Welcome to the JEA Awards Meeting

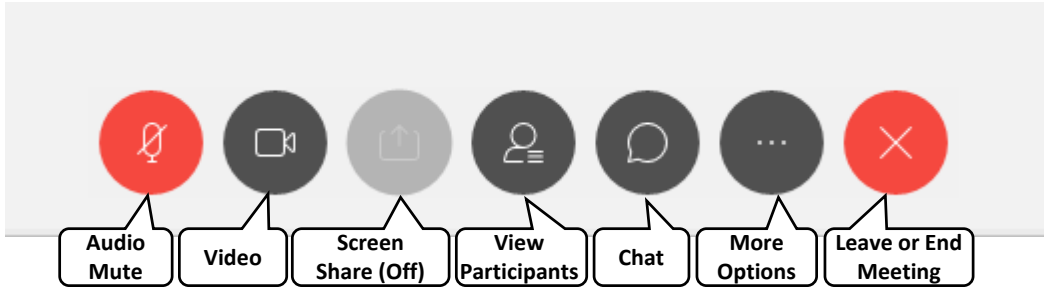
You have been joined to the meeting with your **audio muted** by default.

We will unmute your lines during the public comment time and provide opportunity for you to speak.

During the meeting, interested persons can also email Lynn Rix at rixlw@jea.com to submit public comments to be read during the meeting regarding any matter on the agenda for consideration. Public comments by e-mail must be received no later than 9:00 a.m. to be read during the public comment portion of the meeting.

Please contact Lynn Rix by telephone at (904) 665-8621 or by email at rixlw@jea.com if you experience any technical difficulties during the meeting.

Below is a summary of the meeting controls you will see at the bottom of your screen.



AWARDS COMMITTEE
AGENDA

DATE: **Thursday, November 18, 2021**

TIME: **10:00 A.M.**

PLACE: **JEA, Customer Center, Bid Office, 1st Floor, 21 West Church Street, Jacksonville, FL 32202 OR**
WebEx/Teleconference
WebEx Meeting Number (access code): 160 199 4252
WebEx Password: pxP6CqUSt63

Public Comments:

Awards:

1. Approval of the minutes from the last meeting (11/04/2021).

2. Request approval to award a contract to the developer, Ryals Creek Community Development, for the construction of the water main and reclaimed water main by Vallencourt for the SEQ Stillwood Pines Phase 1 Reclaimed Water Main Project in the amount of $395,820.94, subject to the availability of lawfully appropriated funds.

3. Request approval to rescind this solicitation, and reject all Bids received in anticipation for rebidding of the Cloud and On-Premise Backup/Restore Licensing to try and increase competition.

4. **DEFERRED** - Request approval to award a three (3) year contract to Avepoint, Inc. to continue using JEA's existing backup/restore for Cloud and On Premise software in the amount of $584,640.00, subject to the approval of lawfully appropriated funds.

5. Request approval to award a contract increase to RS&H, Inc. for Tenant Improvement Design Services for Proposed New JEA Corporate Headquarters (HQ), in the amount of $70,000.00, for a new not-to-exceed amount of $1,148,700.00, subject to the availability of lawfully appropriated funds.

6. Request approval of awarded purchase order to Cogburn Bros Inc., for KGS transformer TP7SU installation to support production availability in the amount of $79,650.00, subject to the availability of lawfully appropriated funds.

7. Request approval to award a contract to Mechling Engineering & Consulting Inc. for in the amount of $633,333.33, subject to the availability of lawfully appropriated funds.

8. Request approval to award a contract to Perdue, Inc. for Furniture Procurement, Delivery and Service for New Headquarters for the first phase for a total amount of $1,327,101.95, subject to the availability of lawfully appropriated funds.

9. Request approval to award contracts to Calloway Contracting, Inc. ($2,500,000.00), TB Landmark Construction, Inc. ($2,000,000.00), J.B Coxwell Contracting, Inc. ($2,000,000.00), and Petticoat-Schmitt Civil Contractors, Inc. ($1,000,000.00) for construction services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services in the amount of $7,500,000.00, subject to the availability of lawfully appropriated funds.

10. Request approval to award a contract to General Electric International for Mark VIe controls, HMI replacements and excitation controls upgrades in the amount of $2,266,309.00, subject to the availability of lawfully appropriated funds.

11. Request approval to award contracts to STUART C IRBY CO. ($156,600.47), ANIXTER INC. ($565,696.99), GRESCO SUPPLY INC. ($171,047.00) and ENGLEWOOD ELECTRICAL SUPPLY ($124,474.43) for the supply of Miscellaneous Electrical Items carried in JEA's inventory stock for a total amount of $1,017,818.89 subject to the availability of lawfully appropriated funds.

12. **DEFERRED** - Request approval to award an amendment to correct the name from ABB Enterprise Software Inc. to Hitachi Energy USA Inc. for the purchase of substation transformers for a previously approved not-to-exceed contract amount of $4,160,229.00, and no change to the current SPX $10,054,615.60 for a total not-to-exceed amount of $14,214,844.60, subject to the availability of lawfully appropriated funds.

13. Request approval to award a one (1) year Single Source award to Oracle America Inc. for maintenance and support services for Oracle E-Business Suite (EBS), Oracle Databases and Middleware in the amount of $2,948,902.07, subject to the availability of lawfully appropriated funds.

Informational Items: N/A

Open Discussion: N/A

Public Notice: N/A

General Business: N/A

SPECIAL NOTES: Copies of the above items are available in JEA Procurement, if needed for review. If a person decides to appeal any decision made by the Awards Committee, with respect to any matter considered at this meeting, that person will need a record of the proceedings, and, for such purpose, needs to ensure that a verbatim record of the proceedings is made, which record includes the evidence and testimony upon which the appeal is to be based. If you have a disability that requires reasonable accommodations to participate in the above meeting, please call 665-8625 by 8:30 a.m. the day before the meeting and we will provide reasonable assistance for you.

11-18-2021 Awards Committee

Award #	Type of Award	Business Unit	Estimated/ Budgeted Amount	Amount	Awardee	Term	Summary
1	Minutes	N/A	N/A	N/A	N/A	N/A	Approval of minutes from the 11/04/2021 meeting.
2	Developer Agreement	Vu	$473,329.00	$395,820.94	Ryals Creek Community Development	Project Completion (Estimated: December 2021)	**SEQ Stillwood Pines Phase 1 Reclaimed Water Main Project** The SEQ Stillwood Pines Phase 1 Reclaimed Water Main Project is part of the Ryals Creek Community Development District (CDD) and JEA Cost Participation Agreement dated September 8, 2021. The Agreement outlines that certain JEA system improvements are reimbursable to the Developer. Per the Agreement, JEA will reimburse the Developer Assignee, Ryals Creek Community Development, for the improvements associated with the SEQ Stillwood Pines Phase 1 Reclaimed Water Main Project. This project segment is an open cut installation of approximately 960 LF of 30" reclaimed water main with associated fittings and valves. This is a component of a connection between southern extent of the 30" north-south reclaimed transmission line at JTB and a proposed segment to the south to be constructed under SEQ project 417-47 which will connect to the existing segment along E-Town Parkway via a small segment currently under construction under E-Town/Toll Brothers project 417-93 on parcel E8. The developer requested bids for all the utility work and the project was awarded based upon the lowest lump sum total. The developer has followed JEA procurement directives by advertising and awarding to the lowest responsible bidder. The solicitation was advertised and bids opened on February 17, 2020. All of the bidders are listed above with Vallencourt, being the lowest bidder at $12,854,136.42. Vallencourt's line item bid for the JEA reimbursable work was $395,820.94. This is substantially lower than JEA's estimate of $522,120.00 and is deemed acceptable. Capital Budget has approved funding of $395,820.94 to cover the bid amount.
3	Rescind	Datz	N/A	N/A	N/A	N/A	**Cloud and On Premise Backup/Restore Licensing** The purpose of this solicitation is to provide Avepoint (DocAve) backup/restore for Cloud and On Premise software (2800 users) used for Office 365 (and components) and Sharepoint.

11-18-2021 Awards Committee

							Request approval to rescind this solicitation, and reject all Bids received in anticipation of a rebid for Cloud and On-Premise Backup/Restore Licensing.
4 - DEFER	Defer	Defer	Defer	Defer	Defer	Defer	
5	Contract Increase	McElroy	$1,700,000.00 (Original budget, which covers this increase. NTE amount $1,148,700.00)	$70,000.00	RS&H, Inc.	Project Completion (Expected: 07/31/2022)	**Tenant Improvement Design Services for Proposed New JEA Corporate Headquarters** JEA is soliciting proposals for Tenant Improvement (TI) Design services for its proposed new corporate headquarters (HQ) building to be located in downtown Jacksonville, Florida. JEA executed a lease with Ryan Companies US Inc. (Ryan) for a build to suit office building and adjacent dedicated garage structure. Ryan's proposal for the core and shell project was selected through a competitive negotiation process. JEA also engaged ASD|SKY to help develop workspace programming for the interiors in advance of the TI Design engagement. Design plans will be developed in conjunction with Ryan Architecture and Engineering (A+E) exterior and core design and will include JEA occupied corporate office and storefront space in the garage building. Portions of the storefront may be occupied by third parties. Design drawings must be developed in close coordination with Ryan and meet all state and local building codes and JEA standards. The contract shall provide for TI design at key schematic, design drawing, construction drawing milestones for JEA, authorities having jurisdiction (AHJ) and Ryan review and approval. JEA approved changes to the building size and scope in May 2020 that will affect programming and occupancy needs. JEA will also be assessing, with this consultant's guidance, application of best practices that evolve from COVID-19 workplace standards and accommodations as the interior design progresses. This award request is for an increase to the RS&H, Inc. contract to provide additional funding for fees for the building interiors LEED (environmental & energy efficiency) and WELL (employee and occupancy wellness focused) certifications for the

11-18-2021 Awards Committee

							new HQ. These fees were not included in our original award. A copy of the proposals for the fees has been attached as backup. Request approval to award a contract increase to RS&H, Inc. for Tenant Improvement Design Services for Proposed New JEA Corporate Headquarters (HQ), in the amount of $70,000.00, for a new not-to-exceed amount of $1,148,700.00, subject to the availability of lawfully appropriated funds.
6	Emergency	Erixton	$79,650.00	$79,650.00	Cogburn Bros Inc.	Project Completion (Expected: Nov 2021)	**Emergency KGS TP7SU Transformer Installation** The Kennedy Generating Station Unit 7 start up transformer TP7 SU failed in October 16, 2021. JEA had a spare transformer at WSSC that matched the voltage class needed, however, it was not physically laid out the same. JEA modified the transformer to facilitate it working with the existing transformer layout, however, some construction work has been required to support the installation. This emergency award amount includes the 5kV materials needed to support installation for Kennedy Generating Station's start up transformer TP7SU. Furnish and Installation of: • 11' X 30" X 24" Aluminum Gutter Box • 36" Aluminum Cable Tray with Covers • Cable Tray Support Stands • 500MCM CU 5KV – 1/C EPR MV-105 Cable from Splicing Location to new TP7SU • 3M Cold Shrink Rubber Splicing Kits 5553 • 3M Cold Shrink QT-III Silicone Rubber Skirted Termination Kits 7693-S-4 • 2/0 XHHW Cable for Neutral Wiring • Burndy Compression Splicing to Extend Neutral Wiring (2) Removal/Installation of (10) #10AWG Control Cables from KGS Control House (3) Equipment Rental JEA elected to process this work on an Emergency Basis, based on JEA's Procurement Code section 3-113, item (a) a reasonably unforeseen breakdown in machinery;

11-18-2021 Awards Committee

							Request approval of awarded purchase order to Cogburn Bros Inc, for KGS transformer TP7SU installation to support production availability in the amount of $79,650.00, subject to the availability of lawfully appropriated funds.
7	Request for Proposal (RFP) 3 proposers	Erixton	$200,000.00 annually ($633,333.33 Award Total)	$633,333.33	Mechling Engineering & Consulting Inc.	Three (3) Years, Two – 1 Yr. Renewals	**Byproduct Environmental Support Services** JEA is seeking a consultant/surveyor to provide professional services for byproduct environmental compliance support and marketing services. JEA is soliciting proposals for professional services from environmental consulting companies to provide solid waste byproduct marketing and environmental support associated with byproduct from circulating fluidized bed and other turbine power generation facilities at the Northside Generating Station (NGS) and the St. John's River Power Park (SJRPP). Note SJRPP services are associated with the legacy byproduct storage area and remediated site. These services require a combination of technical expertise and an extensive understanding of applicable regulatory requirements. Negotiations with Mechling were successfully completed. Historically JEA has fulfilled environmental byproduct service needs by processing informal CCNA direct < $35,000.00 purchase orders as needed. Overtime the volume of these individual needs has grown so JEA elected to perform a formal CCNA solicitation. The budget estimate of $200,000.00 annually is for the estimated $100,000.00 of byproducts environmental consulting and services described in the scope of work, as well as provides funds for any ad-hoc FDEP requests that may be required in support of the byproduct operations NGS and legacy SJRPP. 1410376246 – Request approval to award a contract to Mechling Engineering & Consulting Inc. for in the amount of $633,333.33, subject to the availability of lawfully appropriated funds.
8	Request for Proposal (RFP) 3 proposers	McElroy	$2,000,000.00 (Workstations, Standard offices, Task Chairs)	$1,327,101.95	Perdue, Inc.	Project Completion (Expected: 09/30/2022)	**Furniture Procurement, Delivery and Service for New Headquarters** JEA established Qualified Category List(s) for Furniture Procurement for

							the new headquarters with four (4) firms awarded a position on the list. The Qualified Category List will be utilized to seek response packages and bids for specified workstation and bench design and for standard office furniture. JEA intends to select one firm to provide the furniture outlined in the technical specification and may also award the majority of the ancillary and support furniture needs to the same firm. JEA reserves the right to procure all or portions of the ancillary furniture from other firms on the qualified list. The terms and conditions for this solicitation were included and agreed upon by the qualified firms during Request for Qualifications 101180. JEA will purchase furniture in phases. The first phase, which is considered in this award is the majority of items for the standard workstations, bench workstations and portions of items for the standard offices. There are 285 standard workstations, 174 standard bench workstations and 58 standard offices. The original proposal quantities were adjusted during the floor and furniture layouts during the interior design phase. The items not yet included for standard workstation and offices are storage options for the standard offices, accessories and task chairs. These items are being further reviewed and quantified. The estimated budget amount above was inclusive of the standard offices, workstations and task chairs. Additional workstations, office furniture, accessories and ancillary furniture and task chairs will be selected in the near future. Documentation for this Award includes a summary spreadsheet attached as backup showing items, unit prices and quantities in the first phase order. Additionally, Perdue has prepared a highly detailed invoice summary showing how the order will be filled and delivered by floor level for installation. This document is 81 pages and available for review through Procurement. Perdue requires a fifty percent (50%) deposit to place the order. The total amount for this phase is $1,327,101.95 and a deposit of $663,550.98 is required upon placement of the order. The award summary is slightly different than the individual unit item prices based on how the workstations and bench stations are grouped to be installed, i.e.

11-18-2021 Awards Committee

							groupings are typically four (4), six (6) or eight (8) workstations and each grouping requires appropriate end panels and common fence lengths. The additional phases are estimated to fall within the total budget of $2M. Request approval to award a contract to Perdue, Inc. for Furniture Procurement, Delivery and Service for New Headquarters for the first phase for a total amount of $1,327,101.95, subject to the availability of lawfully appropriated funds.
9	Invitation for Bid (IFB) 6 bidders	Vu	$7,500,000.00	$2,500,000.00 $2,000,000.00 $2,000,000.00 $1,000,000.00	Calloway Contracting, Inc. TB Landmark Construction, Inc. J.B Coxwell Contracting, Inc. Petticoat-Schmitt Civil Contractors, Inc.	Three (3) Years w/ Two - 1 Yr. Renewals	**Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services** The Work performed under this Contract shall include providing the personnel, equipment, and materials to complete assigned tasks including, but not limited to, the following: • Water Main replacements and/or extensions (including the addition of valves, fire hydrants, or service modifications necessary to bring existing systems into compliance with current standards) • Water, Wastewater, and/or Reclaimed Piping repairs, replacements, and/or extensions (including valves and other appurtenances as well as piping within vacuum and low-pressure systems) • Manhole installation & repairs (excluding liners/linings) • Service connections (residential and commercial) • Large meter installations JEA anticipates the need for contracts with four firms under this solicitation in order to supplement JEA W/WW crews performing both scheduled construction and emergency line work. These are continuing contracts for construction/repair services, so task orders will be issued for each project as the jobs become available. Each task order will be billed using the unit prices in the attached Bid Workbooks. The unit prices are fixed for the three year term of the contract. If JEA issues a renewal, a CPI increase may be authorized at that time. JEA is awarding to the estimated projected budget for construction services during

11-18-2021 Awards Committee

							the contract term. This contract will help supplement the W/WW workload. Request approval to award contracts to Calloway Contracting, Inc. ($2,500,000.00), TB Landmark Construction, Inc. ($2,000,000.00), J.B Coxwell Contracting, Inc. ($2,000,000.00), and Petticoat-Schmitt Civil Contractors, Inc. ($1,000,000.00) for construction services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services in the amount of $7,500,000.00.
10	Single Source	Erixton	$2,266,309.00	$2,266,309.00	General Electric International	Project Completion	**KGS GE Mark VI to Mark VIe Upgrades** This project is to fully migrate the current Kennedy Generating Station MarkVI to the MarkVIe system, move controls for the water wash skid from the old outdated GE Fanuc PLC into the Balance of Plant MarkVIe and perform a digital front end upgrade for the excitation controls from the EX2100 to the EX2100e along with HMI replacements. JEA's current Mark VI system is at the end of its service life and GE does not produce new spare parts anymore. This award is for JEA to upgrade the KGS Mark VI controls and EX2100 excitation controls for KGS Units 7 & 8. As with any technology, it eventually becomes obsolete. GE ceased normal production of the Mark VI platform in 2009 and stopped producing new parts in December 2018. GE ceased normal production of the EX2100 platform in 2011 and recently issued an information bulletin indicating that for the EX2100 they will stop producing new parts in March of 2021. Only repair parts are available at this time and sourcing these legacy components is getting more difficult. Spare parts are only available if GE still has the necessary components in stock to refurbish these old parts. If a part fails in our existing system and a replacement cannot be located, this could result in an extended outages. JEA is awarding this work as single source pursuant to the JEA Purchasing Code section - .3-112 - (b) the Supplies or Services must be a certain type, brand, make or manufacturer due to the criticality of the item or compatibility within a JEA utility system, and such Supplies or Services

11-18-2021 Awards Committee

							may not be obtained from multiple sources such as distributors. The budget amount matches the award amount, since, the budget was matched to proposal pricing. JEA has previously completed similar upgrades associated with Mark VI controls, excitation field equipment and HMI projects at NGS and Brandy Branch generating station. In general, the pricing for the overall scopes is reasonable when compared to NGS and BBGS upgrades. Since this equipment replacement upgrade is unlike a complete control replacement from another manufacturer, pricing cannot be compared; however, the cost of these upgrades are more economical than sourcing a whole controls system for a combustion turbine. Request approval to award a contract to General Electric International for Mark VIe controls, HMI replacements and excitation controls upgrades in the amount of $2,266,309.00, subject to the availability of lawfully appropriated funds.
11	Invitation for Bid (IFB) 4 bidders	McElroy	$822,860.24	$156,600.47 $565,696.99 $171,047.00 $124,474.43	Stuart C. Irby Co. Anixter Inc. Gresco Supply Inc. Englewood Electrical Supply	One (1) Year w/ Two (2) – 1 Yr. Renewal	**Miscellaneous Electrical Items for JEA Inventory Stock** The purpose of this Invitation for Bid (IFB) is to solicit pricing for five hundred and sixty seven (567) Miscellaneous Electrical Items for JEA Inventory Stock. The primary use of these items is to support the operations of JEA and can be best described as general electrical items ranging from meter locking rings to bushings and capacitor banks. During the last 12 months, the commodity spend for these items was $822,860.24. At the time of the bid release, the inventory balance for the items found in this solicitation was $1,403,703.46 with the average current lead-time of 17-112 days depending on the item. The basis of this award is to contract with the lowest cost respondent for each respective item. Based on this, recommended awarding four (4) contracts for four hundred thirty eight (438) items. There will not be an award made for one hundred and twenty nine (129) of the items as none of the Respondents submitted unit pricing for these items. This was mainly due to manufacturers not being willing to lock in pricing for a year.

11-18-2021 Awards Committee

							These items will be purchased on a spot buy moving forward. Even with the aggregations of items and competitive bidding, because of the uncertainty in the market today, JEA will exceed its budget estimate by $194,958.65 or 23.69%. Request approval to award contracts to STUART C IRBY CO. ($156,600.47), ANIXTER INC. ($565,696.99), GRESCO SUPPLY INC. ($171,047.00) and ENGLEWOOD ELECTRICAL SUPPLY ($124,474.43) for the supply of Miscellaneous Electrical Items carried in JEA's inventory stock for a total amount of $1,017,818.89 subject to the availability of lawfully appropriated funds.
12 - Defer	Defer	Defer	Defer	Defer	Defer	Defer	
13	Single Source	Datz	$2,931,054.00 ($1,070,534.00 (BL1727), $1,367,000.00 (BL1728), $493,520.00 (BL1738)) and ($17,848.00 (BL1733, budget transfer not included in total explained below))	$2,948,902.07	Oracle America Inc.	One (1) Year w/ One – 1 Yr. Renewal	**Oracle E -Business Suite (EBS), Oracle Databases, Middleware Maintenance and Support** This request is for a one (1) year single source award in the amount of $2,948,902.07, which includes all the maintenance and support for the Oracle EBS, Oracle Databases and Middleware. This award adds two (2) already existing contracts for the Oracle storage drive at W Ashley Street and the Oracle storage drive at SOCC, that were previously under warranty for hardware technical support. Upon expiration of the existing warranty, the two (2) additional contracts require extended warranties and shall be combined with the existing SKY contract. JEA's expectation is that these two (2) additional contracts shall be consolidated into the existing SKY contract going forward and shall no longer be treated separately. When compared to the rates in FY21, the new rates will increase by < 2% on like for like items. Request approval to award a one (1) year single source award to Oracle America Inc. for maintenance and support services for Oracle E-Business Suite (EBS), Oracle Databases and Middleware in the amount of $2,948,902.07, subject to the availability of lawfully appropriated funds.

11-18-2021 Awards Committee

Total Award				**$16,238,936.18**			

JEA AWARDS COMMITTEE
NOVEMBER 4, 2021 MEETING MINUTES

The JEA procurement Awards Committee met on November 4, 2021, in person with a WebEx option.

WebEx Meeting Number (access code): 160 199 4252
WebEx Password: pxP6CqUSt63

Members in attendance were Jenny McCollum as Chief Procurement Officer, Stephen Datz as Chairperson (on site), Hai Vu as Vice Chairperson (on site), Laure Whitmer as Budget Representative, Regina Ross as Office of General Counsel Representative; with Laura Dutton, Joe Orfano (on site), and Todd Skinner for Ricky Erixton. Unless otherwise indicated, all attendees were via WebEx.

Chair Datz called the meeting to order at 10:00 a.m., introduced the Awards Committee Members, and confirmed that there was an in person quorum of the Committee membership present.

Public Comments:
Chair Datz recognized the public comment speaking period and opened the meeting floor to public comments. No public comments were provided by email, phone or videoconference.

Awards:

1. Approval of the minutes from the last meeting (10/28/2021). Chair Datz verbally presented the Committee Members the proposed October 28, 2021 minutes contained in the committee packet.

   MOTION: Hai Vu made a motion to approve the October 28, 2021 minutes (Award Item 1). The motion was seconded by Joe Orfano and approved unanimously by the Awards Committee (5-0).

The Committee Members reviewed and discussed the following Awards Items 2-5:

2. 1410430846- Request approval to rescind this solicitation, and reject all Bids received in anticipation of continuing to purchase under the current contracted agreement.

   MOTION: Hai Vu made a motion to approve Award Item 2 as presented in the committee packet. The motion was seconded by Laura Dutton and approved unanimously by the Awards Committee (5-0).

3. Request approval to award a six (6) month contract extension to Presidio Networked Solutions, LLC for Cisco SMARTnet - Equipment Support and Maintenance of JEA's Cisco Infrastructure, in the amount of $327,537.38, for a new not-to-exceed amount of $3,018,922.74 subject to the availability of lawfully appropriated funds.

   MOTION: Joe Orfano made a motion to approve Award Item 3 as presented in the committee packet. The motion was seconded by Hai Vu and approved unanimously by the Awards Committee (5-0).

4. 1410435646 – Request approval to award a contract to Xylem Dewatering Solutions Inc. ($706,333.92) and Thompson Pump & Mfg Co Inc. ($290,927.00) for the FY22 Water/Wastewater (W/WW) Purchase of Fixed Diesel Pumps for Storm Resiliency, for a total not-to-exceed amount of $997,260.92, subject to the availability of lawfully appropriated funds.

MOTION: Laura Dutton made a motion to approve Award Item 4 as presented in the committee packet. The motion was seconded by Todd Skinner and approved unanimously by the Awards Committee (5-0).

5. Request approval to award a contract increase to ABB Enterprise Software Inc. for the purchase of substation transformers in the amount $905,365.00 for a new not-to-exceed contract amount of $4,160,229.00, and no change to the current SPX $10,054,615.60.00 for a new total not-to-exceed amount of $14,214,844.60, subject to the availability of lawfully appropriated funds.

   MOTION: Hai Vu made a motion to approve Award Item 5 as presented in the committee packet. The motion was seconded by Joe Orfano and approved unanimously by the Awards Committee (5-0).

Informational Item:

No informational items were presented to the Awards Committee.

Ratifications:

No ratifications were presented to the Awards Committee

Public Comments:

No additional public comment speaking period was taken.

Adjournment:

Chair Datz adjourned the meeting at 10:17 a.m.

NOTE: These minutes provide a brief summary only of the Awards Committee meeting. For additional detail regarding the content of these minutes or discussions during the meeting, please review the meeting recording. The recording of this meeting as well as other relevant documents can be found at the link below: https://www.jea.com/About/Procurement/Awards_Meeting_Agendas_and_Minutes/

Formal Bid and Award System

Award #2 November 18, 2021

Type of Award Request: DEVELOPER AGREEMENT
Request #: 267
Requestor Name: Russell, Brad L. - Water Wastewater Engineer
Requestor Phone: (904) 665-7683
Project Title: South East Quadrant (SEQ) Stillwood Pines Phase 1 Reclaimed Water Main Project
Project Number: 8007097
Project Location: JEA
Funds: Capital
Award Estimate: $473,329.00
Scope of Work:

Phase 1 reimbursable work is an open-cut installation of approximately 960 LF of 30" reclaimed water main with associated fittings and valves. JEA Planning will administrate this as a Cost Participation project. The timing of the Cost Participation will follow the Developer's schedule.

Purchasing Agent: King, David
Is this a ratification?: NO
If yes, explain:

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
RYALS CREEK COMMUNITY DEVELOPMENT	Jeffrey Pinder	pinderj@whhassociates.com	2300 Glades Road, Suite 410W, Boca Raton, FL 33431	(561) 571-0010	$395,820.94

Amount for entire term of Contract/PO: $395,820.94
Award Amount for remainder of this FY: $395,820.94
Length of Contract/PO Term: Project Completion
Begin Date (mm/dd/yyyy): 05/12/2021
End Date (mm/dd/yyyy): Project Completion (Estimated: December 2021)
JSEB Requirement: N/A - Developer Agreement
BIDDERS:

Name	Total Amount	JEA Portion
RYALS CREEK COMMUNITY DEVELOPMENT – VALLENCOURT	$12,854,136.42	$395,820.94
SUPERIOR CONSTRUCTION COMPANY	$15,803,000.00	N/A
J B COXWELL CONTRACTING INC.	$17,595,647.00	N/A

Background/Recommendations:

The South East Quadrant (SEQ) Stillwood Pines Phase 1 Reclaimed Water Main Project is part of the Ryals Creek Community Development District (CDD) and JEA Cost Participation Agreement dated September 8, 2021. The Agreement outlines that certain JEA system improvements are reimbursable to the

Developer. Per the Agreement, JEA will reimburse the Developer Assignee, Ryals Creek Community Development, for the improvements associated with the SEQ Stillwood Pines Phase 1 Reclaimed Water Main Project.

This project segment is an open cut installation of approximately 960 LF of 30" reclaimed water main with associated fittings and valves. This is a component of a connection between southern extent of the 30" north-south reclaimed transmission line at JTB and a proposed segment to the south to be constructed under SEQ project 417-47 which will connect to the existing segment along E-Town Parkway via a small segment currently under construction under E-Town/Toll Brothers project 417-93 on parcel E8.

The Developer requested bids for all the utility work and the project was awarded based upon the lowest lump sum total. The Developer has followed JEA procurement directives by advertising and awarding to the lowest responsible bidder. The solicitation was advertised and bids opened on February 17, 2020. All of the bidders are listed above with Vallencourt, being the lowest bidder at $12,854,136.42. Vallencourt's line item bid for the JEA reimbursable work was $395,820.94. This is substantially lower than JEA's estimate of $473,329.00 and is deemed acceptable. Capital Budget has approved funding of $395,820.94 to cover the bid amount.

Request approval to award a contract to the developer, Ryals Creek Community Development, for the construction of the water main and reclaimed water main by Vallencourt for the SEQ Stillwood Pines Phase 1 Reclaimed Water Main Project in the amount of $395,820.94, subject to the availability of lawfully appropriated funds.

Manager: Mackey, Todd D. - Mgr W/WW System Planning
Director: Zammataro, Robert J. (Rob) - Dir W/WW Planning & Development
VP: Vu, Hai X. - VP Water Wastewater Systems

APPROVALS:

_____

Chairman, Awards Committee **Date**

_____

Budget Representative **Date**

Prepared by, Record and Return to:
Chris R. Strohmenger, Esq.
Burr & Forman LLP
50 N. Laura Street, Suite 3000
Jacksonville, Florida 32202

Doc # 2021238699, OR BK 19908 Page 165,
Number Pages: 37
Recorded 09/13/2021 11:10 AM,
JODY PHILLIPS CLERK CIRCUIT COURT DUVAL COUNTY
RECORDING $316.00

JEA UTILITY SERVICE AND COST PARTICIPATION AGREEMENT

THIS JEA UTILITY SERVICE AND COST PARTICIPATION AGREEMENT (this "Agreement") is made and entered into on this 8th day of September, 2021 ("Effective Date"), by and among SAWMILL TIMBER, LLC, a Florida limited liability company, whose address is 2963 Dupont Avenue, Suite 2, Jacksonville, Florida 32217, Attn: A.C. Skinner, III ("Sawmill"), RYALS CREEK COMMUNITY DEVELOPMENT DISTRICT, a local, special purpose governmental entity authorized by Chapter 190, Florida Statutes, whose address is 2300 Glades Road, Suite 410W, Boca Raton, Florida 33431, Attn: Craig Wrathell ("Ryals Creek CDD"), and JEA, a body politic and corporate whose address is 21 W. Church Street, Jacksonville, Florida 32202 ("JEA").

RECITALS

A. Sawmill and Ryals Creek CDD are the owners of several parcels of real property located in Duval County, Florida (the "Property") as depicted and described on the attached Exhibit "A" and Exhibit "A-1".

B. Sawmill intends to sell portions of the Property to third parties to be developed from time to time by such third parties (each a "Developer").

C. Sawmill has formed Ryals Creek CDD to construct, operate and maintain certain master infrastructure serving the Property, including certain water, sewer and reclaimed water infrastructure, as described and defined in this Agreement.

D. Sawmill, Ryals Creek CDD and JEA desire to extend JEA's water, wastewater and reclaimed water system ("JEA Utility System") to serve the Property so that JEA can provide service to the Property without imposing a burden on its existing customers.

E. JEA is willing to expand the JEA Utility System and to provide such service so that the Property and its occupants may have an adequate water and reclaimed water supply and wastewater disposal system subject to all of the terms and conditions of this Agreement.

F. The parties recognize that water is a natural resource of limited supply and wastewater treatment and disposal is a necessity for public health. Thus, the water supply and disposal of wastewater must be regulated and controlled and is subject only to a reasonable and beneficial use to assure an adequate supply of water and adequate wastewater treatment capacity for all members of the public served by JEA. The parties further recognize that the supply of water and wastewater disposal service by JEA to the Property is subject to

regulation, prohibition, limitation and restriction by local, state and federal governmental agencies as well as JEA.

NOW, THEREFORE, in consideration of the mutual undertakings and agreements contained in this Agreement and other good and valuable consideration, the receipt of which is hereby acknowledged, the parties hereby covenant and agree as follows:

1. **Recitals**. The above recitals are true and correct and form a material part of this Agreement.

2. **Definitions**. The parties agree that in construing this Agreement, the following words, phrases and terms shall have the following meanings:

a. "Agreement" means this Utility Service and JEA Cost Participation Agreement as it may be amended from time to time.

b. "CDD" means any Community Development District having jurisdiction over the Property as defined in Section 17a hereof, other than Ryals Creek CDD.

c. "Customer Installation" means all facilities on the customer's side of the Point of Delivery.

d. "Developer" means any person or entity that owns and develops any portion of the Property, together with its successors and assigns.

e. "Developer Improvements" means the portion of the Water, Sewer and Reclaimed Water facilities, if any, to be constructed by a Developer and dedicated to JEA pursuant to this Agreement, which will extend or expand the JEA Utility System to provide Water, Sewer and Reclaimed Water service to the Property.

f. "Development Unit" means a part of the Property which is being or which is to be developed as platted property or as an unplatted unit with a separate site plan and specific metes and bounds legal description.

g. "Engineer" means a Florida licensed, registered professional engineer selected by Ryals Creek CDD or Developer in connection with the Master Improvements or Developer Improvements, as the case may be.

h. "Existing Easement" means that certain Non-Exclusive Grant of Easement dated August 6, 2019, from Sawmill to JEA, recorded in Official Records Book 18901, page 504, public records of Duval County, Florida, as amended from time to time.

i. "FDEP" means the Florida Department of Environmental Protection, an agency of the State of Florida, or any successor agency.

j. "FDOT" means the Florida Department of Transportation.

k. "GPD" means gallons per day on an annual average basis.

l. "JEA Utility System" means all Water, Sewer and Reclaimed Water facilities and interests in real and personal property owned, operated, managed or controlled by JEA now or in the future and used to provide Water, Sewer and Reclaimed Water service to existing and future customers. The JEA Utility System ultimately includes the Master Improvements and Developer Improvements after acceptance of dedication by Ryals Creek CDD to JEA.

m. "Lot or Tract" means each separate subdivided building site.

n. "Main" means a pipe or conduit conveying Water, Reclaimed Water, Sewage or Wastewater.

o. "Manager" means the JEA Development Manager.

p. "Manuals" means the 2017 JEA Rules and Regulations for Water, Sewer & Reclaimed Water Services, 2021 JEA Water, Wastewater and Reclaimed Water Design Guidelines, 2015 Inspection Guidelines for Water, Sewer and Reclaimed Water and 2021 JEA Water and Wastewater Standards Manual, as amended from time to time.

q. "Master Improvements" means the portion of the Water, Sewer and Reclaimed Water facilities to be constructed by Ryals Creek CDD (or elected to be constructed by any Developer as expressly permitted herein) and dedicated to JEA pursuant to this Agreement, which will extend or expand the JEA Utility System to provide Water, Sewer and Reclaimed Water service to the Property.

r. "Plans and Specifications" means those documents and drawings prepared by the Engineer and approved by JEA for the design and construction of certain Water, Sewer and Reclaimed Water facilities.

s. "Point of Delivery" means the point where the JEA's service line is connected to the customer's line and unless otherwise indicated by JEA, the Point of Delivery shall be at a point on the customer's lot line.

t. "Projected Development Schedule" shall be the schedule of Water, Sewer and Reclaimed Water capacity as shown on Exhibit "B".

u. "Property" means the real property shown on Exhibit "A" and described on Exhibit "A-1".

v. "PUD" means that certain Planned Unit Development approved by the City of Jacksonville under Ordinance 2019-235-E, as may be amended from time to time.

w. "Reclaimed Water" or "Reuse Water" means wastewater that has been stored and treated in accordance with the treatment and water quality requirements for reclaimed water for public access and residential irrigation reuse as established in the applicable Chapter of the Florida Administrative Code, which will be provided

by JEA at pressure ranges established by JEA to all retail customers within the Property.

x. "Schedule of Values" means a schedule showing the allocation of the contract price as to the improvements contemplated herein to be constructed by Ryals Creek CDD and/or a Developer related to the JEA Utility System.

y. "Service Notice" means the written notice Developer provides to JEA of Developer's intent to commence construction of a Development Unit within the Property and to request a pre-construction meeting with JEA.

z. "Sewage" or "Wastewater" means water-carried wastes from residences, business buildings, institutions, industrial establishments and other customers of the JEA Utility System.

aa. "SJRWMD" means the St. Johns River Water Management District.

bb. "TMA Road" shall mean the regionally significant roadway to be constructed by Ryals Creek CDD on the Property, as shown on Exhibit "A", and which shall contain within its right of way certain components of the Master Improvements.

cc. "Water" means potable water meeting the applicable federal, state and local laws and regulations for human consumption, fire protection, and consumption by business and industry.

dd. "Water and Sewer Capacity" and "Reclaimed Water Capacity" means the readiness and ability of JEA to furnish Water, Sewer, and Reclaimed Water service at pressure (at pressure ranges established by JEA for the applicable uses) to each Lot or Tract in accordance with applicable governmental requirements and regulations. Capacity relating to Water, Sewer, and Reclaimed Water is typically expressed as a rate of flow measured in GPD.

ee. "Water and Sewer Facilities and Reclaimed Water Facilities" means all facilities, including but not limited to, water plants, wells, pumps, treatment, production, transmission and distribution mains, meters and other appurtenant facilities for the provision of piped water onto the Property and/or, lift stations, treatment, gravity sewer mains, sewer force mains, pumps and other appurtenant facilities to collect, transmit, treat and dispose of sewage from the Property and/or reclaimed water treatment, storage and pumping, production, transmission and distribution mains, meters and other appurtenant facilities for the provision of piped reclaimed water onto the Property.

3. **Term**. This Agreement shall remain valid and effective through December 31, 2040.

4. **Design and Construction of Certain Water, Sewer and Reclaimed Water Facilities**. With respect to the portions of the JEA Utility System to be completed by Ryals Creek CDD or a Developer in accordance with Sections 5, 6 and/or 7 below, such improvements

shall be designed in accordance with JEA standards and otherwise consistent with Exhibits "C", "D" and "E" attached hereto, as applicable, except as otherwise set forth herein, including in Section 9(k) below. Additionally, all Plans and Specifications for such improvements shall be submitted to JEA for its review and approval prior to construction in accordance with the JEA Water, Wastewater and Reclaimed Water Design Guidelines. The Plans and Specifications may be limited to the improvements necessary to serve only one Development Unit or certain Development Units, and Plans and Specifications for subsequent Development Units may be furnished from time to time by a future Developer for JEA's review and approval prior to construction of subsequent Development Units. The Plans and Specifications shall be prepared in accordance with the JEA Water, Wastewater and Reclaimed Water Design Guidelines. Permitting shall be handled in accordance with the standard processes as set forth in the Manuals, except as otherwise set forth herein, including in Section 9(k) below.

5. **JEA-Design and Construction of Raw Water Main Facilities**. As part of the JEA Utility System, JEA requires the installation of a 30" raw water main along the southern boundary of the Property as generally depicted and described on Exhibit "C" (the "Southern RW Main Facility"). JEA will provide design and construction services at its sole cost related to the installation of the Southern RW Main Facility. JEA shall be required to obtain easements from private landowners in connection with the installation of the Southern RW Main Facility. The exact location and path of the Southern RW Main Facility shall be determined at the time of utility design. The parties will cooperate reasonably with each other to finalize the exact location of such Southern RW Main Facility, taking into account existing and proposed improvements on adjacent lands, the impact of such easement on the adjacent lands, increased construction or development costs of adjacent lands due to the location of the easement (*e.g.*, within or outside of proposed or existing rights of way), existing conditions within the proposed easement area, and any requirements to provide landscaping or buffering to adjacent lands, including under the PUD. Hampton Park Association, Inc. ("Hampton Park POA") is the owner of the land immediately south of the proposed Southern RW Main Facility depicted on Exhibit "C" (the "Hampton Park POA Land"). Prior to the parties finalizing the location of the Southern RW Main Facility, JEA agrees to use commercially reasonable efforts to obtain a utility easement from Hampton Park POA such that the Southern RW Main Facility may be located on a portion of Hampton Park POA Land (provided, JEA's failure to obtain such easement from Hampton Park POA shall not limit the obligation of Sawmill to grant JEA an easement for the Southern RW Main Facility). However, in no event shall JEA be required to institute condemnation or taking efforts with respect to the Hampton Park POA Land, or purchase easement rights in such land for a cost exceeding fair market value as determined by an independent, third party appraiser selected by JEA. JEA shall pay the cost of the survey, title insurance, recording costs related to the conveyance of the required easements for the Southern RW Main Facility. Sawmill agrees to dedicate to JEA the portion of such easement located on its land for no consideration (in substantially the same form as the Existing Easement); however, JEA shall be responsible for the cost and fair market consideration for any portion of the easement located on land not owned by Sawmill. JEA acknowledges that Ryals Creek CDD, Sawmill or another Developer intends to construct a roadway on portions of the land encumbered by the Southern RW Main Facility as depicted on Exhibit "C" attached hereto. Accordingly, JEA warrants that its construction of the Southern RW Main Facility shall not in any way limit the construction of such future road or materially increase the construction costs therefor. JEA further agrees that

it will be responsible for any (i) increased construction costs as a result of adverse conditions within such right of way area directly resulting from JEA's construction of the Southern RW Main Facility and (ii) costs incurred by Ryals Creek CDD, Sawmill or another Developer resulting from the relocation or modification of the Southern RW Main Facility in the event the right of way cannot be completed as set forth on Exhibit "C" attached hereto.

6. **Design and Construction of 30" Transmission Reuse Main**. As part of the JEA Utility System, JEA requires the installation of a 30" transmission reuse main (the "Transmission Reuse Main") within a portion of the Property generally depicted on Exhibit "D" attached hereto. The Transmission Reuse Main may be completed in one or more phases as set forth below, it being acknowledged and agreed that the Transmission Reuse Main may be completed by Ryals Creek CDD, or any CDD or Developer, or JEA as set forth herein, as and when the needs arise.

a. **Phase 1 - 30" Transmission Reuse Main**. Notwithstanding anything herein to the contrary, Ryals Creek CDD shall be responsible for the design, permitting and construction of the first (1st) phase of the Transmission Reuse Main as shown on Exhibit "D" (the "Phase 1 Transmission Reuse Main"), as part of its completion of the Master Improvements and TMA Roadway construction; provided, however, JEA shall be responsible to reimburse Ryals Creek CDD for all such costs related to Phase 1 Transmission Reuse Main in accordance with Section 9a. below. In the event that efforts to complete the Phase 1 Transmission Reuse Main by Ryals Creek CDD are delayed or interrupted for a period of one hundred (150) consecutive days, JEA shall have the right, but not the obligation, to take over the completion of the Phase 1 Transmission Reuse Main at any time thereafter upon the provision of thirty (30) days written notice. If JEA exercises its right to construct any portion of the Phase 1 Transmission Reuse Main as permitted herein, JEA shall remain responsible to reimburse Ryals Creek CDD for any costs incurred by Ryals Creek CDD with respect to the Phase 1 Transmission Reuse Main, with such payment being due no later than the date JEA commences construction of the applicable portion of such Phase 1 Transmission Reuse Main. Upon completion of the Phase 1 Transmission Reuse Main, Ryals Creek CDD shall dedicate the same to JEA, at no additional expense to JEA except as set forth herein. If such Phase 1 Transmission Reuse Main is completed and conveyed to JEA for maintenance prior to the dedication of the applicable portion of the TMA Roadway to the City, Sawmill agrees to grant JEA, at no cost to JEA other than closing costs, a non-exclusive easement for the Phase 1 Transmission Reuse Main in a form satisfactory to JEA . JEA shall pay the cost of the survey, title insurance, recording costs, and any other closing costs related to the conveyance of the easement(s) contemplated herein.

b. **Phase 2 - 30" Transmission Reuse Main**. Subject to the terms of this Section 6, any Developer that owns a portion of the Property within or adjacent to the Phase 1 Transmission Reuse Main or the Phase 2 Transmission Reuse Main (as defined below) shall have the right, but not the obligation (except as expressly set forth herein), to construct the second (2nd) phase of the Transmission Reuse Main as generally shown on Exhibit "D" (the "Phase 2

Transmission Reuse Main"), or any portion thereof as required for such Developer's project. Notwithstanding anything in the previous sentence to the contrary, if any Developer commences construction of any portion or segment of the right of way depicted on Exhibit "D" attached hereto as "Road A", "Road B" or "Road C", such Developer shall be required to install the Phase 2 Transmission Reuse Main in such segment of the right of way pursuant to the terms hereof. To the extent a Developer elects to construct some or all of the Phase 2 Transmission Reuse Main, such Developer shall provide sixty (60) days' prior written notice to JEA, Ryals Creek CDD and Sawmill of such election and identify in such notice the portion of the Phase 2 Transmission Reuse Main that such Developer intends to construct (any Developer constructing a portion of the Phase 2 Transmission Reuse Main shall be referred to herein as the "Constructing Party"). To the extent there is more than one Constructing Party at any time, each such Constructing Party shall coordinate such construction with the other. Each Constructing Party shall cause the design, permitting and construction of the applicable portion of the Phase 2 Transmission Reuse Main as generally shown on Exhibit "D"; provided, however, JEA shall be responsible to reimburse the Constructing Party for all such costs related to these improvements in accordance with Section 9a. below (the "Transmission Reuse Main Reimbursable Costs"). Each Constructing Party shall also have the right to connect distribution mains to the JEA provided stubouts along the Phase 2 Transmission Reuse Main in accordance with JEA approved design as necessary to serve the development on the adjacent Property. Upon completion of the applicable portion of the Phase 2 Transmission Reuse Main, the Constructing Party shall dedicate the same to JEA at no additional expense to JEA other than the Transmission Reuse Main Reimbursable Costs and the Transmission Reuse Main Easement Costs (as defined below). If such portion of the Phase 2 Transmission Reuse Main is completed and conveyed to JEA for maintenance prior to the dedication of the applicable portion of the right of way to the City, the owner of the applicable portion of the Phase 2 Transmission Reuse Main agrees to grant JEA, at no cost to JEA other than Transmission Reuse Main Easement Costs, a non-exclusive easement for such improvements in substantially the same form as the Existing Easement. The parties acknowledge that the depiction of the Phase 2 Transmission Reuse Main on Exhibit "D" is conceptual in nature and is subject to change as set forth herein, including based on the final location of the right of way generally depicted on Exhibit "D". The parties desire for the Phase 2 Transmission Reuse Main to be located within a future right of way to minimize the impact on development of the remaining Property. However, in the event that (i) a right of way has not been constructed at the time installation of the Phase 2 Transmission Reuse Main is to commence (and installation of the Phase 2 Transmission Reuse Main is not being completed as part of the construction of the right of way), (ii) the final location of the proposed right of way is materially different than the location of the right of way depicted on Exhibit "D" attached hereto, or (iii) the final location of the proposed right of way has not yet been identified, then, in either event, the parties shall cooperate reasonably with each other to approve an alternate location of the Phase 2

Transmission Reuse Main, taking into account existing and proposed improvements on adjacent lands, the impact of the location of the Phase 2 Transmission Reuse Main on the adjacent lands, increased construction or development costs of adjacent lands due to the location of the Phase 2 Transmission Reuse Main (*e.g.*, within or outside of proposed or existing rights of way), existing conditions within the proposed area for the Phase 2 Transmission Reuse Main, and any requirements to provide landscaping or buffering to adjacent lands (collectively, the "Phase 2 Transmission Reuse Main Considerations"). The parties acknowledge that an alternate location of the Phase 2 Transmission Reuse Main may include an area on the west side of the Compensatory Storage Pond as generally depicted on Exhibit "D-1" attached hereto ("Alternative Phase 2 Transmission Reuse Main Location"). Once the parties have finalized the plans for the Phase 2 Transmission Reuse Main and said plans have been approved by JEA, this Section 6(b) shall be deemed amended and updated so that the final location of the Phase 2 Transmission Reuse Main shall be as set forth on the recorded plat or easement dedicating such Phase 2 Transmission Reuse Main to JEA. In the event the portion of the Phase 2 Transmission Reuse Main is not installed within a right of way or in the Alternative Phase 2 Transmission Reuse Main Location, JEA will be required to purchase at fair market value the additional easement area on terms and conditions to be approved by the easement owner and JEA which shall take into account the Phase 2 Transmission Reuse Main Considerations, as applicable. JEA shall be responsible to pay the cost of the survey, title insurance, recording costs, and any other closing costs related to the conveyance of the easement(s) contemplated herein, subject to F.A.C. Rule 12B-4.013 (the items in previous two (2) sentences are collectively referred to as the "Transmission Reuse Main Easement Costs"). Notwithstanding anything herein to the contrary, with respect to any portion of the Phase 2 Transmission Reuse Main that has not then been commenced within ten (10) years following the Effective Date, upon six (6) months' prior written notice to Ryals Creek CDD and each Developer owning any portion of the Phase 2 Transmission Reuse Main, JEA may elect to complete Phase 2 Transmission Reuse Main unless within thirty (30) days from the date of such notice, a Developer provides written notice of its election to commence construction of a portion of the Phase 2 Transmission Reuse Main within the next three hundred and sixty five (365) days, in which event JEA's election shall be null and void as to that portion of the Phase 2 Transmission Reuse Main. If JEA exercises its right to construct any portion of the Phase 2 Transmission Reuse Main as permitted herein, JEA shall remain responsible to reimburse each Constructing Party for any costs incurred by such Constructing Party with respect to the Phase 2 Transmission Reuse Main, with such payment being due no later than the date JEA commences construction of the applicable portion of such Phase 2 Transmission Reuse Main.

7. **Design and Construction of Sewer Facilities.** The Master Improvements set forth in this section are described in the attached "Sewer" Exhibit "E."

a. **Kernan Blvd. Wastewater Connection Point**. JEA agrees to provide Sewer service of up to 600 Gallons Per Minute (GPM) (peak hourly flow) for the Property and the remaining lands subject to the PUD upon connection to the existing twelve (12) inch Sewer Force Main located at the southern end of Kernan Boulevard as generally depicted on Exhibit "E". Ryals Creek CDD agrees, at its expense, to cause the design, permitting and construction of a ten (10") inch Sewer Force Main connection to the existing twelve (12) inch Sewer Force Main located at the southern end of Kernan Boulevard, all as shown on Exhibit "E." Following completion, Ryals Creek CDD shall convey this improvement along with all necessary non-exclusive easements (and Sawmill agrees to join in such easements as necessary) to JEA at no expense to JEA".

b. **I-295 Wastewater Connection Point; Master Pump Station**. JEA agrees to provide Sewer service for the Property upon connection to the existing 16 inch Sewer Force Main located on the eastern boundary of I-295 as generally depicted on Exhibit "E". The parties acknowledge that this connection will utilize and is dependent upon the completion of a master pump station (the "Master Pump Station") to be constructed by Ryals Creek CDD, as generally depicted on Exhibit "E". Ryals Creek CDD agrees, at its expense, to cause the design, permitting and construction of the Master Pump Station and the sixteen (16") inch Sewer Force Main connection to the existing 16 inch Sewer Force Main, all as described on Exhibit "E"; it being acknowledged, however, that the following exceptions apply to the Master Pump Station design and construction requirements: (i) a boom crane is not required; (ii) solids management system is not required; (iii) odor control unit is not required (however, pad and piping including gravity drain and vacuum piping will be included with design and construction); and (iv) a single pony pump will be required (however, piping for a second pony pump will be included with design and construction). Ryals Creek CDD agrees that the Master Pump Station shall be designed and built in accordance with the Manuals and the criteria and schematic drawing set forth in the attached Exhibit "E." If there is a conflict between the Manuals and the criteria contained in this Agreement, the criteria in this Agreement shall control. Following completion of the Master Pump Station and Sewer Force Main connection, Ryals Creek CDD shall convey to JEA the Master Pump Station and an area adjacent thereto (not to exceed 100' x 100'), along with the Sewer Force Main connection and all necessary non-exclusive easements therefor (and Sawmill agrees to join in such easements as necessary), at no expense to JEA.

c. **Remaining Sewer Service and Facilities**. JEA represents and warrants to Sawmill, Ryals Creek CDD and each Developer that the existing sewer facilities servicing the lands within the PUD are sufficient to provide a minimum of 3,178 Equivalent Residential Connections or its equivalent (collectively, "ERCs") within the PUD (the "Current Sewer Capacity")(it being acknowledged that sewer service for 878 ERCs flows through the Kernan Blvd. Connection Point described in Section 7(a) above and sewer service for 2,300 ERCs flows through the I-295 Wastewater Connection Point described in Section 7(b) above). Subject to Developer's compliance with the

terms and conditions of this Agreement, JEA will provide sewer service necessary to serve the Property as requested by the Developer pursuant to a Service Notice to JEA, and in an amount not exceeding the Current Sewer Capacity. Prior to the time that the Current Sewer Capacity has been exhausted under the existing JEA facilities (and upon such earlier event as set forth in this Section 7(c)), JEA shall, at its sole cost, design, permit, construct and complete the off-site improvements (the "Off-Site Sewer Improvements") as described in Exhibit "F" attached hereto or as otherwise required to provide sewer service to the lands within the PUD in the capacities set forth in the Projected Development Schedule attached hereto as Exhibit "B". JEA agrees that it shall be responsible, at its sole cost and expense, to secure all necessary easements and right-of-way and provide or pay for any wetland mitigation required for the construction of these Off-Site Sewer Improvements, which JEA covenants to secure and/or pay as and when necessary to avoid any delay in completing the Off-Site Sewer Improvements as required herein. Following completion of the Off-Site Sewer Improvements, the connection point for the remaining development flow from the Property will be the sixteen (16) inch force under Interstate 295 adjacent to the on-site master station as depicted on Exhibit "E". Notwithstanding the foregoing to the contrary, from and after the date hereof, JEA shall be responsible to monitor the sewer flow through the existing JEA sewer facilities serving the lands within the PUD. At such time as the development within the PUD exceeds 2,500 permitted ERCs or its equivalent (the "Sewer Commencement Threshold"), JEA shall commence construction of the Off-Site Sewer Improvements. Additionally, in the event Sawmill or Ryals Creek CDD delivers written notice to JEA (the "Commencement Notice") that, in the aggregate, (a) existing projects within the PUD and (b) sales contracts for planned projects within the PUD that are anticipated to close within twelve (12) months from the date of such Commencement Notice will exceed the Sewer Commencement Threshold (provided that if one or more sales contracts are thereafter terminated so as to reduce development within the PUD below the Sewer Commencement Threshold, Sawmill or Ryals Creek shall deliver written notice to JEA of recission of the Commencement Notice as soon as reasonably possible but no later than thirty (30) days' following such termination), JEA shall commence construction of the Off-Site Sewer Improvements within twenty-four (24) months of the date of such Commencement Notice. In any event, following JEA's commencement of such Off-Site Sewer Improvements, JEA shall thereafter use commercially reasonable efforts to complete such Off-Site Sewer Improvements no later than eighteen (18) months from such commencement. Additionally, if (i) JEA fails to timely commence and/or complete the Off-Site Sewer Improvements as set forth herein, or (ii) Ryals Creek CDD, Sawmill and/or any Developer elects to construct the Off-Site Sewer Improvements prior to JEA's commencement of the Off-Site Sewer Improvements, then in either event, upon sixty (60) days' prior written notice to JEA, Ryals Creek CDD, Sawmill and/or any Developer shall have

the right (but not any obligation, and without waiving any other remedies set forth herein) to take over such Off-Site Sewer Improvements project and complete the same (such party electing to take over the construction of any portion of the Off-Site Sewer Improvements shall be referred to a "Constructing Party" for purposes of this Section 7(c) and Section 9 as the context requires). In such event, JEA shall be responsible to reimburse the Constructing Party in accordance with Section 9(a) below for all costs and expenses incurred in completing the Off-Site Sewer Improvements, including the cost to design, permit and construct the Off-Site Sewer Improvements, the cost to secure all necessary easements and right-of-way and the cost to provide or pay for any wetland mitigation required for the construction of these Off-Site Sewer Improvements. Additionally, if JEA fails to complete the Off-Site Sewer Improvements as and when required herein (and regardless if any other party elects to take over the completion of such Off-Site Sewer Improvements), JEA acknowledges that such failure will cause significant delays and damages to owners of land within the Property. Accordingly, JEA shall be liable for, and consents to an action being filed to recover, all damages suffered by Ryals Creek CDD, Sawmill and any Developer, including consequential damages (notwithstanding anything in this Agreement to the contrary), subject to the limitations and provisions set forth in Section 768.28, Florida Statutes.

8. **Dedication of Improvements.** Upon satisfactory completion of the Water, Sewer and Reclaimed Master Improvements constructed by Ryals Creek CDD and/or a Developer, Ryals Creek CDD or Developer, as applicable, shall dedicate each individual improvement to JEA along with all necessary easements and documentation as necessary for that purpose (and the owner of the applicable portion of the Property shall join in the execution of such easements as may be necessary), including but not limited to, a bill of sale, as-built drawings, schedule of values and a waiver and release of lien both in form acceptable to JEA in accordance with the acceptance process set forth in the Manuals. Upon receiving the required documentation, JEA will issue a utility acceptance letter and take on ownership, operation and maintenance authority of the installed Master Improvements and/or Developer Improvements which shall become part of the JEA Utility System. Ryals Creek CDD and each Constructing Party shall cause its contractor to continue to be responsible for the repairs and replacements required as covered by and described in the warranty made directly to JEA for customary warranty, as required by JEA and as further set forth in the construction contract between Ryals Creek CDD or the Constructing Party and its contractor.

9. **General Requirements**.

a. **JEA Reimbursement of Construction Costs**. As to any Master Improvements or Developer Improvements for which JEA is required herein to reimburse Ryals Creek CDD or a Constructing Party for the construction costs, JEA shall reimburse such party pursuant to an application for payment delivered to and approved by JEA's Manager no more frequently than once per month (for the applicable project) for work performed since the prior application for payment. JEA shall make such payment not later than thirty (30) days from the submittal to JEA of the approved

application for payment in satisfactory form. Additionally, JEA shall be required to reimburse Ryals Creek CDD or the Constructing Party, as applicable, for all change orders issued in connection with the project if reviewed and approved by JEA. To the extent Ryals Creek CDD or any Developer is required herein or by any agreement with JEA or a construction contract approved by JEA to perform inspection, quality control or surveying services in connection with the Master Improvements, such costs shall also be reimbursable by JEA in accordance with this Section 9(a). Upon satisfactory completion of the work in accordance with the project closeout and acceptance process, Ryals Creek CDD or the Constructing Party, as applicable, shall submit to JEA a request for final payment for the balance of the contract amount. Upon review and approval by the JEA Manager, JEA will pay the balance of the lump sum contract price (plus soft costs and any unpaid change orders), not later than thirty (30) days from the submittal to JEA of the approved request for final payment in satisfactory form. Ryals Creek CDD or the Constructing Party, as applicable, warrants and guarantees that title to all work, materials, and equipment covered by any application for payment whether incorporated in the project or not will pass to JEA no later than the time of payment free and clear of all liens, judgments, encumbrances and mortgages.

b. **Inspection**. During construction of the Master Improvements, JEA's contract administration representative shall have the continuing right to inspect such installations to determine compliance with the Plans and Specifications. JEA shall have the right to control the quality of the installation and further, shall be entitled to perform standard tests for pressure, exfiltration, infiltration, line and grade, and all other normal engineering tests to determine if the system has been installed in accordance with the Plans and Specifications and good engineering practice, but it shall remain the responsibility of the Developer's Engineer to certify that such construction by the Developer complies with approved Plans and Specifications and applicable regulatory requirements; provided, however, the cost incurred for the Developer's Engineer to make such certification shall be reimbursable by JEA in accordance with the provisions of Section 9(a) above.

c. **Projected Development Schedule**. Each Development Unit shall conform to the Projected Development Schedule, which may be modified only with the prior written consent of JEA, which consent shall not be unreasonably withheld.

d. **Intentionally deleted**.

e. **Reclaimed Water Usage**. All of the Development Units within the Property shall be required to utilize reclaimed water in accordance with the current JEA policies and regulations and no waivers to exclude Development Units shall be sought by the Developer.

f. **Permits**. Except as expressly set forth herein to the contrary, the party responsible for the design of a utility facility shall be responsible for procurement of all applicable permits required for its construction and will submit to the other party a copy of each permit issued for the project (such as, FDEP, SJRWMD, applicable FDOT, local government right-of-way permits, railroad crossing approvals, etc.).

g. **Bid Notice**. To the extent not inconsistent with the provisions of Chapter 190, Florida Statutes, Ryals Creek CDD, as to the Master Improvements, and each Constructing Party, as to the Developer Improvements, agrees to abide by the JEA Procurement Code as to the advertisement and notice provisions on any Master Improvement for which JEA is responsible for reimbursing for the cost of construction. Bid results shall be submitted to JEA for approval prior to construction. JEA shall have fifteen (15) days within which to accept the bid, reject the bid, or request a new bid. A request for a re-bid can only be made by JEA for JEA reimbursable portions of the bid. Once the bids have been approved, JEA shall be responsible for the cost of construction of the applicable Master Improvement(s) and/or Developer Improvement(s) (and if the applicable Master Improvement(s) and/or Developer Improvement(s) are not constructed in conjunction with the development of Ryals Creek CDD's and/or Constructing Party's adjacent land, such reimbursable costs shall also include the cost of all design engineering and design surveying work incurred by Ryals Creek CDD and/or the Constructing Party prior to such bid approval date). If all bids are unacceptable to JEA, JEA shall have the right to reject all such bids and construct the work itself. Should JEA choose to bid and construct the project itself, JEA shall be responsible for the costs of additional engineering and construction management services. Unless JEA notifies Ryals Creek CDD or a Constructing Party, as applicable, at the time of bid review with regard to any segment of the Master Improvements or Developer Improvements that JEA desires to construct or contract independently in its own name, then Ryals Creek CDD or the Constructing Party, as applicable, shall contract for construction of such improvements in the name of Ryals Creek CDD or the Constructing Party, as applicable, at JEA's expense in accordance with the payment procedures set forth in Section 9a.

h. **Bonds**. Ryals Creek CDD and any Constructing Party shall cause its contractor to provide a payment and performance bond for the benefit of JEA prior to commencement of construction of the improvements for which JEA is responsible for reimbursing for construction costs.

i. **CDD Bid Guidelines**. Ryals Creek CDD (and any other CDD to which Ryals Creek CDD or a Developer assigns its rights hereunder) shall solicit bids for construction of improvements in accordance with Section 255.20, Florida Statutes, and in accordance with the JEA Procurement Code, and any contractor awarded a contract shall be required to provide a bond required pursuant to Section 255.05, Florida Statutes, for the benefit of JEA and Ryals Creek CDD and/or other CDD, as applicable, prior to commencement of construction of such improvements. If JEA shall elect to have Ryals Creek CDD or another CDD construct such improvements, then JEA shall reimburse Ryals Creek CDD or the other CDD, as applicable, per Section 9a of this Agreement. Following completion of construction of any of the improvements for which Ryals Creek CDD or other CDD, as applicable, causes the construction of, Ryals Creek CDD or other CDD, as applicable, shall cause the dedication of the improvement to JEA.

j. **Reimbursement to be Based on Contract**. Notwithstanding anything in this Agreement to the contrary, any reimbursement to be made by JEA under this Agreement shall be based on the cost as set forth in the applicable contract for the project and not based on the lowest bid for an individual component of work set forth in another bid that was not awarded the project.

k. **Separation Requirements.** With respect to any component of the Water and Sewer Facilities or Reclaimed Water Facilities to be constructed in the PUD, the required separation between structures or landscaping and Water, Sewer and Reclaimed Water facilities shall be as required in the Manuals, Design Guidelines and Standards, except as set forth to the contrary in the Exhibits attached hereto. To the extent of any inconsistency between (i) the Manuals, Design Guidelines or Standards and (ii) the Exhibits, the Exhibits shall control. In the event Developer utilizes any mitigation as depicted in the Exhibits, Developer, and Sawmill and Ryals Creek CDD as applicable, shall indemnify and execute a hold harmless agreement in favor of JEA.

10. **Operation and Maintenance of Improvements**. Upon acceptance and assumption of the responsibility for operation and maintenance of each individual Master Improvement or Developer Improvement, all customers connecting to those improvements shall be deemed customers of the JEA Utility System and JEA shall set and collect all Water, Sewer and Reclaimed Water rates, fees, charges and deposits, without exception. All property owners and customers must provide at their expense necessary individual service lines to the Point of Delivery as a condition precedent to receiving Water, Sewer and Reclaimed Water Service from JEA.

11. **Rates, Fees and Charges**. All Water, Sewer and Reclaimed Water Service shall be provided to the Property at applicable rates, fees and charges in accordance with the JEA Water and Sewer Rate Document, latest edition, as amended from time to time.

12. **Intentionally Deleted**.

13. **Allocation and Provision of Water and Sewer Capacity and Reclaimed Water Capacity**.

a. As of the date of this Agreement, a master plan of development has not been fully determined or designed for the Property and the Water and Sewer needs for the Property can only be estimated. Estimates to accommodate the Property for Water, Sewer and Reuse Water have been calculated on an annual average daily flow basis in the Projected Development Schedule attached as Exhibit "B" attached hereto. JEA, as the owner and operator of the JEA Utility System, upon dedication, may elect to direct additional flow through the system. JEA acknowledges that in the event any Mains described in Exhibits "C", "D" or "E" attached to this Agreement are required to be upsized due to flow demands off-site of the Property during the Term of this Agreement, neither the Sawmill, Ryals Creek CDD, nor any Developer of the Property, shall be responsible for such upsizing or for the impact of additional offsite flow.

b. Subject to Developer's compliance with the terms and conditions of this Agreement, JEA will provide Water and Sewer Capacity and Reclaimed Water Capacity necessary to serve the Property as requested by the Developer pursuant to a Service Notice to JEA, and in an amount not exceeding the annualized flow set forth in the Projected Development Schedule attached as Exhibit "B." Nothing in this Agreement, including the Projected Development Schedule, shall relieve any future JEA customers located within the Property from payment to JEA of applicable JEA installation and service charges which are consistent with the JEA Water and Sewer Rate Document, latest edition, as amended from time to time.

c. Following: i) the completed conveyance of applicable Master Improvements or Developer Improvements, in whole or in part, to JEA, ii) payment of applicable rates, fees and charges, iii) the physical connection of a given customer installation to the JEA Utility System, and iv) payment of applicable customer installation charges, JEA shall provide Water, Sewer and Reclaimed Water service to customers in the Property in accordance with the terms and conditions of this Agreement and in accordance with the Projected Development Schedule. Notwithstanding the above, JEA does not guarantee or warrant any special service, pressure, quality, or other facility.

d. Subject to the processes and provisions set forth in the Manuals, Developer shall provide to JEA a Service Notice at least thirty (30) days prior to Developer's commencing construction of a Development Unit within the Property. Prior to providing any Service Notice to JEA, Developer shall have provided JEA with the completed design and permitting for the applicable Developer Improvements, if any, with respect to Developer's Development Unit.

e. Notwithstanding anything to the contrary contained in this Agreement, the parties recognize that they may be required to obtain approvals from various environmental regulatory authorities having jurisdiction and regulatory power over the construction, maintenance and operation of the Water and Sewer Facilities and Reclaimed Water Facilities before JEA can render services to the Property. Each party will diligently make necessary and proper application to all such authorities and will use its best efforts to obtain such approvals for improvements which are to be permitted by such party. Applications for the approval of Plans and Specifications shall be forwarded by the Developer's Engineer to the applicable regulatory authorities subsequent to JEA's approval of such Plans and Specifications.

14. **Limitations on Liability**.

a. Each party hereto (and their permitted successors and assigns) shall be an independent contractor and neither shall be an agent of the other.

b. Neither party shall be liable or responsible to the other party as a result of injury to property or person or failure to comply with the terms of this Agreement proximately caused by force majeure and any deadlines for performance of an

obligation herein shall be tolled for the period during the event of force majeure; provided, however, any party affected by an event of force majeure shall provide written notice to JEA, Sawmill and Ryals Creek CDD within a reasonable period of time following the onset of the event of force majeure specifying the nature of the event of force majeure and the anticipated delay in performance. The term force majeure as employed in this Agreement shall be acts of God, strikes, lock-outs, or other industrial disturbances, acts of public enemy, wars, blockades, riots, acts of armed forces, epidemics, delays by carriers, and the inability to obtain materials or right-of-way on reasonable terms, acts of public authorities, acts of vandals, or other third parties, or any other causes whether or not of the same kind as enumerate herein that are not within the reasonable control of the parties, provided each party shall use its good faith efforts to overcome such force majeure event.

c. This Agreement is solely for the benefit of and shall be binding on the parties and their respective authorized successors and assigns and no right or cause of action shall accrue by reason of this Agreement to or for the benefit of any third party not a party to this Agreement or an authorized successor or assignee of this Agreement. Notwithstanding the foregoing, purchasers of unplatted portions of the Property are entitled to Water and Sewer Capacity and Reclaimed Water Capacity under this Agreement under the same terms and conditions of this Agreement.

Nothing in this Section shall be interpreted as waiving or abrogating JEA's right of sovereign immunity pursuant to Section 768.28, Florida Statutes or any successor statute.

15. **Default and Remedies**. In the event of a breach of this Agreement by one party, the other party shall have all the rights and remedies available at law or in equity. As to any material breach by either party under this Agreement, the breaching party shall proceed in good faith to use all reasonable action to cure such breach. In the event the breaching party fails to cure, non-breaching party may proceed at law or in equity to enforce its rights under this Agreement, including the right to specific performance and mandamus or to terminate this Agreement and recover damages. Each of the parties to this Agreement shall give the other party written notice of any defaults under this Agreement and shall allow the defaulting party thirty (30) days from the date of this receipt of such notice within which to cure any such defaults. Each party hereto agrees that it shall not be entitled to pursue or hereby waives consequential, punitive, special and indirect damages and lost profits.

16. **Notice**. Any notices required to allowed to be delivered under this Agreement shall be in writing and shall be deemed to be delivered when (1) hand delivered to the official designated below, or (2) upon such receipt of such notice when deposited in the United States Mail, Postage Prepaid, Certified Mail, Return Receipt Requested, addressed to a party at the address set forth under the parties name below or in the introductory paragraph of this Agreement, or at such other address as the party shall have specified by written notice to the other party delivered in accordance with this Agreement:

To JEA:	VP/GM Water Wastewater Systems JEA 21 West Church Street Jacksonville, Florida 32202 Director W/W/W Planning and Development JEA 21 West Church Street Jacksonville, Florida 32202
With a copy to:	Office of General Counsel City of Jacksonville 117 West Duval Street, Suite 480 Jacksonville, Florida 32202
Any Notices to Sawmill or Ryals Creek CDD shall include a copy to:	Burr & Forman LLP Chris R. Strohmenger, Esq. 50 N. Laura Street, Suite 3000 Jacksonville, Florida 32202

17. **Assignments**.

a. The rights and interests of the Sawmill, Ryals Creek CDD and any Developer under this Agreement may be assigned to any third party in connection with a bona fide sale, lease or other conveyance of either all of the Property or any portion of the Property to which the Water and Sewer Capacity or Reclaimed Water Capacity relates, provided JEA is notified in writing of such assignment and such assignee assumes (and delivered a signed assumption agreement to JEA) all of the liabilities and responsibilities under this Agreement as to the portion of the Property conveyed to such assignee and agrees as a condition to service hereunder, to obtain or cause to be obtained any easements or rights-of-way over and upon any portion of the Property as may be required to serve the portion of the Property conveyed to such assignee. Notwithstanding and in addition to the foregoing, Sawmill, Developer and/or Ryals Creek CDD may partially assign its rights and obligations under this Agreement to any CDD formed as a unit of special purpose government pursuant to Chapter 190, Florida Statutes having jurisdiction over any portion of the Property, to be constructed by such CDD in which event such CDD shall assume those obligations of the assigning party hereunder only as they relate to Master Improvements to be constructed by such CDD, and JEA is notified in writing of such assignment and delivers a signed assumption agreement to JEA. Upon any such permitted assignment under this Section, the assigning party shall be released from the obligations hereunder assumed by such permitted assignee, it being intended that upon assumption of obligations by any permitted assignee(s) this Agreement shall be independent agreements between JEA and such permitted assignees.

b. JEA shall have the right to assign or transfer this Agreement or the rights and responsibilities contained in this Agreement to a properly authorized commission, authority, corporation or other public or private person, firm, or entity who acquires all or substantially all of the assets of JEA and shall cause such assignee to assume all obligations of JEA hereunder.

18. **Binding Agreement on Successors**. This Agreement shall be binding upon and shall inure to the benefit of Sawmill, Ryals Creek CDD, JEA and their respective, permitted successors and assigns to the extent assigned and assumed by such assignee in accordance with this Agreement. Time is of the essence with respect to all provisions of this Agreement.

19. **Recordation**. The parties agree that an executed copy of this Agreement and exhibits shall be recorded in the public records of Duval County, Florida.

20. **Applicable Law and Venue**. This Agreement and the provisions contained in this Agreement shall be construed, controlled and interpreted according to the laws of the State of Florida. Litigation involving this Agreement shall take place in the state or federal courts located in Duval County, Florida.

21. **Representations and Warranties**.

a. Sawmill makes the following representations:

i. Sawmill is a limited liability company duly organized, validly existing and in good standing in the State of Florida, is authorized to do business in the State and has all requisite corporate power and authority to enter into and fully perform this Agreement.

ii. All necessary action on the part of the Sawmill to authorize execution and delivery of this Agreement and the performance of its obligations under this Agreement have been duly taken and, assuming due authorization, execution and delivery by JEA, this Agreement shall be valid and enforceable against Sawmill in accordance with its terms.

iii. To the best of Sawmill's knowledge, the terms and conditions of this Agreement do not violate the provisions of any applicable law or any applicable order or regulation of any government authority having jurisdiction over Sawmill and compliance with this Agreement will not violate the terms and conditions of any agreement or instrument to which Sawmill is a party.

b. Ryals Creek CDD makes the following representations:

i. Ryals Creek CDD is a local, special purpose governmental entity authorized by Chapter 190, Florida Statutes, validly existing and in good standing in the State of Florida, and has all requisite corporate power and authority to enter into and fully perform this Agreement.

ii. All necessary action on the part of Ryals Creek CDD to authorize execution and delivery of this Agreement and the performance of its obligations under this Agreement have been duly taken and, assuming due authorization, execution and delivery by JEA, this Agreement shall be valid and enforceable against Ryals Creek CDD in accordance with its terms.

iii. To the best of Ryals Creek CDD's knowledge, the terms and conditions of this Agreement do not violate the provisions of any applicable law or any applicable order or regulation of any government authority having jurisdiction over Ryals Creek CDD and compliance with this Agreement will not violate the terms and conditions of any agreement or instrument to which Ryals Creek CDD is a party.

c. JEA makes the following representations:

i. JEA is a duly organized and validly existing body corporate and politic of the State of Florida. JEA has full power and authority to enter into the transaction contemplated by this Agreement.

ii. To the best of its knowledge and belief after due inquiry, JEA is not in default under any provisions of the laws of the State of Florida material to the performance of its obligations under this Agreement. JEA has duly authorized the execution and delivery of this Agreement and assuming the due authorization, execution and delivery of this Agreement by the other parties, this Agreement constitutes a valid and legally binding obligation of JEA enforceable in accordance with its terms.

iii. To the best of JEA's knowledge and belief after due inquiry, the terms and conditions of this Agreement do not violate the provision of any applicable law or any provision of the constitution of the State of Florida.

(Signature pages to follow.)

IN WITNESS WHEREOF, Sawmill, Ryals Creek CDD and JEA have executed or caused this Agreement with the named exhibits attached, to be duly executed in counterparts, each of which shall be considered an original executed copy of this Agreement, as of the day and year set forth above.

Signed, sealed and delivered
in the presence of:

Print Name: ROBERT ZAMMATARO

Print Name: Rosemary Crowder

JEA:

JEA, a body politic and corporate

By: Hai V. Vu

Name: HAI X. VU

Its: VP, WATER & WASTEWATER SYSTEMS

FORM APPROVED BY THE OFFICE OF GENERAL COUNSEL

By:
Name: HARRY M WILSON III
Assistant General Counsel

GC-#1450846-v1-Active_44033570_Active_15_v15_JEA_Utility_Service_and_Cost_Participation_Agreement_(FINAL).DOCX

STATE OF FLORIDA
COUNTY OF DUVAL

The foregoing instrument was acknowledged before me by means of [✓] physical presence or [__] online notarization, this 8 day of Sept., 2021 by Hai Vu, as representative of JEA, body politic and corporate, on behalf of such corporation. He/she *(check one)* [✓] is personally known to me, or [__] has produced a valid driver's license as identification.

Notary Public State of Florida
Jennell Milton
My Commission GG 218351
Expires 10/06/2021

Notary Public, State and County Aforesaid
Name: Jennell Milton
My Commission Expires: 10/06/2021
My Commission Number is: GG 218351

Signed, sealed and delivered
in the presence of:

SAWMILL:

SAWMILL TIMBER, LLC, a Florida limited liability company

Katherine Evans
Print Name: Katherine Evans

By: C.F. Skinner
Name: CHRISTOPHER F. SKINNER
Its: Manager

Katherine Evans
Print Name: Katherine Evans

By: R.T. Skinner
Name: RANDALL T. SKINNER
Its: Manager

STATE OF FLORIDA
COUNTY OF DUVAL

The foregoing instrument was acknowledged before me by means of [✓] physical presence or [__] online notarization, this 31st day of August 2021 by C.F. Skinner, as Manager of SAWMILL TIMBER, LLC, a Florida limited liability company, on behalf of such company. He/she *(check one)* [✓] is personally known to me, or [__] has produced a valid driver's license as identification.

PAMELA W. WALKER
Notary Public, State of Florida
My Comm. Expires 10/10/2023
Commission No. GG359451

Pamela W. Walker
Notary Public, State and County Aforesaid
Name: Pamela W. Walker
My Commission Expires: 10/10/2023
My Commission Number is: GG 359451

STATE OF FLORIDA
COUNTY OF DUVAL

The foregoing instrument was acknowledged before me by means of [✓] physical presence or [__] online notarization, this 31st day of August, 2021 by R.T. Skinner, as Manager of SAWMILL TIMBER, LLC, a Florida limited liability company, on behalf of such company. He/she *(check one)* [✓] is personally known to me, or [__] has produced a valid driver's license as identification.

