will secure a subcontractor to obtain ground resistivity measurements at the project site and provide these measurements to BMcD prior to 60% design start. JEA will also secure a geotechnical subcontractor to obtain boring samples and provide BMcD with a geotechnical report to support BMcD's foundation design(s) prior to the 90% design start.

BMcD will prepare specifications for potholing based on the results of the Ground Penetrating Radar and provide the specification to JEA. JEA will secure a subcontractor to pothole and provide a report showing location and depth of all utilities identified.

Detailed Substation Engineering

Electrical Design

Utilizing boundary/topographical surveys, GPR data and a Geotechnical Investigation report, BMcD will provide Physical engineering and design for the brownfield switchgear installation project including the following:

- Foundation detailed design
- AC Load study
- Grounding Study (in CDEGS) & Report
- Lightning Study (utilizing the rolling-sphere method in WinIGS)
- Lightning pole locations and heights (if required)
- Yard Light locations, ratings and heights (if required)

Foundation Design

Utilizing the geotechnical report and topographical survey, BMcD will provide design for all foundation selections within the substation fence based off of reactions provided by the switchgear vendor. Deep foundation design will employ L-Pile or MFAD software. BMcD will provide foundation calculations in PDF format without native files.

Bill of Materials (BOM)

A master BOM table will be developed and tabularized to capture all material required for the switchyard design. BOM will specify if material will be provided by JEA, the construction contractor and switchgear vendor.

4.0 SUBSTATION DELIVERABLES

BMCD will supply the following deliverables at the Milestones provided by JEA:

30% Design Submittal

- Substation Master Electrical Plan (General Arrangement)
 - With Survey for Reference

60% Design Submittal

- Electrical Plan
- Grounding Plan
- Conduit Plan
- Foundation Plan
- Low Voltage AC Diagram
- Lightning Protection Plan (if required)

90% Design Submittal

- Electrical Elevations and Details
- Grounding Details
- Conduit Details including Conduit Schedules
- Low voltage AC Diagram
- Foundation Details

Issue for Construction Package (100% Design Submittal):

- Comments from all stakeholders incorporated into design package
- Permits completed for Reference (by others if required)
- Construction Specifications (electrical and foundation specifications)
- Complete Bill of Materials (BOM)

As built Package:

The following items will be provided to JEA after receiving construction records and post-construction design verification.

- List of any Construction Changes
- Updated Drawings based on Redlines provided by construction
- Grounding Verification

5.0 CONSTRUCTION SUPPORT

In-Office Construction Support

After issuance of the IFC Package, Burns & McDonnell will remain available to support Purchaser/Final Owner with review of contractor material submittals and technical support required to answer contractor requests for information related to the IFC Package. 40 hours of in-office support has been included in the estimate for these engineering services. During this time, requests for information (RFIs) from the contractor regarding the IFC package will be answered and contractor submittals will be reviewed.

Construction Site Visits

In addition to in-office construction support, Burns & McDonnell proposes to also conduct a site visit to site prior to energization. The trip is anticipated to include two days of on-site support including travel time for up to two engineers.

Conformed to Construction Record Documents

As part of the project closeout, Conformed to Construction Record drawings will be developed. IFC drawings will be updated after receiving construction records provided by JEA. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents, and drawings or otherwise clearly indicate any changes made and provide supporting information necessary to justify such changes. Conformed to Construction Record drawings will not be sealed by a Burns & McDonnell Professional Engineer.

Upon completion of the Conformed to Construction Record drawings, an electronic copy of the design related materials to close out the Project will be provided. Included in this package will be the design criteria document and AutoCAD files of all the Conformed to Construction Record drawings.

Burns & McDonnell has included 40 hours to complete this effort and will complete the Conformed to Construction Record drawings within a month after the completion of the construction.

6.0 PROJECT MANAGEMENT

Burns & McDonnell's Project Manager will provide general project administration, budgeting, invoicing, change management, risk assessment, and day-to-day management and coordination of the Burns & McDonnell effort.

PROJECT MEETINGS

Kickoff Meeting

A project kickoff conference call will be scheduled following award of the project. The primary objective of this meeting will be to exchange requested information, review the project plan and build consensus for next steps. Some of the key discussion items will be:

- Review work previously completed, and discuss objectives and expectations going forward
- Identify project roles and responsibilities and JEA communication lines and protocol
- Review scope of work, schedule, and key project risks
- Identify and exchange information needed to perform the work

Project Review Meetings

Aside from the Project Kickoff Meeting, Burns & McDonnell has also included project review meetings with JEA and key stakeholders as indicated below. These meetings will be held to review submitted deliverables, discuss comments, solicit feedback on each package, and discuss the overall project status. Each meeting will be attended by at least two people from Burns & McDonnell. The following remote Team's meetings are proposed, and anticipated to take up to 2 hours each:

- 30% Physical Design Review Meeting
- 60% Physical Design Review Meeting

- 90% Physical Design Review Meeting
- 100% Physical Design Review Meeting

Project Status Meetings

Burns & McDonnell will attend a weekly, one-hour conference call with the JEA project team to discuss progress, action items, and issues for the duration of project work. Burns & McDonnell attendance for this meeting will include the Project Manager and engineering leads.

It is expected that miscellaneous additional conference calls will be required throughout the course of the project. Burns & McDonnell has allocated an additional four (4) man-hours per month as level of effort for this item throughout the proposed project duration.

7.0 PROJECT ESTIMATE – SUBSTATION AND PROJECT MANAGEMENT

The estimated cost for the substation project scope is shown in the table below.

GEORGIA STREET 13 KV SUBSTATION ESTIMATE	
SCOPE	COST
SUBSTATION DESIGN	\$ 255,894
DESIGN SUPPORT	\$ 44,100
CONSTRUCTION SUPPORT	\$ 65,012
SCOPE ADJUSTMENTS	\$ 35,092
PROJECT MANAGEMENT	\$ 24,648
SUBCONTRACTS	\$ 22,000
TRAVEL & EXPENSES	\$ 4,750
TOTAL PROJECT	\$ 451,496

ASSUMPTIONS AND CLARIFICATIONS

- 1) This proposal outlines the scope of the Work Burns & McDonnell will undertake in support of this project in its entirety. Any alterations, additions or deletions to the scope of the Work would be executed with a mutually agreeable change order.
- 2) BMCD has not included hours for substation siting and grading activities, or drainage calculations.

- 3) BMcD has included hours for developing impervious calculations to support JEA's permitting efforts. BMcD has not included hours for permitting.
- 4) BMcD has not included hours for conducting an Arc Flash study, lighting study, developing a NERC/CIP report, conducting Harmonic and VAR/Voltage studies, or conducting a Fault study (including high/low system buses or collector system contributions).
- 5) BMcD has not included hours for the development of the Protection and Controls (P&C) scope. Panel front views, panel layout, protection schemes and relay panel wiring diagrams are provided by others.
- 6) BMcD has included hours for survey activities. It is anticipated that a boundary and topographical survey will be required. BMcD will hire a subcontractor to complete these activities.
- 7) BMcD has included hours for supporting JEA procuring subsurface exploration and geotechnical report, including providing boring locations and specifications.
- 8) BMcD has not included hours for field activities associated with subsurface exploration or compilation of a geotechnical report.
- 9) BMcD has not included hours for developing any drawings related to environmental permitting other than specifically listed in this proposal.
- 10) BMcD has not included hours for supporting easement review and real estate acquisition.
- 11) BMcD has assumed that Substation standards have been developed and can be utilized for the design of this project.
- 12) For estimating purposes, it has been assumed that only a single review cycle will be required for vendor calculations, fabrication drawings and design reviews with JEA.
- 13) BMcD assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project and additional studies to identify elements of the design criteria and standards will not be required.
- 14) BMcD has included 124 hours at a level 13 for additional miscellaneous support that may be requested by JEA outside of the scope of this proposal.



PROPOSAL FOR

**Georgia Street Substation - Transformer “T1”
Replacement Project**

Contract # JEA11972

**SUBMITTED TO
JEA**

June 11, 2025



June 11, 2025

Mr. Darrell Hamilton
Manager – Transmission & Substation Projects
JEA
225 North Pearl Street
Jacksonville, FL 32202

RE: Georgia Street Substation – Transformer “T1” Replacement Project Scope

Dear Mr. Hamilton,

On behalf of Burns & McDonnell, thank you for this opportunity to provide a proposal for the engineering and design services for replacing the 69-13.2kV Power Transformer “T1” at the Georgia Street Substation. This proposal outlines the Scope of the Work Burns & McDonnell will undertake in support of this project in its entirety.

We are prepared to start work on this exciting project immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,



Matthew Kapusta, PE
Director of Operations, Florida
Transmission & Distribution Services
mkapusta@burnsmcd.com



Randy Koncelik, PE
JEA Account Manager
Transmission & Distribution Services
rjkoncelik@burnsmcd.com

Cc: Spencer Hamilton, JEA Electric Systems Engineer

1.0 Project Description

JEA has requested that Burns & McDonnell (BMcD) prepare a proposal and estimate to provide engineering services for a brownfield project at the Georgia Street Substation. The Scope of the Work in this proposal is to replace the existing 69-13.2kV “T1” Power Transformer. To accommodate the new transformer installation, BMcD will also design a new transformer foundation and oil containment system. The project site is in the downtown area of JEA’s service territory, near the Sports & Entertainment district.

2.0 Required Information

BMcD has identified key inputs to the engineering design process which must be supplied by JEA as outlined below to meet the deliverable dates provided in this proposal.

Information Type (Needed by)

1. New ‘T1’ Power Transformer ratings (10% design)
2. New ‘T1’ Power Transformer final vendor drawings (30% design)
3. Site topographical survey (prior to 30% design start)
4. Geotechnical and Soil Resistivity test reports (Prior to 60% design)
5. Existing ‘T1’ transformer foundation and oil containment detail drawings (prior to 60% design start)

3.0 Substation Scope of Work & Engineering Approach

Permitting Support

BMcD understands that JEA will appoint the permitting leads that will be responsible for all tasks associated with their corresponding functions (identification of exhibits, filing of permits, interaction with jurisdictional agencies, etc.). These leads will be responsible for identifying the required drawings to support their respective processes and requesting such drawings. BMcD will act as support throughout the permitting process by supplying the required engineering exhibit drawings identified by the respective leads.