PAMELA W. WALKER
Notary Public, State of Florida
My Comm. Expires 10/10/2023
Commission No. GG359451

Pamela W. Walker
Notary Public, State and County Aforesaid
Name: Pamela W. Walker
My Commission Expires: 10/10/2023
My Commission Number is: GG 359451

Signed, sealed and delivered
in the presence of:

RYALS CREEK CDD:

RYALS CREEK COMMUNITY DEVELOPMENT DISTRICT, a local, special purpose governmental entity authorized by Chapter 190, Florida Statutes

Print Name: Breanna Bohler

Print Name: Katherine Evans

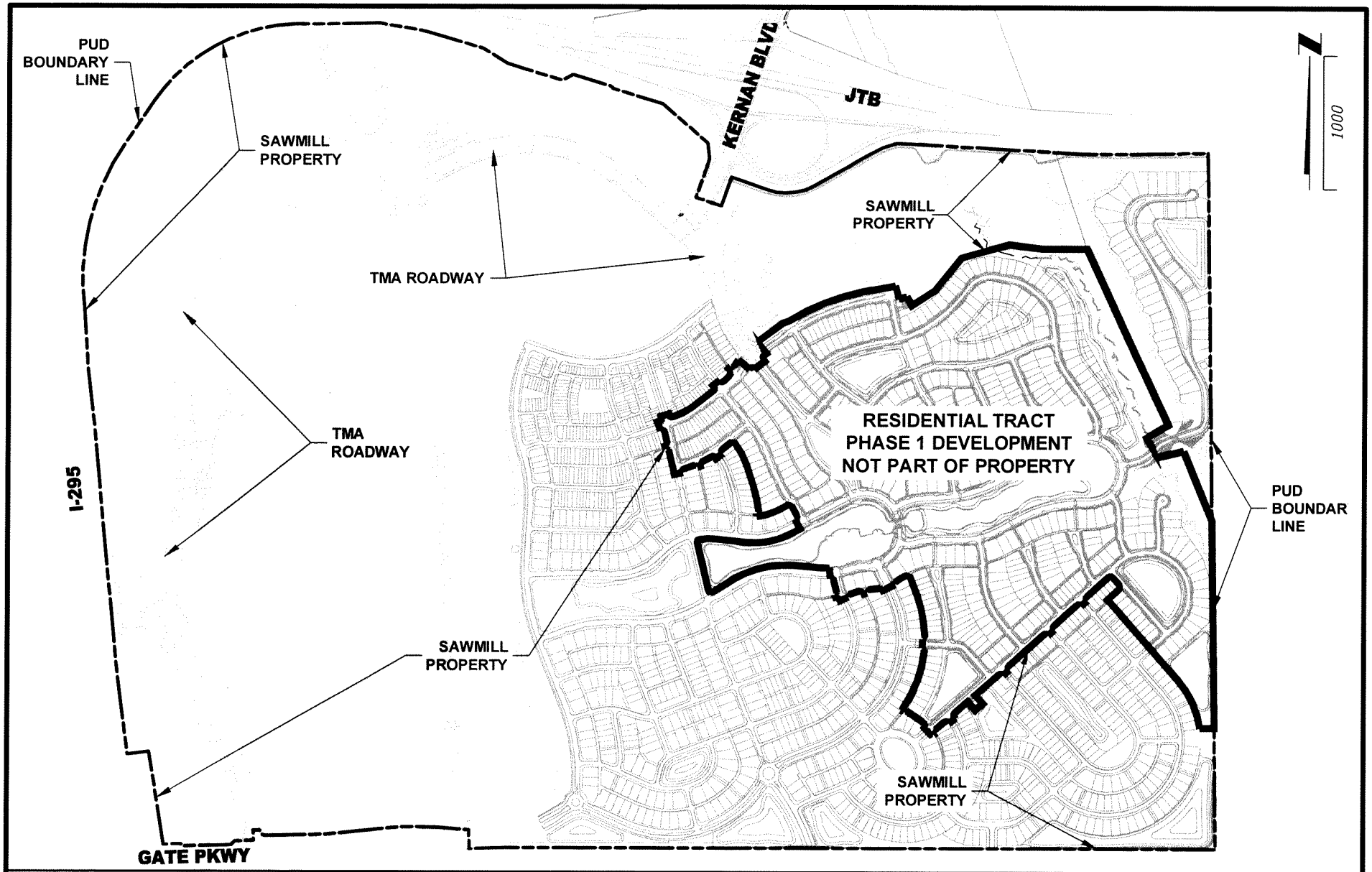
By: A. Chester Skinner III
Name: A. CHESTER SKINNER III
Its: CHAIRMAN

STATE OF FLORIDA
COUNTY OF DUVAL

The foregoing instrument was acknowledged before me by means of [✓] physical presence or [__] online notarization, this 31st day of August, 2021 by A.C. Skinner III, as Chairman of RYALS CREEK COMMUNITY DEVELOPMENT DISTRICT, a local, special purpose governmental entity authorized by Chapter 190, Florida Statutes, on behalf of such entity. He/she *(check one)* [✓] is personally known to me, or [__] has produced a valid driver's license as identification.

PAMELA W. WALKER
Notary Public, State of Florida
My Comm. Expires 10/10/2023
Commission No. GG359451

Notary Public, State and County Aforesaid
Name: Pamela W. Walker
My Commission Expires: 10/10/2023
My Commission Number is: GG359451



ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG. - 2584 LC. - 0000316

EXHIBIT A - PROPERTY, TMA ROADWAY

SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 24, 2021
DRAWING NO. A

T:\2019\19-115\19-115-03\19-115-03-001\LandDev\Design\Plots\Exhibits\Exhibit A - Property, TMA Roadway.dwg August 24, 2021 - 5:12 PM, By: CAD Test

EXHIBIT A-1

Legal Description

Portions of Sections 8, 9, 16 and 17, Township 3 South, Range 28 East, Jacksonville, Duval County, Florida more particularly described as follows:

For a point of reference, commence at the point of intersection of the centerline of Baymeadows Road East with the centerline of Gate Parkway as said lines are shown on plat of Baymeadows Road East according to plat recorded in the current public records of Jacksonville, Duval County, Florida in Plat Book 54, Pages 9, 9A though 9N and run North 88° 14' 54" East along the Easterly projection of last centerline, a distance of 60.00 feet to a point on the boundary of said plat lying on the line dividing Section 20 and aforesaid Section 17 and the Point of Beginning.

From the Point of Beginning thus described run along the boundary of said plat the following courses: first course, North 01° 14' 16" West, a distance of 110.00 feet; second course, South 88° 14' 54" West, a distance of 140.01 feet; third course, South 43° 14' 54" West, a distance of 39.60 feet; fourth course, South 88° 14' 54" West, a distance of 375.17 feet to a point on the Easterly right of way line of State Road No. 9A (Parcel 103.1-R, a variable width limited access right of way as described in Official Records Volume 8206, Page 968, Public Records of said County); run thence along said right of way as follows: first course, North 01° 45' 06" West, a distance of 18.00 feet; second course, South 88° 14' 54" West, a distance of 300.00 feet; third course, North 12° 32' 47" West, a distance of 95.18 feet; fourth course, North 09° 45' 09" West, a distance of 329.70 feet; fifth course, North 07° 17' 12" West, a distance of 974.64 feet; sixth course, North 05° 20' 43" West, a distance of 1311.16 feet; seventh course, Northerly along the arc of a curve concave Westerly with a radius of 23,074.31 feet, an arc distance of 915.44 feet, said arc being subtended by a chord bearing North 05° 57' 27" West and distance of 915.38 feet; eighth course, North 03° 35' 12" West, a distance of 404.16 feet; run thence Northeasterly along the right of way of State Road No. 9A/J. Turner Butler Boulevard interchange and along the arc of a curve concave Southeasterly with a radius of 1785.00 feet an arc distance of 1307.58 feet to the point of tangency of said curve, said arc being subtended by a chord bearing North 13° 07' 39" East and distance of 1278.54 feet; run thence North 34° 06' 39" East along said right of way, a distance of 394.54 feet to a point of curvature; run thence Northeasterly along said right of way and along the arc of a curve concave Southeasterly with a radius of 1335.00 feet and arc distance of 1377.49 feet to a point on the Southerly right of way line of J. Turner Butler Boulevard, said arc being subtended by a chord bearing North 63° 40' 22" East and distance of 1317.19 feet; run thence Easterly along said right of way and along the right of way of J. Turner Butler Boulevard / Kernan Road Interchange the following courses: first course, North 89° 03' 38" East, a distance of 516.67 feet; second course, South 84° 34' 57" East , a distance of 367.98 feet; third course, South 72° 44' 40" East, a distance of 431.07 feet; fourth course, South 57° 51' 00" East, a distance of 213.98 feet; fifth course, South 72° 44' 40" East, a distance of 432.31 feet; sixth course, North 62° 15' 20" East, a distance of 91.93 feet; seventh course, South 72° 44' 40" East, a distance of 300.24 feet; eighth course, South 42° 45' 00" East, a distance of 19.99 feet; ninth course, South 72° 44' 40"

East, a distance of 389.01 feet; tenth course, South 49° 04' 07" East, a distance of 450.10 feet; eleventh course, South 04° 58' 11" East, a distance of 121.52 feet; twelfth course, South 19° 19' 33" West, a distance of 300.00 feet; thirteenth course, South 70° 40' 27" East, a distance of 200.00 feet; fourteenth course, North 19° 19' 33" East, a distance of 300.00 feet; fifteenth course, North 25° 25' 20" East, a distance of 188.33 feet; sixteenth course, North 89° 14' 38" East, a distance of 1092.51 feet; seventeenth course, South 86° 40' 14" East, a distance of 1340.15 feet; eighteenth course, Easterly along the arc of a curve concave Northerly with a radius of 4733.66 feet, an arc distance of 375.25 feet to the point of tangency of said curve, said arc being subtended by a chord bearing South 88° 27' 40" East and distance of 375.15 feet; nineteenth course, North 89° 16' 04" East, a distance of 677.11 feet to a point lying on the line dividing Section 15 and Section16, Township and Range aforementioned; run thence South 00° 50' 36" East, along said Section line, a distance of 5223.99 feet to the Southeast corner of said Section 16; run thence 89° 57' 47" West along the Southerly line of said Section, a distance of 5339.72 feet to the corner common to Section 16, 17, 20 and 21, Township and Range aforementioned; run thence 88° 14' 51" West along the Southerly line of said Section 17, a distance of 1887.13 feet to the Point of Beginning.

LESS AND EXCEPT ANY AND ALL OF THE FOREGOING PROPERTY SUBJECT TO THAT CERTAIN ORDER OF TAKING RECORDED IN OFFICIAL RECORDS BOOK 17341, PAGE 1301.

FURTHER LESS AND EXCEPT ANY AND ALL OF THE FOREGOING PROPERTY CONVEYED TO THE DEPARTMENT OF TRANSPORATION RECORDED IN OFFICIAL RECORDS BOOK 19141, PAGE 246; AND CORRECTIVE DEED IN OFFICIAL RECORDS BOOK 19244, PAGE 2324.

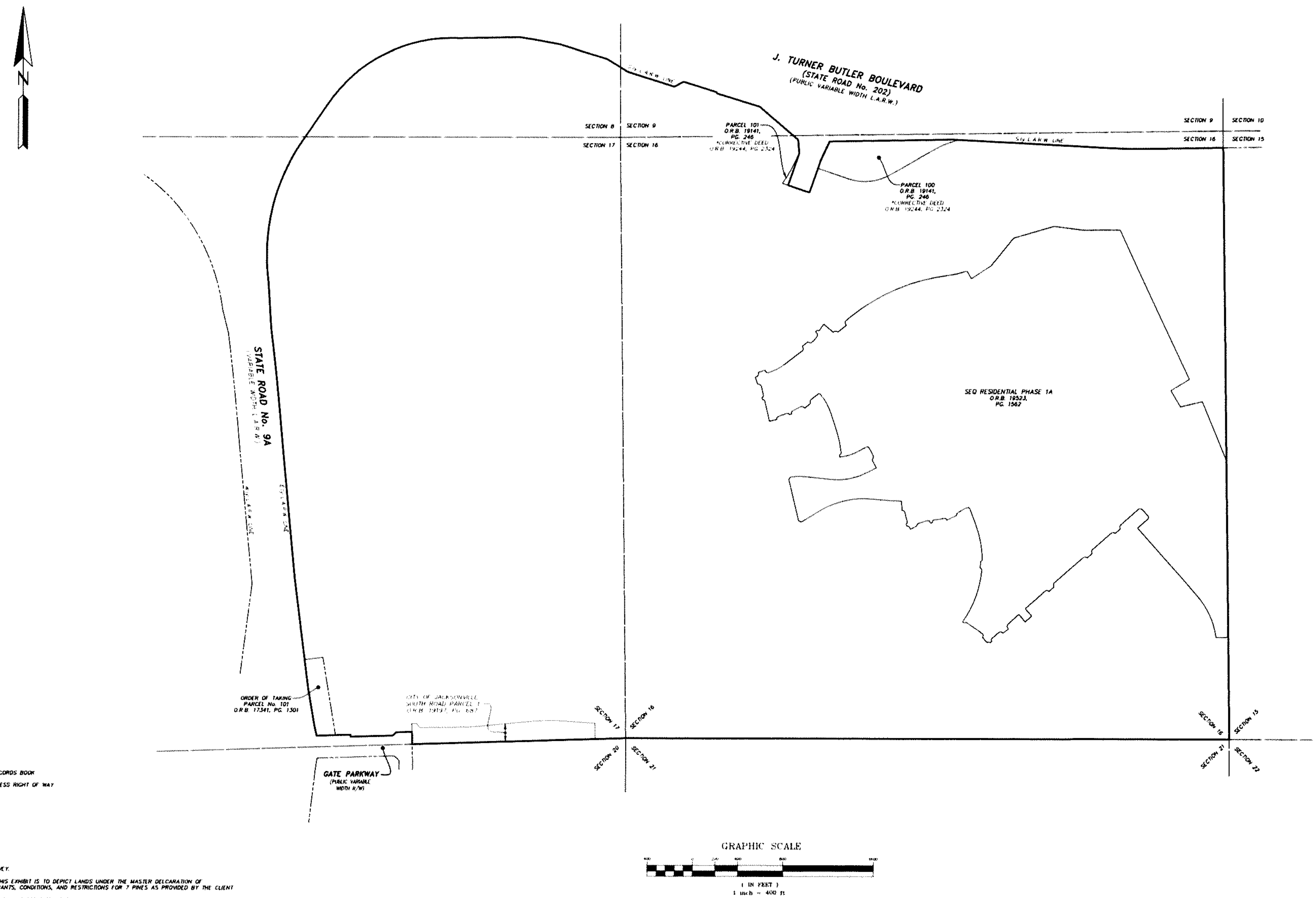
FURTHER LESS AND EXCEPT ANY AND ALL OF THE FOREGOING PROPERTY CONVEYED TO THE CITY OF JACKSONVILLE RECORDED IN OFFICIAL RECORDS BOOK 19197, PAGE 687.

FURTHER LESS AND EXCEPT ANY AND ALL OF THE FOREGOING PROPERTY CONVEYED TO DRP FL 2 RECORDED IN OFFICIAL RECORDS BOOK 19523, PAGE 1562.

FURTHER LESS AND EXCEPT ANY AND ALL OF THE FOREGOING PROPERTY CONVEYED TO THE CITY OF JACKSONVILLE FOR RIGHT OF WAY PURPOSES.

EXHIBIT TO SHOW

A PORTION OF SECTIONS 8, 9, 16 AND 17, TOWNSHIP 3 SOUTH, RANGE 28 EAST, DUVAL COUNTY, FLORIDA.



LEGEND:

O.R.B. OFFICIAL RECORDS BOOK
PG. PAGE
L.A.R.W. LIMITED ACCESS RIGHT OF WAY

GENERAL NOTES:

1) THIS IS NOT A SURVEY.

2) THE PURPOSE OF THIS EXHIBIT IS TO DEPICT LANDS UNDER THE MASTER DELCARATION OF EASEMENTS, COVENANTS, CONDITIONS, AND RESTRICTIONS FOR 7 PINES AS PROVIDED BY THE CLIENT

3) SECTION AND/OR LOT LINES DEPICTED HEREON ARE GRAPHIC REPRESENTATIONS ONLY UNLESS OTHERWISE DENOTED.

SCALE 1"=400'
DATE AUGUST 18, 2021

ETM Surveying & Mapping, Inc.
VISION • EXPERIENCE • RESULTS
14775 Old St. Augustine Road, Jacksonville, FL 32258
Tel. (904) 642-8550 Fax (904) 642-4165
Certificate of Authorization No. LB 3624

COUNTY DUVAL

Projected PUD Development Schedule			
Land Use	Units	GPD(ADF)/Unit	Total (Units)
Single Family	DU	280	1,569
Townhome	Unit	250	400
Multi Family	Bedroom	80	6,338
Assisted Living Facility	Bedroom	100	100
Hotel	Room	100	100
Movie Theatre	Seat	4	2,400
Office	SF	0.15	1,545,000
Commercial	SF	0.40	1,384,000

THE UNIT TOTALS MAY BE ALTERED PROVIDED THE TOTAL WASTEWATER FLOW DOES NOT INCREASE.

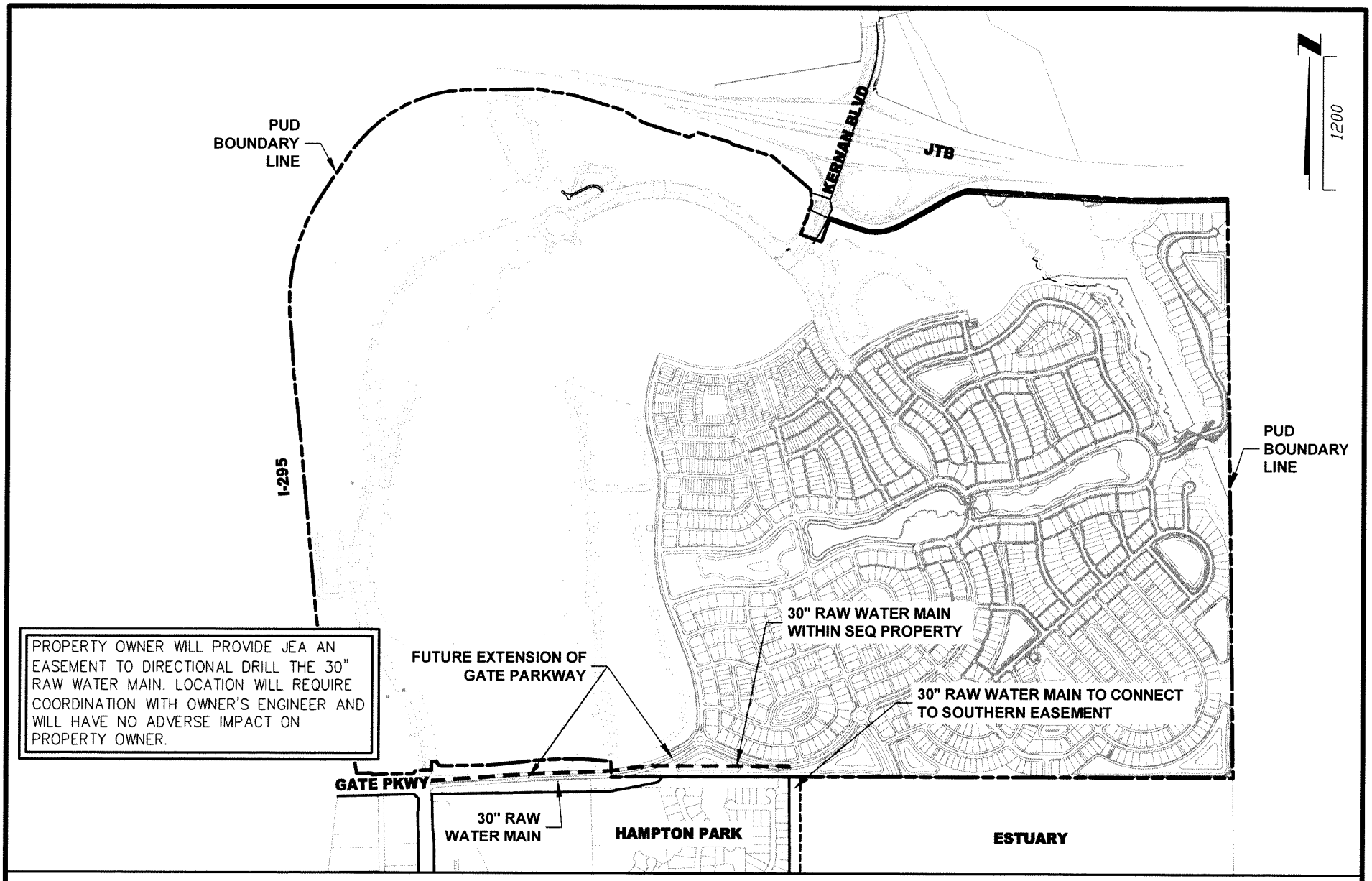
NOTE:
1. INCLUDES DEVELOPMENT WITHIN RESIDENTIAL TRACT PHASE 1.
2. ONE ERC = 280 GPD.

ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG. - 2584 LC - 0000316

EXHIBIT B - PROJECTED PUD DEVELOPMENT SCHEDULE

SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 26, 2021
DRAWING NO. B



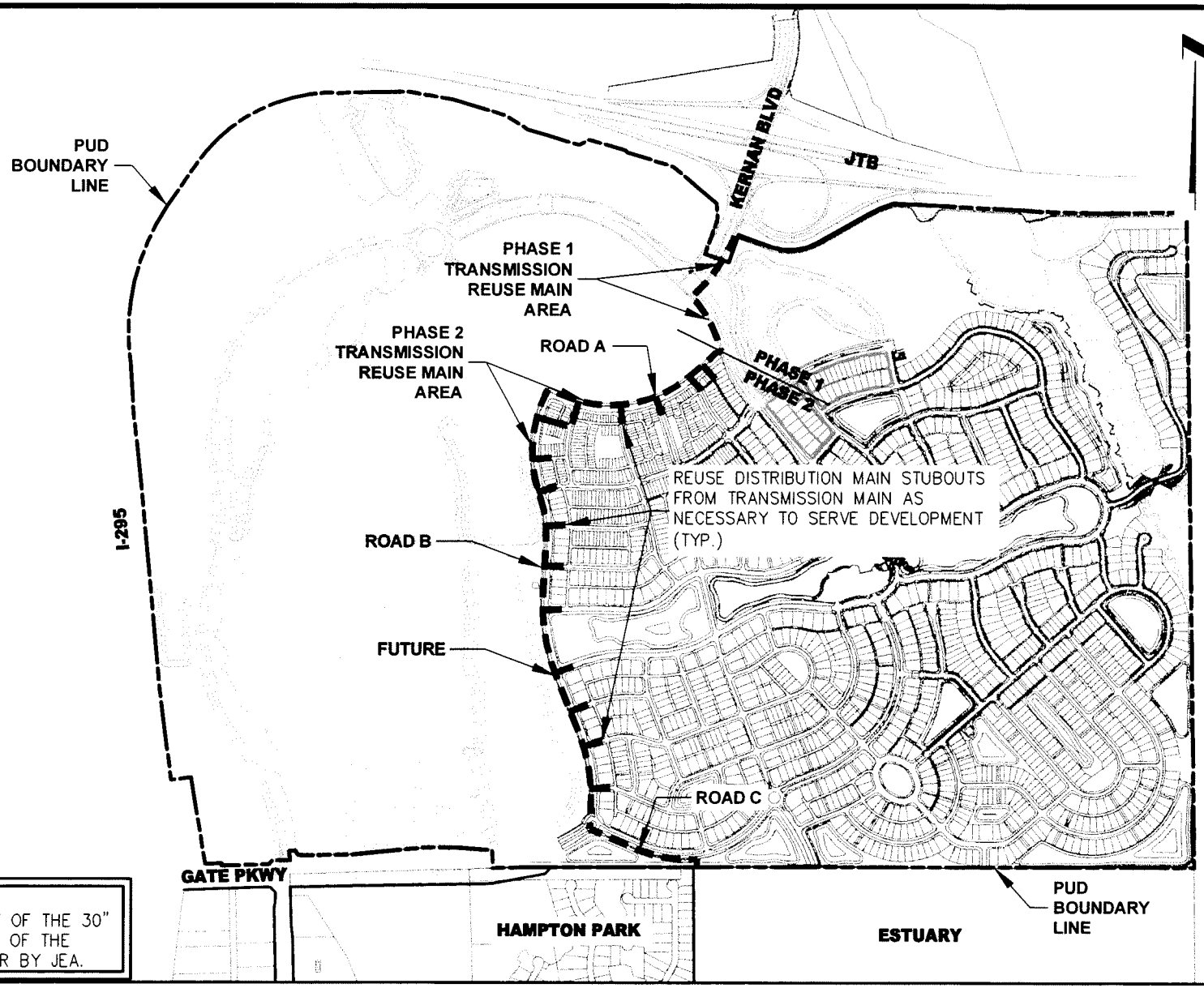
ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAx: (904) 646-9485
REG - 2584 LC - 0000316

EXHIBIT C - RAW WATER EXHIBIT

SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 24, 2021
DRAWING NO. C - PAGE 1 OF 4

T:\2019\19-115\19-115-03\19-115-03-001\LandDev\Design\Plots\Exhibits\Exhibit C - Raw Water Exhibit.dgn August 24, 2021 - 5:14 PM, By: CAD Test



NOTE:
ALL LATERAL BRANCHES OFF OF THE 30" REUSE MAIN SHALL BE PART OF THE CONSTRUCTION AND PAID FOR BY JEA.

ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG. - 2584 LC - 0000316

EXHIBIT D - REUSE EXHIBIT
PAGE 1 OF 2 - SITE PLAN

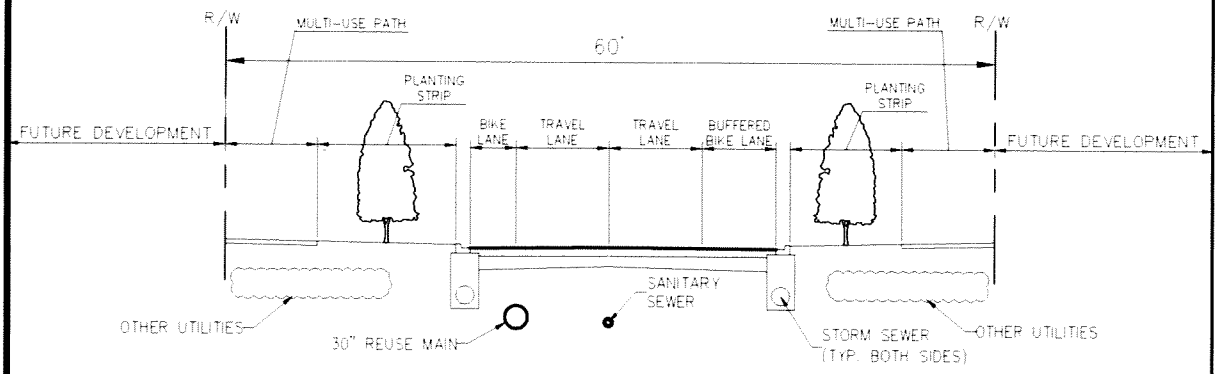
SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 24, 2021
DRAWING NO. D - PAGE 1 OF 2

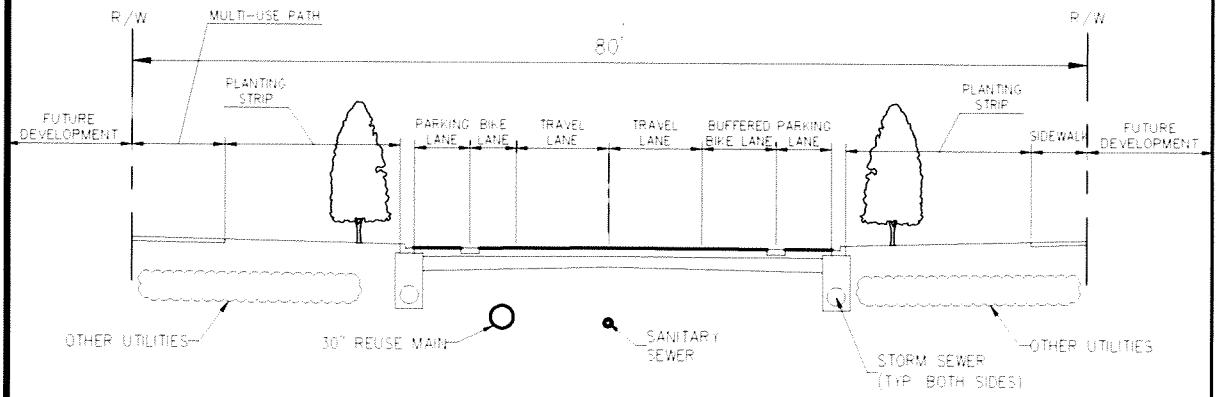
T:\2019\19-115\19-115-03\19-115-03-001\LandDev\Design\Plots\Exhibits\Exhibit D - Reuse Exhibit.dwg PLOTTED August 24, 2021 - 5:15 PM, By: CAD Test

NOTE:
1. THESE SECTIONS INDICATE A RANGE OF LOCATIONS ACCEPTABLE TO JEA. ACTUAL LOCATION TO BE DETERMINED AT TIME OF DESIGN.

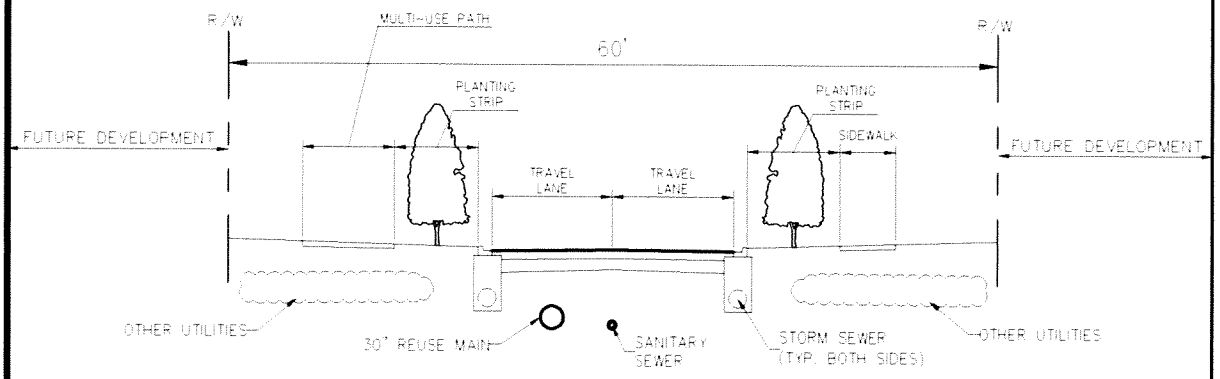
2. THE PROVIDED TYPICAL SECTIONS COULD BE UTILIZED ALONG THE PROPOSED 30" REUSE MAIN ROUTE PER EXHIBIT 1 OF 2.



TYPICAL SECTION A



TYPICAL SECTION B



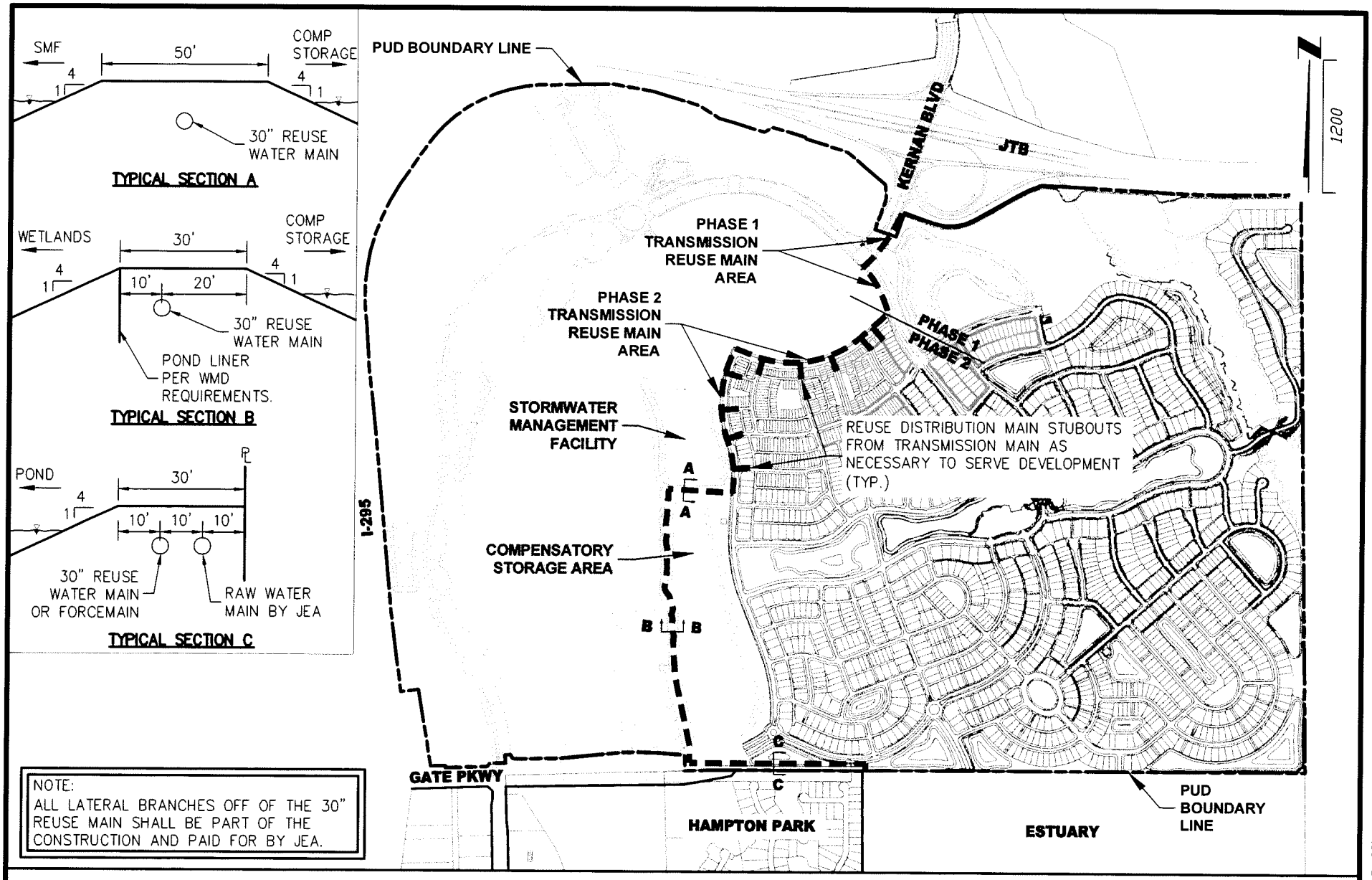
15' MIN. SEPARATION BETWEEN HABITABLE BUILDING FOUNDATION AND 30" REUSE MAIN WITHOUT FOUNDATION PROTECTION

TYPICAL SECTION C

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 24, 2021
DRAWING NO. D - PAGE 2 OF 2

EXHIBIT D - REUSE EXHIBIT
PAGE 2 OF 2 - TYPICAL SECTIONS
SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG. #2584 LC - 0000316



NOTE:
ALL LATERAL BRANCHES OFF OF THE 30" REUSE MAIN SHALL BE PART OF THE CONSTRUCTION AND PAID FOR BY JEA.

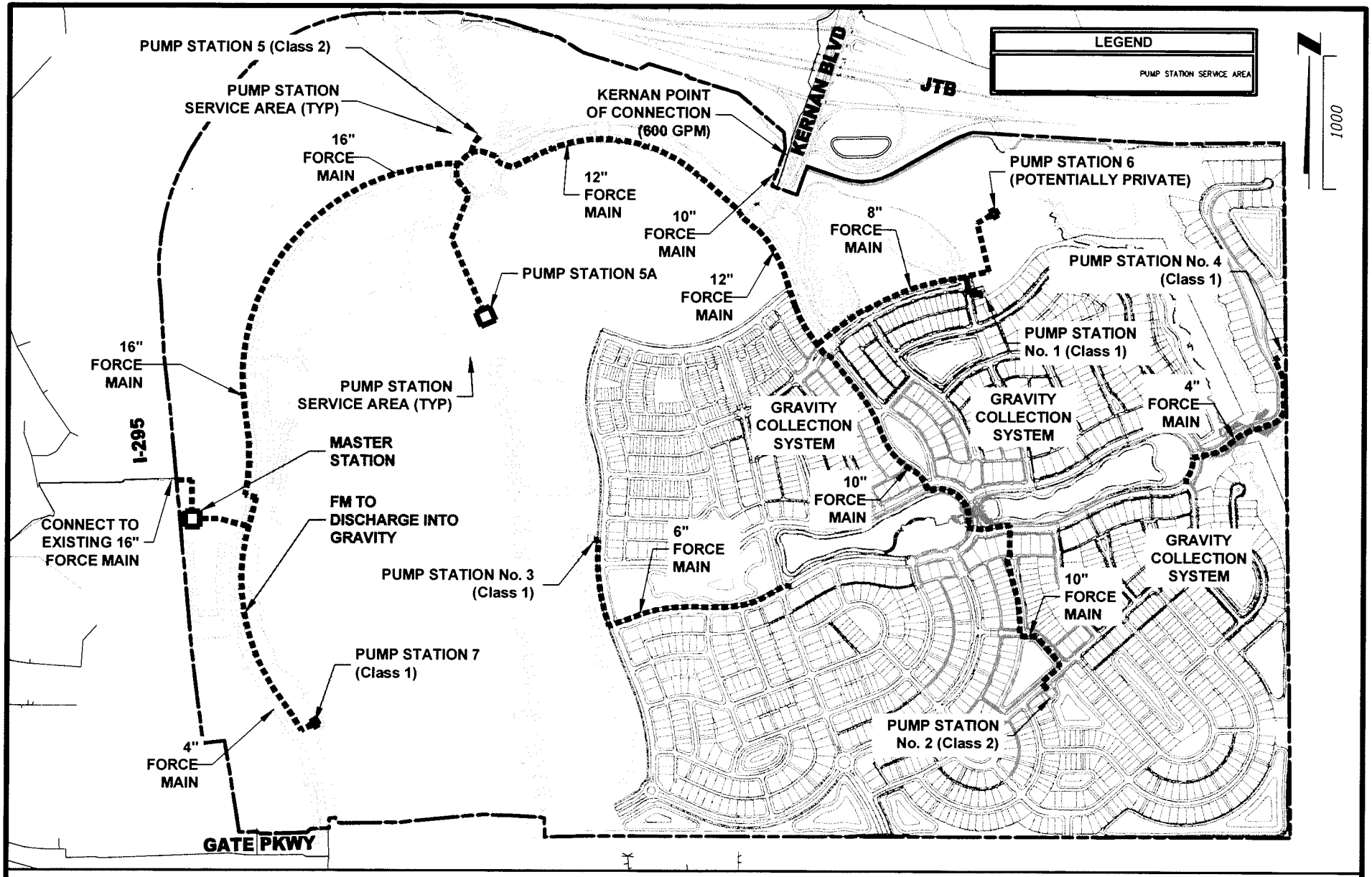
ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG. - 2584 LC. - 0000316

EXHIBIT D1 - REUSE EXHIBIT ALTERNATIVE

SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO.	19-115-03-001
DRAWN BY:	BCS
DATE:	August 24, 2021
DRAWING NO.	D1

T:\2019\19-115\19-115-03\19-115-03-001\LandDev\Design\Plots\Exhibits\Exhibit D1 - Reuse Exhibit.dwg PLOTTED: August 24, 2021 - 5:16 PM, By: CAD Test



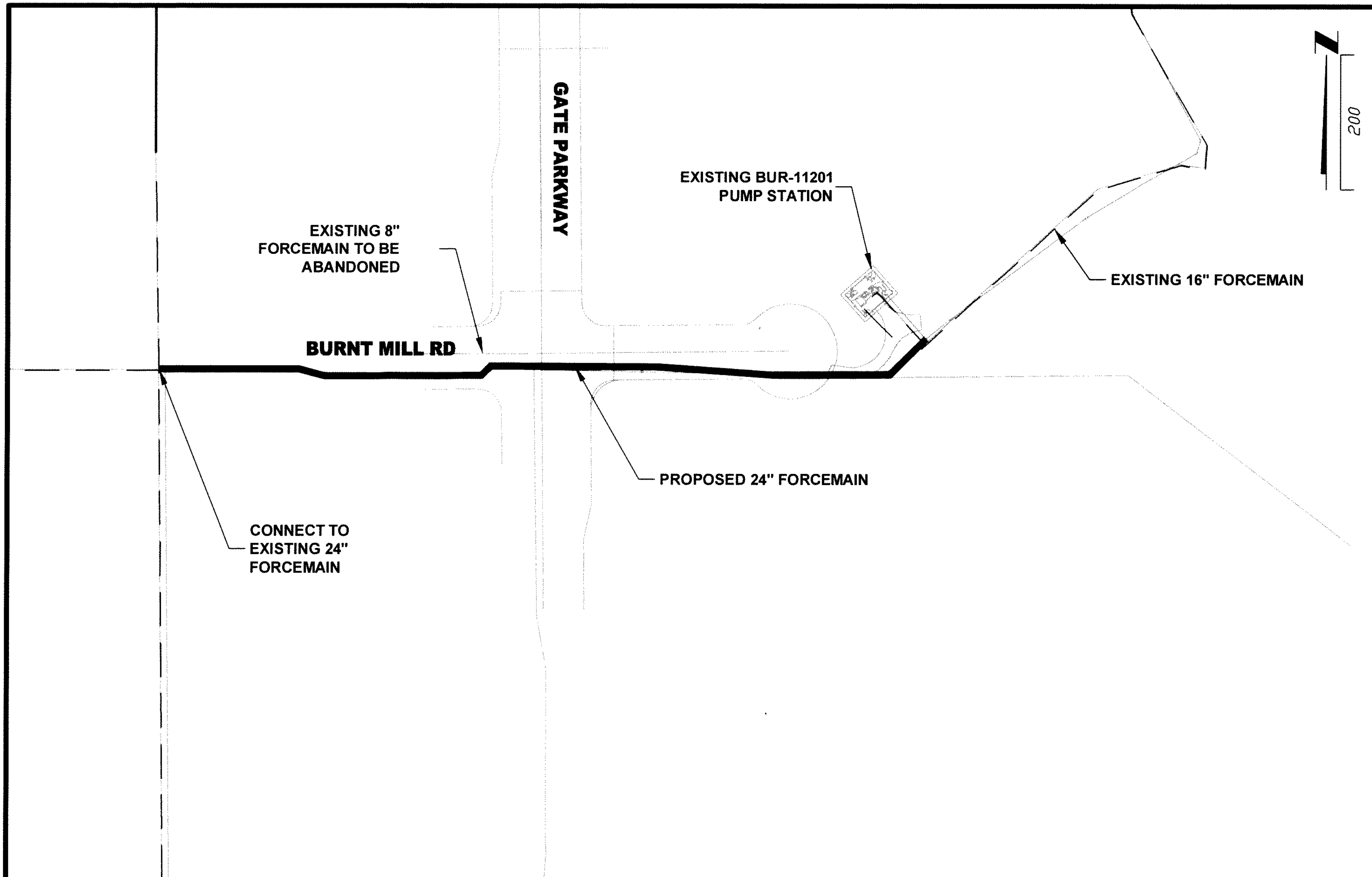
ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG. - 2584 LC. - 0000316

EXHIBIT E - SEWER EXHIBIT

SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 24, 2021
DRAWING NO. E

T:\2019\19-115\19-115-03\19-115-03-001\LandDev\Design\Plots\Exhibits\Exhibit E - Sewer Exhibit.dgn PLOTTED: August 24, 2021 - 5:18 PM, By: CAD Test



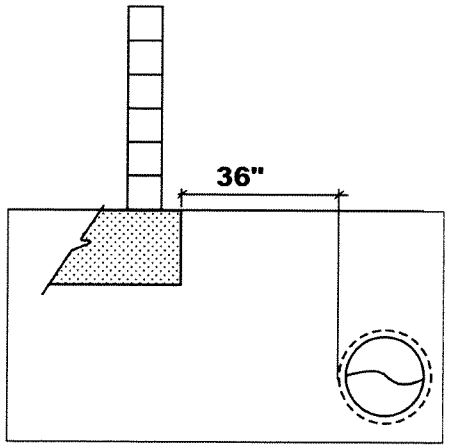
ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG - 2584 LC - 0000316

EXHIBIT F - OFF SITE SEWER IMPROVEMENTS

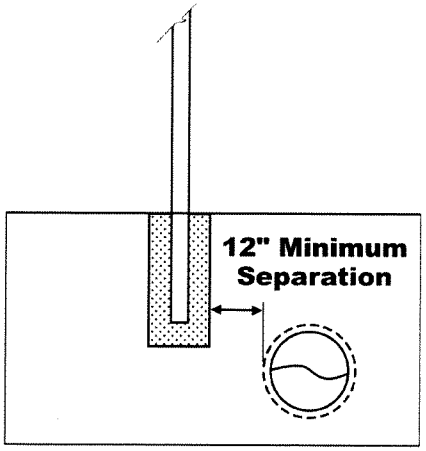
SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 24, 2021
DRAWING NO. F

8/26/2021



Decorative Column or Sign



Fence Post or Gate Post

Separation of Water, Wastewater and Reclaimed Mains from non-main or utility facilities shall be in accordance with the JEA Water and Wastewater Standards except as shown on Exhibit G.

For structures that are related to signs, traffic signal masts, entrance/exit features and similar type amenities, the separation from water, wastewater and reclaimed mains shall be in accordance with the standards. In the event the specified distance cannot be met, the affected main shall maintain a separation of not less than 36" from the foundation of the structure and one of the following mitigating measures be taken:

1.One full length of ductile iron water or reclaimed main shall be centered from the point where the water or reclaimed main is closest to the foundation structure

or

2. The water or reclaimed main shall be installed within a steel casing that extends 10' in both directions from the foundation of the structure

or

3. The water or reclaimed main shall be encased in concrete for a distance that extends 10' in both directions from the foundation of the structure.

In all instances a hold harmless agreement will be provided for those instances where the above mitigation is required.

ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG - 2584 LC - 0000316

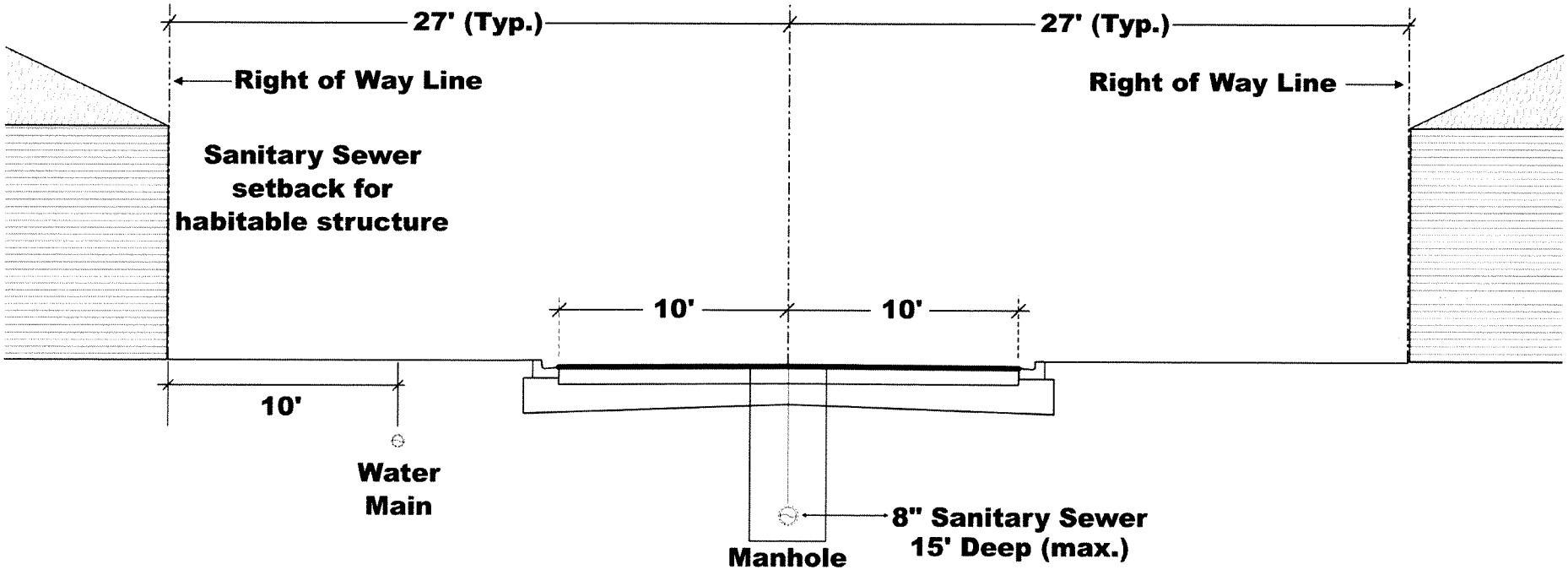
EXHIBIT G

SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 26, 2021
DRAWING NO. G - 1 of 4

8/26/2021

Minimum Right of Way width 3x depth of Sanitary Sewer, centered over pipe.



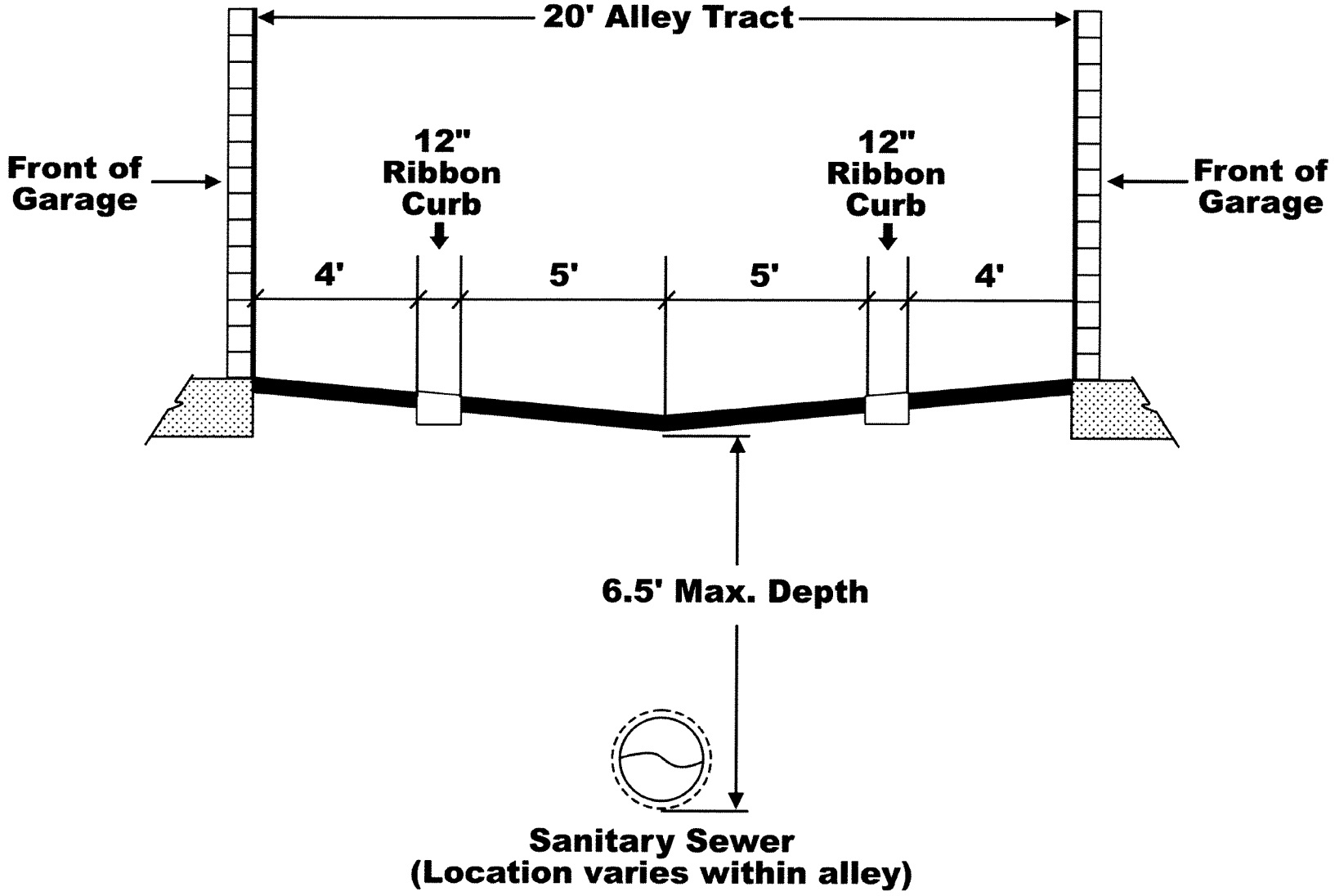
ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG - 2584 LC - 0000316

EXHIBIT G - Roadway Detail

SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 26, 2021
DRAWING NO. G - 2 of 4

8/26/2021



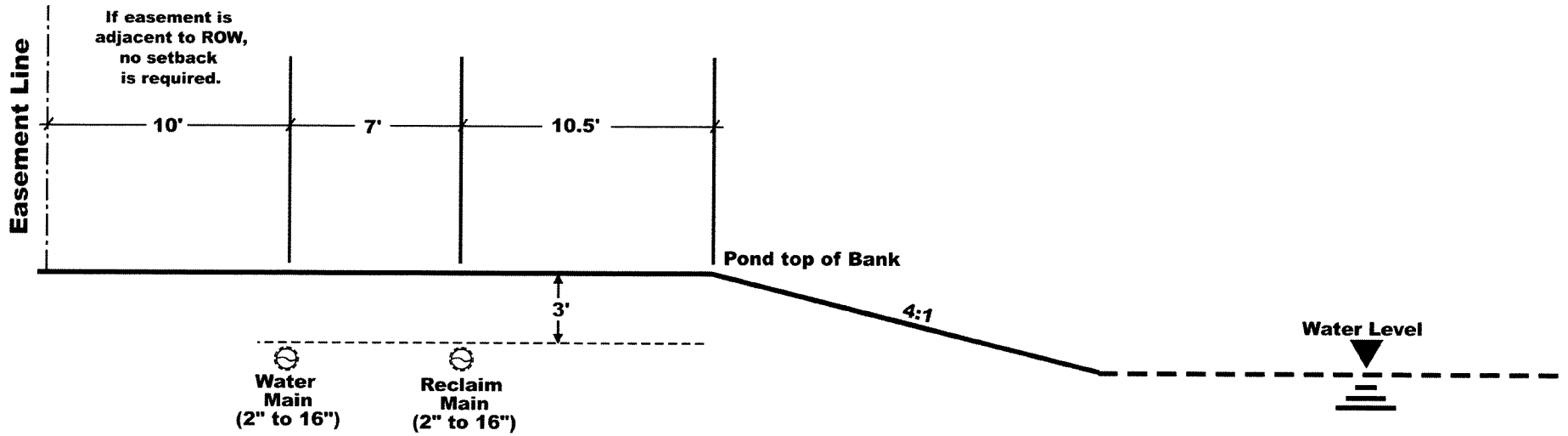
ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG - 2584 LC - 0000316

EXHIBIT G - Alley Detail

SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 26, 2021
DRAWING NO. G - 3 of 4

8/26/2021



ETM
VISION - EXPERIENCE - RESULTS
ENGLAND - THIMS & MILLER, INC.
14775 Old St. Augustine Road, Jacksonville, FL 32258
TEL: (904) 642-8990, FAX: (904) 646-9485
REG - 2584 LC - 0000316

EXHIBIT G - Easement at Pond Bank

SOUTHEAST QUADRANT RESIDENTIAL
JACKSONVILLE
FLORIDA

ETM NO. 19-115-03-001
DRAWN BY: BCS
DATE: August 26, 2021
DRAWING NO. G - 4 of 4

TMA Road Phase 1A

A.	MOBILIZATION AND SITE PREPARATION	$171,950.16
B.	CLEARING AND GRUBBING	$75,159.18
C.	STORMWATER MANAGEMENT FACILITIES	$182,300.75
D.	ROADWAY EARTHWORK	$160,636.64
E.	KERNAN BOULEVARD ROADWAY CONSTRUCTION	$568,765.62
F.	KERNAN BOULEVARD MULTI-USE PATH	$88,242.60
G.	TMA ROADWAY CONSTRUCTION	$681,341.74
H.	TMA HARDSCAPE AND SIDEWALK	$223,965.24
I.	TMA MULTI-USE PATH	$48,461.10
J.	TRAFFIC SIGNAL CONSTRUCTION	$635,448.41
K.	STORM DRAINAGE SYSTEM	$1,009,691.42
L.	PAVING AND DRAINAGE AS-BUILTS	$7,958.40
M.	JEA WATER DISTRIBUTION SYSTEM	$307,012.41
N.	JEA SANITARY SEWER SYSTEM	$189,310.09
O.	RESIDENTIAL JEA SANITARY SEWER	$78,333.22
P.	JEA 30" REUSE WATER DISTRIBUTION SYSTEM	$395,820.94
Q.	JEA REUSE WATER DISTRIBUTION SYSTEM	$125,534.54
R.	WATER, SEWER, AND REUSE AS-BUILTS	$11,937.70
S.	SEEDING AND MULCHING AND SOD	$104,617.19
T.	SIGNAGE	$38,904.40
U.	SEDIMENT AND EROSION CONTROL	$45,580.86
V.	STORMWATER POLLUTION PREVENTION PLAN	$47,770.64
W.	BONDING / WARRANTY	$33,160.30
X.	JEA ELECTRICAL INFRASTRUCTURE	$187,816.95
Y.	LANDSCAPING AND IRRIGATION	$376,245.66
Z.	UNSUITABLE MATERIAL REMOVAL (CONTINGENCY)	$44,950.00
AA.	MASS GRADING & DITCH CONSTRUCTION	$69,430.68

CONSTRUCTION COST ESTIMATE

Project: Stillwood Pines Blvd
CIP Cat: Water / Reclaim Water Distribution
File Name: WS20081 Stillwood Pines WM & RWM (Cost Participation)
Cost Index: ENR Construction Cost Index is 11412.64 for May 2020.
CP No: TBD

JEA Building Community

Project Mgr: B. Russell
Estimator: M Spurlock

Estimate No: WS20081
Rev. No: 0
Date: 5/26/2020

100% Design

CLASS 1

DIRECT CONSTRUCTION COSTS

Contractor Cost		Material	Labor	Equipment	Other/Sub-Cont.	TOTAL
Total From Estimate Details - 16" Raw Water		$25,891	$6,961	$1,726	$15,085	$49,663
Total From Estimate Details - 30" Reclaimed Water		$375,451	$43,827	$10,650	$92,193	$522,120
Total From Estimate Details - 12" Reclaimed Water		($64,133)	($22,223)	($5,039)	($29,600)	($120,994)
Subtotal Contractor Cost		$337,209	$28,565	$7,337	$77,678	$450,789
Escalation	0%	$0	$0	$0	$0	$0
Subtotal Contractor Cost		$337,209	$28,565	$7,337	$77,678	$450,789
Contingency (Contractors Risk)	0%	$0.00	$0.00	$0.00	$0.00	$0
Contingency (Contract SWA)	5%	$16,860.45	$1,428.26	$366.85	$3,883.91	$22,539
Total Contractor Costs		**$354,070**	**$29,993**	**$7,704**	**$81,562**	**$473,329**

Additional Direct Costs	Material	Labor	Equipment	Other/Sub-Cont.	TOTAL
JEA Supplied Material and Other	$0	$0	$0	$0	$0
JEA Other Contract Costs	$0	$0	$0	$0	$0
Subtotal: Additional Direct Costs	$0	$0	$0	$0	$0
Total Direct Costs	**$354,070**	**$29,993**	**$7,704**	**$81,562**	**$473,329**

JEA Cost & Engineering		Labor	Contract	TOTAL
Project Management	0.0%	$0	$0	$0
Engineering *(All Services By Design Firm)*	0.0%	$0	$0	$0
Services During Construction *(JEA, Randstad, CEI)*	0.0%	$0	$0	$0
Project Support	0.0%	$0	$0	$0
Real Estate	0.0%	$0	$0	$0
Total JEA Cost and Engineering		$0	$0	$0

Total Project Costs **$473,329**

263 LF of 16" PVC Raw Water Main & 963 LF of 30" CLDI Reclaimed Water Main (upsizing from 12")

CLASS 1 **Accuracy Range** **-5% to +10%.**

Formal Bid and Award System

Award #3 November 18, 2021

Type of Award Request: RESCIND
Request #: 174
Requestor Name: Strozzo, Michael K. - Manager, Technical Services
Requestor Phone: (904) 665-5330
Project Title: Cloud and On-premise Backup/Restore Licensing
Project Number: HE30901
Project Location: JEA
Funds: O&M
Budget Estimate: N/A

Scope of Work:
The purpose of this solicitation is to provide AvePoint (DocAve) backup/restore for Cloud and On-premise software (2800 users) used for Office 365 (and components) and Sharepoint.

JEA IFB/RFP/State/City/GSA#: IFB 1410421846
Purchasing Agent: Dambrose, Nickolas C.
Is this a Ratification?: NO

BIDDERS:

Name	Amount
PRESIDIO NETWORKED SOLUTIONS	N/A
SHI INTERNATIONAL CORP	N/A

Background/Recommendations:
Advertised on 09/15/2021. At bid opening on 10/19/2021, JEA received two (2) Bids.

Historically, JEA has utilized a single source as its sourcing justification for this contract due to limited resellers in the market. Recently, the market opened up to resellers and JEA decided to competitively bid this contract in October 2021. At the time of opening on 10/19/2021, JEA only two reseller bids and both were over budget.

Request approval to rescind this solicitation, and reject all Bids received in anticipation for rebidding of the Cloud and On-Premise Backup/Restore Licensing to try and increase competition.

Manager: Strozzo, Michael K. - Manager, Technical Services
VP: Datz, Stephen H. - VP Technical Services

APPROVALS:

_____

Chairman, Awards Committee **Date**

Formal Bid and Award System

Award #5 November 18, 2021

Type of Award Request: CONTRACT INCREASE
Request #: 6792
Requestor Name: Kilgo, Nancy A. - Dir Special Projects
Requestor Phone: (904) 665-6439
Project Title: Tenant Improvement Design Services for Proposed New JEA Corporate Headquarters
Project Number: 8006820
Project Location: JEA
Funds: Capital
Budget Estimate: $1,700,000.00 (Original budget, which covers this increase. NTE amount $1,148,700.00)

Scope of Work:

JEA is soliciting proposals for Tenant Improvement (TI) Design services for its proposed new corporate headquarters (HQ) building to be located in downtown Jacksonville, Florida. JEA executed a lease with Ryan Companies US Inc. (Ryan) for a build to suit office building and adjacent dedicated garage structure. Ryan's proposal for the core and shell project was selected through a competitive negotiation process. JEA also engaged ASD|SKY to help develop workspace programming for the interiors in advance of the TI Design engagement.

Design plans will be developed in conjunction with Ryan Architecture and Engineering (A+E) providing exterior and core design that will include JEA occupied corporate office and storefront space in the garage building. Portions of the storefront may be occupied by third parties. Design drawings must be developed in close coordination with Ryan and meet all state and local building codes in addition to JEA standards. The contract shall provide for TI design at key schematic, design drawing, construction drawing milestones for JEA, authorities having jurisdiction (AHJ) and Ryan review and approval. JEA approved changes to the building size and scope in May 2020 that will affect programming and occupancy needs. JEA will also be assessing, with this consultant's guidance, application of best practices that evolve from COVID-19 workplace standards and accommodations as the interior design progresses.

JEA IFB/RFP/State/City/GSA#: CPA 193636, 044-20
Purchasing Agent: Selders, Elaine L.
Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
RS&H, INC.	Charles Fritts	Chuck.Fritts@rsandh.com	10748 Deerwood Park Blvd South, Jacksonville, FL 32256	904-256-2418	$70,000.00

Amount of Original Award: $1,019,860.00
Date of Original Award: 10/29/2020
Change Order Amount: $70,000.00

List of Previous Change Order/Amendments:

CPA #	Amount	Date
193636	$58,840.00	03/19/2021

New Not-To-Exceed Amount:	$1,148,700.00
Length of Contract/PO Term:	Project Completion
Begin Date (mm/dd/yyyy):	11/01/2020
End Date (mm/dd/yyyy):	Project Completion (Expected: 07/31/2022)
JSEB Requirement:	Five Percent (5%) Evaluation Criteria

Background/Recommendations:

Competitively bid and approved by the Awards Committee on 10/29/2020. An administrative increase was completed on 03/19/2021 in the amount of $58,840.00 for scope changes due to modifications to the programmed spaces and personnel headcounts. A copy of the previous award is attached as backup.

This award request is for an increase to the RS&H, Inc. contract to provide additional funding for fees associated with the building interiors LEED (environmental & energy efficiency) and WELL (employee and occupancy wellness focused) certifications for the new HQ. These fees were not included in our original award. A copy of the proposals for the fees has been attached as backup.

Request approval to award a contract increase to RS&H, Inc. for Tenant Improvement Design Services for Proposed New JEA Corporate Headquarters (HQ), in the amount of $70,000.00, for a new not-to-exceed amount of $1,148,700.00, subject to the availability of lawfully appropriated funds.

Director:	Kilgo, Nancy A. - Dir Special Projects
VP:	McElroy, Alan D. - VP Supply Chain & Operations Support

APPROVALS:

_____

Chairman, Awards Committee **Date**

_____

Budget Representative **Date**

Approved by the JEA Awards Committee

Date: 10/29/2020 Item# 3

Formal Bid and Award System

Award #3 October 29, 2020

Type of Award Request: REQUEST FOR PROPOSAL (RFP)
Request #: 6792
Requestor Name: Kilgo, Nancy A. - Dir Special Projects
Requestor Phone: (904) 665-6439
Project Title: Tenant Improvement Design Services for Proposed New JEA Corporate Headquarters
Project Number: 8006820
Project Location: JEA
Funds: Capital
Budget Estimate: $1,700,000.00

Scope of Work:
JEA is soliciting proposals for Tenant Improvement (TI) Design services for its proposed new corporate headquarters building to be located in downtown Jacksonville, Florida. JEA executed a lease with Ryan Companies US Inc. (Ryan) for a build to suit office building and adjacent dedicated garage structure. Ryan's proposal for the core and shell project was selected through a competitive negotiation process. JEA also engaged ASD|SKY to help develop workspace programming for the interiors in advance of the TI Design engagement.

Design plans will be developed in conjunction with Ryan Architecture and Engineering (A+E) exterior and core design and will include JEA occupied corporate office and storefront space in the garage building. Portions of the storefront may be occupied by third parties. Design drawings must be developed in close coordination with Ryan and meet all state and local building codes and JEA standards. The contract shall provide for TI design at key schematic, design drawing, construction drawing milestones for JEA, authorities having jurisdiction (AHJ) and Ryan review and approval. JEA approved changes to the building size and scope in May 2020 that will affect programming and occupancy needs. JEA will also be assessing, with this consultant's guidance, application of best practices that evolve from COVID-19 workplace standards and accommodations as the interior design progresses.

JEA IFB/RFP/State/City/GSA#: 044-20
Purchasing Agent: Selders, Elaine L.
Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
RS&H, INC.	Charles Fritts	Chuck.Fritts@rsandh.com	10748 Deerwood Park Blvd South, Jacksonville, FL 32256	904-256-2418	$1,019,860.00

Amount for entire term of Contract/PO: $1,019,860.00
Award Amount for remainder of this FY: $815,950.00
Length of Contract/PO Term: Project Completion
Begin Date (mm/dd/yyyy): 11/01/2020
End Date (mm/dd/yyyy): Project Completion (Expected: 07/31/2022)
JSEB Requirement: Five Percent (5%) Evaluation Criteria

Comments on JSEB Requirements: RS&H, Inc. chose not to use a JSEB subcontractor.

PROPOSERS:

Name	Amount	Rank
RS&H, INC.	$1,019,860.00	1
GRESHAM SMITH	N/A	2
RDB DESIGN ASSOCIATES	N/A	3
GENSLER	N/A	4
LITTLE	N/A	5
ASD|SKY	N/A	6
KASPER ARCHITECTS	N/A	7
RYAN COMPANIES	N/A	8
PQH GROUP	N/A	9
NELSON WORLDWIDE	N/A	10
WALKER ARCHITECTS	N/A	11
LS3P	N/A	12
CALLISONRTKL INC.	N/A	13

Background/Recommendations:

Advertised on 07/28/2020. At proposal opening on 08/18/2020, JEA received thirteen (13) proposals. The public evaluation meeting was held on 09/24/2020 and JEA deemed RS&H, Inc. most qualified to perform the work. A copy of the evaluation matrix and negotiated hourly rates are attached in the fee summary as backup.

Negotiations with RS&H, Inc. were successfully completed. The negotiated rates were compared to current rates for similar services and deemed reasonable. JEA is awarding this contract based on the estimated hours and rates in the attached fee summary.

Contract Budget Details:

- Budget Estimate (at the time of Proposal): $1,700,000.00
    - FY21 Spend: $815,950.00
    - FY22 Spend: $203,910.00

044-20 – Request approval to award a contract to RS&H, Inc. for Tenant Improvement Design Services for Proposed New JEA Corporate Headquarters (HQ) for a total amount of $1,019,860.00, subject to the availability of lawfully appropriated funds.

Director: Kilgo, Nancy A. - Dir Special Projects

Chief: McElroy, Alan D. - Interim Chief Supply Chain Officer

APPROVALS:

10/29/2020

Chairman, Awards Committee **Date**

10/29/2020

Budget Representative **Date**

044-20 Tenant Improvement Design for Proposed JEA Corporate Headquarters

Vendor Rankings	M. Poteet	S.Pressley	B. Edwards	M. Newton-Green	J. Connell	Σ Rank	Rank
RS&H	1	1	1	3	2	8	1
Gresham Smith	4	3	2	2	4	15	2
RDB Design Associates	2	6	3	5	1	17	3
Gensler	5	8	6	4	3	26	4
Little	3	5	4	11	5	28	5
ASD|SKY	10	2	8	6	6	32	6
Kasper Architects	7	12	7	1	8	35	7
Ryan Companies	12	4	5	10	7	38	8
PQH Group	6	7	9	8	9	39	9
Nelson Worldwide	9	9	12	7	11	48	10
Walker Architects	11	11	10	9	10	51	11
LS3P	8	10	13	13	12	56	12
CallisonRTKL Inc.	13	13	11	12	13	62	13

M. Poteet	Professional Staff Experience (30 Points)	Company Experience (20 Points)	Design Approach and Work Plan (40 Points)	Proximity (5 Points)	JSEB (5 Points)	Total	Rank
ASD|SKY	25.61	12.00	16.00	3.00	2.00	58.61	10
CallisonRTKL Inc.	24.68	10.00	10.00	2.00	0.00	46.68	13
Gensler	22.77	17.00	27.00	3.00	4.00	73.77	5
Gresham Smith	22.81	16.00	28.00	3.00	4.00	73.81	4
Kasper Architects	22.39	13.00	28.00	5.00	4.00	72.39	7
Little	27.65	13.00	31.00	2.00	4.00	77.65	3
LS3P	20.16	14.00	32.00	3.00	0.00	69.16	8
Nelson Worldwide	23.29	9.00	22.00	4.00	4.00	62.29	9
PQH Group	25.90	12.00	25.00	5.00	5.00	72.9	6
RDB Design Associates	24.81	17.00	27.00	5.00	4.00	77.81	2
RS&H	27.55	15.00	31.00	5.00	0.00	78.55	1
Ryan Companies	17.42	9.00	22.00	0.00	2.00	50.42	12
Walker Architects	20.65	11.00	17.00	3.00	0.00	51.65	11

S.Pressley	Professional Staff Experience (30 Points)	Company Experience (20 Points)	Design Approach and Work Plan (40 Points)	Proximity (5 Points)	JSEB (5 Points)	Total	Rank
ASD|SKY	25.16	16	30	3	2	76.16	2
CallisonRTKL Inc.	23.97	5.00	9.00	2.00	0.00	39.97	13
Gensler	24.77	7.00	11.00	3.00	4.00	49.77	8
Gresham Smith	23.16	15.00	25.00	3.00	4.00	70.16	3
Kasper Architects	20.16	5.00	8.00	5.00	4.00	42.16	12
Little	25.90	12.00	18.00	2.00	4.00	61.9	5
LS3P	22.45	12.00	12.00	3.00	0.00	49.45	10
Nelson Worldwide	23.55	16.00	2.00	4.00	4.00	49.55	9
PQH Group	23.65	8.00	11.00	5.00	5.00	52.65	7
RDB Design Associates	23.52	15.00	12.00	5.00	4.00	59.52	6
RS&H	25.06	18.00	31.00	5.00	0.00	79.06	1
Ryan Companies	17.19	14.00	29.00	0.00	2.00	62.19	4
Walker Architects	22.06	5.00	19.00	3.00	0.00	49.06	11

B. Edwards	Professional Staff Experience (30 Points)	Company Experience (20 Points)	Design Approach and Work Plan (40 Points)	Proximity (5 Points)	JSEB (5 Points)	Total	Rank
ASD|SKY	28.71	17	17	3	2	67.71	8
CallisonRTKL Inc.	27.42	11.00	16.00	2.00	0.00	56.42	11
Gensler	26.77	11.00	30.00	3.00	4.00	74.77	6
Gresham Smith	26.65	17.00	27.00	3.00	4.00	77.65	2
Kasper Architects	25.74	15.00	25.00	5.00	4.00	74.74	7
Little	29.35	10.00	30.00	2.00	4.00	75.35	4
LS3P	22.81	10.00	17.00	3.00	0.00	52.81	13
Nelson Worldwide	24.16	11.00	11.00	4.00	4.00	54.16	12
PQH Group	27.84	12.00	17.00	5.00	5.00	66.84	9
RDB Design Associates	26.52	15.00	27.00	5.00	4.00	77.52	3
RS&H	28.55	17.00	31.00	5.00	0.00	81.55	1
Ryan Companies	22.94	18.00	32.00	0.00	2.00	74.94	5
Walker Architects	24.10	13.00	22.00	3.00	0.00	62.1	10

M. Newton-Green	Professional Staff Experience (30 Points)	Company Experience (20 Points)	Design Approach and Work Plan (40 Points)	Proximity (5 Points)	JSEB (5 Points)	Total	Rank
ASD|SKY	29.29	20	36	3.00	2.00	90.29	6
CallisonRTKL Inc.	28.77	18	34	2.00	0.00	82.77	12
Gensler	27.35	20	37	3.00	4.00	91.35	4
Gresham Smith	28.06	20	38	3.00	4.00	93.06	2
Kasper Architects	26.87	20	38	5.00	4.00	93.87	1
Little	29.61	18	32	2.00	4.00	85.61	11
LS3P	26.84	18	32	3.00	0.00	79.84	13
Nelson Worldwide	27.1	20	35	4.00	4.00	90.1	7
PQH Group	29.42	20	30	5.00	5.00	89.42	8
RDB Design Associates	27.29	18	37	5.00	4.00	91.29	5
RS&H	28.77	20	39	5.00	0.00	92.77	3
Ryan Companies	26.97	18	40	0.00	2.00	86.97	10
Walker Architects	26.71	20	38	3.00	0.00	87.71	9

J. Connell	Professional Staff Experience (30 Points)	Company Experience (20 Points)	Design Approach and Work Plan (40 Points)	Proximity (5 Points)	JSEB (5 Points)	Total	Rank
ASD|SKY	18.58	18	34	3	2	75.58	6
CallisonRTKL Inc.	17.55	12	12	2	0	43.55	13
Gensler	16.26	20	36	3	4	79.26	3
Gresham Smith	16.77	19	35	3	4	77.77	4
Kasper Architects	15.35	19	21	5	4	64.35	8
Little	19.23	15	37	2	4	77.23	5
LS3P	16.26	14	15	3	0	48.26	12
Nelson Worldwide	16.77	13	11	4	4	48.77	11
PQH Group	18.84	18	15	5	5	61.84	9
RDB Design Associates	17.35	20	40	5	4	86.35	1
RS&H	17.55	20	40	5	0	82.55	2
Ryan Companies	13.42	15	34	0	2	64.42	7
Walker Architects	16	17	19	3	0	55	10

Overall Averages	Professional Staff Experience (30 Points)	Company Experience (20 Points)	Design Approach and Work Plan (40 Points)	Proximity (5 Points)	JSEB (5 Points)	Total
ASD|SKY	25.47	16.60	26.60	3.00	2.00	73.67
CallisonRTKL Inc.	24.48	11.20	16.20	2.00	0.00	53.88
Gensler	23.58	15.00	28.20	3.00	4.00	73.78
Gresham Smith	23.49	17.40	30.60	3.00	4.00	78.49
Kasper Architects	22.10	14.40	24.00	5.00	4.00	69.50
Little	26.35	13.60	29.60	2.00	4.00	75.55
LS3P	21.70	13.60	21.60	3.00	0.00	59.90
Nelson Worldwide	22.97	13.80	16.20	4.00	4.00	60.97
PQH Group	25.13	14.00	19.60	5.00	5.00	68.73
RDB Design Associates	23.90	17.00	28.60	5.00	4.00	78.50
RS&H	25.50	18.00	34.40	5.00	0.00	82.90
Ryan Companies	19.59	14.80	31.40	0.00	2.00	67.79
Walker Architects	21.90	13.20	23.00	3.00	0.00	61.10

JEA HEADQUARTERS - TENANT IMPROVEMENTS
RS&H Design and CA Fees
10/22/2020 (Rev 1)

PHASE 1 - Program Acceptance

Project Activity	Total Estimated Man Hours	Estimated Man Hours for RS&H Team: Project Officer	Project Manager	Project Architecture	Interior Design	Mechanical Engineering	Electrical Engineering	Structural Engineering	WELL Coordination	Construction Administration
Review/Update Program Docs	124	12	32	8	64	4	4			
Test Fits - Look and Feel Package	260	16	40	20	160	8	8		8	
Phase 1 Total	384	28	72	28	224	12	12	0	8	0
Hourly Rates		210	185	135	105	155	155	155	115	100
Phase 1 Fees	51140	5880	13320	3780	23520	1860	1860	0	920	0

PHASE 2 - Planning and Design

Project Activity	Total Estimated Man Hours	Estimated Man Hours for RS&H Team: Project Officer	Project Manager	Project Architecture	Interior Design	Mechanical Engineering	Electrical Engineering	Structural Engineering	WELL Coordination	Construction Administration
75% SD & Furniture Pricing Packages	456	20	96	88	120	64	64	4		
Release Furniture RFP	52	4	8		32		8			
100% Schematic Design Package	336	20	80	104	80	16	16	4	16	
50% DD Pricing Package	592	20	112	136	104	100	100	12	8	
Finalize Furniture Vendor Selection	36	4	8		20		4			
100% Design Development Package	532	24	96	124	64	88	88	12	16	20
75% CD Pricing/Permit Package	852	32	172	188	140	124	124	24	24	24
100% Construction Document Package	604	40	88	132	64	100	100	16	32	32
Phase 2 Total	3460	164	660	772	624	492	504	72	96	76
Hourly Rates		210	185	135	105	155	155	155	115	100
Phase 2 Fees	510460	34440	122100	104220	65520	76260	78120	11160	11040	7600

PHASE 3 - Project Approval and Administration

Project Activity	Total Estimated Man Hours	Estimated Man Hours for RS&H Team: Project Officer	Project Manager	Project Architecture	Interior Design	Mechanical Engineering	Electrical Engineering	Structural Engineering	WELL Coordination	Construction Administration
Building Permit Approval	80	4	20	20		16	16	4		
CM/GC Bidding Assistance	92	8	20	20	8	8	8	4		16
Shop Drawing, Submittal and RFI Reviews	612		60	112	88	92	92	8		160
Job Site Meetings and Field Reports	564	36	160	80		80	80	8		120
Commissioning/Punch List Approvals	180	4	16	32	32	32	32			32
Phase 3 Total	1528	52	276	264	128	228	228	24	0	328
Hourly Rates		210	185	135	105	155	155	155	115	100
Phase 3 Fees	218260	10920	51060	35640	13440	35340	35340	3720	0	32800
TOTAL RS&H MANHOURS	5372	244	1008	1064	976	732	744	96	104	404
TOTAL FEES - HQ TOWER DESIGN/CA	779860	51240	186480	143640	102480	113460	115320	14880	11960	40400

RS&H FEE SUMMARY	
Base Design/CA (153,628 SF HQ Tower TI)	779860
Reimbursable Expenses	9000
Subtotal	**788860**
Allowances	
Garage "Retail" TI Design (10,000 SF)	60000
Branding-Signage Consultant	84000
Acoustical Consultant	55000
LEED Consultant	12000
Cost Estimating Consultant	20000
Subtotal	**231000**
TOTAL DESIGN/CA FEES with ALLOWANCES	**1019860**

RS&H

10748 Deerwood Park Blvd. S.
Jacksonville, Florida 32256

O 904-256-2500
F 256-2502
rsandh.com

15 November 2021

Ms. Nancy Kilgo Veasey
Director, Special Projects
Mr. Matthew D. Poteet
Associate Manager Facilities Capital Projects
JEA
21 West Church Street
Jacksonville, FL 32202

RE: JEA HQ - Tenant Improvements
Jacksonville, FL 32202
ASR #02 – LEED Fees

Dear Nancy/Matt:

As a revision to our original project scope for the referenced building, RS&H respectfully submits Additional Service Request 02 (ASR #02) for reimbursement for projected fees associated with LEED certification with estimated fees listed below. These fees are based on the total Tenant Improvement square footage of 127,000 USF.

SCOPE OF WORK:

Estimated LEED Fees (Paid directly to GBCI):

▪ Registration Fee Flat Fee	**$ 1,200**
▪ Combined Review (Design & Construction)	
Project gross floor area (excl parking) less than 250,000SF @ $0.038/SF (Silver)	$ 4,826
▪ Split Review (Design)	
Project gross floor area (excl parking) less than 250,000SF @ $0.032/SF (Silver)	**$ 4,064**
▪ Split Review (Construction	
Project gross floor area (excl parking) less than 250,000SF @ $0.011SF (Silver)	**$ 1,397**
Projected Total based on Split Review	**$ 6,661**

Estimate for LEED not to exceed $10,000 in case of incidentals or any fee changes in 2022

Based on the projected fees for LEED Silver Certification, we would request a not-to-exceed amount of **$10,000** billed as a reimbursable expense as incurred.

Nancy/Matt, if this proposal meets with your approval, please indicate your acceptance by providing a purchase order and/or signing this letter below and returning one copy to us. All other terms and

conditions of our master agreement shall apply. On behalf of RS&H, we thank you for this opportunity and we look forward to our continued collaboration.

Sincerely,
RS&H, Inc.

Kristen Bolt, AIA, ID
Senior Project Manager

Charles W. Fritts, Jr., LEED AP
Vice President

JEA

Accepted this _____ day of _____ 2021. Authorization to proceed is hereby given.

By: _____

Title: _____

U:\P\JEA\501-0896-000 Tenant Improvement\DOCS\C-Contract Data\C.4 Additional Services\ASR02_11 15 21\JEA Tenant Improvement ASR02 11 15 21.docx

RS&H

10748 Deerwood Park Blvd. S.
Jacksonville, Florida 32256

O 904-256-2500
F 256-2502
rsandh.com

15 November 2021

Ms. Nancy Kilgo Veasey
Director, Special Projects
Mr. Matthew D. Poteet
Associate Manager Facilities Capital Projects
JEA
21 West Church Street
Jacksonville, FL 32202

RE: JEA HQ - Tenant Improvements
Jacksonville, FL 32202
ASR #03 – WELL Fees

Dear Nancy/Matt:

As a revision to our original project scope for the referenced building, RS&H respectfully submits Additional Service Request 03 (ASR #03) for reimbursement for projected fees associated with WELL certification with estimated fees listed below. These fees are based on the total Tenant Improvement square footage of 127,000 USF.

SCOPE OF WORK:

Estimated WELL Fees:

▪ Enrollment Fee	Flat Fee	**$ 2,500**
▪ Program Fee	$0.016/SF	**$20,320**
▪ Performance Testing estimated cost for GBCI to complete performance testing/verification		**$18,330**
Total		**$41,150**

Optional services:

▪ Precertification	$0.05/SF	**$ 6,350**
▪ Health-Safety Rating	Flat Fee	**$ 2,500**

Total with Optional Services **$50,000**
Estimate for WELL not to exceed $60,000 in case of incidentals or fee changes in 2022

Based on the projected fees for WELL Silver Certification, we would request a not-to-exceed amount of **$60,000** billed as a reimbursable expense as incurred.

Nancy/Matt, if this proposal meets with your approval, please indicate your acceptance by providing a purchase order and/or signing this letter below and returning one copy to us. All other terms and

conditions of our master agreement shall apply. On behalf of RS&H, we thank you for this opportunity and we look forward to our continued collaboration.

Sincerely,
RS&H, Inc.

Kristen Bolt, AIA, ID
Senior Project Manager

Charles W. Fritts, Jr., LEED AP
Vice President

JEA

Accepted this _____ day of _____ 2021. Authorization to proceed is hereby given.

By: _____

Title: _____

U:\P\JEA\501-0896-000 Tenant Improvement\DOCS\C-Contract Data\C.4 Additional Services\ASR03_11 15 21\JEA Tenant Improvement ASR03 11 15 21.docx

Formal Bid and Award System

Award #6 November 18, 2021

Type of Award Request: EMERGENCY
Requestor Name: Smith, Brandy – Systems Engineer
Requestor Phone: (904)-665 – 7987
Project Title: KGS TP7SU Transformer Installation
Project Number: 8007633
Project Location: JEA
Funds: CAPITAL
Budget Estimate: $79,650.00
Scope of Work:

The Kennedy Generating Station Unit 7 start up transformer TP7 SU failed in October 16, 2021. JEA had a spare transformer at WSSC that matched the voltage class needed, however, it was not physically laid out the same. JEA modified the transformer to facilitate it working with the existing transformer layout, however, some construction work has been required to support the installation.

The transformer failed at 4:07AM on Saturday 10/16/21. JEA expects the unit to be available for energization by close of business on Friday 11/19/21 after JEA underground crews splices the cable. JEA is working with Cogburn on several other projects & other substation control work and was able to have them quote and mobilized to begin replacement & installation. Following statutes 255.20 for electrical construction not on a continuing services contract, JEA would have needed to follow a formal bid procedure for electrical construction work over $75,000.00, as such, and in accordance with JEA's Procurement Code, JEA elected to process this work as an emergency as outlined below.

JEA Requisition / PO Number: 201323
Purchasing Agent: Lovgren, Rodney
Is this a Ratification?: YES – Cogburn was issued PO in October

RECOMMENDED AWARDEE(S):

Name	Contact Name	Address	Phone	Amount
COGBURN BROS INC.	Austin Helmers	3300 Faye Road, Jacksonville, FL 32226	(904) 358-7344	$79,650.00

Amount for entire term of Contract/PO: $79,650.00
Award Amount for remainder of this FY: $79,650.00
Length of Contract/PO Term: Project Completion
Begin Date (mm/dd/yyyy): 10/28/2021
End Date (mm/dd/yyyy): Project Completion (est. Nov 2021)
JSEB Requirement: N/A – Emergency

Background/Recommendations:

This emergency award amount includes the 5kV materials needed to support installation for Kennedy Generating Station's start up transformer TP7SU.

(1) Furnish and Installation of:
- 11’ X 30” X 24” Aluminum Gutter Box
- 36” Aluminum Cable Tray with Covers
- Cable Tray Support Stands
- 500MCM CU 5KV – 1/C EPR MV-105 Cable from Splicing Location to new TP7SU
- 3M Cold Shrink Rubber Splicing Kits 5553
- 3M Cold Shrink QT-III Silicone Rubber Skirted Termination Kits 7693-S-4
- 2/0 XHHW Cable for Neutral Wiring
- Burndy Compression Splicing to Extend Neutral Wiring

(2) Removal/Installation of (10) #10AWG Control Cables from KGS Control House
(3) Equipment Rental

JEA elected to process this work on an Emergency Basis, based on JEA’s Procurement Code section 3-113, item (a) a reasonably unforeseen breakdown in machinery;

Request approval of awarded purchase order to Cogburn Bros Inc, for KGS transformer TP7SU installation to support production availability in the amount of $79,650.00, subject to the availability of lawfully appropriated funds.

Manager: Hamilton, Darrell D. - Mgr Transmission and Substation Projects
Director: Acs, Gabor - Sr Dir Engineering & Projects
VP: Erixton, Ricky – VP Electric Systems

APPROVALS:

_____

Chairman, Awards Committee **Date**

_____

Budget Representative **Date**

3300 Faye Road
Phone (904) 358-7344 Jacksonville, FL 32226 Fax (904) 358-2805

Novemeber 4, 2021

JEA
21 W. Church St
Jacksonville, Florida 32202

RE: JEA KENNEDY TP7SU EMERGENCY REPLACEMENT

Cogburn Bros. Electric is pleased to provide you with this Lump Sum Quotation for the electrical portion of the above referenced project.

Our Price Includes:

1. Furnish and Installation of:
    a. (1) 11' X 30" X 24" Aluminum Gutter Box
    b. 36" Aluminum Cable Tray with Covers
    c. (2) Cable Tray Support Stands
    d. 500MCM CU 5KV – 1/C EPR MV-105 Cable from Splicing Location to new TP7SU
    e. 1/0 AWG CU 5KV – 1/C EPR MV-105 Cable from NGR to new TP7SU X0 Bushing
    f. 2/0 XHHW Cable for Neutral Wiring
    g. Burndy Compression Splicing to Extend Neutral Wiring
    h. Raceways and Fittings for Control Cables from New junction box to TP7SU Control Panel
    i. Raceways and Fittings inside KGS Control House for New Control Cable Installations
2. Installation of:
    a. Junction Box and Terminal Strip at TP7SU for Control Cable Splicing
    b. (1) 8C #10 AWG and (1) 4C #10 AWG from New junction box to TP7SU Control Panel
    c. (3) 4C #10AWG Control Cables from KGS Control House
3. Furnishing of:
    a. 3M Cold Shrink QT-III Silicone Rubber Skirted Termination Kits 7693-S-4
4. Credit of $4,402.75 for Cable Splicing Kits (includes restocking fee)
5. Equipment Rental

Our Price does not include:

1. 5 KV Cable Splicing
2. 5 KV Cable Terminations

LUMP SUM QUOTE $79,650.00

If you have any questions or need additional information, please do not hesitate to contact me**.**

Sincerely,

Austin Helmers
Cogburn Bros. Electric

3300 Faye Road
Phone (904) 358-7344 Jacksonville, FL 32226 Fax (904) 358-2805

October 27, 2021

JEA
21 W. Church St
Jacksonville, Florida 32202

Attention: Brandy Smith

RE: JEA KENNEDY TP7SU EMERGENCY REPLACEMENT

Cogburn Bros. Electric is pleased to provide you with this **BUDGETARY** quotation for the electrical portion of the above referenced project. Our scope of work includes Complete Electrical Installation based on the information acquired from Site. Please do not hesitate to contact me if you have any questions.

Our Price Includes:

1. Furnish and Installation of:
    a. (1) 11' X 30" X 24" Aluminum Gutter Box
    b. 36" Aluminum Cable Tray with Covers
    c. (2) Cable Tray Support Stands
    d. 500MCM CU 5KV – 1/C EPR MV-105 Cable from Splicing Location to new TP7SU
    e. 3M Cold Shrink Rubber Splicing Kits 5553
    f. 3M Cold Shrink QT-III Silicone Rubber Skirted Termination Kits 7693-S-4
    g. 2/0 XHHW Cable for Neutral Wiring
    h. Burndy Compression Splicing to Extend Neutral Wiring
2. Removal/Installation of (10) #10AWG Control Cables from KGS Control House
3. Equipment Rental

Our Price does not include:

1. 5 KV Cable Splicing
2. 5 KV Cable Terminations
3. Complete 5 KV Cable Replacement

BUDGETARY QUOTE **$79,650.00**

If you have any questions or need additional information, please do not hesitate to contact me**.**

Sincerely,

Austin Helmers
Cogburn Bros. Electric

Formal Bid and Award System

Award #7 November 18, 2021

Type of Award Request: PROPOSAL (RFP)
Requestor Name: Hill, Shay
Requestor Phone: (904) 665-6952
Project Title: Byproduct Environmental Support Services
Project Number: A0610, Exp Type 2002 and 2018 (lines 1594 & 1600)
Project Location: JEA
Funds: O&M
Budget Estimate: $200,000.00 annually ($633,333.33 Award Total)
Scope of Work:

JEA is seeking a consultant/surveyor to provide professional services for byproduct environmental compliance support and marketing services.

JEA is soliciting proposals for professional services from environmental consulting companies to provide solid waste byproduct marketing and environmental support associated with byproduct from circulating fluidized bed and other turbine power generation facilities at the Northside Generating Station (NGS) and the St. John's River Power Park (SJRPP). Note SJRPP services are associated with the legacy byproduct storage area and remediated site. These services require a combination of technical expertise and an extensive understanding of applicable regulatory requirements. The scope of services will be determined based on need and generally consist of the following:

- Design environmental and materials characteristics testing program.
- Meet and correspond with environmental regulatory agencies on behalf of JEA.
- Prepare Conceptual Site Models, Site Assessment Work Plans, Site Assessment Reports and Remediation Plans per Florida Administrative Code Chapter 62-780.
- Conduct soil, groundwater, sediment, surface water, and air investigations.
- Prepare treatability study plans and conduct treatability studies.
- Prepare and implement Pilot Study Work Plans.
- Design and conduct study of environmental characteristics of fugitive dust from roadway construction materials.
- Monitoring well design, installation, redevelopment, surveying, sampling.
- Design subsurface drilling program.
- Design haul road stormwater management systems and prepare Environmental Resource Permit applications.
- Pond liner repair planning, documentation, and reporting.
- Prepare Technical Reports per the requirements of Florida Administrative Code Chapter 62-701.
- Prepare Environmental Resource Permit applications for electric transmission lines.
- The raw data, aerial photographs, and other collected information shall be processed with final information and engineered products delivered to JEA in accordance with these specifications.

JEA IFB/RFP/State/City/GSA#: 1410376246
Purchasing Agent: Lovgren, Rodney
Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
MECHLING ENGINEERING & CONSULTING INC.	Mark Mechling	mmechling@mechlingeng.com	1714 Belmonte Ave, Jacksonville, FL 32207	(904)346-5468	$633,333.33

Amount for entire term of Contract/PO: $633,333.33
Award Amount for remainder of this FY: $200,000.00
Length of Contract/PO Term: Three (3) Years, Two – 1 Yr. Renewals
Begin Date (mm/dd/yyyy): 11/30/2021
End Date (mm/dd/yyyy): 11/29/2024
JSEB Requirement: Optional
Comments on JSEB Requirements:
Mechling Engineering & Consulting Inc - 100%

PROPOSERS:

Name	Rank	Points
MECHLING ENGINEERING & CONSULTING INC.	1	95.7
GEOSYNTEC CONSULTANTS INC.	2	88.8
GOLDER ASSOCIATES INC.	3	86.8

Background/Recommendations:
Advertised on 08/04/2021. Five (5) prime companies attended the mandatory pre-proposal meeting held on 08/10/2021. At proposal opening on 08/31/2021, JEA received 3 Proposals. The public evaluation meeting was held on 10/05/2021 and JEA deemed Mechling Engineering & Consulting Inc. the most qualified to perform the work. A copy of the evaluation matrix and negotiated schedule and fees are attached as backup.

Each company submitted job titles and approaches for the scope of work in the solicitation. JEA reviewed the proposals comparatively between submitting respondents. The approach submitted by Mechling was consistent and contained all the project elements / work scopes which were scored highest of submitting companies for the various deliverables, evaluating, resumes, design approach for services, experience, proximity & JSEB.

Negotiations with Mechling were successfully completed. Historically JEA has fulfilled environmental byproduct service needs by processing informal CCNA direct < $35,000.00 purchase orders as needed. Over time the volume of these individual needs has grown so JEA elected to perform a formal CCNA solicitation. Mechling's average rate for job titles is $147 / hour. The weighted average hourly rate for the current forecast hours is $124.74. The directly comparable rates from Mechling's other small project work are up 5.3%. Not all rates in this scope of work have been included in previous small project work and were not comparable directly to Mechling's historical rates, however, when comparing these rates to other engineering and consulting firms for similar services pricing is considered reasonable.

The budget estimate of $200,000.00 annually is for the estimated $100,000.00 of byproducts environmental consulting and services described in the scope of work, as well as provides funds for any ad-hoc FDEP requests that may be required in support of the byproduct operations NGS and legacy SJRPP.

1410376246 – Request approval to award a contract to Mechling Engineering & Consulting Inc. for in the amount of $633,333.33, subject to the availability of lawfully appropriated funds.

Manager: Reinker, Nancy L. - Mgr Fuels Mgmt Services
Sr. Director: Baker, W. Garry - Sr Dir Energy Operations
VP: Erixton, Ricky D. - VP Electric Systems

APPROVALS:

_____

Chairman, Awards Committee **Date**

_____

Budget Representative **Date**

JEA

NGS Byproduct Environmental Compliance Consulting Support and Services
Solicitation #1410376246

Mechling Engineering & Consulting, Inc.

Proposed Unit Rates - Professional Services

Submitted November 2, 2021

CATEGORY	HOURLY RATE
Administrator	$60.00
CADD Services	$95.00
Technical Editor	$95.00
Technician I	$60.00
Technician II	$70.00
Technician III	$80.00
Eng/Geol/Scientist I	$85.00
Eng/Geol/Scientist II	$95.00
Eng/Geol/Scientist III	$105.00
Eng/Geol/Scientist IV	$115.00
Licensed Engineer/Geol I	$125.00
Licensed Engineer/Geol II	$135.00
Licensed Engineer/Geol III	$155.00
Licensed Engineer/Geol IV	$175.00
Licensed Engineer/Geol V	$195.00
Licensed Engineer/Geol VI	$225.00
Surveyor - 2 person field crew	$175.00
Surveyor - 3 person field crew	$225.00
Surveyor - 4 person field crew	$260.00
Licensed Surveyor/Mapper	$175.00
Toxicologist	$195.00
Toxicologist (Senior)	$350.00

JEA

NGS Byproduct Environmental Compliance Consulting Support and Services
Solicitation #1410376246

Mechling Engineering & Consulting, Inc.

Proposed Unit Rates - Expendables
Submitted November 2, 2021

ITEM	UNIT RATE	
2” Diam. PVC Screen (5 ft.)	$40.00	each
2” Diameter PVC Riser (5 ft.)	$25.00	each
2” Diameter PVC well point	$10.00	each
20/30 Silica Sand – 50 lb. bag	$7.00	each
Locking cap for 2” diameter well	$10.00	each
Brass Lock	$6.00	each
Teflon Bailers	$20.00	each
Compressor and Controller for Bladder Pumps	$200.00	per day
Concrete Saw	$110.00	per day
Core drill with bit	$145.00	per day
DO Meter	$40.00	per day
Drums (55-gal steel)	$75.00	each
Drums (55-gal HDPE)	$125.00	each
F.I.D. Organic Vapor Analyzer (OVA)	$150.00	per day
Field Supplies	$30.00	per day
Generator for coring rig	$75.00	per day
Groundwater Filters	$17.00	each
Hand Auger	$25.00	per day
Interphase Probe	$60.00	per day
OVT Cups	$1.25	each
P.I.D. Organic Vapor Analyzer	$100.00	per day
Peristaltic Pump	$45.00	per day
pH Meter	$45.00	per day
HD Polyethylene Sample Tubing	$1.00	per foot
Ponar Sampler	$35.00	per day
Silicon Sample Tubing	$5.00	per foot
Slug Test Equipment (datalogger, transducer, slugs)	$250.00	per day
Submersible Pump	$150.00	per day
Survey Equipment	$100.00	per day
Teflon-lined HDPE Sample Tubing	$2.50	per foot
Truck	$100.00	per day
Turbidity Meter	$45.00	per day
Water Level Indicator	$35.00	per day
Multi Meter (Conductivity, DO, Temp, pH, ORP)	$150.00	per day

JEA

NGS Byproduct Environmental Compliance Consulting Support and Services
Solicitation #1410376246

Mechling Engineering & Consulting, Inc.
Proposed Unit Rates - Analytical Laboratory Services
Submitted November 2, 2021

PARAMETER	METHOD	MATRIX	UNIT FEE
Volatile Organic Aromatics	EPA 8260	Soil/GW	$45.00
Volatile Organic Halocarbons	EPA 8260	Soil/GW	$58.00
Full Volatile Organic Compounds	EPA 8260	Soil/GW	$115.00
Full Semi-volatile Organic Compounds	EPA 8270	Soil/GW	$215.00
16 polycyclic aromatic hydrocarbons (PAHs)	EPA 8270	Soil/GW	$85.00
TRPH	Florida Pro	Soil/GW	$80.00
4 RCRA Metals	200,7/6010	Soil/GW	$55.00
8 RCRA Metals	6010/7470	Soil/GW	$120.00
organochlorine pesticides	EPA 8081	Soil/GW	$115.00
organophosphorus pesticides	EPA 8141	Soil/GW	$115.00
chlorinated herbicides	EPA 8151	Soil/GW	$140.00
TCLP Extraction	EPA 1311	Soil/GW	$55.00
SPLP Extraction	EPA 1312	Soil/GW	$55.00
Individual Metals	200.7/6010	Soil/GW	$13.00
Individual Metals	200.8/6020	Soil/GW	$16.00
Sulfate	E300.0	GW/SW	$22.00
Hardness	SM2340B	SW	$12.00

JEA

Solicitation #1410376246

Mechling Engineering & Consulting, Inc.

Proposed Unit Rates - Drilling Services

Submitted November 2, 2021

ITEM	UNIT RATE	
Mobilization - Demobilization (1-3 days)	$385.00	LS
Mobilization - Demobilization (> 3 days)	$725.00	LS
DPT Rig & Two Man Crew	$2,150.00	Day
2" Monitor well	$35.00	Feet
2" Prepack Screens(5' Lengths)	$225.00	Each
4" PVC Surface casing	$75.00	Feet
6" PVC Surface casing	$95.00	Feet
Borehole drilled for split spoon only	$30.00	Feet
Split Spoon Samples	$33.00	Each
Decontamination	$150.00	Hour
Manholes to grade w/ pad, locking cap	$235.00	Each
Concrete Saw, each use as needed	$110.00	Day
Coring Machine Rental	$145.00	Day
Steam Cleaner Rental	$130.00	Day
Development	$125.00	Hour
4" Protective Risers w/ pad, locking cap	$260.00	Each
Monitor Well Abandonment (2" or Less)	$17.00	Feet
Monitor Well Abandonment (4")	$22.00	Feet
Removal of pads & surface completions	$210.00	Each
Backfill/ Patch after pad removal	$115.00	Each
Site Specific Safety Training	$200.00	Hour
Stand by time	$170.00	Hour
Permit/Completion Report/Admin Fee	$175.00	Each

MECHLING & ASSOCIATES RATES

> Work Classifications	Subtotal Estimate Per Service - ON AN ANNUAL BASIS	Administrator	CADD Services	Technical Editor	Technician I	Technician II	Technician III	Eng/Geol/Scientist I	Eng/Geol/Scientist II	Eng/Geol/Scientist III	Eng/Geol/Scientist IV	Licensed Engineer/Geol I	Licensed Engineer/Geol II	Licensed Engineer/Geol III	Licensed Engineer/Geol IV	Licensed Engineer/Geol V	Licensed Engineer/Geol VI	Surveyor - 2 person field crew	Surveyor - 3 person field crew	Surveyor - 4 person field crew	Licensed Surveyor/Mapper	Toxicologist	Toxicologist (Senior)	
Scope of Services		$60.00	$95.00	$95.00	$60.00	$70.00	$80.00	$85.00	$95.00	$105.00	$115.00	$125.00	$135.00	$155.00	$175.00	$195.00	$225.00	$175.00	$225.00	$260.00	$175.00	$195.00	$350.00	Total Hours
Environmental and materials characteristics testing program Design	$0.00																							0
Environmental Agency Consult w/ JEA	$2,800.00														16									16
62-780 Conceptual Site Models	$0.00																							0
62-780 Site Assessment Work Plans	$4,790.00											24			8	2								34
62-780 Site Assessment Reports	$15,990.00	16	30									80			8	4								138
62-780 Remediation Plans	$0.00																							0
soil, groundwater, sediment, surface water, and air investigations	$24,550.00		20		50						80	30			16	20								216
treatability study plans and conduct treatability studies	$0.00																							0
Prepare and implement Pilot Study Work Plans	$0.00																							0
Design and conduct study of environmental characteristics of fugitive dust from roadway construction materials	$0.00																							0
Monitoring well design, installation, redevelopment, surveying, sampling	$3,000.00										10				5	5								20
Design subsurface drilling program	$2,770.00		4									16				2								22
Design haul road stormwater management systems and prepare Environmental Resource Permit applications.	$0.00																							0
Pond liner repair planning, documentation, and reporting.	$4,460.00		4								20	8				4								36
Prepare Technical Reports per the requirements of Florida Administrative Code Chapter 62-701.	$14,990.00	8	10									40			40	8								106
Prepare Environmental Resource Permit applications for electric transmission lines.	$0.00																							0
SUBTOTAL FOR PROFESSIONAL SERVICES	**$73,350.00**	24	68	0	50	0	0	0	0	0	110	198	0	0	93	45	0	0	0	0	0	0	0	**588**

Total Hours $147.73

SUBTOTAL FOR ANALYTICAL SERVICES	**$9,680.00**
SUBTOTAL FOR DRILLING SERVICES	**$7,500.00**
SUBTOTAL FOR RENTAL EQUIPMENT AND EXPENDABLES	**$5,000.00**
SUBTOTAL FOR SURVEY SERVICES	**$2,500.00**
ESTIMATED ANNUAL BILLINGS	**$98,030.00**

Weighted Average Hourly Rate $124.74

Mechling & Associates Lab Service Rates

SERVICES	METHOD	MATRIX	UNIT FEE	ANNUAL ESTIMATE
Volatile Organic Aromatics	EPA 8260	Soil/GW	$45.00	
Volatile Organic Halocarbons	EPA 8260	Soil/GW	$58.00	
Full Volatile Organic Compounds	EPA 8260	Soil/GW	$115.00	
Full Semi-volatile Organic Compounds	EPA 8270	Soil/GW	$215.00	
16 polycyclic aromatic hydrocarbons (PAHs)	EPA 8270	Soil/GW	$85.00	
TRPH	Florida Pro	Soil/GW	$80.00	
4 RCRA Metals	200,7/6010	Soil/GW	$55.00	
8 RCRA Metals	6010/7470	Soil/GW	$120.00	
organochlorine pesticides	EPA 8081	Soil/GW	$115.00	
organophosphorus pesticides	EPA 8141	Soil/GW	$115.00	
chlorinated herbicides	EPA 8151	Soil/GW	$140.00	
TCLP Extraction	EPA 1311	Soil/GW	$55.00	
SPLP Extraction	EPA 1312	Soil/GW	$55.00	
Individual Metals	200.7/6010	Soil/GW	$13.00	$9,000.00
Individual Metals	200.8/6020	Soil/GW	$16.00	
Sulfate	E300.0	GW/SW	$22.00	$440.00
Hardness	SM2340B	SW	$12.00	$240.00

ANNUAL ESTIMATE **$9,680.00**

	Annual	Month	Month 2025
FY spend	$ 200,000.00	$ 16,666.67	2

Account	Excel lines	Exp. Type	FY22	FY23	FY24	FY25	Award totals
A0610	1594	2002	$ 100,000.00	$ 100,000.00	$ 100,000.00	$ 16,666.67	$ 316,666.67
A0610	1600	2018	$ 100,000.00	$ 100,000.00	$ 100,000.00	$ 16,666.67	$ 316,666.67
							$ 633,333.33

1410376246 NGS Byproduct Services Evaluation Summary

Vendor Rankings	Hill	Lugo	Starner	Σ Rank	Total		Rank
Mechling	99.0	98.8	89.3	287	95.67		1
Geosyntech	91.0	96.8	78.5	266	88.75		2
Golder	85.8	93.3	81.3	260	86.75		3

Hill	Professional Personnel (25 Points)	Design Approach and Work Plan (20 points)	Experience (35 points)	PM (10 Points)	Jacksonville Small & Emerging Business Program (10 points)	Total	Rank
Mechling	24.5	20.0	34.5	10.0	10.0	99.00	1
Geosyntech	23.5	16.0	32.5	10.0	9.0	91.00	2
Golder	23.8	16.0	31.0	10.0	5.0	85.75	3

Lugo	Professional Personnel (25 Points)	Design Approach and Work Plan (20 points)	Experience (35 points)	PM (10 Points)	Jacksonville Small & Emerging Business Program (10 points)	Total	Rank
Mechling	23.8	20.0	35.0	10.0	10.0	98.75	1
Geosyntech	23.8	19.0	35.0	10.0	9.0	96.75	2
Golder	24.3	19.0	35.0	10.0	5.0	93.25	3

Starner	Professional Personnel (25 Points)	Design Approach and Work Plan (20 points)	Experience (35 points)	PM (10 Points)	Jacksonville Small & Emerging Business Program (10 points)	Total	Rank
Mechling	22.3	15.0	32.0	10.0	10.0	89.25	1
Geosyntech	22.5	14.0	23.0	10.0	9.0	78.50	3
Golder	22.3	14.0	30.0	10.0	5.0	81.25	2

Overall Averages	Professional Personnel (25 Points)	Design Approach and Work Plan (20 points)	Experience (35 points)	PM (10 Points)	Jacksonville Small & Emerging Business Program (10 points)	Total
	23.50	18.33	33.83	10.00	10.00	95.67
	23.25	16.33	30.17	10.00	9.00	88.75
	23.42	16.33	32.00	10.00	5.00	86.75

Formal Bid and Award System

Award #8 November 18, 2021

Type of Award Request: REQUEST FOR PROPOSAL (RFP)
Request #: 233
Requestor Name: Veasey, Nancy A. - Dir Special Projects
Requestor Phone: (904) 665-6439
Project Title: Furniture Procurement, Delivery and Service for New Headquarters
Project Number: 8006820
Project Location: JEA
Funds: Capital
Budget Estimate: $2,000,000.00 (Workstations, Standard offices, Task Chairs)

Scope of Work:
The purpose of this Request for Proposal (RFP) is to evaluate and select a firm (“Firm” or “Company” or “Proposer”) from the prior Request for Qualifications, 101180 Furniture Procurement, Delivery and Service for New JEA Headquarters Qualified Category List in order for JEA to select the best value for providing furniture initially including workstations and standard office furniture. "Best Value" means the highest overall value to JEA with regards to pricing, quality, warranty and service, ability to meet project timeline and other selection criteria.

JEA established Qualified Category List(s) for Furniture Procurement for the new headquarters with four (4) firms awarded a position on the list. The Qualified Category List will be utilized to seek response packages and bids for specified workstation, bench design and for standard office furniture. JEA intends to select one firm to provide the furniture outlined in the technical specification and may also award the majority of the ancillary and support furniture needs to the same firm. JEA reserves the right to procure all or portions of the ancillary furniture from other firms on the qualified list. The terms and conditions for this solicitation were included and agreed upon by the qualified firms during Request for Qualifications 101180.

JEA IFB/RFP/State/City/GSA#: 1410376448
Purchasing Agent: Selders, Elaine L.
Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
PERDUE, INC.	Justin Perez	justin.perez@perdueoffice.com	5 W Forsyth Street, Suite 100, Jacksonville, FL 32202	904-256-5548	$1,327,101.95

Amount for entire term of Contract/PO: $1,327,101.95
Award Amount for remainder of this FY: $1,327,101.95
Length of Contract/PO Term: Project Completion
Begin Date (mm/dd/yyyy): 12/01/2021
End Date (mm/dd/yyyy): Project Completion (Expected: September 30, 2022)
JSEB Requirement: N/A - Optional

PROPOSERS:

Name	Amount	Rank
PERDUE, INC.	$2,705,088.37	1
WORKSCAPES, INC.	$2,995,610.00	2
OFFICE ENVIRONMENTS & SERVICES	$2,628,010.00	3

Background/Recommendations:

Advertised on 07/30/2021. At proposal opening on 08/24/2021, JEA received three (3) proposals. JEA evaluated the proposals based on pricing, quality, serviceability, timeline, ancillary furniture information, employee purchase program platforms and mockup presentations deeming Perdue, Inc. the most highly qualified company. A copy of the evaluation results and bid leveling document are attached as backup. The amounts shown on the bid leveling document and above in some instances included multiple options for the same item, examples are task and guest chairs, and additional optional items.

JEA will purchase furniture in phases. The first phase, which is considered in this award is the majority of items for the standard workstations, bench workstations and portions of items for the standard offices. There are 285 standard workstations, 174 standard bench workstations and 58 standard offices. The original proposal quantities were adjusted during the floor and furniture layouts during the interior design phase. The items not yet included for standard workstation and offices are storage options for the standard offices, accessories and task chairs. These items are being further reviewed and quantified. The estimated budget amount above was inclusive of the standard offices, workstations and task chairs. Additional workstations, office furniture, accessories and ancillary furniture and task chairs will be selected in the near future.

After determining the most highly qualified company, the JEA team reviewed alternate monitor arms, alternate storage options for bench workstations, alternate desktop power modules with wireless charging and miscellaneous accessories. The team also selected a less expensive table for the standard offices and selected a mid-priced guest chair from those proposed and presented by the top ranked firm.

Documentation for this Award includes a summary spreadsheet attached as backup showing items, unit prices and quantities in the first phase order. Additionally, Perdue has prepared a highly detailed invoice summary showing how the order will be filled and delivered by floor level for installation. This document is 81 pages and available for review through Procurement. Perdue requires a fifty percent (50%) deposit to place the order. The total amount for this phase is $1,327,101.95 and a deposit of $663,550.98 is required upon placement of the order. The award summary is slightly different than the individual unit item prices based on how the workstations and bench stations are grouped to be installed, i.e. groupings are typically four (4), six (6) or eight (8) workstations and each grouping requires appropriate end panels and common fence lengths.

1410376448 – Request approval to award a contract to Perdue, Inc. for Furniture Procurement, Delivery and Service for New Headquarters for the first phase for a total amount of $1,327,101.95, subject to the availability of lawfully appropriated funds.

Director: Veasey, Nancy A. - Dir Special Projects

VP: McElroy, Alan D. - VP Supply Chain & Operations Support

APPROVALS:

_____

Chairman, Awards Committee **Date**

_____

Budget Representative **Date**

JEA FURNITURE BID PROPOSAL COMPARISON FOR PACKAGE 1 - *QUANTITIES LEVELED 8/26/21

MANUFACTURER: / DEALER:	STEELCASE / PERDUE			HERMAN MILLER / WORKSCAPES			HAWORTH / OE&S			REMARKS
ITEM/Description										
SYSTEMS FURNITURE -	Quantity	AVERAGE Cost/Unit	ESTIMATED Total Cost	Quantity	AVERAGE Cost/Unit	ESTIMATED Total Cost	Quantity	AVERAGE Cost/Unit	ESTIMATED Total Cost	
6' x 6' Fence Workstation	301	$ 1,574.99	$ 474,071.99	301	$ 1,863.80	$ 561,003.80	301	$ 1,329.35	$ 400,134.35	
Fence Benching Style Workstation	174	$ 1,529.46	$ 266,126.04	174	$ 1,591.29	$ 276,884.46	174	$ 1,560.58	$ 271,540.92	
6' x 6' Fence Workstation Value Alternative	*301*	*$ 1,540.03*	*$ 463,549.03*	*301*	*$ 1,779.71*	*$ 535,692.71*	*301*	*$ 1,322.76*	*$ 398,150.76*	
Fence Benching Style Workstation Value Alternative	*174*	*$ 1,494.50*	*$ 260,043.00*	*174*	*$ 1,508.26*	*$ 262,437.24*	*174*	*$ 1,553.99*	*$ 270,394.26*	
Storage Item 1	533	$ 11.08	$ 5,905.64	533	$ 18.63	$ 9,929.79	533	$ 17.54	$ 9,348.82	
Storage Item 2	533	$ 400.35	$ 213,386.55	533	$ 495.45	$ 264,074.85	533	$ 208.43	$ 111,093.19	
Storage Item 3	533	$ 231.93	$ 123,618.69	533	$ 206.75	$ 110,197.75	533	$ 281.13	$ 149,842.29	
Storage Item 4	533	$ 395.21	$ 210,646.93	533	$ 525.26	$ 279,963.58	533	$ 687.84	$ 366,618.72	
PRIVATE OFFICE -	Quantity	AVERAGE Cost/Unit	ESTIMATED Total Cost	Quantity	AVERAGE Cost/Unit	ESTIMATED Total Cost	Quantity	AVERAGE Cost/Unit	ESTIMATED Total Cost	
Height Adjustable Table	58	$ 803.22	$ 46,586.76	58	$ 913.48	$ 52,981.84	58	$ 778.84	$ 45,172.72	
Height Adjustable Table Value Alternative	*58*	*$ 787.30*	*$ 45,663.40*	*58*	*$ 832.64*	*$ 48,293.12*	*58*	*$ 772.25*	*$ 44,790.50*	
Lateral Storage Item	58	$ 587.25	$ 34,060.50	58	$ 341.76	$ 19,822.08	58	$ 692.95	$ 40,191.10	
Coat Rack	58	$ 306.80	$ 17,794.40	58	$ 335.30	$ 19,447.40	58	$ 242.80	$ 14,082.40	
Meeting Table	58	$ 810.16	$ 46,989.28	58	$ 251.21	$ 14,570.18	58	$ 279.68	$ 16,221.44	
PRIVATE OFFICE GUEST CHAIRS	Quantity		Estimated Total Cost	Quantity		Estimated Total Cost	Quantity		Estimated Total Cost	
Guest Chair Option 1	116	$ 205.20	$ 23,803.20	116	$ 240.16	$ 27,858.56	116	$ 220.49	$ 25,576.84	
Guest Chair Option 2	116	$ 248.90	$ 28,872.40	116	$ 290.84	$ 33,737.44	116	$ 147.00	$ 17,052.00	
Guest Chair Option 3	116	$ 292.68	$ 33,950.88	116	$ 171.72	$ 19,919.52	116	$ 168.70	$ 19,569.20	
ACCESSORIES	Quantity		Estimated Total Cost	Quantity		Estimated Total Cost	Quantity		Estimated Total Cost	
Monitor Arm	533	$ 227.08	$ 121,033.64	533	$ 292.45	$ 155,875.85	533	$ 315.32	$ 168,065.56	
Office Markerboard	58	$ 140.90	$ 8,172.20	58	$ 810.06	$ 46,983.48	58	$ 169.60	$ 9,836.80	
Task Light	533	$ 176.48	$ 94,063.84	533	$ 165.91	$ 88,430.03	533	$ 192.12	$ 102,399.96	
INSTALLATION - LABOR			ESTIMATE			ESTIMATE			ESTIMATE	
SYSTEMS FURNITURE, PRIVATE OFFICES, TASK & GUEST CHAIRS - *PRICE FOR PACKAGE 1*			$ 186,750.00			$ 167,506			$ 147,928	
Quantities leveled (includes guest chairs)			$ 2,705,088.37			$ 2,995,610			$ 2,628,010	
Evaluation Matrix Scoring			24			22			25	

1410376448 Furniture Procurement, Delivery and Service for New Headquarters

Vendor Rankings	C. Crane	C. Smith	J. Connell	J. Peacock	M. Newton-Green	Σ Rank	**Rank**
Office Environments & Services	3	3	2	3	3	14	**3**
Perdue	1	1	1	1	1	5	**1**
Workscapes	2	2	3	2	2	11	**2**

C. Crane	Pricing (25 Points)	Quality (25 Points)	Serviceability (20 Points)	Timeline (15 Points)	Ancillary Furniture Information (10 Points)	Employee Purchase Program Platforms (5 Points)	Presentation/ Demonstration of Mock-ups (25 Points)
Office Environments & Services	25	18	16	15	9	3	20
Perdue	24	25	19	15	10	5	25
Workscapes	22	25	18	15	6	4	22

C. Smith	Pricing (25 Points)	Quality (25 Points)	Serviceability (20 Points)	Timeline (15 Points)	Ancillary Furniture Information (10 Points)	Employee Purchase Program Platforms (5 Points)	Presentation/ Demonstration of Mock-ups (25 Points)
Office Environments & Services	25	16	14	15	8	3	15
Perdue	24	25	17	15	10	4	25
Workscapes	22	20	18	15	10	3	25

J. Connell	Pricing (25 Points)	Quality (25 Points)	Serviceability (20 Points)	Timeline (15 Points)	Ancillary Furniture Information (10 Points)	Employee Purchase Program Platforms (5 Points)	Presentation/ Demonstration of Mock-ups (25 Points)
Office Environments & Services	25	17	16	13	7	4	17
Perdue	24	25	19	15	9	5	25
Workscapes	22	20	11	4	4	5	20

J. Peacock	Pricing (25 Points)	Quality (25 Points)	Serviceability (20 Points)	Timeline (15 Points)	Ancillary Furniture Information (10 Points)	Employee Purchase Program Platforms (5 Points)	Presentation/ Demonstration of Mock-ups (25 Points)
Office Environments & Services	25	10	9	9	6	2	7
Perdue	24	22	20	10	10	5	25
Workscapes	22	23	17	10	8	5	20

M. Newton-Green	Pricing (25 Points)	Quality (25 Points)	Serviceability (20 Points)	Timeline (15 Points)	Ancillary Furniture Information (10 Points)	Employee Purchase Program Platforms (5 Points)	Presentation/ Demonstration of Mock-ups (25 Points)
Office Environments & Services	25	20	14	12	6	4	15
Perdue	24	25	20	15	9	5	25
Workscapes	22	24	19	15	8	5	25

Overall Averages	Pricing (25 Points)	Quality (25 Points)	Serviceability (20 Points)	Timeline (15 Points)	Ancillary Furniture Information (10 Points)	Employee Purchase Program Platforms (5 Points)	Presentation/ Demonstration of Mock-ups (25 Points)
Office Environments & Services	25.00	16.20	13.80	12.80	7.20	3.20	14.80
Perdue	24.00	24.40	19.00	14.00	9.60	4.80	25.00
Workscapes	22.00	22.40	16.60	11.80	7.20	4.40	22.40

Furniture PROPOSAL WORKBOOK
Dealer to complete Shaded Areas -

As described in Solicitation 1.4.1.1. prices shall include all profit, taxes, benefits and all other overhead items. Delivery/freight number is an estimate as described below.

MANUFACTURER:	**Steelcase**			
DEALER:	**Perdue**			
ITEM/Description				
SYSTEMS FURNITURE -	***Quantity***	***AVERAGE Cost/Unit***	***ESTIMATED Total Cost***	
6' x 6' Fence Workstation *Including Gallery Panels and specified power accessories*	285	**$1,297.42**	**$369,764.70**	
15" Added Cable Tray	285	**$31.76**	**$9,051.60**	
Fence Benching Style Workstation *Including Gallery Panels and specified power accessories*	174	**$1,250.84**	**$217,645.71**	
15" Added Cable Tray	174	**$31.76**	**$5,526.24**	
Storage Item 1 (Soto Hook)	285	**$11.08**	**$3,157.80**	
Storage Item 2 (Revi Undermount)	174	**$179.72**	**$31,271.28**	
(Revi Undermount Shelf)	174	**$14.17**	**$2,465.58**	
(Revi Undermount Hook)	174	**$9.60**	**$1,670.40**	
Storage Item 3 (Mobile Ped)	285	**$225.49**	**$64,264.65**	
PRIVATE OFFICE -	***Quantity***	***AVERAGE Cost/Unit***	***ESTIMATED Total Cost***	
Height Adjustable Table	58	**$545.34**	**$31,629.72**	
15" Added Cable Tray	58	**$31.76**	**$1,842.08**	
Lateral Storage Item	0	**$587.25**	**$0.00**	Hold for next order; will add additional options and pricing
Coat Rack	0	**$306.80**	**$0.00**	Hold for future order
Wall Coat Hook	0	**$39.58**	**$0.00**	Hold for consideration
Meeting Table Opt #1	58	**$374.26**	**$21,707.08**	
TASK CHAIRS* *PRICED IF AWARDED WITH SYSTEMS & OFFICE FURNITURE	***Quantity***	***AVERAGE Cost/Unit***	***ESTIMATED Total Cost***	
Task Chair Option 1 (Amia Air)	0	**$383.31**	**$0.00**	Hold for decisions
Task Chair Option 2 (Series 2)	0	**$376.92**	**$0.00**	Hold for decisions
Task Chair Option 3 (Gesture)	0	**$663.92**	**$0.00**	Hold for decisions
PRIVATE OFFICE GUEST CHAIRS	***Quantity***	***AVERAGE Cost/Unit***	***ESTIMATED Total Cost***	
Guest Chair Option 1 (Move)	0	**$205.20**	**$0.00**	
Guest Chair Option 2 (AMQ Tizu)Selection*	116	**$248.90**	**$28,872.40**	Does not qualify for rebate calculation
Guest Chair Option 3 (Reply)	0	**$292.68**	**$0.00**	

*NOTE: Quantities on drawings are captured for reference and bid pricing and leveling. Final item count may vary slightly based on final drawings and JEA selections and is anticipated to be less than a 5% change to the overall presented totals.

Complete Chart Information For Height Adjustable Tables:

Height RANGE (Max & Min)	****Distributed Weight Capacity***	***Max Lifting Capacity ****	***Adjustment Rate/Speed***	***Warranty (Type and Years)***
22" to 49"	250 lb	196 lb	1 3/10" per second	Limited Lifetime 12 Year No Labor Fee

****NOTE: When calculating Lift Capacity subtract the weight of the worksurface***

The fence and bench unit prices differ from the original bid as the desktop power units bid and included were replaced by an alternate item

Furniture PROPOSAL WORKBOOK
Dealer to complete Shaded Areas -

As described in Solicitation 1.4.1.1. prices shall include all profit, taxes, benefits and all other overhead items. Delivery/freight number is an estimate as described below.

ACCESSORIES	***Quantity***	***AVERAGE Cost/Unit***	***ESTIMATED Total Cost***	
New Desktop power with wireless charging	517	**$398.96**	**$206,262.32**	
Desktop power BID	0	**$276.92**	**$0.00**	
Monitor Arm (BID Arm)	0	**$227.08**	**$0.00**	
New Steelcase CF Intro Dual Monitor Arm (32" Monitor)	0	**$259.29**	**$0.00**	
ESI SENAEX2-MS	517	**$260.40**	**$134,626.80**	Does not qualify for rebate calculation
ESI Wireless Power Hub	0	**$94.50**	**$0.00**	
Flex Dock	0	**$0.00**	**$0.00**	
Office Markerboard	58	**$140.90**	**$8,172.20**	
Task Light (BID Light) LED Linear	0	**$176.48**	**$0.00**	
Task Light Dash Mini	0	**$206.68**	**$0.00**	Hold for future order
INSTALLATION - LABOR			***ESTIMATE***	
SYSTEMS FURNITURE, PRIVATE OFFICES, TASK & GUEST CHAIRS - **PRICE FOR PACKAGE 1*		**TBD (Options)**	**$189,171.39**	Adjusted for items selected
INSTALLATION - DELIVERY/FREIGHT*			***ESTIMATE***	
DELIVERY/FREIGHT IS AN ESTIMATE FOR BUDGET PURPOSES TO ESTABLISH AN ALLOWANCE ASSUME FULL PACKAGE 1 AWARDED- **PRICE FOR PACKAGE 1 Will adjust based on quantities and rates at time of shipping*			**$0.00**	Shipping was included in pricing based on proposal response
			1,327,101.95	Phase 1 order total
REBATE PROGRAM			***ESTIMATE***	
In the event JEA purchases reach a minimum of $1.4M Customer Sell Qualified Steelcase Product, Steelcase will issue a 3% rebate come time of project completion. Qualified Steelcase Product includes Steelcase (Arch Solutions excluded), Worktools, Coalesse, West Elm Orangebox and Partner branded products. All other products are excluded from rebate consideration			**$55,000.00+**	Rebate applies to cumulative amount of first and future orders calculated at the end of orders on qualifying items

Formal Bid and Award System

Award #9 November 18, 2021

Type of Award Request: BID (IFB)
Request #: 249
Requestor Name: Sencer, Justin
Requestor Phone: (904) 665-6826
Project Title: Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services
Project Number: Various
Project Location: JEA
Funds: Capital, O&M
Budget Estimate: $7,500,000.00
Scope of Work:

The Work performed under this Contract shall include providing the personnel, equipment, and materials to complete assigned tasks including, but not limited to, the following:

- Water Main replacements and/or extensions (including the addition of valves, fire hydrants, or service modifications necessary to bring existing systems into compliance with current standards)
- Water, Wastewater, and/or Reclaimed Piping repairs, replacements, and/or extensions (including valves and other appurtenances as well as piping within vacuum and low-pressure systems)
- Manhole installation & repairs (excluding liners/linings)
- Service connections (residential and commercial)
- Large meter installations

JEA IFB/RFP/State/City/GSA#: 1410399647
Purchasing Agent: Kruck, Dan
Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
CALLAWAY CONTRACTING, INC.	Jeremy Isbell	jeremy@callawaycontracting.com	10950 New Berlin Rd, Jacksonville, FL 32226	(904) 751-8944	$2,500,000.00
TB LANDMARK CONSTRUCTION, INC.	Martin Adams	estimating@tblandmark.com	11220 New Berlin Rd, Jacksonville, FL 32226	(904) 751-1016	$2,000,000.00
J.B. COXWELL CONTRACTING, INC.	Garland Chink	estimating@jbcoxwell.com	6741 Lloyd Road West, Jacksonville, FL 32254	(904) 786-1120	$2,000,000.00

PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.	Kimberly Bryan	kbryan@petticoatschmitt.com	6380 Philips Hwy, Jacksonville, FL 32216	(904) 751-0888	$1,000,000.00

Amount for entire term of Contract/PO: $7,500,000.00
Award Amount for remainder of this FY: $2,350,000.00
Length of Contract/PO Term: Three (3) Years w/ Two - 1 Yr. Renewals
Begin Date: 12/15/2021
End Date: 12/14/2024
Renewal Options: Two - 1 Yr. Renewals
JSEB Requirement: N/A
Comments on JSEB Requirements:
Each task order under this contract will be reviewed and given a JSEB requirement prior to it being issued to the contractor.

BIDDERS:

Name	Amount
CALLAWAY CONTRACTING, INC.	$3,585,506.88
TB LANDMARK CONSTRUCTION, INC.	$3,978,200.00
J.B. COXWELL CONTRACTING, INC.	$3,994,264.81
PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.	$4,064,356.80
DB CIVIL CONSTRUCTION, LLC	$4,188,843.20
THE KENTON GROUP, INC.	$4,266,630.00

Background/Recommendations:
Advertised on 09/03/2021. Nine (9) prime contractors attended the mandatory pre-bid meeting held on 09/15/2021. At Bid opening on 10/05/2021, JEA received six (6) Bids. Calloway Contracting, Inc., TB Landmark Construction, Inc., J.B Coxwell Contracting, Inc., and Petticoat-Schmitt Civil Contractors, Inc. are the lowest responsive and responsible Bidders. A copy of the Bid Forms and Workbooks are attached for reference.

JEA anticipates the need for contracts with four firms under this solicitation in order to supplement JEA W/WW crews performing both scheduled construction and emergency line work. These are continuing contracts for construction/repair services, so task orders will be issued for each project as the jobs become available. Each task order will be billed using the unit prices in the attached Bid Workbooks. The unit prices are fixed for the three year term of the contract. If JEA issues a renewal, a CPI increase may be authorized at that time. JEA is awarding to the estimated projected budget for construction services during the contract term.

1410403646– Request approval to award contracts to Calloway Contracting, Inc. ($2,500,000.00), TB Landmark Construction, Inc. ($2,000,000.00), J.B Coxwell Contracting, Inc. ($2,000,000.00), and Petticoat-Schmitt Civil Contractors, Inc. ($1,000,000.00) for construction services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services in the amount of $7,500,000.00, subject to the availability of lawfully appropriated funds.

Director: Scheel, Jackie B. - Dir W/WW Reuse Delivery & Collection

VP: Vu, Hai X. - VP Water Wastewater Systems

APPROVALS:

_____

Chairman, Awards Committee **Date**

_____

Budget Representative **Date**

Appendix B - Bid Forms
1410399647 Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services

Submit the Bid electronically as described in section 1.1.3 of the Solicitation.

Company Name: Callaway Contracting, Inc.

Company's Address: 10950 New Berlin Rd; Jacksonville, FL 32226

License Number: CGC009273 / CUC050627

Phone Number: 904-751-8944 FAX No: 904-751-0940 Email Address: jeremy@callawaycontracting.com

BID SECURITY REQUIREMENTS
- ☐ None required
- ☒ Certified Check or Bond (Five Percent (5%)

TERM OF CONTRACT
- ☐ One Time Purchase
- ☒ Annual Requirements – Three Years
- ☐ Other, Specify - Project Completion

SAMPLE REQUIREMENTS
- ☒ None required
- ☐ Samples required prior to Bid Opening
- ☐ Samples may be required subsequent to Bid Opening

SECTION 255.05, FLORIDA STATUTES CONTRACT BOND
- ☐ None required
- ☒ Bond required 100% of Bid Award

QUANTITIES
- ☐ Quantities indicated are exacting
- ☒ Quantities indicated reflect the approximate quantities to be purchased Throughout the Contract period and are subject to fluctuation in accordance with actual requirements.

INSURANCE REQUIREMENTS

Insurance required

PAYMENT DISCOUNTS	
☐ 1% 20, net 30 ☐ 2% 10, net 30 ☐ Other _____ ☒ None Offered	

ENTER YOUR BID FOR SOLICITATION 1410399647	TOTAL BID PRICE
Total Bid Price for the Project (enter total from cell G53 in the Bid Workbook)	$ 3,585,506.88

☒ **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 1

Handwritten Signature of Authorized Officer of Company or Agent — Date: 10/5/21

Jeremy Isbell - Vice President
Printed Name and Title

Appendix B - Bid Workbook

1410399647 Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services

(Enter data in the yellow cells only)

Callaway Contracting, Inc.		One year estimated hours		Hourly Labor Rates		Extended Price
		Straight Time	Overtime	Straight Time	Overtime	
2.01	Field Superintendent	400	50	$ 85.00	$ 128.00	$40,400.00
2.02	Pipefitter Foreman	2000	200	$ 60.00	$ 90.00	$138,000.00
2.03	Pipefitter	2000	200	$ 33.00	$ 50.00	$76,000.00
2.04	Pipefitter Helper	2000	200	$ 30.00	$ 45.00	$69,000.00
2.05	Laborer	2000	200	$ 26.00	$ 39.00	$59,800.00
2.06	Equipment Operator	2000	200	$ 33.00	$ 50.00	$76,000.00
2.07	Truck Driver	2000	200	$ 30.00	$ 45.00	$69,000.00
2.08	Worksite Traffic Supervisor	1000	100	$ 30.00	$ 45.00	$34,500.00
2.09	Flagger	1000	100	$ 26.00	$ 39.00	$29,900.00
(A) Subtotal Labor						**$592,600.00**

Equipment Operating Costs		**One year estimated days**	**Daily Rate (24 hour day for use any day of the week Sun - Sat) Includes Fuel**			**Extended Price**
3.01	Generator, 16 KW	35	$ 160.00			$5,600.00
3.02	Generator, 5.5 KW	35	$ 50.00			$1,750.00
3.03	Light Tower	35	$ 150.00			$5,250.00
3.04	Loader - Wheel	250	$ 500.00			$125,000.00
3.05	Pump - Trash Pump	250	$ 50.00			$12,500.00
3.06	Pump, Diaphragm	250	$ 150.00			$37,500.00
3.07	Air Compressor	135	$ 75.00			$10,125.00
3.08	Compactor, Vibratory, Drum	35	$ 250.00			$8,750.00
3.09	Trailer, 20-Ton	250	$ 100.00			$25,000.00

	Equipment Operating Costs	One year estimated days	Daily Rate (8 hour day for use any day of the week Sun - Sat) Includes Fuel	Mob or Demob Fee (one time fee for each mobilization or demob)	Overtime (hrly rate, per additional hour during the same day over 8 hours)	Extended Price
3.10	Backhoe - Wheel	250	$ 350.00	no mob allowed	$ 150.00	$87,650.00
3.11	Excavator - up to 20t, Hydraulic, 0.5 CY	250	$ 475.00	no mob allowed	$ 175.00	$118,925.00
3.12	Excavator, over 20t, Hydraulic, 1.0 CY	250	$ 550.00	$ 600.00	$ 200.00	$138,300.00
3.13	Excavator, over 20t Hydraulic, 1.5 CY	35	$ 650.00	$ 750.00	$ 250.00	$23,750.00
3.14	Excavator, over 20t Hydraulic, 2.5 CY	35	$ 850.00	$ 900.00	$ 325.00	$30,975.00
3.15	Skid Steer	250	$ 450.00	no mob allowed	$ 175.00	$112,675.00
3.16	Sweeper, Pavement	35	$ 325.00	no mob allowed	$ 125.00	$11,500.00
3.17	Truck, Dump 12 CY	250	$ 550.00	no mob allowed	$ 225.00	$137,725.00
3.18	Truck, Dump 8 CY	250	$ 325.00	no mob allowed	$ 150.00	$81,400.00
3.19	Truck, Flatbed	250	$ 325.00	no mob allowed	$ 150.00	$81,400.00
3.20	Truck, Pickup	250	$ 200.00	no mob allowed	$ 100.00	$50,100.00
3.21	Truck, Service	250	$ 200.00	no mob allowed	$ 100.00	$50,100.00
3.22	Truck, Water, 4000 gal.	20	$ 750.00	no mob allowed	$ 400.00	$15,400.00
3.23	Van-Cargo	250	$ 100.00	no mob allowed	$ 50.00	$25,050.00
(B) Subtotal Equipment Cost						**$1,196,425.00**
(F) Overhead Markup Percentage (applied to both Labor and Equipment rates in section A and B above)						15.00%
(G) Profit Markup Percentage (applied to both Labor and Equipment rates in section A and B above)						12.50%
Subtotal Labor, Equipment, Overhead and Profit						**$ 2,281,006.88**
				% Markup		
(C) Estimated Material		$1,000,000		7.50%		**$ 1,075,000.00**
(D) Estimated Subcontracts		$100,000		35.00%		**$ 135,000.00**
(E) Estimated Equipment Rental		$70,000		35.00%		**$ 94,500.00**

Equipment Operating Costs	One year estimated days	Daily Rate (8 hour day for use any day of the week Sun - Sat) Includes Fuel	Mob or Demob Fee (one time fee for each mobilization or demob)	Overtime (hrly rate, per additional hour during the same day over 8 hours)	Extended Price
Total One-Year Bid Price (Enter this amount on the Bid Form)					**$ 3,585,506.88**

Appendix B - Bid Forms
1410399647 Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services

Submit the Bid electronically as described in section 1.1.3 of the Solicitation.

Company Name: T B Landmark Construction, Inc.

Company's Address: 11220 New Berlin Road, Jacksonville, FL 32226

License Number: CGC060694/ CUC057226

Phone Number: (904)751-1016 FAX No: (904)751-4125 Email Address: estimating@tblandmark.com

BID SECURITY REQUIREMENTS
- ☐ None required
- ☒ Certified Check or Bond (Five Percent (5%)

TERM OF CONTRACT
- ☐ One Time Purchase
- ☒ Annual Requirements – Three Years
- ☐ Other, Specify - Project Completion

SAMPLE REQUIREMENTS
- ☒ None required
- ☐ Samples required prior to Bid Opening
- ☐ Samples may be required subsequent to Bid Opening

SECTION 255.05, FLORIDA STATUTES CONTRACT BOND
- ☐ None required
- ☒ Bond required 100% of Bid Award

QUANTITIES
- ☐ Quantities indicated are exacting
- ☒ Quantities indicated reflect the approximate quantities to be purchased Throughout the Contract period and are subject to fluctuation in accordance with actual requirements.

INSURANCE REQUIREMENTS

Insurance required

PAYMENT DISCOUNTS	
☐ 1% 20, net 30 ☐ 2% 10, net 30 ☐ Other _____ ☒ None Offered	

ENTER YOUR BID FOR SOLICITATION 1410399647	TOTAL BID PRICE
Total Bid Price for the Project (enter total from cell G53 in the Bid Workbook)	$ 3,978,200.00

☒ **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 1

Handwritten Signature of Authorized Officer of Company or Agent — Date: 10/5/2021

Martin Adams, General Manager
Printed Name and Title

Appendix B - Bid Workbook

1410399647 Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services

(Enter data in the yellow cells only)

	Bidder's Name Here	One year estimated hours		Hourly Labor Rates		Extended Price
		Straight Time	Overtime	Straight Time	Overtime	
2.01	Field Superintendent	400	50	$ 70.00	$ 105.00	$33,250.00
2.02	Pipefitter Foreman	2000	200	$ 55.50	$ 83.25	$127,650.00
2.03	Pipefitter	2000	200	$ 45.00	$ 67.50	$103,500.00
2.04	Pipefitter Helper	2000	200	$ 40.00	$ 60.00	$92,000.00
2.05	Laborer	2000	200	$ 36.00	$ 54.00	$82,800.00
2.06	Equipment Operator	2000	200	$ 45.00	$ 67.50	$103,500.00
2.07	Truck Driver	2000	200	$ 40.00	$ 60.00	$92,000.00
2.08	Worksite Traffic Supervisor	1000	100	$ 36.00	$ 54.00	$41,400.00
2.09	Flagger	1000	100	$ 26.50	$ 39.75	$30,475.00
(A) Subtotal Labor						**$706,575.00**

	Equipment Operating Costs	One year estimated days	Daily Rate (24 hour day for use any day of the week Sun - Sat) Includes Fuel			Extended Price
3.01	Generator, 16 KW	35	$ 200.00			$7,000.00
3.02	Generator, 5.5 KW	35	$ 170.00			$5,950.00
3.03	Light Tower	35	$ 155.00			$5,425.00
3.04	Loader - Wheel	250	$ 375.00			$93,750.00
3.05	Pump - Trash Pump	250	$ 180.00			$45,000.00
3.06	Pump, Diaphragm	250	$ 350.00			$87,500.00
3.07	Air Compressor	135	$ 125.00			$16,875.00
3.08	Compactor, Vibratory, Drum	35	$ 310.00			$10,850.00
3.09	Trailer, 20-Ton	250	$ 150.00			$37,500.00

	Equipment Operating Costs	One year estimated days	Daily Rate (8 hour day for use any day of the week Sun - Sat) Includes Fuel	Mob or Demob Fee (one time fee for each mobilization or demob)	Overtime (hrly rate, per additional hour during the same day over 8 hours)	Extended Price
3.10	Backhoe - Wheel	250	$ 350.00	no mob allowed	$ 30.00	$87,530.00
3.11	Excavator - up to 20t, Hydraulic, 0.5 CY	250	$ 430.00	no mob allowed	$ 40.00	$107,540.00
3.12	Excavator, over 20t, Hydraulic, 1.0 CY	250	$ 550.00	$ 400.00	$ 45.00	$137,945.00
3.13	Excavator, over 20t Hydraulic, 1.5 CY	35	$ 650.00	$ 400.00	$ 50.00	$23,200.00
3.14	Excavator, over 20t Hydraulic, 2.5 CY	35	$ 750.00	$ 400.00	$ 55.00	$26,705.00
3.15	Skid Steer	250	$ 350.00	no mob allowed	$ 30.00	$87,530.00
3.16	Sweeper, Pavement	35	$ 150.00	no mob allowed	$ 12.00	$5,262.00
3.17	Truck, Dump 12 CY	250	$ 800.00	no mob allowed	$ 70.00	$200,070.00
3.18	Truck, Dump 8 CY	250	$ 600.00	no mob allowed	$ 60.00	$150,060.00
3.19	Truck, Flatbed	250	$ 350.00	no mob allowed	$ 35.00	$87,535.00
3.20	Truck, Pickup	250	$ 250.00	no mob allowed	$ 20.00	$62,520.00
3.21	Truck, Service	250	$ 350.00	no mob allowed	$ 30.00	$87,530.00
3.22	Truck, Water, 4000 gal.	20	$ 500.00	no mob allowed	$ 40.00	$10,040.00
3.23	Van-Cargo	250	$ 249.00	no mob allowed	$ 18.00	$62,268.00
(B) Subtotal Equipment Cost						**$1,445,585.00**

(F) Overhead Markup Percentage (applied to both Labor and Equipment rates in section A and B above)				15.00%
(G) Profit Markup Percentage (applied to both Labor and Equipment rates in section A and B above)				10.00%
Subtotal Labor, Equipment, Overhead and Profit				**$ 2,690,200.00**
		% Markup		
(C) Estimated Material	$1,000,000	10.00%		**$ 1,100,000.00**
(D) Estimated Subcontracts	$100,000	11.00%		**$ 111,000.00**
(E) Estimated Equipment Rental	$70,000	10.00%		**$ 77,000.00**
Total One-Year Bid Price (Enter this amount on the Bid Form)				**$ 3,978,200.00**

Appendix B - Bid Workbook

1410399647 Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services

(Enter data in the yellow cells only)

	Bidder's Name Here	One year estimated hours		Hourly Labor Rates		Extended Price
		Straight Time	Overtime	Straight Time	Overtime	
2.01	Field Superintendent	400	50	$ 70.00	$ 105.00	$33,250.00
2.02	Pipefitter Foreman	2000	200	$ 55.50	$ 83.25	$127,650.00
2.03	Pipefitter	2000	200	$ 45.00	$ 67.50	$103,500.00
2.04	Pipefitter Helper	2000	200	$ 40.00	$ 60.00	$92,000.00
2.05	Laborer	2000	200	$ 36.00	$ 54.00	$82,800.00
2.06	Equipment Operator	2000	200	$ 45.00	$ 67.50	$103,500.00
2.07	Truck Driver	2000	200	$ 40.00	$ 60.00	$92,000.00
2.08	Worksite Traffic Supervisor	1000	100	$ 36.00	$ 54.00	$41,400.00
2.09	Flagger	1000	100	$ 26.50	$ 39.75	$30,475.00
(A) Subtotal Labor						**$706,575.00**

	Equipment Operating Costs	One year estimated days	Daily Rate (24 hour day for use any day of the week Sun - Sat) Includes Fuel			Extended Price
3.01	Generator, 16 KW	35	$ 200.00			$7,000.00
3.02	Generator, 5.5 KW	35	$ 170.00			$5,950.00
3.03	Light Tower	35	$ 155.00			$5,425.00
3.04	Loader - Wheel	250	$ 375.00			$93,750.00
3.05	Pump - Trash Pump	250	$ 180.00			$45,000.00
3.06	Pump, Diaphragm	250	$ 350.00			$87,500.00
3.07	Air Compressor	135	$ 125.00			$16,875.00
3.08	Compactor, Vibratory, Drum	35	$ 310.00			$10,850.00
3.09	Trailer, 20-Ton	250	$ 150.00			$37,500.00

	Equipment Operating Costs	One year estimated days	Daily Rate (8 hour day for use any day of the week Sun - Sat) Includes Fuel	Mob or Demob Fee (one time fee for each mobilization or demob)	Overtime (hrly rate, per additional hour during the same day over 8 hours)	Extended Price
3.10	Backhoe - Wheel	250	$ 350.00	no mob allowed	$ 30.00	$87,530.00
3.11	Excavator - up to 20t, Hydraulic, 0.5 CY	250	$ 430.00	no mob allowed	$ 40.00	$107,540.00
3.12	Excavator, over 20t, Hydraulic, 1.0 CY	250	$ 550.00	$ 400.00	$ 45.00	$137,945.00
3.13	Excavator, over 20t Hydraulic, 1.5 CY	35	$ 650.00	$ 400.00	$ 50.00	$23,200.00
3.14	Excavator, over 20t Hydraulic, 2.5 CY	35	$ 750.00	$ 400.00	$ 55.00	$26,705.00
3.15	Skid Steer	250	$ 350.00	no mob allowed	$ 30.00	$87,530.00
3.16	Sweeper, Pavement	35	$ 150.00	no mob allowed	$ 12.00	$5,262.00
3.17	Truck, Dump 12 CY	250	$ 800.00	no mob allowed	$ 70.00	$200,070.00
3.18	Truck, Dump 8 CY	250	$ 600.00	no mob allowed	$ 60.00	$150,060.00
3.19	Truck, Flatbed	250	$ 350.00	no mob allowed	$ 35.00	$87,535.00
3.20	Truck, Pickup	250	$ 250.00	no mob allowed	$ 20.00	$62,520.00
3.21	Truck, Service	250	$ 350.00	no mob allowed	$ 30.00	$87,530.00
3.22	Truck, Water, 4000 gal.	20	$ 500.00	no mob allowed	$ 40.00	$10,040.00
3.23	Van-Cargo	250	$ 249.00	no mob allowed	$ 18.00	$62,268.00
(B) Subtotal Equipment Cost						**$1,445,585.00**

(F) Overhead Markup Percentage (applied to both Labor and Equipment rates in section A and B above)						15.00%
(G) Profit Markup Percentage (applied to both Labor and Equipment rates in section A and B above)						10.00%
Subtotal Labor, Equipment, Overhead and Profit						**$ 2,690,200.00**
				% Markup		
(C) Estimated Material		$1,000,000		10.00%		**$ 1,100,000.00**
(D) Estimated Subcontracts		$100,000		11.00%		**$ 111,000.00**
(E) Estimated Equipment Rental		$70,000		10.00%		**$ 77,000.00**
Total One-Year Bid Price (Enter this amount on the Bid Form)						**$ 3,978,200.00**

Appendix B - Bid Forms
1410399647 Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services

Submit the Bid electronically as described in section 1.1.3 of the Solicitation.

Company Name: J. B. Coxwell Contracting, Inc.

Company's Address: 6741 Lloyd Road West, Jacksonville, FL 32254

License Number: CUC053986

Phone Number: 904-786-1120 FAX No: 904-783-2970 Email Address: Estimating@jbcoxwell.com

BID SECURITY REQUIREMENTS
- ☐ None required
- ☒ Certified Check or Bond (Five Percent (5%)

TERM OF CONTRACT
- ☐ One Time Purchase
- ☒ Annual Requirements – Three Years
- ☐ Other, Specify - Project Completion

SAMPLE REQUIREMENTS
- ☒ None required
- ☐ Samples required prior to Bid Opening
- ☐ Samples may be required subsequent to Bid Opening

SECTION 255.05, FLORIDA STATUTES CONTRACT BOND
- ☐ None required
- ☒ Bond required 100% of Bid Award

QUANTITIES
- ☐ Quantities indicated are exacting
- ☒ Quantities indicated reflect the approximate quantities to be purchased Throughout the Contract period and are subject to fluctuation in accordance with actual requirements.

INSURANCE REQUIREMENTS

Insurance required

PAYMENT DISCOUNTS
☐ 1% 20, net 30
☐ 2% 10, net 30
☐ Other _____
☒ None Offered

ENTER YOUR BID FOR SOLICITATION 1410399647	TOTAL BID PRICE
Total Bid Price for the Project (enter total from cell G53 in the Bid Workbook)	$ 3,994,264.81

☒ **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 1

Handwritten Signature of Authorized Officer of Company or Agent — Date: 10/05/21

Garland F. Chick, Jr. - Vice President
Printed Name and Title

Appendix B - Bid Workbook

1410399647 Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services

(Enter data in the yellow cells only)

J. B. Coxwell Contracting, Inc.		One year estimated hours		Hourly Labor Rates		Extended Price
		Straight Time	Overtime	Straight Time	Overtime	
2.01	Field Superintendent	400	50	$ 79.17	$ 79.17	$35,626.50
2.02	Pipefitter Foreman	2000	200	$ 59.79	$ 59.79	$131,538.00
2.03	Pipefitter	2000	200	$ 30.70	$ 46.05	$70,610.00
2.04	Pipefitter Helper	2000	200	$ 25.86	$ 38.78	$59,476.00
2.05	Laborer	2000	200	$ 24.24	$ 36.35	$55,750.00
2.06	Equipment Operator	2000	200	$ 35.55	$ 53.33	$81,766.00
2.07	Truck Driver	2000	200	$ 29.08	$ 43.62	$66,884.00
2.08	Worksite Traffic Supervisor	1000	100	$ 79.17	$ 79.17	$87,087.00
2.09	Flagger	1000	100	$ 24.24	$ 36.35	$27,875.00
(A) Subtotal Labor						**$616,612.50**

Equipment Operating Costs		**One year estimated days**	**Daily Rate (24 hour day for use any day of the week Sun - Sat) Includes Fuel**			**Extended Price**
3.01	Generator, 16 KW	35	$ 233.51			$8,172.85
3.02	Generator, 5.5 KW	35	$ 118.18			$4,136.30
3.03	Light Tower	35	$ 156.00			$5,460.00
3.04	Loader - Wheel	250	$ 883.00			$220,750.00
3.05	Pump - Trash Pump	250	$ 155.00			$38,750.00
3.06	Pump, Diaphragm	250	$ 260.00			$65,000.00
3.07	Air Compressor	135	$ 145.00			$19,575.00
3.08	Compactor, Vibratory, Drum	35	$ 185.00			$6,475.00
3.09	Trailer, 20-Ton	250	$ 140.00			$35,000.00

Equipment Operating Costs		**One year estimated days**	**Daily Rate (8 hour day for use any day of the week Sun - Sat) Includes Fuel**	**Mob or Demob Fee (one time fee for each mobilization or demob)**	**Overtime** (hrly rate, per additional hour during the same day over 8 hours)	**Extended Price**
3.10	Backhoe - Wheel	250	$ 356.00	no mob allowed	$ -	$89,000.00
3.11	Excavator - up to 20t, Hydraulic, 0.5 CY	250	$ 421.00	no mob allowed	$ -	$105,250.00
3.12	Excavator, over 20t, Hydraulic, 1.0 CY	250	$ 625.00	$ 600.00	$ -	$156,850.00
3.13	Excavator, over 20t Hydraulic, 1.5 CY	35	$ 1,455.00	$ 600.00	$ -	$51,525.00
3.14	Excavator, over 20t Hydraulic, 2.5 CY	35	$ 1,503.00	$ 1,200.00	$ -	$53,805.00
3.15	Skid Steer	250	$ 383.00	no mob allowed	$ -	$95,750.00
3.16	Sweeper, Pavement	35	$ 270.00	no mob allowed	$ -	$9,450.00
3.17	Truck, Dump 12 CY	250	$ 665.00	no mob allowed	$ -	$166,250.00
3.18	Truck, Dump 8 CY	250	$ 365.00	no mob allowed	$ -	$91,250.00
3.19	Truck, Flatbed	250	$ 225.00	no mob allowed	$ -	$56,250.00
3.20	Truck, Pickup	250	$ 310.00	no mob allowed	$ -	$77,500.00
3.21	Truck, Service	250	$ 310.00	no mob allowed	$ -	$77,500.00
3.22	Truck, Water, 4000 gal.	20	$ 465.00	no mob allowed	$ -	$9,300.00
3.23	Van-Cargo	250	$ 900.00	no mob allowed	$ -	$225,000.00
(B) Subtotal Equipment Cost						**$1,667,999.15**

(F) Overhead Markup Percentage (applied to both Labor and Equipment rates in section A and B above)						8.50%
(G) Profit Markup Percentage (applied to both Labor and Equipment rates in section A and B above)						10.00%
Subtotal Labor, Equipment, Overhead and Profit						**$ 2,707,264.81**
				% Markup		
(C) Estimated Material		$1,000,000		10.00%		**$ 1,100,000.00**
(D) Estimated Subcontracts		$100,000		10.00%		**$ 110,000.00**
(E) Estimated Equipment Rental		$70,000		10.00%		**$ 77,000.00**
Total One-Year Bid Price (Enter this amount on the Bid Form)						**$ 3,994,264.81**

Appendix B - Bid Forms
1410399647 Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services

Submit the Bid electronically as described in section 1.1.3 of the Solicitation.

Company Name: Petticoat-Schmitt Civil Contractors, Inc.

Company's Address: 6380 Philips Hwy., Jacksonville, FL 32216

License Number: CGC #057651; CUC #057440

Phone Number: (904) 751-0888 FAX No: (904) 751-0988 Email Address: kbryan@petticoatschmitt.com

BID SECURITY REQUIREMENTS
- ☐ None required
- ☒ Certified Check or Bond (Five Percent (5%)

TERM OF CONTRACT
- ☐ One Time Purchase
- ☒ Annual Requirements – Three Years
- ☐ Other, Specify - Project Completion

SAMPLE REQUIREMENTS
- ☒ None required
- ☐ Samples required prior to Bid Opening
- ☐ Samples may be required subsequent to Bid Opening

SECTION 255.05, FLORIDA STATUTES CONTRACT BOND
- ☐ None required
- ☒ Bond required 100% of Bid Award

QUANTITIES
- ☐ Quantities indicated are exacting
- ☒ Quantities indicated reflect the approximate quantities to be purchased Throughout the Contract period and are subject to fluctuation in accordance with actual requirements.