Detailed Substation Engineering

Electrical and Structural Design

Burns & McDonnell will provide physical engineering and design services for the transformer replacement project including the following:

- New Transformer Foundation Location and Detailed Design
- New Oil Containment Location and Detailed Design
- Electrical Elevations and Detail(s)
- Conduit Layout and Detail(s)
- Grounding Layout and Detail(s)

Foundation Design

Utilizing the geotechnical report and topographical survey (both provided by others), BMcD will provide a design for the transformer foundation. BMcD will provide foundation calculations in PDF format without native files.

Bill of Materials (BOM)

A master BOM table will be developed and tabularized to capture all material required for the design. BOM will specify if material will be provided by JEA and construction contractor.

4.0 Substation Deliverables

Burns & McDonnell will supply the following deliverables based on the project Scope of Work, including updating existing drawings:

30% Design Submittal

- Single Line Diagram(s) with Equipment Ratings
- Switchyard General Arrangement
 - Included Topographic Survey for Reference (provided by others)

60% Design Submittal

- Electrical Plan
- Grounding Plan
- Conduit Plan
- Foundation Plan

90% Design Submittal

- Electrical Elevations and Details
- Grounding Details
- Conduit Details including Conduit Schedules
- Updated low voltage AC Diagram (as required)
- Foundation Details
- Oil Containment Plan and Details

Issue for Construction Package (100% Design Submittal)

- Comments from all stakeholders incorporated into design package
- Permits completed for Reference (by others)
- Construction Specifications (electrical and foundation specifications)
- Complete Bill of Materials (BOM)

As-Built Package

The following items will be provided to JEA after receiving construction records and post-construction design verification.

- List of any Construction Changes
- Updated Drawings based on Redlines provided by construction
- Grounding Verification

5.0 Construction Support

Burns & McDonnell will provide construction support services to JEA during the transformer installation including the following:

In-Office Construction Support

After issuance of the IFC Package, Burns & McDonnell will remain available to support Purchaser/Final Owner with review of contractor material submittals and technical support required to answer contractor requests for information related to the IFC Package. Four (4) hours of in-office support has been included in the estimate for engineering services. During this time, requests for information (RFIs) from the contractor regarding the IFC package will be answered and contractor submittals will be reviewed.

Construction Site Visits

In addition to in-office construction support, Burns & McDonnell proposes to also conduct a site visit to site prior to energization. The trip is anticipated to include two days of on-site support including travel time for up to two engineers.

Conformed to Construction Record Documents

As part of the project closeout, Conformed to Construction Record drawings will be developed. IFC drawings will be updated after receiving construction records provided by JEA. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents, and drawings or



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otherwise clearly indicate any changes made and provide supporting information necessary to justify such changes. Conformed to Construction Record drawings will not be sealed by a Burns & McDonnell Professional Engineer.

Upon completion of the Conformed to Construction Record drawings, an electronic copy of the design related materials to close out the Project will be provided. Included in this package will be the design criteria document and AutoCAD files of all the Conformed to Construction Record drawings.

Burns & McDonnell has included six (6) hours to complete this effort and will complete the Conformed to Construction Record drawings within a month after the completion of the construction.

Project Management

Burns & McDonnell's project manager will provide general project administration, budgeting, invoicing, change management, risk assessment and day-to-day management of the Burns & McDonnell effort including the following:

PROJECT MEETINGS

Project Review Meetings

Burns & McDonnell has included project review meetings with JEA and key stakeholders as indicated below. These meetings will be held to review submitted deliverables, discuss comments, solicit feedback on each package, and discuss the overall project status. Each meeting will be attended by at least two people from Burns & McDonnell. The following remote Team's meetings are proposed, and anticipated to take up to one (1) hour each:

- 30% Physical Design Review Meeting
- 60% Physical Design Review Meeting
- 90% Physical Design Review Meeting
- 100% Physical Design Review Meeting

Project Status Meetings

Burns & McDonnell will attend a bi-weekly, one-hour conference call with the JEA project team to discuss progress, action items, and issues for the duration of project work. Burns & McDonnell attendance for this meeting will include the Project Manager and engineering leads.

It is expected that miscellaneous additional conference calls will be required throughout the course of the project. Burns & McDonnell has allocated an additional one (1) hour per month as level of effort for this item throughout the proposed project duration.

6.0 Project Schedule & Estimate

The BMcD proposed project schedule for the Scope of Work is shown in the table below. These dates are based solely on providing the Scope of Work listed in the Project Description (Section 1.0). The project schedule dates below are subject to change as a result of changes to the project Scope of Work or in the event BMcD receives the Required Information (Section 2.0) beyond the need-by dates.

TRANSFORMER REPLACEMENT PROJECT - PROPOSED SCHEDULE	DATE
Project Kick-off Meeting	6/24/25
IFC Submittal	11/18/25
Construction Start	02/04/26*
In-Service	12/02/26*

*Subject to change based on owner's schedule and equipment availability



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The estimated cost for the transformer replacement project Scope of Work is listed in the table below. The project schedule estimate below is subject to change in the event of changes to the project Scope of the Work.

TRANSFORMER REPLACEMENT PROJECT - ESTIMATE		FEE
Substation Design		\$80,800.00
Design & Construction Support		\$6,300.00
Project Management		\$4,800.00
Travel & Expenses		\$2,500.00
		TOTAL FEE: \$94,400.00

7.1 Assumptions, Clarifications and Exceptions

1. This proposal outlines the Scope of the Work Burns & McDonnell (BMcD) will undertake in support of this project in its entirety. Any alterations, additions, or deletions to the Scope of the Work would be executed with a mutually agreeable change order.
2. BMcD assumes a geotechnical investigation and final report will be completed by others to support the design & engineering services of the project's Scope of Work.
3. BMcD has not included hours for construction methods and sequencing for the transformer replacement and assumes this is not within the project Scope of Work (performed by others).
4. BMcD has not included hours for conducting an Arc Flash study, lighting study, lightning protection study, grounding study, developing a NERC/CIP report, conducting Harmonic and VAR/Voltage studies, or conducting a Fault study (including high/low system buses or collector system contributions).
5. BMcD has not included hours for any underground transmission cable design for the project's Scope of Work.
6. BMcD has not included hours for substation site design, siting, grading activities, stormwater and drainage calculations.
7. BMcD has not included hours for obtaining any permit that may be required for the project's Scope of Work.
8. BMcD has not included hours for any SPCC updates that may be required for the project's Scope of Work.
9. BMcD has not included hours for any boundary or topographical survey activities.
10. BMcD has not included hours for developing any drawings related to vegetation management.
11. BMcD has not included hours for developing any drawings related to environmental permitting.
12. BMcD has not included hours for supporting easement review and real estate acquisition.
13. BMcD has assumed that Substation Standards have been developed and can be utilized for the design of this project.
14. For estimating purposes, it has been assumed that only a single review cycle will be required for vendor calculations, fabrication drawings and BMcD design reviews by JEA.
15. BMcD assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project and additional studies to identify elements of the design criteria and standards will not be required.
16. BMcD has not included hours for material procurement, which is outside the scope of this project.
17. The pricing contained in the proposal does NOT include impacts on, including but not limited to, cost and schedule, that may occur as a result of new tariffs or other executive actions imposed on or after January 20, 2025.





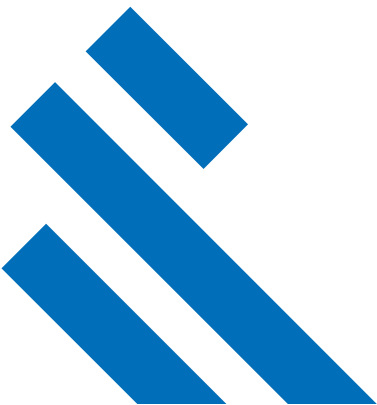
PROPOSAL TO PROVIDE

**Engineering and Design services for the Miller Solar 230 kV
Switchyard, Interconnect and Generation Tie-Line**

SUBMITTED TO:

Jacksonville Energy Authority (JEA)

September 5, 2024





September 5, 2024

Darrell Hamilton
Manager – Transmission & Substation Projects
Jacksonville Energy Authority
225 North Pearl Street Jacksonville, FL 32202

Re: Miller 230 kV Solar Switchyard, Interconnect and Generation Tie Line Proposal

Dear Mr. Hamilton,

On behalf of Burns & McDonnell, thank you for this opportunity to provide a proposal for the engineering and design services for the Miller 230 kV Solar Switchyard, Interconnect and Generation Tie-line. This proposal outlines the scope of the Work Burns & McDonnell will undertake in support of this project in it's entirety.

This project has very time-sensitive and challenging needs, which Burns & McDonnell is prepared to meet. With an in-service Date of September 30, 2026, it is important that the design begins quickly to support the required in service date with necessary deliverables to support JEA with the procurement of long lead material, identification of the appropriate Point of Interconnection (POI), location of the Switchyard and to support JEA's steel packager, Distran.

BMcD has a long history of designing similar Solar Interconnection Substations for solar developers, including FRP, throughout Florida and has a long standing relationship with Distran as well. Our knowledge and experience in this area will be a benefit as we ramp up to support this effort.

We are prepared to start work on this exciting project immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,

A handwritten signature in blue ink, appearing to read "Richard D. Mahaley".

Richard D. Mahaley
Senior Vice President
Florida Region

A handwritten signature in black ink, appearing to read "Randy Koncelik".

Randy Koncelik
Project Manager / Point of Contact
Transmission & Distribution Services

PROPOSAL FOR MILLER 230KV SOLAR SWITCHYARD, GENERATION TIE & INTERCONNECTION

1.0 PROJECT DESCRIPTION

Jacksonville Electric Authority (JEA) has requested that Burns & McDonnell (BMcD) prepare a proposal and estimate to provide engineering services to design a new 230kV interconnection switchyard and a transmission line interconnection from the existing Brandy Branch – Normandy 230kV line, Circuit 940, to the proposed Miller 230kV switchyard, as well as the generation tie in line from the proposed Miller Switchyard to the customer’s Solar Photovoltaic Resource. The project site is approximately located in the western area of JEA’s service territory near Baldwin, FL. The requested in-service date for the project is September 30, 2026.

The switchyard design includes an open-air, 3-position ring bus configuration 230kV switchyard, with a 230kV bus buildout that will accommodate two (2) new 230kV/26kV 50MVA load serving power transformers and three (3) 26kV breakers along with a 26kV cap bank on each Transformer bus. The new Miller 230kV Switchyard will have one (1) 230kV interconnection line connection to the customer’s Solar Photovoltaic Resource and (2) 230kV transmission line connections with an “in-and-out” connection to JEA’s Brandy Branch – Normandy 230kV line.

The transmission line design includes the installation of eight (8) proposed transmission line structures, including two (2) three-way by-pass structures to mitigate service outage time of the existing Brandy Branch – Normandy 230kV Line. The proposed cable types of the design are assumed to reflect current installation types on the existing Brandy Branch – Normandy 230kV line. The proposed tie-in transmission line length is still to be determined and will be finalized once the POI and the switchyard location is established. It is also anticipated that the design of two (2) proposed transmission structures will be required for the generation tie-in line. Pricing for both the interconnection and generation tie-in have been included and broken out separately.

BMcD will work with JEA to understand the outage requirements and will base a design to align with those requirements for both the switchyard and Substation.

2.0 REQUIRED INFORMATION

BMcD has identified key inputs to the engineering design process which must be supplied by JEA as outlined below to meet the deliverable dates provided in this proposal.

Information Type (Needed by)

Switchyard:

1. Major Equipment Ratings (Prior to 10% design start)
2. Switchyard and Overall Site/Grading Design Package in DWG format (Prior to 60% design start)
3. Geotechnical and Soil Resistivity Report (Prior to 30% design start)
4. Panel front views and panel layout from JEA System Protection and Control Project (SPCP) team (Prior to 30% design start)
5. Site Topographical Survey (Prior to 30% design start)

6. Site Boundary survey with legal descriptions of the proposed site (Prior to 30% design start)
7. System Fault Data and existing transmission line information (Prior to 30% design start)
8. Environmental and wetland delineation surveys (Prior to 60% design start)

Transmission Line:

9. Pre-construction Survey Data in LiDAR PLS-CADD .bak file format (Prior to Kick-Off Meeting)
10. Georeferenced ROW in DXF format (Prior to 30% design start)
11. Geotechnical Report (Prior to 60% design start)
12. Post-Construction Survey Data in LiDAR PLS-CADD .bak file format (after project energization)

3.0 SUBSTATION SCOPE OF WORK & ENGINEERING APPROACH

Preliminary Engineering

BMcD will prepare a project specific design criteria document for JEA review and approval, which will outline the design parameters for the project based on industry standards and project specific requirements. Specific items that are covered in the design criteria document include:

- Codes and Criteria (NEC, NESC, IEEE, & ASCE)
- Electrical Clearances and BIL rating (NESC)
- Structures and Loading Criteria

Surveying, Site Design and Permitting Support

BMcD understands that third parties will be appointed as the Survey, Site Design, and Permitting leads that will be responsible for all tasks associated with their corresponding functions (identification of exhibits, providing, providing site design packages, filing of permits, interaction with jurisdictional agencies, etc.). These leads will be responsible for identifying the required drawings to support their respective processes and requesting such drawings. BMcD will act as support throughout the surveying, site design, and permitting processes for the switchyard by supplying the required engineering exhibit drawings identified by the respective leads. BMcD will create the required drawings and supply them to the JEA Engineering Lead for dissemination to the proper parties. The expected deliverables for this effort include General location plan, and other drawings and specifications required for permitting efforts that are already developed from the engineering packages being generated as identified in section 4.0 of this proposal. BMcD has included 15 hours to support these efforts.

Geotechnical Investigation

BMcD will prepare a geotechnical specification and scope of work inclusive of a boring location plan and soil resistivity specification that will be provided to JEA. JEA, will secure a geotechnical subcontractor to obtain the borings and provide BMcD with a geotechnical report to support BMcD's design prior to the 30% design start.

Detailed Substation Engineering

Electrical Design

Utilizing a site design package provided by others, BMcD will provide Physical engineering and design for the new 230kV switchyard including the following:

- 230kV Bus Configuration/Layout
- 230kV Equipment Locations
- Foundation and Fence/Gates Locations
- Foundation detailed design
- 230kV Support Structure and Lightning pole (if required) locations
- Electrical elevation and detail drawings
- Control Building Location
- Control Building Layout
- AC /DC Load studies
- Grounding study in CDEGS or WinIGS
- Grounding report
- Lightning Study utilizing the rolling-sphere method in WinIGS
- Conduit and Cable Trench Layout
- Grounding Layout and Details
- Yard Light Locations

Foundation Design

Utilizing the geotechnical report, site/grading design, and topographical survey (all provided by others), BMcD will provide design for all foundation selections within the switchyard fence based off of reactions provided by Distran. Deep foundation design will employ L-Pile or MFAD software. BMcD will provide foundation calculations in PDF format without native files. BMcD will provide design information to JEA to allow Distran to size the anchor bolts.

Bill of Materials (BOM)

A master BOM table will be developed and tabularized to capture all material required for the switchyard design. BOM will specify if material will be provided by JEA, the construction contractor and Distran.

4.0 SUBSTATION DELIVERABLES

BMcD will supply the following deliverables at the Milestones provided by JEA:

10% Design Submittal

- Single Line with Equipment Ratings

30% Design Submittal

- Switchyard General Arrangement
 - Included Survey and Site Design for Reference (provided by others)

60% Design Submittal

- Electrical Plan
- Grounding Plan
- Conduit Plan

- Foundation Plan
- Control House Plans
- Low Voltage AC Diagram
- Lightning Protection Plan

90% Design Submittal

- Electrical Details
- Grounding Details
- Conduit Details including Conduit Schedules
- Low voltage AC Diagram
- Control House Details
- Foundation Details
- Fencing Details

Issue for Construction Package (100% Design Submittal):

- Comments from all stakeholders incorporated into design package
- Permits completed for Reference (by others)
- Construction Specifications (electrical and foundation specifications)
- Complete Bill of Materials (BOM)

As built Package:

The following items will be provided to JEA after receiving construction records and post-construction design verification.

- List of any Construction Changes
- Updated Drawings based on Redlines provided by construction
- Grounding Verification

5.0 TRANSMISSION LINE SCOPE OF WORK & ENGINEERING APPROACH

Preliminary Engineering

BMcD will coordinate with JEA on developing a project specific design criteria document, which will outline the design parameters for the project based on industry standards and project specific requirements. Specific items that are covered in the design criteria document include:

- Codes and Criteria (NESC, IEEE, & ASCE)
- Industry Standard Code (RUS)
- Electrical Clearances
- Structures and Loading Criteria

Routing, Siting, FAA, and Permitting Support

BMcD assumes third parties will be appointed as the routing, siting, and permitting leads and be responsible for all tasks associated with their corresponding functions (identification of exhibits, filing of permits, interaction with jurisdictional agencies, etc.). These leads will be responsible for identifying the required drawings to support their respective processes and requesting such drawings. BMcD will act as support throughout the routing, siting, and permitting processes by supplying the required engineering exhibit drawings identified by the respective leads. BMcD will create the required drawings and supply them to the JEA Engineering Lead for dissemination to the proper parties. The expected deliverables for this effort includes the FAA filing, structure profile

drawing and other drawings and specifications required for permitting efforts that are already developed from the engineering packages being generated as identified in section 6.0 of this proposal. BMcD has included 20 hours to support these efforts.

Detailed Engineering (Final Package and Issue for Construction)

PLS-CADD Modeling and Line Design

Utilizing the LiDAR PLS-CADD model provided by JEA, BMcD will design the line as described herein. Initial line design will include Method 1 structures to develop line spotting and structure geometry based on project design clearances. Once structure designs have been determined, Method 4 structures will be modeled, and structural capacity checked in PLS-POLE. Conductors will be strung, and clearances checked to confirm that the line can be operated at the appropriate maximum operating temperature per JEA standards for conductors.

In general, structure spotting will be optimized based on structure, wire, and right-of-way constraints.

Geotechnical Investigation

BMcD will prepare a geotechnical specification and scope of work inclusive of a boring location plan that will be provided to JEA. JEA will secure a geotechnical subcontractor to obtain the borings and provide BMcD with a geotechnical report to support BMcD's design prior to the 30% design start.

Structure Design

Wherever possible, spun concrete monopoles will be the basis of design. When strength or size requirements dictate, engineered steel poles may be utilized. For the purposes of this proposal, it is anticipated that two (2) single-circuit engineered steel monopole structure will need to be developed for the interconnection line and one (1) single-circuit engineered steel monopole structure for the generation tie-in line (spun concrete will be evaluated for feasibility). Selected structure framing will be consistent with JEA engineering standards. Six (6) structures for the interconnection and one (1) structure for the generation tie-in line are anticipated to be light duty concrete structures that will not be design specific. Guy and anchor design will be assessed on the light duty concrete structures as needed for the transmission line design.

Foundation Design

Utilizing the geotechnical report, site/grading design, and topographical survey (all provided by others), BMcD will provide design for all foundations based off of reactions provided by structure supplier. Deep foundation design will employ L-Pile or MFAD software. BMcD will provide foundation calculations in PDF format without native files. BMcD will provide design information to JEA to allow structure supplier to size the anchor bolts. It is expected that Engineered steel poles will utilize self-supporting drilled pier foundations. Light duty structures will utilize direct embed foundations with crushed #57 backfill wherever possible. Concrete backfill will be utilized only if required.

Hardware Design & Bill of Materials (BOM)

BMcD will develop hardware assembly details based on JEA and industry requirements for JEA review and approval. Structure assembly drawings will be developed for each unique structure design. Hardware assembly drawings will be developed on an as-needed basis in the event JEA standard assemblies are not applicable. A master BOM table will be developed and tabularized to capture all material required for the line design.

Project Closeout & Conformed to Construction Records

As part of the project closeout, Conformed to Construction Record drawings will be developed based on redlined drawings provided by JEA and the construction contractor. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents, and drawings. Once BMcD receives the redlined drawings, the engineering deliverables will be reviewed and revised as required.