INSURANCE REQUIREMENTS

Insurance required

PAYMENT DISCOUNTS	
☐ 1% 20, net 30 ☐ 2% 10, net 30 ☐ Other _____ ☒ None Offered	

ENTER YOUR BID FOR SOLICITATION 1410399647	TOTAL BID PRICE
Total Bid Price for the Project (enter total from cell G53 in the Bid Workbook)	$ 4,064,356.80

☒ **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 1

Kimberly S Bryan — 10/5/21
Handwritten Signature of Authorized Officer of Company or Agent — Date

Kimberly S. Bryan, Vice President
Printed Name and Title

****CONFIDENTIAL**** in accordance with Florida Statute 119.0713(4)(a)5

Appendix B - Bid Workbook

1410399647 Construction Services for Underground Water, Wastewater and Reuse Grid Repair and Installation Services

(Enter data in the yellow cells only)

Petticoat-Schmitt Civil Contractors		One year estimated hours		Hourly Labor Rates		Extended Price
		Straight Time	Overtime	Straight Time	Overtime	
2.01	Field Superintendent	400	50	$ 92.00	$ 129.00	$43,250.00
2.02	Pipefitter Foreman	2000	200	$ 73.00	$ 102.00	$166,400.00
2.03	Pipefitter	2000	200	$ 46.00	$ 64.00	$104,800.00
2.04	Pipefitter Helper	2000	200	$ 34.00	$ 47.00	$77,400.00
2.05	Laborer	2000	200	$ 34.00	$ 47.00	$77,400.00
2.06	Equipment Operator	2000	200	$ 47.00	$ 65.00	$107,000.00
2.07	Truck Driver	2000	200	$ 39.00	$ 54.00	$88,800.00
2.08	Worksite Traffic Supervisor	1000	100	$ 62.00	$ 87.00	$70,700.00
2.09	Flagger	1000	100	$ 30.00	$ 42.00	$34,200.00
(A) Subtotal Labor						**$769,950.00**

Equipment Operating Costs		**One year estimated days**	**Daily Rate (24 hour day for use any day of the week Sun - Sat) Includes Fuel**			**Extended Price**
3.01	Generator, 16 KW	35	$ 605.00			$21,175.00
3.02	Generator, 5.5 KW	35	$ 55.00			$1,925.00
3.03	Light Tower	35	$ 178.00			$6,230.00
3.04	Loader - Wheel	250	$ 488.00			$122,000.00
3.05	Pump - Trash Pump	250	$ 222.00			$55,500.00
3.06	Pump, Diaphragm	250	$ 222.00			$55,500.00
3.07	Air Compressor	135	$ 277.00			$37,395.00
3.08	Compactor, Vibratory, Drum	35	$ 577.00			$20,195.00
3.09	Trailer, 20-Ton	250	$ 160.00			$40,000.00

Equipment Operating Costs		**One year estimated days**	**Daily Rate (8 hour day for use any day of the week Sun - Sat) Includes Fuel**	**Mob or Demob Fee (one time fee for each mobilization or demob)**	**Overtime (hrly rate, per additional hour during the same day over 8 hours)**	**Extended Price**
3.10	Backhoe - Wheel	250	$ 444.00	no mob allowed	$ 56.00	$111,056.00
3.11	Excavator - up to 20t, Hydraulic, 0.5 CY	250	$ 488.00	no mob allowed	$ 61.00	$122,061.00
3.12	Excavator, over 20t, Hydraulic, 1.0 CY	250	$ 622.00	$ 600.00	$ 78.00	$156,178.00
3.13	Excavator, over 20t Hydraulic, 1.5 CY	35	$ 667.00	$ 600.00	$ 83.00	$24,028.00
3.14	Excavator, over 20t Hydraulic, 2.5 CY	35	$ 888.00	$ 800.00	$ 111.00	$31,991.00
3.15	Skid Steer	250	$ 388.00	no mob allowed	$ 49.00	$97,049.00
3.16	Sweeper, Pavement	35	$ 444.00	no mob allowed	$ 56.00	$15,596.00
3.17	Truck, Dump 12 CY	250	$ 710.00	no mob allowed	$ 89.00	$177,589.00
3.18	Truck, Dump 8 CY	250	$ 710.00	no mob allowed	$ 89.00	$177,589.00
3.19	Truck, Flatbed	250	$ 577.00	no mob allowed	$ 72.00	$144,322.00
3.20	Truck, Pickup	250	$ 111.00	no mob allowed	$ 14.00	$27,764.00
3.21	Truck, Service	250	$ 155.00	no mob allowed	$ 19.00	$38,769.00
3.22	Truck, Water, 4000 gal.	20	$ 799.00	no mob allowed	$ 100.00	$16,080.00
3.23	Van-Cargo	250	$ 178.00	no mob allowed	$ 22.00	$44,522.00
(B) Subtotal Equipment Cost						**$1,544,514.00**

(F) Overhead Markup Percentage (applied to both Labor and Equipment rates in section A and B above)				10.00%
(G) Profit Markup Percentage (applied to both Labor and Equipment rates in section A and B above)				10.00%
Subtotal Labor, Equipment, Overhead and Profit				**$ 2,777,356.80**
		% Markup		
(C) Estimated Material	$1,000,000	10.00%		**$ 1,100,000.00**
(D) Estimated Subcontracts	$100,000	10.00%		**$ 110,000.00**
(E) Estimated Equipment Rental	$70,000	10.00%		**$ 77,000.00**
Total One-Year Bid Price (Enter this amount on the Bid Form)				**$ 4,064,356.80**

Formal Bid and Award System

Award #10 November 18, 2021

Type of Award Request: SINGLE SOURCE
Requestor Name: Donovan, William T.
Requestor Phone: (904) 665-6321
Project Title: KGS GE Mark VI to Mark VIe Upgrades
Project Number: 066-43, 8007952
Project Location: JEA
Funds: CAPITAL
Budget Estimate: $2,266,309.00
Scope of Work:

This project is to fully migrate the current Kennedy Generating Station MarkVI to the MarkVIe system, move controls for the water wash skid from the old outdated GE Fanuc PLC into the Balance of Plant MarkVIe and perform a digital front end upgrade for the excitation controls from the EX2100 to the EX2100e along with HMI replacements. JEA's current Mark VI system is at the end of its service life and GE does not produce new spare parts anymore. The overall project is broken down into three major segments:

1.) Replacing the seven (7) Human Interfaces (HMI's). Current HMI's run Windows 10 and Cimplicity Graphical User Interface (GUI) software. All must be upgraded at the same time for interface. This scope of work includes upgrades to servers, HMI replacements, software engineering, a spare hard drive and installation and commissioning – Pricing w/ add-in options: $230,653.00
2.) Replace existing 2 - EX2000 exciters with 2 - EX2100e DFE w/ PSS exciters and replace the Innovation Series, 2 - LS2100 LCIs with 2 new LS2100e LCI's, which will be controlled with the new HMI's and UDH network, level 3 spares EX200, PSS Study, GOI, Level 3 Spares LS2100, 4 local keypads (EX/LCI) as well as engineering, training, installation and commissioning services – Price w/ add-in options - $624,460.00
3.) Mark VI to Mark VIe turbine, balance of plant, water wash controls upgrades for each KGS turbine (units 7 & 8) includes engineering, equipment, spare parts installation and commissioning – Price w/ add-in options - $1,411,196.00

JEA IFB/RFP/State/City/GSA#: N/A
Purchasing Agent: Lovgren, Rodney
Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
GENERAL ELECTRIC INTERNATIONAL	Shafiz Parvez	parvez.shafiz@ge.com	4200 Wildwood Pkwy Atlanta, GA 30339	(904) 665-6642	$2,266,309.00

Amount for Entire Term of Contract/PO: $2,266,309.00
Award Amount for Remainder of this FY: $1,556,513.30
Length of Contract / PO Term: Project Completion

Begin Date (mm/dd/yyyy): 11/30/2021
End Date (mm/dd/yyyy): 06/30/2023
JSEB Requirement: N/A - JSEBs were reviewed and no opportunities are available

Background/Recommendations:

This award is for JEA to upgrade the KGS Mark VI controls and EX2100 excitation controls for KGS Units 7 & 8. As with any technology, it eventually becomes obsolete. GE ceased normal production of the Mark VI platform in 2009 and stopped producing new parts in December 2018. GE ceased normal production of the EX2100 platform in 2011 and recently issued an information bulletin indicating that for the EX2100 they will stop producing new parts in March of 2021. Only repair parts are available at this time and sourcing these legacy components is getting more difficult. Spare parts are only available if GE still has the necessary components in stock to refurbish these old parts. If a part fails in our existing system and a replacement cannot be located, this could result in an extended outages.

JEA is awarding this work as single source pursuant to the JEA Purchasing Code section - .3-112 - (b) the Supplies or Services must be a certain type, brand, make or manufacturer due to the criticality of the item or compatibility within a JEA utility system, and such Supplies or Services may not be obtained from multiple sources such as distributors.

JEA has previously completed similar upgrades associated with Mark VI controls, excitation field equipment and HMI projects at NGS and Brandy Branch generating station. In general, the pricing for the overall scopes is reasonable when compared to NGS and BBGS upgrades. Since this equipment replacement upgrade is unlike a complete control replacement from another manufacturer, pricing cannot be compared; however, the cost of these upgrades are more economical than sourcing a whole controls system for a combustion turbine.

Request approval to award a contract to General Electric International for Mark VIe controls, HMI replacements and excitation controls upgrades in the amount of $2,266,309.00, subject to the availability of lawfully appropriated funds.

Manager:	Akrayi, Jamila R. - Mgr Project Management
Director:	Limbaugh, Margaret Z. - Dir Energy Project Management
Sr. Director:	Kipp, James R. - Sr Dir Generation
VP:	Erixton, Ricky D. - VP Electric Systems

APPROVALS:

_____

Chairman, Awards Committee **Date**

_____

Budget Representative **Date**

Certification of Single Source or Emergency Procurement

Please use this form to certify a Single Source or Emergency Procurement complies with the requirements of the JEA Procurement Code. The JEA Procurement Code defines a Single Source and Emergency Procurement as follows:

3-112 Single Source

A Contract may be awarded for Supplies or Services as a Single Source when, pursuant to the Operational Procedures, the Chief Procurement Officer determines that:

(a) there is only one justifiable source for the required Supplies or Services;

(b) the Supplies or Services must be a certain type, brand, make or manufacturer due to the criticality of the item or compatibility within a JEA utility system, and such Supplies or Services may not be obtained from multiple sources such as distributors;

(c) the Services are a follow-up of Services that may only be done efficiently and effectively by the Vendor that rendered the initial Services to JEA, provided the Procurement of the initial Services was competitive;

(d) at the conclusion of a Pilot Project under Section 3-118 of this Code, the Procurement of Supplies or Services tested during the Pilot Project, provided the Vendor was competitively selected for the Pilot Project.

3-113 Emergency Procurements

In the event of an Emergency, the Chief Procurement Officer may make or authorize an Emergency Procurement, provided that Emergency Procurements shall be made with as much competition as practicable under the circumstances. A written Determination of the basis for the Emergency and for the selection of the particular Vendor shall be included in the Procurement file.

For purposes of this Section 3-113, an "Emergency" means any one of the following:

(a) a reasonably unforeseen breakdown in machinery;

(b) an interruption in the delivery of an essential governmental service or the development of a circumstance causing a threatened curtailment, diminution, or termination of an essential service;

(c) the development of a dangerous condition causing an immediate danger to the public health, safety, or welfare or other substantial loss to JEA;

(d) an immediate danger of loss of public or private property;

(e) the opportunity to secure significant financial gain, to avoid delays to any Governmental Entity or avoid significant financial loss through immediate or timely action; or (f) a valid public emergency certified by the Chief Executive Officer.

Please provide the following information:

1. Vendor Name:

General Electric International, Inc.

2. Description of Services or Supplies provided by Vendor:

Supply equipment and labor to upgrade Kennedy Generating Station to the Mk VIe control system, EX2100e exciters, and LS2100e static starters. Upgrade HMI's at Kennedy, Brandy Branch and Greenland. Vendor is the OEM and is the only source for upgrading the existing equipment.

3. Certification:

I the undersigned certify that to the best of my knowledge, no JEA employee has, either directly or indirectly, a financial interest in this Single Source Emergency Procurement, and

I the undersigned certify that this procurement meets the requirements of a (choose one of the following):

☑ **Single Source Procurement**. Please state which subsection of Section 3-112 above applies to this Single Source Procurement: 3-112(b)

OR

☐ **Emergency Procurement** - Please state which subsection of Section 3-113 above applies to this Emergency Procurement:_____

Jamila Akrayi
Signature of JEA Business Unit Manager

11/10/21
Date

Jamila akrayi
Name of JEA Business Unit Manager

This certification shall be attached to the Purchase Order when it is routed for approval. A Single Source or Emergency Procurement shall be reported to the JEA Board in accordance with Section 1-110 of the JEA Procurement Code.

GE Power Services

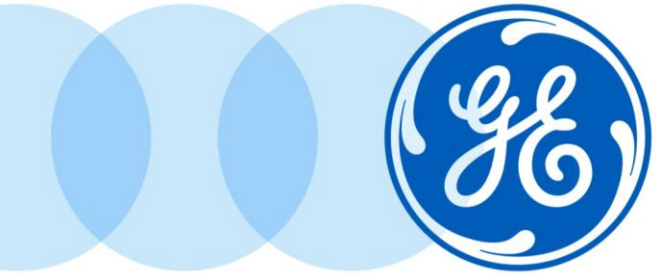
FIXED PRICE QUOTATION

FOR

JACKSONVILLE ELECTRIC AUTHORITY

FOR A

Mark VI to Mark Vie Control Migration



General Electric International, Inc.
Proposal: 1556577 Rev 1
Account Manager: David Duncan
Date: October 26, 2021

Proprietary Statement

This entire proposal and the correspondence and communications concerning this proposal (collectively the "Proposal") developed by General Electric International, Inc. (GEII or GE) is the property of GE.

This proposal and the information contained herein is furnished to JACKSONVILLE ELECTRIC AUTHORITY with the understanding that it will not, without the prior written consent of GE, be used for any purposes other than in connection with the evaluation of GE's proposal. In no event shall the proposal or any information contained therein be disclosed to any third party without the prior written consent of GE. The proposal contains information that is confidential and proprietary to GE, including, without limitation, information relating to design, price, payment terms, and warranty. JACKSONVILLE ELECTRIC AUTHORITY agrees to return the proposal and all copies or extracts thereof upon termination of GE's participation in the project or upon written request from GE.

This quotation document is proprietary to the GE and is furnished in confidence solely for use in considering the merits of the quotation and for no other direct or indirect use. By accepting this document from GE, the recipient agrees:

1. To use this document, and the information it contains, exclusively for the above stated purpose and to avoid use of the information for performance of the proposed work by the recipient or disclosure of the information to, and use by, competitors of GE on behalf of the recipient.

2. To avoid publication or other unrestricted disclosure of this document or the information it contains.

3. To make no copies of any part thereof without the prior written permission of GE.

4. To return this document when it is no longer needed for the purpose for which furnished, or upon request of GE.

Table of Contents

Executive Summary

General Electric International Inc. (GEII) is pleased to submit this Proposal to Jacksonville Electric Authority for the Mark VI to Mark Vie Control Migration at Jacksonville Electric Authority Kennedy site.

Overview

The innovative Mark VI to VIe Migration modernizes your existing digital control system to GE's most advanced control platform, the Mark VIe Controller. Each of the Mark VI controller cards/boards will be updated with form, fit and function circuit boards. GE migration solutions provide increased performance, flexibility and maintainability without impact to your current control system footprint, field wiring, or turbine devices. Our expertise stems from more than 50 years in control and turbine design and results in an unmatched knowledge of your entire system. With a migration from GEII, you'll experience a minimized outage timeline and support options throughout the life of your control system.

Equipment Overview

The opportunity consists of 2x GE Frame 7FA Gas Turbine Generators ("GTG") Controls and 2x Balance of Plant Control Systems. Below represents the equipment and existing controls;

a) Qty (2) GE Frame 7FA GTG (GSN): 297188 and 298749
   i. GE Mark VI TMR Turbine Control System (in PEECC and Building 11)
   ii. DLN 2.6
   iii. Dual Fuel
b) Qty (2) GE Balance of Plant Control System
   i. GE Mark VI Simplex BOP Control System (in PDC and Building 11)

As part of the upgrades and enhancements, the Seller is offering the following:

a) GE Mark VI to Mark VIe TMR Turbine Control System Migration
b) GE Mark VI to Mark VIe Simplex BOP Control System Migration
c) GE Mark VIe Water Wash Control Upgrade incorporated into Mark VI to Mark VIe BoP Control Upgrade
d) The Mark VIe migration will maintain the current I/O capability and provide the same functionality as the existing Mark VI control systems.
e) Site Services for the installation, start-up & commissioning will be provided as part of scope of supply.

Mark VIe Benefits

"e" Benefits -The Mark VIe provides performance, operability and reliability for today's connected plant.

a) **Increased computational power** – State-of-the-art Mark VIe processors provide access to sophisticated software enhancement modules to improve turbine performance, reliability, and operability.
b) **Minimum Downtime & Less Site Disruption –** Modernize within the existing Mark V Control system footprint in as few as five outage days; no impact to field wiring or turbine devices thus lowering risk
c) **Intuitive features** – GE's powerful ToolboxST software, with modern drag-and-drop type editors, industry leading trender with video type forward-reverse-freeze capability, and code-compare tools.
d) **Increased operational productivity** – User-friendly HMI graphics, alarm/event management, and trending leading to improved operator recognition and resolution of system faults.

e) **Maintenance efficiency improvements** – Reduced engineering time due to a single integrated software tool for configuring networks, processors, and I/O boards, along with editing application software, managing block libraries, and displaying system diagnostics.

f) **Latest GE software libraries** – Leverages years of GE experience and ensures safety related software updates are delivered. This will offer a significant reduction in the number of defined turbine trips while greatly improving reliability, availability, and equipment/personnel safety through our software enhancement modules.

g) **Improved reliability** – TMR controller redundancy provides 2 out of 3 voting to improve reliability and eliminate single-point communication failures within the control.

h) **I/O expandability** – Flexible and modular architecture allows for future growth of capabilities and applications.

i) **Modernized Communication -** Ethernet LAN conforming to modern IEEE 802.3 standards

j) **Programming Flexibility -** Conversion of 16-bit integer data format to 32-bit floating point enabling model-based control capabilities

k) **Built with cyber security best practices** – Achilles™ Communications Certification Level 1 Mark VIe Controllers feature hardened network switches and HMIs within a segmented network.

l) **Migration Advantages -** GE's commitment to continued support of existing control platforms has developed into a design strategy that includes all future control platforms to be backward compatible with the previous generation controls. This allows our customers to migrate their control to the current technology without a wholesale change out of the control system. The Mark VI to Mark VIe Migration is part of this strategy. Our customers can now, and in the future, take advantage of GE's continued commitment to developing state-of-the-art software, turbine upgrades, and system improvements for their turbine generator and BoP systems.

m) **15 Year Minimum Product Support Plan** –Mark VIe spare parts will be available for a minimum of fifteen years from the date of commercial operation. Our intentions are to provide parts for a much longer period, subject to the availability of components from our suppliers. After our ability to provide spares is exhausted, we will provide repair and return service for these parts for a minimum of five more years.

Mark VIe (Platform) History

As the Original Equipment Manufacturer, GE continues to invest in technology advances.

The design philosophy of the Mark VIe control system is extended life through a modular structure. This allows for incremental technology upgrades, obsolescence protection, and comprehensive system upgrades, without replacing the entire control system. It includes an Ethernet backbone and discrete modular building blocks, such as controllers, network components, and I/O modules with extensive software tools. In addition to addressing obsolescence issues, the Mark VIe TMR system will also provide access to new products and future enhancements being developed by GE.

The Mark VIe platform software is derived from current control and protection algorithms, which are used on new steam and gas turbines, and it is modified only where it is necessary for compatibility with the existing site conditions. All Mark VIe platform controls are shipped with application software and display software ready for installation. The Mark VIe control system is specifically designed to perform as a turbine control, with direct sensor interface and diagnostics inherent in the panel design. GE Mark Series turbine controls have helped gas and steam turbine users achieve RAM (Reliability - Availability - Maintainability) performance unmatched in the power generation industry.

The Mark VIe platform (delivered through this Mark V to VIe Migration) provides long life, support confidence, and a pathway to grow control system functionality over time. The future needs of control applications will assuredly demand increased performance and functionality. GE pioneered the application of physics-based control models that enable expanded operating envelopes, improved emission footprint, and better management of turbine parts life. GE is actively adopting contemporary smart instruments and field control elements that provide improved accuracy and predictive health insights for our new products and aftermarket offerings.

As the world's leading manufacturer of turbines and the manufacturer of the turbines at this site, GE has the engineering experience, access to original design data, documentation, and long-term commitment, unmatched by any competitor, to support this project.

Quality

GEII is committed to Customer Satisfaction, Compliance and Continuous Improvement. Our Quality Policy is codified on our QA Manual (OGQ-100) and flows down through our Control Solutions Quality Management System (QMS). Our Quality is demonstrated by the successful delivery of over 250 Controls Upgrades Globally per year.

a) Our Quality System Rigor is scalable ensuring quality from small HMI or DCS upgrades to Multiunit Oil and Gas or Nuclear Projects
b) Our Commercial, Project Management, Project Design Review and Acceptance Testing QMS procedures drive clear requirements management from you through to the end- product. We understand and take early action to ensure we deliver what you need. We integrate Global Regulatory, Technical and Cyber Security Standards into our upfront Proposal process so you and we know at Order Acceptance that you will be compliant within the scope we are quoting.
c) Our Continuous Improvement, Root Cause analysis processes and Six Sigma programs can demonstrate clear tie in from Lessons Learned on >250 projects globally per year to specific process and product improvements to benefit you
d) Our global design and manufacturing houses (USA, Brazil, Hungary, Bahrain/Saudi/UAE, Korea, Singapore, China and India) are ISO-9001 Certified by a leading Auditor such as LRQA or BSI. All operate under a Single globally consistent QMS – both within O&G and in Control Solutions.
e) Our Quality team is standing by to provide additional detail and examples as needed.

Project Management

Upon receipt of an order, the Seller will assign a Project Manager who will be the Buyer's single point of contact to ensure that the scope and delivery requirements are satisfied. The Project Manager's responsibilities will include:

a) Project scheduling and tracking for the project activities associated with the equipment delivery.
b) Procurement and expediting of all equipment and services included in this proposal to insure a smooth project.
c) Coordination of engineering, test and startup activities for the equipment upgrade.

Base Work Scope

Work Scope Overview

The Seller will upgrade the existing Mark VI turbine and BOP control hardware and software with Mark VIe hardware and software (ControlST and Cimplicity). The Migration Upgrade maintains all field wiring terminations and turbine devices. The Seller will swap out (plug & play) the Mark VI hardware from within the existing Mark VI Cabinet(s), with newer Mark VIe components (Controller, I/O packs and VME boards). The Seller's Controls Field Engineer will perform the work, and there will be no need for Craft Labor support. As part of this modification, the Turbine Control Panel software will be modified and returned to site for local installation and commissioning by a qualified engineer.

In addition to the Turbine Control and BOP control upgrades, GEII will also provide upgrades to the existing Water Wash Control System. The new control hardware will not be supplied in a new cabinet but rather will be installed in the existing Mark VI BOP cabinets as a part of the Mark VI to Mark VIe Full Migration. Water Wash functionality will be included in the Balance of Plant control system as a part of the migration and will cover both units. The existing Water Wash panels located on the two skids will be used as a marshalling panel with cabling for identified I/O being installed from the marshalling panel to the BOP panel.

Interface cabling between field devices, the marshaling panel and the BOP control system terminations will be the responsibility of the customer.

Two pressure transmitters will be supplied to be used on the inlet and outlet side of the water pump. These are being supplied on the request of the customer to replace existing pressure switches eliminating intermittent failures. Installation of the pressure transmitters including new cabling will be the responsibility of the buyer/end-user with Technical Direction being provided by the Seller.

Note the Mark VIe is specifically designed for direct sensor interface and diagnostics. Mark VIe software functionality is based on the as running Mark VI software, nearly duplicating all functions.

Bill of Material

Base scope of this proposal includes below items to support the Mark VI to Mark VIe Migration Upgrade.

Qty.	GT and BOP Hardware Description
4	Mark VI to Mark VIe TMR Migration (fit in existing Mark VI footprint) • GT7 – SN 297188 Turbine Control • GT8 – SN 298749 Turbine Control • Unit 7 BOP Control • Unit 8 BOP Control • MBC/AutoTune Software Updates
Lot	I/O Packs
Lot	Power Supplies/Power Distribution
Lot	Internal Cabinet wiring and Misc. Hardware – i.e., Ethernet cables, mounting hardware, labels, etc.
Qty.	**Water Wash Hardware Description**
2	Control hardware to accommodate up to **Forty (40)** TMR I/O points

2	Sets of Pressure Transmitters for inlet and outlet from water pump
Qty.	**Turbine Control - Operator Workstation HMI Desktop Computer (or Current Seller Standard)**
4	HP Z Workstation – Commercial Minitower Desktop Workstation (optional rack mounting available) • Intel Quad Core Processor • Two (2) SATA Solid State Drives • Dual monitor video card • Standard HP USB Keyboard US and 2-Button USB Optical Scroll Mouse • Multi-Unit HMI
4	24-inch LED flat screen monitor for operator station above
2	100baseT Ethernet cables, For UDH connections per HMI
2	100baseT Ethernet cables, For PDH connections per HMI
Qty.	**BOP - Operator Workstation HMI Desktop Computer (or Current Seller Standard)**
2	HP Z Workstation – Commercial Minitower Desktop Workstation (optional rack mounting available) • Intel Quad Core Processor • Two (2) SATA Solid State Drives • Dual monitor video card • Standard HP USB Keyboard US and 2-Button USB Optical Scroll Mouse
2	24-inch LED flat screen monitor for operator station above
2	100baseT Ethernet cables, For UDH connections per HMI
2	100baseT Ethernet cables, For PDH connections per HMI
Qty.	**Software Description**
1	GE CIMPLICITY HMI Software, including Windows® 10 Operating System, per HMI.
1	McAfee Antivirus & Acronis True Image Backup, per HMI.
1	Microsoft Excel and Word Programs, per HMI.
Qty.	**Ethernet Network Equipment**
NA	It is assumed that existing AT VLAN Network Communications Switches are in a good working order. Therefore, this proposal Base Work Scope does not include the replacement of those switches. Note: An Option to upgrade those switches to CISCO has been included in optional scope of supply if they are not separately upgraded prior to this controls upgrade.
Qty.	**Time Synchronization**
NA	Existing Time Sync Server will be retained
Qty.	**Historian**
NA	Existing Historian will be retained

Turbine Control and BOP System Hardware

Mark VI to Mark VIe Migration

The Mark VI to Mark VIe Migration includes the latest Mark VIe processors (controllers), power supplies, replacement of I/O boards, and the latest software enabling new capability and a clear path for future enhancements and extended lifecycle support.

Today's TMR Mark VI Electronic Hardware Structure (Typical)

Tomorrow's TMR Mark VIe Control: Mark VI Migration Hardware Structure (Typical)

a) Provides:

i. Product status is set to new Mark VIe lifecycle while supplying room in the cabinet for future expansion.

ii. Also included is the access to Controls LifeCare Subscription:

a. Parts availability & replacement, Technical Support, Scheduled software & HMI upgrades

b) Includes:

i. Mark VIe UCSC Controllers, Power Supplies/Distribution and Communication modules

ii. Replacement of Mark VI VME IO Racks

iii. IONet Switches and Ethernet cables replace Mark VI Terminal Block Cables

iv. Mark VIe I/O Packs replace the Mark VI I/O Boards utilizing a "Pack Rack" design

c) Timeline:

i. 9 days with as few as 6 outage days (12 hours per day)

Human Machine Interface ("HMI")

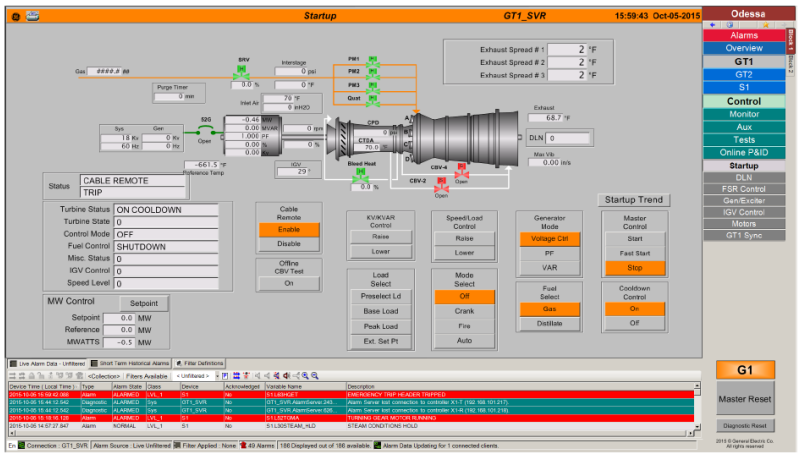
Operator Interface HMI

The operator interfaces will be replaced with modern HMIs in the same locations. This new operator interface has a Proficy HMI(s)CADA CIMPLICTY graphics package with accurate turbine screens, convenient navigation, superior alarm management, and tools for editors, trending, data analysis, and exporting data. Alarms are logged in the HMI and the new Trip History handles significantly more points with better time resolution and stores the data for 30 trips.

Remote operator interfaces will be replaced with HMIs that communicate in client(s)erver configuration on modern Ethernet networks. HMIs communicate directly with the redundant controllers. The communications interface between the turbine controller(s) and the HMI will be provided in a redundant architecture.

It is assumed that existing AT VLAN Network Communications Switches are in a good working order. Therefore, this proposal does not include the replacement of those switches.

The new HMI also includes a replica of communications protocols currently being used for Bently Nevada Communications.



Sample CIMPLICTY graphics

Engineering Design, Testing and Meetings

As part of the project, the Seller's Engineering Design will include the following:

a) Controls Software – sequencing and fuel control to replicate existing functionality

b) Engineering/Design – Water Wash Control Logic

c) Development of HMI Operator Graphic Screens (per Seller standard design)

d) **Site Kickoff Meeting:** A site kickoff meeting will be held at the End-user facility. Attendees to the meeting will include the project manager and a project engineer. The site kickoff meeting will be a one-day meeting that will review the project scope and schedule.

e) Communications with existing Bently Nevada Monitoring System

f) Communications to existing Excitation

g) Documentation (detailed below)

OnSite Monitor (OSM)

To collect data from the Mark VIe, OSMs will require software modifications or complete replacement, depending on the vintage. These modifications or replacement are included in this Proposal.

Documentation

Unless otherwise indicated, all electronic (softcopy) & hardcopy documentation, control screens, panel labels and wiring identification will be provided in the English language only, unless otherwise indicated. The Seller will provide the following product documentation in quantities and media type listed below:

Electronic Media Documentation

One (1) softcopy of the project documentation will be provided on electronic/digital media. The file types will be Adobe Acrobat PDF or the native file type received by the Seller's 3rd party vendor supplying its documents.

Hardcopy Media Documentation

Three (3) sets of the project documentation will be provided in hardcopy format on paper and inserted in into binders (3 ring or similar). The paper media will typically be 8-½" x 11" or 11" x 17" (for folded drawings). Note that HMI only projects will not include hardcopy documentation.

Documentation List

The following table shows the description of the project documentation that the Seller will be providing as part of the deliverables for the contract:

Item	Generic List
1.	Elementary (Wiring) Diagram/s (NI for NM & HMI) (AM where applicable)
2.	Outline Drawings (NI for NM & HMI) (AM where applicable)
3.	Layout Drawings, cabinet or otherwise (NI for NM & HMI) (AM where applicable)
4.	Recommended Spare Parts List
5.	Instruction Manuals/Publications, including Maintenance & User Guides; Ex: GEH, GEK
6.	System Guide/Publications; Ex: GEA
Item	**Application Specific List**
1.	Network Topology Diagram (“4108 drawing”) (TC/HMI/NM)
2.	Field Modification Instructions ("FMI") (where applicable)
3.	Mechanical Assembly Drawings (where applicable)
4.	Modbus Register Map (where applicable)
5.	Startup Report (where applicable)
	Notes & Legend
	TC=Turbine Control (Mark VIe), GC=Generator Control (EX2100e, LS2100e), TIL=Technical Information Letter HMI=Human Machine Interface (computer) & Historians NM=Network Modkit - HMIs, Historian, & Ethernet networks AM=Aftermarket Modifications - Software (changes), TIL, TC/GC hardware, etc. NI=Not Included

Computer Aided Design (CAD) drawings

If required as part of the contract, the Seller may provide the seller job specific drawings (not End-user/plant or vendor/ 3rd party documentation) in "CADD" (Computer Aided Drafting and Design) format. The following shall apply when the Seller provides drawings in CADD format:

a) The Seller will supply the final as-built drawings in AutoCAD.dwg format. Initial project drawings will be provided in Adobe Acrobat format. The AutoCAD™ version shall be that version used by the Seller as the time of the drawing generation.

b) To the meet the Seller's Intellectual Property guidelines the AutoCAD.dwg will be provided without a border or title block as unsigned unformatted drawings. The Seller makes no warranty as to the exactness or the completeness of such drawings. The Seller's drawings contain confidential and proprietary information; therefore, their use is restricted to the use with Products and/or Services as provided under the applicable contract/purchase order. Drawings shall not be disclosed to any third party unless otherwise agreed to by the Seller in writing.

c) Drawings for the Seller supplied 3rd party (Non-OEM/GE) equipment will be provided in the native format as received by the Seller's vendor.

Credit for the Return of Mark VI Hardware

As part of the Control Migration Upgrade package, Seller has included a reclamation credit in the price for the total base scope of supply for the return of the Mark VI hardware removed from the panel as part of this project and the associated Buyer owned spare parts. Parts removed from the panel will be collected and packaged for shipment to a Seller facility by the Seller's Field Engineer. In the case the Buyer has spare UCVx Controller Cards and would not like to retain this hardware, additional credit for each UCVx Controller Card will be provided. The Buyer will be responsible for collecting the spare UCVx that are no longer applicable to the Mark VIe Control and providing them to the Seller's representative for shipment.

Installation Site Services

Mark VI to Mark VIe Full Migration and HMI Upgrade - Installation and Commissioning

The Seller will provide the installation services required to upgrade the existing Block 7 & Block 8 (Main Units, BOPs & Fast Start) Mark VIs with a Full Migration to Mark VIe. The Seller will provide one Turbine Controls Field Engineer per Block, to technically perform the conversion of the Mark VI hardware to Mark VIe. The Seller's Field Engineer will also checkout & commission the new Mark VIe per Seller's standard procedures. Since the Migration consists of; removing Mark VI hardware and replacing it with Mark VIe hardware, while little to no field wiring will need to be de-terminated/re-terminated from/to the existing terminal blocks during the process, and no Migration related work is required outside of the Mark VI controller cabinets, hence, only a minimal amount of craft labor has been included to assist the Seller's Field Engineers. Any/all work outside of the control cabinet will be the responsibility of the Buyer/End-User.

As mentioned above, little to no field wiring will be de-terminated/re-terminated from/to the existing terminal blocks during the Mark VI to Mark VIe Full Migration, and therefore, only an abbreviated checkout is done following the Migration, this is to assure that the terminal board assignments in the ToolboxST software matches the field wiring that is terminated on the terminal boards. This abbreviated checkout typically consists of, but is not limited to, the following: analyzing/troubleshooting all diagnostic and process alarms, performing valve and IGV calibrations, using ToolboxST to energize/de-energize solenoids, using ToolboxST/HMI screens to turn on/off various motors/pumps, and performing a small sampling of loop checks (~1 per terminal board). This abbreviated checkout normally takes approximately one day per Mark VIe for the Seller's Field Engineer to complete and requires some assistance from a Buyer/End-User supplied Operator or Technician. That only an abbreviated checkout is all that is necessary after a Migration, is one of the main advantages of performing a Migration versus a full cabinet replacement.

In conjunction with the Mark VI to VIe migrations, the Seller's Turbine Controls Field Engineers will also perform the installation, checkout and commissioning of six (6) new HMIs (4 at Kennedy, 1 at Brandy Branch and 1 at Greenland) and upgrade ControlST as necessary on the one (1) existing Historian at Kennedy Station.

An *Option* has also been provided for the installation of (6) six pairs of new Cisco network switches.

Note: For communications between the Mark VIes, network switches and HMIs the existing Ethernet/fiber network cabling will be re-used. If any new fiber optic or Ethernet cabling is necessary, it will need to be provided and installed (by others). (Seller will provide the necessary new short runs of Ethernet cabling required to connect the Mark VIe packs to the Mark VIe controllers).

Mark VI to Mark VIe Full Migration

The Seller's Turbine Controls Field Engineers will perform the following tasks, with the assistance of the Seller supplied craft labor.

a) Pre-Outage
   i. Safety orientation
   ii. Locate, uncrate and identify equipment
   iii. Stage parts and work area

b) Main Units' Mark VIe Hardware Upgrade Installation
   i. Power-down Mark VI / LOTO (Buyer/End-User responsibility, Seller to verify)

ii. Disconnect cables from, and remove R, S & T VME rack assemblies

iii. Disconnect cables from, and remove VPRO assembly and TPRO terminal board

iv. Install new Mark VIe Controller assembly in same footprint as VPRO

v. Use existing power plugs from VPRO to power new controller assembly

vi. Remove necessary Mark VI terminal boards

vii. Remove the Mark VI, 37-pin cables that will no longer be used

viii. Install new standard Mark VIe terminal boards and packs in place of the removed Mark VI terminal boards

ix. Install power cables from controller assembly to all Mark VIe packs

x. Install Ethernet cables from Controller assembly switches to all Mark VIe packs

xi. Verify all cables and connections are correctly in place

c) Fast Start Mark VIe Hardware Upgrade Installation

i. Power-down Mark VI / LOTO (Buyer/End-User responsibility, Seller to verify)

ii. Disconnect cables from, and remove R, S & T VME rack assemblies

iii. Remove necessary Mark VI terminal boards

iv. Remove the Mark VI, 37-pin cables that will no longer be used

v. Install new standard Mark VIe terminal boards and packs in place of the removed Mark VI terminal boards

vi. Install power cables from Main Unit Mark VIe Controller assembly to all Fast Start Unit Mark VIe packs (assumes that the Fast Start Rack is in the same building and in relatively close proximity to the Main Unit Mark VIe)

vii. Install Ethernet cables from Main Unit Mark VIe Controller assembly switches to all Fast Start Mark VIe packs (assumes that the Fast Start Rack is in the same building and in relatively close proximity to the Main Unit Mark VIe)

viii. Verify all cables and connections are correctly in place

d) BOP Mark VIe Hardware Upgrade Installation

i. Power-down Mark VI / LOTO (Buyer/End-User responsibility, Seller to verify)

ii. Disconnect cables from, and remove the “R” VME rack assembly

iii. Install new Mark VIe Controller assembly in same footprint as the “R” VME rack

iv. Use existing power plugs from “R” VME rack to power new controller assembly

v. Remove necessary Mark VI terminal boards

vi. Remove the Mark VI, 37-pin cables that will no longer be used

vii. Install new standard Mark VIe terminal boards and packs in place of the removed Mark VI terminal boards

viii. Install power cables from Controller assembly to all Mark VIe packs

ix. Install Ethernet cables from Controller assembly switches to all Mark VIe packs

x. Verify all cables and connections are correctly in place

e) HMI Upgrades

i. Install the four new HMI's at Kennedy Station in same locations/footprints as the existing HMIs, utilizing the existing Ethernet cables

ii. Travel to Brandy Branch and Greenland Stations and install one new HMI at each site, in same locations/footprints as the existing HMIs, utilizing the existing Ethernet cables

iii. Perform software downloads and update ControlST as necessary on existing site Historian

iv. Perform downloads as necessary to the EX2100s and LS2100s to integrate them with the new .tcw file, HMIs and Mark VIe controllers

f) Checkout & commissioning

i. LOTO Clearance (Buyer/End-User responsibility)

ii. Power-up Mark VIe Controllers

iii. Establish network communications between Mark VIe & HMIs

iv. From Master HMI, perform initial software downloads to the Mark VIe Controllers

v. Perform post-migration Mark VIe Control System Checkout (per GE standards)

vi. Cimplicity screen validation

vii. Alarm validation

viii. Verify Historian is collecting data

ix. Verify communications to the Brandy Branch and Greenland HMIs

x. Perform Turbine Start-Up & Commissioning Tests (per GE standards)

xi. Demobilize

xii. Clean up and final drawing markups

xiii. Final Report

Network Switch Upgrade - (6) Six pairs of network switches - Option

The Seller's Turbine Controls Field Engineers will perform the following tasks.

a) Carefully remove the existing Ethernet and fiber optic cables from the existing network switches (the existing fiber and Ethernet cables will be re-used)

b) Install the new Cisco switches in the same locations as the existing switches (either rack mounted, on a shelf or table—rack/shelf/table not included)

c) Plug the existing Ethernet and fiber optic cables into the proper ports on the new switches (if different fiber patch cables or adapters are required, it is the responsibility of the Buyer/End-User to furnish and install)

d) Power-up the new network switches

e) Verify communications with the new network switches by pinging the switches from an HMI and pinging the controllers that are connected to the new switches from an HMI. Also verify that the controllers that are connected to the new switches can be accessed from an HMI through Toolbox/ToolboxST.

Water Wash Modifications to Integrate WW Control to BOP Mark VIe

During the Mark VI to Mark VIe Migrations, the Seller's Turbine Controls Field Engineers will perform Technical Direction of Installation (TDI) for the Water Wash modifications to integrate the control of the Water Wash into the BOP Mark VIe on both Blocks 7 and 8. The Seller's Field Engineers will also checkout & commission the new Water Wash controls per Seller's standard procedures.

TDI is defined as: overseeing the **work** performed by the Buyer/End-User supplied craft labor and/or Plant technicians.

The existing Water Wash panel located on the skid will be used as a marshalling panel with cabling for identified I/O being installed from the marshalling panel to the BOP Mark VIe cabinet. Interface cabling and conduit between field devices, the marshaling panel and the BOP Mark VIe cabinet, and the associated wiring terminations will be the responsibility of the Buyer/End-User.

Water Wash Modifications

The Seller's Turbine Controls Field Engineer will oversee the work performed by the Buyer/End-User supplied craft labor/Plant technicians.

a) Install necessary field wiring/conduit/cable tray between WW skid control panel and the respective Unit BOP Mark VIe cabinet

b) Install terminal strips as necessary in the existing WW control panel cabinet

c) Terminate the WW skid field devices and the new field wiring to the new terminal strips in the WW skid control cabinet, that will now be used as a marshalling cabinet

d) Per drawing, terminate new field wiring on Mark VIe terminal boards

Water Wash Commissioning

The Seller's Turbine Controls Field Engineer will perform the following with assistance from the Buyer/End-User supplied craft labor/Plant technicians.

a) Perform the necessary software downloads to the BOP Mark VIe to incorporate the WW signals and software

b) Loop check the WW skid devices back to the BOP Mark VIe/HMI

c) Functional checks of the WW skid components

d) Performing an actual WW will be at the discretion and the responsibility of the Buyer/End-User

Site Services Division of Responsibility (DOR)

This (DOR) table identifies the entity responsible for various aspects of the controls upgrade proposed and outlines the basis of the Services estimate. It is intended to aid the execution of the project by clearly describing the expectations of all parties.

Responsibility Legend: B=Buyer/End-user, S=Seller, N/A= Not Applicable			
Item	**Description**	**Responsibility**	**Comments**
PREPARATION			
a)	Lock Out Tag Out ("LOTO") of all equipment related to Seller's work, prior to start of Seller's work. Seller personnel will verify	B	
b)	Health, Safety, Emergency Response & Security Procedures	B	
c)	Regulatory Requirements and permits (Air, welding, work, etc.)	B	
d)	Hardhat, safety glasses, hearing protection, hand protection, safety footwear for Seller's personnel	S	
e)	Offload the Seller supplied equipment/material upon delivery and store as required. Place equipment near work area prior to the start of Seller's work.	B	
TEMPORARY CONSTRUCTION FACILITIES			
f)	Scaffolding: Supply, installation, setup and removal	B	None expected to be required
g)	Crane and/or forklift, rigging, rigging plan & Operator	B	
h)	Temporary Utilities (electric, light, air, water, and internet)	B	
i)	Office space, internet access, sanitary facilities, drinking water, parking etc. for Seller's personnel.	B	
j)	First Aid facilities	B	
k)	Hazardous Material identification, testing & abatement. Seller shall be afforded schedule & price relief related to any remediation efforts.	B	
CONTROL INSTALLATION			
l)	All Installation labor, equipment and materials for HMI upgrades, Mark VI to Mark VIe Migrations and Optional Network Switch upgrades	S	
m)	All Installation labor, equipment and materials for the Optional Water Wash modifications	B	Seller will provide the required Mark VIe terminal boards
n)	Signal Mapping or changing of third-party signal tables required due to Controls upgrade	B	
o)	Testing required to satisfy regulatory requirements	B	
p)	Any Unit DLN tuning, Opflex tuning, or the like that may be required after the Control system upgrades	B	
q)	Provide a minimum of one dedicated individual to support the Seller's Field Engineer(s) in the I/O verification (loop checks),	B	

Responsibility Legend: B=Buyer/End-user, S=Seller, N/A= Not Applicable			
Item	**Description**	**Responsibility**	**Comments**
	including valve and IGV calibrations. Buyer personnel provided for this activity must have familiarity with the unit, location of devices, and methods for adjusting devices to impact change in the control system. The Buyer must provide specialty devices such as radios, function generators, pressure devices, etc. required for checkout.		
INSTALLATION SUPPORT			
r)	Dedicated Operations support during commissioning and startup testing	B	
s)	Calibration of Protection devices & relays during setup and commissioning	B	
t)	Checkout of the communications to a DCS or other site devices will include only basic assurance that separate modes are functional. Complete point-to-point testing can be provided at additional cost. Operational control will be tested and commissioned only from the Seller HMI's	B/S	(i.e Brandy Branch & Greenland HMIs)
u)	The existing Ethernet/fiber optic cables will be re-used. If it becomes necessary, any updates to existing, or supply/installation/testing of new, Ethernet/fiber network to support the operation of the Seller supplied equipment will be the responsibility of the Buyer/End-User. (As part of the Migrations, Seller will supply the new Ethernet cables that will connect the new Mark VIe terminal board packs to the IOnet switches contained in the Controller assemblies).	B	Fiber adapters/jumpers if switch option is accepted
v)	Provide any specialized test equipment, if required	B	
w)	Confined space entry permit, specialized equipment, observer and personnel to enter the confined space, and perform work.	B	
x)	Disposition of all removed equipment and generated trash	B	
y)	Removal and re-installation of third-party devices within cabinets, not specifically identified as part of the Seller's scope of supply	B	None anticipated

Optional Work Scope

Spare/Replacement Parts

Seller recommends spare parts be kept on hand as a minimum requirement in order to prevent prolonged downtime in the unlikely event of a failure. Typical parts involve the control circuit boards most critical to the operation of the system.

Network Upgrade

If not already upgraded prior to this Mark VIe Controls project, Seller has provided an option to upgrade the existing AT switches to CISCO VLAN network communications switches. This will include hardware, engineering and site services to complete the scope of supply.

Bill of Material

Qty.	Ethernet Network Equipment
6 Pair	Cisco VLAN Network Communications Switches for Redundant UDH and Redundant PDH • Qty 1 Pair - CISCO IE2000 Edge - GT8 PEECC • Qty 1 Pair - CISCO IE2000 Edge - GT8 LEC • Qty 1 Pair - CISCO IE2000 Edge - PDC Building • Qty 1 Pair - CISCO IE2000 Edge - GT7 GAC • Qty 1 Pair - CISCO 2960x Edge - Building 15 - Maintenance Bldg. • Qty 1 Pair - CISCO 2960x Root - Building 11 - Control Room
8	CISCO IE2000 AC Power Module
16	SC to LC Adapters
16	100Mb SFP

Proposal Basis

This section lists those items which are provided by the Buyer or End-user and not part of the Seller's scope of supply. It also lists the Seller's assumptions, comments to Buyer's requirements, and the breakdown of Buyer/End-user responsibilities.

General Assumptions and Clarifications

Below represents the Seller's Clarifications, Assumptions and Exceptions related to the Seller supplied equipment and services;

a) Seller believes that this proposal/quote meets the intent of the Buyer's request and will be the document of reference in any resulting contract.

b) Seller assumes multiple units onsite (included in this proposal) are similar except for the Unit number designators and tag names as they relate to the Seller supplied equipment (Hardware, Software), engineering, documentation and control logic functionality. IE: Pricing for unique hardware, software or engineering is not included, when the scope of work is applied to multiple units onsite, which are assumed to be similar.

c) Unless otherwise specifically identified herein, this proposal assumes that none of the Seller's equipment (and related engineering) being supplied under this contract (or related contract) will be installed in, or have its wiring routed through, a classified hazardous area (Ex: Nuclear, Safety Related, ATEX, Class I, Div2 or Class 1 Div1 area).

d) Unless specifically identified in this proposal, the Seller is not supplying any cables (copper, Ethernet, or fiber optic), networking equipment, field devices, instrumentation, cabinets, housings, solenoids, actuation devices, or installation materials.

e) It is assumed that any existing equipment, including but not limited to cabling, wiring, sensors, field devices, terminal boards, communication networks, etc., that are not being replaced as part of this Work scope are in a good working order and calibrated to OEM specifications. Replacement of non-functioning, calibration, or faulty equipment is not included in the scope of this document, unless otherwise specified. If a site survey and Seller's engineering results in the need for additional equipment, cabling and field devices, this will result in a contract change order where pricing and delivery cycle relief will be afforded to the Seller

f) All machine components are in satisfactory condition and will operate with the new controls. This includes, but is not limited to, the existing metering, generator protection/control, lubrication, cooling, gas, fuel, steam and hydraulics systems.

g) If a RFQ or technical specification is presented by the Buyer/End-User during the project's execution (contract term), that were not initially brought to the attention of the Seller during the proposal development stage and said specifications/requirements subsequently increase the cost of the project for the Seller, this will be treated as a Contract Change Order and billed accordingly.

h) Seller reserves the right to substitute suitable and equivalent third-party hardware in place of those proposed, should such items become obsolete prior to final delivery of those products. If during the warranty period, a third-party hardware item becomes defective and requires replacement, such item may be replaced by a substitute item if the third-party item has been obsoleted. Buyer shall receive notification of substitution prior to shipment of the items.

i) When existing cabinetry is being reused, the Buyer/End-user shall be responsible for the condition and suitability of same to house the Seller supplied equipment, maintaining NEMA, EMI and RFI requirements, as an example.

j) No provisions for a separate, integrated FAT or communication testing with a foreign device or other sub-systems (DCS, SCADA, Historian, etc.) are included in this proposal. Simple communication testing with Buyer/End-user's foreign devices or other sub-systems can be conducted and verified by the Seller's field engineer carrying out the commissioning onsite. Should Buyer decide to have a separate communication test with other systems at Buyer's facility, Seller will provide a quotation upon Buyer's request and detailed definition

k) No modifications to any Buyer DCS or third-party equipment are included in this proposal. The new Seller supplied equipment may require modification to DCS signals to maintain compatibility. Modification of these DCS signals is the responsibility of Buyer.

l) Relevant OEM Technical Information Letters ("TIL") related to equipment being provided, have been performed by Buyer/End-user prior to installation of Seller supplied equipment.

m) Buyer is responsible to adhere to the timetable of critical project data exchange and execution milestones as identified in the detailed project schedule agreed to at the kick-off meeting.

n) As the project, must incorporate Buyer specific requirements, Buyer must support all project activities.

   i. Support Site kick-off meeting, site visits, design reviews, status meetings, etc.

   ii. Participate in Buyer Witnessed Factory (if included) and Site Acceptance Tests

   iii. Respond to Seller inquiries and requests for documentation in a timely manner.

   iv. Direct all communications through Seller's assigned Project Manager.

   v. Document, in writing, approvals for all change orders.

o) Non-Seller Engineering Design Package: As part of our base offer the Seller will provide unit specific equipment design drawings for the equipment we are providing, which will show termination points/locations. A plant specific Engineering Design Package ("EDP") is typically required, which takes the Seller's equipment specific drawings and the existing plant drawings and integrates them into a seamless EDP for the Site Services and Craft Labor teams. If the EDP is not provided by the Seller (as Base or Optional), and a Non-Seller third party provides this EDP, the Seller assumes that the 3rd parties EDP is accurate and without errors. Should errors in this 3rd party EDP result in re-work or delays, on the part of the Seller, these delays/additional work will be treated as contract change order.

p) GEII will execute the full software development for the Balance of Plant (BOP) scope of supply.

q) GEII will execute the full software development for the Water Wash System Upgrade scope of supply.

r) Any NPI time, which be required for this application is not included in this proposal and is not the responsibility of GEII.

s) The GEII Site Services scope is limited to the inside the control panel only. Any work, trouble shooting, wiring, etc. outside of the control panel is the responsibility of customer or the Enduser, this typically includes inter-plant Ethernet wiring.

t) Assumes all units are in outage at the same time.

Application/Product Specific Buyer/End-user Responsibilities

The following represents the Buyer/End-user responsibilities which are specific to the product being supplied by the Seller;

Mark VIe Turbine Control

a) The upgraded turbine control system shall provide the same functionality as the existing control system. Please note additional information will be required during the project kick-off meeting to ensure agreement of the parties is reached with respect to functionality provided. In some cases, the requested functionality may not be supported if it may cause an unsafe turbine operational condition. In all cases the Seller shall make every attempt possible to suggest an alternative field proven approach that may achieve functional objectives and provide cost impact when applicable.

b) Contact input voltage (CIT) is assumed to be 125 VDC.

c) Provide access to instrumentation and power ground sources.

d) Gas Turbine Applications:

   i. Black start functionality is not included.

   ii. DLN tuning for unit upgrades such as modifications to the fuel system shall be provided by others.

e) It is assumed the existing vibration interfaces and configuration will remain as is.

f) Not supplied as part of this offer are Intrinsic Safety barriers or marshalling panels. Those should be supplied by the Buyer should they be deemed necessary.

g) This proposal does include modifications to Onsite Monitor ("OSM") systems that may exist on site.

Human Machine Interface ("HMI")

a) Site information/data related to the current HMI installation. This data will be required prior to order acknowledgement and prior to the Seller building/designing the new system. This data will also be used to update the Network Topology (4108) drawing associated with this site/installation. The Site data shall include:

   i. Existing as-running topology drawings: The Seller assumes that a 4108 Network Topology drawing is available today. The Seller has included the cost to create a new 4108 Drawing.

   ii. Other Network Information; Include any devices, communications and other items that are not shown on the current topology drawings.

   iii. As Running software (must run software gathering tool). It is important that current data be collected from the equipment to avoid issues with the new equipment not arriving with current control constants, unit software updates or screen updates. The Buyer/End-user is responsible for additional engineering or installation time required to update outdated information after it is originally supplied.

   iv. Current and as desired HMI information, via HMI/Network Questionnaire form.

   v. If the Buyer cannot provide the Seller with the above site data, the Seller will be obligated to retrieve the data. All time and related expenses associated with collecting the site information/data will be billed to the Buyer/End-User at actuals, per the Seller's Standard Services Rate Schedule in affect at the time of the work.

b) Considerations for the purchase of new or additional network switches: The Buyer/End-User will be required to install and verify new Ethernet cabling (if required) prior to the arrival of the seller field engineer.

c) Services pricing included assumes all units/machines associated with this HMI upgrade will be offline concurrently

d) The HMI hardware and software package is a tested integrated system. Extensive qualification and verification are performed to ensure 100% compatibility of the components of the HMI core-load and hardware. For warranty and support reasons removal of any of the GEII provided software or addition of any third-party software packages/hardware packages will result in GEII inability to properly service and maintain the equipment and thus voids GEII warranty on these products.

e) Network Analysis & Troubleshooting software (Non-Seller supplied software): Network analysis software is permitted to be installed (by the Buyer/End-user) on a Seller supplied computer for network analysis and troubleshooting physical network nodes connected to the Plant Data Highway, Unit Data Highway and third-party interface protocol communications, e.g., Modbus, IEC-60870, OPC, DNP3, IEC-61850. This permission assumes that this software does not directly interface or disrupt the process of the Seller turbine/generator control software and associated communication and that it will not interfere with the operation of the Seller supplied computer in any way. This practice will not void the Seller software warranty, provided as part of the software license/Addendum, provided that the malfunction was not caused by the installation of the Network analysis software by the Buyer/End-user.

f) Graphic Displays will be created as required from the standards in the GE library and customized for site specifics. Approximately **20** displays per unit will be created to support site operations, engineering and maintenance functions. Additional custom screens can be provided and will be quoted based on content and complexity. Typical screens may include the following:

   i. Main or Unit Control Display
   ii. Gas Fuel System Display
   iii. Exhaust Gas Temperature (EGT) Display
   iv. Start Check Display
   v. Alarm Display
   vi. Vibration Display

g) In accordance with the project schedule, customer will provide the necessary support and engineering resources to review, comment and approve the design and layout of the HMI screen templates, as well as any Hardware, Software designs that are submitted for this purpose. Once approval is received, the design of the HMI screens and Hardware/Software will be fixed. Any subsequent requested changes by the buyer may require additional engineering time to be allocated to the project, which will be charged as additional cost.

Balance of Plant ("BoP")

a) Network analysis software is permitted to be installed on Seller's HMIs for network analysis and troubleshooting physical network nodes connected to the Plant Data Highway, Unit Data Highway and third-party interface protocol communications, e.g., Modbus, IEC-60870, OPC, DNP3, IEC-61850.

b) Seller will not modify the Buyer supplied external equipment/foreign devices or other sub-systems for communication interface with the Mark VIe. Buyer/End-user is responsible for any additional hardware or programming required for the interfacing of Seller supplied equipment to Buyer/End-user supplied external equipment/foreign devices.

c) **Existing Upgrade/retrofit:** Logic, Logic Diagrams, P&ID's, Process Flow Diagrams, and/or Functionality Definition. Seller will use this information to develop the application software for this project based on the existing control strategies. Alternatively, the Buyer/End-user or the Buyer/End-user's representative can give Seller new algorithms. Seller can provide standard logic design and control block library functions for the Buyer/End-user to review and to utilize. This provides specific logic for equipment and control functions. Seller will review Buyer/End-user logic or descriptions and identify any issues or errors uncovered. The logic developed will also be tested by Seller using simulation to confirm operability.

d) Flow Charts and Written Descriptions of the step-by-step sequencing and operational prerequisites. This will be the basis of the start-up and shut down sequencing configured into the Mark VIe. Seller will collaboratively assist the Buyer/End-user during the design definition phase with regards to the sequencing and process design.

e) Document setpoint ranges and alarm points to support Seller's I/O database development.

f) Definition of all interfaces and the signals to be transmitted between the Seller provided equipment and Buyer/End-user supplied external equipment/foreign devices.

g) HMI screen prints and P&IDs with adequate instrumentation and control detail to support HMI screen development

h) **TDI Services:** Site readiness is to be verified by the Buyer through the completion of a Seller supplied Pre-Mobilization Checklist. Since Seller does not control the site installation activities, Seller cannot guarantee the time it will take to perform system start-up and commissioning activities. Expectations prior to the start-up support arrival on site are as follows:

   i. All signal and power cables for the DCS shall be installed, terminated, and fully electrically tested.

   ii. A permanent source of power to all DCS panels shall be available and energized.

   iii. All interconnecting communication cabling including fiber optic cabling shall be installed and terminated.

   iv. Locations shall be identified for all computers, monitors, printers, and network equipment (switches, routers, media converters, etc.).

   v. Reliable power shall be available for all computer and network equipment.

   vi. Any conduit required to interconnect computer and network equipment shall be in place.

Documentation Related Buyer/End-user Responsibilities

a) Except where stated herein, all documentation and computer screens will be in English

b) It is assumed that Seller will be furnished, upon request, with full drawings and information concerning the state of the existing installation including wiring information to the existing terminations including process and instrumentation diagrams ("P&ID's"). If such information is not available Seller will charge for the work involved in obtaining this information

c) It is assumed the Seller will be furnished recorded baseline operational and performance data no later than two weeks after receipt of an acceptable Purchase Order. If data was recorded longer than six (6) months before receipt of a Purchase Order, updated/recent data will need to be capture and provided to the Seller. The data should demonstrate successful starting, loading, base load and peak load (if applicable) operation on all fuel types.

d) Overall project cycle time is dependent upon receipt of current "Site data". It is Buyer's responsibility to provide the relevant Site Data in a timely manner. Seller's Project Manager will be assigned after receipt of

order and will provide instructions for the download and transfer of site data as necessary. Site services to obtain the site data are not included in this offering but can be provided for an additional cost. Site Data includes, but is not limited to, 1) as running software and 2) design/engineering/P&ID drawings.

e) If this Site Data is not provided within two weeks upon placement of order, the possibility exists that the hardware/software may be engineered using default, generic data and a delay in delivery and/or an extended startup time may result.

f) Unless explicitly identified above, Seller is not supplying interconnect wiring or loop diagrams.

g) This proposal does not include Plant Operation manual updates, or any other site documentation modifications.

h) To initiate and complete the engineering the following (including but not limited to) documentation shall be provided in a timely manner:

   i. As-running Turbine, Generator, and Motor Control Center controls elementary diagrams
   ii. As-running device summary diagram
   iii. As-running controls specifications
   iv. As-running connection diagram
   v. Electrical One Line diagram

i) NOTE: Delays in receiving i) current/as running drawings/software or ii) incomplete or poor quality drawings, which contain errors could result in a contract change order (with schedule and price relief) to overcome drawing/documentation issues which may hinder Seller from completing its engineering within the agreed upon schedule.

Project Specific Assumptions and Clarifications

The HMI Upgrade and Optional Network Switch Upgrade schedule and pricing are based on the following assumptions/clarifications.

a) Assumes that the new Network Switches will be placed in the same footprint(s) as the existing switches, whether in rack, on a shelf or table, etc.

b) Proposal does not include mounting screws/bolts for securing the new Network Switches to racks. If the existing screws/bolts cannot be re-used, Buyer/End-user is responsible for furnishing the proper screws/bolts.

c) This Proposal only includes the supply/installation of new Ethernet cables for the new HMIs. It assumes that all other existing Ethernet/fiber optic cables and ends are in good condition and can be re-used. If connectivity becomes intermittent or suspect using the existing Ethernet/fiber optic cables, Buyer/End-user is responsible for furnishing and installing replacement Ethernet/fiber optic cables.

d) This Proposal does not include any Fiber patch cables or adapters that may be required to adapt the existing fiber optic cables to the fiber optic ports on the new Network Switches. Any required patch cables/adapters are the responsibility of Buyer/End-user to furnish/install.

e) This Proposal does not include labeling of any existing Ethernet/fiber optic cables

Commercial

The scope of supply identified in this document is subject to the following terms and conditions, and by reference are incorporated herein.

Base Scope Pricing

Item	Qty.	Description	Price
1.	1 Lot	Mark VI to Mark VIe TMR Turbine Control Migration as defined in section 2 and 3 including hardware, engineering, and site services for the following units: • GT7 – SN297188 • GT8 – SN298749 • BOP 7 • BOP 8 • MBC/AutoTune Software Updates - SN297188 • MBC/AutoTune Software Updates - SN298749	$1,253,039
2.	1 Lot	Mark VIe Water Wash Engineering/Hardware and site services as defined in Section 2 and 3 to cover the following units: • GT7 – SN297188 • GT8 – SN298749	$82,978
3.	1 Lot	Parts reclamation credit for the return of the Mark VI Hardware & spares	**Included**
		Total Base Work Scope Price:	**$1,336,017**

Optional Scope Pricing

Item	Qty.	Description	Price
1.	1 Lot	Spare/Replacement Parts as defined in section 4.1	$20,154
2.	1 Lot	Unit 7 and 8 Network Upgrade as defined in section 4.2	$55,025
3.	1 Lot	Collection of as-running Mark VI and Mark VIe software, HMI software	By JEA or by Seller at T&M
4.	1 Lot	Option to opt out of parts reclamation credit for the return of the MarkVI Hardware & Spares	$53,210

Pricing Limitations and Considerations

a) Unless otherwise indicated, the prices quoted herein are valid for the delivery of equipment in **2022** and performance of services in **2022**. Delivery of equipment or performance of services in years subsequent to these shall be subject to a price escalation fee equal to 4% per year of the contract price for the undelivered equipment or un-performed services.

b) This proposal shall remain valid for 30 days from the date indicated in the cover page of this proposal, with either party having the right to cancel within 30 days written notice.

c) Prices quoted are based on the Assumptions and Clarifications as described in the Proposal Basis Section and performed according to the Terms and Conditions referenced or provided herein.

d) Seller reserves the right to review and re-quote this job if there is a discrepancy between this proposal and the purchase order. If Seller receives a specification between the issuance date of this proposal and receipt of the purchase order, Seller reserves the right to re-evaluate this proposal.

e) The Seller will evaluate changes to the specification, drawings, services or existing equipment. The will evaluate if these changes constitute a change in the quoted workscope or schedule. Seller will quote the changes and a change order must be received before work is to proceed.

f) The pricing breakouts outlined in this proposal are for accounting purposes only and are not to be considered as standalone prices.

g) The prices quoted herein exclude taxes or other regulatory fees.

h) The prices quoted herein exclude duties.

i) Travel and lodging/living ("T&L") expenses are included.

j) Parts Reclamation Program: The pricing above is contingent upon the implementation of the Sellers Parts Reclamation Program whereby the Buyer returns the hardware removed as part of this project and the associated Buyer/End-user owned spare parts. The parts removed will be collected and packaged for shipment to a Seller's facility by the Seller's Field Engineer, with assistance from the Buyer/End-user site personnel. The Buyer/End-user will be responsible for collecting any spares that are no longer applicable to the control system and providing them to the Seller's representative for packaging. The Seller will provide the packaging material and shipping expense for returning the reclaimed parts to the Seller's facility. Failure to return removed hardware and unused spare parts may result in a contract change order for the value of the un-returned hardware/parts.

Schedule

Equipment (Hardware and Software) Schedule

The After Receipt of Order ("ARO") date will be the date that the Seller ***acknowledges*** the Purchase Order, not the initial date that the Seller receives that PO.

The estimated timescale from acknowledgement of PO/contract to the completion of the workscope or Delivery of the equipment is **42 weeks** and is based on current factory loading and lead times offered by Seller and other vendors, if any.

a) Equipment Schedule Limitations

Delivery dates can vary depending on factory workload and should be confirmed before issue of order. Delays in receiving vital information from the Buyer/End-user or delays in receiving "review" drawings back from the Buyer/End-user will impact the ARO delivery dates. These delays may result in a day for day slip in the deliver schedule or a complete shift the delivery dates indicated herein.

When detailed drawings representing the Buyer's current (as-running), installed equipment cannot be made available to the Seller, it is critical that the Seller has sufficient time and physical access to the Buyer's equipment while in a Lock-out/Tag-out condition. This will allow the Seller to take measurements, design, manufacture, and **Field Fit** these portions of the total scope of supply. Some examples of this may include fuel valve/actuator/solenoid mounting plates, blanking plates, speed probe brackets, etc.

Seller's proposed schedule with milestone dates will be presented at the Project Kick-Off Meeting. This project schedule will illustrate the various activities from purchase order/contract receipt, through design, manufacture, testing, shipment and site services (if in workscope).

The overall price and cycle quoted herein requires full cooperation between the Seller and the Buyer/Endsuer, and adherence to key milestones dates specified as part of a project implementation plan. The specific milestone dates will normally be set during the Project kick-off meeting and will normally include, but may not be limited to, the following key project control points.

a) Project Kick-Off Meeting (Buyer and Seller)
b) Site survey and/or supply of applicable site data (Buyer and Seller)
    i. Site data (Buyer)
    ii. Drawings and documentation (Buyer)
    iii. Logistics Data (Buyer and Seller)
c) Drawing submittals (Seller)
d) Design review and approval (Buyer)
e) Design freeze (Buyer and Seller)
f) Factory acceptance test/Buyer witness test (Buyer and Seller)
g) Supply of documentation for shipment (Buyer)
h) Support commissioning, start-up, site acceptance testing and handoff (Buyer and Seller)
i) Delivery of documentation (Seller)

The Buyer shall be provided drawings of sufficient quality and thoroughness early in the project and be given one review cycle, to submit comments and request changes. The review cycle is typically 3 weeks long, but depends on the project schedule and will be reviewed and agreed upon at the Kick Off Meeting. After the review cycle the design will be considered frozen and the cost and schedule impact of requested changes will increase.

Site Services Schedule

The Seller's Services Schedule is based on the following trips, time onsite and working schedule:

Per Block – Full Migrations & HMI Upgrades (Base Scope)	Working Schedule	Duration
Trips:	(1) One roundtrip	
Travel in	8 hrs./day, 5 days/wk., Mon-Fri, single shift	1 day
Pre-outage Job Prep.	10 hrs./day, 6 days/wk., Mon-Sat, single shift	1 day
Full Migration Hardware Installations & HMI Installations	10 hrs./day, 6 days/wk., Mon-Sat, single shift	19 days
Checkouts & Valve Calibrations	10 hrs./day, 6 days/wk., Mon-Sat, single shift	2 days
Startup/Commissioning	12 hrs./day, 6 days/wk., Mon-Sat, single shift	1 day
Report/Wrap-up	8 hrs./day, 5 days/wk., Mon-Fri, single shift	1 day
Travel Out	8 hrs./day, 5 days/wk., Mon-Fri	1 day

Per Block – Water Wash Modifications	Working Schedule	Duration
TDI, Checkout/Commissioning	10 hrs./day, 6 days/wk., Mon-Sat, single shift	3 days

Per Plant – Network Switch Upgrade (Optional Scope)	Working Schedule	Duration
Installation & checkout of new Cisco switches	12 hrs./day, 6 days/wk., Mon-Sat, single shift	1 day

The final schedule is to be determined after customer kickoff meeting.

Site Services Schedule Limitation

The Seller's Services Schedule is based on the following assumptions/clarifications.

a) Seller Holidays, standby time or second/night shift work are not included.

b) The Seller's onsite time includes up to a maximum of two (2) hours of site access/safety orientation training for the Seller's personnel and craft labor. This training i) does not include additional mobilizations, ii) is assumed to occur on the plant site and iii) immediately upon arrival/initial mobilization (No special offsite training requirements). Site safety/access training outside these guidelines will be billed to the Buyer/End-User, as a change order, per the Seller's Standard Services Rate Schedule (Tier 5 Services Rates) in affect at the time of the work.

c) Customer shall be responsible for the proper Lockout/Tagout of the equipment prior to the start of the installation activities on the Mark VI controllers & HMIs. Seller has included a maximum of four (4) hours per Block, for the Lockout/Tagout activities to be included in the base project scope for the Seller's Field Engineer(s). Additional hours required to complete the LOTO may be considered as a delay and be billed at the Seller's Standard Services Rate Schedule (Tier 5 Services Rates) in affect at the time of the work.

d) Seller has allocated one (1), 12-hour day per Block, to perform the Start-up support and final Commissioning of the new HMIs & Mark VIe controls. Any customer delays associated with permits, equipment failures, other plant activities, additional customer requested tests, etc. will be billed as an

extra cost at the current Seller's Standard Services Rate Schedule (Tier 5 Services Rates) in affect at the time of the work.

e) Assumes that the Block 7 and Block 8 Mark VI to Mark VIe Migrations, HMI upgrades and Water Wash modifications will be performed concurrently during the same outage.

f) Assumes the Optional Network Switch upgrades, if accepted, will be performed at the same time as the Mark VI to VIe Migrations and HMI upgrades.

g) Assumes work scope can be accomplished in an uninterrupted and sequential fashion according to the schedule above.

h) The Seller has included a fixed quantity of onsite time to perform the installation. These fixed quantities are based on the Seller's past experience for similar installations on similar equipment and recognize the Buyer/End-User's outage schedule. The Buyer/End-user shall be responsible for properly staffing the installation & commissioning such that the activities below fit within the Seller's site services schedule.

i) Additional trips or onsite time not specifically identified i) in the Schedule, ii) in this proposal document or iii) not agreed to between the parties, prior to providing the additional services, will be billed to the Buyer/End-User, as a change order to the contract/purchase order, per the Seller's Standard Services Rate Schedule (Tier 5 Services Rates) in affect at the time of the work.

j) Delays in the performance of work beyond the reasonable control of Seller, or delays caused by acts of the Buyer/End-User or prerequisite work by others, shall entitle Seller to an adjustment of time and price for completion of their work and expenses resulting therefrom.

k) Scope or schedule changes related to these limitations will be billed to the Buyer/End-User, as a change order, per the Seller's Standard Services Rate Schedule (Tier 5 Services Rates) in effect at the time of the work.

l) Safety is always a priority for GEII and our customers. To ensure safe and alert personnel, GEII's EHS policy requires a rest period of 36 consecutive hours every 19 consecutive days worked. Therefore, GEII will implement one rest day for all GEII personnel on site, at a 19-day interval, if working seven-day weeks. Our base offering does not include any extra personnel to cover work activities during the required rest period. If required/requested, GEII can accommodate alternative schedules by adding personnel to site, which will be billed as an extra, using the mutually agreed to change order process.

Terms and Conditions

Pursuant to the terms and conditions of the Long Term Parts & Long Term Service Contract between JEA and General Electric International, Inc. signed on June 26, 2000 (the "Agreement") and amended thereafter.

Accordingly, except as expressly set forth herein, this Proposal is subject to the terms and conditions of the Agreement and such terms and conditions shall apply without limitation, as if fully set forth herein. Unless otherwise defined herein, all capitalized terms used in this Proposal shall have the same meaning given to them in the Agreement.

Any additional or different terms and conditions set forth in any proposal or communication by or from JEA are expressly objected to and will not be binding upon Contractor unless specifically agreed in writing by an authorized agent of Contractor.

COVID-19 VIRUS: The parties acknowledge that the COVID-19 epidemic and government actions in response to it have affected and will continue to affect Seller's ability to deliver goods and services around the world (the "COVID-19 Impact"). In the event that the COVID-19 Impact affects Seller's ability to deliver on time or at the bid

price, Seller shall be entitled to an equitable adjustment in schedule and price as appropriate, subject to Seller's obligation to work in good faith with Buyer to mitigate the impact on schedule and/or cost.

Invoicing Schedule

Our proposal is based upon the following invoicing schedule:

Invoicing Milestone	Invoice Amount
Seller Acknowledgement of PO and Kickoff Meeting	20%
Submittal of Eng. Designs	15%
Delivery (Per Contract Delivery Term)	45%
Services - Mobilization	10%
Services - De-Mobilization	10%
Total	100.00%

Termination Schedule

For Contracts not utilizing the Seller's standard Termination Article, the following termination for convenience table shall apply:

Weeks from order date:	% of Contract Price
< 2	20%
< 6	60%
< 8	85%
> 8	100%

Payment Terms

Our Firm Fixed Proposal is based upon the following invoicing schedule and terms:

a. Payment Terms are Net 30 days
b. Pricing is in United States Dollars (USD)

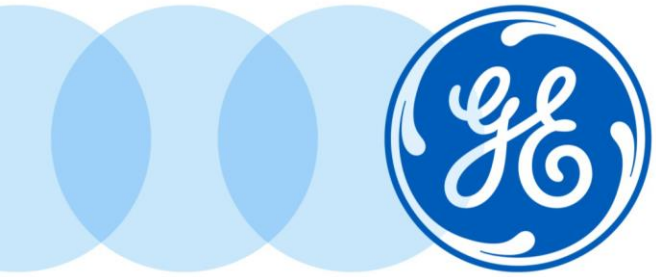
Firm Fixed Price Quotation

for

JEA Kennedy

for

HMI Upgrade



General Electric International, Inc.
Proposal Number: 1559900 Rev 1
Account Manager: David Duncan
Date: October 26, 2021

Table of Contents

Proprietary Statement

This entire proposal and the correspondence and communications concerning this proposal collectively the "**Proposal**" developed by **Power Services** (hereinafter to referred as *GE)*, is the property of **GE International, Inc. (GEII),** a wholly owned subsidiary of **General Electric Company** and provided to **JEA** (hereinafter to referred as *Customer*) are the property of GE.

This quotation document is proprietary to GEII and is furnished in confidence solely for use in considering the merits of the quotation and for no other direct or indirect use. By accepting this document from GEII, the recipient agrees:

- To use this document, and the information it contains, exclusively for the above stated purpose and to avoid use of the information for performance of the proposed work by the recipient or disclosure of the information to, and use by, competitors of GEII on behalf of the recipient.
- To avoid publication or other unrestricted disclosure of this document or the information it contains.
- To make no copies of any part thereof without the prior written permission of GEII.
- To return this document when it is no longer needed for the purpose for which furnished, or upon request of GEII.

Executive Summary

Overview

General Electric International, Inc. is pleased to submit this Firm Fixed proposal to JEA for the JEA Kennedy HMI Upgrade as a stand-alone project, prior to the planned Mark VIe control upgrades.

The Seller's latest HMI technology provides the most current software and hardware technology available from the Seller for the turbine control operator interface. The latest software packages provide improved features and protection functions as compared to previous versions.

Current HMIs being built today are Windows 10 IOT Enterprise operating system and the HMIs have CIMPLICITY* Advanced Viewer. All original HMIs on the same network must be upgraded at the same time to allow proper interface between the equipment and the software packages.

The benefits of this retrofit include:

a. Industry standard operating system and software.
b. Integration of various systems and devices (as needed) to reduce resources required for operating and maintaining the units.
c. CIMPLICITY Graphical User Interface (GUI) software on HMIs is for industrial controls.
d. Solid State hard drives for increased uptime on some PC models.

This project will consist of replacing 7 HMI operator interface PC(s) at the JEA Kennedy plant with new HMIs located in the same locations with similar functionality.

As part of the upgrades and enhancements, the Seller is offering the following;

a. Upgrade the existing Commercial Tower Server HMI(s).
b. Upgrades to the Mark processor and firmware / software will also be provided as required.
c. Field Service to install and commission the new HMIs.
d. Cyber Engineering Services to Configure New devices into existing SecurityST System.

Base Scope of Supply

Bill of Material

The base scope of material and work detailed in the proposal will be as follows:

Qty.	Description
7	**Commercial Grade for HMI upgrade: PC details are typical. Seller will provide an HMI that meets the specific requirements of the project, details of which will be provided during project execution:** Commercial Grade Tower: a. Windows 10 IOT Enterprise (64bit) with ControlST V07.xx.xx (or newer approved version) and Cimplicity 11 Advance Viewer (or newer approved version) b. Tower - H: 17.0" x W: 6.65" x D: 17.5" c. Xeon® Processor E5-1620 v3 Quad Core 10M Cache, 3.50 GHz d. QTY two 256GB SATA Solid State Drives – first for Operating System, Second for Data e. NVIDIA Quadro P620 2GB Graphics Card (4 mDP output) f. 32 GB RAM Memory g. External Speakers h. 10 External USB Ports i. 1 RS-232 Serial Port j. PS/2 Ports k. Dual UDH/PDH (4) RJ45 Ethernet Ports l. DVD +-RW m. 1 – PCIe Slot Available for Optional Card n. 1 - PCI Slot Available for Optional Cards o. Keyboard (USB) p. Mouse (USB) q. Auto Sensing 700W Power Supply (110-220 VAC, 50-60 Hz-90% Efficient Power Supply) r. Temp rating: Operating: 5° to 35° C (40° to 95° F) / Non-operating: -40° to 60° C (-40° to 140° F) s. Humidity: Operating: 8% to 85% Relative Humidity, Non-condensing / Non-operating: 8% to 90% Relative Humidity, Non-condensing
Per site	An equipment network topology (4108 drawing) in support of an HMI upgrade. The topology provided would be based on the current site information that is provided to the Seller from the Buyer.
Per HMI	Widescreen Engineering
Per HMI	Audible Alarm on the HMI - Software Activation
Per Powered Device	Power Cords Supplied per Powered Device for use in the USA and Canada
12	**FLASH MEMORY CARDS** • 128mb Flash Card to Update UCVE/F with Larger Flash • Required to Replace the Existing Flash Memory on each UCVE Card (Three per MARK VI Panel) • Required to Accommodate the new ControlST CD Software
1 Lot	**Integration into existing SecurityST System**

HMIs Proposed Changes/Solution

This project will consist of replacing 7 HMI operator interface PC(s) at the JEA Kennedy plant with new HMIs located in the same locations with similar functionality.

The final configuration of the new HMIs cannot be accomplished in the factory. The final site-specific configuration will be completed during installation. It is recommended that the Seller's field service employees perform the installing and system/controller configuration to maintain system integrity and robustness.

New ControlST site software is included with the HMI as part of the base scope offering. Installation of the controller software based on the upgrade is included as part of the installation activities. Turbine controller/ Plant-wide DCS controller system shutdown and reboot will be required to upgrade the ControlST software/ firmware.

HMI System Architecture

HMIs will be supplied in the quantities and with the functionality described in words and in the configuration tables below. No changes to the existing UDH/PDH networks link are provided.

Proposed HMI Capability Table

TURBINE UNIT #	K_GT7_SVR	K_GT8_SVR	K_CRM1_SVR	K_CRM2_SVR_R	K_CRM3_SVR
G7	**Server**	**Server**	**Server**	**Server**	**Server**
G8			**Server**	**Server**	**Server**
S7 (BoP)	**Server**	**Server**	**Server**	**Server**	**Server**
S8 (BoP)			**Server**	**Server**	**Server**
PC Style	Commercial	Commercial	Commercial	Commercial	Commercial
PC orientation	Tower	Tower	Tower	Tower	Tower
Widescreen Formatting	Yes	Yes	Yes	Yes	Yes
Audible Alarm with Speakers	Yes	Yes	Yes	Yes	Yes

TURBINE UNIT #	K_CRM4_SVR	K_K8_SVR
G7	**Server**	**Server**
G8	**Server**	**Server**
S7 (BoP)	**Server**	**Server**
S8 (BoP)	**Server**	**Server**
PC Style	Commercial	Commercial
PC orientation	Tower	Tower
Widescreen Formatting	Yes	Yes
Audible Alarm with Speakers	Yes	Yes

SWAT (Software Acceptance Test) Longmont, CO or Via Skype	**One Day SWAT with no Simulation**

Proposed HMI External Communication

Our base offering includes an Ethernet Modbus protocol interface to other customer equipment. We propose to reapply the same point list that is currently in use for applications.

Seller will not modify the Buyer supplied external equipment/foreign devices or other sub-systems for communication interface with the Mark VIe. Buyer/End-User is responsible for any additional hardware or programming required for the interfacing of Seller supplied equipment to Buyer/End-User supplied external equipment/foreign devices. The Seller expects the Buyer, or his vendor will be needed to help with the communication on his Equipment. The Seller will work on their equipment to help support commissioning the communication link(s).

Engineering Design, Testing and Meetings

As part of the project, the Sellers Engineering Design will include the following:

a. Controls Software – Firmware upgrade only; as needed to support the HMI Upgrade. Changes to the sequencing and fuel control logic are not performed and will remain as it exists at the time of collecting the As-Running software files.
b. Development of HMI Operator Graphic Screens (per Seller standard design).
c. Create or update the network topology drawing (aka the 4108 drawing).
d. **Kickoff Meeting:** A Buyer/Seller kickoff meeting will be held per conference call. Attendees from the Seller's team will include, at a minimum, the project manager and a project engineer. During the phone conference kickoff meeting, the project scope and schedule will be reviewed and agreed upon between the parties.
e. **Software Witness Acceptance Test (SWAT):** The SWAT is a one (1)-day customer review at the Seller's Facility or via Skype. The site-specific software is loaded onto the new HMIs and Historian in the lab. For the customer's review, the operator screens are reviewed. During the SWAT, there is data displayed on the screens but there is not true turbine operation simulation and therefore the data is not correlated to real turbine operation on the screens. The layout of each screen and its data points can be reviewed as well as the location of control buttons, menu selections, alarm page, etc. The functionality of the Historian will also be proven. During the SWAT, an acceptance document will be used to document the review.
f. Integration with (Switches, Historian, SecurityST, etc.)
g. Communications to other buyer's device includes an Ethernet Modbus protocol interface to another buyer's equipment. We propose to reapply the same point list that is currently in use for applications.

Documentation

Unless otherwise indicated, all electronic (softcopy) and hardcopy documentation, control screens, panel labels and wiring identification will be provided in the English language only. The Seller will provide the following product documentation in quantities and media type listed below.

Electronic Media Documentation

One (1) softcopy of the project documentation will be provided on a CD-ROM. The file types will be Adobe Acrobat PDF or the native file type received by the Seller's third party vendor supplying its documents.

Hardcopy Media Documentation

Note that HMI only projects will not include hardcopy documentation.

Documentation List

The following table shows the description of the project documentation that the Seller will be providing as part of the deliverables for the contract.

	Document Description
Item	**Generic List**
1	ToolboxST Guide for the WorkstationST Application
2	Instruction Manuals/Publications, including Maintenance and User Guides; Ex: GEH, GEK
Item	**Application Specific List**
3	Network Topology Diagram
4	SWAT Report

Installation Site Services

Site Services Division of Responsibility

This DOR (Division of Responsibility) represents the responsibilities for projects where the Seller is providing only a field engineer(s) to support the installation of the Seller supplied equipment.

Legend: B=Buyer, E=End-user, S=Seller

Item	Description	Responsibility	Comments
1	Labor and material shall be supplied in sufficient quantity and capability such that the installation and startup of the Seller supplied equipment scope can be completed within the schedule identified herein.	B/E	
2	Provide all required installation tools and materials	B/E	
3	Provide any specialized test equipment, if required	B/E	
4	Schedule and manage allotted hours for best utilization in overall project schedule. Additional hours or wait time will be considered extra work.	B/E	
5	Provide qualified personnel for instrument calibration, and to assist Seller's personnel in checkout and commissioning of the new equipment.	B/E	
6	Provide qualified personnel and proper test equipment for the setup and commissioning of any specialty protective relays and/or equipment (such as Multilin, SEL, Beckwith, etc.), if supplied.	B/E	
7	Provide qualified operators for duration of start-up commissioning.	B/E	
8	Buyer/End-user shall provide a desk or workspace for Seller's Controls Specialist to work and a telephone with outside plant access. Access to Site facilities such as washrooms, toilets, drinking water, etc. shall be provided.	B/E	
9	Checkout of the communications to a DCS or other site devices will include only basic assurance that separate modes are functional. Complete point-to-point testing can be provided at additional cost. Operational control will be tested and commissioned only from the Seller HMI's.	S	
10	Includes installation of base scope only. Installation and commissioning of options and/or additional hardware, software, functionality, TILs, etc. (unless specified) will be evaluated for a change in scope, and the site services price will be adjusted accordingly.	S	
11	Lock Out Tag Out ("LOTO") of all equipment related to Seller's work, prior mobilization.	B/E	Seller to verify
12	Health, Safety, Emergency Response and Security Procedures.	B/E	
13	Regulatory Requirements and permits (Air, welding, work, etc.).	B/E	
14	Temporary Utilities (electric, light, air, water, phone, fax and internet).	B/E	
15	Provide Seller's personnel with: Office space, telephone access, internet access, sanitary facilities, drinking water, parking etc.	B/E	
16	First Aid facilities	B/E	
17	Manage and direct all craft labor working on the project. Seller personnel will act in an advisory position only.	B/E	

Proposal Basis and Buyer Responsibilities

This section lists those items which are provided by the Buyer or End-User and not part of the Seller's scope of supply. It also lists the Seller's assumptions, comments to Buyer/End-user's requirements, and the breakdown of Buyer/End-User responsibilities.

General Assumptions and Clarifications

Below represents the Seller's Clarifications, Assumptions and Exceptions related to the Seller supplied equipment and services.

a. Seller believes that this proposal/quote meets the intent of the Buyer/End-User's request and will be the document of reference in any resulting contract.
b. Seller assumes multiple units onsite (included in this proposal) are similar except for the Unit number designators and tag names as they relate to the Seller supplied equipment (Hardware, Software), engineering, documentation and control logic functionality. IE: Pricing for unique hardware, software or engineering is not included, when the scope of work is applied to multiple units onsite, which are assumed to be similar.
c. Firewall and Routing changes are not part of the Seller's scope. They are expected to be performed by the Buyer prior to the Seller's arrival.
d. Unless specifically identified in this proposal, the Seller is not supplying any cables (copper, Ethernet, or fiber optic), networking equipment, field devices, instrumentation, cabinets, housings, solenoids, actuation devices, or installation materials.
e. It is assumed that any existing equipment, including but not limited to cabling, wiring, sensors, field devices, terminal boards, communication networks, etc., that are not being replaced as part of this work scope are in a good working order. Replacement of non-functioning or faulty equipment is not included in the scope of this document, unless otherwise specified. If a site survey and Seller's engineering results in the need for additional equipment, cabling and field devices, this will result in a contract change order where pricing and delivery cycle relief will be afforded to the Seller.
f. All machine components are in satisfactory condition and will operate with the new controls. This includes, but is not limited to, the existing metering, generator protection/control, lubrication, cooling, gas, fuel, steam and hydraulics systems.
g. If an RFQ or technical specification is presented by the Buyer/End-User during the project's execution (contract term), that were not initially brought to the attention of the Seller during the proposal development stage and said specifications/requirements subsequently increase the cost of the project for the Seller, this will be treated as a Contract Change Order and billed accordingly.
h. Seller reserves the right to substitute suitable and equivalent third-party hardware in place of those proposed, should such items become obsolete prior to final delivery of those products. If during the warranty period, a third-party hardware item becomes defective and requires replacement, such item may be replaced by a substitute item if the third-party item has been obsoleted. Buyer/End-User shall receive notification of substitution prior to shipment of the items.
i. When existing cabinetry is being reused, the Buyer/End-User shall be responsible for the condition and suitability of same to house the Seller supplied equipment, maintaining NEMA, EMI and RFI requirements, as an example.
j. No provisions for a separate, integrated FAT or communication testing with a foreign device or other sub-systems (DCS, SCADA, Historian, etc.) are included in this proposal. Simple communication testing with Buyer/End-User's foreign devices or other sub-systems can be conducted and verified by the Seller's field engineer carrying out the commissioning onsite. Should Buyer/End-User decide to have a separate communication test with other systems at Buyer/End-User's facility, Seller will provide a quotation upon Buyer's/End-User's request and detailed definition.
k. No modifications to any Buyer/End-User DCS or third-party equipment are included in this proposal. The new Seller supplied equipment may require modification to DCS signals to maintain compatibility. Modification of these DCS signals is the responsibility of Buyer/End-User.
l. Relevant OEM Technical Information Letters ("TIL") related to equipment being provided, have been performed.
m. Buyer/End-User is responsible to adhere to the timetable of critical project data exchange and execution milestones as identified in the detailed project schedule agreed to at the kick-off meeting.
n. As the project, must incorporate Buyer/End-User specific requirements, Buyer/End-User must support all project activities.
    i. Support Site kick-off meeting, site visits, design reviews, status meetings, etc.
    ii. Participate in Buyer/End-User Witnessed Factory (if included) and Site Acceptance Tests
    iii. Respond to Seller inquiries and requests for documentation in a timely manner.

iv. Direct all communications through Seller's assigned Project Manager.
v. Document, in writing, approvals for all change orders.

o. The HMI hardware and software package is tested as an integrated system. Extensive qualification and verification is performed to ensure compatibility of the hardware and software components. For warranty and support reasons removal of any of the Seller provided software or addition of any third-party software packages/hardware packages (not previously approved by the Seller) will result in Seller's inability service and maintain the equipment and will void Seller's warranty on these products.
p. Formal training on the new equipment is not included.
q. Seller does not support connecting different Cimplicity versions of HMIs to the same network. The older versions of HMI can be identified by the version of CIMPLICITY present on the HMI. It will be either "3.22", "4.01", "5.5", "6.1", "7.5", "8.2", "9.0" or "9.5". There are major configuration differences between HMI versions, creating a high potential for corruption of the HMI core-load by manipulating multiple versions at the same time. There is also a potential for unforeseen conflicts, which Seller has not fully documented or discovered. Any issues created by intermixing different CIMPLICITY version HMIs, will be treated as out of warranty expenses. Support can be made available at site to restore HMIs using customer/site generated backup media and this assistance will be billed on a time and material basis.
r. Monitors:
    i. The HMIs and Historians are quoted without a monitor assuming you might reapply your existing monitors. However, Seller does not guarantee that the existing monitors will work with the new HMIs and Historians.
    ii. The Seller cannot guarantee that Buyer/End-User supplied monitors will function properly. While standard VGA monitors typical will work properly, the Seller can only support those monitors supplied by themselves.
    iii. Optional Dual/Quad Monitor functionality allows the operator to view a turbine unit screen on one monitor and the alarm screen on the second monitor but does not have the ability to view a turbine unit screen on one monitor and different turbine unit screen on the second monitor without special configuration at site.
s. Printers
    i. Existing dot matrix printers may be reused for alarm printing, if compatible with Windows 10 OS (see Windows 7/10 64-bit assumption below). New printers may be offered as options.
    ii. Existing dot matrix printers may require a parallel port to tie to the HMI/Historian.
    iii. The Windows 7/10 64-bit operating system provided with the HMI/Historian products may not be able to interface to some existing devices currently used at site. For example, existing printers may not have Windows 7/10 64-bit compatible drivers to allow them to be used. Researching the existing peripheral devices in use at site to determine if Windows 7/10 64-bit drivers are available for updating these devices is not included in this quotation. The Seller can offer Optional new printers/devices that are compatible with the Windows 7/10 64-bit operating system.
t. Screen Format:
    i. The Seller HMI CIMPLICITY screens are supplied as Widescreen ratio. Therefore, if a non-widescreen monitor is used with the HMI there will be "blank bars" on the top and bottom sides of the screen when displayed. The Seller can provide an optional price to provide monitors that would fill the widescreen presentation.

Application/ Product Specific Buyer/ End-user Responsibilities

The following represents the Buyer/End-user responsibilities which are specific to the product being supplied by the Seller.

HMI

a. Site information/data related to the current HMI installation. This data will be required prior to order acknowledgement and prior to the Seller building/designing the new system. This data will also be used to update the Network Topology (4108) drawing associated with this site/installation. The Site data shall include:
    i. Existing as-running topology drawings: The Seller assumes that a 4108 Network Topology drawing is available today. The Seller has included the cost to create a new 4108 Drawing.
    ii. Other Network Information; Include any devices, communications and other items that are not shown on the current topology drawings.

iii. As Running software (must run software gathering tool). It is important that current data be collected from the equipment to avoid issues with the new equipment not arriving with current control constants, unit software updates or screen updates. The Buyer/End-user is responsible for additional engineering or installation time required to update outdated information after it is originally supplied.
iv. If the Buyer/End-user cannot provide the Seller with the above site data, the Seller will be obligated to retrieve the data. All time and related expenses associated with collecting the site information/data will be billed to the Buyer/End-User at actuals, per the Seller's Standard Services Rate Schedule in effect at the time of the work.

b. Considerations for the purchase of new or additional network switches: The Buyer/End-User will be required to install and verify new Ethernet cabling prior to the arrival of the Seller's field engineer.
c. Services pricing included assumes all units/machines associated with this HMI upgrade will be offline concurrently.
d. New HMIs are supplied with sufficient NIC (Network Interface Card) ports to support dual PDH. This does not imply that the new or existing site network is a redundant PDH network.
e. The current screens and alarms will be copied to the new HMIs. This proposal does not include a change in language or additional screens being added. Significant customization of screens may require additional engineering time and hence a change in pricing.
f. If there is an existing OSM (Onsite monitor) computer at site, and it is interfaced with the HMI being upgraded as part of this proposal, the Seller will need to be made aware of this condition. If so, the Seller must then include modification to the HMI to allow for it to interface with OSM computer. The Seller has not included scope/price to interface the HMI with any OSM computer.
g. If the existing equipment onsite incorporates GE's DLN Remote Tuning option, then the Seller project manager (for the HMI job) and the DLN contract manager will need to be made aware of this condition. It is the requirement of the Buyer/End-user to make the Seller aware of this condition at the time the Purchase Order is placed. Support for the DLN tuning application and possible changes to this service may be required.
h. In an application where a GE FANUC PLC, whether originally installed by GE or installed by others, communicates with the GE HMI equipment, any upgrades that may be required to these PLC's to allow them to continue to communicate with the new GE HMIs being installed are not included in this quote. Please contact your local GE FANUC PLC representative to discuss if updates will be required to allow communication with the new GE HMIs.

Documentation Related Buyer/End-User Responsibilities

a. Except where stated herein, all documentation and computer screens will be in English.
b. It is assumed the Seller will be furnished recorded baseline operational and performance data no later than two weeks after receipt of an acceptable Purchase Order. If data was recorded longer than six (6) months before receipt of a Purchase Order, updated/recent data will need to be capture and provided to the Seller. The data should demonstrate successful starting, loading, base load and peak load (if applicable) operation.
c. Overall project cycle time is dependent upon receipt of current "Site data". It is Buyer/End-user's responsibility to provide the relevant Site Data in a timely manner. Seller's Project Manager will be assigned after receipt of order and will provide instructions for the download and transfer of site data as necessary. Site services to obtain the site data are not included in this offering but can be provided for an additional cost. Site Data includes, but is not limited to, 1) as running software and 2) design/engineering/P&ID drawings.
d. If this Site Data is not provided within two weeks upon placement of order, the possibility exists that the hardware/software may be engineered using default, generic data and a delay in delivery and/or an extended startup time may result.
e. Unless explicitly identified above, Seller is not supplying interconnect wiring or loop diagrams.
f. This proposal does not include Plant Operation manual updates, or any other site documentation modifications.

Commercial

Price Summary

The price for the offering is Firm Fixed for the scope of work in the proposal.

Base Scope Summary

Description	Price	Currency
Base Project: • Qty 7 Commercial HMIs; Hardware, Software and Engineering Included. • SecurityST System integration of new devices. • Software Acceptance Test (SWAT) in Longmont, CO or via Skype.	$182,117	USD
Field Engineering Services • 1 HMI Field Engineer for 7 days; Includes 2 travel days and all Travel and Living. • 1 Cyber Field Engineer for 3 days; Includes 2 travel days and all Travel and Living.	$47,542	USD
Total Project Price	**$229,659**	**USD**

Optional Scope Summary

Description	Price	Currency
Spare 256GB SATA solid state hard drive. For use to replace a hard drive in the Commercial HMI configuration **Per Hard Drive**	$994	USD
Collection of as-running site software from existing HMIs.	By JEA or T&M if requested from Seller	USD

The above prices are in US dollars, and do not include taxes or duties.

Pricing Limitations and Considerations

a. Unless otherwise indicated, the prices quoted herein are valid for the delivery of equipment in **2022** and performance of services in **2022**. Delivery of equipment or performance of services in years subsequent to these shall be subject to a price escalation fee equal to 4% per year of the contract price for the undelivered equipment or un-performed services.
b. Prices quoted are based on the Assumptions and Clarifications as described in the Proposal Basis Section and performed per the Terms and Conditions referenced or provided herein.
c. Seller reserves the right to review and re-quote this job if there is a discrepancy between this proposal and the purchase order. If Seller receives a specification between the issuance date of this proposal and receipt of the purchase order, Seller reserves the right to re-evaluate this proposal.
d. Seller will evaluate changes to the specification, drawings, services or existing equipment. Seller will evaluate if these changes constitute a change in the quoted work scope or schedule. Seller will quote the changes and a change order must be received before work is to proceed.
e. The pricing breakouts outlined in this proposal are for accounting purposes only and are not to be considered as standalone prices.
f. The prices quoted herein exclude taxes or other regulatory fees.
g. The prices quoted herein exclude include duties.
h. The prices quoted herein exclude include import customs.
i. Travel and Lodging/Living ("T&L") expenses for Site Services are included.

Proposal Validity

Prices quoted herein are firm and valid for 30 days. GE reserves the right to modify prices herein for work ordered after that date. This proposal is subject to change upon notice prior to order.

Payment Terms

Payment will be due in U.S. Dollars no later than 30 days from receipt of Seller's invoice without any setoff (including, without limitation, setoff under other contracts with Seller or with General Electric Company or its affiliates). These terms will take precedence over any conflicting payment terms referenced.

Payment Schedule

GE proposes the Payment schedule below. The first payment shall be due immediately upon receipt of Purchase Order.

Milestone	Amount (% of Contract)
Order Receipt	50%
Order Complete	50%

Terms and Conditions

Pursuant to the terms and conditions of the Long Term Parts & Long Term Service Contract between JEA and General Electric International, Inc. signed on June 26, 2000 (the "Agreement") and amended thereafter.

Accordingly, except as expressly set forth herein, this Proposal is subject to the terms and conditions of the Agreement and such terms and conditions shall apply without limitation, as if fully set forth herein. Unless otherwise defined herein, all capitalized terms used in this Proposal shall have the same meaning given to them in the Agreement.

Any additional or different terms and conditions set forth in any proposal or communication by or from JEA are expressly objected to and will not be binding upon Contractor unless specifically agreed in writing by an authorized agent of Contractor.

COVID-19 VIRUS: The parties acknowledge that the COVID-19 epidemic and government actions in response to it have affected and will continue to affect Seller's ability to deliver goods and services around the world (the "COVID-19 Impact"). In the event that the COVID-19 Impact affects Seller's ability to deliver on time or at the bid price, , Seller shall be entitled to an equitable adjustment in schedule and price as appropriate, subject to Seller's obligation to work in good faith with Buyer to mitigate the impact on schedule and/or cost.

Schedule

Equipment (Hardware and Software) Schedule

The After Receipt of Order ("ARO") date will be the date that the Seller **acknowledges** the Purchase Order, not the initial date that the Seller receives that PO.

The estimated timescale from acknowledgement of PO/contract to the Delivery (Incoterms) of the equipment is **18 weeks** and is based on current factory loading and lead times offered by the Seller and other vendors, if any.

Notwithstanding anything else, Seller shall not have any liability for delays resulting directly from governmental actions, supply chain shortages, or any other consequences attributable to the widespread impact of the pandemic known as Covid-19 or other similar strains or Coronavirus pandemics.

Equipment Schedule Limitations

Delivery dates can vary depending on factory workload and should be confirmed before issue of order. Delays in receiving vital information from the Buyer/End-User or delays in receiving "review" drawings back from the Buyer/End-User will impact the ARO delivery dates. These delays may result in a day for day slip in the delivery schedule or a complete shift the delivery dates indicated herein.

When detailed drawings representing the Buyer/End-user's current (as-running), installed equipment cannot be made available to the Seller, it is critical that the Seller has sufficient time and physical access to the Buyer/End-user's equipment while in a Lock-out/Tag-out condition. This will allow the Seller to take measurements, design, manufacture, and **Field Fit** these portions of the total scope of supply. Some examples of this may include fuel valve/actuator/solenoid mounting plates, blanking plates, speed probe brackets, etc.

Seller's proposed schedule with milestone dates will be presented at the Project Kick-Off Meeting. This project schedule will illustrate the various activities from purchase order/contract receipt, through design, manufacture, testing, shipment and site services (if in work scope).

The overall price and cycle quoted herein requires full cooperation between the Seller and the Buyer/End-User, and adherence to key milestones dates specified as part of a project implementation plan. The specific milestone dates will normally be set during the Project kick-off meeting and will normally include, but may not be limited to, the following key project control points.

a. Project Kick-Off Meeting (Buyer/End-user and Seller)
b. Site survey and/or supply of applicable site data (Buyer/End-user and Seller)
    i. Site data (Buyer/End-user)
    ii. Drawings and documentation (Buyer/End-user)
    iii. Logistics Data (Buyer/End-user and Seller)
c. Drawing submittals (Seller)
d. Design review and approval (Buyer/End-user)
e. Design freeze (Buyer/End-user and Seller)
f. Factory acceptance test/Buyer witness test (Buyer/End-user and Seller)
g. Supply of documentation for shipment (Buyer/End-user)
h. Support commissioning, start-up, site acceptance testing and handoff (Buyer/End-user and Seller)
i. Delivery of documentation (Seller)

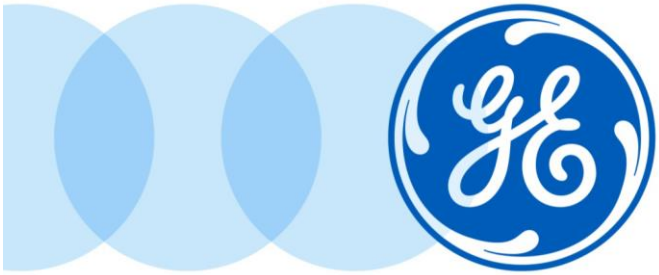
Unless otherwise agreed upon in advance, the work shall be executed in an uninterrupted and sequential fashion. If the work is interrupted by or for the convenience of the Buyer/End-user, or cannot be performed according to the schedule, the Seller has the right to submit a change order for incremental charges (for example multiple site trips or additional design review cycles, etc.). The Buyer/End-user shall be provided drawings of sufficient quality and thoroughness early in the project and be given one review cycle, to submit comments and request changes. The review cycle is typically three weeks long but depends on the project schedule and will be reviewed and agreed upon at the Kick Off Meeting. After the review cycle the design will be considered frozen and the cost and schedule impact of requested changes will increase.

Site Services Schedule Limitations

The Seller's Services Schedule is based on the following:

a. Seller's Holidays, standby time or second/night shift work are not included, unless indicated otherwise.
b. The Seller's onsite time includes ***up to a maximum of two (2) hours*** of site access/safety orientation training for the Seller's personnel. Site safety or access training which exceeds this allotment will be billed to the Buyer/End-User, as a change order, per the Seller's Standard Services Rate Schedule Tier 5 (Critical Services Rates) in effect at the time of the work.
c. Assumes work scope can be accomplished in an uninterrupted and sequential fashion per the agreed upon schedule.
d. The Seller has included a fixed quantity of onsite time (and trip/s to site) to perform the site services work. These fixed quantities are based on the Seller's past experience for similar Work scope and installations on similar equipment and recognizes the Buyer/End-User's outage schedule.
e. Additional trips or onsite time not specifically identified i) above, ii) in this proposal or iii) not agreed to between the parties, prior to providing the additional services, will be billed to the Buyer/End-User, as a change order to the contract/purchase order, per the Seller's Standard Services Rate Schedule Tier 5 (Critical Services Rates) in effect at the time of the work
f. Delays in the performance of work beyond the reasonable control of Seller, or delays caused by acts of the Buyer or prerequisite work by others, shall entitle Seller to an adjustment of time and price for completion of its work and expenses resulting therefrom.
g. To ensure safe and alert personnel, the Seller's EHS policy requires a rest period of 36 consecutive hours every 19 days. As such, Seller's schedule will implement one rest day for all personnel on site, at a minimum 19-day interval. By adding a lay-over day, our base offering does not include extra personnel for the rest period; safety is always a priority with both Seller and our Buyer/End-users. Seller can accommodate alternative schedules by adding personnel to site, these alternate schedules will be billed as an extra charge using the mutually agreed to change order process.
h. The Seller will provide a field engineer to perform the following related to the HMI upgrade. These tasks will be performed on a per HMI basis;
    - HMI Client setup
    - Power up verification
    - Software installation, setup and verification
    - SecurityST integration of new devices
i. In general, the Seller includes one (1) each ten (10) hour work day per HMI for the onsite work. A week at site is defined as Monday – Saturday on non-Holiday weeks. Additionally, the Seller includes two (2) each eight (8) hour days for travel to/from the jobsite. For projects with up to four (4) expected days at site the Seller will travel to site on Monday, start performing the services on Tuesday and travel home on or before Saturday. Sites/installations with greater than six (6) days at site or five (5) days if not working Saturdays will result in carry-over time for the non-worked weekend. Carry-over time is included in the pricing.

Fixed Price Quotation for JEA Kennedy
for
EX2100e Digital Front End Excitation System Retrofit
EX2100e DFEs for GE EX2000/EX2100 77mm WBU
and
LCI Static Start System Retrofit
LS2100e Digital Front-End for ISC/LS2100 LCIs



General Electric International, Inc.

Proposal Number: 1561121 Rev 1

Account Manager: David Duncan

Date: October 26, 2021

Table of Contents

1 Executive Summary

GE is pleased to provide Buyer this Firm Price proposal to furnish, install, commission and startup an upgrade to the existing EX2000 J frame HBU and EX2100 77mm WBU exciters and also the Innovation Series, LS2100 LCIs on the Gas Turbine-Generators (S/N 337X072, 337X416) at the JEA Kennedy Station on Units 7,8.

The new EX2100e DFEs will replace the existing exciter controls and will be placed in the EX2000/EX2100 lineups.

The new LS2100e DFEs will replace the existing static start controls and will be placed in the Innovation Series and LS2100 LCI lineups. The existing 2 on 2 Static Starter configuration will remain as currently configured.

All control of the new EX2100e exciters and LS2100e LCIs will be done through the new HMIs and UDH network. No provisions for hard-wired control via existing control room switches, meters, etc. is included in this proposal.

Engineering Design Services in the form of a Basic EDP are included in this proposal.

PSS functionality for the EX2100e DFEs has been included in the base of this proposal. Any required PSS study/settings report or any other engineering studies are the Buyer's responsibility. Seller has included an option for a PSS Tuning Study to cover both units.

No FAT or Integrated FAT for the DFEs is included with this proposal.

Site Services for Installation and Commissioning has been included in the base proposal.

This proposal is based on work being performed during an outage in **2022**. Specifics of the items noted in this Executive Summary are provided in the following sections of this proposal.

This proposal includes the following equipment and work scope:

- Qty-2 EX2100e Redundant DFEs w/PSS
- Qty-2 LS2100e DFEs w/crossover
- Qty-4 local keypads (EX/LCI)
- Engineering to interface EX2100e/LS2100e DFEs to existing Excitation/LCI Systems
- Complete EX2100e/LS2100e DFE Installation and Commissioning Services

Optional equipment and services offered in this proposal are:

- Level 3 EX2100e Redundant DFE spare parts
- PSS Tuning Study for GTs
- Qty-2 GraphEX-OI Operator Interface – EX2100e only
- Level 3 LS2100e DFE spare parts
- Onsite Training – EX2100e/LS2100e combined 5-day course

2 Work Scope

The EX2100e Digital Front End controls modernization product provides a structured hardware, software, documentation and service solution to modernize the aging EX2100 controls components. The DFE is a component-based upgrade with the EX2100e controls integrated into modular sub-panels that are installed in the existing EX2100 cabinets. The new controls interface with the existing power conversion component, IO sub-systems and other auxiliary components to create a cost-effective means to move the system onto the same life-cycle as the current production EX2100e, without a full panel retrofit. In addition to the control hardware, the existing system application code will be migrated to the version of GE ControlST being supplied with new EX2100e systems.

The product has been pre-engineered to include standardized installation methods, supervised by Field Engineering resources, and will then be checked out and commissioned per the services scope of supply described later in this document.

2.1 EX2100e Base Work Scope

2.1.1 EX2100e Bill of Materials

The following items are included with the generator control system upgrade:

Description	Qty
EX2100e DFE for GE EX2000 & EX2100 77mm WBU	2
Local Keypad (large)	2
PSS functionality	2
Software Merge	incl.
Complete Installation	incl.
Generation of Manuals	incl.
Requisition Engineering EX2100e DFEs	incl.
Basic Engineering Design Package	incl.
Regional Kick Off Meeting	incl.
**** Option **** Level 3 Spares - EX2100e DFE WBU	
Level 3 Spares, DFE WBU	1 set
**** Option **** PSS Tuning Study	
PSS Tuning Study – GT7, GT8	Lot
**** Option **** GOI - GraphEX-OI	
GraphEX-OI Operator Interface	2
**** Option **** Onsite Training	
Onsite Training - EX2100e and LS2100e 5-day course	1

2.1.2 Application Data

The offered system is based on the data summarized below. Any changes or modifications may affect final design and/or pricing.

General:

- Station Name: JEA Kennedy Station – Gas Turbines - Units 7, 8
- Turbine Type: Combustion Turbine Generator

- New Excitation System: EX2100e DFEs
- Quantity of Units: 2
- Input Frequency (Hz): 60
- Exciter Power Source: Generator Terminals

Environment:
- Maximum Ambient Temperature (º C): 40
- Maximum Altitude (meters): 1000

2.1.3 Control System

The EX2100e DFE will consist of the following control cards and modules:

Legend:
X = Standard, **O** =Option
***** In Control Case, the new EAUX and EXAM circuit boards will be part of the new HVI module

Control Case		
Major Component	**New**	**Reuse**
Lights & Receptacles		**X**
ECTB	**X** (ESYS)	
EPCT	**X** (ESYS)	
PT/CT Disconnect Switches	**X**	
EPDM	**X** (EDIS)	
DACA		**X**
Case Heater		**X**
Control Backplanes	NA	
EXHS	**X** (EAUX) *	
IO Net / VersaMax IO		**X**
ACLE	**X** (UCSx)	
Operator Interface	**O**	
Control Case Door	**X**	
Power Supplies	**X**	
Local Ethernet Switch	**O**	
Field Ground Detector EGDM	**X** (EXAM) *	

Auxiliary Case / Equipment		
Major Component	**New**	**Reuse**
Shaft Voltage Suppressor		**X**
De-Excitation Module		**X**
Field Flashing Module		**X**
High Voltage Interface (HVI)	**X**	
Case Heater		**X**
AC Line Filter		**X**

Bridge Cases		
Major Component	**New**	**Reuse**
SCR Bridges		**X**
Bridge Cooling Fans		**X**
EGPA	**X** (EBRG)	
DC Contactors		**X**
AC Disconnect		**X**

In addition to the control components identified above, the DFE will include all necessary internal interconnecting wiring and harnesses to install the new controls.

A detailed technical description of the EX2100e control system is found in the Technical Description section of this proposal.

2.1.4 Engineering Services

2.1.4.1 Engineering Design Package – Exciter DFE

A DFE upgrade requires minimal changes to the system and relies on standardized work instructions called a Field Modification Instruction ("FMI"). The FMI is an OEM internally controlled document, which is not provided to the Buyer/End-user as part of the documentation package. The FMI is used by the Seller's Controls Engineer as reference to guide the work during the DFE installation. A reduced engineering effort is associated with a DFE upgrade, the bulk of which centers on the interconnection spreadsheet. The following Engineering Design Package support functions are included as part of this proposal:

EDP deliverables:

a) Interconnection spreadsheet (wire transition list)

b) Existing plant/system drawing sheet updates:

   i) Quantity: Up to twenty (20) drawing sheets

   ii) Editing format: Manual hand red-lines

EDP Assumptions:

a) All documentation will be supplied in Seller's standard drawing/documentation format, in English with ANSI notation, in Adobe Acrobat PDF format.

b) An EDP engineer will participate in the Kickoff Meeting remotely, via teleconference.

c) Onsite data collection and onsite Kickoff Meeting support is available (for an additional fee) should the Buyer/End-user require additional support.

d) Buyer/End-user supplied drawings, photos or data (requested by Seller) shall be provided two weeks prior to the site Kickoff Meeting to insure an accurate design.

2.2 LS2100e Base Work Scope

2.2.1 LS2100e Bill of Materials

The following items are included with the generator control system upgrade:

Description	Qty
Legacy series LCI Control to LS2100e DFE	2
LEM Modification Kit	2
NATO Board Modification Kit	2
Internal LS2100e Cross Over Scheme	2
Local Keypad (large)	2
Ethernet Simplex to Redundant Network Transceiver	2
Requisition Engineering, Static Start	incl.
Basic Engineering Design Package	incl.
Complete Installation	incl.
**** **Option** **** Level 3 Spares - LS2100e DFE	
Level 3 Spares, LS2100e DFE	1 set

2.2.2 Application Data

The offered system is based on the data summarized below. Any changes or modifications may affect final design and/or pricing.

General:

- Station Name: JEA Kennedy Station – Gas Turbines - Units 7, 8
- Turbine Type: Combustion Turbine Generators
- New Static Starter System: LS2100e DFEs for GE Innovation Series & LS2100 LCIs
- Quantity of Units: 2
- Input Frequency (Hz): 60
- Exciter Power Source: Auxiliary Supply

Environment:

- Maximum Ambient Temperature (º C): 40
- Maximum Altitude (meters): 1000

2.2.3 Control System

Seller will provide an LCI Static Start Modifications per the technical specification herein. A detailed technical description of the control system is found in the Technical Description section of this proposal below.

2.2.4 Engineering Services

2.2.4.1 Basic Engineering Design Package – LCI DFE

A DFE upgrade requires minimal changes to the system and relies on standardized work instructions called a Field Modification Instruction ("FMI"). The FMI is an OEM internally controlled document, which is not provided to the Buyer/End-user as part of the documentation package. The FMI is used by the Seller's Controls Engineer as reference to guide the work during the DFE installation. A reduced engineering effort is associated with a DFE upgrade, the bulk of which centers on the interconnection spreadsheet. The following Engineering Design Package support functions are included as part of this proposal:

EDP deliverables:

a) Interconnection spreadsheet (wire transition list)

b) Existing plant/system drawing sheet updates:

   i) Quantity: Up to twenty (20) drawing sheets

   ii) Editing format: Manual hand red lines

EDP Assumptions:

a) All documentation will be supplied in Seller's standard drawing/documentation format, in English with ANSI notation, in Adobe Acrobat PDF format.

b) An EDP engineer will participate in the Kick-Off Meeting remotely, via teleconference.

c) Onsite data collection is available (for an additional fee) should the Buyer/End-user require additional support.

d) Buyer/End-user supplied drawings, photos or data (requested by Seller) shall be provided two weeks prior to the site Kick Off Meeting to insure an accurate design.

No civil or structural engineering is included in this proposal.

Should additional efforts be requested, that time will be billed on a time and material basis per the standard Seller commercial rate structure.

Depending on the type of Engineering Design Package being offered, Buyer/End-user supplied drawings or data shall be provided two (2) weeks prior to a site walkthrough to allow for planning time. The quality of the design is dependent on the timing, quantity and quality of the data provided.
All drawings will be supplied on standard Seller drawing format in English with ANSI notation.

2.3 Documentation

Unless otherwise indicated, all electronic (softcopy) and hardcopy documentation, control screens, panel labels and wiring identification will be provided in the English language only. The Seller will provide the following product documentation in quantities and media type listed below:

One (1) softcopy of the project documentation will be provided on electronic/digital media. The file types will be Adobe Acrobat PDF, or the native file type received by the Seller's third-party vendor supplying its documents.

(3) sets of the project documentation will be provided in hardcopy format on paper and inserted into binders (3 ring or similar). The paper media will typically be 8-½" x 11" or folded 11" x 17" drawings. Note that HMI only projects will not include hardcopy documentation.

Item	Document Description
Item	**Generic List**
1	Elementary (Wiring) Diagram(s) (where applicable)
2	Layout Drawings, cabinet or otherwise (where applicable)
3	Recommended Spare Parts List
4	Instruction Manuals/Publications, including Maintenance and User Guides
5	System Guide/Publications
Item	**Application Specific List**
6	Startup Report
7	Model and Settings Report
8	Basic Engineering Design Package "EDP"

2.3.1 Project Management

The Seller will provide a Project Manager as a single point of responsibility for communications to the Buyer. The Project Manager's responsibilities will include:

a) Project scheduling and tracking for the project activities associated with the equipment upgrade

b) Procurement and expediting of all equipment and services included in this proposal to insure a smooth project

c) Coordination of engineering, test and startup activities for the equipment upgrade

All communication between Buyer/End-user and the Seller, including meetings, all documents, notes on drawings, instruction manuals, and submissions required under contract, shall be in the English language. Any language translation, if required, will be the responsibility of others.

2.4 Optional Work Scope

2.4.1 EX2100e Spare Parts

Level 3 Spare Parts
This Level of spares represents a minimum requirement to prevent prolonged downtime in the unlikely event of a failure.

The following is a representative spare parts list. Actual part numbers and quantities for component spare parts will be provided after receipt of order. Spare parts are priced in the commercial pricing section of the proposal.

Note: The Seller is offering a one-time price on a "Spare Parts Startup Kit" that is only available if purchased simultaneously with the major equipment purchase. The content of the Startup Kit is:

Level 3 – Redundant DFE Spare Parts	
Description	**Qty**
POWER SUPPLY 240W 28VDC	1
POWER SUPPLY 400W 40VDC	1
EX2100E AUX FUNCTIONS TMR	1
EX2100E BRIDGE AC FEEDBACK, 650V	1
EX2100E GATE PULSE 42-77MM	1
EXCITER DE-EXCITATION	1
EX2100E FANNED DC FEEDBACK TMR	1
EX2100E POWER DISTRIBUTION	1
EX2100E SYSTEM I/O, TMR	1
EXCITER ATTENUATION MODULE	1
MD CONTACTORS INTERFACE CARD	1
HIGHSPEED SERIAL LINK INTERFACE RJ45	2

2.4.2 Design Engineering Services

2.4.2.1 Power System Stabilizer (PSS) Tuning Study

The Seller can develop the PSS settings that result in providing as much damping as possible, in the range between 0.1 and 3.0Hz where intertie and local mode frequencies occur in interconnected power grids. The PSS tuning study will use computer models of the generator and excitation system and consider a wide range of system short circuit impedance reflecting strong to weak system conditions. This range of system impedance reflects the entire range of system conditions in which the unit will operate and ensures that the designed PSS settings deliver good performance for all possible unit operating conditions. The models will be analyzed, and the PSS lead-lag and gain settings will be designed using frequency response and root-locus analysis techniques. The response of the generator will then be simulated in the time domain to step changes in the Automatic Voltage Regulator (AVR) reference. The simulation results will be used during the PSS field commissioning tests to compare to the test results and validate the models and the PSS settings developed in the tuning study. A PSS Tuning Study Report summarizing the results will be issued in advance of the field commissioning tests.

For large steam units, an additional evaluation of torsional natural frequencies will be performed as part of the PSS Tuning study to identify torsional frequency margins; Seller will apply filters in the PSS to mitigate PSS-torsional interaction, if required.

The tuning study is normally issued 4 weeks after receipt of the following Buyer/End-user supplied data:

a) Generator data - this includes the following information:

i) Xd, X'dv, X'di, X"dv, X"di, T'do, T"do
ii) Xq, X'q, X"qv, X"qi, T'qo, T"qo
iii) Xl, leakage reactance
iv) MVA rating, kV rating, speed, power factor
v) armature resistance - r_a, field resistance – r_{fd}

The above data is usually given in per unit values on generator rating, except for field resistance which is in ohms (temperature of field at which resistance is given plus normal operating temperature should be specified).

Open Circuit Saturation Curve (or Table) - Terminal Voltage (kV or pu) versus Field Current (Amps)

Combined turbine-generator inertia constant in actual units (WR^2 in $lb\text{-}ft^2$) or GD^2 in MKS units, or per unit inertia constant H in kw-sec/kva (or M=2H)

b) Plant one-line diagram to identify the connection scheme and step-up transformer rating and impedance values. The base values on which the transformer impedances are given should be clearly indicated. Other information from the one-line would be special local loads, significant extra bus/line/cable between the unit and the transformer, or the transformer and the system. Also, the connection of the units through generator bus connection or split winding transformers. Any units in the plant which are already existing which may or may not have PSS controls already should be described with the computer models for their generator and excitation system.

c) Short circuit SC MVA (or short circuit current) on the HV bus (from the utility grid) to which the step-up transformer is connected. This number should be given for network contribution only, not including unit contribution. If it includes the unit contribution it should be indicated. If possible, we would like a range of SC values, maybe nominal with all lines in service, and lower limit with some lines out of service (contingency case). The net system impedance will be calculated from the SC duty, and added to the step-up transformer impedance to determine the net equivalent impedance seen from the generator looking into the power system. If the SC or transformer data from previous item is not available, the Seller will use a wide range of possible impedances from small to large to insure good performance at any operating condition. Having the site-specific data will allow calculation of the expected response to be measured during commissioning (start-up) of the unit.

Field service for excitation commissioning is defined in subsequent sections of this proposal. If included, the PSS will be commissioned using the PSS settings obtained from the tuning study. The following tests will be completed to validate PSS performance.

- Step test in AVR reference (base load without PSS)
- Gain margin test to determine the PSS gain to be used
- Step test in AVR reference (base load with PSS)
- AVR Uncompensated transfer function
- PSS transfer function

Any additional testing required by the Buyer/End-user beyond that listed above is not included in the present scope of work. If the Buyer/End-user requires additional testing a change order proposal will be issued to support the additional requirements.

These tests will be performed using the Control ToolboxST testing algorithms. External equipment such as signal isolators or frequency analyzers are not required. If the Buyer/End-user requires this type of testing equipment a change order proposal will be issued to support the additional requirements.

An analysis of test results will be documented in a final PSS Test Report that will be issued six weeks after completion of testing.

2.4.3 Control System

2.4.3.1 Operator Interface (GraphEX-OI)

An optional GraphEX-OI operator interface panel can be provided. This interface panel can be used with either generator exciters or voltage regulators. The GraphEX-OI comes with a new graphical user interface that is easier to read, more intuitive, and optimized for touchscreen use. The 15.6 in. widescreen format allows for 45% more information to be displayed on the screen compare to previous models. Functions included with the GraphEX-OI include system monitoring, full control functions, alarm management, and generator capability curve display (where applicable). Special handling and maintenance requiring addition price may be required if any changes to the existing exciter configuration is done or if modifications to the standard displays are requested.

2.4.4 LS2100e Spare Parts

Level 3 Spare Parts
This Level of spares represents a minimum requirement to prevent prolonged downtime in the unlikely event of a failure.

The following is a representative spare parts list. Actual part numbers and quantities for component spare parts will be provided after receipt of order. Spare parts are priced in the commercial pricing section of the proposal.

Note: The Seller is offering a one-time price on a "Spare Parts Startup Kit" that is only available if purchased simultaneously with the major equipment purchase. The content of the Startup Kit is:

Level 3 – LS2100e DFE	
Description	**Qty**
POWER SUPPLY 120W 24VDC	1
FUSE 10A 600V	3
FUSE 15A 600V	1
FUSE 25A 600V DUAL ELEMENT	1
HIGHSPEED SERIAL LINK INTERFACE RJ45	2
LS2100E GATING INTERFACE	1
UCSx CONTROLLER, QUAD CORE	1

2.4.5 Training

2.4.5.1 Onsite Training EX2100e/LS2100e 5-day Course

The scope of this proposal includes training of operations and maintenance personnel for the EX2100e and LS2100e and lasts five (5) days. The training will be provided on-site during the installation and commissioning of the new equipment offered in this proposal. This training is offered to key members of the operations and maintenance teams who will be responsible for the equipment. Our full-time instructors are thoroughly trained in the theory of operation of the hardware and software, supported by several years' application experience. This enables them to relate to real-world experience and actual field application problems.

The number of persons attending the course can be up to eight (8), and an outline of the course is given below.

Objectives

- Hands-on, simulated experience, with customers software for EX2100e upgrade.
- Generator, Excitation, LCI and the functions of the Generator Protection Panel w/ site drawings & system settings
- Basic startup checks, troubleshooting techniques on Generators, Excitation and Solid State Power Conversion Modules.
- Start up calibrate and troubleshoot the components level EX2100e Generator Excitation Systems.
- Includes Simulators, Customer Software, & Laptop equipment labs and simulation.

Program & Content

Day 1 Introduction
-Instructors Background
-Student Background
-Class Expectations
-Exciter Overview
-Role of Excitation System
-Exciter Major Components
-Off Line Generator Fundamentals & Synchronizing
-Major Components of an Excitation System
-Generator Operation Off Line
-Excitation Off Line Protective settings Synchronizing
-Classroom demonstrations of settings using trainer

Day 2 On Line Operation & Shutdown
-Loading the generator
-Watts and VARs
-Generator On line curves

-On line exciter protection
-Description of PSS Operation (If applicable)
-Classroom demonstrations of settings using trainer
-Exciter Hardware and Excitation Drawings
-Description of Exciter Hardware Components
-Recommended Maintenance of Exciter
-Local Keypad
-Print Reading Exercises
-Excitation Elementary drawings
-Excitation instruction manuals
-Classroom exercises

Day 3 Exciter Software
-Ethernet Connections
-GE Toolbox demonstration
-Navigating using toolbox
-Simulation of operating a generator
-HMI excitation screens
-Troubleshooting and Maintenance

-Lockout and tag out
-General Troubleshooting Guidelines
-Fault Indications
-Component Maintenance

Day 4 LCI Static Start
-Hardware overview
-LCI Software main components and familiarization
-Running the diagnostic tests
-Troubleshooting faults and alarms

Day 5 Generator Protection Panel
-Generator One Line drawing
-Generator Protection Panel elementary drawings
-Device function numbers
-Lockout relays
-Tripping schemes through the lockout relays

Unless Otherwise Specified Quoted Price Includes:

- Instructor's preparation and class time
- Manuals
- Class certificates for each student
- Travel expenses including food and lodging
- Shipping of training materials and equipment

Courses will be in English unless otherwise stated herein.

3 Site Services

3.1 Installation and Commissioning – EX2100e DFE and LS2100e DFE

The Seller will provide one Excitation Controls Field Engineer and one LCI Controls Field Engineer, who will work with and technically direct the Seller supplied craft labor for the installation of the new EX2100e Digital Front Ends (DFEs) and LS2100e DFEs on Units GT7 and GT8, as well as, perform checkout, startup and commissioning of the new Exciter/LCI controls, per the Seller's standard procedures.

The Seller will supply the electrical craft labor, tools and materials to perform the installation of the Seller supplied equipment.

All work is assumed to be within the existing Exciter/LCI cabinet lineups and does not include any installation, modifications, and/or configuration of any external wiring or conduit, field instrumentation, ancillary equipment, third party systems and interfaces, or protective relays.

Note: If not already present, new Ethernet/fiber network cabling *may* need to be provided and installed (by others) in order to interface the EX2100e/LS2100e to the Mark VIes and HMIs.

3.1.1 EX2100e DFE Installation

The Seller's Excitation Controls Field Engineer and Seller supplied electrical craft labor will perform the following installation related tasks.

a) Site safety training
b) Locate, uncrate and inventory equipment
c) Stage parts near work area
d) De-energize existing controls and LOTO (Buyer/End-user responsibility, Seller personnel to verify)
e) In existing Excitation cabinets, tag (if not already tagged) & de-terminate the necessary control and instrumentation wiring, and secure for re-use
f) Removal of the existing Excitation Control System components as required per design
g) Install new EX2100e panel inserts/subassemblies in existing cabinets
h) Re-route previously de-terminated control and instrumentation wiring to new EX2100e terminal boards and re-terminate per Seller's drawings
i) Re-terminate power and ground wiring
j) Connect and verify Ethernet network cabling from EX2100e controller to network switch

3.1.2 EX2100e DFE Commissioning

The Seller's Excitation Controls Field Engineer will perform the following commissioning and startup related tasks, with assistance from Seller supplied craft labor, and where necessary, Plant Technicians.

a) LOTO clearance (Buyer/End-user responsibility)
b) Power Up EX2100e and validation
c) Establish communications between Master HMI and EX2100e
d) ToolboxST/Controller downloads to EX2100e and validation
e) I/O Validation (loop checks)
f) Software Validation with EX2100e Generator Simulator
g) Hardware Validation
h) Cimplicity screen validation
i) Alarm validation
j) EX2100e Generator Rated Speed Offline Commissioning
k) EX2100e Generator Online Partial Load Commissioning
l) EX2100e Generator Online Full Load Commissioning
m) Final Report/redlines/wrap-up

3.1.3 **LS2100e DFE Installation**

The Seller's LCI Controls Field Engineer and Seller supplied electrical craft labor will perform the following installation related tasks.

a) Site safety training
b) Locate, uncrate and inventory equipment
c) Stage parts near work area
d) Record baseline data
e) De-energize existing controls and LOTO (Buyer/End-user responsibility, Seller personnel to verify)
f) Remove Operator Interface, if one is present
g) Verify tagging on existing control cabinet wiring (tag wires as necessary)
h) Per drawing, de-terminate the necessary existing control cabinet wiring and secure out of the way for re-use
i) Per drawing, remove the necessary existing controls components from cabinets
j) Remove existing pump panel components no longer to be used
k) Install new LS2100e controls components in existing cabinets (most will be on pre-mounted panel inserts)
l) Replace Source and Load Bridge FGPA boards, if supplied
m) Replace NATO cards, if supplied
n) Replace LEM, if supplied
o) Relocate CTRM to pump cabinet, if applicable
p) Replace resistivity sensor
q) Install new DFE wiring harness
r) Re-route and reconnect the previously de-terminated control cabinet wiring
s) Install new local operator interface (COI or keypad), if supplied
t) Connect and verify Ethernet network cabling from LS2100e controller to network switch

3.1.4 **LS2100e DFE Commissioning**

The Seller's LCI Controls Field Engineer will perform the following commissioning and startup related tasks, with assistance from Seller supplied craft labor, and where necessary, Plant Technicians.

a) Checkout/commissioning
i. Visual checks
ii. LOTO clearance (Buyer/End-user responsibility)
iii. Power-up LS2100e and validation
iv. Establish communications and software integration between LS2100e, HMIs, Mark VIes, EX2100es
v. ToolboxST/Controller downloads and validation
vi. Software and Operator Interface/Cimplicity screen functionality verification
vii. Alarm validation
viii. Loop checks
ix. Verify control & programming and crossover sequencing
x. Interlock verification
xi. Cooling system checkout

b) Startup Checks
i. Startup and run both GT Units, verify each GT for proper start-up & operation
ii. Verify crossover functionality
iii. Validate settings
iv. Complete commissioning
v. Final Report/redlines/wrap-up

4 Proposal Basis and Buyer Responsibilities

This section lists those items which are provided by the Buyer or End-user and not part of the Seller's scope of supply. It also lists the Seller's assumptions, comments to Buyer's requirements, and the breakdown of Buyer/End-user responsibilities.

4.1 General Assumptions and Clarifications

Below represents the Seller's clarifications, assumptions and exceptions related to the Seller supplied equipment and services:

a) Seller believes that this proposal/quote meets the intent of the Buyer's request and will be the document of reference in any resulting contract.

b) Seller assumes multiple units onsite (included in this proposal) are similar except for the Unit number designators and tag names as they relate to the Seller supplied equipment (Hardware, Software), engineering, documentation and control logic functionality. Pricing for unique hardware, software or engineering is not included, when the scope of work is applied to multiple units onsite, which are assumed to be similar.

c) Unless otherwise specifically identified herein, this proposal assumes that none of the Seller's equipment (and related engineering) being supplied under this contract (or related contract) will be installed in, or have its wiring routed through, a classified hazardous area (Ex: Nuclear, Safety Related, ATEX, Class I, Div2 or Class 1 Div1 area).

d) It is assumed that any existing equipment/devices/wiring/sensors/networks that are not being replaced as part of this work scope are in a good working order, calibrated to OEM specifications and will function as designed and work properly with the new system(s) provided. Replacement of non-functioning equipment/devices/wiring, including any troubleshooting or re-calibration will be on a time and material basis per the Seller's then current Services Rate Schedule (Tier 5 Controls Engineer) rates, in effect at the time of the work.

e) If an RFQ or technical specification is presented by the Buyer/End-user during the project's execution (contract term), that was not initially brought to the attention of the Seller during the proposal development stage and said specifications/requirements subsequently increase the cost of the project for the Seller, this will be treated as a contract change order and billed accordingly.

f) Seller reserves the right to substitute suitable and equivalent third-party hardware in place of those proposed should such items become obsolete prior to final delivery of those products. If during the warranty period a third-party hardware item becomes defective and requires replacement, such item may be replaced by a substitute item if the third-party item has been obsoleted. Buyer shall receive notification of substitution prior to shipment of the items.

g) When existing cabinetry is being reused, the Buyer/End-user shall be responsible for the condition and suitability of same to house the Seller supplied equipment, maintaining NEMA, EMI and RFI requirements, as an example.

h) No provisions for a separate, integrated FAT or communication testing with a foreign device or other sub-systems (DCS, SCADA, Historian, etc.) are included in this proposal. Simple communication testing with Buyer/End-user's foreign devices or other sub-systems can be conducted and verified by the Seller's Controls Engineer carrying out the commissioning onsite. Should Buyer decide to have a separate communication test with other systems at Buyer's facility, Seller will provide a quotation upon Buyer's request and detailed definition

i) No modifications to any Buyer DCS or third-party equipment are included in this proposal. The new Seller supplied equipment may require modification to DCS signals to maintain compatibility. Modification of these DCS signals is the responsibility of Buyer.

j) Relevant OEM Technical Information Letters ("TIL") related to equipment being provided, have been performed by Buyer/End-user prior to installation of Seller supplied equipment.

k) Buyer is responsible to adhere to the timetable of critical project data exchange and execution milestones as identified in the detailed project schedule agreed to at the kickoff meeting.

l) As the project must incorporate Buyer specific requirements, Buyer must support all project activities:

i) Support Site kickoff meeting, site visits, design reviews, status meetings, etc.

ii) Participate in Buyer-witnessed factory tests and site acceptance tests (if included)

iii) Respond to Seller inquiries and requests for documentation in a timely manner.

iv) Direct all communications through Seller's assigned Project Manager.

v) Document, in writing, approvals for all change orders.

4.2 Application/Product Specific Buyer/End-user Responsibilities

The following represents the Buyer/End-user responsibilities which are specific to the product being supplied by the Seller.

4.2.1 Relay Settings, Coordination Studies and Testing

Buyer is responsible for relay settings, any coordination studies, programming and testing that may be required unless otherwise stated elsewhere in this proposal.

4.2.2 EX2100e Exciter

The following represents the Buyer/End-user responsibilities which are specific to the EX2100e Exciter product being supplied by the Seller.

a) If the excitation system project is executed during or after a turbine control upgrade, the excitation system will utilize the turbine control system Ethernet switches and routers.

b) Sensing Signals and Control Interfaces

i) Generator current feedback

ii) Generator voltage feedback

iii) Generator lockout relay status - A normally closed contact from 86G

iv) Generator breaker status - A normally open contact indicating open/close status of the generator breaker

v) Control power sources for AC input and DC input control power

vi) Network Analysis and Troubleshooting software: Network analysis software is permitted to be installed (by the Buyer/End-user) on a supplied computer for network analysis and troubleshooting physical network nodes connected to the GE Plant Data Highway, GE Unit Data Highway and third-party interface protocol communications, e.g., Modbus, IEC-60870, OPC, DNP3, IEC-61850. This permission assumes that this software does not directly interface or disrupt the process of the GE turbine/generator control software and associated communication and that it will not interfere with the operation of the supplied computer in any way. This practice will not void the software warranty, provided as part of the software license/Addendum, if the malfunction was not caused by the installation of the Network analysis software by the Buyer/End-user.

c) Control Power Sources

Existing control power feeds will be reused, and the burden should not change.

d) Model and Settings Report (MSR)

i) Timely submittal of the generator data form and all relative “as running” settings of the existing excitation system.

ii) Review of the preliminary MSR and markups relative to End-user desired coordination of the protection relay settings.

4.2.3 Digital Front End (DFE) Retrofit

The following represents the Buyer/End-user responsibilities which are specific to the Digital Front End EX2100e Exciter product being supplied by the Seller.

a) Adequate power and cable for field flashing if provided.

b) The PPT and power conversion bridge(s) shall be provided in a clean and healthy state for the DFE retrofit.

4.2.4 Training (optional)

When the Seller provides formal onsite training the Buyer/End-user will need to provide the following to support the training session(s):

a) Training facility/room

b) Table and chairs for students

c) Table for demo equipment

d) Projection screen

e) White/black board and markers/chalk

f) Sanitary facilities for instructor(s)

g) Audio or video recording of Seller’s lecture material is strictly prohibited.

h) The Buyer/End-user shall be responsible for all the travel and living expenses of the students.

4.2.5 LS2100e Static Starter/DFE Retrofit

a) Installation assumes access and egress to front of LCI, and any surrounding enclosure or building structure, is adequate to support installation of all new components.

b) Installation of the DFE assumes free and clear access to the rear of the static starter load bridge to perform modifications. Any access or working condition requirements that result in relocation of any equipment or apparatus, cutting or modification of the LCI enclosure to gain sufficient access to the equipment and/or create suitable and safe working clearances may result in additional cost and may extend the project cycle. A weather cover is not typically required with the DFE upgrade.

c) Existing buss work, field control wiring, and power wiring is in satisfactory condition and will be reused as part of the scope of work.

d) The following are not included but could be added if desired by the Buyer/End-User.

i. Busduct, Cables, Conduits and/or raceways or any interconnecting wiring.

ii. Since this upgrade does not include a change in how the plant intends to start units, e.g. going from starting one unit at a time to two units at a time, this clause is not applicable. However, if Buyer decides to modify the starting process as given in this example, the Buyer is responsible for the capacity of the bus feeding the LCI. This is especially true for the ability to simultaneously start the

units. We are providing that capability from a hardware and software perspective, but the Buyer must ascertain whether the plant bus can start both phases at the same time and carry the plant auxiliary load as well. Adequate capacity is required for both voltage and harmonics control. Seller is not including a study to determine the Plant bus capability.

e) Cable resistance and capacitance considerations for LCIs (when applicable – Note that since Seller is not changing the power cabling, this clause is not applicable) :

i. Cable resistance limits: For new cable designs, the power plant systems designer needs to limit the cable resistance per phase between the LCI output, the optional the ac reactor, and the generator, to no more than the value given by the Seller LCI application engineers, examined on a case by case basis. Seller recommends the use of copper cables, and cable runs as short as possible. All new cable designs must be submitted to the Seller application engineering team for evaluation before proceeding.

ii. Cable capacitance limits, and optional AC output reactor: The LCI power converters are designed to operate successfully with up to 0.125 microfarads of parasitic capacitance to ground on the AC and DC buses. Care must be exercised so that all cable runs are as short as possible, to avoid a cable capacitance problem. In cases where the output AC bus capacitance exceeds the 0.125 microfarad limit, the practice is to insert an external AC reactor near the output of the LCI. Any installations that will have more than 0.125 microfarads of parasitic capacitance to ground must be submitted to the design team for evaluation before proceeding.

iii. Short Circuit MVA for LCIs: Buyer/End-user's auxiliary bus is to have short circuit available current of 250MVA minimum. Reduced amounts of bus KVA will result in increased levels of voltage and current distortion. Reference IEEE 519-1993 harmonic control and reactive compensation of static power converters for additional information. Buyer/End-user is to specify short circuit MVA as part of one-line drawing approval process.

iv. Simultaneous Start: The Buyer/End-user is responsible for the capacity of the bus feeding the LCI. This is especially true for the ability to simultaneously start the units. Seller is providing that capability from the hardware and software perspective, but the Buyer/End-user must ascertain whether the bus can start the units at the same time and carry the plant auxiliary load as well. Adequate capacity is required for both voltage and harmonics control. Seller is not including a study to determine the Plant bus capability.

f) Buyer shall remove existing trench covers to support Seller's installation of new cable prior to commencement of the work and reinstall them after work is complete. (when applicable – Note that since Seller is not changing the power cabling, this clause is not applicable)

4.3 Documentation Related Buyer/End-user Responsibilities

This proposal is based on the following:

a) It is assumed that Seller will be furnished, upon request, with full drawings and information concerning the state of the existing installation including wiring information to the existing terminations including process and instrumentation diagrams ("P&ID's"). If such information is not available Seller will charge for the work involved in obtaining this information.

b) Overall project cycle time is dependent upon receipt of current site data. It is Buyer's responsibility to provide the relevant site data in a timely manner. Seller's Project Manager will be assigned after receipt of order and will provide instructions for the download and transfer of site data as necessary. Site services to obtain the site data are not included in this offering but can be provided for an additional cost. Site data includes but is not limited to as-running software and design/engineering/P&ID drawings.

c) If the site data is not provided within two weeks upon placement of order, the possibility exists that the hardware/software may be engineered using default or; generic data and a delay in delivery and/or an extended startup time may result.

d) Unless explicitly identified above, Seller is not supplying interconnect wiring or loop diagrams.

e) This proposal does not include plant operation manual updates, or any other site documentation modifications.

f) To initiate and complete the engineering the following (including but not limited to) documentation shall be provided in a timely manner:

i) As-running Turbine, Generator, and Motor Control Center controls elementary diagrams

ii) As-running device summary diagram

iii) As-running controls specifications

iv) As-running connection diagram

v) Electrical One Line diagram

Note: Incomplete or poor-quality drawings, drawings with errors or delays in receipt of drawings and as-running software could result in a contract change order (with schedule and price relief) to overcome issues which may hinder Seller from completing its engineering within the agreed upon schedule.

4.4 Site Services Division of Responsibility (DOR)

This DOR table identifies the entity responsible for various aspects of the controls upgrade proposed and outlines the basis of the Services estimate. It is intended to aid the execution of the project by clearly describing the expectations of all parties.

Responsibility Legend: B=Buyer/End-user, S=Seller, N/A= Not Applicable			
Item	**Description**	**Responsibility**	**Comments**
PREPARATION			
a)	Lock Out Tag Out ("LOTO") of all equipment related to Seller's work, prior to start of seller's work. Seller personnel will verify.	B	
b)	Health, Safety, Emergency Response & Security Procedures	B	
c)	Regulatory Requirements and permits (Air, welding, work, etc.)	B	
d)	Hardhat, safety glasses, hearing protection, hand protection, safety footwear for Seller's personnel.	S	
e)	Offload the Seller supplied equipment/material upon delivery and store as required. Place equipment near work area prior to the start of Seller's work.	B	
TEMPORARY CONSTRUCTION FACILITIES			
f)	Scaffolding: Supply, installation, setup and removal	B	
g)	Crane and/or forklift, rigging, rigging plan & Operator	B	
h)	Temporary Utilities (electric, light, air, water, and internet)	B	
i)	Office space, internet access, sanitary facilities, drinking water, parking etc. for Seller's personnel.	B	
j)	Construction Waste Management and Disposal	B	

Responsibility Legend: B=Buyer/End-user, S=Seller, N/A= Not Applicable			
Item	**Description**	**Responsibility**	**Comments**
k)	First Aid facilities	B	
l)	Hazardous Material identification, testing & abatement. Seller shall be afforded schedule & price relief related to any remediation efforts.	B	
CONTROL INSTALLATION			
m)	All Installation labor, equipment and Materials	S	
n)	Signal Mapping or changing of third-party signal tables required due to Controls upgrade	B	
o)	Testing required to satisfy regulatory requirements	B	
INSTALLATION SUPPORT			
p)	Dedicated Operations support during commissioning and startup testing	B	
q)	Provide a minimum of one dedicated individual to support the Seller's Field Engineer(s) in the I/O verification (loop checks). Buyer personnel provided for this activity must have familiarity with the unit, location of devices, and methods for adjusting devices to impact change in the control system. The Buyer must provide specialty devices such as radios, function generators, pressure devices, etc. required for checkout.	B	
r)	Calibration of Protection devices & relays during setup and commissioning	B	
s)	Confined space entry permit, specialized equipment, observer and personnel to enter the confined space, and perform work.	B	
t)	Disposition of all removed equipment and generated trash	B	
u)	Modifications/updates to existing site OSMs to accommodate the addition of the EX2100es and LS2100es into the .tcw file and changes in ControlST version	S	
v)	All relevant TIL's related to safety Interlocks must be in place prior to the LS2100e DFE Installations	B	

5 Commercial Section

The work scope identified in this document is subject to the following terms and conditions, and by reference are incorporated herein.

5.1 Pricing

5.1.1 Scope of Work Pricing

The prices for the scope of work detailed in the proposal will be as follows:

Item	Offering	Description	USD Price
1	Base	Main System – qty-2 EX2100e DFEs w/PSS, local keypads, Basic EDP, Installation Services	$257,841 (Includes Reclamation Credit)
2	Base	Main System – qty-2 LS2100e DFEs, local keypads, Basic EDP, Installation Services	$242,716 (Includes Reclamation Credit)
		Total Base	**$500,557**
3	Option 1	Level 3 Spares - EX2100e DFE WBU	$13,791
4	Option 2	PSS Tuning Study – GT7, GT8	$50,115
5	Option 3	GOI - GraphEX-OI Operator Interfaces for EX2100e	$19,022
6	Option 4	Level 3 Spares - LS2100e DFE	$8,400
7	Option 5	Onsite Training – EX2100e/LS2100e 5-day course	$32,575
Item	**Offering**	**Reclamation Description**	**USD Price**
8	Base	Option to opt out of parts reclamation credit for the return of the EX2100 77mm WBU	$11,494
9	Base	Option to opt out of parts reclamation credit for the return of the LS2100 LCI	$5,747

5.1.2 Pricing Limitations and Considerations

This proposal is based on the following:

a) Unless otherwise indicated, the prices quoted herein are valid for the delivery of equipment in **2022** and performance of services in **2022**. Delivery of equipment or performance of services in years after these shall be subject to a price escalation fee equal to 4% per year of the contract price for the undelivered equipment or un-performed services.

b) This proposal is will remain valid for 30 days from the date indicated in the cover page and may be modified or withdrawn at any time by Seller prior to receipt of Buyer's acceptance.

c) Prices quoted are based on the Assumptions and Clarifications as described in the Proposal Basis Section and performed according to the Terms and Conditions referenced or provided herein.

d) Seller reserves the right to review and re-quote this job if there is a discrepancy between this proposal and the purchase order. If Seller receives a specification between the issuance date of this proposal and receipt of the purchase order, Seller reserves the right to re-evaluate this proposal.

e) Seller will evaluate changes to the specification, drawings, services or existing equipment. If these changes constitute a change in the quoted work scope or schedule, Seller will quote the changes and a change order must be received before work is to proceed.

f) The pricing breakouts outlined in this proposal are for accounting purposes only and are not to be considered as standalone prices.

g) The prices quoted herein exclude taxes or other regulatory fees.

h) The prices quoted herein exclude duties.

i) Travel and lodging/living ("T&L") expenses are included.

j) **Parts Reclamation Program**: **If included as part of this project**, the pricing above is contingent upon the implementation of the Seller's Parts Reclamation Program whereby the Buyer returns the hardware removed as part of this project and the associated Buyer/End-user owned spare parts. The parts removed will be collected and packaged for shipment to a Seller's facility by the Seller's Controls Engineer, with assistance from the Buyer/End-user site personnel. The Buyer/End-user will be responsible for collecting any spares that are no longer applicable to the control system and providing them to the Seller's representative for packaging. The Seller will provide the packaging material and shipping expense for returning the reclaimed parts to the Seller's facility. Failure to return removed hardware and unused spare parts may result in a contract change order for the value of the un-returned hardware/parts.

5.1.3 Proposal Validity

Prices quoted herein are firm and valid for 30 days. GE reserves the right to modify prices herein for work ordered after that date. This proposal is subject to change upon notice prior to order.

5.1.4 Payment Terms

Payment will be due in U.S. Dollars no later than 30 days from receipt of Seller's invoice without any setoff (including, without limitation, setoff under other contracts with Seller or with General Electric Company or its affiliates). These terms will take precedence over any conflicting payment terms referenced.

5.1.5 Payment Schedule

GE proposes the Payment schedule below. The first payment shall be due immediately upon receipt of Purchase Order.

Milestone	Amount (% of Contract)
Order Receipt	50%
Order Complete	50%

5.1.6 Terms and Conditions

Pursuant to the terms and conditions of the Long Term Parts & Long Term Service Contract between JEA and General Electric International, Inc. signed on June 26, 2000 (the "Agreement") and amended thereafter.

Accordingly, except as expressly set forth herein, this Proposal is subject to the terms and conditions of the Agreement and such terms and conditions shall apply without limitation, as if fully set forth herein. Unless otherwise defined herein, all capitalized terms used in this Proposal shall have the same meaning given to them in the Agreement.

Any additional or different terms and conditions set forth in any proposal or communication by or from JEA are expressly objected to and will not be binding upon Contractor unless specifically agreed in writing by an authorized agent of Contractor.

COVID-19 VIRUS: The parties acknowledge that the COVID-19 epidemic and government actions in response to it have affected and will continue to affect Seller's ability to deliver goods and services around the world (the "COVID-19 Impact"). In the event that the COVID-19 Impact affects Seller's ability to deliver on time or at the bid price, , Seller shall be entitled to an equitable adjustment in schedule and price as appropriate, subject to Seller's obligation to work in good faith with Buyer to mitigate the impact on schedule and/or cost.

5.2 Schedule

5.2.1 Equipment Schedule

The After Receipt of Order ("ARO") date will be the date that the Seller acknowledges the Purchase Order, not the initial date that the Seller receives that PO.

The estimated timescale from acknowledgement of PO/contract to Delivery of the equipment is **(26) twenty-six to (30) thirty weeks** and is based on current factory loading and lead times offered by Seller and other vendors, if any.

5.2.1.1 Equipment Schedule Limitations

Delivery dates can vary depending on factory workload and should be confirmed before issue of order. Delays in receiving vital information from the Buyer/End-user or delays in receiving "review" drawings back from the Buyer/End-user will impact the ARO delivery dates. These delays may result in a day for day slip in the delivery schedule or a complete shift of the delivery dates indicated herein.

When detailed drawings representing the Buyer's current (as-running), installed equipment cannot be made available to the Seller, it is critical that the Seller has sufficient time and physical access to the Buyer's equipment while in a Lock-out/Tag-out condition. This will allow the Seller to take measurements, design, manufacture, and field fit these portions of the total scope of supply. Some examples of this may include mounting plates, blanking plates, etc.

Seller's proposed schedule with milestone dates will be presented at the project Kickoff Meeting. This project schedule will illustrate the various activities from purchase order/contract receipt, through design, manufacture, testing, shipment and site services (if in work scope).

The overall price and cycle quoted herein requires full cooperation between the Seller and the Buyer/End-user and adherence to key milestones dates specified as part of a project implementation plan. The specific milestone dates will normally be set during the project kickoff meeting and will normally include, but may not be limited to, the following key project control points:

a) Project Kickoff Meeting (Buyer and Seller)

b) Site survey and/or supply of applicable site data (Buyer and Seller)

   i) Site data (Buyer)

   ii) Drawings and documentation (Buyer)

   iii) Logistics data (Buyer and Seller)

c) Drawing submittals (Seller)

d) Design review and approval (Buyer)

e) Design freeze (Buyer and Seller)

f) Factory acceptance test/Buyer witness test (Buyer and Seller)

g) Supply of documentation for shipment (Buyer)

h) Support commissioning, start-up, site acceptance testing and handoff (Buyer and Seller)

i) Delivery of documentation (Seller)

Unless otherwise agreed upon in advance, the work shall be executed in an uninterrupted and sequential fashion. If the work is interrupted by or for the convenience of the Buyer, or cannot be performed according to the schedule, the Seller has the right to submit a change order for incremental charges (for example multiple site trips or additional design review cycles, etc.). The Buyer shall be provided drawings of sufficient quality and thoroughness early in the project and be given one review cycle, to submit comments and request changes. The review cycle is typically 3 weeks long but depends on the project schedule and will be reviewed and agreed upon at the Kickoff Meeting. After the review cycle the design will be considered frozen and the cost and schedule impact of requested changes will increase.

5.2.2 Site Services Schedule

The Seller's Services Schedule is based on the following trips, time onsite and working schedule:

GT7 & GT8 – EX Field Engineer Tasks for EX2100e Installs	Working Schedule	Duration
Trips	(1) One Roundtrip total for one EX Field Engineer	
Travel In	8 hrs./day, 5 days/wk., Mon-Fri, single shift	1 day
Job Prep (Safety, LOTO, prep.)	10 hrs./day, 6 days/wk., Mon-Sat, single shift	1 day
GT7 EX2100e DFE Installation	10 hrs./day, 6 days/wk., Mon-Sat, single shift	5 days
GT8 EX2100e DFE Installation	10 hrs./day, 6 days/wk., Mon-Sat, single shift	3 days
GT7 & GT8 DFE Checkouts	10 hrs./day, 6 days/wk., Mon-Sat, single shift	3 days
GT7 & GT8 Startup & Commissioning	12 hrs./day, 6 days/wk., Mon-Sat, single shift	2 days
Report/Redlines/Wrap-up	8 hrs./day, 5 days/wk., Mon-Fri, single shift	1 day
Travel Out	8 hrs./day, 5 days/wk., Mon-Fri, single shift	1 day

GT7 & GT8–LCI Field Engineer Tasks for LS2100e Installs	Working Schedule	Duration
Trips	(1) One Roundtrip total for one LCI Field Engineer	
Travel In	8 hrs./day, 5 days/wk., Mon-Fri, single shift	1 day
Job Prep (Safety, LOTO, prep.)	10 hrs./day, 6 days/wk., Mon-Sat, single shift	1 day
GT7 LS2100e DFE Installation	10 hrs./day, 6 days/wk., Mon-Sat, single shift	6 days
GT8 LS2100e DFE Installation	10 hrs./day, 6 days/wk., Mon-Sat, single shift	4 days
GT7 & GT8 DFE & Crossover Checkouts	10 hrs./day, 6 days/wk., Mon-Sat, single shift	4 days
GT7 & GT8 Startup & Commissioning	12 hrs./day, 6 days/wk., Mon-Sat, single shift	1 day
Report/Redlines/Wrap-up	8 hrs./day, 5 days/wk., Mon-Fri, single shift	1 day
Travel Out	8 hrs./day, 5 days/wk., Mon-Fri, single shift	1 day

The final schedule is to be determined after customer kickoff meeting.

5.2.3 Site Services Schedule Limitations

The Seller's Services schedule is based on the following assumptions and clarifications.

a) The Seller's Holidays, standby time or second/night shift work are not included.

b) The Seller's onsite time includes up to a maximum of two (2) hours of site access/safety orientation training for the Seller's personnel. This training i) does not include additional mobilizations, ii) is assumed to occur on the plant site and iii) immediately upon arrival/initial mobilization (No special offsite training requirements). Site safety/access training outside these guidelines will be billed to the Buyer/End-User, as a change order, per the Seller's Standard Services Rate Schedule (Tier 5 Rates) in affect at the time of the work.

c) Buyer/End-user shall be responsible for the proper Lockout/Tagout of the equipment prior to the start of the installation of the new controls hardware. Seller has included a maximum of four (4) hours per Unit for the Lockout/Tagout activities to be included in the base project scope for the Seller's Field Engineers and craft labor. Additional hours required to complete the LOTO will be considered as a delay and be billed at the Seller's Standard Services Rate Schedule (Tier 5 Services Rates) in affect at the time of the work.

d) It is assumed that the GT7 and GT8 EX2100e DFE and LS2100e DFE upgrades will be performed during the same outage and concurrently with the Mark VI to Mark VIe upgrades on the same Units. If this execution plan changes, then schedule and pricing would need to be re-visited.

e) The Seller has allocated (1) one, 12-hour day per Turbine Generator Unit, for Start-up support and final Commissioning of the new EX2100e and LS2100e controllers. This includes the unit specific dynamic testing based on Seller's standard procedures. Any customer delays associated with permits, equipment failures, other plant activities, additional customer requested tests, etc. will be billed as an extra cost at the current Seller's Standard Services Rate Schedule (Tier 5 Services Rates) in affect at the time of the work.

f) Assumes work scope can be accomplished in an uninterrupted fashion per the schedule above.

g) The Seller has included a fixed quantity of onsite time and trips to site to perform the site services work. These fixed quantities are based on the Seller's experience for similar Work scope on similar equipment and recognizes the End-user's outage schedule. The End-user shall be responsible for properly staffing the installation and commissioning such that the activities below fit within the Seller's site services schedule.

h) Additional trips or onsite time not specifically identified i) in the Schedule, ii) in this proposal document or iii) not agreed to between the parties, prior to providing the additional services, will be billed to the Buyer/End-user, as a change order to the contract/purchase order, per the Seller's Standard Services Rate Schedule (Tier 5) in affect at the time of the work.

i) Delays in the performance of work beyond the reasonable control of Seller, or delays caused by acts of the Buyer/End-User or prerequisite work by others, shall entitle Seller to an adjustment of time and price for completion of their work and expenses resulting therefrom.

j) Scope or schedule changes related to these limitations will be billed to the Buyer/End-User, as a change order, per the Seller's Standard Services Rate Schedule (Tier 5 Services Rates) in effect at the time of the work.

k) Safety is always a priority for our customers. To ensure safe and alert personnel, Seller's EHS policy requires a rest period of 36 consecutive hours every 19 consecutive days worked. Therefore, Seller will implement one rest day for all Seller personnel on site, at a 19-day interval, if working seven-day weeks. Our base offering does not include any extra personnel to cover work activities during the required rest period. If required/requested, Seller can accommodate alternative schedules by adding personnel to site, which will be billed as an extra, using the mutually agreed to change order process.