6.0 TRANSMISSION LINE DELIVERABLES

BMcD will supply the following deliverables at the Milestones provided by JEA:

10% Design Submittal

- LiDAR & Survey Specification
- Establish Geotechnical Investigation scope.
- Project Design Criteria Document – Issue for Review

30% Design Submittal

- Determination of all wire types
- Finalized Geotechnical Investigation scope and subcontractor.
- 30% PLS-CADD File (Method 1 structure models used for structure configuration and spotting only)
- Finalized Project Design Criteria Document
- Determination of Long Lead Bill of Material
- 30% Transmission Line Design Drawing Package
 - Preliminary Plan and Profiles
 - Index Drawing
 - Preliminary Structure Framing Drawings
 - Hardware Assembly Drawings
 - Bill of Materials
- Preliminary EMF Report

60% Design Submittal

- 60% PLS-CADD File (Method 4 “Dummy” structure models utilized for structure configuration, spotting)
- 60% Transmission Line Design Drawing Package
 - Preliminary Plan and Profiles
 - Index Drawing
 - Preliminary Structure Framing Drawings
 - Hardware Assembly Drawings
 - Construction Drawings (Staking, Damper Placement, Phasing)
 - Bill of Materials
- Finalized Structure Load Design

90% Design Submittal

- 90% PLS-CADD File (Method 4 Vendor Supplied structure models utilized for structure capacity confirmation)
- 90% Transmission Line Design Drawing Package

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- Plan and Profiles
- Index Drawing
- Structure Framing Drawings
- Hardware Assembly Drawings
- Construction Drawings (Staking, Damper Placement, Phasing, Sag Charts)
- Bill of Materials
- Finalized EMF Report
- Foundation Design & Drawings

Issue for Construction Package:

IFC package will consist of the following in addition to all finalized items from the 90% package:

- Final Engineering Transmittal

The electronic documents, including the PLS-CADD model will be provided to JEA with the issuance of the IFC Package.

As built Package:

The following items will be provided to FRP after receiving construction records.

- As-Built Plan & Profiles (Auto-CAD)
- Other Reference Plan & Profile Drawings (Auto-CAD)
- PLS-CADD Backup files with As-Built information incorporated
- PLS-Pole Backup files with As-Built information incorporated
- Grounding Verification
- List of construction changes

7.0 CONSTRUCTION SUPPORT

In-Office Construction Support

After issuance of the IFC Package, Burns & McDonnell will remain available to support Purchaser/Final Owner with review of contractor material submittals and technical support required to answer contractor requests for information related to the IFC Package. 150 hours of in-office support for both the substation and T-Line has been included in the estimate for engineering services. During this time, requests for information (RFIs) from the contractor regarding the IFC package will be answered and contractor submittals will be reviewed.

Construction Site Visits

In addition to in-office construction support, Burns & McDonnell proposes to also conduct a site visit to site prior to energization. The trip is anticipated to include two days of on-site support including travel time for up to two engineers.

Conformed to Construction Record Documents

As part of the project closeout, Conformed to Construction Record drawings will be developed. IFC drawings will be updated after receiving construction records provided by JEA. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents, and drawings or otherwise clearly indicate any changes made and provide supporting information necessary to justify such changes. Conformed to Construction Record drawings will not be sealed by a Burns & McDonnell Professional Engineer.

Upon completion of the Conformed to Construction Record drawings, an electronic copy of the design related materials to close out the Project will be provided. Included in this package will be the design criteria document and AutoCAD files of all the Conformed to Construction Record drawings.

Burns & McDonnell has included 40 hours to complete this effort and will complete the Conformed to Construction Record drawings within a month after the completion of the construction.

8.0 PROJECT MANAGEMENT

Burns & McDonnell's Project Manager will provide general project administration, budgeting, invoicing, change management, risk assessment, and day-to-day management and coordination of the Burns & McDonnell effort.

PROJECT MEETINGS

Kickoff Meeting

A project kickoff conference call will be scheduled following award of the project. The primary objective of this meeting will be to exchange requested information, review the project plan and build consensus for next steps. Some of the key discussion items will be:

- Review work previously completed, and discuss objectives and expectations going forward
- Identify project roles and responsibilities and JEA communication lines and protocol
- Review scope of work, schedule, and key project risks
- Identify and exchange information needed to perform the work

Project Review Meetings

Aside from the Project Kickoff Meeting, Burns & McDonnell has also included project review meetings with JEA and key stakeholders as indicated below. These meetings will be held to review submitted deliverables, discuss comments, solicit feedback on each package, and discuss the overall project status. Each meeting will be attended by at least two people from Burns & McDonnell. The following remote Team's meetings are proposed, and anticipated to take up to 2 hours each:

- 10% Physical Design Review Meeting
- 30% Physical Design Review Meeting
- 60% Physical Design Review Meeting
- 90% Physical Design Review Meeting
- 100% Physical Design Review Meeting

Project Status Meetings

Burns & McDonnell will attend a weekly, one-hour conference call with the JEA project team to discuss progress, action items, and issues for the duration of project work. Burns & McDonnell attendance for this meeting will include the Project Manager and engineering leads.

It is expected that miscellaneous additional conference calls will be required throughout the course of the project. Burns & McDonnell has allocated an additional four (4) man-hours per month as level of effort for this item throughout the proposed project duration.

9.0 PROJECT ESTIMATE – SUBSTATION, TRANSMISSION LINE AND PROJECT MANAGEMENT

The estimated cost for the Switchyard, Transmission Line, and Gen Tie Line scopes are shown in the tables below.

MILLER 230kV SWITCHYARD ESTIMATE	
SCOPE	COST
SWITCHYARD DESIGN	\$355,400
CONSTRUCTION SUPPORT	\$29,920
PROJECT MANAGEMENT	\$26,640
TRAVEL & EXPENSES	\$3,500
TOTAL PROJECT	\$415,460

MILLER 230kV T-LINE ESTIMATE	
SCOPE	COST
T-LINE DESIGN	\$162,700
CONSTRUCTION SUPPORT	\$9,120
PROJECT MANAGEMENT	\$20,535
TRAVEL & EXPENSES	\$3,500
TOTAL PROJECT	\$195,855

MILLER 230kV GEN TIE LINE ESTIMATE	
SCOPE	COST
GEN TIE LINE DESIGN	\$69,845
CONSTRUCTION SUPPORT	\$5,725
PROJECT MANAGEMENT	\$11,840
TRAVEL & EXPENSES	\$1,000
TOTAL PROJECT	\$88,410

ASSUMPTIONS AND CLARIFICATIONS

- 1) This proposal outlines the scope of the Work Burns & McDonnell will undertake in support of this project in its entirety. Any alterations, additions or deletions to the scope of the Work would be executed with a mutually agreeable change order.
- 2) BMcD has not included hours for switchyard or access road planning and design, including siting and grading activities, or drainage calculations.
- 3) BMcD has not included hours for conducting an Arc Flash study, lighting study, developing a NERC/CIP report, conducting Harmonic and VAR/Voltage studies, or conducting a Fault study (including high/low system buses or collector system contributions).
- 4) BMcD will provide control house layout and design. Panel front views, panel layout, protection schemes and relay panel wiring diagrams are provided by the JEA SPCP team. BMcD has not included hours for the development of the Protection and Controls (P&C) scope.
- 5) BMcD will evaluate one structure ahead and one structure behind the interconnection point to determine if the interconnection affects these structures. BMcD has not included hours for design modifications to the adjacent existing structures in the event they are impacted.
- 6) BMcD has assumed that JEA will provide the necessary information on the existing 940 circuit to assess adjacent structures (i.e: PLS CADD file, T line design criteria, existing plan & profiles, stringing charts, foundation schedule, etc)
- 7) BMcD has not included hours for survey activities. It is anticipated that any additional survey requirements, if required, will be completed by FRP surveyors or others.
- 8) BMcD has not included hours for preparation or field activities associated with subsurface exploration or compilation of a geotechnical report.
- 9) BMcD has not included hours for developing any drawings related to vegetation management.
- 10) BMcD has not included hours for developing any drawings related to environmental permitting other than specifically listed in this proposal.
- 11) BMcD has not included hours for designing the FRP collector termination structure. FRP will provide design parameters of collector terminal structure.
- 12) BMcD has not included hours for matting placement drawings and coordination.
- 13) BMcD has not included hours for supporting easement review and real estate acquisition.
- 14) BMcD has assumed that transmission line and substation standards have been developed and can be utilized for the design of this project. BMcD Transmission line has not included professional engineering services for electrical studies (e.g. lightning performance, insulation coordination,

impedance, conductor selection, grounding, electromagnetic field, corona, fault current analysis, or others).

- 15) BMcD has assumed that engineered steel pole structure will be adequate for the by-pass structure. This assumption may require revision once geotechnical information is provided.
- 16) BMcD has assumed that JEA will obtain Right of Way permits for the gen tie line, if required.
- 17) The transmission line design approach for this project is based on static loads determined from industry standard practices, industry design manuals, and applicable codes. BMcD has not included hours for site specific wind or structure studies to evaluate the impact of site-specific weather conditions on structure motion, the probability of structure and structure component vibration and dynamic loads.
- 18) BMcD has not included hours to perform underbuild design for this project.
- 19) BMcD assumes that pre construction LiDAR and deed mapping for the project is to be obtained by JEA. This proposal includes time for coordination with the selected surveyor.
- 20) The proposal is based upon the Project Scope Statement version 1.6 dated 3/4/24. If the final location of the substation or the POI affects the required number of transmission line structures (up or down) BMcD will provide revised pricing accordingly.
- 21) BMcD assumes the layout of the new Miller switchyard is to interconnect the existing 230kV 940 circuit via looping in and out of the switchyard without crossing the 941 circuit.
- 22) For estimating purposes, it has been assumed that only a single review cycle will be required for vendor calculations, fabrication drawings and design reviews with JEA.
- 23) BMcD assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project and additional studies to identify elements of the design criteria and standards will not be required.
- 24) Final Project PPA and LGIA not available at time of bid, this scope of work assumes the Point of Change of Ownership is at the Dead-end structure located inside the new Miller switchyard.