6 Appendices

6.1 Technical Description

The EX2100e is an evolutionary product based on the proven control architecture of the GE Mark control products and EX2100 generator control and protection algorithms. This next generation of EX generator control aligns with the hardware platform of the GE Mark VIe turbine control, resulting in the following added value for the End-user:

- Increased turbine island control system integration for more seamless plant operation and protection.
- Improved software feature sets and integrations through the movement of the EX platform into the GE ControlST operating environment, with access to improved tools for excitation system set-up, maintenance and troubleshooting.
- Reduced training burden due to single hardware and software platform across unit and generator control systems.
- Engineered life-cycle management options for owners of EX2000 and EX2100 products through structured migration products to reduce cost and cycle of product modernization.
- Hardware platform simplification through discrete component, card and interconnecting cable reduction.
- Software tools and documentation packages to support evolving grid stability testing and reporting requirements.
- Improved hardware and software cyber security capabilities.

6.1.1 Digital Front End (DFE) Retrofits

A key feature of the EX2100e is a flexible, highly modular design that can be applied to a wide range of excitation control applications. It is this feature that also allows the EX2100e controls to be applied to a variety of GE and non-GE power converters (PCMs). There are many static SCR-based excitation systems in operation today that have been operating for many years. A significant percentage of these systems contain power converters that have not reached the end of their useful service life but are controlled by outdated analog or digital control hardware that lacks the features of modern excitation control systems, or for which engineering support and replacement parts availability is limited. Such systems are ideal candidates for replacement of the controls by a new EX2100e Front End control interfaced to the existing power converter.

6.1.2 Supported Standards

The EX2100e family of products is designed to operate within the constraints and conditions specified by the following, where specifically applicable to this equipment and/or the location/region of installation:

ANSI/IEEE Standards:

- 421.1 Standard Definitions for Excitation Systems for Synchronous Machines.
- 421.2 Guide for Identification, Testing, and Evaluation of the Dynamic Performance of Excitation Control Systems.
- 421.3 High-Potential Test Requirements for Excitation Systems for Synchronous Machines.
- 421.5 Recommended Practice for Excitation Systems for Power Stability Studies.
- C57.12.01 General Requirements for Dry-Type Distribution and Power Transformers including those with Solid Cast and/or Resin-Encapsulated Windings.
- C57.110 Recommended Practice for Establishing Transformer Capability when Supplying Non-Sinusoidal Load Currents.
- C57.116 IEEE Guide for Transformers Directly Connected to Generators.
- C37.90.1 Surge Withstand Capability (SWC) tests for Protective Relays and Relay Systems.
- C57.18.10 Practices and Requirements for Semiconductor Power Rectifier Transformers.

Other Standards:

- UL 508C Safety Standard Industrial Control Equipment.
- CSA 22.2 No. 14 Industrial Control Equipment.
- IEC EN 55011 Industrial equipment emissions.
- IEC EN 50178 Electronic equipment for use in power installations.
- IEC EN 60439-1 Low-voltage switchgear and control gear assemblies Part 1: Specification for type-tested and partially type-tested assemblies
- IEC EN 61000-4 Industrial equipment immunity.
- MIL-W-16878/15 and /16 for 300V and 600V wire, respectively
- NFPA NEC (National Electric Code).

Applicable parts of:
- IEC EN 60204-1 Safety of Machinery - Electrical equipment of machines Part 1: General Requirements

6.1.3 Environmental Limits

GE EX2100e Digital Exciters are operable within the following environmental limits:

Temperature and Humidity:
- Minimum ambient temperature: 0ºC
- Nominal ambient temperature (no derate): 40ºC
- Maximum ambient temperature (with derate): 50ºC
- Nominal ambient temperature (for this specific application): 40ºC
- Maximum rate of temperature change: 0.1ºC per min
- Maximum relative humidity: 95% (non-condensing)
- Maximum rate of relative humidity change: 1% per min

Gases:
Maximum concentration of corrosive gases at 50% relative humidity and 40ºC (per EN50178: 1994 Section A.6.1.4 Table A.2 (m)
- Sulfur dioxide (SO_2), 30 ppb
- Hydrogen sulfide (H_2S), 10 ppb
- Nitrous fumes (NOx), 30 ppb
- Chlorine (Cl_2), 10 ppb
- Hydrogen fluoride (HF), 10 ppb
- Ammonia (NH_3), 500 ppb
- Ozone (O_3), 5 ppb

Particulates:
Particle sizes from 10 - 100 microns for the following materials
- Aluminum oxide Ink
- Sand/dirt
- Cement
- Steel mill oxides
- Lint
- Coal/carbon dust
- Paper
- Soot

Seismic:
UBC (1997) and IBC (2012)

EX2100e 35A: UBC Zone 4; IBC 2.7g Ss (offered as upgrade option)
EX2100e 120A: UBC Zone 4; IBC 2.1g Ss (offered as upgrade option)
EX2100e 42mm: UBC Zone 4; IBC 1.8g Ss
EX2100e 77/53mm: UBC Zone 4; IBC 2.4g Ss
EX2100e 100mm: UBC Zone 4; IBC 1.8g Ss
EX2100e DFE: UBC Zone 4; IBC 2.4g Ss (offered as upgrade option)

LS2100e 8.5/11MVA: UBC Zone 4; IBC 1.8g Ss
LS2100e 14/22MVA: UBC Zone 4; IBC 2.45g Ss
LS2100e DFE: UBC Zone 4; IBC 2.8g Ss

Other:
Seller will meet the ATEX and other hazardous environment requirements defined in the scope of supply of this proposal. Additional requirements or Seller's site survey results may necessitate the design and installation of additional scope of supply and a corresponding adjustment to the pricing and delivery as presented.

This proposal assumes no hazardous environment exists for the proposed scope of supply. If ATEX or other hazardous environment requirements exist (including ancillary equipment such as junction boxes, conduit and glands), Seller may meet these requirements upon Buyer's detailed definition and request for an updated proposal.

Elevation:
- Normal operation: <= 1000 meters (101.3 – 89.8 KPa)
- Extended operation: 1001 – 3000 meters (89.8 – 69.7 KPa)
- For this specific application 1000 meters
- Shipping: 15000 feet maximum (57.2 KPa)

6.1.4 EX2100e Exciter Hardware

6.1.4.1 Enclosure

The new EX2100e control components will be installed in the existing system cabinetry. A new control case door will be provided.

6.1.4.2 EX2100 Technical Information Letters (TIL's)

A TIL (Technical Information Letter) is a notification of potential performance, safety or discretionary modifications to GE equipment. As part of our continuing service, GE has generated a series of TIL's which may be applicable to your EX2100. Please contact your Project Manager/Engineer to determine the latest applicable TIL's that apply to this unit. GE can provide a quote for implementation during installation of the DFE if desired.

PSB25132 100mm OLR Switch Actuator Arm Mis adjustment
PSB25023 100mm WBU Fuse Replacement
PSB25244 100mm ORL Switch Overheating
PSB25284 EX2100 and EX2100e Leaking Capacitors (42mm, 53mm, 77mm, 100mm)
PSB25287 100mm Line Filter Wiring Insulation Heating
PSB25308 Incorrect Settings Causing False Operation of Crowbar Module
PSB25266 100mm Missing Lexan Baffles
PSB25221 100mm Aluminum Bus Weld Augmentation
PSB25241 De-excitation Trip or Crowbar Trip on Running EX2100 Unit
PSB25243 De-excitation Conduction Stuck
TB01619 EX2100 Cell Stack Mica Sleeve Insulation (77mm, 53mm)

6.1.4.3 Control Module

The EX2100e redundant control architecture is based on three independent Unit Controller (Standalone) processors. The Unit Controller operates as a standalone module with no card rack or backplane. The Unit Controller interfaces to all I/O via five normalized serial interfaces including combinations of the following:

- Ethernet interface to the Unit Data Highway, ToolboxST, and Operator interfaces
- High Speed Serial Link (HSSL), a custom GE interface to product specific I/O

The EX2100e controls will be supplied in a redundant configuration, the Master 1 (M1) and Master 2 (M2) control sections each provide auto and manual regulator with autotracking of manual to auto, or auto to manual regulator. Bi-directional bumpless transfer and autotracking between active and backup controls is standard. The third control section (C) shares in the two of three voting of I/O and protection functions. The C control also serves to determine the health of M1 and M2 in allowing either operator selected or forced automatic transfer between M1 and M2. Redundant EX2100e controls utilizing this control architecture more than triple mean time between forced outages versus simplex controls.

(Typical redundant control module)

6.1.4.4 Power Bridge

Existing three-phase full wave rectified SCR bridges will be reused. New power bridges are not provided. Existing bridge cooling fans will be reused. New cooling fans are not provided.

6.1.4.5 Power Supply Module

Redundant power supply modules are used to provide 28 VDC power to the Unit Controller modules. These power supplies convert 125 VDC power delivered from the power distribution module (EDIS). In both simplex and redundant control configurations, each of the control sections are powered by two parallel power supplies. This power supply configuration prevents loss of power to the controllers due to a power supply failure. These power supplies are in the control panel.

6.1.4.6 Power Distribution Module

Control power is acquired from an external 125 VDC or 250 VDC source and one or two external 115 VAC or 230 VAC sources.

6.1.4.7 PT and CT Isolation Switches

These knife switches are used to isolate the PT and CT feedback signals from the voltage regulator.
A second PT switch is provided to allow for redundant generator terminal voltage feedback to the AVR.
A second CT switch is provided to allow for 2-phase sensing of generator current feedback.

6.1.4.8 Field Ground Detection

The generator field ground detector detects leakage resistance to ground from any point in the field circuit starting at the AC secondary windings of the input transformer through the excitation system and through the generator field. The active detection system applies a low voltage with respect to ground and monitors current flow through a high impedance ground resistor. When PRV resistors are present, grounds anywhere in the system can be detected even while the EX2100e is not running (gating SCRs). Without PRV resistors the grounds on the AC side of the power bridge can only be detected when the system is running.

This patented field ground detector has three main features:

- Constant sensitivity to grounds independent of operating voltages on the generator field.
- Constant sensitivity to grounds without regard to ground location in the generator field.
- Location detection of the field ground.

6.1.4.9 I/O Configuration

The EX2100e contains 7 programmable inputs and 4 general purpose programmable output relays. When required, these I/O points are used by the Buyer to control and monitor the EX2100e. Inputs are used for Start, Stop, Raise, Lower, Auto, Manual commands. Outputs are used to give status indication to the plant.
Inputs are rated for:
55VDC (wetting voltage from the EX2100e)

Outputs are rated for:
125 VDC nominal (24 VDC min)
Resistive Load - 2A @ 28 VDC
Resistive Load - 0.5A @ 120 VDC

If the existing EX2100 system has additional I/O beyond the standard I/O provided with EX2100 systems, the existing modules using either GE Versamax or GE IOnet will be reused.

6.1.5 Software Features

6.1.5.1 Control Functions

The following control functions are included:

- **Automatic Voltage Regulator (AVR)** - Regulates generator terminal voltage to within 0.10%. Adjustable control range limits are typically 90% - 110% of rated generator voltage.
- **Manual Voltage Regulator (FVR)** - Regulates generator field voltage within a typical control range of 20% - 120% of generator rated field voltage. For brushless excitation systems, a typical control range of 20% - 120% of exciter rated field current is used.
- **Automatic and Manual Regulator Reference Adjustment** -The settings of the upper and lower limits and raise and lower ramp times are adjustable.
- **Automatic and Manual Reference Followers**–Adjusts the non-active regulator output to automatically track the active regulator.
- **VAR/PF Controller** - This function is accomplished by slow ramping of the AVR reference set point. The VAR/PF control is selected by operator command and the VAR/PF set point is established using the “RAISE” and “LOWER” pushbuttons before enabling the VAR/PF command.

- **Reactive Current Compensation (RCC/LINE DROP)** - Reactive Current Compensation (RCC) (or "paralleling") mode, permits sharing reactive current between paralleled machines. Line Drop Compensation allows for better regulation at some point remote from the generator terminals.
- **Generator Field Temperature Calculation** - Calculates the generator field resistance by dividing the generator field voltage by the generator field current. An adjustable high temperature alarm output contact is also included.
- **Operator Control Simulator** - A powerful, detailed generator model is included within the EX2100e controls. It is configured to closely match the operation of the actual turbine/generator set. It can be used for operator training, and it provides for the checkout of regulators, limiters, and protection functions while the unit is shut down.
- **Power System Stabilizer (PSS)** - Provides an additional input to the AVR that improve power system dynamic stability performance. Uses a combination of synchronous machine electrical power and the integral of accelerating power (derived from a signal proportional to rotor speed) to provide the desired improvement in dynamic stability while enhancing transient stability.

6.1.5.2 Limiter Functions

The following limiter functions are included:

- **Volts per Hertz Limiter (V/Hz Lim)** - Acts to reduce an unacceptable volts/hertz ratio to the maximum continuous rating of the generator. The V/Hz Limiter set point is programmable.
- **Generator Field Current On-line Over Excitation Limiter** - Allows the exciter to fully respond to generator fault conditions for approximately one (1) second. Exceeding this delay results in activation of the first limit, a high current limiting set-point, typically 1.25 pu AFFL for 30 seconds. Generator field thermal capability is the basis for this limit. Once this limit has been implemented for 30 seconds activation of a second limit is initiated. This limit is typically programmed to be 1.0 pu AFFL.
- **Generator Field Current Off-line Over Excitation Limiter** - Limit maintains excitation of the machine within a range that prevents the operator from exceeding the Volts/Hz limit of the generator when in manual mode.
- **Under Excitation Limiter** - Prevents the AC regulator from reducing excitation to a level that could result in a loss of synchronism.
- **Manual Restrictive Limiter** - Limits the under-excited operation of the machine when the EX2100e is in manual mode.

6.1.5.3 Detection Functions

The following detection functions are included:

- **Potential Transformer Fuse Failure Detection (PTFD)** - Detects loss of PT feedback voltage to the voltage regulator.

6.1.5.4 Protection Functions

The following protection functions are included:

- V/HZ Protection.
- Generator Over Voltage Protection.
- Loss of Excitation Protection.
- Generator Field Current Over Excitation Protection.
- Instantaneous Bridge Over Current Protection.

6.1.5.5 Model and Settings Report (MSR)

The EX2100e excitation system is represented by the IEEE 421.5-2016 ST4C model.

GE will provide a consolidated summary of the key excitation system settings, parameters and capabilities in an included Model and Settings Report (MSR). The MSR is standardized to describe a wide range of excitation applications and models. This document is structured to simplify data accumulation and to aid the End-user's

development of regulatory submissions, reporting and serve as a baseline for establishing periodic validation, as may be required by the governing Independent System Operator or grid authority.

The report in its final state includes:

- ST4C Model
- Voltage Transducer Model
- Over Excitation Limiter Model
- Under Excitation Limiter Model
- V/HZ Limiter Model
- Loss of Excitation Protection Settings
- Field Overcurrent Protection Settings (online and offline, timed and instantaneous)
- Over Voltage Protection Settings
- V/Hz Protection Settings
- Field Ground Alarm and Protection Settings
- ST4C Model Validation (optional)

A timely completion of the MSR process allows for economic savings by permitting the validation concurrent with the commissioning of the excitation system. The development of the MSR process begins with completion of the Generator Data Form. Site data is an End-user responsibility.

The MSR process proceeds as follows:

a) GE receives the Generator Data Form from the End-user (typically at the kickoff meeting).

b) Submittal of this form early in the project, fully completed, provides the best cycle time of the process. In the case of a DFE or retrofit, “As Running” software of the existing exciter (or “as running” reports) should also be provided to provide the benefit of understanding “as running” characteristics.

c) GE issues MSR preliminary version to establish recommended settings. (Typically, 4-6 weeks after receipt of the fully completed Generator Data Form).

d) This submittal is useful for the End-user to review the proposed settings, and to make comparisons of the protection relay settings that should coordinate with the exciter protection and limiter settings.

e) The End-user applies marks to the report relative to coordination with the relay protection settings or other desired changes and return it to GE(Typically, 2 weeks).

f) GEdevelops a final parameter list suitable for factory test, incorporating the desired changes marked on the preliminary MSR (Typically, 2-4 weeks before the scheduled FAT).

g) If purchased, GEwill submit a final “as installed” version of the MSR (Typically 2-4 weeks after commissioning). Otherwise the preliminary MSR will be the final version.

Note: The MSR was developed to reduce End User overhead associated with regulatory compliance, but it is not intended to serve as a regulatory submission. Any additional compliance or model related studies and testing is excluded, unless offered elsewhere in this document.

6.1.6 Programming and Maintenance Tools

6.1.6.1 Capture Buffers

The EX2100e contains up to 4 programmable capture buffers. Each capture buffer can store up to 8 channels of data. Capture buffer sample rate and sample time are programmable. The four capture buffers are typically programmed to monitor START, STOP, FAULT and TESTING conditions. The capture buffers are programmed to re-trigger on subsequent events but can be programmed to trigger only one time until manually reset.

6.1.6.2 Trend Recorder

The GE Control System ToolboxST contains a trending function that allows up to 16 variables to be trended in real time. The update sample rate is approximately 50 msec.

6.1.6.3 Active Graphic Displays

The GE Control System ToolboxST contains advanced active graphic displays that define EX2100e operation.

6.1.6.4 Automated Testing Functions

The EX2100e contains advanced automated testing functions that are enabled using the GE Control System ToolboxST. Both step response testing and frequency response testing are available.

6.1.6.5 Generator/Exciter Feedback Oscillography

The EX2100e contains an advanced oscillography function that records an oscillograph of several generator and exciter feedback signals. These signals include PT voltages, CT currents, PPT secondary voltages, generator field current and generator field voltage, as well as other application dependent choices.

6.1.7 Operator Control Interfaces

6.1.7.1 Diagnostic Interface Keypad

Local control and indication are accomplished via a compact, multi-function, operator touchscreen unit (optional) mounted on the EX2100e cabinet door. Start/stop commands, regulator transfer commands, and regulator selection can be issued from the keypad. The keypad also includes meter displays for generator MW and Mvars, field current and voltage, and regulator balance. Diagnostic displays such as the alarm history, setup, application data, and I/O interface displays provide system information for service personnel.

(Local operator interface provides cost effective solution for diagnostics/operation)

6.1.7.2 Unit Data Highway (UDH)

The Unit Data Highway (UDH) connects the EX2100e with the GE turbine control system, Human-Machine Interface (HMI) or HMI Viewer/Data Server. The UDH utilizes the Ethernet Global Data (EGD) protocol.

The UDH provides a digital window into the EX2100e where variables can be monitored and controlled. It also supports the GE Control System ToolboxST configuration and maintenance tool for the EX2100e.

6.2 LS2100e Technical Description

6.2.1 LS2100e Static Starter Digital Front End (DFE)

Seller's DFE method is a more cost-effective means for a user to get updated controls while maintaining the existing source and load bridges. The controls migration approach consists of removing the old control system hardware and cabling and replacing it with new hardware, cabling, interface devices, and software. Using this approach minimizes the disturbance of the large power cabling and power electronic equipment, since all that remains intact. This method significantly reduces the overall outage time when compared to a full remove and replace alternative. The result is a static starter package that continues to provide many years of successful performance, effectively extending the life of your valuable assets.

Figure 1 below illustrates a typical simplified one-line diagram of a system architecture including the power source or grid, source switchgear (52SS), load switchgear (89SS), control module, and Power Conversion Module (PCM), as well as interfaces to the HMI, exciter, and Mark* VIe Turbine Control Panel (TCP).

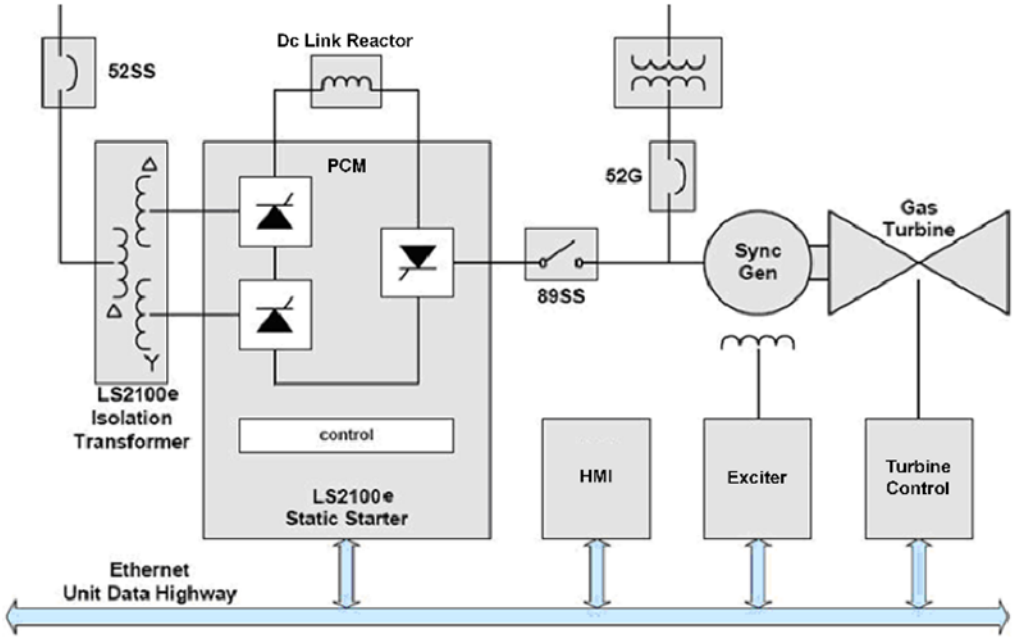


Figure 1 – Simplified One-Line Diagram

The LS2100e control contains a digital control that interfaces seamlessly with various GE turbine and excitation controls, including the Human-Machine Interface (HMI) and Historian products. These devices communicate with each other over an Ethernet-based data highway to form a fully integrated control system. The ToolboxST* application is used to configure the LS2100e control which is the same application used to configure the gas turbine and excitation controls.

Please refer to "GEI-100792 – Static Starter Product Description" for further details.

6.2.2 Control Hardware

Central to the LS2100e control system is Seller's latest UCSC unit control. The UCSC controller contains all control and protection features for the LS2100e control system. It interfaces to the control circuit boards through a high-speed serial point-to-point communication link (HSSL). The main gating interface board (LSGI) interfaces to the circuit boards in the power conversion cabinet to provide gating signals for the thyristors and collect voltage, current, and status feedback.
The LS2100e control system architecture supports Ethernet local area network (LAN) and will reside on the UDH network.

The LS2100e control typically contains the following components:

- Control power circuit breaker
- Control power transformer and power supplies
- Universal Controller Stand-alone Version
- Panel mounted relays
- LS2100e Static Starter I/O Terminal Board (LSTB)
- LS2100e Static Starter Gating Interface (LSGI) board
- Crossover (XOVR) power input and power supply (if the site has a Crossover feature)
- Customer terminal blocks

6.2.2.1 Current Transducer (LEM) Replacement

As part of this DFE migration the current transducers (commonly known as a LEM) located in the load bridge will be removed and replaced with new LEM units. These new LEM units provide current feedback to the LS2100e control system. A LEM kit is provided with the DFE migration package to minimize the effort required to replace these devices.

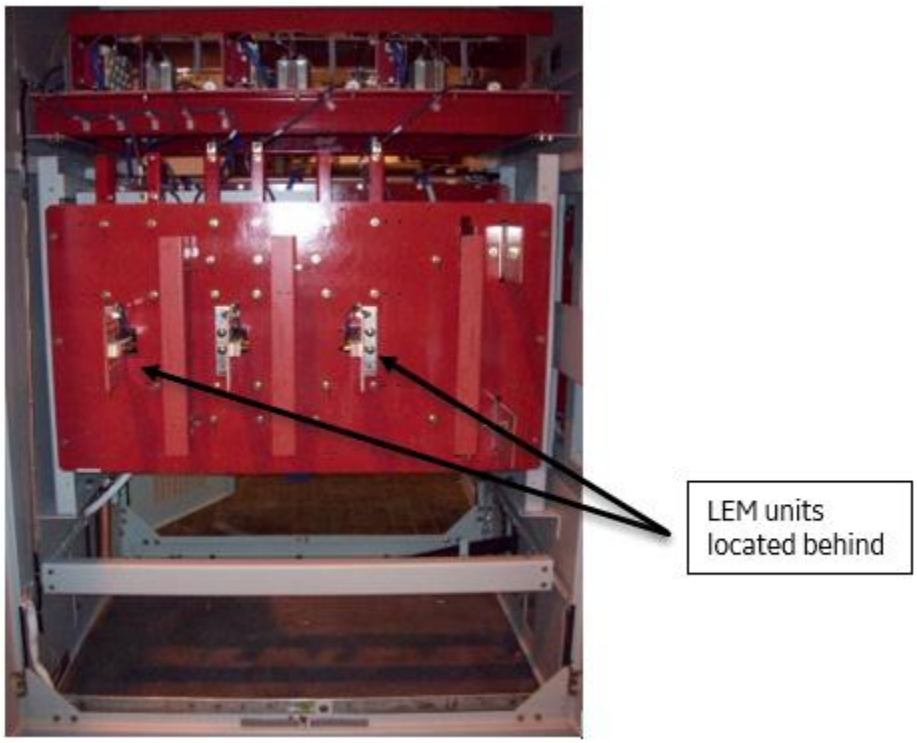


Figure 2 – Load Bridge and LEM location

6.2.2.2 NATO Board Modification KIT

As part of this DFE migration the NATO boards will be replaced with an upgraded version.

6.2.3 PROGRAMMING AND MAINTENANCE TOOLS

The LS2100e is commissioned and maintained using the GE Control System ToolboxST. ToolboxST is a Windows ® - based application used on the EX2100e and Mark VIe. This utility software has diagnostic, trending and logic forcing capabilities. The ToolboxST also contains editors for application software, I/O assignments and logic forcing capabilities. The Toolbox and the standard HMI screens will be installed in the context of the Mark VIe upgrade scope.

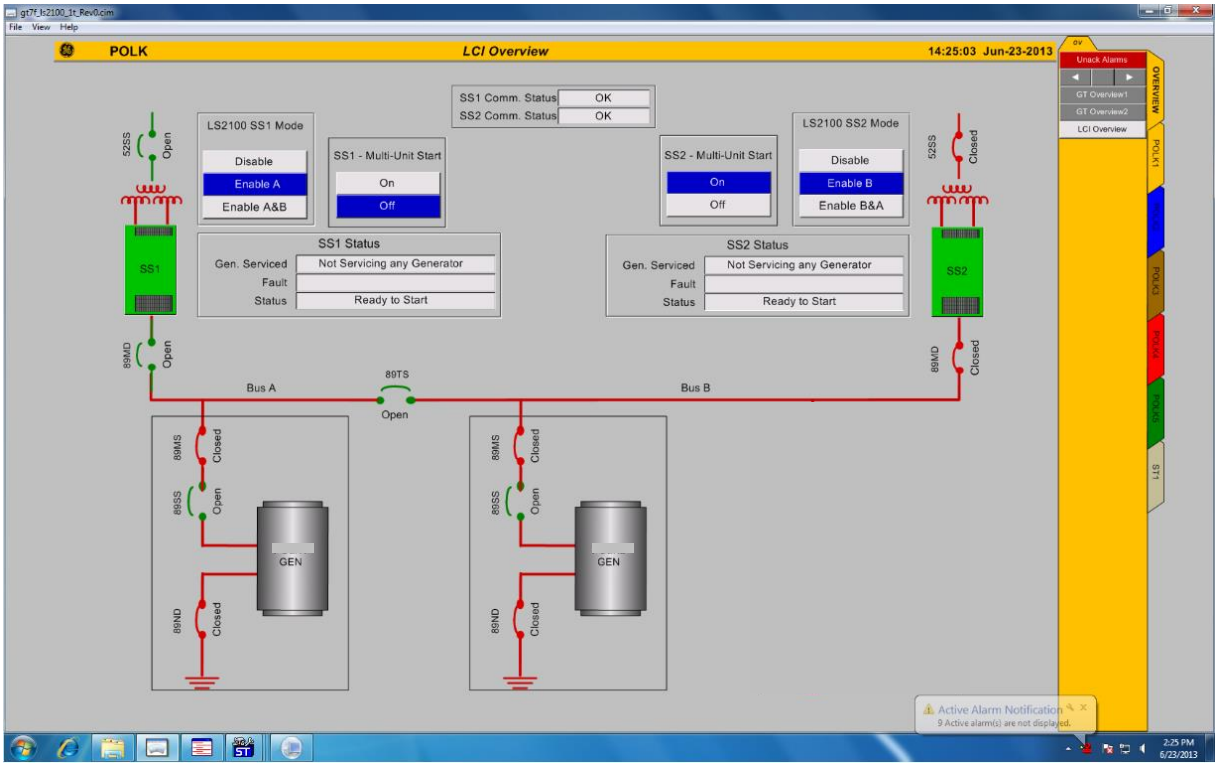


Figure 2 - (Typical HMI status screen for 2 on 2 static starters)

Seller will provide a new HMI screen for a 2 on 2 static starter configuration.

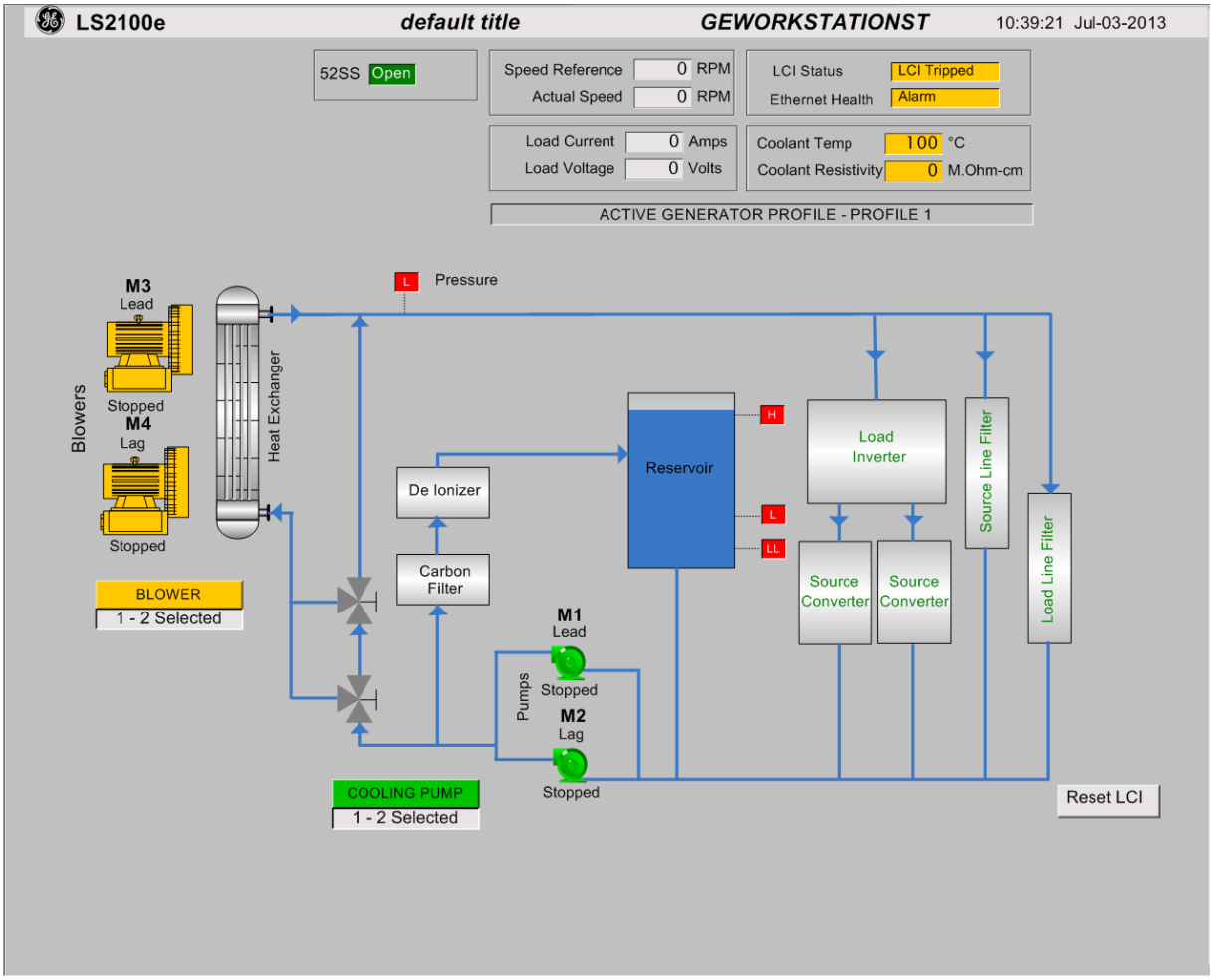


Figure 3 - (Typical HMI LCI running/cooling and status screen)

6.2.4 Supported Standards

LS2100e Static Starters are designed to operate within the constraints and conditions specified by the following, where specifically applicable to this equipment and/or the location/region of installation.

Standards:

- UL 508C Safety Standard Industrial Control Equipment
- CAN/CSA 22.2 No. 14 Industrial Control Equipment
- EN 50178
- Seismic UBC Zone 4
- CE Mark

6.2.5 Environmental Limits

LS2100e Static Starters are operable within the following environmental limits:

Temperature and Humidity:

- Ambient temperature: 0 to 40 ºC (32 to 104 ºF)
- Maximum rate of temperature change: 5º C (9º F) per minute

- Maximum relative humidity: 95% (non-condensing)

Seismic:
- LS2100e 8.5/11MVA: UBC Zone 4; IBC 1.8g Ss
- LS2100e 14/22MVA: UBC Zone 4; IBC 2.45g Ss
- LS2100e DFE: UBC Zone 4; IBC 2.8g Ss

Elevation:
- Normal operation: < 1000 meters)

6.2.6 Summary of standard scope of work

A. Control cabinet
- Verify that the electrical drawings are accurate for the equipment (Wire #s, connection points, new devices by Customer)
- Verify that all wires are labeled. Add labels to any wires if needed
- Remove old control components and replace with new DFE equipment
- Reinstall the wiring per the new design drawings. Wire out to devices located in other cabinets

B. Pump panel
- Remove old resistivity sensor and replace with a new sensor
- Remove old resistivity meter and replace with a new meter
- Remove Genius I/O (if needed)
- Install new wiring to the pump panel per the new design drawings

C. Load bridge
- LEM updates (if needed)
- NATO board replacement (if needed)
- FGPA board replacement (if needed)

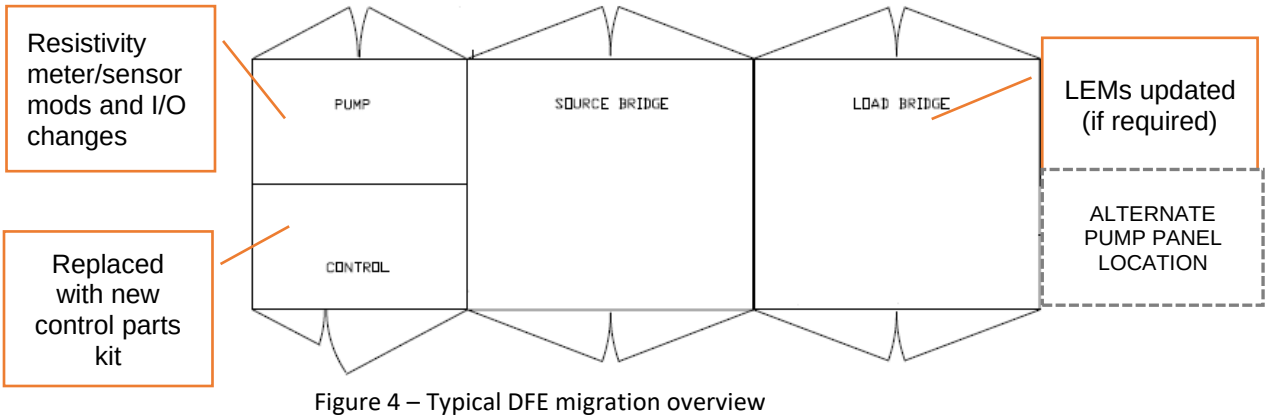


Figure 4 – Typical DFE migration overview

6.2.7 Technical Information Letters (TIL's)

A TIL (Technical Information Letter) is a notification of potential performance, safety or discretionary modifications to GE equipment. As part of our continuing service, GE has generated a series of TIL's which may be applicable to your Static Starter System. Please contact your Project Manager/Engineer to determine the latest applicable TIL's that apply to this unit. GE can provide a quote for implementation during installation of the DFE if desired.

CSB25276	LCI and LS2100 Cooling System Check Valve and Orifice Degradation
CSB25181	LS2100 or Innovation Series Static Starter tripping on Ground Fault from DC Link Reactor
PSB25188	Grounding Recommendations to Prevent DC Link Reactor Enclosure Sparking - LS2100 and Innovation Series LCI
PSB25153	Heat Sinks - Coolant Leak in Assembly
PSB25116	Fault in Static Starter Inappropriately Trips the Gas Turbine
TB24000	LCI Leaking Capacitors
TB21025	EGD Healthy Cross Check in LS2100 Crossover Software
TB04703	DS200NATOG#Axx (NATO) Resistor Failures
PSB25192	LS2100 8.5 MVA Static Starter Bus Bolt Torque Inspection
TIL 1319-1	Multiple Gas Turbine Sets with a Common LCI
TIL 1356-1	Multiple Gas Turbine Sets with Multiple LCI Crossover Units
TIL 1729	LCI Fuse Replacement
TIL 1414-3 R1	Design Enhancement for LCI Coolant Reservoir
TIL 1477-1	Protection of Static Starter (LCI/LS2100) from Overvoltage Conditions
TIL 1648	Maintenance of LCI 89SS and 89ND Switches
TIL 2065	Prevention of Static Starter Startup Issues Cause by NATO Resistors
TIL 1755-R2	LCI Water-Cooled Bus Leaks
TIL 1750	Leakage of Water-Cooled Resistors in Innovation Series Static Starters
TIL 1782	LS2100 Software Modification for Two Tie-Switch Crossover
TIL 2009	89SS and 89ND Switch Toggling
TIL 1831	Mixing Recommendations for Series Cells

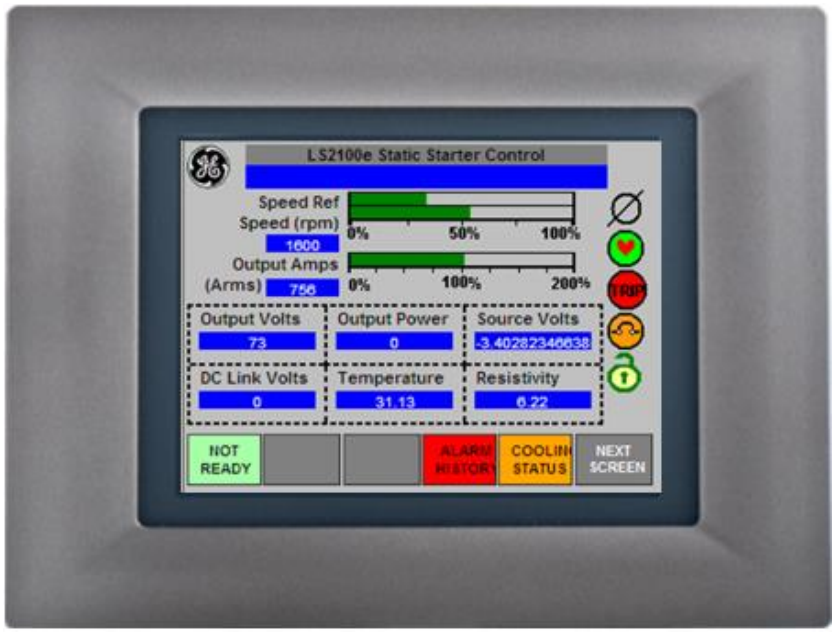
6.3 Operator Control Interfaces

6.3.1 Networking

The HMI'S on the UDH network will become the primary operator interface for the LS2100e. The DFE LCIs will be connected to the network (4108). The LS2100e DFE requires software changes in the Turbine Controllers, Exciters, and HMIs for a complete commissioning effort. Standard HMI LCI running/cooling and status screens are provided with the upgrade.

6.3.2 Diagnostic Interface Keypad

Local control and indication is accomplished via a compact, multi-function, operator touchscreen unit (optional) mounted on the LS2100e cabinet door. Diagnostic displays will provide system information for service personnel.



(Local operator interface provides cost effective solution for diagnostics/operation)

6.4 Product Descriptions and/or Sales Brochures

- GEA-S1240 - EX2100e Excitation Control Sales Brochure for Gas Turbine Generators
- GEA-S1302 - EX2100e Static Excitation System Product Description
- GEH-6787 - EX2100e Digital Front-end Thyristor Control
- GEI-100792 - Static Starter Product Description

Formal Bid and Award System

Award #11 November 18, 2021

Type of Award Request: INVITATION FOR BID (IFB)
Request #: NA
Requestor Name: Jessica Keeler
Requestor Phone: (904)665-6403
Project Title: Miscellaneous Electrical Items for JEA Inventory Stock
Project Number: Various
Project Location: JEA
Funds: Inventory Blanket Account
Budget Estimate: $822,860.24
Scope of Work:

The purpose of this Invitation for Bid (IFB) is to solicit pricing for five hundred and sixty seven (567) Miscellaneous Electrical Items for JEA Inventory Stock. The primary use of these items is to support the operations of JEA and can be best described as general electrical items ranging from meter locking rings to bushings and capacitor banks. During the last 12 months, the commodity spend for these items was $822,860.24. At the time of the bid release, the inventory balance for the items found in this solicitation was $1,403,703.46 with the average current lead time of 17-112 days depending on the item.

JEA IFB/RFP/State/City/GSA#: 1410413447-21
Purchasing Agent: Eddie Bayouth
Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Vendor Contact	Email	Address	Phone	Amount
STUART C IRBY CO.	Erich Ewoldt	ewoldt@irby.com	38 Skyline Drive, Lake Mary, FL 32746	407-415-6268	$156,600.47
ANIXTER INC.	Renee Lackey	renee.lackey@anixter.com	3881 Old Winter Garden Road, Orlando, FL 32805	352-408-3898	$565,696.99
GRESCO SUPPLY INC.	Chris Therien	christopher.therien@gresco.com	6421 County Road 219, Wildwood, FL 34785	352-446-7536	$171,047.00
ENGLEWOOD ELECTRICAL SUPPLY	Joseph Love	jlove@eescodist.com	6500 Bowdendale Ave, Jacksonville, FL 32216	904-731-5900	$124,474.43

Amount for entire term of Contract/PO: $1,017,818.89
Award Amount for remainder of this FY: $848,182.41
Length of Contract/PO Term: One (1) Year w/ Two (2) – 1 Yr. Renewal
Begin Date (mm/dd/yyyy): 12/06/2021
End Date (mm/dd/yyyy): 12/05/2022
Renewal Options: Two (2) – 1 Yr. Renewal
JSEB Requirement: N/A – Optional

BIDDERS:

Name	Number of Items Bid	Bid Value
STUART C IRBY CO.	47	$228,449.75
ANIXTER INC.	187	$828,888.76
GRESCO SUPPLY INC	2	$171,047.00
ENGLEWOOD ELECTRICAL SUPPLY	289	$157,037.98

Background/Recommendations:
Advertised on 09/21/21. There was no pre-response meeting for this solicitation. At Response opening on 11/02/2021, JEA received four (4) Responses.

In order to leverage JEA's spend for Miscellaneous Electrical Items included in JEA Inventory, the internal team identified five hundred and sixty seven (567) items deemed a good fit to be included in this initiative. During the last 12 months, most of these items were purchased through blanket purchase agreements.

The evaluation criteria for this bid was that the total lowest cost provider for each respective item would win, as long as the minimum qualifications were met and they quoted the correct JEA approved manufacturer and manufacturer part number. JEA evaluated the companies on price only, and the companies in the Recommended Awardees Table above are deemed to be the lowest responsive and responsible respondents for four hundred thirty eight (438) items. A copy of the Bid Analysis Workbook is attached as backup. There will not be an award made for one hundred and twenty nine (129) of the items as none of the vendors submitted unit pricing for these items. This was mainly due to manufacturers not being willing to lock in pricing for a year. These items will be purchased on a spot buy during the term of this one year contract.

Even with the aggregations of items and competitive bidding, JEA will realize an estimated cost increase via unit price increase totaling $194,958.65 or 23.69%.

Procurement tracks two different types of savings. The total cost difference is comparing the current pricing with the proposed pricing (+/-). The total sourcing savings is determined by value added savings. Below is the result for this award:

Total cost difference: $194,958.65 (unit price increase) = ($194,958.65)
Total sourcing savings: There were no total sourcing savings on this solicitation.

Despite increases, JEA believes securing these items under contract will be advantageous long term from a cost and supply standpoint. JEA ensured there was competition for the included items, improved the procurement process, and reduced overall supply chain risk by being able to secure fixed pricing for the term of the contract for the items being awarded.

1410413447-21 – Request approval to award contracts to STUART C IRBY CO. ($156,600.47), ANIXTER INC. ($565,696.99), GRESCO SUPPLY INC. ($171,047.00) and ENGLEWOOD ELECTRICAL SUPPLY ($124,474.43) for the supply of Miscellaneous Electrical Items carried in JEA's inventory stock for a total amount of $1,017,818.89 subject to the availability of lawfully appropriated funds.

Manager: Kenny Pearson – Procurement Category Manager
Director: Jenny McCollum – Director, Procurement Services

VP: Alan McElroy – VP Supply Chain & Operations Support

APPROVALS:

_____

Chairman, Awards Committee **Date**

_____

Budget Representative **Date**

Bid Analysis Miscellaneous General Electrical Items for JEA Inventory Stock

RECOMMENDED AWARDEES:

Name	Vendor Contact	Email	Address	Phone	Amount
STUART C IRBY CO.	Erich Ewoldt	ewoldt@irby.com	38 Skyline Drive, Lake Mary, FL 32746	407-415-6268	$156,600.47
ANIXTER INC.	Renee Lackey	renee.lackey@anixter.com	3881 Old Winter G	352-408-3898	565696.99
GRESCO SUPPLY INC.	Chris Therien	christopher.therien@gresco.com	6421 County Road 219, Wildwood, FL 34785	352-446-7536	$171,047.00
ENGLEWOOD ELECTRICAL SUPPLY	Joseph Love	jlove@eescodist.com	6500 Bowdendale Ave, Jacksonville, FL	904-731-5900	$124,474.43

						ANIXTER		ENGLEWOOD		GRESCO		Irby		
JEA Item ID	Item Description	Mfg Name Mfg Part Number	Quoted Mfg. & Part Number	UOM	Estimated One Year Usage	Quoted Unit Price	Proposed Bid Price	Quoted Unit Price	Proposed Bid Price	Quoted Unit Price	Proposed Bid Price	Quoted Unit Price	Proposed Bid Price	Winning Bidder
ACPEM015	COMPRESSOR, AIR, 190 PSI, JENNY(EMGLO) FW60T, FOR WH SF6 GCB, TYPE 690SP40, S/N 3-67Y1377, I.B. 33-570-BM-1,	ABB POWER T & D 266C488H01 EMGLO PRODUCTS CORP. FW60T SIEMENS 72-181-783-801	0	EA	1	0	$ -	$ 2,500.00	$ 2,500.00	$ -	$ -	$ -	$ -	Englewood
ADCMI006	POWER PATCH; ONE SEALED BAG WITH 2-PART SEALANT (PART A & B), PUTTY STICK (1-3/4"), 2 TYPE TR CLEANING AND PREPARATION WIPES, 12" SANDPAPER STRIP, 2 MIXING STICKS, 1 PAIR GLOVES, AND INSTRUCTIONS.	POLYWATER EP-KIT11	0	EA	10	0	$ -	$ 79.13	$ 791.29	$ -	$ -	$ -	$ -	Englewood
ADPCA005	ADAPTER, 500MCM CABLE SLEEVE, FOR 600AMP RATED TERMINATIONS	ELASTIMOLD 655CAK	ELASTIMOLD 655CAK	EA	1	21.35	$ 21.35	$ 23.46	$ 23.46	$ -	$ -	$ -	$ -	Anixter
ADPCA010	ADAPTER, 1/O CABLE SLEEVE, FOR 600 AMP RATED TERMINATIONS	ELASTIMOLD 655CA-J	ELASTIMOLD 655CA-J	EA	1	21.35	$ 21.35	$ 23.46	$ 23.46	$ -	$ -	$ -	$ -	Anixter
ADPCG001	ADAPTER, CABLE GUARD, 6" X 5"	CUSTOM PLASTICS, INC. CPI-96500 ELECTRICAL MATERIALS CO. PEAD5-6V	ELECTRICAL MATERIALS CO. PEAD5-6V	EA	1	49	$ 49.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
ADPPI002	ADAPTER PLATE, BRACED LINE POST INSULATORS. USED ON ANGLES TO PREVENT CONDUCTOR FROM CONTRACTING INSULATOR SHEDS.	BETHEA POWER PRODUCTS C-7689-6	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ANCAE005	THIMBLEYE, 17" X 2.00" SQUARE SHAFT	CHANCE T110-0312	0	EA	1	0	$ -	$ 177.75	$ 177.75	$ -	$ -	$ -	$ -	Englewood
ANCEX005	EXTENSION, ANCHOR, 22200, 58" X 2.00" SQUARE SHAFT	CHANCE C110-0564	0	EA	1	0	$ -	$ 299.79	$ 299.79	$ -	$ -	$ -	$ -	Englewood
ANCMS005	ANCHOR, 2" SQUARE SHAFT, 15,000# TORQUE, 6" X 8" X 10"	CHANCE C110-0569	0	EA	1	0	$ -	$ 580.22	$ 580.22	$ -	$ -	$ -	$ -	Englewood
ARMST013	ARM, STEEL SHIELD, 9'-0" LENGTH X 2'-3" RISE, "SUPPLIED WITH 9/16" HOLE IN LINE END BRACKET FOR MOUNTING OF GROUNDING PROVISIONS", SHIP ON OPEN FLATBED ONLY!	HUGHES BROTHERS 4020BB9.0EL33G	0	EA	27	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ARRST003	ARRESTER, SURGE, STATION CLASS, RATED 3 KV, RATED 2.55 KV MCOV, POLYMER CONSTRUCTION FOR SUBSTATION 4 KV TRANSFORMERS & BUS ***MUST COMPLY WITH IEEE STANDARD C62.11-1993***	ABB POWER T & D Q003SA002A COOPER POWER SYSTEMS UHAA003002A0845A11 GENERAL ELECTRIC CO. 9L11XPA003AS	COOPER POWER SYSTEMS UHAA003002A0845A1	EA	3	286.8125	$ 860.44	$ -	$ -	$ -	$ -	$ 351.75	$ 1,055.25	Anixter
ARRST013	ARRESTER, SURGE, STATION CLASS, RATED 15 KV, RATED 12.7 KV MCOV, POLYMER CONSTRUCTION FOR SUBSTATION 13.2 KV TRANSFORMER WITH UNGROUNDED NEUTRAL (EASTPORT T-1) ***MUST COMPLY WITH IEEE STANDARD C62.11-1993***	ABB POWER T & D Q015SA012A COOPER POWER SYSTEMS USAA015012A1245A11 GENERAL ELECTRIC CO. 9L11XPA015S OHIO BRASS 314013-3001	COOPER POWER SYSTEMS USAA015012A1245A11	EA	27	363.875	$ 9,824.63	$ -	$ -	$ -	$ -	$ 431.72	$ 11,656.44	Anixter
ARRST042	ARRESTER, SURGE, STATION CLASS, RATED 54 KV, RATED 42 KV MCOV, POLYMER CONSTRUCTION, FOR SUBSTATION 69 KV TRANSFORMERS, BUSES, & PIPE-TYPE TERMINATIONS***MUST COMPLY WITH IEEE STANDARD	ABB POWER T & D Q054SA042A COOPER POWER SYSTEMS UHAA054042A3045A11 GENERAL ELECTRIC CO. 9L11XPA054AS HUBBELL POWER SYSTEMS, INC. EVP004210-3001	COOPER POWER SYSTEMS UHAA054042A3045A1	EA	6	863.9625	$ 5,183.78	$ 935.35	$ 5,612.12	$ -	$ -	$ 826.08	$ 4,956.48	Irby
BAYSW002	BAYONET, SHIELD WIRE, BRACED, 84" LENGTH, (THIS ITEM MUST BE SHIPPED ASSEMBLED)	FABRICATED METALS CB84 HUGHES BROTHERS AS2613-F4 POWERLINE HARDWARE CO. GWB 84 C UTILITIES SERVICE 5047	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BKTLL001	BRACKET, LOW PROFILE LIGHTING, DOUBLE, ***USE WITH ID #POL-LP-001***	HOLOPHANE CSC30-CA/BK	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BKTRG001	BRACKET, 18 FOOT, HEAVY DUTY, ALUMINUM REGULATOR PLATFORM, WITH BYPASS SWITCH MOUNTING CHANNELS, AND ONE POLE KIT. SHIPPED ASSEMBLED ON FLAT-BED TRUCK.	BARFIELD MANUFACTURING CO. BPEHD-183 W/ BAOHSM-18-PAIR	BARFIELD MANUFACTURING CO. BPEHD-183 W/ E	EA	1	8113.2975	$ 8,113.30	$ -	$ -	$ -	$ -	$ 6,811.20	$ 6,811.20	Irby
BKTRG002	BRACKET, 22 FOOT, EXTRA-HEAVY DUTY, ALUMINUM REGULATOR PLATFORM, WITH BYPASS SWITCH MOUNTING CHANNEL(S), AND TWO THIRD-POLE KITS. SHIPPED ASSEMBLED ON FLAT-BED TRUCK.	BARFIELD MANUFACTURING CO. BPSEHD-224 W/ BAOHSM-22-PAIR	BARFIELD MANUFACTURING CO. BPSEHD-224 W/	EA	1	11715.5025	$ 11,715.50	$ -	$ -	$ -	$ -	$ 9,835.20	$ 9,835.20	Irby
BKTSM005	BRACKET, SWITCH MOUNTING, FOR MOUNTING BYPASS SWITCHES ON POLES FOR PRIMARY METERING (VERTICAL CONST.)	ACTION MANUFACTURING AM1-992 ACTION MANUFACTURING UUP-236	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid

BOLDA030	BOLT, 7/8" X 14", DOUBLE ARMING, GALV. WITH 4 SQUARE NUTS ATTACHED, (MUST BE SHIPPED IN STD. BOX QUANTITIES OF 15 EACH)	HUGHES TR-814-F JOSLYN MANUFACTURING CO. J9114 POWERLINE HARDWARE CO. DAB7814F STEEL CITY DB1456BG	POWERLINE HARDWARE CO. DAB7814F	EA	15	7.42	$ 111.30	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BOLDA031	BOLT, 7/8" X 16", DOUBLE ARMING, GALV. WITH 4 SQUARE NUTS ATTACHED, (MUST BE SHIPPED IN STD. BOX QUANTITIES OF 15 EACH)	HUGHES TR-816-F JOSLYN MANUFACTURING CO. J9116 POWERLINE HARDWARE CO. DAB7816F STEEL CITY DB1464BG THREADED FASTENERS INC. 87C1600BDAG/MFG/W4ON	THREADED FASTENERS INC. 87C1600BDAG/MFG/	EA	15	20.16	$ 302.40	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BOLDA034	BOLT, 7/8" X 22", DOUBLE ARMING, GALV. WITH 4 SQUARE NUTS ATTACHED, (MUST BE SHIPPED IN STD. BOX QUANTITIES OF 10 EACH)	HUGHES TR-822-F JOSLYN MANUFACTURING CO. J9122 STEEL CITY DB1488BG THREADED FASTENERS INC.	THREADED FASTENERS INC. 87C2200BDAG/MFG/	EA	10	20.86	$ 208.60	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BOLDA036	BOLT, 7/8" X 30", DOUBLE ARMING, GALV. WITH 4 SQUARE NUTS ATTACHED, (MUST BE SHIPPED IN STD. BOX QUANTITIES OF 5 EACH)	HUGHES TR-830-F JOSLYN MANUFACTURING CO. J9130 POWERLINE HARDWARE CO. DAB7830F STEEL CITY DB14120BG THREADED FASTENERS INC. 87C3000BDAG/MFG/W4ON	POWERLINE HARDWARE CO. DAB7830F	EA	30	12.474	$ 374.22	$ 9.33	$ 279.90	$ -	$ -	$ -	$ -	Englewood
BOLDA037	BOLT, 7/8" X 32", DOUBLE ARMING, GALV. WITH 4 SQUARE NUTS ATTACHED, (MUST BE SHIPPED IN STD. BOX QUANTITIES OF 5 EACH)	HUGHES TR-832-F JOSLYN MANUFACTURING CO. J9132 STEEL CITY DB14128BG THREADED FASTENERS INC. 87C3200BDAG/MFG/W4ON	THREADED FASTENERS INC. 87C3200BDAG/MFG/	EA	5	25.41	$ 127.05	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BOLDA038	BOLT, 7/8" X 34", DOUBLE ARMING, GALV. WITH 4 SQUARE NUTS ATTACHED, (MUST BE SHIPPED IN STD. BOX QUANTITIES OF 5 EACH)	HUGHES BROTHERS TR834-F JOSLYN MANUFACTURING CO. J9134 STEEL CITY DB14136BG THREADED FASTENERS INC. 87C3400BDAG / MFG / W4ON	THREADED FASTENERS INC. 87C3400BDAG / MFG	EA	5	30.45	$ 152.25	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BOLDA039	BOLT, 7/8" X 36", DOUBLE ARMING, GALV. WITH 4 SQUARE NUTS ATTACHED, (MUST BE SHIPPED IN STD. BOX QUANTITIES OF 5 EACH)	HUGHES BROTHERS TR836-F JOSLYN MANUFACTURING CO. J9136 STEEL CITY DB14144BG THREADED FASTENERS INC. 87C3600BDAG/MFG/W4ON	THREADED FASTENERS INC. 87C3600BDAG/MFG/	EA	5	32.55	$ 162.75	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BOLEY001	BOLT, EYE, 5/8" X 8", GALVANIZED, WITH SQUARE NUT ATTACHED ANSI, ASTM AND NEMA STANDARDS	ALLIED BOLT, INC. 4102 CHANCE 29958 DIXIE ELECTRIC D29958 FLORIDA WIRE AND CABLE FW9408 JOSLYN HI-VOLTAGE CORP. J9408 MC GRAW EDISON DF2E8 POWERLINE HARDWARE CO. P9408 THREADED FASTENERS INC. TF9408 UTILITIES SERVICE 25009	ALLIED BOLT, INC. 4102	EA	1	3.92	$ 3.92	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BOLEY006	BOLT, EYE, 5/8" X 18", GALVANIZED, WITH SQUARE NUT ATTACHED	ALLIED BOLT, INC. 4107 CHANCE 29968 DIXIE ELECTRIC D29968 FLORIDA WIRE AND CABLE FW9418 JOSLYN HI-VOLTAGE CORP. J9418 MC GRAW EDISON DF2E18 THREADED FASTENERS INC. TF9418	MC GRAW EDISON DF2E18	EA	5	2.688	$ 13.44	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BOLMS033	BOLT, MACHINE, 3/4" X 8", SQUARE HEAD GALVANIZED STEEL, W/SQUARE NUT ATTACHED, (MUST BE SHIPPED IN STD. BOX QUANTITIES OF 50 EACH)	ALLIED BOLT, INC. 8238 ALUMA-FORM AF8908 CHANCE 8908 DIXIE ELECTRIC D8908 FLORIDA WIRE AND CABLE FW8908 HUGHES B78 JOSLYN HI-VOLTAGE CORP. J8908 MC GRAW EDISON DF4B8 POWERLINE HARDWARE CO. P8908 STEEL CITY SC8208BG	ALUMA-FORM AF8908	EA	50	3.42	$ 171.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BOLMS044	BOLT, MACHINE, 3/4" X 32", SQUARE HEAD GALVANIZED STEEL, W/SQUARE NUT ATTACHED, (MUST BE SHIPPED IN STD. BOX QUANTITIES OF 10 EACH)	ALLIED BOLT, INC. 82623 HUGHES B732-8 JOSLYN HI-VOLTAGE CORP. J8932 STEEL CITY SC12128BG THREADED FASTENERS INC. TF8932	ALLIED BOLT, INC. 82623	EA	10	9.52	$ 95.20	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BOLMS077	BOLT, MACHINE, 7/8" X 40", SQUARE HEAD GALVANIZED STEEL. W/SQUARE NUT ATTACHED	VICTORY BOLT & SPECIALTY INC. 78940 SQMB HDG W/NUT	0	EA	4	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BOLMS078	BOLT, MACHINE, 7/8" X 42", SQUARE HEAD GALVANIZED STEEL. W/SQUARE NUT ATTACHED	VICTORY BOLT & SPECIALTY INC. 78942 SQMB HDG W/NUT	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BOLMS079	BOLT, MACHINE, 7/8" X 44", SQUARE HEAD GALVANIZED STEEL. W/SQUARE NUT ATTACHED	VICTORY BOLT & SPECIALTY INC. 78944 SQMB HDG W/NUT	0	EA	4	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BOLMS080	BOLT, MACHINE, 1" X 36", SQUARE HEAD GALVANIZED STEEL. W/SQUARE NUT ATTACHED	VICTORY BOLT & SPECIALTY INC. 1836 SQMB HDG W/NUT	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BOLMS081	BOLT, MACHINE, 1" X 38", SQUARE HEAD GALVANIZED STEEL. W/SQUARE NUT ATTACHED	VICTORY BOLT & SPECIALTY INC. 1838 SQMB HDG W/NUT	0	EA	4	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BOLMS082	BOLT, MACHINE, 1" X 40", SQUARE HEAD GALVANIZED STEEL. W/SQUARE NUT ATTACHED	VICTORY BOLT & SPECIALTY INC. 1840 SQMB HDG W/NUT	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BOLMS083	BOLT, MACHINE, 1" X 42", SQUARE HEAD GALVANIZED STEEL, W/SQUARE NUT ATTACHED	VICTORY BOLT & SPECIALTY INC. 1842 SQMB HDG W/NUT	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BOLMS084	BOLT, MACHINE, 1" X 44", SQUARE HEAD GALVANIZED STEEL. W/SQUARE NUT ATTACHED	VICTORY BOLT & SPECIALTY INC. 1844 SQMB HDG W/NUT	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BOXLD001	TOP, SERVICE BOX-POLYMER CONCRETE TOP, FOR BOXSE001 SERVICE BOX, COVER DIMENSIONS = 17.5"W X 30.5"L X 2"THICK, SEE POLYMER CONCRETE SERVICE BOX SPEC FOR MORE INFO	HIGHLINE PRODUCT CORP. CHC173002HE0000101JEA	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BOXSP004	BOX, GROUNDING, CONCRETE, TRAFFIC BEARING, 9-INCH OPENING. WITH 11-INCH CAST IRON ELECTRIC LID.	CHRISTY JX-G8-BOX-GSC-ELECTRIC	0	EA	28	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BRCCX001	BRACE, "X", WOOD, FIR, POLE SPACING CENT ER TO CENTER 10'- 0", CROSS-SECTION WOOD 3-3/8" X 4-3/8", (1 EACH = 1 PAIR) CROSS BRACING SHOULD INCLUDE CENTER CLAMP AND MOUNTING HARDWARE.	BROOKS MFG. CO. 6680-10-0 HUGHES BROTHERS 1042-10-0-CPT	0	EA	3	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BRCCX004	BRACE, "X", WOOD, FIR, POLE SPACING CENTER TO CENTER 14'- 0", CROSS-SECTION WOOD 3-3/8" X 4-3/8", CROSS BRACING SHOULD INCLUDE THE CENTER CLAMP AND HARDWARE.	BROOKS MFG. CO. 6680-14-0 HUGHES BROTHERS 1042-14-0-CPT	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BRCCX005	BRACE, "X", WOOD, FIR, POLE SPACING CENT ER TO CENTER 19'- 6", CROSS-SECTION WOOD 3-11/16" X 8-1/2" CROSS BRACING SHOULD INCLUDE THE CENTER CLAMP AND MOUNTING HARDWARE.	HUGHES BROTHERS 2056-19-6-CPT	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BUSS1003	BUSHING, 242 KV, TBI, 800T-1200T/1600B AMP, DWG.#3943C275, L-60" , TRANSFORMER APPLICATIONS REQUIRE THREAD-ON CABLE EXTENDER ***	ABB POWER T & D 196W0800XA w/ 1ZUA264308-BAA P-CORE POC900G0800CPS	ABB POWER T & D 196W0800XA w/ 1ZUA264308-	EA	1	16489.2	$ 16,489.20	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BUSS1005	BUSHING, 242 KV, TBI, 800-1200/1600 AMPS AT 95 DEGREE/ 80 DEGREE C. L-59 1/2", DWG. #SD867670-70	LAPP B-67670-23-70 P-CORE POC900G0800CPS w/ B-316597-05	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BUSS1010	BUSHING, 242 KV, 1600/2000 AMP, L-50.25" DWG.#7316D97G12, ABB STYLE #196A1620TE,	ABB POWER T & D 196W1620UW LAPP B-67439-70 P-CORE PC750G2500Z015 (MATCHES LAPP P-CORE POC900G2500Z053 (MATCHES WH 77	ABB POWER T & D 196W1620UW	EA	1	24193	$ 24,193.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BUSS2022	BUSHING, ENTRANCE, 138 KV, 800 AMP, BIL 650 KV, ABB CAT.#W11B410BB FOR PAUWELS MOBILE TRANSFORMER S/N 97980992	ABB POWER T & D 138W0800AA P-CORE POC650G0800S W/B-316597-02	ABB POWER T & D 138W0800AA	EA	1	8091.2	$ 8,091.20	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BUSS4029	BUSHING, 69 KV, 2000 AMP, 350 KV BIL, FOR G.E. TRANSFORMER S/N H-409443 AND S/N H-409444, G.E. CAT #7B593BBG2.	ABB POWER T & D 069W2000UD P-CORE B-88022-129-70 P-CORE B-88022-308-70 MATCHES ABB # 0	ABB POWER T & D 069W2000UD	EA	1	8326.5	$ 8,326.50	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BUSS4030	BUSHING 69 KV 2000 AMP 420 KV BIL FOR GE OIL CIRCUIT BREAKER TYPE FK-69-5000-2 S/N 0139A9171-	ABB POWER T & D 069W2000UN	ABB POWER T & D 069W2000UN	EA	1	10311.6	$ 10,311.60	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BUSS4035	BUSHING, 69 KV, 400 AMP, BIL-350 KV, FOR GENERAL ELECTRIC TRANSFORMER, S/N C-658032, G.E. CAT #7B719G3.	ABB POWER T & D 069Z0400BC P-CORE B-89593-61-70	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid

BUSS5011	BUSHING, 34.5 KV, 400 AMP, TYPE-T, L-9.688", DWG.#P-3946B584	ABB POWER T & D 034T0040HC	ABB POWER T & D 034T0040HC	EA	1	4707.3	$ 4,707.30	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
BUSS6013	BUSHING, 23 - 27.4 KV, 1200 AMP, BIL 150 KV, FOR SIEMENS OCB TYPE SDO-30-12.5. ALSO FITS I-T-E OCB TYPE 23KS500-6.	P-CORE B-63411-8-70 SIEMENS 72-113-993-022	0	EA	9	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
BUSWI001	BUSHING WELL INSERT, 25KV, 200AMP, 12SKV B.I.L., LOAD-BREAK, (STD PKG. 50 EACH)	COOPER POWER SYSTEMS 2637612C01M COOPER POWER SYSTEMS LBI225 ELASTIMOLD 2701-A4	ELASTIMOLD 2701-A4	EA	50	48.6	$ 2,430.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CAPBA002	CAPACITOR BANK, GROUNDED, SWITCHED, 150KV BIL, 600-KVAR 26.4/15.24 KV, 1 BUSHING, SHORTING WIRE & TAG INCLUDED, FOR USE WITH CAPACITOR BANK CONTROLLER (CAPC0002) (JEA SPEC. REQUIRED) /SPECIFICATIONS AND DRAWINGS TO BE SENT WITH	COOPER POWER SYSTEMS CER10036A0603C1	COOPER POWER SYSTEMS CER10036A0603C1	EA	1	8465.625	$ 8,465.63	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CAPUN002	CAPACITOR, POWER, 100 KVAR, 95 KV BIL, 7960 VOLTS, 2 BUSHING, MOUNTING FLANGES 7.50" FROM CAN TOP FOR GE 25 KV CAP BANK. BRKT/SPCRS MUST BE ATTACHED TO THE CAPACITOR UNIT, NOT PACKAGED SEPARATELY. SHORTING WIRE & TAG INCLUDED.	ABB POWER T & D 2GUA079100G2201 GENERAL ELECTRIC CO. 54L208WC60	ABB POWER T & D 2GUA079100G2201	EA	18	838.5	$ 15,093.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CAPUN013	CAPACITOR, POWER, 300KVAR, 150KV BIL, 19920 VOLTS, 1 BUSHING, MOUNTING FLANGE 9.88" FROM CAN TOP FOR MCG-ED 138KV CAP BANK AT PHIL HWY & NORM SUB. BRKT/SPCRS MUST BE ATTACHED TO THE UNIT & NOT PACKED SEPARATELY. SHORTING WIRE & TAG INCLUDED	ABB POWER T & D 2GUA199300G150 COOPER POWER SYSTEMS CEP165B4 COOPER POWER SYSTEMS CEP165B4FB GENERAL ELECTRIC CO. 59L155WC51	COOPER POWER SYSTEMS CEP165B4	EA	7	933.1875	$ 6,532.31	$ -	$ -	$ -	$ -	$ 1,098.67	$ 7,690.69	Anixter
CAPUN033	CAPACITOR UNIT, REPLACEMENT, 662 KVAR, 17681 VOLT, 125KV BIL, 2 BUSHING, 60HZ, HEAVY DUTY TYPE FOR 230KV CAP BANK	COOPER POWER SYSTEMS CEP17036A1	COOPER POWER SYSTEMS CEP17036A1	EA	2	2030.425	$ 4,060.85	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CAPUN034	CAPACITOR UNIT, REPLACEMENT, 644 KVAR, 13953 VOLT, 125 KV BIL, 2 BUSHING, 60HZ, HEAVY DUTY TYPE FOR	COOPER POWER SYSTEMS CEP17042A1	COOPER POWER SYSTEMS CEP17042A1	EA	2	1891.9625	$ 3,783.93	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CAPUN035	CAPACITOR UNIT, REPLACEMENT, 552 KVAR, 10465 VOLT, 125 KV BIL, 2 BUSHING, 60HZ, HEAVY DUTY TYPE FOR 69KV CAP BANK	COOPER POWER SYSTEMS CEP17043A1	COOPER POWER SYSTEMS CEP17043A1	EA	1	1679.4625	$ 1,679.46	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CDUBU022	BUSHING, METALLIC, CONDUIT REDUCER, 1 1/2" X 1 1/4" THOMAS & BETTS CAT# 610	THOMAS AND BETTS 610	0	EA	9	0	$ -	$ 7.42	$ 66.78	$ -	$ -	$ -	$ -	Englewood
CDUBU024	BUSHING, METALLIC, CONDUIT REDUCER, 1 1/2" X 3/4", THOMAS & BETTS CAT# 608	THOMAS AND BETTS 608	0	EA	4	0	$ -	$ 15.64	$ 62.56	$ -	$ -	$ -	$ -	Englewood
CDUBU025	BUSHING, METALLIC, 1 1/4" X 1", CONDUIT REDUCER	BRIDGEPORT 1166 CROUSE HINDS RE43 STEEL CITY RB143 THOMAS AND BETTS 606	0	EA	6	0	$ -	$ 8.30	$ 49.80	$ -	$ -	$ -	$ -	Englewood
CDUBU035	BUSHING, CONDUIT, 1 1/4", PLASTIC THOMAS & BETTS CAT.#225	THOMAS AND BETTS 225	0	EA	3	0	$ -	$ 1.86	$ 5.58	$ -	$ -	$ -	$ -	Englewood
CDUBU036	BUSHING, CONDUIT, 1", PLASTIC, THOMAS & BETTS	THOMAS AND BETTS 224	0	EA	7	0	$ -	$ 0.63	$ 4.41	$ -	$ -	$ -	$ -	Englewood
CDUBU045	BUSHING, METALLIC, CONDUIT REDUCER, 2" NON INSULATED THOMAS & BETTS P/N 127	THOMAS AND BETTS 127	0	EA	1	0	$ -	$ 4.40	$ 4.40	$ -	$ -	$ -	$ -	Englewood
CDUCD021	CONDUIT, 1 1/2", ALUMINUM, RIGID HEAVY WALL		0	FT	60	0	$ -	$ 3.92	$ 235.20	$ -	$ -	$ -	$ -	Englewood
CDUCD035	CONDUIT, 1/2", ALUMINUM, (10' LENGTHS)		0	FT	220	0	$ -	$ 1.24	$ 272.80	$ -	$ -	$ -	$ -	Englewood
CDUCD042	CONDUIT, 3/4", ALUMINUM, (10' LENGTHS)		0	FT	1300	0	$ -	$ 1.65	$ 2,145.00	$ -	$ -	$ -	$ -	Englewood
CDUCL021	CLAMP, CONDUIT BEAM, 1/4", DROP ROD	EFCOR 901 STEEL CITY 500	0	EA	60	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CDUCL022	CLAMP, CONDUIT, 1 1/2"	KINDORF C105-1 1/2	0	EA	220	0	$ -	$ 5.26	$ 1,157.20	$ -	$ -	$ -	$ -	Englewood
CDUCL024	CLAMP, CONDUIT, 1 1/2", RIGHT ANGLE TYPE, RIGID,	APPLETON PC-150RA STEEL CITY RC-1 1/2	APPLETON PC-150RA	EA	6	3.136	$ 18.82	$ 12.53	$ 75.18	$ -	$ -	$ -	$ -	Anixter
CDUCL025	CLAMP (STRAP), 1 1/4", (RIDGID CONDUIT, IMC & PIPE)	KINDORF C105-1 1/4	0	EA	6	0	$ -	$ 4.78	$ 28.68	$ -	$ -	$ -	$ -	Englewood
CDUCL028	CLAMP (STRAP), 1", RIDGID CONDUIT, IMC & PIPE	KINDORF C105-1 UNISTRUT P1113EG	0	EA	100	0	$ -	$ 4.15	$ 415.00	$ -	$ -	$ -	$ -	Englewood
CDUCL029	CLAMP, CONDUIT, 1", I-BEAM, PARALLEL TYPE,	APPLETON PC-100PAR STEEL CITY PC-1	APPLETON PC-100PAR	EA	12	3.836	$ 46.03	$ 15.25	$ 183.00	$ -	$ -	$ -	$ -	Anixter
CDUCL031	CLAMP (STRAP), 1/2", (RIDGID CONDUIT, IMC & PIPE)	KINDORF C105-1/2	0	EA	100	0	$ -	$ 3.16	$ 316.00	$ -	$ -	$ -	$ -	Englewood
CDUCL036	CLAMP, CONDUIT, 2", I-BEAM, PARALLEL TYPE,	APPLETON PC-200PAR	APPLETON PC-200PAR	EA	1	7.098	$ 7.10	$ 18.93	$ 18.93	$ -	$ -	$ -	$ -	Anixter
CDUCL037	CLAMP, CONDUIT, 2", RIGHT ANGLE TYPE, RIGID,	APPLETON PC-Z00RA STEEL CITY RC-2	APPLETON PC-Z00RA	EA	1	4.536	$ 4.54	$ 18.63	$ 18.63	$ -	$ -	$ -	$ -	Anixter
CDUCL038	CLAMP (STRAP), 3/4", (RIDGID CONDUIT, IMC & PIPE)	KINDORF C105-3/4	0	EA	50	0	$ -	$ 3.29	$ 164.50	$ -	$ -	$ -	$ -	Englewood
CDUCL039	CLAMP, CONDUIT, 3/4", I-BEAM, PARALLEL TYPE,	APPLETON PC-75PAR STEEL CITY PC-3/4	APPLETON PC-75PAR	EA	11	3.598	$ 39.58	$ 14.68	$ 161.48	$ -	$ -	$ -	$ -	Anixter
CDUCL040	CLAMP, CONDUIT, 3/4", RIGHT ANGLE TYPE, RIGID,	APPLETON PC-75RA ROBROY KNRA 3/4 STEEL CITY RC-3/4	APPLETON PC-75RA	EA	50	2.24	$ 112.00	$ 9.58	$ 479.00	$ -	$ -	$ -	$ -	Anixter
CDUCL041	CLAMP, CONDUIT, 1", RIGHT ANGLE, RIDGID	STEEL CITY RC-1	0	EA	31	0	$ -	$ 10.00	$ 310.00	$ -	$ -	$ -	$ -	Englewood
CDUCL044	CLAMP, IRON BEAM (MALLEABLE IRON), THREADED OPENINGS 3/8" - 16. (FITS FLANGES UP TO 1")	STEEL CITY 502	0	EA	6	0	$ -	$ 14.05	$ 84.30	$ -	$ -	$ -	$ -	Englewood
CDUCN025	CONNECTOR, CONDUIT 90 DEG, 3/4", SEALTITE	THOMAS AND BETTS 5253	0	EA	34	0	$ -	$ 9.74	$ 331.16	$ -	$ -	$ -	$ -	Englewood
CDUCU020	COUPLING, CONDUIT, 1 1/2", ERICKSON- MALLEABLE, FOR RIGID CONDUIT,	THOMAS AND BETTS 679	0	EA	1	0	$ -	$ 26.03	$ 26.03	$ -	$ -	$ -	$ -	Englewood
CDUCU021	COUPLING, CONDUIT, 1 1/2", ALUMINUM		0	EA	100	0	$ -	$ 8.81	$ 881.00	$ -	$ -	$ -	$ -	Englewood
CDUCU023	COUPLING, CONDUIT, 1 1/4", ALUMINUM ALLIED P/N N/A		0	EA	1	0	$ -	$ 7.62	$ 7.62	$ -	$ -	$ -	$ -	Englewood
CDUCU025	COUPLING, CONDUIT, 1", ERICKSON- MALLEABLE, FOR RIGID CONDUIT,	THOMAS AND BETTS 677	0	EA	10	0	$ -	$ 9.44	$ 94.40	$ -	$ -	$ -	$ -	Englewood
CDUCU030	COUPLING, CONDUIT, 1/2", ERICKSON- MALLEABLE, FOR RIGID CONDUIT.	THOMAS AND BETTS 675	0	EA	2	0	$ -	$ 7.08	$ 14.16	$ -	$ -	$ -	$ -	Englewood
CDUCU032	COUPLING, CONDUIT, 1/2", ALUMINUM ALLIED P/N N/A		0	EA	2	0	$ -	$ 3.12	$ 6.24	$ -	$ -	$ -	$ -	Englewood
CDUCU040	COUPLING, CONDUIT, 3/4", ERICKSON- MALLEABLE, FOR RIGID CONDUIT,	APPLETON EC-75 CROUSE HINDS 191 THOMAS AND BETTS 676	APPLETON EC-75	EA	10	4.256	$ 42.56	$ 8.26	$ 82.59	$ -	$ -	$ -	$ -	Anixter
CDUCU041	COUPLING, CONDUIT, 3/4", ALUMINUM		0	EA	9	0	$ -	$ 4.73	$ 42.57	$ -	$ -	$ -	$ -	Englewood
CDUCV020	COVER, CONDUIT OUTLET BODY, 1 1/2", BLANK, IRON ALLOY. FORM 7.	CROUSE HINDS 570F	0	EA	6	0	$ -	$ 18.95	$ 113.72	$ -	$ -	$ -	$ -	Englewood
CDUCV021	COVER, CONDUIT OUTLET BODY, 1 1/2", SHEET STEEL, FORM 7.	CROUSE HINDS 570	0	EA	10	0	$ -	$ 9.62	$ 96.24	$ -	$ -	$ -	$ -	Englewood
CDUCV023	COVER, CONDUIT OUTLET BODY, 1 1/4", BLANK, STEEL, FORM 35. UNILET.	APPLETON K125	0	EA	3	0	$ -	$ 8.35	$ 25.06	$ -	$ -	$ -	$ -	Englewood
CDUCV024	COVER, CONDUIT OUTLET BODY, 1", BLANK, IRON ALLOY, FORM 7.	APPLETON ELECTRIC CO. 370F CROUSE HINDS 370F	APPLETON ELECTRIC CO. 370F	EA	40	5.796	$ 231.84	$ 10.84	$ 433.60	$ -	$ -	$ -	$ -	Anixter
CDUCV026	COVER, CONDUIT OUTLET BODY, 1/2", BLANK, IRON ALLOY. FORM 7.	CROUSE HINDS 170F	0	EA	6	0	$ -	$ 7.42	$ 44.54	$ -	$ -	$ -	$ -	Englewood
CDUCV028	COVER, CONDUIT OUTLET BODY, 2", BLANK, IRON ALLOY, FORM 7	CROUSE HINDS 670F	0	EA	3	0	$ -	$ 28.04	$ 84.11	$ -	$ -	$ -	$ -	Englewood
CDUCV030	COVER, CONDUIT OUTLET BODY, 3/4", BLANK, IRON ALLOY. FORM 7	CROUSE HINDS 270F	0	EA	34	0	$ -	$ 9.01	$ 306.40	$ -	$ -	$ -	$ -	Englewood
CDUCV031	COVER, CONDUIT OUTLET BODY, 3/4", BLANK, STEEL, FORM 35. UNILET	APPLETON K75	APPLETON K75	EA	9	2.45	$ 22.05	$ 5.07	$ 45.64	$ -	$ -	$ -	$ -	Anixter
CDUCV034	COVER, CONDUIT OUTLET BODY, 1", BLANK, STEEL,	CROUSE HINDS 370	0	EA	5	0	$ -	$ 8.06	$ 40.29	$ -	$ -	$ -	$ -	Englewood
CDUEL024	ELBOW, CONDUIT 90 DEG, 1 1/4", ALUMINUM, STD RADIUS ALLIED P/N N/A		0	EA	33	0	$ -	$ 29.54	$ 974.82	$ -	$ -	$ -	$ -	Englewood
CDUEL026	ELBOW, CONDUIT 90 DEG, 1", ALUMINUM, STD RADIUS ALLIED P/N N/A		0	EA	6	0	$ -	$ 18.58	$ 111.48	$ -	$ -	$ -	$ -	Englewood
CDUEL032	ELBOW, CONDUIT 90 DEG, 3/4", ALUMINUM, STD RADIUS		0	EA	2	0	$ -	$ 13.34	$ 26.68	$ -	$ -	$ -	$ -	Englewood
CDUGK020	GASKET, CONDUIT OUTLET BODY, 1 1/4", NEOPRENE, FORM 35	APPLETON GK125-N	APPLETON GK125-N	EA	2	3.808	$ 7.62	$ 4.05	$ 8.10	$ -	$ -	$ -	$ -	Anixter
CDUGK021	GASKET, CONDUIT OUTLET BODY, 1", NEOPRENE, FORM 35	APPLETON GK100-N	APPLETON GK100-N	EA	6	2.086	$ 12.52	$ 4.88	$ 29.29	$ -	$ -	$ -	$ -	Anixter
CDUGK024	GASKET, CONDUIT OUTLET BODY, 1/2", SOLID NEOPRENE, FORM 7	APPLETON GASK571 CROUSE HINDS GASK571	APPLETON GASK571	EA	3	1.554	$ 4.66	$ 3.16	$ 9.48	$ -	$ -	$ -	$ -	Anixter

CDUGK026	GASKET, CONDUIT OUTLET BODY, 2", SOLID NEOPRENE, FORM 7	CROUSE HINDS GASK576		0	EA	10	0	$ -	$ 0.52	$ 5.18	$ -	$ -	$ -	$ -	Englewood
CDUHA024	HANGER, CONDUIT, 1 1/2", W/BOLT	MINERALLAC 4B THOMAS & BETTS 6H4 B		0	EA	1	0	$ -	$ 1.91	$ 1.91	$ -	$ -	$ -	$ -	Englewood
CDUHU023	HUB, CONDUIT, 2"	CROUSE HINDS ST-6 MEYERS ST-6		0	EA	3	0	$ -	$ 16.94	$ 50.82	$ -	$ -	$ -	$ -	Englewood
CDUHU025	HUB, CONDUIT, 1/2"	MYERS HUBS ST-1		0	EA	10	0	$ -	$ 6.54	$ 65.40	$ -	$ -	$ -	$ -	Englewood
CDUIC006	ELBOW, FLEX, 3/4" CONDUIT, 3/4" HOLE, 90 DEG,	BRIDGEPORT 471-LT2 STEEL CITY LT292		0	EA	1	0	$ -	$ 20.00	$ 20.00	$ -	$ -	$ -	$ -	Englewood
CDUNP024	NIPPLE, CONDUIT CLOSE, 1"			0	EA	1	0	$ -	$ 2.08	$ 2.08	$ -	$ -	$ -	$ -	Englewood
CDUNP025	NIPPLE, CONDUIT CLOSE, 1/2"			0	EA	10	0	$ -	$ 1.08	$ 10.80	$ -	$ -	$ -	$ -	Englewood
CDUNP028	NIPPLE, CONDUIT CLOSE, 3/4"			0	EA	3	0	$ -	$ 1.39	$ 4.17	$ -	$ -	$ -	$ -	Englewood
CDUNU022	NUT, CONDUIT, 3/8", UNISTRUT, SELF-HOLDING	THOMAS & BETTS UCN38		0	EA	4	0	$ -	$ 2.38	$ 9.52	$ -	$ -	$ -	$ -	Englewood
CDUOB022	OUTLET BOX, CONDUIT, 1 1/2", RIGID THREADED, FORM 7 TYPE T. CROUSE HINDS CAT# T57	CROUSE HINDS T57		0	EA	1	0	$ -	$ 69.51	$ 69.51	$ -	$ -	$ -	$ -	Englewood
CDUOB023	OUTLET BODY, CONDUIT, 1 1/2", RIGID THREADED, FORM 7, TYPE C.	CROUSE HINDS C57		0	EA	1	0	$ -	$ 58.41	$ 58.41	$ -	$ -	$ -	$ -	Englewood
CDUOB030	OUTLET BOX, CONDUIT, 1 1/4", RIGID THREADED, FORM 7 TYPE T.	CROUSE HINDS T47		0	EA	1	0	$ -	$ 52.12	$ 52.12	$ -	$ -	$ -	$ -	Englewood
CDUOB034	OUTLET BODY, CONDUIT, 1", RIGID STEEL, THREADED, FORM 7, TYPE C	CROUSE HINDS C37		0	EA	4	0	$ -	$ 37.32	$ 149.27	$ -	$ -	$ -	$ -	Englewood
CDUOB035	OUTLET BODY, CONDUIT, 1", RIGID STEEL, THREADED, FORM 7, TYPE LB,	APPLETON LB37 CROUSE HINDS LB37	APPLETON LB37		EA	7	11.564	$ 80.95	$ 22.09	$ 154.66	$ -	$ -	$ -	$ -	Anixter
CDUOB036	OUTLET BODY, CONDUIT, 1", RIGID STEEL, THREADED, FORM 7, TYPE LL	CROUSE HINDS LL37		0	EA	2	0	$ -	$ 28.41	$ 56.82	$ -	$ -	$ -	$ -	Englewood
CDUOB037	OUTLET BOX, 1", THREADED, FM 7 TYPE "T", GRAYLOY-IRON, W/ WEDGE-LOK CLIP COVER & GASKET (RIDGID STEEL & IMC CONDUIT)	APPLETON ELECTRIC CO. T37 CHROMALOX T37 CROUSE HINDS T37	APPLETON ELECTRIC CO. T37		EA	6	14.56	$ 87.36	$ 35.88	$ 215.29	$ -	$ -	$ -	$ -	Anixter
CDUOB039	OUTLET BODY, CONDUIT, 1/2", RIGID, THREADED, FORM 7, TYPE C	CROUSE HINDS C17		0	EA	2	0	$ -	$ 15.74	$ 31.48	$ -	$ -	$ -	$ -	Englewood
CDUOB041	OUTLET BODY, CONDUIT, 1/2", RIGID, THREADED, FORM 7, TYPE LR	APPLETON LR17 CROUSE HINDS LR17	APPLETON LR17		EA	4	6.454	$ 25.82	$ 10.65	$ 42.59	$ -	$ -	$ -	$ -	Anixter
CDUOB042	OUTLET BODY, CONDUIT, 1/2", STEEL, THREADED, FORM 7, TYPE LL	CROUSE HINDS LL17		0	EA	4	0	$ -	$ 15.73	$ 62.92	$ -	$ -	$ -	$ -	Englewood
CDUOB045	OUTLET BODY, CONDUIT, 2", ALUMINUM, THREADED, MARK 7	CROUSE HINDS LB67		0	EA	1	0	$ -	$ 96.39	$ 96.39	$ -	$ -	$ -	$ -	Englewood
CDUOB051	OUTLET BODY, CONDUIT, 3/4", RIGID STEEL, THREADED, FORM 7, TYPE LB	APPLETON LB27 CROUSE HINDS LB27	APPLETON LB27		EA	7	7.7	$ 53.90	$ 12.69	$ 88.85	$ -	$ -	$ -	$ -	Anixter
CDUOB054	OUTLET BODY, CONDUIT, 3/4", RIGID, THREADED, FORM 7, TYPE T	APPLETON T-27 CROUSE HINDS T27	APPLETON T-27		EA	10	9.646	$ 96.46	$ 15.99	$ 159.93	$ -	$ -	$ -	$ -	Anixter
CDUOB070	OUTLET BODY, CONDUIT, 3/4", RIDGID ALUMINUM, INCLUDES COVER AND GASKET, TYPE LB, N00/N01/N02/N03. WORK CTR 1-6	APPLETON ELECTRIC CO. LB75ACGA	APPLETON ELECTRIC CO. LB75ACGA		EA	4	9.058	$ 36.23	$ 28.21	$ 112.85	$ -	$ -	$ -	$ -	Anixter
CDUOB071	OUTLET BODY, CONDUIT, 3/4", RIDGID ALUMINUM, INCLUDES COVER AND GASKET, TYPE LR	ACP LR75ACG	ACP LR75ACG		EA	1	13.958	$ 13.96	$ 21.05	$ 21.05	$ -	$ -	$ -	$ -	Anixter
CDUOB074	OUTLET BODY, CONDUIT, 3/4", RIDGID ALUMINUM, INCLUDES COVER AND GASKET, TYPE T, N00/N01/N02/N03. WORK CTR 1-6	ACP T75ACGA	ACP T75ACGA		EA	14	10.92	$ 152.88	$ 24.69	$ 345.70	$ -	$ -	$ -	$ -	Anixter
CDUST001	STRAP, CONDUIT, 1-1/2:, TWO HOLE,	RACO 2236 THOMAS & BETTS HS 905		0	EA	4	0	$ -	$ 0.71	$ 2.84	$ -	$ -	$ -	$ -	Englewood
CDUST020	STRAP, CONDUIT, 1 1/2", ONE-HOLE STAMPED STEEL, FOR RIGID CONDUIT	APPLETON CL150		0	EA	4	0	$ -	$ 2.59	$ 10.35	$ -	$ -	$ -	$ -	Englewood
CDUST026	STRAP, CONDUIT, 1/2", ONE-HOLE	BRIDGEPORT 901-S MEER MFG. 1001		0	EA	7	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CDUST030	STRAP, CONDUIT, 3/4", ONE-HOLE STAMPED STEEL, FOR RIGID CONDUIT	APPLETON CL75 STEEL CITY HS-102		0	EA	10	0	$ -	$ 0.37	$ 3.70	$ -	$ -	$ -	$ -	Englewood
CDUUN023	UNION, CONDUIT TO CONDUIT, 1", 3-PIECE, FEMALE-FEMALE, EXPLOSION & DUST IGNITION PROOF	APPLETON UNF100NR	APPLETON UNF100NR		EA	1	20.146	$ 20.15	$ 37.62	$ 37.62	$ -	$ -	$ -	$ -	Anixter
CDUUN032	UNION, 1-1/2", TWO-PIECE TYPE, CONDUIT TO CONDUIT, FEMALE APPLETON P/N UNF150NR 101 #EL-296-92	APPLETON UNF150NR	APPLETON UNF150NR		EA	1	36.666	$ 36.67	$ 68.46	$ 68.46	$ -	$ -	$ -	$ -	Anixter
CDUUT001	UNISTRUT, 1-5/8" X 1-5/8" W/HOLES, SS, 10' LENGTH (1 EA. = 10 FT. PIECE)	B-LINE ELECTRICAL BY DESCRIPTION POWERSTRUT PS200EH-10-SS316 SUPER STRUT A1200 HS 10 SS UNISTRUT P1000T-10-SS		0	EA	13	0	$ -	$ 171.65	$ 2,231.45	$ -	$ -	$ -	$ -	Englewood
CDUUT002	CLAMP, STRUT SYSTEM, 3/4" PIPE (STRAP), 2-PIECE 1-BOLT CLAMP, 304 SS STRUT	KINDORF C-105-3/4SS STEEL CITY C105-3/4SS UNISTRUT P1125SS		0	EA	10	0	$ -	$ 10.60	$ 106.00	$ -	$ -	$ -	$ -	Englewood
CDUUT003	TUBING CLAMP, 1/2" UNISTRUT, SS W/HEX HD SCREW & NUT, FOR 1-5/8" WIDTH SERIES CHANNEL	SUPER STRUT 701-1/2-SS UNISTRUT 2026-SS		0	EA	10	0	$ -	$ 10.35	$ 103.50	$ -	$ -	$ -	$ -	Englewood
CDUUT004	UNISTRUT, NUTS/W/SPRING, UNISTRUT P/N P1010USS-1/2"-13	UNISTRUT P1010U-SS		0	EA	100	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CDUUT005	UNISTRUT, NUTS/W/SPRING, UNISTRUT P/N P1006U-14/20-SS	UNISTRUT P1006U-14/20-SS		0	EA	55	0	$ -	$ 4.50	$ 247.50	$ -	$ -	$ -	$ -	Englewood
CDUUT020	UNISTRUT, 1 1/2", X 1 1/2", 12-GAUGE, 17/32" BOLT HOLE 1 1/2" CENTERS 3/4" FROM END ON 3 SIDES, (10 FOOT LENGTHS)	STEEL CITY B-995-10		0	FT	32	0	$ -	$ 4.50	$ 144.00	$ -	$ -	$ -	$ -	Englewood
CDUUT021	FITTING, UNISTRUT, 2-HOLE, ANGLE CONNECTOR, 1/4" STEEL	STEEL CITY B-915		0	EA	10	0	$ -	$ 6.83	$ 68.30	$ -	$ -	$ -	$ -	Englewood
CDUUT022	FITTING, UNISTRUT, 5-HOLE, ANGLE CONNECTOR,	STEEL CITY B-917		0	EA	5	0	$ -	$ 10.14	$ 50.70	$ -	$ -	$ -	$ -	Englewood
CDUUT023	FITTING, UNISTRUT, 2-SUPPORT, 1-1/2" DEEP CHANNEL, 1/4" STEEL,	STEEL CITY B-926		0	EA	2	0	$ -	$ 10.90	$ 21.80	$ -	$ -	$ -	$ -	Englewood
CDUUT028	FITTING, 90 DEGREE, 1 5/8" WIDTH X 1/4", UNISTRUT	SUPER STRUT AB299 UNISTRUT P2626		0	EA	1	0	$ -	$ 4.15	$ 4.15	$ -	$ -	$ -	$ -	Englewood
CDUUT029	NUT, W/SPRING, UNISTRUT, 1/4" SCREW/BOLT	SUPER STRUT A100-1/4 UNISTRUT P10061420 TYPE EG		0	EA	100	0	$ -	$ 1.50	$ 150.00	$ -	$ -	$ -	$ -	Englewood
CDUUT030	NUT, W/SPRING, UNISTRUT, 3/8" SCREW/BOLT, TYPE EG	KINDORF B911-3/8 UNISTRUT P1008 TYPE EG		0	EA	20	0	$ -	$ 3.48	$ 69.60	$ -	$ -	$ -	$ -	Englewood
CLACT005	CLAMP, CLAMP-TOP POST INSULATOR ALUMINUM, 954-ACSR	ANDERSON TSC-200 FARGO GD-998A FRANKEL ISCA-2 LAPP 47115 LINDSEY 1128 OHIO BRASS 270663 RELIABLE POWER PRODUCTS ACTS-200		0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CLACT012	CLAMP, CLAMP-TOP POST INSULATOR, ANGLE, 954 ACSR, ALUMINUM CONDUCTOR	CONTINENTAL ELECTRIC PAC-200 FARGO GD-998A20		0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CNNAJ006	TERMINAL, ALUMINUM JUMPER, CONDUCTOR RANGE 1.092"-1.172", CONDUCTOR SIZE 954-AAC 0-DEGREE ANGLE	ALCOA 5630.122 ANDERSON OAL-1000C BURNDY CORP. YNA451RT HOMAC ALCC-954-4N KEARNEY 40603-10 SEFCOR AL-1126-4A TRAVIS FOUNDRY - PDU 16-161C	ALCOA 5630.122		EA	5	26.572	$ 132.86	$ 74.12	$ 370.59	$ -	$ -	$ -	$ -	Anixter
CNNAJ020	TERMINAL, STRAIGHT, ALUMINUM JUMPER, FOR 2500 ACC CONDUCTOR.	ALCOA TS20 ANDERSON ACF-1824-N4 HOMAC ALCC-2500-4NN SEFCOR AL-1824-4B TRAVIS FOUNDRY - PDU 16-172D	TRAVIS FOUNDRY PDU 16-172D		EA	1	91.35	$ 91.35	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNBS710	CONNECTOR, HORIZONTAL BUS SUPPORT, BRONZE, CABLE TO INSULATOR, 4/0 - 1000 MCM, 3" BCD, TIN PLATED	ANDERSON ICA-100-3-TP DOSSERT PSG-131-3-SN HOMAC KSBD-100-3-R SEFCOR ACRI-34-3-SND TRAVIS FOUNDRY - PDU 19-389-TPA	SEFCOR ACRI-34-3-SND		EA	1	112.686	$ 112.69	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNBS713	SUPPORT, BUS, BOLTED, HORIZONTAL, DOUBLE 500 MCM CABLE TO 3" BCD INSULATOR, TIN PLATTED BRONZE	ANDERSON CDSB-50-3-TP DOSSERT C3SB 50-3-SN	SEFCOR SCR12-20-3-SND		EA	2	131.152	$ 262.30	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNBS810	CONNECTOR, HORIZONTAL BUS SUPPORT, BRONZE, TUBE OR CABLE TO INSULATOR, 250-1750 MCM TO 5" BCD HOMAC P/N KSBD-175-5.	ANDERSON CSSB-200-5 HOMAC KSBD-175-5 SEFCOR SCRI-48-5	SEFCOR SCRI-48-5		EA	1	173.25	$ 173.25	$ -	$ -	$ -	$ -	$ -	$ -	Anixter

CNNCO335	CONNECTOR, STRAIGHT COUPLER, ALUMINUM, TUBE TO TUBE, 4" IPS, MAIN & TAP ANDERSON P/N ASTT-4040	ANDERSON ASTT-4040 HOMAC ABC-P SEFCOR ASCT-6464 TRAVIS FOUNDRY - PDU 13-209	TRAVIS FOUNDRY PDU 13-209	EA	1	228.97	$ 228.97	$ 229.28	$ 229.28	$ -	$ -	$ -	$ -	Anixter
CNNCO875	COUPLER, ANGLE, FLAT TO FLAT, BRONZE, 90 DEGREE, 4-HOLE-4" PAD TO 4-HOLE-4" PAD X 3/4" THICK. TIN	TRAVIS FOUNDRY - PDU BR-4X4X90(3/4" THICK)-TPA	TRAVIS FOUNDRY - PDU BR-4X4X90(3/4" THICK)-T	EA	1	210.21	$ 210.21	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNCP026	CONNECTOR, TERMINATOR, COMPRESSION FOR SIZE 1000KCM POLY TERMINATOR 1"-14 THREADED STUD	HOMAC PTL1000-8051	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CNNCP035	CONNECTOR, COPPER COMPRESSION, 750-MCM, HOMAC CONNECTORS P/N C750	BURNDY CORP. YS39 HOMAC C750 ILSCO CTL-750 RICHARDS MFG. CO. CC23 UTILCO CTL-750 UTLX 1-1443403-6	0	EA	1	0	$ -	$ 55.06	$ 55.06	$ -	$ -	$ -	$ -	Englewood
CNNCP036	CONNECTOR, ALUMINUM COMPRESSION, STRAIGHT, 1000-MCM CONDUCTOR SIZE	BLACKBURN ASP1000 FCI USA INCORPORATED YS44A1	0	EA	10	0	$ -	$ 71.00	$ 710.00	$ -	$ -	$ -	$ -	Englewood
CNNCP038	CONNECTOR, AL/CU COMPRESSION, STRAIGHT, 1/0 AL CONDUCTOR SIZE (MAX - LENGTH 3-INCHES) USED WITH SPL SH 002	BURNDY ELECTRICAL YS25A1 HOMAC SAC 1/0TN	0	EA	5	0	$ -	$ 13.00	$ 65.00	$ -	$ -	$ -	$ -	Englewood
CNNCT005	CONNECTOR, CONTACT, 25KV, STRANDED 1/0 AL TRXLPE TO MAKE UP ELBOW CONNECTOR CNNNL001.	COOPER POWER SYSTEMS CC2C06T HUBBELL POWER SYSTEMS, INC. 625LUG24 RICHARDS MFG. CO. P6AL-9	COOPER POWER SYSTEMS CC2C06T	EA	3	7.308	$ 21.92	$ 27.80	$ 83.40	$ -	$ -	$ -	$ -	Anixter
CNNGR634	CONNECTOR, FLEXIBLE COPPER GROUNDING BRAID, TIN PLATED, 1 1/4" WIDE X24" LONG X 1/4" THICK, 1 HOLE ON ONE END, OTHER FERRULE IS BLANK FOR CLAMPING TO PIPE	ANDERSON GB-200-5A DOSSERT CF200-5A HOMAC GA-397-W-24 TRAVIS FOUNDRY - PDU 111-182-24-HP	DOSSERT CF200-5A	EA	13	38.164	$ 496.13	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNGR636	CONNECTOR, FLEXIBLE COPPER GROUNDING BRAID, 1 1/4" WIDE X 24" LONG X 1/4" THICK, TINNED, 2 HOLES ON ONE END, OTHER FERRULE IS BLANK FOR CLAMPING TO PIPE	ANDERSON GB-200-5B HOMAC GA-397-O-24 SEFCOR XBG146-D-24 TRAVIS FOUNDRY - PDU 111-182-24-2HP	SEFCOR XBG146-D-24	EA	2	53.41	$ 106.82	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNGR652	CLAMP, GROUND, SINGLE CABLE TO FLAT, #4 SOL.-300 MCM, TIN PLATED	ANDERSON GC-141A-G2-TP DOSSERT GF30-SN HOMAC 2709-1-30EHR SEFCOR GTC-14-SND TRAVIS FOUNDRY - PDU 17-159-TPA	SEFCOR GTC-14-SND	EA	12	14.49	$ 173.88	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNGR662	CONNECTOR, BRONZE GROUND CLAMP, TWO CABLES TO FLAT, #4 SOL.-300 MCM OR 7 #5 COPPERWELD, TIN	ANDERSON GC-143A-G2-TP DOSSERT GAV30-SN	SEFCOR GTC2-14-SND	EA	3	18.48	$ 55.44	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNHS002	CONNECTOR, FOR HEAT-SHRINK SPLICE 2000KCM, 69KV CONDUCTOR	RAYCHEM EPPA-047-42/76-180	RAYCHEM EPPA-047-42/76-180	EA	1	350	$ 350.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNLB020	CONNECTOR, 1/0 COMPRESSION LUG FOR USE WITH THE NAVY BASES 600 AMP ELBOW CONNECTOR.	ELASTIMOLD 03700230	ELASTIMOLD 03700230	EA	1	22.05	$ 22.05	$ 23.55	$ 23.55	$ -	$ -	$ -	$ -	Anixter
CNNPA133	CONNECTOR, PARALLEL TAP, ALUMINUM, 3 U-BOLTS, 556 ACSR.	ANDERSON LCU-700-55 DOSSERT ACA504 HOMAC ABRU3-79	DOSSERT ACA504	EA	8	58.408	$ 467.26	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNPA604	CONNECTOR, PARALLEL, MULTIPLE (2) CENTER BOLT, CABLE SPACER, 500-800 MCM, BRONZE, TIN PLATED ANDERSON P/N BPCS-080-4-TP	ANDERSON BPCS-0804-TP HOMAC KACS2-80-4R SEFCOR ASPC-20-4-BR-SND TRAVIS FOUNDRY - PDU 110-105-CS-4-TPA	SEFCOR ASPC-20-4-BR-SND	EA	22	81.62	$ 1,795.64	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNPA612	CONNECTOR, PARALLEL, SINGLE CENTER BOLT BRONZE, CABLE SPACER, 750-1000 MCM, TIN PLATED ANDERSON P/N BPCS-100-2 1/2-TP (USED IN SETS OF 3)	ANDERSON BPCS-100-2 1/2-TP DOSSERT CASV 100-2-1/2-SN HOMAC GA-582-TP SEFCOR CSPC-34-6-SND TRAVIS FOUNDRY - PDU 110-105-CS-2.5-TPA	DOSSERT CASV 100-2-1/2-SN	EA	1	36.708	$ 36.71	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNPA613	CONNECTOR, PARALLEL CABLE SPACER 954 ACSR, ALUMINUM.	ANDERSON APCS-13-4 HOMAC ACS2-125-4 SEFCOR ASPC-36-4 TRAVIS FOUNDRY - PDU 110-119-CS-4	SEFCOR ASPC-36-4	EA	120	35.073	$ 4,208.76	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNPL001	PLUG, CONNECTOR, 25KV, 600AMP RATED CAPACITY	COOPER POWER 2637194BS1M COOPER POWER SYSTEMS DCP625A ELASTIMOLD K651CP HUBBELL POWER SYSTEMS, INC. 625CP ITT BLACKBURN TC6C	ELASTIMOLD K651CP	EA	1	79.45	$ 79.45	$ 77.67	$ 77.67	$ -	$ -	$ -	$ -	Englewood
CNNSB001	CONNECTOR, 6-2STR/6-2 CU, SPLIT BOLT PARALLEL WITH SPACER, .057" - .145"	ANDERSON CPS-1 HOMAC E 2 GP ITT BLACKBURN 6HPS RELIABLE ELECTRIC CO. 8FGB	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CNNSB532	CONNECTOR, SPLIT BOLT PARALLEL, BRONZE, 500-1000 MCM ANDERSON P/N C-1000	ANDERSON C-1000 BURNDY CORP. KS-44 HOMAC E 1000	0	EA	1	0	$ -	$ 185.78	$ 185.78	$ -	$ -	$ -	$ -	Englewood
CNNSD730	CONNECTOR, STUD TO FLAT, BRONZE, 1-1/2"-12 TO 4 HOLE FLAT, (4" PAD) TIN PLATED, FINISH BOTH SURFACES	ANDERSON HDSF-14-1-D-1/2-12-TP BURNDY CORP. FD67DRW	SEFCOR SNFT-44-4B-SND	EA	1	122.542	$ 122.54	$ 137.46	$ 137.46	$ -	$ -	$ -	$ -	Anixter
CNNSD738	CONNECTOR, STUD TO FLAT, BRONZE, 2"-12 TO 4 HOLE FLAT, (4" PAD) TIN PLATED, FINISH BOTH SURFACES ANDERSON P/N HDSF-20-1-D-1/2-12-TP	ANDERSON HDSF-20-1-D-1/2-12-TP BURNDY CORP. FD68D8W HOMAC KSLC-13-4NNR SEFCOR SNFT-54-4B-SND TRAVIS FOUNDRY - PDU 14-358-TP	SEFCOR SNFT-54-4B-SND	EA	1	176.246	$ 176.25	$ 171.60	$ 171.60	$ -	$ -	$ -	$ -	Englewood
CNNSO011	CONNECTOR, 4/0 STR, SOLDER, SPLIT SOLDER TINNED DIPPED COPPER	DOSSERT DPS-21 HOMAC STC-4/0 MAC ELECTRICAL CONNECTORS MSS-4/0 PEKCU 212 RICHARDS MFG. CO. RSS12	RICHARDS MFG. CO. RSS12	EA	2	15.526	$ 31.05	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTE206	CONNECTOR, STRAIGHT TEE, ALUMINUM, CABLE TO CABLE, HEAT TREATED, 556 ACSR MAIN TO 4/0 CU TAP	ANDERSON ATCC-116 DOSSERT BCV 90-25-AA	DOSSERT BCV 90-25-AA	EA	1	53.326	$ 53.33	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTE214	CONNECTOR, STRAIGHT TEE, ALUMINUM, CABLE TO CABLE, BOLTED, HEAT TREATED, 954 MAIN & TAP	ANDERSON ATCC-1313 BURNDY CORP. NNTR45A45A DOSSERT BCV 125-125-AA HOMAC A6MT-150-150 PENN-UNION ABA-125 SEFCOR ACRCT-3939 TRAVIS FOUNDRY - PDU 12-917	DOSSERT BCV 125-125-AA	EA	1	63.336	$ 63.34	$ 78.96	$ 78.96	$ -	$ -	$ -	$ -	Anixter
CNNTE518	CONNECTOR, STRAIGHT TEE, BRONZE, TIN PLATED, CABLE TO CABLE, 1/0 SOL-500 MCM, MAIN & TAP ANDERSON P/N TCC8-050050-TP	ANDERSON TCC8-050050-TP HOMAC 6MT-50-50-R SEFCOR TCRCT-2020- SND TRAVIS FOUNDRY - PDU 12-890-TPA	SEFCOR TCRCT-2020- SND	EA	1	94.01	$ 94.01	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTE560	CONNECTOR, STRAIGHT TEE, BRONZE, CABLE TO CABLE, 4/0-1000 MCM MAIN & TAP, TIN PLATED.	ANDERSON TCC8-100100-TP HOMAC 6MT-100-100R SEFCOR TCRCT-3434-SND TRAVIS FOUNDRY - PDU 12-893-TPA	SEFCOR TCRCT-3434-SND	EA	1	137.76	$ 137.76	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTE794	CONNECTOR, STRAIGHT TEE, BRONZE, TUBE TO FLAT, 2" IPS TO 4 HOLE FLAT (4"), CENTER FORMED, TIN PLATED	ANDERSON TTF-2040-1-TP HOMAC KBNT-J-4NNR SEFCOR TFT-58-4B-SND TRAVIS FOUNDRY - PDU 12-778-TPA	SEFCOR TFT-58-4B-SND	EA	1	192.458	$ 192.46	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTE904	CONNECTOR, TEE, STRAIGHT CABLE / TUBE TO FLAT, 4/0 - 1500MCM TO 4-HOLE FLAT (3" PAD) TAP, BRONZE	ANDERSON SF-2-C HOMAC 7MK-200-4N TRAVIS FOUNDRY - PDU 11-222	TRAVIS FOUNDRY PDU 11-222	EA	1	151.62	$ 151.62	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL004	TERMINAL LUG, ALUMINUM COMPRESSION, STRAIGHT TYPE LUG, 350 KCM	ANDERSON AHL-250-BN BURNDY CORP. YAK7BA-2G2	0	EA	1	0	$ -	$ 45.75	$ 45.75	$ -	$ -	$ -	$ -	Englewood
CNNTL011	TERMINAL LUG, ALUMINUM COMPRESSION, STRAIGHT TYPE LUG, 1000 KCM	ANDERSON AHL-1000-BN BURNDY CORP. YAK44-2G2 CONNECTOR MANUFACTURING CO. AHL1000 HOMAC AL1000-N PENN-UNION KWLS-100DB RICHARDS MFG. CO. AL28-2N UTILCO ALND-1000-12-134	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CNNTL014	TERMINAL LUG, ALUMINUM COMPRESSION, WITH 1/2" HARDWARE, 2/0 STR. *** STANDARD PKG = 50 EACH ***	ANDERSON VAUL-2/0-12 BURNDY CORP. YRA26U CONNECTOR MANUFACTURING CO. ALB-5 HOMAC SA-2/0-48 PENN-UNION FSLA-013S	PENN-UNION FSLA-013S	EA	50	3.514	$ 175.70	$ 14.38	$ 718.82	$ -	$ -	$ -	$ -	Anixter

CNNTL016	TERMINAL LUG, ALUMINUM COMPRESSION, WITH 1/2" HARDWARE, 4/0 STR.	ANDERSON VAUL-4/0-12 BURNDY CORP. YRA28U CONNECTOR MANUFACTURING CO. ALB-7 HOMAC SA-4/0-48 PENN-UNION FSLA-025S RICHARDS MFG. CO. AL12 UTILCO 1ACL-4/0	PENN-UNION FSLA-025S	EA	12	3.416	$ 40.99	$ 14.38	$ 172.52	$ -	$ -	$ -	$ -	Anixter
CNNTL017	TERMINAL LUG, ALUMINUM COMPRESSION, WITH 5/16" HARDWARE, 350 STR.	CONNECTOR MANUFACTURING CO. ALC-4 HOMAC SA-350-48 UTILCO 1ACL-350	0	EA	50	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CNNTL031	TERMINAL, ALUMINUM COMPRESSION, CABLE TO 3" 4-HOLE PAD, 954 ACSR, RANGE 1.196 - 1.216.	ANDERSON CCL-1216C BURNDY CORP. YNA49R-T	0	EA	1	0	$ -	$ 102.56	$ 102.56	$ -	$ -	$ -	$ -	Englewood
CNNTL407	CONNECTOR, TERMINAL LUG, 500 CU., 2 HOLE	THOMAS & BETTS 54876BE	0	EA	1	0	$ -	$ 30.82	$ 30.82	$ -	$ -	$ -	$ -	Englewood
CNNTL408	CONNECTOR, TERMINAL LUG, 750 CU., 2 HOLE. FOR USE WITH THE NAVY BASES.	BURNDY ELECTRICAL YA392N RICHARDS MFG. CO. HDCL23-2N THOMAS & BETTS 54880BE TRAVIS FOUNDRY - PDU 16-115B	TRAVIS FOUNDRY PDU 16-115B	EA	1	94.5	$ 94.50	$ 51.06	$ 51.06	$ -	$ -	$ -	$ -	Englewood
CNNTL606	CONNECTOR, TAP LUG TERMINAL, BRONZE, ONE OR TWO CABLES TO FLAT, TYPE TLS, #8 TO 2/0, TIN PLATED	ANDERSON TLS-32-TP BURNDY CORP. QGFL26B3T6W	SEFCOR UN-4048T-SND	EA	1	34.258	$ 34.26	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL616	CONNECTOR, TAP LUG TERMINAL, BRONZE, ONE OR TWO CABLES TO FLAT, TYPE TLS, #2 SOL-350 MCM ANDERSON P/N TLS-52-L	ANDERSON TLS-52-L BURNDY CORP. QGFL31B1T6 DOSSERT QL-35E PENN-UNION LSN-035NE SEFCOR UN-4553-T	PENN-UNION LSN-035NE	EA	4	7.084	$ 28.34	$ 14.95	$ 59.81	$ -	$ -	$ -	$ -	Anixter
CNNTL621	CONNECTOR, TAP LUG TERMINAL, BRONZE, ONE OR TWO CABLES TO FLAT, TYPE TLS, 2/0-1000 MCM, TIN PLATED	ANDERSON TLS-89-L-TP	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CNNTL622	CONNECTOR, TAP LUG TERMINAL, BRONZE, ONE OR TWO CABLES TO FLAT, TYPE TLS, 350-750 MCM ANDERSON P/N TLS-72-L	ANDERSON TLS-89L BURNDY CORP. QGFL39B1T6 DOSSERT QL-75E PENN-UNION LSN-075E	PENN-UNION LSN-075E	EA	1	10.668	$ 10.67	$ 13.10	$ 13.10	$ -	$ -	$ -	$ -	Anixter
CNNTL708	CONNECTOR, STRAIGHT TERMINAL, BRONZE, CABLE TO FLAT, 1/0-500 MCM TO 2-HOLE FLAT, TIN PLATED, WITH SILICON BRONZE CONNECTING HARDWARE.	ANDERSON SWH-050-B2-TP-ED BURNDY CORP. NAH34-2N-TN DOSSERT TCVH50-2N-SN HOMAC 7M-60-2NR SEFCOR FNCT-20H-2B-SND TRAVIS FOUNDRY - PDU 11-104H-TPA	SEFCOR FNCT-20H-2B-SND	EA	3	61.712	$ 185.14	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL730	CONNECTOR, STRAIGHT TERMINAL, BRONZE, CABLE TO FLAT, 4/0-1000 MCM TO 2-HOLE FLAT, TIN PLATED, WITH	ANDERSON SWH-100-B2-TP-ED DOSSERT TCVH100N2SN	TRAVIS FOUNDRY PDU 11-104-TPA	EA	83	52.8525	$ 4,386.76	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL758	CONNECTOR, STRAIGHT TERMINAL, BRONZE, CABLE TO FLAT, 1/0-500 MCM TO 4-HOLE FLAT, (3" PAD), TIN PLATED ANDERSON P/N SWH-050-C-TP	ANDERSON SWH-050-C-TP HOMAC 7M-60-4NR SEFCOR FNCT-20-4A-SND TRAVIS FOUNDRY - PDU 11-105H-TPA	SEFCOR FNCT-20-4A-SND	EA	3	77.714	$ 233.14	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL759	CONNECTOR, STRAIGHT TERMINAL, BRONZE, TWO CABLES TO FLAT, DOUBLE 1/0-500 MCM TO 4-HOLE (3" PAD), TIN PLATED ANDERSON P/N SWHD-050-C-TP	BURNDY CORP. N2AH34-34N-TN HOMAC 7MM-60-4NR TRAVIS FOUNDRY - PDU 11-231-TPA	TRAVIS FOUNDRY PDU 11-231-TPA	EA	32	238.815	$ 7,642.08	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL770	CONNECTOR, STRAIGHT TERMINAL, BRONZE, CABLE TO FLAT, 4/0-1000 MCM TO 4-HOLE FLAT, (3" PAD), TIN PLATED ANDERSON P/N SWH-100-C-TP	ANDERSON SWH-100-C-TP DOSSERT TCVH100-4N-SN HOMAC 7M-125-4NR SEFCOR FNCT-34-4A-SND TRAVIS FOUNDRY - PDU 11-111-TPA	SEFCOR FNCT-34-4A-SND	EA	30	81.8235	$ 2,454.71	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL772	CONNECTOR, STRAIGHT TERMINAL, BRONZE, TWO CABLES TO FLAT, DOUBLE 4/0-1000 MCM TO 4-HOLE FLAT (3"	DOSSERT T2CVH 100-4N-SN HOMAC 7MM-100-4NR	DOSSERT T2CVH 100-4N-SN	EA	129	136.8225	$ 17,650.10	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL774	CONNECTOR, STRAIGHT TERMINAL, BRONZE, TWO CABLES TO FLAT, DOUBLE 4/0-1000 MCM TO 4-HOLE PAD (4" PAD), TIN PLATED ANDERSON P/N SWHD-100-D-TP	ANDERSON SWHD-100-D-TP HOMAC 7MM1-100-4NNR SEFCOR FNCT2-34-4B-TP TRAVIS FOUNDRY - PDU 11-235-TPA	SEFCOR FNCT2-34-4B-TP	EA	152	144.153	$ 21,911.26	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL910	CONNECTOR, STRAIGHT TERMINAL, BRONZE, TUBE TO FLAT, 1 1/4" IPS TO 4-HOLE FLAT (3" PAD), TIN PLATED ANDERSON P/N STF4-12C-TP	ANDERSON STF4-12C-TP BURNDY CORP. NA16-4NW DOSSERT TP-125-4N-SN HOMAC KL-G-4NR SEFCOR FNTT-49-4A-SND TRAVIS FOUNDRY - PDU 11-150-TPA	SEFCOR FNTT-49-4A-SND	EA	10	97.132	$ 971.32	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL922	CONNECTOR, STRAIGHT TERMINAL, BRONZE, TUBE TO FLAT, 2 1/2" IPS TO 4-HOLE FLAT, (3" PAD), TIN PLATED ANDERSON P/N STF4-24C-TP	ANDERSON STF4-24C-TP HOMAC KL-K-4NR SEFCOR FNTT-60-4A-SND TRAVIS FOUNDRY - PDU 11-159-TPA	SEFCOR FNTT-60-4A-SND	EA	4	155.61	$ 622.44	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTL926	CONNECTOR, STRAIGHT TERMINAL, BRONZE, TUBE TO FLAT, 3" IPS TO 4-HOLE FLAT, (3" PAD), TIN PLATED,	ANDERSON STF4-30C-TP HOMAC KL-L-4NR	SEFCOR FNTT-62-4A-SND	EA	3	196.392	$ 589.18	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CNNTLF57	CONNECTOR, FORK TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS. WIRE SIZE 12-10 AWG, STUD #6. ***PACKAGE OF	THOMAS AND BETTS 10RC-6F	0	EA	70	0	$ -	$ 0.78	$ 54.60	$ -	$ -	$ -	$ -	Englewood
CNNTLF58	CONNECTOR, FORK TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS. WIRE SIZE 12-10 AWG, STUD #8. ***PACKAGE OF	THOMAS AND BETTS 10RC-8F	0	EA	70	0	$ -	$ 0.76	$ 53.20	$ -	$ -	$ -	$ -	Englewood
CNNTLF59	CONNECTOR, FORK TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS. WIRE SIZE 12-10 AWG, STUD #10. ***PACKAGE	THOMAS AND BETTS 10RC-10F	0	EA	190	0	$ -	$ 0.78	$ 148.20	$ -	$ -	$ -	$ -	Englewood
CNNTLF60	CONNECTOR, FORK TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS. WIRE SIZE 12-10 AWG, STUD 1/4". ***PACKAGE	THOMAS AND BETTS 10RC-14F	0	EA	40	0	$ -	$ 0.96	$ 38.40	$ -	$ -	$ -	$ -	Englewood
CNNTLR09	CONNECTOR, RING TERMINAL, NON-INSULATED, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS, WIRE SIZE 16-	THOMAS AND BETTS B14-10	0	EA	100	0	$ -	$ 0.36	$ 36.00	$ -	$ -	$ -	$ -	Englewood
CNNTLR23	TERMINAL, RING, NON-INSULATED, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS, WIRE SIZE 12-10 AWG, STUD #10 ***PACKAGE OF 50 EACH***NO	THOMAS AND BETTS C10-10	0	EA	1700	0	$ -	$ 0.52	$ 884.00	$ -	$ -	$ -	$ -	Englewood
CNNTLR28	CONNECTOR, RING TERMINAL, NON-INSULATED, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS, WIRE SIZE 9-8-7 AWG, STUD #10 ***PACKAGE OF 25 EACH***NO SUBSTITUTE***	THOMAS AND BETTS D8-10	0	EA	225	0	$ -	$ 0.84	$ 189.00	$ -	$ -	$ -	$ -	Englewood
CNNTLR29	CONNECTOR, RING TERMINAL, NON-INSULATED, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS, WIRE SIZE 9-8-7 AWG, STUD 1/4" ***PACKAGE OF 25 EACH***NO SUBSTITUTE***	THOMAS AND BETTS D8-14-SK	0	EA	125	0	$ -	$ 1.43	$ 178.75	$ -	$ -	$ -	$ -	Englewood
CNNTLR30	CONNECTOR, RING TERMINAL, NON-INSULATED, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS, WIRE SIZE 9-8-7 AWG, STUD 5/16" ***PACKAGE OF 25 EACH***NO SUBSTITUTE***	THOMAS AND BETTS D8-516	0	EA	25	0	$ -	$ 1.53	$ 38.25	$ -	$ -	$ -	$ -	Englewood
CNNTLR31	CONNECTOR, RING TERMINAL, NON-INSULATED, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS, WIRE SIZE 9-8-7 AWG, STUD 3/8" ***PACKAGE OF 25 EACH***NO SUBSTITUTE***	THOMAS AND BETTS D8-38	0	EA	25	0	$ -	$ 1.51	$ 37.75	$ -	$ -	$ -	$ -	Englewood
CNNTLR34	CONNECTOR, RING TERMINAL, NON-INSULATED, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS, WIRE SIZE 6-5 AWG, STUD 1/4" ***PACKAGE OF 20 EACH***NO SUBSTITUTE***	THOMAS AND BETTS E6-14	0	EA	80	0	$ -	$ 1.66	$ 132.80	$ -	$ -	$ -	$ -	Englewood
CNNTLR62	CONNECTOR, RING TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS, WIRE SIZE 16-14 AWG, STUD 5/16", ***PACKAGE OF 100 EACH***	THOMAS AND BETTS 14RB-516	0	EA	100	0	$ -	$ 0.81	$ 81.00	$ -	$ -	$ -	$ -	Englewood
CNNTLR63	CONNECTOR, RING TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS. WIRE SIZE 16-14 AWG, STUD 3/8". ***PACKAGE	THOMAS AND BETTS 14RB-38	0	EA	100	0	$ -	$ 0.81	$ 81.00	$ -	$ -	$ -	$ -	Englewood
CNNTLR64	CONNECTOR, RING TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS. WIRE SIZE 12-10 AWG, STUD #6. ***PACKAGE OF	THOMAS AND BETTS 10RC-6	0	EA	50	0	$ -	$ 0.82	$ 41.00	$ -	$ -	$ -	$ -	Englewood
CNNTLR65	CONNECTOR, RING TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS. WIRE SIZE 12-10 AWG, STUD #8. ***PACKAGE OF	THOMAS AND BETTS 10RC-8	0	EA	100	0	$ -	$ 0.77	$ 77.00	$ -	$ -	$ -	$ -	Englewood
CNNTLR66	CONNECTOR, RING TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS. WIRE SIZE 12-10 AWG, STUD #10. ***PACKAGE	THOMAS AND BETTS 10RC-10	0	EA	5600	0	$ -	$ 0.77	$ 4,312.00	$ -	$ -	$ -	$ -	Englewood

CNNTLR67	CONNECTOR, RING TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS, WIRE SIZE 12-10 AWG, STUD 1/4", ***PACKAGE	THOMAS AND BETTS 10RC-14	0	EA	300	0	$ -		$ 0.93	$ 279.00	$ -	$ -	$ -	$ -	Englewood
CNNTLR68	CONNECTOR, RING TERMINAL, VINYL-INSULA TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED	THOMAS AND BETTS 10RC-516	0	EA	150	0	$ -		$ 0.98	$ 147.00	$ -	$ -	$ -	$ -	Englewood
CNNTLR69	CONNECTOR, RING TERMINAL, VINYL-INSULA , TION SUPPORT, BARREL TYPE, BRAZED SEAM, TIN PLATED BRASS, WIRE SIZE 12-10 AWG, STUD 3/8", ***PACKAGE OF 50 EACH***	THOMAS AND BETTS 10RC-38	0	EA	50	0	$ -		$ 0.95	$ 47.50	$ -	$ -	$ -	$ -	Englewood
CNNTS002	CONNECTOR KIT, TRANSFORMER SECONDARY, SINGLE PHASE, CABLE SIZE 500KCM, 12-OUTLETS	ALCON SEE SPEC (CNNTS002KIT) CONNECTOR MANUFACTURING CO. SEE SPEC (K0027-I) ELECTRICAL SPECIALTY PRODUCTS SEE SPEC (UPM12-500-I-XB-K) HOMAC SEE SPEC (ABW500-66DSCK) POLARIS SEE SPEC (PSMTL500-66KPJEA) UTILCO SEE SPEC (PTF66-500122K)	0	EA	4	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CNNWC102	CONNECTOR, WIRE JOINT, PRESSURE CABLE CONNECTOR, INSULATED, WIRE RANGE MINIMUM 4 #18, MAXIMUM 2 #12 ***PACKAGE OF 50 EACH***NO SUBSTITUTE***	THOMAS AND BETTS RC55	0	EA	100	0	$ -		$ 0.57	$ 57.00	$ -	$ -	$ -	$ -	Englewood
CNNWC220	CONNECTOR, WIRE NUT, "R" ELECTRICAL SPRING CONNECTOR, SCOTCHLOK WIRE SIZE 14-10 AWG ***PACKAGE OF 100 EACH***	IDEAL 30-452 LAWSON PRODUCTS P35117 PARKER CYLINDERS B-BOX	0	EA	500	0	$ -		$ 0.18	$ 90.00	$ -	$ -	$ -	$ -	Englewood
CNNWE300	TEE, WELDMENT, 1" - 2 1/2" IPS TO 4 HOLE 3" PAD, ALUMINUM 356-T6.	ANDERSON WTTFR-10-24-C BURNDY CORP. SWAB19A-34N DOSSERT WTC2504NAA HOMAC AWBT-FK-4N SEFCOR WTF-3960-4A TRAVIS FOUNDRY - PDU 18-623-WR	DOSSERT WTC2504NAA	EA	1	12.39	$ 12.39		$ 23.38	$ 23.38	$ -	$ -	$ -	$ -	Anixter
CNNWE301	TAP, PARALLEL TEE, WELDMENT, ALUMINUM, 3"-6" IPS TUBE TO 4-HOLE FLAT (4" PAD) ANDERSON P/N WTTFR-30-60-D	ANDERSON WTTFR-30-60-D BURNDY CORP. SWAB86A-44N DOSSERT WTC6004N4AA HOMAC AWBT-LS-4NN SEFCOR WTF-6269-4B TRAVIS FOUNDRY - PDU 18-642-WR	SEFCOR WTF-6269-4B	EA	1	16.982	$ 16.98		$ 32.99	$ 32.99	$ -	$ -	$ -	$ -	Anixter
CNNWE408	CONNECTOR, WELDMENT BUS SUPPORT, ALUM., TUBE TO INSULATOR, 2" IPS TO 3" BCD, INCLUDING MOUNTING HARDWARE ANDERSON P/N WTH-20-3-B	ANDERSON WTH-20-3 DOSSERT HPS200-3B-CH-AA HOMAC AWBQ-3-3 SEFCOR ASWH-58-3-SE TRAVIS FOUNDRY - PDU 19-345	DOSSERT HPS200-3B-CH-AA	EA	1	47.124	$ 47.12		$ -	$ -	$ -	$ -	$ -	$ -	Anixter
CODST008	CONDUIT, STEEL, 3", .216" WALL, GALVANIZED AND THREADED ON BOTH ENDS W/COUPLING ATTACHED, 10'-SECTIONS BANDED, SHIP ON OPEN FLATBED TRUCK. SUITABLE FOR FORKLIFT UNLOADING. PURCHASE BY DESCRIPTION	ALLIED CONDUIT PER SPEC ITV PER SPEC NUCOR REPUBLIC PER SPEC SHAMROCK CONDUIT PRODUCTS PER SPEC (GRC300)	0	FT	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
COVIC001	COVER, "O" DIE, INSULATING, 1-3/4"	HOMAC C5-BB	0	EA	100	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
COVPS002	COVER, CLASS 4B FATIGUE RATED-ARTERIAL ROADWAY REPLACEMENT LID FOR (MANHO00S) W/ELECTRIC MARKER. REQUIRES CERTIFIED TESTING 45,000 LB FOR UP TO 500,000 CYCLES. 2 PIECES TO MAKE 1 LID.	HIGHLINE PRODUCT CORP. CVF363003XE00001O0JEA OLDCASTLE 36604406	0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CTLCU049	SWITCH, INDUCTIVE PROXIMITY, INTRINSICALLY SAFE, KRI REF. #923-412, USED ON CONTINUOUS SHIP UNLOADER PLC PANEL/SWITCH BOARD. WORK CT 4-9.	TURCK INC. NI15-P30-YOX	0	EA	2	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
CTLCU050	SWITCH, INDUCTIVE PROXIMITY, KRI REF. #923-412, USED ON CONTINUOUS SHIP UNLOADER BUCKET ELEVATOR. **INS ITEM**. WORK CT 4-9.	TURCK INC. NI15-S30-AZ3X	0	EA	2	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELEBT081	BATTERY, 6 VOLT, SQ. SCREW, EXPIRATION DATE MUST APPEAR ON EACH INDIVIDUAL ITEM	DURACELL S-17590 ENERGIZER 4LR25 EVEREADY BATTERY 510S RAYOVAC 945R4	0	EA	1	0	$ -		$ 3.56	$ 3.56	$ -	$ -	$ -	$ -	Englewood
ELECA604	CABLE, 16 GA. STRANDED, 2-COND. SHIELDED 1000', TEFLON INSULATION. WHITE.		0	FT	1000	0	$ -		$ 0.97	$ 965.00	$ -	$ -	$ -	$ -	Englewood
ELECA620	CABLE, 22 GA. 4-PAIR, INDIVIDUALLY SHIELDED, CONTINOUS 500-FT SPOOL PVC INSULATION, 105-DEGREE TEMP RATING	BELDEN 9330 CAROL CABLE C0572-41-10 OMNI CABLE D32204	0	FT	500	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELECA621	CABLE, 22 GA. 9-PAIR, INDIVIDUALLY SHIELDED, CONTINOUS 500-FT SPOOL PVC INSULATION, 105-DEGREE TEMP RATING	BELDEN 9332 CAROL CABLE C0574-41-10	0	FT	500	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELECA722	AUDIO CABLE, SHIELDED, 16 GA., 2-COND.	BELDEN 8780	0	FT	1000	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELECA730	CABLE, CONTROL, #12/4 COPPER, 600 V, 500' SPOOL	HOUSTON WIRE & CABLE HW15101204	0	FT	1500	0	$ -		$ 1.12	$ 1,680.00	$ -	$ -	$ -	$ -	Englewood
ELECA741	CABLE, #14 HI-TEMP, (200 DEG. C) WHITE, STRANDED, COPPER. 500 FT. SPOOL. HOUSTON WIRE & CABLE	HOUSTON WIRE & CABLE HW054-01401 WHITE OMNI CABLE C71401-02	0	FT	500	0	$ -		$ 0.34	$ 170.00	$ -	$ -	$ -	$ -	Englewood
ELECA751	CABLE, #12/3 S O CORD, 500' SPOOL	AMERICAN CONNECTOR ENGINEERS CABLE, #12/3 S O CORD, 500 GRAYBAR CABLE. #12/3 S O CORD. 500	0	FT	500	0	$ -		$ 1.42	$ 710.00	$ -	$ -	$ -	$ -	Englewood
ELECA767	CABLE, #6/4 S O CORD, 600 V, 500' SPOOL	AMERICAN CONNECTOR ENGINEERS CABLE, #6/4 S O CORD, 600	0	FT	1500	0	$ -		$ 5.38	$ 8,070.00	$ -	$ -	$ -	$ -	Englewood
ELECA795	CABLE, #12 THHN, ORANGE, STRANDED COPPER, 600V, 500' SPOOL	ENCORE WIRE CABLE,#12THHN,ORANGE STRANDED GENERAL ELECTRIC CABLE.#12THHN.ORANGE.STRANDED	0	FT	500	0	$ -		$ 0.24	$ 120.00	$ -	$ -	$ -	$ -	Englewood
ELECA810	CABLE, #8/3 CONDUCTOR, STRANDED COPPER ON 500 FT. SPOOL. "TRAY CABLE"	HOUSTON HW15400803 RAYBRO CABLE, #8/3 CONDUCTOR, STR SILVERLINE MARINE CABLE. #8/3 CONDUCTOR.	0	FT	500	0	$ -		$ 2.37	$ 1,185.00	$ -	$ -	$ -	$ -	Englewood
ELECA831	CABLE, #8/4 CONDUCTOR, S O CORD, 500' ROLL	HOUSTON WIRE & CABLE SEE DESCRIPTION	0	FT	500	0	$ -		$ 1.70	$ 850.00	$ -	$ -	$ -	$ -	Englewood
ELECA850	CABLE, #6 THHN, STRANDED COPPER, 600 V, 500' ROLL "BLACK"	SOUTHWIRE CO. OBD	0	FT	500	0	$ -		$ 0.60	$ 300.00	$ -	$ -	$ -	$ -	Englewood
ELECA855	CABLE, #4 THHN, STRANDED COPPER, 600 V, 1000' ROLL		0	FT	1000	0	$ -		$ 0.15	$ 150.00	$ -	$ -	$ -	$ -	Englewood
ELECA905	CABLE, #12/3, CONDUCTOR, 600-VOLT TRAY CABLE, **500' REEL LENGTHS**. HOUSTON #WCU TC123	AMERICAN INSULATED WIRE CORP. 20880 HOUSTON HW15101203	0	FT	1000	0	$ -		$ 1.50	$ 1,500.00	$ -	$ -	$ -	$ -	Englewood
ELECN022	CONTACT BLOCK, 1 NORM OPEN CONTACT, 600 VOLT G.E. CR2940U202, WORK CTR 1-6.	GENERAL ELECTRIC CO. CR2940U202	0	EA	1	0	$ -		$ 69.60	$ 69.60	$ -	$ -	$ -	$ -	Englewood
ELECN034	CONTACT BLOCK, 1 N.O. 1 N.C., SHALLOW BLOCK, 600 V ALLEN BRADLEY 800T-XA. WORK CT 1-6.	ABBEON CAL INC. 800T-XA ALLEN BRADLEY CO. 800T-XA	0	EA	1	0	$ -		$ 33.58	$ 33.58	$ -	$ -	$ -	$ -	Englewood
ELECX020	CIRCUIT BREAKER, TYPE QOB, 2-POLE, 30 AMPS, WORK CTR 1-6.	SQUARE D Q0B230	0	EA	2	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELEEN027	BOX, ELECTRICAL, 4" X 4" X 2 1/8" D, (1/2" & 3/4" KNOCKOUTS). WORK CTR 1-6.	STEEL CITY 52171 STEEL CITY 52171 1/2 & 3/4	0	EA	50	0	$ -		$ 0.26	$ 12.94	$ -	$ -	$ -	$ -	Englewood
ELEEN028	BOX, ELECTRICAL, WEATHER PROOF, 3/4" KNOCK-OUTS, WORK CTR 1-6.	BELL (HUBBELL-BELL SUBSIDARY) 275SL PERFECT LINE MFG. TX14-5-L PERFECT LINE MFG. TX145 RACO 5332-0	0	EA	8	0	$ -		$ 43.00	$ 344.00	$ -	$ -	$ -	$ -	Englewood
ELEEN225	COVER, ELECTRICAL BOX, 1 DUPLEX RECEPTACLE, STEEL BRYANT P/N 94101 RACO P/N 224, WORK CTR 1-6.	BRYANT ELECTRIC 94101 RACO 864	0	EA	4	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELEEN230	COVER, ELECTRICAL BOX, 2 DUPLEX RECEPTACLE, 4", 1/2" RAISED, WORK CTR 1-6.	RACO 907 STEEL CITY RS8CC	0	EA	3	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELEEN244	COVER, ELECTRICAL BOX, RECEPTACLE, WEATHER PROOF, DUPLEX, WORK CTR 1-6.	RACO 5146-0	0	EA	4	0	$ -		$ 3.93	$ 15.72	$ -	$ -	$ -	$ -	Englewood
ELEEN245	COVER, ELECTRICAL BOX, WALLPLATE, GFI RECEPTACLE, WET LOCATION, LEVITON, WORK CTR 1-6	LEVITON 6196 RACO 5A176S	0	EA	3	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELEEN247	COVER, ELECTRICAL WEATHER PROOF, ALUMINUM, SINGLE GANG BLANK, WORK CTR 1-6.	APPLETON 2555 BELL (HUBBELL-BELL SUBSIDARY) 240-AL CROUSE HINDS DS100 PERFECT LINE MFG. SP41G RACO 5173	APPLETON 2555	EA	4	0.644	$ 2.58		$ 6.16	$ 24.66	$ -	$ -	$ -	$ -	Anixter
ELEEN248	COVER, ELECTRICAL BOX, 1 DEVICE, 4 1/2" X 2 3/4", WEATHER PROOF. ALUMINUM FINISH. WORK CTR 1-6.	RACO 5155-0	0	EA	4	0	$ -		$ 2.60	$ 10.40	$ -	$ -	$ -	$ -	Englewood

ELEEN249	COVER, ELECTRICAL BOX, 2 DUPLEX DEVICE, 4 1/2" X 4 1/2", WEATHER PROOF, ALUMINUM FINISH, VERTICAL, WORK CTR 1-6.	BELL (HUBBELL-BELL SUBSIDARY) 223-2-V GENERAL ELECTRIC RX 5148-0 THOMAS AND BETTS PERFECTLINE WR281C		0	EA	3	0	$ -		$ 20.57	$ 61.71	$ -	$ -	$ -	$ -	Englewood
ELEEN250	COVER, ELECTRICAL BOX, 2 GANG, DUPLEX BLANK, WEATHER PROOF, ALUMINUM, BELL P/N 5175-0, WORK CTR 1-6.	BELL (HUBBELL-BELL SUBSIDARY) 5175-0 RACO 5175-0		0	EA	2	0	$ -		$ 2.01	$ 4.02	$ -	$ -	$ -	$ -	Englewood
ELEEN251	COVER, ELECTRICAL BOX, 2 DUPLEX BLANK, 4 1/2" X 4 1/2", ALUMINUM W/SCREWS, WORK CTR 1-6.	RACO V130LA20CP		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELEEN253	COVER, ELECTRICAL BOX, 1 DUPLEX BLANK, 4 1/2" X 2 1/2", GALVANIZED, STEEL CITY, WORK CTR 1-6.	STEEL CITY 58C1		0	EA	1	0	$ -		$ 0.55	$ 0.55	$ -	$ -	$ -	$ -	Englewood
ELEEN262	COVER, ELECTRICAL BOX, 1 RECEPTACLE, WEATHERPROOF, NON-LOCKING/LOCKINGPLUGS, APPLETON P/N FSK-WR1, WORK CTR 1-6.	APPLETON FSK-WR1	APPLETON FSK-WR1		EA	1	34.818	$ 34.82		$ 51.98	$ 51.98	$ -	$ -	$ -	$ -	Anixter
ELEEN501	BOX, ELECTRICAL, HANDY BOX, 2-1/8" DEEP, 1/2" KNOCKOUT, WORK CTR 1-6	RACO 670 STEEL CITY 58371 1/2		0	EA	1	0	$ -		$ 2.30	$ 2.30	$ -	$ -	$ -	$ -	Englewood
ELEEN545	ENCLOSURE, ELECTRICAL, WEATHER PROOF, WORK CTR 1-6.	PERFECT LINE MFG. T11-L RACO 5320-0 RED DOT CORP. IH3-1		0	EA	2	0	$ -		$ 2.75	$ 5.50	$ -	$ -	$ -	$ -	Englewood
ELEEN546	BOX, ELECTRICAL UNILET, TWO 3/4" OUTLETS ,MALLEABLE IRON APPLETON P/N FSS-1-75, WORK CTR 1-6.	APPLETON FSS-1-75	APPLETON FSS-1-75		EA	1	25.018	$ 25.02		$ 37.34	$ 37.34	$ -	$ -	$ -	$ -	Anixter
ELEEN547	BOX, ELECTRICAL UNILET, ONE 3/4" OUTLET, MALLEABLE IRON APPLETON P/N FS-1-75, WORK CTR 1-6.	APPLETON FS-1-75 CROUSE HINDS FS-2	APPLETON FS-1-75		EA	1	17.752	$ 17.75		$ 31.76	$ 31.76	$ -	$ -	$ -	$ -	Anixter
ELEFU073	FUSE, 20 A, 125 V, LAMINATED TUBE 13/32" X 1 1/2", WORK CTR 1-6.	BUSSMANN BAF-20 GOULD SHAWMUT FUSES OTM-20		0	EA	1	0	$ -		$ 3.27	$ 3.27	$ -	$ -	$ -	$ -	Englewood
ELEFU082	FUSE, 3 A, 250 V, ONE TIME, CARTRIDGE TYPE BUSSMAN P/N NON-3, WORK CTR 1-6.	BUSSMANN NON-3 GOULD SHAWMUT FUSES OT-3 LITTELFUSE NLN-3		0	EA	10	0	$ -		$ 3.04	$ 30.40	$ -	$ -	$ -	$ -	Englewood
ELEFU083	FUSE, 3 A, 32 V, SLOW BLOW, GLASS TUBE, DUAL ELEMENT, 1/4" X 1 1/4" BUSSMAN P/N MDL-3 GOULD SHAWMUT P/N GDL-3, WORK CTR 1-6.	BUSSMANN MDL-3 GOULD SHAWMUT FUSES GDL-3 LITTELFUSE 313-003		0	EA	1	0	$ -		$ 0.90	$ 0.90	$ -	$ -	$ -	$ -	Englewood
ELEFU276	FUSE, 15A, 600 V, FIBER TUBE 13/32" X 1-3/8", FAST BLOW, WORK CTR 1-6.	BUSSMANN KTK-15 LITTELFUSE KLK-15		0	EA	1	0	$ -		$ 10.16	$ 10.16	$ -	$ -	$ -	$ -	Englewood
ELEFU292	FUSE, 4 A, TIME DELAY, USED ON NASH VACUUM PUMP, WORK CTR 1-6.	BUSSMANN FNQR-4 LITTELFUSE KLDR-4		0	EA	6	0	$ -		$ 13.44	$ 80.64	$ -	$ -	$ -	$ -	Englewood
ELEFU378	FUSE, 5 AMP, KLDR, USED ON CT FOGGING SYSTEMS, NGS GE MOD. MS 7000 & KGS WESTINGHOUSE MOD. W501AA, WORK CTR 1-6.	GOULD SHAWMUT FUSES ATQR-5 LITTELFUSE KLDR005.TXP		0	EA	6	0	$ -		$ 15.36	$ 92.18	$ -	$ -	$ -	$ -	Englewood
ELEFU385	FUSE, 6 A, FLM, USED ON CT FOGGING SYSTEMS, NGS GE MOD. MS 7000 & KGS WESTINGHOUSE MOD. W501AA, WORK CTR 1-6.	GOULD SHAWMUT FUSES TRM-6 LITTELFUSE FLM-6		0	EA	1	0	$ -		$ 5.58	$ 5.58	$ -	$ -	$ -	$ -	Englewood
ELEFU446	FUSE, 1 A, 250 V FRN-R, KRI REF. #923-407, CONTINUOUS SHIP UNLOADER MCC'S, WORK CTR 4-9.	SQUARE D 2541300090		0	EA	2	0	$ -		$ 33.95	$ 67.91	$ -	$ -	$ -	$ -	Englewood
ELEFU448	FUSE, 1.5 A, 600 V KTK-R, KRI REF. #923-407, CONTINUOUS SHIP UNLOADER MCC'S, WORK CTR 4-9.	BUSSMANN KTK-R-1-1/2		0	EA	11	0	$ -		$ 10.44	$ 114.84	$ -	$ -	$ -	$ -	Englewood
ELEFU455	FUSE, 1 A, 5 X 20 MM, I/O RACK 0,1, LIMESTONE PREP, WORK CTR 4-9.	GOULD SHAWMUT FUSES GGM1 LITTELFUSE 235001P		0	EA	2	0	$ -		$ 0.92	$ 1.84	$ -	$ -	$ -	$ -	Englewood
ELEFU494	FUSE, 5 A, P/N FNQ-R-5, USED ON AC DRIVES, ASH BLOW BLDG. AND LIME FEEDER BELT, FUEL FEED DRAG CHAIN, WORK CTR 1-6.	BUSSMANN FNQ-R-5 LITTELFUSE KLDR 5 STOCK EQUIPMENT FE9101		0	EA	6	0	$ -		$ 12.75	$ 76.50	$ -	$ -	$ -	$ -	Englewood
ELEFU497	FUSE, P/N JKS400, USED ON 200 HP AC DRIVE, ASH BLOW BLDG., WORK CTR 1-6.	BUSSMANN JKS400		0	EA	2	0	$ -		$ 196.00	$ 392.00	$ -	$ -	$ -	$ -	Englewood
ELERL046	RELAY, 3PDT, 120 VAC COIL, 10 AMPS, POTTER BRUMFIELD P/N KUP-14A35-120, WORK CTR 1-6.	POTTER AND BRUMFIELD KUP-14A35-120		0	EA	5	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELERL326	HEATER, OVERLOAD, SQUARE D P/N B5.5, USED ON N03 KIDNEY PMP ON EHC SYS., WORK CTR 1-6.**UNIT 3	SQUARE D B5.5		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELESH390	SWITCH, PUSHBUTTON, 1 NO/1 NC CONTACT, BLACK RUBBER, WORK CTR 1-6.	ALLEN BRADLEY CO. 800H-R2A		0	EA	2	0	$ -		$ 86.59	$ 173.18	$ -	$ -	$ -	$ -	Englewood
ELESH427	SWITCH, PUSHBUTTON, 7 COLORED INSERTS INCLUDED, WORK CTR 1-6.	SQUARE D 9001-SKR-1U		0	EA	1	0	$ -		$ 27.29	$ 27.29	$ -	$ -	$ -	$ -	Englewood
ELESS004	SUPPRESSOR, VOLTAGE, TRANSIENT (STACKER RECLAIMER - FREQUENCY DRIVE PANEL)	LITTELFUSE V130LA20CP SVEDALA BULK MATERIALS HANDLIN 11120-4-301-17 SVEDALA BULK MATERIALS HANDLIN 11120-5-302-9		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELEXF034	TRANSFORMER, CONTROL, 0.75 KVA, PRI 230/460 V, SEC 120 V, WORK CTR 1-6.	CUTLER-HAMMER C0750K2A		0	EA	1	0	$ -		$ 968.54	$ 968.54	$ -	$ -	$ -	$ -	Englewood
ELEXF038	TRANSFORMER, CONTROL, .050 KVA, PRI 230/460 V, SEC 120 V, CUTLER-HAMMER P/N C0050EA2, WORK CTR 1-6.	CUTLER-HAMMER 42-2268 CUTLER-HAMMER C0050E2A		0	EA	1	0	$ -		$ 32.94	$ 32.94	$ -	$ -	$ -	$ -	Englewood
ELEXF041	TRANSFORMER, CONTROL, .200 KVA, PRI 230/460 V, SEC 120 V, WORK CTR 1-6.	CUTLER-HAMMER C341EC		0	EA	1	0	$ -		$ 276.14	$ 276.14	$ -	$ -	$ -	$ -	Englewood
ELEXF100	TRANSFORMER, 100 VA, PRI 480 V, SEC 120 V, USED ON N00 CONTINUOUS SHIP UNLOADER MCC'S, KRI REF. #923-407, WORK CTR 4-9.	SQUARE D 9070EL2D9		0	EA	1	0	$ -		$ 225.02	$ 225.02	$ -	$ -	$ -	$ -	Englewood
ELEXF101	TRANSFORMER, 150 VA, PRI 480 V, SEC 120 V, USED ON N00 CONTINUOUS SHIP UNLOADER MCC'S, KRI REF. #923-407, WORK CTR 4-9.	SQUARE D 9070EL3D9		0	EA	1	0	$ -		$ 257.07	$ 257.07	$ -	$ -	$ -	$ -	Englewood
ELEXF102	TRANSFORMER, 300 VA, PRI 480 V, SEC 120 V, USED ON N00 CONTINUOUS SHIP UNLOADER MCC'S, KRI REF. #923-407, WORK CTR 4-9.	SQUARE D 9070KL300D9		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELEXF119	TRANSFORMER, 1.5 KVA, PRI 480 V, SEC 120 V, USED ON N00 LIMESTONE FEEDER SYSTEM, WORK CTR 4-9.)	SQUARE D 9070-TF1500D1		0	EA	1	0	$ -		$ 643.76	$ 643.76	$ -	$ -	$ -	$ -	Englewood
ELMBC090	MONITOR, PHASE PLUG-IN MOUNTING, OCTAGON 8 PIN CONFIGURATION, AUTO RESET, 190-270 VAC., 50/60 HZ. DIVERSIFIED #SLA-230-ASA --OR-- SYRELEC #PWRU-220 **** NO SUBSTITUTES ****	DIVERSIFIED ELECTRONICS SLA-230-ASA SYRACUSE ELECTRONICS PWRU-220		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELMBG726	HEATER PACK, STARTER - FOR SIZE 1 STARTER. CUTLER HAMMER # H2011B-3 **NO SUBSTITUTE**	CUTLER-HAMMER H2011B-3		0	EA	1	0	$ -		$ 42.93	$ 42.93	$ -	$ -	$ -	$ -	Englewood
ELMBG735	HEATER PACK, STARTER - FOR SIZE 1 STARTER. CUTLER HAMMER # H2014B-3 **NO SUBSTITUTE**	CUTLER-HAMMER H2014B-3		0	EA	1	0	$ -		$ 42.93	$ 42.93	$ -	$ -	$ -	$ -	Englewood
ELMBG750	HEATER PACK, STARTER - FOR SIZE 3 & 4 STARTER, CUTLER HAMMER #H2022-3 **NO SUBSTITUTE**	CUTLER-HAMMER H2022-3		0	EA	1	0	$ -		$ 42.93	$ 42.93	$ -	$ -	$ -	$ -	Englewood
ELMBJ260	LAMP-60 WATT, 120 VOLT FROSTED 48/PKG, NAED #22114-3 60-A17/52/SS, SYL #17755	SYLVANIA 54A19TS/8M/SS		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELMCD180	RELAY,120V AC COIL,2-NO 0-NC TYPE N MAX RATING = 300V AC-DC FOR ALLEN BRADLEY	ALLEN-BRADLEY 700-N400A1		0	EA	1	0	$ -		$ 525.55	$ 525.55	$ -	$ -	$ -	$ -	Englewood
ELMCF680	STARTER, SIZE 1, NEMA-GENERAL PURPOSE, 120 VOLT COIL. FREEDOM SERIES. CUTLER-HAMMER #AN16DNOAB ***** NO SUBSTITUTE *****	CUTLER-HAMMER AN16DNOAB		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELMCF700	STARTER, SIZE 2, 240 VOLT. FREEDOM SERIES CUTLER-HAMMER #AN16GNOBB ***** NO SUBSTITUTE *****	CUTLER-HAMMER AN16GNOBB		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELMCF720	STARTER, SIZE 2, CUTLER HAMMER FREEDOM SERIES, ****NO SUBSTITUTE****	CUTLER-HAMMER AN16GNOAB		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELMCF780	STARTER, SIZE 4, FREEDOM SERIES. CUTLER-HAMMER #AN16NNOA ***** NO SUBSTITUTE *****	CUTLER-HAMMER AN16NNOA		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELMCF790	STARTER, SIZE 3, 120 VOLT COIL, 3 PHASE, WITHOUT CONTROL TRANSFORMER, NO ENCLOSURE, TO BE SUPPLIED WITH OVER-LOAD RELAY. CUTLER HAMMER #AN16KNOA ***** NO SUBSTITUTE *****	CUTLER-HAMMER AN16KNOA		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELMCM951	WIRE, TRACE, DIRECT BURY, #12 AWG HS-CCS, GREEN INSULATION, 0.03" HDPE INSULATION THICKNESS, .141"	COPPER HEAD INDUSTRIES SOLOSHOT-1230GHS500		0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELMCP643	TOOL, CRIMPING, COPPER, COMPRESSION, BURNDY TYPE "MY" DIELESS HYTOOL. TOOL RANGE SIZE TO BE #8-250. BURNDY TOOL #MY29-3	BURNDY CORP. MY29-3		0	EA	1	0	$ -		$ 628.15	$ 628.15	$ -	$ -	$ -	$ -	Englewood
ELNPC002	POWER SUPPLY, ALLEN BRADLEY P/N 1746-P2, USED ON SLC-500, WORK CTR 1-6.	ALLEN BRADLEY CO. 1746-P2		0	EA	1	0	$ -		$ 1,097.91	$ 1,097.91	$ -	$ -	$ -	$ -	Englewood
ELNPC050	PROCESSOR, ALLEN BRADLEY P/N 1747-L552, SLC/500, (USED ON CWTS CONTROL PANEL, RAW WATER HOUSE PLC'S, AND FUEL LOAD OUT PANEL), WORK CTR 1-6	ALLEN BRADLEY CO. 1747-L552		0	EA	1	0	$ -		$ 8,507.86	$ 8,507.86	$ -	$ -	$ -	$ -	Englewood
ELNSB019	SWITCH, PUSHBUTTON, USED ON N03 LOCAL FOWARD/REVERSE SOOTBLOWER MODEL IK525/IK545, WORK CTR 1-6.**UNIT 3 ONLY**	CROUSE HINDS E5000-208		0	EA	1	0	$ -		$ 293.62	$ 293.62	$ -	$ -	$ -	$ -	Englewood