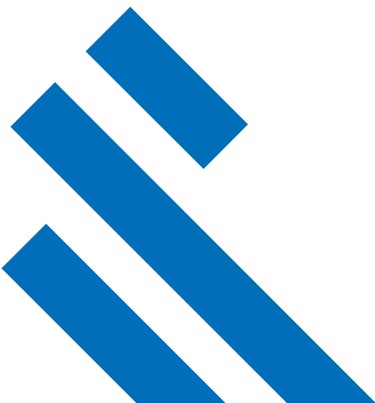
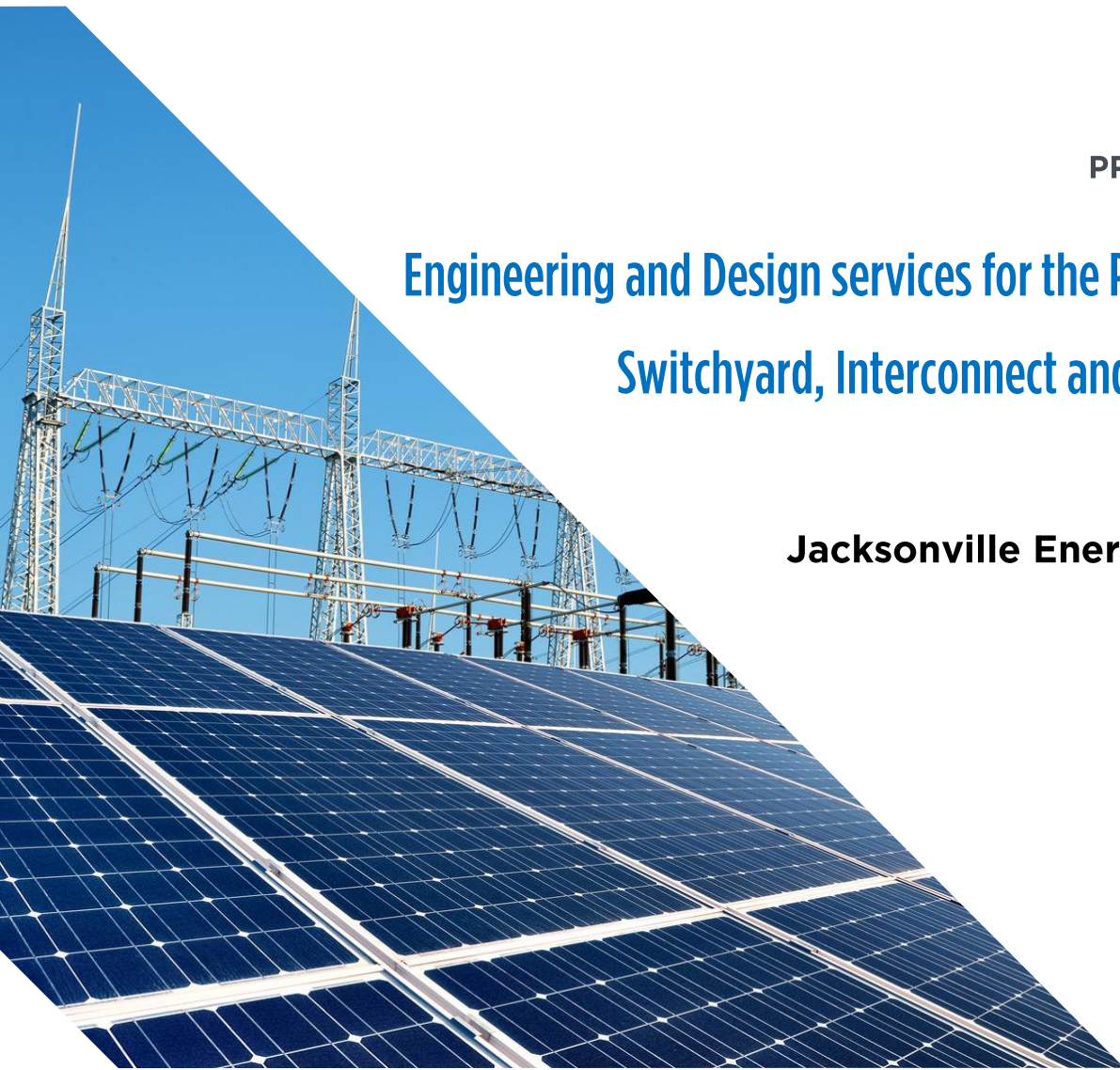
PROPOSAL TO PROVIDE

**Engineering and Design services for the Peterson Solar 230 kV
Switchyard, Interconnect and Generation Tie-Line**

SUBMITTED TO:

Jacksonville Energy Authority (JEA)

September 5, 2024





September 5, 2024

Darrell Hamilton
Manager – Transmission & Substation Projects
Jacksonville Energy Authority
225 North Pearl Street Jacksonville, FL 32202

Re: Peterson 230 kV Solar Switchyard, Interconnect and Generation Tie Line Proposal

Dear Mr. Hamilton,

On behalf of Burns & McDonnell, thank you for this opportunity to provide a proposal for the engineering and design services for the Peterson 230 kV Solar Switchyard, Interconnect and Generation Tie-line. This proposal outlines the scope of the Work Burns & McDonnell will undertake in support of this project in it's entirety.

This project has very time-sensitive and challenging needs, which Burns & McDonnell is prepared to meet. With an in-service Date of September 30, 2026 for the first solar interconnect, it is important that the design begins quickly to support the required in service date with necessary deliverables to support JEA with the procurement of long lead material, identification of the appropriate Point of Interconnection (POI), location of the Switchyard and to support JEA's steel packager, Distran.

BMcD has a long history of designing similar Solar Interconnection Substations for solar developers, including FRP, throughout Florida and has a long standing relationship with Distran as well. Our knowledge and experience in this area will be a benefit as we ramp up to support this effort.

We are prepared to start work on this exciting project immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Richard D. Mahaley'.

Richard D. Mahaley
Senior Vice President
Florida Region

A handwritten signature in black ink, appearing to read 'Randy Koncelik'.

Randy Koncelik
Project Manager / Point of Contact
Transmission & Distribution Services

PROPOSAL FOR PETERSON 230KV SOLAR SWITCHYARD, GENERATION TIE & INTERCONNECTION

1.0 PROJECT DESCRIPTION

Jacksonville Electric Authority (JEA) has requested that Burns & McDonnell (BMcD) prepare a proposal and estimate to provide engineering services to design a new 230kV interconnection switchyard and a transmission line interconnection from the existing CCCN - Brandy Branch 230kV line, Circuit 957, to the proposed Peterson 230kV switchyard, as well as the generation tie in line from the proposed Peterson Switchyard to the customer's Solar Photovoltaic Resource. The project site is approximately located in the western area of JEA's service territory, south of JEA's Brandy Branch 230kV substation. The requested in-service date for the first PV resource is September 30, 2026.

The switchyard design includes an open-air, 4-position ring bus configuration 230kV switchyard. The new Peterson 230kV Switchyard will have two (2) 230kV interconnection lines to the customer's Solar Photovoltaic Resources and two (2) 230kV transmission line connections with an "in-and-out" connection to JEA's existing 230 kV CCCN-Brandy Branch 957 transmission line. Only one of the 230kV interconnection lines to the customer's Solar Photovoltaic Resource will be energized during the execution of this project.

The transmission line design includes the installation of eight (8) proposed transmission line structures, including two (2) three-way by-pass structures to mitigate service outage time of the existing Brandy Branch - CCCN 230kV Line. The proposed cable types of the design are assumed to reflect current installation types on the existing CCCN - Brandy Branch 230kV line. The proposed tie-in transmission line length is still to be determined and will be finalized once the POI and the switchyard location is established. It is also anticipated that the design of four (4) proposed transmission structures will be required for the generation tie-in line. Pricing for both the interconnection and generation tie-in have been included and broken out separately.

BMcD will work with JEA to understand the outage requirements and will base a design to align with those requirements for both the switchyard and Substation.

2.0 REQUIRED INFORMATION

BMcD has identified key inputs to the engineering design process which must be supplied as outlined below to meet the deliverable dates provided in this proposal.

Information Type (Needed by)

Switchyard:

1. Major Equipment Ratings (Prior to 10% design start)
2. Switchyard and Overall Site/Grading Design Package in DWG format (Prior to 60% design start)
3. Geotechnical and Soil Resistivity Report (Prior to 30% design start)
4. Panel front views and panel layout from JEA System Protection and Control Project (SPCP) team (Prior to 30% design start)
5. Site Topographical Survey (Prior to 30% design start)

6. Site Boundary survey with legal descriptions of the proposed site (Prior to 30% design start)
7. System Fault Data and existing transmission line information (Prior to 30% design start)
8. Environmental and wetland delineation surveys (Prior to 60% design start)

Transmission Line:

9. Pre-construction Survey Data in LiDAR PLS-CADD .bak file format (Prior to Kick-Off Meeting)
10. Georeferenced ROW in DXF format (Prior to 30% design start)
11. Geotechnical Report (Prior to 60% design start)
12. Post-Construction Survey Data in LiDAR PLS-CADD .bak file format (after project energization)

3.0 SUBSTATION SCOPE OF WORK & ENGINEERING APPROACH

Preliminary Engineering

BMcD will prepare a project specific design criteria document for JEA review and approval, which will outline the design parameters for the project based on industry standards and project specific requirements. Specific items that are covered in the design criteria document include:

- Codes and Criteria (NEC, NESC, IEEE, & ASCE)
- Electrical Clearances and BIL rating (NESC)
- Structures and Loading Criteria

Surveying, Geotechnical Investigation, Site Design and Permitting Support

BMcD understands that third parties will be appointed as the Survey, Site Design, and Permitting leads that will be responsible for all tasks associated with their corresponding functions (identification of exhibits, providing, providing site design packages, filing of permits, interaction with jurisdictional agencies, etc.). These leads will be responsible for identifying the required drawings to support their respective processes and requesting such drawings. BMcD will act as support throughout the surveying, site design, and permitting processes for the switchyard by supplying the required engineering exhibit drawings identified by the respective leads. BMcD will create the required drawings and supply them to the JEA Engineering Lead for dissemination to the proper parties. The expected deliverables for this effort include General location plan, and other drawings and specifications required for permitting efforts that are already developed from the engineering packages being generated as identified in section 4.0 of this proposal. BMcD has included 15 hours to support these efforts.

Geotechnical Investigation

BMcD will prepare a geotechnical specification and scope of work inclusive of a boring location plan and soil resistivity specification that will be provided to JEA. JEA, will secure a geotechnical subcontractor to obtain the borings and provide BMcD with a geotechnical report to support BMcD's design prior to the 30% design start.

Detailed Substation Engineering

Electrical Design

Utilizing a site design package provided by others, BMcD will provide Physical engineering and design for the new 230kV switchyard including the following:

- 230kV Bus Configuration/Layout
- 230kV Equipment Locations
- Foundation and Fence/Gates Locations
- Foundation detailed design
- 230kV Support Structure and Lightning pole (if required) locations
- Electrical elevation and detail drawings
- Control Building Location
- Control Building Layout
- AC /DC Load studies
- Grounding study in CDEGS or WinIGS
- Grounding report
- Lightning Study utilizing the rolling-sphere method in WinIGS
- Conduit and Cable Trench Layout
- Grounding Layout and Details
- Yard Light Locations

Foundation Design

Utilizing the geotechnical report, site/grading design, and topographical survey (all provided by others), BMcD will provide design for all foundation selections within the switchyard fence based off of reactions provided by Distran. Deep foundation design will employ L-Pile or MFAD software. BMcD will provide foundation calculations in PDF format without native files. BMcD will provide design information to JEA to allow Distran to size the anchor bolts.

Bill of Materials (BOM)

A master BOM table will be developed and tabularized to capture all material required for the switchyard design. BOM will specify if material will be provided by JEA, the construction contractor and Distran.

4.0 SUBSTATION DELIVERABLES

BMcD will supply the following deliverables at the Milestones provided by JEA:

10% Design Submittal

- Single Line with Equipment Ratings

30% Design Submittal

- Switchyard General Arrangement
 - Included Survey and Site Design for Reference (provided by others)

60% Design Submittal

- Electrical Plan
- Grounding Plan
- Conduit Plan
- Foundation Plan

- Control House Plans
- Low Voltage AC Diagram
- Lightning Protection Plan

90% Design Submittal

- Electrical Details
- Grounding Details
- Conduit Details including Conduit Schedules
- Low voltage AC Diagram
- Control House Details
- Foundation Details
- Fencing Details

Issue for Construction Package (100% Design Submittal):

- Comments from all stakeholders incorporated into design package
- Permits completed for Reference (by others)
- Construction Specifications (including electrical and foundation instructions)
- Complete Bill of Materials (BOM)

As built Package:

The following items will be provided to JEA after receiving construction records and post-construction design verification.

- List of any Construction Changes
- Updated Drawings based on Redlines provided by construction
- Grounding Verification

5.0 TRANSMISSION LINE SCOPE OF WORK & ENGINEERING APPROACH

Preliminary Engineering

BMcD will coordinate with JEA on developing a project specific design criteria, which will outline the design parameters for the project based on industry standards and project specific requirements. Specific items that are covered in the design criteria document include:

- Codes and Criteria (NESC, IEEE, & ASCE)
- Industry Standard Code (RUS)
- Electrical Clearances
- Structures and Loading Criteria

Routing, Siting, FAA, and Permitting Support

BMcD assumes third parties will be appointed as the routing, siting, and permitting leads and be responsible for all tasks associated with their corresponding functions (identification of exhibits, filing of permits, interaction with jurisdictional agencies, etc.). These leads will be responsible for identifying the required drawings to support their respective processes and requesting such drawings. BMcD will act as support throughout the routing, siting, and permitting processes by supplying the required engineering exhibit drawings identified by the respective leads. BMcD will create the required drawings and supply them to the JEA Engineering Lead for dissemination to the proper parties. The expected deliverables for this effort includes the FAA filing, structure profile drawing and other drawings and specifications required for permitting efforts that are already

developed from the engineering packages being generated as identified in section 6.0 of this proposal. BMcD has included 20 hours to support these efforts.

Detailed Engineering (Final Package and Issue for Construction)

PLS-CADD Modeling and Line Design

Utilizing the LiDAR PLS-CADD model provided by JEA, BMcD will design the line as described herein. Initial line design will include Method 1 structures to develop line spotting and structure geometry based on project design clearances. Once structure designs have been determined, Method 4 structures will be modeled, and structural capacity checked in PLS-POLE. Conductors will be strung, and clearances checked to confirm that the line can be operated at the appropriate maximum operating temperature per JEA standards for conductors. The model will be developed and independently checked by qualified engineers.

In general, structure spotting will be optimized based on structure, wire, and right-of-way constraints.

Geotechnical Investigation

BMcD will prepare a geotechnical specification and scope of work inclusive of a boring location plan that will be provided to JEA. JEA will secure a geotechnical subcontractor to obtain the borings and provide BMcD with a geotechnical report to support BMcD's design prior to the 30% design start.

Structure Design

Wherever possible, spun concrete monopoles will be the basis of design. When strength or size requirements dictate, engineered steel poles may be utilized. For the purposes of this proposal, it is anticipated that two (2) single-circuit engineered steel monopole structure will need to be developed for the interconnection line and one (1) single-circuit engineered steel monopole structure for the generation tie-in line. Selected structure framing will be consistent with JEA engineering standards. Six (6) structures for the interconnection and three (3) structures for the generation tie-in line are anticipated to be light duty concrete structures that will not be design specific. Guy and anchor design will be assessed on the light duty concrete structures as needed for the transmission line design.

Foundation Design

Utilizing the geotechnical report, site/grading design, and topographical survey (all provided by others), BMcD will provide design for all foundations based off of reactions provided by structure supplier. Deep foundation design will employ L-Pile or MFAD software. BMcD will provide foundation calculations in PDF format without native files. BMcD will provide design information to JEA to allow structure supplier to size the anchor bolts. It is expected that Engineered steel poles will utilize self-supporting drilled pier foundations. Light duty structures will utilize direct embed foundations with crushed #57 backfill wherever possible. Concrete backfill will be utilized only if required.

Hardware Design & Bill of Materials (BOM)

BMcD will develop hardware assembly details based on JEA and industry requirements for JEA review and approval. Structure assembly drawings will be developed for each unique structure design. Hardware assembly drawings will be developed on an as-needed basis in the event JEA standard assemblies are not applicable. A master BOM table will be developed and tabularized to capture all material required for the line design.

Project Closeout & Conformed to Construction Records

As part of the project closeout, Conformed to Construction Record drawings will be developed based on redlined drawings provided by JEA and the construction contractor. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents, and drawings. Once BMcD receives the redlined drawings, the engineering deliverables will be reviewed and revised as required.

6.0 TRANSMISSION LINE DELIVERABLES

BMcD will supply the following deliverables at the Milestones provided by JEA:

10% Design Submittal

- LiDAR & Survey Specification
- Establish Geotechnical Investigation scope and subcontractor.
- Project Design Criteria Document – Issue for Review

30% Design Submittal

- Determination of all wire types
- Finalized Geotechnical Investigation scope and subcontractor.
- 30% PLS-CADD File (Method 1 structure models used for structure configuration and spotting only)
- Finalized Project Design Criteria Document
- Determination of Long Lead Bill of Material
- 30% Transmission Line Design Drawing Package
 - Preliminary Plan and Profiles
 - Index Drawing
 - Preliminary Structure Framing Drawings
 - Hardware Assembly Drawings
 - Bill of Materials
- Preliminary EMF Report

60% Design Submittal

- 60% PLS-CADD File (Method 4 “Dummy” structure models utilized for structure configuration, spotting)
- 60% Transmission Line Design Drawing Package
 - Preliminary Plan and Profiles
 - Index Drawing
 - Preliminary Structure Framing Drawings
 - Hardware Assembly Drawings
 - Construction Drawings (Staking, Damper Placement, Phasing)
 - Bill of Materials
- Finalized Structure Load Design

90% Design Submittal

- 90% PLS-CADD File (Method 4 Vendor Supplied structure models utilized for structure capacity confirmation)
- 90% Transmission Line Design Drawing Package

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- Plan and Profiles
- Index Drawing
- Structure Framing Drawings
- Hardware Assembly Drawings
- Construction Drawings (Staking, Damper Placement, Phasing, Sag Charts)
- Bill of Materials
- Finalized EMF Report
- Foundation Design & Drawings

Issue for Construction Package:

IFC package will consist of the following in addition to all finalized items from the 90% package:

- Final Engineering Transmittal

The electronic documents, including the PLS-CADD model will be provided to JEA with the issuance of the IFC Package.

As built Package:

The following items will be provided to FRP after receiving construction records.

- As-Built Plan & Profiles (Auto-CAD)
- Other Reference Plan & Profile Drawings (Auto-CAD)
- PLS-CADD Backup files with As-Built information incorporated
- PLS-Pole Backup files with As-Built information incorporated
- Grounding Verification
- List of construction changes

7.0 CONSTRUCTION SUPPORT

In-Office Construction Support

will remain available to support Purchaser/Final Owner with review of contractor material submittals and technical support required to answer contractor requests for information related to the IFC Package. 150 hours of in-office support for both the substation and T-Line has been included in the estimate for engineering services. During this time, requests for information (RFIs) from the contractor regarding the IFC package will be answered and contractor submittals will be reviewed.

Construction Site Visits

In addition to in-office construction support, Burns & McDonnell proposes to also conduct a site visit to site prior to energization. The trip is anticipated to include two days of on-site support including travel time for up to two engineers.

Conformed to Construction Record Documents

As part of the project closeout, Conformed to Construction Record drawings will be developed. IFC drawings will be updated after receiving construction records provided by JEA. It is expected that the construction contractor will certify their work was performed in accordance with the construction contract, specifications, documents, and drawings or otherwise clearly indicate any changes made and provide supporting information necessary to justify such changes. Conformed to Construction Record drawings will not be sealed by a Burns & McDonnell Professional Engineer.

Upon completion of the Conformed to Construction Record drawings, an electronic copy of the design related materials to close out the Project will be provided. Included in this package will be the design criteria document and AutoCAD files of all the Conformed to Construction Record drawings.

Burns & McDonnell has included 40 hours to complete this effort and will complete the Conformed to Construction Record drawings within a month after the completion of the construction.

8.0 PROJECT MANAGEMENT

Burns & McDonnell's Project Manager will provide general project administration, budgeting, invoicing, change management, risk assessment, and day-to-day management and coordination of the Burns & McDonnell effort.

PROJECT MEETINGS

Kickoff Meeting

A project kickoff conference call will be scheduled following award of the project. The primary objective of this meeting will be to exchange requested information, review the project plan and build consensus for next steps. Some of the key discussion items will be:

- Review work previously completed, and discuss objectives and expectations going forward
- Identify project roles and responsibilities and JEA communication lines and protocol
- Review scope of work, schedule, and key project risks
- Identify and exchange information needed to perform the work

Project Review Meetings

Aside from the Project Kickoff Meeting, Burns & McDonnell has also included project review meetings with JEA and key stakeholders as indicated below. These meetings will be held to review submitted deliverables, discuss comments, solicit feedback on each package, and discuss the overall project status. Each meeting will be attended by at least two people from Burns & McDonnell. The following remote Team's meetings are proposed, and anticipated to take up to 2 hours each:

- 10% Physical Design Review Meeting
- 30% Physical Design Review Meeting
- 60% Physical Design Review Meeting
- 90% Physical Design Review Meeting
- 100% Physical Design Review Meeting

Project Status Meetings

Burns & McDonnell will attend a weekly, one-hour conference call with the JEA project team to discuss progress, action items, and issues for the duration of project work. Burns & McDonnell attendance for this meeting will include the Project Manager and engineering leads.

It is expected that miscellaneous additional conference calls will be required throughout the course of the project. Burns & McDonnell has allocated an additional four (4) man-hours per month as level of effort for this item throughout the proposed project duration.

9.0 PROJECT ESTIMATE – SUBSTATION, TRANSMISSION LINE AND PROJECT MANAGEMENT

The estimated cost for the Switchyard, Transmission Line, and Gen Tie Line scopes are shown in the tables below.

PETERSON 230kV SWITCHYARD ESTIMATE	
SCOPE	COST
SWITCHYARD DESIGN	\$383,550
CONSTRUCTION SUPPORT	\$29,920
PROJECT MANAGEMENT	\$32,560
TRAVEL & EXPENSES	\$3,500
TOTAL PROJECT	\$449,530

PETERSON 230kV T-LINE ESTIMATE	
SCOPE	COST
T-LINE DESIGN	\$163,605
CONSTRUCTION SUPPORT	\$9,020
PROJECT MANAGEMENT	\$20,720
TRAVEL & EXPENSES	\$3,500
TOTAL PROJECT	\$196,845

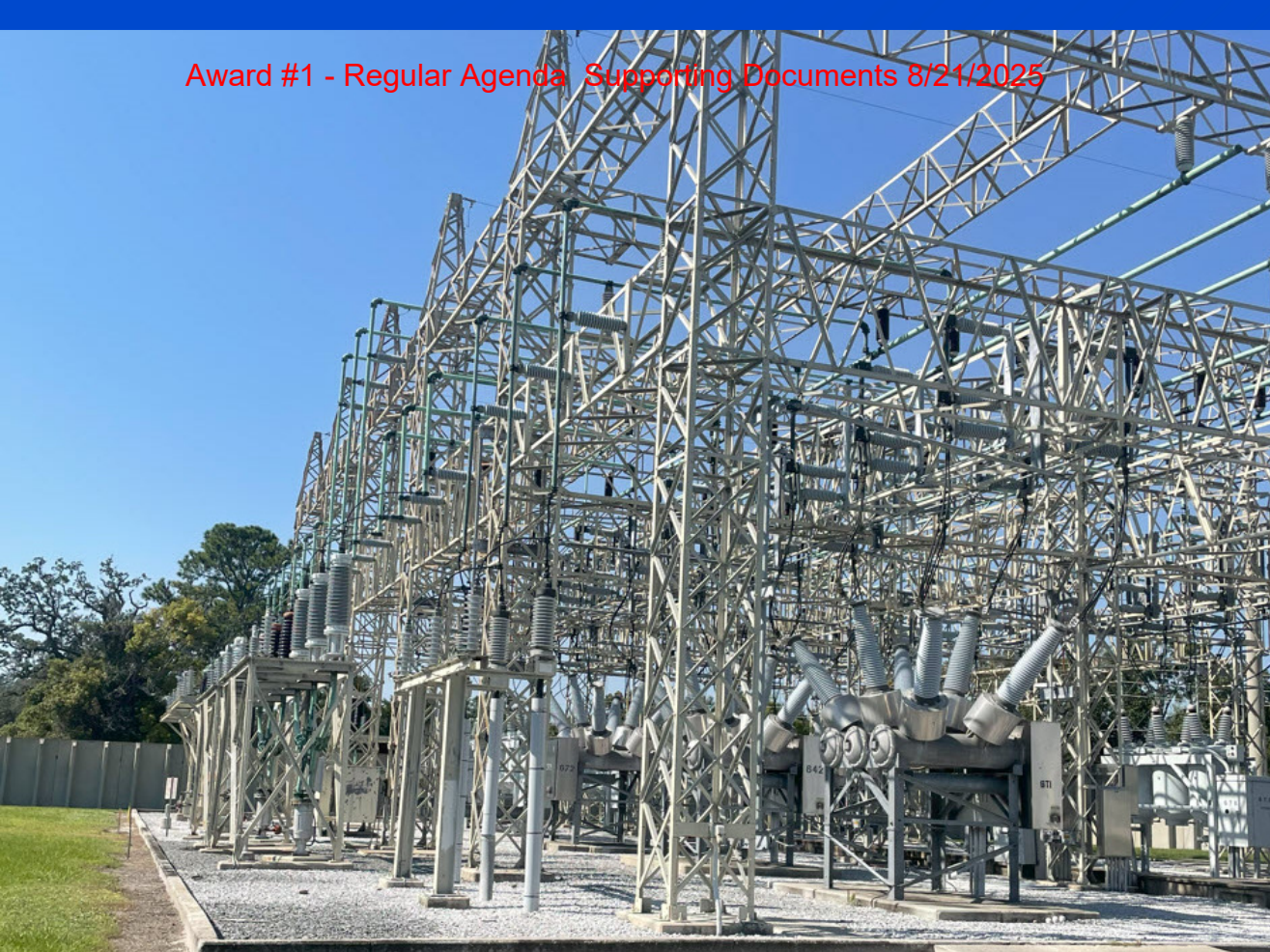
PETERSON 230kV GEN TIE LINE ESTIMATE	
SCOPE	COST
GEN LINE DESIGN	\$86,885
CONSTRUCTION SUPPORT	\$5,800
PROJECT MANAGEMENT	\$11,840
TRAVEL & EXPENSES	\$1,000
TOTAL PROJECT	\$105,525

ASSUMPTIONS AND CLARIFICATIONS

- 1) This proposal outlines the scope of the Work Burns & McDonnell will undertake in support of this project in its entirety. Any alterations, additions or deletions to the scope of the Work would be executed with a mutually agreeable change order.
- 2) BMcD has not included hours for switchyard or access road planning and design, including siting and grading activities, or drainage calculations.
- 3) BMcD has not included hours for conducting an Arc Flash study, lighting study, developing a NERC/CIP report, conducting Harmonic and VAR/Voltage studies, or conducting a Fault study (including high/low system buses or collector system contributions).
- 4) BMcD will provide control house layout and design. Panel front views, panel layout, protection schemes and relay panel wiring diagrams are provided by the JEA SPCP team. BMcD has not included hours for the development of the Protection and Controls (P&C) scope.
- 5) BMcD will evaluate one structure ahead and one structure behind the interconnection point to determine if the interconnection affects these structures. BMcD has not included hours for design modifications to the adjacent existing structures in the event they are impacted.
- 6) BMcD has assumed that JEA will provide the necessary information on the existing 940 circuit to assess adjacent structures (i.e: PLS CADD file, T line design criteria, existing plan & profiles, stringing charts, foundation schedule, etc)
- 7) BMcD has not included hours for survey activities. It is anticipated that any additional survey requirements, if required, will be completed by FRP surveyors or others.
- 8) BMcD has not included hours for preparation or field activities associated with subsurface exploration or compilation of a geotechnical report.
- 9) BMcD has not included hours for developing any drawings related to vegetation management.
- 10) BMcD has not included hours for developing any drawings related to environmental permitting other than specifically listed in this proposal.
- 11) BMcD has not included hours for designing the FRP collector termination structure. FRP will provide design parameters of collector terminal structure.
- 12) BMcD has not included hours for matting placement drawings and coordination.
- 13) BMcD has not included hours for supporting easement review and real estate acquisition.
- 14) BMcD has assumed that transmission line and substation standards have been developed and can be utilized for the design of this project. BMcD Transmission line has not included professional engineering services for electrical studies (e.g. lightning performance, insulation coordination,

impedance, conductor selection, grounding, electromagnetic field, corona, fault current analysis, or others).

- 15) BMcD has assumed that engineered steel pole structure will be adequate for the by-pass structure. This assumption may require revision once geotechnical information is provided.
- 16) BMcD has assumed that JEA will obtain Right of Way permits for the gen tie line, if required.
- 17) The transmission line design approach for this project is based on static loads determined from industry standard practices, industry design manuals, and applicable codes. BMcD has not included hours for site specific wind or structure studies to evaluate the impact of site-specific weather conditions on structure motion, the probability of structure and structure component vibration and dynamic loads.
- 18) BMcD has not included hours to perform underbuild design for this project.
- 19) BMcD assumes that pre construction LiDAR and deed mapping for the project is to be obtained by JEA. This proposal includes time for coordination with the selected surveyor.
- 20) The proposal is based upon the Project Scope Statement version 1.6 dated 3/4/24. If the final location of the substation or the POI affects the required number of transmission line structures (up or down) BMcD will provide revised pricing accordingly.
- 21) BMcD assumes the layout of the new Peterson switchyard is to interconnect the existing 230kV 940 circuit via looping in and out of the switchyard without crossing the 941 circuit.
- 22) For estimating purposes, it has been assumed that only a single review cycle will be required for vendor calculations, fabrication drawings and design reviews with JEA.
- 23) BMcD assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project and additional studies to identify elements of the design criteria and standards will not be required.
- 24) Final Project PPA and LGIA not available at time of bid, this scope of work assumes the Point of Change of Ownership is at the Dead-end structure located inside the new Peterson switchyard.



PROPOSAL FOR
Georgia Street Substation – Feasibility Study

Contract # JEA12038

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SUBMITTED TO
JEA
July 31, 2025



July 31, 2025

Mr. Darrell Hamilton
Manager, Transmission & Substation Projects
JEA
225 North Pearl Street
Jacksonville, FL 32202

RE: Georgia Street Substation Feasibility Study

Dear Mr. Hamilton,

On behalf of Burns & McDonnell Engineering Company, Inc. (BMcD), thank you for this opportunity to provide a Feasibility Study proposal for the Georgia Street Substation. This proposal outlines the scope of the services BMcD will undertake in its entirety and the associated estimated cost.

We are prepared to start work immediately upon your approval. If you have any questions or would like to discuss further, please feel free to reach out to Randy Koncelik at (551) 404-8393.

Sincerely,



Matthew Kapusta, PE
Director of Operations, Florida
Transmission & Distribution Services
mkapusta@burnsmcd.com



Randy Koncelik, PMP
Project Manager, Account Manager
Transmission & Distribution Services
rjkoncelik@burnsmcd.com

Cc: Spencer Hamilton, JEA Electric Systems Engineer

1.0 Feasibility Study Description

JEA has engaged Burns & McDonnell Engineering Company, Inc. (BMcD) to provide a report that conveys potential ultimate arrangements at the Georgia Street Substation. Due to increasing load requirements in the area, JEA T&D Planning has requested the addition of a third 69-13.2kV power transformer 'T3' at Georgia Street Substation. To support the additional bank, planning requires the installation of two (2) additional 69kV breakers within the substation yard. In the proposed study, BMcD will present a conceptual design for installing a third power transformer that conforms to the existing substation arrangement. Due to space constraints, ageing infrastructure and reliability concerns, BMcD will provide an assessment of replacing the existing 69kV yard. BMcD will present a second conceptual design that includes installing a third power transformer and replacing the existing 69kV yard and control building with new self-contained Gas Insulated Substation (GIS).

This study is expected to be executed and completed by the end of FY 2025, which is September 30, 2025.

2.0 Required Information

BMcD has identified key inputs, shown below, to support the completion of the proposed Feasibility Study. These inputs must be supplied by JEA to meet the proposed issuance (completion) date provided in this proposal.

Information Type

1. Site boundary and topographical surveys
2. Geotechnical investigation final report
3. Subsurface investigation report with soft digging verification (potholes)
4. Equipment Ratings for future major equipment
5. Latest revisions of Substation engineering drawings
6. Latest revisions of Transmission line drawings and PLS CAD models associated with Georgia Street Substation

3.0 Feasibility Study - Scope of Work

The Feasibility Study report that will be provided to JEA will include descriptions and illustrations of potential substation ultimate layouts for the Georgia Street Substation. The study will consider two (2) ultimate design options. Both final configurations will be achieved in phases to limit the outage durations required for construction.

The first design option will consider an ultimate design with the addition of a third power transformer 'T3', while retrofitting the existing 69kV yard and control building to accommodate the new 'T3' installation. Considerations for this design will include, but are not limited to, 69kV bus configuration reliability, physical security, control building space requirements, space requirements for installing two (2) new 69kV breakers, new buswork requirements, existing AC/DC system capacity, new load demand requirements, major equipment access, below grade conduit/cable requirements and restrictions.

The second design option will consider an ultimate design with the addition of a third power transformer 'T3', while replacing the existing 69kV yard and control building with a self-contained GIS. Considerations for this design will include, but are not limited to, 69kV bus configuration and reliability, physical security, existing transmission line re-termination options/requirements, GIS size requirements, GIS bus design, major equipment access, below grade conduit/cable requirements and restrictions.

For both design options, the ultimate layout will be achieved utilizing separate construction outages. The work associated with each outage will be considered an independent project. The completion of each project's construction, resulting in station re-energization, will be considered as a 'phase' of the overall ultimate design. The proposed study will consider the following for each phase:



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1. Substation Physical and Civil/Structural design scope of work, associated costs (ROM estimate), outage requirements and critical long lead items with potential schedule impacts.
2. Protection & Control design scope of work, associated costs (ROM estimate), outage requirements and critical long lead items with potential schedule impacts.
3. Transmission line terminal design scope of work, associated costs (ROM estimate), outage requirements and critical long lead items with potential schedule impacts.
4. Telecommunications design scope of work, associated costs (ROM estimate) and critical long lead items with potential schedule impacts.

4.0 Feasibility Study Deliverables

Burns & McDonnell will provide a report with the following deliverables based on the study's Scope of Work:

1. Feasibility Study report includes the following:
 - o Descriptions and analysis of Scope of Work described in Section 3.0
 - o One-line diagram drawings (PDF) for each project phase
 - o General Arrangement drawings (PDF) for each project phase
 - o Class 5 estimates (materials, design & construction) for each project phase
 - o List of Long Lead Material Items

5.0 Project Estimate – Feasibility Study

The estimated fee for the Feasibility Study work described herein is illustrated in the table below:

GEORGIA STREET SUBSTATION FEASIBILITY STUDY	FEE
Project Management	\$7,400.00
Conceptual Designs	\$116,100.00
Conceptual Estimates	\$39,200.00
TOTAL	\$162,700.00

NOTE: Estimated fee is based on the information available and subject to change based on the needs of the project. Funding may be adjusted between disciplines as needed, but overall funding will not exceed the Total Fee of as shown above without a mutually agreeable change order.

6.0 Assumptions, Clarifications and Exceptions

1. This proposal outlines the scope of the Services Burns & McDonnell Engineering Company, Inc. (BMcD) will undertake in support of this study in its entirety. Any alterations, additions, or deletions to the scope of the Services would be executed with a mutually agreeable change order.
2. BMcD has not included hours for developing any drawings or estimates related to permitting and assumes this will be done by others.
3. BMcD has not included hours for developing construction methods, outage coordination, and construction sequences for the Scope of Work described within the study and assumes this is not within the study Scope of Work.



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4. BMcD assumes that a geotechnical investigation and final report will be completed by others prior to the study's start to support the conceptual designs included in the study's Scope of Work.
5. BMcD has not included hours for relays settings conceptual designs or estimates.
6. The not-to-exceed price is not a guaranteed maximum price and Burns & McDonnell has no obligation to complete any work in excess of the Total Fee without written approval of additional funds from JEA.
7. BMcD has not included hours for conducting an Arc Flash study, lighting study, lightning protection study, grounding study, developing a NERC/CIP report, conducting Harmonic and VAR/Voltage studies, or conducting a Fault study (including high/low system buses or collector system contributions).
8. BMcD assumes the information provided by or through JEA and/or EOR is reliable, without independent verification being required.
9. BMcD has not included hours for any detailed design services and will only provide conceptual designs, which are listed in Section 4.0.
10. BMcD has not included hours for any boundary or topographical survey activities.
11. BMcD has not included hours for estimating easement review and real estate acquisition.
12. BMcD has not included hours for any underground transmission cable detailed design for the project's Scope of Work.
13. BMcD assumes that JEA standard material specifications will be utilized. These standards are assumed to be electrically and structurally suitable for this project and additional studies to identify elements of the design criteria and standards will not be required.
14. BMcD has not included hours for material procurement, which is outside the scope of this project.
15. The pricing contained in the proposal does NOT include impacts on, including but not limited to, cost and schedule, that may occur as a result of new tariffs or other executive actions imposed on or after January 20, 2025.





IFB - 1412022051 - Addendum 1 - Appendix B - Bid Workbook
Iron Ductile Poles for JEA Inventory
(Only complete the prices in yellow cells)

JEA Item Number	Item Description	MFG Name/PN	Unit of Measure	Current Spot Buy	One (1) Year Total Estimate	Company:		Minimum Quantities if applicable	Vendor Quoted Unit Price	Extended One (1) Year Price	Lead Time In Calendar Days After Receipt of Order
						Irby	Irby				
POLDI001	POLE, DUCTILE IRON, 75' CLASS H4, PRE-DRILLED FOR TRANSMISSION, (REFERENCE DWG# 1766D).	MCWANE POLES(H4075),	Each	9		6 (can be combined with other sizes)	8806.77		\$0.00	119 - 133 after drawing approval	
POLDI002	POLE, DUCTILE IRON, 75' CLASS H4, NOT PRE-DRILLED, (REFERENCE DWG# 2383C).	MCWANE POLES(H4075-NO HOLES),	Each	9		6 (can be combined with other sizes)	8806.77		\$0.00	119 - 133 after drawing approval	
POLDI001	POLE, DUCTILE IRON, 75' CLASS H4, PRE-DRILLED FOR TRANSMISSION, (REFERENCE DWG# 1766D).	MCWANE POLES(H4075),	Each		14	6 (can be combined with other sizes)	8806.77	\$123,294.78		119 - 133 after drawing approval	
POLDI002	POLE, DUCTILE IRON, 75' CLASS H4, NOT PRE-DRILLED, (REFERENCE DWG# 2383C).	MCWANE POLES(H4075-NO HOLES),	Each		10	6 (can be combined with other sizes)	8806.77	\$88,067.70		119 - 133 after drawing approval	
POLDI003	POLE, DUCTILE IRON, 80' CLASS H4, PRE-DRILLED FOR TRANSMISSION, (REFERENCE DWG# 1766C).	MCWANE POLES(H4080),	Each		3	6 (can be combined with other sizes)	9491.58	\$28,474.74		119 - 133 after drawing approval	
POLDI005	POLE, DUCTILE IRON, 85' CLASS H4, PRE-DRILLED FOR TRANSMISSION, (REFERENCE DWG# 1766B).	MCWANE POLES(H4085),	Each		3	6 (can be combined with other sizes)	10242.54	\$30,727.62		119 - 133 after drawing approval	
POLDI006	POLE, DUCTILE IRON, 85' CLASS H4, NOT PRE-DRILLED, (REFERENCE DWG# 2383A).	MCWANE POLES(H4085-NO HOLES),	Each		3	6 (can be combined with other sizes)	10242.54	\$30,727.62		119 - 133 after drawing approval	
POLDI004	POLE, DUCTILE IRON, 80' CLASS H4, NOT PRE-DRILLED, (REFERENCE DWG# 2383B).	MCWANE POLES(H4080-NO HOLES),	Each		3	6 (can be combined with other sizes)	9491.58	\$28,474.74		119 - 133 after drawing approval	
Bid Total (Enter this amount on Page 1 of the Bid Form)										\$329,767.20	