ELNSG418	SWITCH, PUSHBUTTON, GE P/N CR104PTR20A0R01, 1 NC, LATCHING MUSHROOM STYLE, RED, USED ON N01/N02 POWELL 4160 V SWITCHGEAR. WORK CTR 1-6.	GENERAL ELECTRIC CO. CR104PTR20A0R01 POWELL APPARATUS CR104PTR20A0R01	0	EA	1	0	$ -		$ 69.12	$ 69.12	$ -	$ -	$ -	$ -	Englewood
ELNSG419	SWITCH, PUSHBUTTON, GE P/N CR104PBG10B1, 1 NC, STANDARD, BLACK CAP, USED ON N01/N02 POWELL 4160 V SWITCHGEAR. WORK CTR 1-6.	GENERAL ELECTRIC CO. CR104PBG10B1 POWELL APPARATUS CR104PBG10B1	0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELNSG468	CIRCUIT BREAKER, 60 A, 600V, MOLDED CASE, MOTOR CONTROL CENTER, 600V, SQUARE D MODEL 5. WORK CTR 1	SQUARE D FHL36060	0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELNSG487	COIL, SIZE 2, SQUARE D P/N 3106340938, KRI REF. #923-407. CONTINUOUS SHIP UNLOADER MCC'S. WORK CTR 4-	SQUARE D 3106340938	0	EA	1	0	$ -		$ 96.19	$ 96.19	$ -	$ -	$ -	$ -	Englewood
ELNST004	STARTER, NEMA SIZE 4, KRI REF. #923-407, CONTINUOUS SHIP UNLOADER MCC'S. WORK CTR 4-9.	SQUARE D 8536SFO1V02S	0	EA	1	0	$ -		$ 2,574.41	$ 2,574.41	$ -	$ -	$ -	$ -	Englewood
ELUCO025	COIL, CONTACTOR, 240 VAC, SIZE 00, SERIES B1, CUTLER HAMMER #9-2183-2 FOR FAN CONTACTOR ON FERRANTI PACKARD TRANSFORMER S/N 0678601001. 5 MVA	CUTLER-HAMMER CN15BN3BB	0	EA	1	0	$ -		$ 436.84	$ 436.84	$ -	$ -	$ -	$ -	Englewood
ELUCO035	SOLENOID, CLOSING PILOT VALVE FOR I-T-E OIL CIRCUIT BREAKER TYPE 69KSBS000-20B, S/N 41-20794-101, I.B. 051L015-20, PG.8. FIG.1. REF.23	ABB POWER T & D 843A01702 DETROIT COIL CO. (DECCO) 9-1966M	ABB POWER T & D 843A01702	EA	1	851.5	$ 851.50		$ -	$ -	$ -	$ -	$ -	$ -	Anixter
ELUPL001	PLUG, MALE, 60 AMP, 480 VAC MAX, 3 PHASE 3 POLE, 4 WIRE. TYPE "SC" WATERPROOF. ***NO SUBSTITUTE***	RUSSELLSTOLL 3328-78	0	EA	1	0	$ -		$ 1,229.99	$ 1,229.99	$ -	$ -	$ -	$ -	Englewood
ELUPL003	PLUG, FEMALE, 60 AMP, 480 VAC MAX, 3 PHASE, 3 POLE, 4 WIRE. TYPE "SC", INS ITEM. ***NO SUBSTITUTE***	RUSSELLSTOLL 3428-78	0	EA	1	0	$ -		$ 1,267.21	$ 1,267.21	$ -	$ -	$ -	$ -	Englewood
ELUPL005	RECEPTACLE, ANGLE TYPE CIRCUIT BREAKING, TYPE "SCA" WATERPROOF WITH SCREW CAP, 60 AMP, 480 VAC MAX. 3 PHASE. 3 POLE. 4 WIRE. ***NO SUBSTITUTE***	RUSSELLSTOLL 3324-78	0	EA	4	0	$ -		$ 1,701.42	$ 6,805.69	$ -	$ -	$ -	$ -	Englewood
ELUPL006	RECEPTACLE, ANGLE TYPE CIRCUIT BREAKING, TYPE "SCA" WATERPROOF WITH SCREW CAP, 60 AMP, 480 VAC MAX. 1 PHASE. 2 POLE. 3 WIRE. NO SUBSTITUTE***	RUSSELLSTOLL 3323-78	0	EA	9	0	$ -		$ 1,973.84	$ 17,764.52	$ -	$ -	$ -	$ -	Englewood
ELUPL007	CONNECTOR, FEMALE PLUG ONLY, CON-630 SERIES FOR #16/3 TYPE "SO" CABLE, 3 PINS MILITARY SPEC MS-3106E16-10S FOR 900, 910 SERIES RAPID PRESSURE RISE RELAY	QUALITROL CON-630-10	0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELUPL009	RESTRAINER, WIRE, CG SERIES CROUSE-HINDS P/N CGB195	CROUSE HINDS CGB195	0	EA	16	0	$ -		$ 12.20	$ 195.20	$ -	$ -	$ -	$ -	Englewood
ELUPL023	CABLE, #16/8 X 48" LONG, TYPE "SOW", WITH CON-687 SERIES 8 PIN FEMALE RASS CONNECTOR. QUALITROL	QUALITROL CON-687-1	0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELUPL024	CONNECTOR ASSEMBLY, 120" LONG, #16/3 TYPE SO CABLE, STANDARD QUALITROL FEMALE PLUG FOR GAS ACCUMULATION DETECTION RELAY, QUALITROL P/N CON-603-21	QUALITROL CON-603-21	0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELURE018	RESISTOR, 2000 OHM, 125 VDC, PLUG-IN TYPE FOR G.E. INDICATING LAMP TYPE ET-16	GENERAL ELECTRIC CO. 165A7844P3	0	EA	16	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
ELURE045	RESISTOR, 1900 OHMS, 120 VAC, PLUG-IN TYPE, FOR G.E. TYPE ET-16 INDICATING LAMP	GENERAL ELECTRIC CO. 0165A7844P5	0	EA	2	0	$ -		$ -	$ -	$ -	$ -	$ 26.64	$ 53.28	Irby
ELUTB001	TERMINAL BOARD, 6-CIRCUIT, WIRE SIZE 10-18 AWG, WITH WHITE MARKING STRIP	GENERAL ELECTRIC CO. EB25B06	0	EA	4	0	$ -		$ -	$ -	$ -	$ -	$ 14.51	$ 58.04	Irby
ELUTB002	BOARD, TERMINAL, 12 CIRCUIT, WIRE SIZE - #10-18 AWG WITH WHITE MARKING STRIP	GENERAL ELECTRIC CO. EB25B12 GENERAL ELECTRIC CO. EB25B12C	0	EA	14	0	$ -		$ -	$ -	$ -	$ -	$ 33.96	$ 475.44	Irby
ELUTB003	TERMINAL BOARD, 4-CIRCUIT, WIRE SIZE 10-18 AWG, SHORT CIRCUITING STRIP	GENERAL ELECTRIC CO. EB27B04S	0	EA	50	0	$ -		$ -	$ -	$ -	$ -	$ 19.03	$ 951.50	Irby
ENCOD004	ENCLOSURE, OUTDOOR, 64"" X 19"" X 30"" THREE PHASE JUNCTION (SHIP TO: 2325 EMERSON ST., JAX., FL 32207)	BARFIELD MANUFACTURING CO. BSSSE1964 39TP-H-223-JEA CONTINENTAL COLUMBUS CORP. (PER SPEC) SW-364-19-TH-SS POWERGRID SOLUTIONS INC. PER SPEC SSEJ315/2S3064195S3FA	0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
FIBBD001	BANDING MATERIAL, TYPE 201 STAINLESS STEEL, 1-1/4" X .044" X 100' (EACH = 100 FT)	ALUMA FORM 11/4-201-SSB-100 BANDIT G43299	ALUMA FORM 11/4-201-SSB-100	EA	89	553	$ 49,217.00		$ -	$ -	$ -	$ -	$ 553.00	$ 49,217.00	Anixter
FIBBX001	FIBER-OPTIC CABLE STORAGE CLOSURE 48H X 12D X 30W, POLE MOUNT BOTTOM CABLE ENTRANCE, 100-FT STORAGE, 12 GAUGE ALUMINUM, POWDER GREEN, SLIDE OUT BOTTOM PANEL	BARFIELD MANUFACTURING CO. BA163148FMDD-SB FUTURE WORKS FW304812AL	BARFIELD MANUFACTURING CO. BA163148FMDD	EA	17	1238.8275	$ 21,060.07		$ -	$ -	$ -	$ -	$ 1,040.00	$ 17,680.00	Irby
FIBCL001	CLEVIS, THIMBLE, FIBER OPTIC CABLE, 20,000# RATING, FOR DEADENDING	PREFORMED LINE PRODUCTS CO. ATC-20M	0	EA	360	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
FIBCP001	CONNECTOR, PANEL MODULE, 6-PER MODULE ST SINGLE MODE CONNECTOR	CORNING OPTICAL COMMUNICATIONS FDC-CP1P-06-19	0	EA	90	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
FIBDE001	DEADEND, PREFORMED, FOR .52" DIAMETER FIBER OPTIC CABLE	PREFORMED LINE PRODUCTS CO. 28729951	0	EA	60	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
FIBPE004	CONDUIT, ORANGE 1-INCH POLYETHYLENE COILABLE, SDR 13.5 FIBER OPTIC CONDUIT, SMOOTH WALL DUCT FROM VIRGIN HIGH-DENSITY POLY RESIN. TYPE III, CLASS C, CATEGORY 3, UV PROTECTED, GRADE P34 POLY PER JEA SPEC. SHIP TO 2325 EMERSON ST 32207	AEROQUIP PER SPECIFICATION AMERICON INTERNATIONAL PER SPECIFICATION ARNCO INC. PER SPECIFICATION BLUE DIAMOND INDUSTRIES, LLC PER SPEC DURA-LINE PER SPECIFICATION FOUR STAR INDUSTRIES PER SPEC (100420S8NN) LAMSON PIPE COMPANY PER SPEC PERFORMANCE PIPE,LP PER SPECIFICATION PETROFLEX PER SPECIFICATION	DURA-LINE PER SPECIFICATION	FT	2000	0.5775	$ 1,155.00		$ -	$ -	$ -	$ -	$ -	$ -	Anixter
FIBPE012	CONDUIT, COILABLE, 3-COLORS PARELLELED ON ONE 96" REEL (GREEN,&ROWN,GRAY) 1-1/4 INCH POLYETHYLENE, SDR 13.5, SEE JEA SPEC; 1 REEL OF 2,000 FT = SET OF ALL COLORS. EACH 2000 FT REEL WILL HAVE 2000 FT OF EACH COLOR. SO 6000 FT QUANTITY = 3 REELS WITH EACH REEL HAVING 2000 FT OF EACH COLOR. (SHIP TO: 2325 EMERSON ST., JAX., FL 32207)	AMERIPLAST PER SPECIFICATION ARNCO INC. PER SPECIFICATION BLUE DIAMOND INDUSTRIES, LLC PER SPEC DURA-LINE PER SPECIFICATION FOUR STAR INDUSTRIES PER SPEC (1254(7,8,9)0S8NN) JM EAGLE PER SPECIFICATION LAMSON PIPE COMPANY PER SPEC PERFORMANCE PIPE,LP PER SPECIFICATION PETROFLEX PER SPECIFICATION	DURA-LINE PER SPECIFICATION	FT	6000	0.783	$ 4,698.00		$ -	$ -	$ -	$ -	$ -	$ -	Anixter
FIBPP001	PANEL, PATCH, FIBER DISTRIBUTION SECTOR 72 PORT SEICOR MODEL #FDC-002	CORNING OPTICAL COMMUNICATIONS FDC-002	0	EA	3	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
FIBPP002	PANEL, PATCH, FIBER DISTRIBUTION, RACK MOUNT, ACCEPTS 12 6-IN PANELS. SIZE 8.7" X 17" X 11", WEIGHT 15LBS	CORNING OPTICAL COMMUNICATIONS FDC-CMH-072	0	EA	4	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
FIBSR002	EXPANSION KIT (2181-LS CABLE ADDITION KIT) USED WITH 3M LARGE CLOSURE FOR FIBER CABLES	CORNING OPTICAL COMMUNICATIONS 80611486798	0	EA	17	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
FIBST003	TRAY, SPLICE, FIBER OPTIC CABLE FOR 12 HEAT SHRINK SPLICES WITH CLEAR PLASTIC COVER	CORNING OPTICAL COMMUNICATIONS M-67-048-C	0	EA	200	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
FIBST005	TRAY, SPLICE, USED WITH 3M MEDIUM/LARGE CLOSURE FOR FIBER CABLES.	DOW CORNING 80611325871	0	EA	95	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
FIBSU002	SUPPORT, TANGENT, FOR .54"- .594" DIAMETER FIBER OPTIC CABLE ***SPO = 10 EA***	PREFORMED LINE PRODUCTS CO. 44009798	0	EA	180	0	$ -		$ 30.74	$ 5,533.41	$ -	$ -	$ -	$ -	Englewood
FUSHO026	SWITCH, HOOK STICK OPERATED FUSED DISCONNECT, STATION CLASS, VERTICALLY MOUNTED, TYPE SMD40 25 KV, MOUNTING LESS INSULATORS, INCLUDING FUSE-UNIT END FITTINGS W/SILENCER, TINNED TERMINAL PADS.**USED ON 26KV PT'S & STATION SERVICES &	S AND C ELECTRIC CO. 192323-S103	0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ 1,706.04	$ 1,706.04	Irby
FUSSU034	FUSE, 1 AMP, 250 VOLT, CARTRIDGE, TYPE K5	COOPER IND., BUSSMANN DIVISION NON-1 SHAWMUT FUSES OT-1	0	EA	1	0	$ -		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
FUSSU039	FUSE, 10 A, 250 V, CARTRIDGE TYPE TIME DELAY, DUAL ELEMENT	BUSSMANN FRN-R-10 LITTELFUSE FLNR-10	0	EA	10	0	$ -		$ 5.35	$ 53.53	$ -	$ -	$ -	$ -	Englewood
FUSSU199	FUSE, 1 AMP, 25 KV, S&C ELECTRIC TYPE SMU-40, TCC 115-2. P/N 823001. USED WITH SMD-40 MOUNTINGS	S AND C ELECTRIC CO. 823001	0	EA	4	0	$ -		$ -	$ -	$ -	$ -	$ 425.27	$ 1,701.08	Irby
FUSSU204	FUSE, POWER UNIT, 300 AMP, 34.5 KV, SLOW TCC 119-1, S&C ELECTRIC TYPE SMD-2C ***NO SUBSTITUTE***	S AND C ELECTRIC CO. 484300R3	0	EA	3	0	$ -		$ -	$ -	$ -	$ -	$ 1,706.04	$ 5,118.12	Irby
FUSSU206	FUSE, 10E AMP, 15 KV, TYPE SMU-40, S&C ELECTRIC P/N 822010	S AND C ELECTRIC CO. 822010	0	EA	3	0	$ -		$ -	$ -	$ -	$ -	$ 415.38	$ 1,246.14	Irby
FUSSU222	FUSE, 125 AMP, 34.5 KV, TYPE SMD-20 (FOR JOSLYN 34.5 KV MODEL VBM)	S AND C ELECTRIC CO. 614125	0	EA	2	0	$ -		$ -	$ -	$ -	$ -	$ 181.32	$ 362.64	Irby
FUSSU228	FUSE, 0.5 E AMP, 38 KV, BUSSMANN TYPE CAVH, FOR NORTHSIDE AUXILIARY SUBSTATION POWELL'S 38 KV SWITCHGEAR	COOPER IND., BUSSMANN DIVISION 38CAVH0.5E	0	EA	1	0	$ -		$ 466.47	$ 466.47	$ -	$ -	$ -	$ -	Englewood

FUSUG035	FUSE, 25E, FOR 1 & 3 PHASE UG DIST. LATERALS (S&C) SM-4 EXPENDABLE FUSE UNITS FOR PRIMARY FUSING OF LIVEFRONT SWITCHGEAR..	S AND C ELECTRIC CO. 123040R4	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ 202.75	$ 202.75	Irby
FUSUG036	FUSE, 30E, FOR 1 & 3 PHASE UG DIST. LATERALS (S&C) SM-4 EXPENDABLE FUSE UNITS FOR PRIMARY FUSING OF	S AND C ELECTRIC CO. 123050R4	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ 202.75	$ 202.75	Irby
FUSUG037	FUSE, 40E, FOR 1 & 3 PHASE UG DIST. LATERALS (S&C) SM-4 EXPENDABLE FUSE UNITS FOR PRIMARY FUSING OF LIVEFRONT SWITCHGEAR..	S AND C ELECTRIC CO. 123060R4	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ 202.75	$ 202.75	Irby
FUSUG038	FUSE, 50E, FOR 1 & 3 PHASE UG DIST. LATERALS (S&C) SM-4 EXPENDABLE FUSE UNITS FOR PRIMARY FUSING OF LIVEFRONT SWITCHGEAR..	S AND C ELECTRIC CO. 123075R4	0	EA	3	0	$ -	$ -	$ -	$ -	$ -	$ 202.75	$ 608.25	Irby
FUSUG039	FUSE, 65E, FOR 1 & 3 PHASE UG DIST. LATERALS (S&C) SM-4 EXPENDABLE FUSE UNITS FOR PRIMARY FUSING OF LIVEFRONT SWITCHGEAR..	S AND C ELECTRIC CO. 123100R4	0	EA	10	0	$ -	$ -	$ -	$ -	$ -	$ 202.75	$ 2,027.50	Irby
FUSUG040	FUSE, 80E, FOR 1 & 3 PHASE UG DIST. LATERALS (S&C) SM-4 EXPENDABLE FUSE UNITS FOR PRIMARY FUSING OF LIVEFRONT SWITCHGEAR..	S AND C ELECTRIC CO. 123125R4	0	EA	15	0	$ -	$ -	$ -	$ -	$ -	$ 202.75	$ 3,041.25	Irby
FUSUG041	FUSE, 100E, FOR 1 & 3 PHASE UG DIST. LATERALS (S&C) SM-4 EXPENDABLE FUSE UNITS FOR PRIMARY FUSING OF LIVEFRONT SWITCHGEAR..	S AND C ELECTRIC CO. 123150R4	0	EA	25	0	$ -	$ -	$ -	$ -	$ -	$ 202.75	$ 5,068.75	Irby
FUSUG042	FUSE, 150E, FOR 1 & 3 PHASE UG DIST. LATERALS (S&C) SM-4 EXPENDABLE FUSE UNITS FOR PRIMARY FUSING OF LIVEFRONT SWITCHGEAR.	S AND C ELECTRIC CO. 123250R4	0	EA	100	0	$ -	$ -	$ -	$ -	$ -	$ 202.75	$ 20,275.00	Irby
FUSUG047	FUSE, 125E, FOR 1 & 3 PHASE UG DIST. LATERALS (S&C) SM-4 EXPENDABLE FUSE UNITS FOR PRIMARY FUSING OF LIVEFRONT SWITCHGEAR..	S AND C ELECTRIC CO. 123200R4	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ 202.75	$ 202.75	Irby
GAUCM004	GAUGE, PRESSURE/VACUUM, +10 PSIG TO -10 PSIG VACUUM QUALITROL MODEL #050-35E	QUALITROL 050-35E	0	EA	7	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
GAUTP019	GAUGE, REMOTE WINDING TEMPERATURE, 6", 0-160 DEG. C, 3 SWITCH, 192" CAPILLARY, QUALITROL TYPE AWR-102. FOR GE TRANSFORMER S/N M102006 @ (SJRPP)	GENERAL ELECTRIC CO. W8013BEP31 QUALITROL 104-379-01	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
GAUTP021	GAUGE, REMOTE WINDING TEMPERATURE, 0-180 DEGREE C, ALARMS 70/80/95/120 DEGREE C, FOR WAUKESHA TRANSFORMERS S/N A354BT	QUALITROL CORP. 104-314-01 WAUKESHA ELECTRIC SYSTEMS INC. 0910213R0110	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
GCBBB109	O-RING, VACUUM FILL VALVE FOR BBC SF6 GAS CIRCUIT BREAKER TYPE 145PA40, S/N C00335-101, I.B. 6.4.1.7-1A PG.35. FIG.13. REF.13071. 90022 ALSO FITS 242PA40	ABB POWER T & D 674A015-01	ABB POWER T & D 674A015-01	EA	2	4.2	$ 8.40	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
GCBBB115	DISK, RUPTURE FOR BBC SF6 GAS CIRCUIT BREAKER TYPE 145PA40, S/N C00335-101, I.B. 6.4.1.7-1B PG.35, FIG.12, REF.13046. P/N 366B054-02	ABB POWER T & D 366B054-02	ABB POWER T & D 366B054-02	EA	2	3224	$ 6,448.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
GCBBB208	PUMP, HYDRAULIC FOR BBC SF6 GAS CIRCUIT BREAKER TYPE 145PA40, S/N C00335-101, I.B. 6.4.1.7-1B PG.37, FIG.17. REF.16062.	ABB POWER T & D GPFX731123R2	ABB POWER T & D GPFX731123R2	EA	3	11781.9	$ 35,345.70	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
GCBBB217	O-RING, POSITION INDICATOR COVER FOR ABB SF6 GAS CIRCUIT BREAKER TYPE 242PA40, S/N 101266-01, I.B. 641P001-02. PG.10. FIG.1. REF.51042	ABB POWER T & D GPFX730250P1	ABB POWER T & D GPFX730250P1	EA	2	141.4	$ 282.80	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
GCBBB222	BUSHING, MOUNTING (HYDRAULIC SWITCH) FOR BBC SF6 GAS CIRCUIT BREAKER TYPE 242PA40, S/N C00262-101, IB 6.4.2.7-1A ABB P/N GPHL010219P1 FOR HKA-12	ABB POWER T & D GPHL010219P1	ABB POWER T & D GPHL010219P1	EA	14	903.5	$ 12,649.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
GCBBB223	GLASS & O-RING KIT, HYDRAULIC OIL LEVEL FOR BBC SF6 GAS CIRCUIT BREAKER , TYPE 145PA40 OR 242PA40, S/N C00335-101. I.B. 6.4.1.7-1B. PAGE 37. FIG. 17	ABB POWER T & D KA000072-01	ABB POWER T & D KA000072-01	EA	1	678.6	$ 678.60	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
GCBBB225	SEAL & DESICCANT KIT, 10 YEAR MAINTENANCE FOR BBC SF6 GAS CIRCUIT BREAKER TYPE 242PA40, S/N C0304-101. ***SUB MS101 #5178***	ABB POWER T & D KA00000904	ABB POWER T & D KA00000904	EA	1	7580.3	$ 7,580.30	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
GRICA001	GRIP, CABLE, FOR TERMINATION OF 1000KCM CABLE ON SUBSTATION STRUCTURE	KELLEMS 022-01-1263	0	EA	1	0	$ -	$ 72.82	$ 72.82	$ -	$ -	$ -	$ -	Englewood
GRISA001	SUSPENSION, ARMOR GRIP, ASSEMBLY, SINGLE COND. SIZE- 556 ACSR	DULMISON HSU2305 PREFORMED LINE PRODUCTS CO. AGS-5121 SLACAN 80240	0	EA	126	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
GRISA004	SUSPENSION, ARMOR GRIP, ASSEMBLY, SINGLE COND. SIZE- 954 ACSR	DULMISON HSU2985 PREFORMED LINE PRODUCTS CO. AGS-5134 SLACAN 80248	0	EA	47	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
GUALI006	GUARD, LINE, ALUMINUM, 3/0ACSR SIW 29" LG., RANGE .491" - .521"	CHANCE 29AMG-035 DULMISON ALG1245 FLORIDA WIRE AND CABLE FWLG-29-111 HELICAL 29ALG-526 PAYER PIGEON-29-AL PREFORMED LINE PRODUCTS CO. MG-0139 SLACAN 80734	HELICAL 29ALG-526	EA	50	4.9	$ 245.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
GUALI007	GUARD, LINE, ALUMINUM, 336AAC SIZE 35" LG., RANGE .656" - .679"	CHANCE 35AMG-047 DULMISON ALG1665 FLORIDA WIRE AND CABLE FWLG-35-117 HELICAL 35ALG-532 PREFORMED LINE PRODUCTS CO. MG-0145 SLACAN 80746	HELICAL 35ALG-532	EA	18	9.324	$ 167.83	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
GUYGR003	GRIP, GUY, 1/2", 34", GALVANIZED	DULMISON SGG-1255C FLORIDA WIRE AND CABLE FLB-3800 HELICAL HG-312-1/2 PREFORMED LINE PRODUCTS CO. BG-2115 SLACAN 15910	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
INDCF004	INDICATOR, LED LIGHT CABLE FAULT, 400 AMP AUTOMATIC TRIP / RESET FOR 1/0 PRIAMARY CABLE WITH 10' LIGHT EXTENSION LED	POWER DELIVERY PRODUCTS #29-6214-10FO SMART GRID SOLUTIONS #FI-3C-C04NAX-10	0	EA	1500	130	$ 195,000.00	$ -	$ -	$ 109.47	$ 164,205.00	$ -	$ -	Gresco
INDCF012	INDICATOR, CABLE FAULT, SINGLE PHASE AUTO. RESET FOR U/G FEEDER APPLICATION 1500-A TRIP, RED FLASHING LED INDICATION WITH 10-FT HARD WIRED LEAD, 4-HOUR RESET BATTERY POWERED, FOR 1000-KCM CABLE WITH 2.25" DIAMETER	POWER DELIVERY PRODUCTS 29-6215-10FO SMART GRID SOLUTIONS FI-3C-C04NCX-10	POWER DELIVERY PRODUCTS 29-6215-10FO	EA	50	156	$ 7,800.00	$ -	$ -	$ 136.84	$ 6,842.00	$ -	$ -	Gresco
INDCF023	INDICATOR, CABLE FAULT, SINGLE PHASE, 3 AMP TRIP DUAL FUNCTION MODEL, LED INDICATION, 4 HR RESET WITH CURRENT OVERRIDE AND 4 HOUR RESET ON SINGLE LED. *** 27 EACH STANDARD CARTON QUANTITY.	SCHWEITZER ENGINEERING LABORAT #AR360-4-4	#N/A	#N/A	#N/A	#N/A		$ -	$ -	$ -	$ -	$ -	$ -	No Bid
INRSC002	INTERRUPTER UNIT, COMPLETE, 138 KV FOR S&C ELECTRIC CIRCUIT SWITCHER TYPE MARK-5, S.O.# 7-470961, P/N SA-40317-A ***SPECIAL PACKAGING REQUIRED FOR LONG TERM STORAGE***	S AND C ELECTRIC CO. SA-43828-A	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ 14,212.09	$ 14,212.09	Irby
INSGB009	INSULATOR, STRAIN, 144" ROD LENGTH, 50,000# RATED STRENGTH. CLEVIS-ROLLER ENDS.	MACLEAN POWER SYSTEMS GCC50-144R-SC	0	EA	49	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
INSLP015	INSULATOR, BRACED LINE POST, SILICONE, 230 KV, GAIN BASE, MINIMUM LEAKAGE DISTANCE IS 242 INCHES, MINIMUM DRY ARC DISTANCE IS 160 INCHES, POST SECTION LENGTH IS 180 INCHES (SHIP TO: 2325 EMERSON ST.. JAX.. FL 32207) SHIP ON OPEN FLATBED	MACLEAN POWER SYSTEMS B3931180T12136VA	0	EA	24	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
INSLP020	INSULATOR, BRACED LINE POST, SILICONE, 230 KV, FLAT BASE, MIN. LEAKAGE DISTANCE IS 242 INCHES, MIN. DRY ARC DISTANCE IS 160 INCHES, POST SECTION LENGTH IS 180 INCHES (SHIP TO: 2325 EMERSON ST., JAX., FL 32207) SHIP ON OPEN FLATBED	MACLEAN POWER SYSTEMS B3131180T121136VA	0	EA	4	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
INSPG205	INSULATOR, STATION POST, TR-205, ANSI-70 GRAY, STANDARD STRENGTH, 15 KV CLASS, 110 KV BIL, 3" BCD, 10" HEIGHT, TAPPED HOLES TO BE FILLED WITH RUST INHIBITIVE GREASE & PLASTIC CAPS INSERTED	LAPP 315205-70 NEWELL 23100Z-7001 NGK-LOCKE, INC. PS01110 VICTOR INSULATORS 17S1I	NGK-LOCKE, INC. PS01110	EA	1	44.52	$ 44.52	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
INSPG304	INSULATOR, STATION POST, TR-304, ANSI-70 GRAY, STANDARD STRENGTH, 230 KV CLASS, 900 KV BIL, 5" BCD, 80" HEIGHT ***TAPPED HOLES TO BE FILLED WITH RUST INHIBITIVE GREASE & PLASTIC CAPS INSERT- ED*** INDIVIDUAL STACKING UNITS CRATED SEPERATEL	LAPP 315304-70 NEWELL 47805-7001 NGK-LOCKE, INC. PS090201 PORCELAIN PRODUCTS CO. 900SU VICTOR INSULATORS 17PA23	NGK-LOCKE, INC. PS090201	EA	1	575.4	$ 575.40	$ -	$ -	$ -	$ -	$ -	$ -	Anixter

INSPG308	INSULATOR, STATION POST, TR-308, ANSI-70 GRAY, HIGH STRENGTH, 230 KV CLASS, 900 KV BIL, 5" BCD, 80" HEIGHT, UNIFORM - TAPPED HOLES TO BE FILLED WITH RUST INHIBITIVE GREASE & PLASTIC CAPS INSERTED	LAPP 315308-70 NEWELL 47825-7001 NGK-LOCKE, INC. PH090201 PORCELAIN PRODUCTS CO. 900HU VICTOR INSULATORS 17PA28	PORCELAIN PRODUCTS CO. 900HU	EA	1	658.42	$ 658.42	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
INSSU005	INSULATOR, SUSPENSION, 10", CLASS 52-8, STRENGTH 40000#, GALVANIZED FITTINGS	LAPP 61236H-70 NGK 40S360 PSN COMPONENTS PSN101-320	0	EA	10	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
JUNLO001	JUNCTION, LOADBREAK, 25 KV 125 BIL THREE POINT SYSTEM, SHILDED AND SUBMERSIBLE 200 AMPS RATING	BLACKBURN JJ2C1033H COOPER POWER SYSTEMS LJ225C3B ELASTIMOLD 274J3 HUBBELL 228J3B	ELASTIMOLD 274J3	EA	37	338	$ 12,506.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
LINPU001	PULL LINE, POLY 6500 FT. IN BUCKET, 200 POUND PULL STRENGTH	CONDUX INTERNATIONAL 85612-85 GREENLEE TOOL 430	0	EA	37	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LRDIT002	ROD, LIFT & CROSSBAR ASSEMBLY, PHASE B FOR I-T-E OIL CIRCUIT BREAKER TYPE 69KSB5000-20B, S/N 41-20693-1011. I.B. 051L015-20. PG.13. FIG.2. REF.116	ABB POWER T & D 326A04004	ABB POWER T & D 326A04004	EA	1	14050.4	$ 14,050.40	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
LTGBL029	BALLAST, LAMP, FLOURESCENT, FOR (2) F96T12, F72T12 LAMPS OR (2) ENERGY SAVING 60W/120V/425MA LAMPS, WORK CTR 1-6.	SYLVANIA QTP2X96T12UNV	0	EA	1	0	$ -	$ 129.25	$ 129.25	$ -	$ -	$ -	$ -	Englewood
LTGBL067	BALLAST, 400 WATT HIGH PRESSURE SODIUM LAMP, 480 VAC UNIV. USED ON PARKING GARAGE LIGHT, WORK CTR 1-6.	PHILIPS ADVANCE 71A8453001D	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LTGHR037	HOLDER, LAMP, 660 WATT 250 V, PONY CLEAT PORCELAIN, MEDIUM BASE LEVITON 19062, WORK CTR 1-6.	LEVITON #19062 PAULDING #A50714	#N/A	#N/A	#N/A	#N/A		$ 10.67	$ 42.68	$ -	$ -	$ -	$ -	Englewood
LTGIN028	RECEPTACLE, INDICATING LAMP FOR G.E. TYPE ET-16 OR ET-17 ***SUB MS101#2551***	GENERAL ELECTRIC CO. 0116B6709G1	0	EA	3	0	$ -	$ -	$ -	$ -	$ -	$ 24.60	$ 73.80	Irby
LTGIN055	LIGHT, WARNING, RED STROBE, 120VAC, KRI REF. #923-425, CONTINUOUS SHIP UNLOADER WARNING LIGHTS AND TONE MODULES. WORK CTR 4-9.	FEDERAL SIGNAL CORP. 151-XST-120R	0	EA	1	0	$ -	$ 535.58	$ 535.58	$ -	$ -	$ -	$ -	Englewood
LTGLP047	LAMP, FLUORESCENT, 32 WATT, MED. BI-PIN (G13) BASE, TRIMLINE T8, R830 PHOSPHOR, 48" LGH., 1" DIA., WORK CTR 1-6.	GENERAL ELECTRIC F32T8/SPX30 PHILIPS LIGHTING F32T8/TL830/ALTO SYLVANIA F032/835/ECO WESTWARD 6VR89	0	EA	90	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LTGLP051	LAMP, INCANDESCENT, 100 WATT, 115V-130V MEDIUM BASE, ROUGH SERVICE, WORK CTR 1-6.	GENERAL ELECTRIC CO. 100A/RS 130V PHILLIPS LIGHTING 100 A/RS/VS SYLVANIA 100A19/RS	0	EA	48	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LTGLP060	LAMP, LED, 75 WATT EQUIVALENT, 125 VOLT, 60Hz, DAYLIGHT, WORK CENTER1-6	CREE A19-75W-27K-U1 TOPAZ LIGHTING CORP. LA19/11W/27K/D-46	0	EA	37	0	$ -	$ 4.75	$ 175.75	$ -	$ -	$ -	$ -	Englewood
LTGLP091	LAMP, MINIATURE, 120 VOLTS, 6 WATTS, MINIATURE BAYONET BASE, NN01/N02 PA FAN LO SKID PANEL, WORK CTR 1-6.	GENERAL ELECTRIC CO. 120MB SQUARE D 2550101027	0	EA	4	0	$ -	$ 1.19	$ 4.75	$ -	$ -	$ -	$ -	Englewood
LTGLP097	LAMP, MINIATURE, 24 VOLT, .035 AMP, SLIDE NO. 2 BASE	LED TRONICS UTL24X-1IW	0	EA	22	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LTGLP111	LAMP, MINIATURE, 55 VOLTS, .05A, T 3 1/4 MINIATURE BAYONET BASE, GENERAL ELECTRIC, (SAME AS ID #LTG-LP 006)	GENERAL ELECTRIC CO. 1835 SUNRAY MN001835 SYLVANIA 1835.	0	EA	60	0	$ -	$ 0.79	$ 47.29	$ -	$ -	$ -	$ -	Englewood
LTGLP131	LAMP, QUARTZ, 500 WATT, 130 V, WORK CTR 1-6.	GENERAL ELECTRIC CO. 3C524006 GENERAL ELECTRIC CO. Q500T3/CL PHILLIPS LIGHTING 500T3/CL SYLVANIA 500T3QCL 130 V SYLVANIA 58902	0	EA	2	0	$ -	$ 1.69	$ 3.39	$ -	$ -	$ -	$ -	Englewood
LTGLP148	LAMP, FLUORESCENT, 34 OR 40 WATT, BI-PIN BASE, COOL WHITE RAPID START, T-12, WORK CTR 1-6.	GENERAL ELECTRIC CO. F34CW/RS/WM SYLVANIA F40CWX	0	EA	60	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LTGLP152	LAMP, METAL HALIDE, 400 WATT, MOGUL BASE, MDR400/U, E37 FOR PRISM LIGHTS, WORK CTR 1-6.	GENERAL ELECTRIC CO. MVR400/U HOLOPHANE PRSL40 SYLVANIA M400/U/ED37	0	EA	25	0	$ -	$ 12.24	$ 305.88	$ -	$ -	$ -	$ -	Englewood
LTGLP155	LAMP, FLUORESCENT, BI-PIN, COOL WHITE, RAPID START, T-12, WORK CTR 1-6.	GENERAL ELECTRIC CO. F30T12/CW/RS SYLVANIA F30T12/CW/RS	0	EA	32	0	$ -	$ 2.59	$ 82.82	$ -	$ -	$ -	$ -	Englewood
LTGLP158	LAMP, FLOODLIGHT, 75-80 WATT, PAR 38, MEDIUM SKIRTED BASE, CLEAR, WORK CTR 1-6	GENERAL ELECTRIC 75PAR/H/NFL25 SYLVANIA 80PAR38/HAL/S/NFL25-120V	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LTGLP220	LAMP, METAL HALIDE, 100 WATT, BD17, MEDIUM BASE, CLEAR FINISH, 120 VOLT, FOR ENCLOSED FIXTURES ONLY, ANSI REF. M90. CT LIGHTING. WORK CTR 1-6.	GENERAL ELECTRIC 1E674(GRAINGER P/N) GENERAL ELECTRIC MVR100/U/MED SYLVANIA M100/U/MED	0	EA	1	0	$ -	$ 26.73	$ 26.73	$ -	$ -	$ -	$ -	Englewood
LTGLP228	LAMP, METAL HALIDE, MOGUL BASE, 175 WATT, 120 VOLT, WORK CTR 1-6.	GENERAL ELECTRIC CO. MVR175/C/U PHILLIPS LIGHTING MH175/C/U SYLVANIA M175/C/U	0	EA	136	0	$ -	$ 11.09	$ 1,508.80	$ -	$ -	$ -	$ -	Englewood
LTGLP232	LAMP, METAL HALIDE, 250 WATT USED ON NS BATTERY RM, F.O. SERV P RM AND SS BATTERY RM	GENERAL ELECTRIC CO. MVR 250/4 SYLVANIA M250U	0	EA	5	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LTGLP269	LAMP, LED, GREEN, REF. SQUARE D BASE 9001 SERIES 120VAC-DC. USED ON N01/N02 MCC. WORK CTR 1-6.	LEDTRONICS 6508805206 SQUARE D 6508805206	0	EA	33	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LTGLP270	LAMP, LED, RED, REF. SQUARE D BASE 9001 SERIES 120VAC-DC. USED ON N01/N02 MCC. WORK CTR 1-6.	LED TRONICS 6508805204 SQUARE D 6508805204	0	EA	32	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LTGLS093	LENS, RED, FRESNEL, FOR G.E. TYPE ET-16 INDICATING LAMP,	DATA DISPLAY PRODUCTS BB4-CR GENERAL ELECTRIC CO. 286A5443PR4	0	EA	6	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LTGPC021	PHOTOCELL, PUSHBUTTON TYPE, 120 V, WORK CTR 1-6.	AREA LIGHTING CO. INC. AA105 HUBBELL PBT-1 INNER-TITE K4021C TORK TORK 3000	0	EA	2	0	$ -	$ 50.29	$ 100.59	$ -	$ -	$ -	$ -	Englewood
LTGPC023	PHOTOCELL, 1800 WATT, 120 V, 1/2" -14 MPT, LUMATROL, W/ADJUSTABLE SHIELD, WORK CTR 1-6.	AREA LIGHTING CO. INC. AT15 DAYTON MODEL 2E331 INTERMATIC CORP. K4121C PRECISION BRAND T-15 TORK 2129A	0	EA	4	0	$ -	$ 26.73	$ 106.91	$ -	$ -	$ -	$ -	Englewood
LTGSK023	SOCKET, LAMP, PIG TAIL, 250 V, 600 WATT, RUBBER SHELL W/MED BASE ALUM SCREW SHELL, 6" #16 AWG LEAD, AKA	LEVITON 124D	0	EA	4	0	$ -	$ 4.35	$ 17.41	$ -	$ -	$ -	$ -	Englewood
LUBGR151	GREASE, SILICONE LUBRICANT, DOW CORNING 111 COMPOUND, 5.3 OZ. TUBE. "O" RING COMPOUND, SF6, FOR GASKETS & ADJACENT EXPOSED METAL SURFACES.	DOW CORNING 621A00301	0	EA	24	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
LUBGR200	LUBRICANT, AMBER PETROLEUM JELLY, 4 OZ.	ABB POWER T & D 560A03007	ABB POWER T & D 560A03007	EA	8	42	$ 336.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
LUGDB001	LUG, DIRECT BURY, YELLOW, 50 VOLTS, FOR USE WITH UTILITY TRACER LINERS, NO NEED TO CUT MAIN LINE. FOR USE BY LOCATORS.	DRYCONN 90120	0	EA	5	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
METAD003	ADAPTER, 8-JAW, FOR SOCKET FORM 5S, 20 AMPS, DEAD FRONT WITH REMOVABLE PLATE FOR COMMUNICATION ACCESS. (REQUIRES JEA SPECIFICATION)	BROOKS EKSTROM PTR-K MARWELL 2200K-SP-2885-4-8	0	EA	4	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
METCT007	**TESTING REQUIRED** TRANSFORMER, CURRENT, 25:5 AMPS, 5 KV, 1.0 RF, 0.5 BURDEN (REQUIRES JEA SPECIFICATION)	ABB POWER T & D 7524A10G05 GENERAL ELECTRIC CO. 753X051005	ABB POWER T & D 7524A10G05	EA	1	1125.11	$ 1,125.11	$ -	$ -	$ -	$ -	$ 755.57	$ 755.57	Irby
METCT008	**TESTING REQUIRED** TRANSFORMER, CURRENT, 50:5 AMPS, 5000 KV 1.0 RF, 0.5 BURDEN (REQUIRES JEA	ABB POWER T & D 7524A10G08 GENERAL ELECTRIC CO. 753X051008	ABB POWER T & D 7524A10G08	EA	1	1152.256	$ 1,152.26	$ -	$ -	$ -	$ -	$ 755.57	$ 755.57	Irby
METCT009	**TESTING REQUIRED** TRANSFORMER, CURRENT, 100:5 AMPS, 5000KV 1.0 RF, 0.5 BURDEN (REQUIRES JEA SPECIFICATION)	ABB POWER T & D 7524A10G10 GENERAL ELECTRIC CO. 753X051010	ABB POWER T & D 7524A10G10	EA	1	1225.98	$ 1,225.98	$ -	$ -	$ -	$ -	$ 755.57	$ 755.57	Irby
METCT010	**TESTING REQUIRED** TRANSFORMER, CURRENT, 200:5 AMPS, 5000 KV, RF 2.0 OR GREATER, 0.5 BURDEN (REQUIRES JEA SPECIFICATION)	ABB POWER T & D 7524A10G22 GENERAL ELECTRIC CO. 753X051012	ABB POWER T & D 7524A10G22	EA	1	1251.81	$ 1,251.81	$ -	$ -	$ -	$ -	$ 755.57	$ 755.57	Irby
METCT011	**TESTING REQUIRED** TRANSFORMER, CURRENT, 400:5 AMPS, 5 KV 2.5 RF, 0.5 BURDEN (REQUIRES JEA SPECIFICATION)	ABB POWER T & D 7524A10G23 GENERAL ELECTRIC CO. 753X051014 RITZ INSTRUMENT TRANSFORMERS I 111553003 149013	ABB POWER T & D 7524A10G23	EA	1	1264.858	$ 1,264.86	$ -	$ -	$ -	$ -	$ 755.57	$ 755.57	Irby
METCT013	**TESTING REQUIRED** TRANSFORMER, CURRENT, 200:5 AMPS, 25 KV, 3.0 RF, 0.5 BURDEN (REQUIRES JEA SPECIFICATION) **ORDER ONLY ON REQUEST**	ABB POWER T & D 923A185G12	ABB POWER T & D 923A185G12	EA	1	1563.146	$ 1,563.15	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
METCT014	TRANSFORMER, CURRENT, 400:5 AMPS, 25 KV, MIN 2.5 RF, 0.5 BURDEN (REQUIRES JEA SPECIFICATION) **ORDER ONLY ON REQUEST****TESTING REQUIRED**	ABB E923A185G14	ABB E923A185G14	EA	1	1910.325	$ 1,910.33	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
METCT015	TRANSFORMER, CURRENT, 600:5 AMPS, 25 KV, MIN 2.0 RF, 0.5 BURDEN (REQUIRES JEA SPECIFICATION) **ORDER ONLY ON REQUEST****TESTING REQUIRED**	ABB E923A185G16	ABB E923A185G16	EA	9	1732.7625	$ 15,594.86	$ -	$ -	$ -	$ -	$ -	$ -	Anixter

METCT022	**TESTING REQUIRED** TRANSFORMER, CURRENT, 5:5 AMP, 25 KV, 3.0 RF, 0.5 BURDEN MOLDED CONSTRUCTION FOR OUTDOOR USE WITH A STANDARD MOUNTING BASE. (REQUIRES JEA SPECIFICATION)	ABB POWER T & D E-923A185G01 GENERAL ELECTRIC CO. 756X050001 RITZ INSTRUMENT TRANSFORMERS I 112026103 149077	ABB POWER T & D E-923A185G01	EA	1	2038.92	$ 2,038.92	$ -	$ -	$ -	$ -	$ 1,660.80	$ 1,660.80	Irby
METCT023	**TEST REQD** TRANSFORMER CURRENT 25:5 AMPS 25 KV 3.0 RF 0.5 BURDEN MOLDED CONSTRUCTION FOR OUTDOOR USE WITH STD MOUNTING BASE AND SEC TERMINAL BOX AND COVER W/DRILLED HEX HEAD RETAINING BOLT #1024. (REQUIRES JEA SPEC) ORDER	ABB POWER T & D E-923A185G05 GENERAL ELECTRIC CO. 756X050005 RITZ INSTRUMENT TRANSFORMERS I 112026103 149081	ABB POWER T & D E-923A185G05	EA	9	2226.536	$ 20,038.82	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
METCT024	**TEST REQD** TRANSFORMER CURRENT 75:5 AMPS 25 KV 3.0 RF 0.5 BURDEN ACCURACY CLASS WITH A MINIMUM BURDEN OF 0.5. MOLDED CONSTRUCTION FOR OUTDOOR USE W/STANDARD MOUNTING BASE AND SECONDARY TERMINAL BOX. ..... (REQUIRES JEA	ABB POWER T & D 923A185G09 GENERAL ELECTRIC CO. 756X050007 RITZ INSTRUMENT TRANSFORMERS I 112026103 149085	ABB POWER T & D 923A185G09	EA	12	1848.6	$ 22,183.20	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
METHU002	HUB, 1" INTERCHANGEABLE	ANCHOR ELECTRIC CO. H1-ANC DURHAM CO., THE ARP00003 LANDIS & GYR 38596-2 MILBANK A75114 UNIVERSAL METROLOGY PRODUCTS, SD 100	MILBANK A75114	EA	30	7.042	$ 211.26	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
METLK004	LOCK, BARREL, STAINLESS STEEL, STANDARD (LONG) LENGTH, SUPER MARK IV WITH INTERNAL WEATHER SEAL	INNER-TITE E-S38001	INNER-TITE E-S38001	EA	440	7.02	$ 3,088.80	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
METRI001	RING, SEALING FOR METER SOCKET, SLIP LOCK TYPE, STAINLESS STEEL ONLY.	BROOKS EKSTROM 10-9001 METERING EQUIPMENT ACCESORIES CR-81711-SS	0	EA	800	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
METSE016	SEAL, METER, SPRING-LOCK DEMAND RESET, COLOR BLACK, MONTH STAMP "AUG", STAMPED JEA LOGO, 7	AMERICAN CASTING 7001-BLK-JEA-AUG	0	EA	1000	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
METSE017	SEAL, METER, SPRING-LOCK DEMAND RESET, COLOR PURPLE, MONTH STAMP "SEP", STAMPED JEA LOGO, 7 DIGIT SEAL NUMBER (REQUIRES JEA SPECIFICATION)	AMERICAN CASTING 7001-PUR-JEA-SEP	0	EA	1000	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
METSE019	SEAL, METER, SPRING-LOCK DEMAND RESET, COLOR YELLOW, MONTH STAMP "NOV", STAMPED JEA LOGO, 7 DIGIT SEAL NUMBER (REQUIRES JEA SPECIFICATION)	AMERICAN CASTING 7001-YLW-JEA-NOV	0	EA	1000	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
METSE031	SEAL, METER, KEYLESS PADLOCK, ZINC ALLOY, 3/16" DIAMETER HASP	BROOKS UTILITY PRODUCTS 2-1046	0	EA	1570	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
METSO012	SOCKET, METER, 600 AMP RATED, 480 AMPS CONTINUOUS, 3 PHASE FOR USE WITH LANDIS & GYR K-BASE METERS (REQUIRES JEA SPECIFICATION)	LANDIS & GYR 9817-9527	0	EA	3	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
METVT003	**TESTING REQUIRED** TRANSFORMER, VOLTAGE, 120/1 RATIO, 35000 VOLTS, 60 HZ, 150 KV BIL, SINGLE BUSHING	ABB POWER T & D E-7526A63G02 GENERAL ELECTRIC CO. 766X034002	0	EA	12	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
MOLAS001	MOLIMITER, 500 MCM FOR RUBBER INSULATED CABLE	BURNDY CORP. YFMR34 RICHARDS MFG. CO. RMLA500	RICHARDS MFG. CO. RMLA500	EA	1	64.19	$ 64.19	$ 125.88	$ 125.88	$ -	$ -	$ -	$ -	Anixter
MOLCO003	MOLE CONNECTOR, 12 OUTLET 2500 AMPERE CAPACITY	BURNDY CORP. ZM12-25 DOSSERT MC-250-12 MAC ELECTRICAL CONNECTORS ME250-12	DOSSERT MC-250-12	EA	1	208.572	$ 208.57	$ 2,222.75	$ 2,222.75	$ -	$ -	$ -	$ -	Anixter
MOLCO004	MOLE CONNECTOR, 14 OUTLET 2500 AMPERE CAPACITY	BURNDY CORP. ZM14-25 DOSSERT MC-250-14 MAC ELECTRICAL CONNECTORS ME250-14	DOSSERT MC-250-14	EA	1	237.118	$ 237.12	$ 886.88	$ 886.88	$ -	$ -	$ -	$ -	Anixter
MOLCO005	MOLE CONNECTOR, 20 OUTLET 2500 AMPERE CAPACITY**** ORDER IN INCREMENTS OF 3 EACH ****	BURNDY CORP. ZM20-25 DOSSERT MC-250-20 MAC ELECTRICAL CONNECTORS ME250-20	DOSSERT MC-250-20	EA	3	255.108	$ 765.32	$ 1,482.06	$ 4,446.19	$ -	$ -	$ -	$ -	Anixter
MOLCO006	MOLE CONNECTOR, 24 OUTLET 2500 AMPERE CAPACITY	BURNDY CORP. ZM24-25	0	EA	1	0	$ -	$ 1,122.17	$ 1,122.17	$ -	$ -	$ -	$ -	Englewood
MOLCS001	MOLE COLD SHRINK INSULATOR, 2/O 2500KCMIL TUBE LENGTH 9IN, SEALS/COVERS SHORT CURRENT LIMITING FUSE/BOOT FOR MOLE, COLD SHRINK RUBBER QUICK INSULATER WITH BUILT-IN ENVIRONMENTALLY SEALING RUBBER MASTIC	PARKER CYLINDERS QI-13/70-23S-JEA	0	KT	80	0	$ -	$ -	$ -	$ -	$ -	$ 26.73	$ 2,138.40	Irby
MOLCS002	MOLE COLD SHRINK INSULATOR, 2/O 2500KCMIL TUBE LENGTH 16IN, SEALS/COVERS LONG CURRENT LIMITING FUSE/BOOT FOR MOLE AND USED TO RE-JACKET SPLST007, COLD SHRINK RUBBER QUICK INSULATOR WITH BUILT-IN ENVIRONMENTALLY SEALING RUBBER	PARKER CYLINDERS QI-17/70-457	0	KT	20	0	$ -	$ -	$ -	$ -	$ -	$ 41.04	$ 820.80	Irby
MOLSC002	MOLE STUD, VERTICAL 5 OUTLET, 2000 AMP CAPACITY 1.5" STUD DIAMETER	BURNDY CORP. ZMLDN520	0	EA	1	0	$ -	$ 973.74	$ 973.74	$ -	$ -	$ -	$ -	Englewood
MTRPU001	MOTOR, PUMP, 208/230 VAC, PHASE 1 FOR BBC SF6 GAS CIRCUIT BRKR TYPE 145PA40, S/N C00335-101, I.B. 6.4.1.7-1C PG.?? FIG.17, REF.16063 ALSO FITS 242PA40	ABB GPHL730093P25	ABB GPHL730093P25	EA	1	8883.75	$ 8,883.75	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
NUTKD001	NUT, KINDORF, GALVANIZED PLATED STEEL, SIZE 3/8" HEX	KINDORF B-911-3/8	0	EA	10	0	$ -	$ 3.48	$ 34.80	$ -	$ -	$ -	$ -	Englewood
NUTTE001	NUT, THIMBLE EYE 5/8" HOT DIPPED GALVANIZED	ALUMA-FORM AF6510 BARRON BETHEA EN-4A CHANCE 6510 CONTINENTAL ELECTRIC TN-5 DIXIE ELECTRIC D-6510 FLORIDA WIRE AND CABLE FW6510 JOSLYN HI-VOLTAGE CORP. J6510 MC GRAW EDISON DG1E1 POWERLINE HARDWARE CO. P6510 UTILITIES SERVICE CS80	ALUMA-FORM AF6510	EA	50	3.88	$ 194.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
OCBITD05	GASKET, BUSHING FOR I-T-E OIL CIRCUIT BREAKER TYPE 69KSBS000-20B, S/N 41-20794-101, I.B. 051L015-20, PG.13. FIG.2. REF.97	ABB 455A00302	ABB 455A00302	EA	3	197.5	$ 592.50	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
OCBWHA02	FITTING, DRESSER FOR AIR RESERVOIR FOR WESTINGHOUSE OIL CIRCUIT BREAKER TYPE 345G500, MECHANISM TYPE AA-7. S/N 1-37Y2124. I.B. 33-125-C2	ABB POWER T & D 1575290 ABB POWER T & D 18D8257H14	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
PININ003	PIN, INSULATOR, 35 KV, SHORT SHANK SHANK-3/4" X 2-3/8". HEIGHT 7". (STD. PKG. 25 EACH)	MACLEAN POWER SYSTEMS J224Z	0	EA	25	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
PLGSO005	BUSHING, 600 DEAD BREAK PARKING BUSHING	ELASTIMOLD K650SOP RICHARDS MFG. CO. P625IPB	ELASTIMOLD K650SOP	EA	1	105	$ 105.00	$ 108.78	$ 108.78	$ -	$ -	$ -	$ -	Anixter
PLGVT002	PLUG, FEMALE (WITHOUT THREADED STUD) INSULATED, FOR USE WITH 600 AMP 200 BODY ELBOWS IN PAD	COOPER POWER 2637193B01M COOPER POWER SYSTEMS 2637193B01M	ELASTIMOLD K650B1P	EA	2	57.4	$ 114.80	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
POLAL001	POLE, ALUMINUM 40' SINGLE BRACKET	COOPER POWER SYSTEMS JEA PS28 VALMONT INDUSTRIES. INC. 400060108T4M	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
POLAL010	POLE, ROUND ALUMINUM, 35' IN LENGTH, BASE SLOTTED FOR 4-1" ANCHOR BOLTS ON 11.5" BOLT CIRCLE, BLACK FINISH, 8" O.D. BASE X 4.5 O.D. TIP *FOR USE W/SHOEBOX LUMINAIRE*	GENERAL STRUCTURES, INC. CPA-2-802S-35-STD-PWDR CT-PK11 HAPCO 34817-P1	HAPCO 34817-P1	EA	3	1680.75	$ 5,042.25	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
POLAL011	ON HOLD - POLE, ALUMINUM 27' MULTI-CHAMBERED, INCLUDES UNIVERSAL BOLT CIRCLE ADAPTOR (FOR SMALL CELL APPLICATION ONLY)	HAPCO 102403P642	HAPCO 102403P642	EA	3	8096.4	$ 24,289.20	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
POLAL012	ON HOLD - POLE, ALUMINUM 37' MULTI-CHAMBERED (FOR SMALL CELL APPLICATION ONLY)	HAPCO 102404-P642	HAPCO 102404-P642	EA	7	8858.2	$ 62,007.40	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
PRORP006	STANDARDS HOLD - PLATE, JUMPER, 508B559G01 (USED WITH CMD & CM-22)	CUTLER-HAMMER 508B559G01 RICHARDS MFG. CO. 521123	RICHARDS MFG. CO. 521123	EA	1	65.618	$ 65.62	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
RACUC001	RACK, UNDERGROUND CABLE, THREE 'L" SHAPED NOTCHES. LENGTH 32", HOT DIP GALVANIZED.	IRVINGTON MOORE SP1223A UTILITY METALS CR3-32G	0	EA	5	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
RADCO001	RADIO, MDS SD9 ETHERNET AND SERIAL 900 MHZ MANAGED RADIO, 928-960 MHZ, ONE 10/1000 BASE T IP/ETHERNET AND TWO SERIAL PORTS, COM2 PORT PROGRAMMABLE RS232/485.	GENERAL ELECTRIC SD09-MDCESNNSNN GENERAL ELECTRIC SD9-C-ES	0	EA	10	0	$ -	$ -	$ -	$ -	$ -	$ 1,628.00	$ 16,280.00	Irby
RAICA001	RAIL, CHANNEL ACCESSORY, TWO-HOLE ANGLE CONNECTOR	B-LINE SYSTEMS INC. B-230-ZN KINDORF B-915	0	EA	44	0	$ -	$ 8.63	$ 379.72	$ -	$ -	$ -	$ -	Englewood
RECFT001	RECEPTACLE, FEED-THROUGH INSERT, ROTATABLE BUSHING FOR 200 AMP PAD MOUNTED APPARATUS, 25KV CLASS. 125KV BIL	COOPER POWER 2637881C01M COOPER POWER SYSTEMS 2637881C01M COOPER POWER SYSTEMS LFI225	COOPER POWER SYSTEMS LFI225	EA	2	279.902	$ 559.80	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
RECFT002	RECEPTACLE, FEED-THROUGH, WITHOUT BUSHING INSERTS, ROTATABLE BUSHING FOR 200 AMP PAD MOUNTED APPARATUS. 25KV CLASS. 125KV BIL	ELASTIMOLD K1601WFT	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
RECPA002	PLUG, 200 AMP LOADBREAK, DEADEND CAP FOR PAD MOUNTED APPARATUS BUSHING, 25KV CLASS, 125KV BIL	COOPER POWER SYSTEMS LPC225 ELASTIMOLD 273DRG-3	COOPER POWER SYSTEMS LPC225	EA	90	47.1882	$ 4,246.94	$ 46.67	$ 4,200.35	$ -	$ -	$ -	$ -	Englewood
REGVO002	REGULATOR, VOLTAGE, 19.92KV, 150 KV BIL, 418A/833 KVA. PER JEA SPECIFICATION	COOPER POWER SYSTEMS SEND SPEC W/QUOTE SIEMENS SEND SPEC W/QUOTE	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid

RELAU035	RELAY, AUXILIARY, TYPE HGA, 125V, SURFACE MOUNT, INST. BOOK IB-GEH-1793, PB-GEF-2623, FOR GENERAL ELECTRIC OCB MODEL FK-439-69-3500	GENERAL ELECTRIC HGA11J52	0	EA	4	0	$ -	$ -	$ -	$ -	$ -	$ 386.95	$ 1,547.80	Irby
RELBG001	RELAY, BANK GUARD, TYPE LUC, AUTOMATIC CONTROL EQUIPMENT, 125VDC, PROTECTION OF UNGROUNDED WYE CONNECTED SHUNT CAP BANK	S AND C ELECTRIC CO. 38220-BH	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ 3,774.73	$ 7,549.46	Irby
RELBG003	RELAY, AUTOMATIC CONTROL DEVICE, 125 VDC S&C ELECTRIC TYPE "UP", WITH ALARM AND UNBALANCE COMPENSATION MODULE W BEZEL KIT	S AND C ELECTRIC CO. 238062-B	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ 9,670.33	$ 19,340.66	Irby
RELIC045	RELAY, CONTROL, 120 VAC, 3PDT POTTER & BRUMFIELD #KRPA14AG-120 FOR RBC 555 GAS CIRCUIT BREAKER	NEWARK ELECTRONICS 52F3740 POTTER AND BRUMFIELD KRPA-14AG-120	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
RELSP004	RELAY, SUDDEN PRESSURE KIT, 3 PRONG, INCLUDING FLANGE GASKET & CABLE. 125 VDC	ABB POWER T & D 8524A42G02 WESTINGHOUSE 4432A95G02	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
RODAR005	ROD, ARMOR, 556 ACSR - 636 AAC, 80", (STD. PKG. 12 EACH)	CHANCE 80AAR-059 DULMISON AAR 2305 HELICAL AAR-539 PREFORMED LINE PRODUCTS CO. AR-0135	HELICAL AAR-539	EA	12	50.05	$ 600.60	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
RODAR007	ROD, ARMOR, 954 ACSR, 100", (STD. PKG. 6 EACH)	CHANCE 100AAR-070 DULMISON AAR2959	HELICAL AAR-547	EA	6	95.55	$ 573.30	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
RODAR008	ROD, ARMOR, 1590 ACSR, 100", (STD. PKG. 3 EACH)	CHANCE 100AAR-086 DULMISON AAR 3835 HELICAL AAR-553 PREFORMED LINE PRODUCTS CO. AR-0164	HELICAL AAR-553	EA	12	182.385	$ 2,188.62	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
SAFGD001	GLOVE DUST, SALISBURY 5.0 OZ BOTTLE GLOVE DUST IA A POWDER PROVIDED FOR LINEMANS GLOVES MUST E	SALISBURY TEN-FOUR GLOVE DUST	0	EA	60	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
SAFGL063	GLOVE, RUBBER, CURVED HAND, FOR LOW VOLTAGE (5000 V), YELLOW, C.0, 14" OVERALL LENGTH, SIZE 11, *** 1 EACH = 1 PAIR *** (ELECTRICAL TEST DATE MUST PRINTED ON GLOVE).	BASHLIN'S LINEMENS EQUIPMENT 14-OY SIZE 11 CHANCE PSC014Y11 SALISBURY E014Y-11	0	EA	24	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
SAFGL065	GLOVE, LINEMAN PROTECTOR, SIZE 9 -9 1/2- FOR 1KV LOW VOLTAGE RUBBER GLOVE. SHEEPSKIN LEATHER GRAIN FINISH WITH PULL STRAP. GLOVE SHALL COMPLY WITH ASTM F696. *** 1 EACH = 1 PAIR ***	KUNZ 999-S SIZE-9 SALISBURY ILPG-10A SIZE 9-91/2	0	PR	48	0	$ -	$ 20.91	$ 1,003.54	$ -	$ -	$ -	$ -	Englewood
SAFGL081	GLOVES, LOW VOLTAGE, SIZE 9, CLASS 00, ELECTRICAL INSULATING RUBBER	CHANCE PSC0011R9 SALISBURY E0011R/9	0	PR	6	0	$ -	$ 52.66	$ 315.93	$ -	$ -	$ -	$ -	Englewood
SAFGL083	GLOVES, LOW VOLTAGE, SIZE 10, CLASS 00, ELECTRICAL INSULATING RUBBER	CHANCE PSC0011R9 SALISBURY E0011R/10	0	PR	15	0	$ -	$ 52.66	$ 789.83	$ -	$ -	$ -	$ -	Englewood
SAFGL084	GLOVES, LOW VOLTAGE, SIZE 10H, CLASS 00, ELECTRICAL INSULATING RUBBER	CHANCE PSC0011R10H SALISBURY E0011R/10H	0	PR	14	0	$ -	$ 52.66	$ 737.17	$ -	$ -	$ -	$ -	Englewood
SCWHQ371	SCREW, 5/16"-18 X 3", HEX HEAD CAP, NC SILICON BRONZE HS PER ASTM-B99 ***PACKAGE OF 100 EACH***NO SUBSTITUTE**	BURNDY CORP. 31X300HEBBOX	0	EA	100	0	$ -	$ 2.75	$ 275.29	$ -	$ -	$ -	$ -	Englewood
SCWHQ412	SCREW, 3/8"-16 X 1", HEX HEAD CAP, NC SILICON BRONZE HS PER ASTM-B99, (USED ON SUBSTATION CONNECTORS), ***PACKAGE OF 100 EACH***NO SUBSTITUTE**	BURNDY CORP. 38X100HEBBOX	0	EA	400	0	$ -	$ 2.11	$ 842.35	$ -	$ -	$ -	$ -	Englewood
SCWHQ414	SCREW, 3/8"-16 X 1 1/4", HEX HEAD CAP, NC, SILICON BRONZE HS PER ASTM-B99, (USED ON SUBSTATION CONNECTORS), ***PACKAGE OF 100 EACH***NO SUBSTITUTE**	BURNDY CORP. 38X125HEBBOX	0	EA	100	0	$ -	$ 2.33	$ 232.94	$ -	$ -	$ -	$ -	Englewood
SCWHQ415	SCREW, 3/8"-16 X 1 1/2", HEX HEAD CAP, NC, SILICON BRONZE HS PER ASTM-B99 ***PACKAGE OF 100 EACH***NO SUBSTITUTE**	BURNDY CORP. 38X150HEBBOX	0	EA	200	0	$ -	$ 2.41	$ 482.35	$ -	$ -	$ -	$ -	Englewood
SCWHQ417	SCREW, 3/8"-16 X 2", HEX HEAD CAP, NC SILICON BRONZE HS PER ASTM-B99 ***PACKAGE OF 100 EACH***NO SUBSTITUTE**	BURNDY CORP. 38X200HEBBOX	0	EA	100	0	$ -	$ 3.01	$ 301.18	$ -	$ -	$ -	$ -	Englewood
SIGCA001	SIGN, "CAUTION - TWO DIFFERENT SECONDARY BUS ON POLE", SIZE 5" X 8", BLACK ON YELLOW GRAPHICS, LEXAN	UTICOM SYSTEMS INC. U8050C-1051	0	EA	17	32.424	$ 551.21	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
SIGDA009	SIGN, "DANGER UG FEEDS OH", 6" X 8"	UTICOM SYSTEMS INC. U6080D-JEA	UTICOM SYSTEMS INC. U6080D-JEA	EA	30	15.624	$ 468.72	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
SIGDA011	SIGN, DANGER/PELIGRO FOR INSIDE SUBSTATION ENTRY, SIZE 14" X 20", MATERIAL U2200R, REFLECTIVE, 1/8" THICK. MEETS NESC CODE & ANSI STATNDARDS Z535-2006.2-2007.3-2002.	UTICOM SYSTEMS INC. U2014DP-JEA-FL	UTICOM SYSTEMS INC. U2014DP-JEA-FL	EA	50	46.089	$ 2,304.45	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
SIGPO014	POST, FIBERGLASS COLOR GREEN, 6 FT LONG, DIMENSIONS 2" X 1" X 1" X 6. LIGHTWEIGHT FOR SUBSTATION DANGER SIGN. PURCHASED FROM	UTICOM SYSTEMS INC. UTL2-72INCH-GREEN	UTICOM SYSTEMS INC. UTL2-72INCH-GREEN	EA	4	98.56	$ 394.24	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
SLEAJ003	SLEEVE, 556.5ACSR, 24/7, ALUMINUM JUMPER COMPRESSION SPLICE. NON-TENSION ONLY	BURNDY CORP. YNS39R HOMAC 879	0	EA	29	0	$ -	$ 141.01	$ 4,089.38	$ -	$ -	$ -	$ -	Englewood
SLEAL001	SLEEVE, BLUE TO BLUE NEUTRAL 6-6 ALUMINUM TRIPLEX NEUTRAL SPLICING	ANDERSON VANS6-6 BURNDY CORP. YSS6RG2 HOMAC SNG66 ITT BLACKBURN TR61 KEARNEY 30008 PENN-UNION PNK-44	PENN-UNION PNK-44	EA	1	3.094	$ 3.09	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
SLEFT008	SLEEVE, 636 37-STR AAC, FULL-TENSION ALUMINUM, COMPRESSION TYPE	ANDERSON FTR-636 BURNDY CORP. YDS361AT HOMAC 2186 KEARNEY HR636-37AL	0	EA	1	0	$ -	$ 163.35	$ 163.35	$ -	$ -	$ -	$ -	Englewood
SLEFT013	SLEEVE, 954.0 ACSR 54/7, FULL-TENSION ALUMINUM, COMPRESSION TYPE, NOTE THAT ALL ACSR SPLICES HAVE ALUMINUM AND STEEL SLEEVES.	ALCOA 8030.125-4014.422 BURNDY CORP. YTS48R48RS FARGO TJA-4121	ALCOA 8030.125-4014.422	EA	5	92.624	$ 463.12	$ 925.80	$ 4,629.02	$ -	$ -	$ -	$ -	Anixter
SLEMO001	SLEEVE, 5-1/4", MOLE OUTLET INSULATING,	BURNDY CORP. Z88C3429 DOSSERT MIS25-60-138 MULTI-AMP CORP. USS-500	DOSSERT MIS25-60-138	EA	76	17.6175	$ 1,338.93	$ 68.44	$ 5,201.08	$ -	$ -	$ -	$ -	Anixter
SLESE001	SLEEVE, ORANGE TO BLUE SERVICE 4-6, SERVICE ENTRANCE, COMPRESSION TYPE A =.213"-.258'. B =.170"-.204"	ANDERSON ACS-4-6 ANDERSON VAUS6-6 BURNDY CORP. YSU2W4W HOMAC UIB-46 ITT BLACKBURN CS67 KEARNEY 20692 PENN-UNION PSK-24	PENN-UNION PSK-24	EA	1	0.84	$ 0.84	$ 1.20	$ 1.20	$ -	$ -	$ -	$ -	Anixter
SPLKI008	SPLICE KIT, REPAIR, 69-KV, 1500MCM & 2000MCM. 5488A-1750-2000 QSIII COLD SHRINK SILICONE RUBBER SPLICE KIT.(69/72 KV) EACH KIT INCLUDES RE-JACKETING MATERIALS,SHIELDING COMPONENTS AND 1750-2000KCMIL SHEAR CONNECTOR.	PARKER CYLINDERS 5488A-1750-2000 QSIII	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ 3,272.15	$ 3,272.15	Irby
SPLRP003	SPLICE REPLACEMENT PART, MASTIC, 24"LENGTH BY 1"WIDTH, USED AS EXTRA MASTIC FOR SPLICE KITS, (STANDARD PACKAGING IS 25 EACH)	RAYCHEM S1189-3-600(825)	0	BX	25	0	$ -	$ 6.25	$ 156.18	$ -	$ -	$ -	$ -	Englewood
SPLRP004	SPLICE, WYE, REPLACEMENT PART, ADAPTER RETAINING RING USED WITH THE 1/0 FLAT STRAP CABLE	RICHARDS MFG. CO. P6JR-9	RICHARDS MFG. CO. P6JR-9	EA	1	17.5	$ 17.50	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
SPLRP005	SPLICE, WYE, REPLACEMENT PART, ADAPTER RETAINING RING USED WITH THE 500 FLAT STRAP CABLE	RICHARDS MFG. CO. P6JR-17	RICHARDS MFG. CO. P6JR-17	EA	1	17.5	$ 17.50	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
SPLST008	SPLICE, 350-350 AL-28, STRAIGHT SHIELDED AND SUBMERSIBLE, 25-KV CLASS	COOPER POWER 260490SB05 ELASTIMOLD 25PCJ1L1300 ITT BLACKBURN S65CJAR MMM/3M 5423-CI-350	ELASTIMOLD 25PCJ1L1300	EA	1	75.6	$ 75.60	$ 67.06	$ 67.06	$ -	$ -	$ -	$ -	Englewood
SPLTR101	SPLICE, TRANSITION, 15KV, 1/0 PILC TO 1/0 POLY, SINGLE CONDUCTOR	RAYCHEM SPLTR101-KIT	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
SPLWY005	CAP, FOR ELASTIMOLD WYE SPLICE, 25-KV	ELASTIMOLD K655YDR RICHARDS MFG. CO. P625JIC	ELASTIMOLD K655YDR	#N/A	1	259	$ 259.00	$ 262.98	$ 262.98	$ -	$ -	$ -	$ -	Anixter
SPLWY010	SPLICE, WYE, 600 AMP 4-WAY INSULATED BUSS BAR WITH TEST POINT 15KV (750. 750. 1/0. 1/0).	RICHARDS MFG. CO. P625JHA32H92M23-JEA	RICHARDS MFG. CO. P625JHA32H92M23-JEA	EA	1	1427.193	$ 1,427.19	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
STLLS004	SHIELD, WHITE, HOUSE-SIDE FOR AEL POST TOP LUMINAIRE STLLE004	AMERICAN ELECTRIC LIGHTING RK247-AY-LENS-WHITE	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
STLLS005	SHIELD, BLACK, HOUSE-SIDE FOR AEL POST TOP LUMINAIRE STLLE004	AMERICAN ELECTRIC LIGHTING RK247-AY-LENS-BLACK	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid

STPST002	STRAP, STEEL CONDUIT, SIZE-3/4", HOLES-1	APPLETON ELECTRIC CO. CL-75 BRISON HW-7 HOLUB IND. 16-922 RACO INC. 1333 STEEL CITY HS-102	APPLETON ELECTRIC CO. CL-75	EA	2	0.308	$ 0.62	$ 0.38	$ 0.76	$ -	$ -	$ -	$ -	Anixter
STPST004	STRAP, STEEL CONDUIT, SIZE-1-1/2" HOLES-1	APPLETON ELECTRIC CO. CL-150 BRISON HW-15 HOLUB IND. 16-925 RACO INC. 1336 STEEL CITY HS-105	APPLETON ELECTRIC CO. CL-150	EA	1	0.868	$ 0.87	$ 1.17	$ 1.17	$ -	$ -	$ -	$ -	Anixter
STPST005	STRAP, STEEL CONDUIT, SIZE-2", HOLES-2, **INS ITEM**	APPLETON ELECTRIC CO. CF-200 BRIDGEPORT 1906 HOLUB IND. 16-416 RACO INC. 2238 STEEL CITY HS-906	APPLETON ELECTRIC CO. CF-200	EA	500	0.91	$ 455.00	$ 0.84	$ 420.00	$ -	$ -	$ -	$ -	Englewood
STPST007	STRAP, STEEL CONDUIT, SIZE-3", HOLES-2	APPLETON ELECTRIC CO. CF-300H BRIDGEPORT 1908 HOLUB IND. 16-418 RACO INC. 2240 STEEL CITY HS-908	APPLETON ELECTRIC CO. CF-300H	EA	100	1.932	$ 193.20	$ 1.93	$ 193.00	$ -	$ -	$ -	$ -	Englewood
STPST008	STRAP, STEEL CONDUIT, SIZE-4", HOLES-2,	APPLETON ELECTRIC CO. CF-400H BRIDGEPORT 1910 HOLUB IND. 16-420 RACO INC. 2242 STEEL CITY HS-910	APPLETON ELECTRIC CO. CF-400H	EA	100	2.842	$ 284.20	$ 2.60	$ 260.00	$ -	$ -	$ -	$ -	Englewood
SWEDM003	SWITCH, DENSITY MONITOR PRESSURE FOR BBC SF6 GAS CIRCUIT BREAKER TYPE 145PA40, S/N C00335-101, I.B. 6.4.1.7-1B PG.36, FIG.16, REF.13170 (SF-6 SW) SOLON MFG. CO. MODEL 6PS/27A ALSO FITS 242PA40	ABB POWER T & D 894B351-01 SOLON 6PS/27A	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
SWEPR026	SWITCH, TEMPERATURE COMPENSATED PRESSURE FOR SIEMENS BREAKER TYPE SP-72.5-40-1, S/N 43797-1, IB. PB-3468-05	SIEMENS-ALLIS 7331D28H19 SOLON 5PS/32 WESTINGHOUSE 7331D28H19	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
SWERP001	REPLACEMENT PARTS, SPECIAL APPLICATION S & C FAULT FITER, 25KV, 600AMP INTERRUPTING MODULE	S AND C ELECTRIC CO. 803600R2	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ 1,429.12	$ 1,429.12	Irby
SWERP002	REPLACEMENT PARTS, SPECIAL APPLICATION S & C FAULT FITER, 600AMP SOLID ELEMENT (BLADE) 25KV, FOR USE IN FAULT FITER FUSE HOLDER	S AND C ELECTRIC CO. 99113-Q100	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ 868.13	$ 868.13	Irby
TAPHS005	TAPE, BLACK RUBBER MASTIC, 2" WIDE X 36" LONG, **(STD PKG 125 ROLLS)**	PARKER CYLINDERS 2228-2"x36"	0	EA	125	0	$ -	$ -	$ -	$ -	$ -	$ 6.74	$ 842.50	Irby
TAPMU001	TAPE, MULE, 4,000 lb. TENSILE STRENGTH, 5/8" WIDTH, 1,000-FOOT REEL LENGTH, FOR PULLING INTO DUCT WITH FOOTAGE MARKERS. (STD. PKG. 1 EA.)	ARNCO INC. 20000153 CONDUX 08096401 NEPTCO RP4000P	ARNCO INC. 20000153	RL	31	135	$ 4,185.00	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
TBJEL181	FUSE, 10 AMP, 600 VOLT, 13/32 X 1 1/2, NON-TIME-DELAY, WITH REJECTION FEATURE, (BRANDY BRANCH & KGS C.T. MOD MS7001FA, REF. TURBINE S/N 297188 & GENERATOR S/N 337X072) AH-1	BUSSMANN KTK-R-10	0	EA	2	0	$ -	$ 10.43	$ 20.86	$ -	$ -	$ -	$ -	Englewood
TBJEL280	STARTER, SIZE 5, NON-REVERSING MAGNETIC, 270 AMP, 600 VOLT, OPEN TYPE (COOLING WATER PUMPS, BRANDY BRANCH & KGS C.T. MOD MS7001FA, REF. TURBINE S/N 297188 & GENERATOR S/N 337X072) AH-1	GENERAL ELECTRIC CR306G004	0	EA	1	0	$ -	$ 4,353.88	$ 4,353.88	$ -	$ -	$ -	$ -	Englewood
TBJIC157	CARD, PC CONTROL, WITH DIP SWITCH, (BRANDY BRANCH & KGS C.T. MOD MS7001FA, REF. TURBINE S/N 297188 & GENERATOR S/N 337X072) AH-1	CUTLER HAMMER - IEC 2147A58G03	0	EA	1	0	$ -	$ 3,512.06	$ 3,512.06	$ -	$ -	$ -	$ -	Englewood
TEECO001	TEE, COMPRESSION CONNECTOR - OPEN RUN TYPE 954-MCM RUN. 954-MCM TAP. ACSR	ALCOA TTOC13	ALCOA TTOC13	EA	1	79.254	$ 79.25	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
THEHS007	THERMOFIT, HEAT SHRINK PRODUCTS, TUBING 9.8" LENGTH, 2.68" X 0.87" SEALANT COATED	CANUSA-EMI CFW 2700-9.8-D INERTIA-REPL HWT6521-10A RAYCHEM WCSM-70/20-300-S	RAYCHEM WCSM-70/20-300-S	EA	20	14.042	$ 280.84	$ 10.96	$ 219.29	$ -	$ -	$ -	$ -	Englewood
TIECA005	TIE, CABLE, NYLON, 36" IN LENGTH MINIMUM, ONE PIECE, EXTRA HEAVY DUTY, 175 LBS. LOOP TENSILE STRENGTH, (50 EACH TIES P/BAG), TO BE USED WITH THE INSTALLATION OF TRACER WIRE ON PVC PIPE.	CATAMOUNT L-36-175-9-L	0	EA	400	0	$ -	$ 0.43	$ 172.00	$ -	$ -	$ -	$ -	Englewood
TLSTP001	TARP,TWISTARP, 7' X 7', 4000# LIFTING CAPACITY	TWISTARP OBD	0	EA	21	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
TOLBU004	BUSHING INSERT, FOR RIPLEY CABLE END STRIPPER #WS-5, FOR CABLE DIAMETER OF .911 IN. TO .935 IN.	RIPLEY CO. INC. 10310-.950	0	EA	15	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
TOLSO454	SOCKET, 14 MM, SHALLOW-WELL, 12 POINT, CHROME PLATED, 1/2" DRIVE PROTO P/N 5414M	PROTO PROFESSIONAL TOOLS 5414M SK HAND TOOL CORP. 40314	0	EA	1	0	$ -	$ 5.19	$ 5.19	$ -	$ -	$ -	$ -	Englewood
TOLSO461	SOCKET, 21 MM, SHALLOW-WELL, 12 POINT, CHROME PLATED, 1/2" DRIVE PROTO P/N 5421M ***SUB	PROTO PROFESSIONAL TOOLS 5421M SK HAND TOOL CORP. 40321	0	EA	1	0	$ -	$ 6.19	$ 6.19	$ -	$ -	$ -	$ -	Englewood
TOLSO463	SOCKET, 23 MM, SHALLOW-WELL, 12 POINT, CHROME PLATED, 1/2" DRIVE PROTO P/N 5423M	PROTO PROFESSIONAL TOOLS 5423M SK HAND TOOL CORP. 40323	0	EA	1	0	$ -	$ 6.82	$ 6.82	$ -	$ -	$ -	$ -	Englewood
TOLSO560	TOOL, SOCKET, SHALLOW WELL, 12 POINT, CHROME, 3/4" DRIVE, SIZE 1 3/8"	ARMSTRONG TOOLS 13-144 PROTO PROFESSIONAL TOOLS 5544 SNAP ON TOOLS LDH422A	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
TRMCA003	TERMINATOR, CABLE, 750 KCM CU -15 FLAT STRAP NEUTRAL, INCLUDES TREADED SPIKE CONNECTOR WITH ARERIAL LUG AND ALUMA-FORM MOUNTING BRACKET	ELASTIMOLD R2T15J2-N2-360-B3 MMM/3M 765S-S-HSG-4-S-L-MBAF	ELASTIMOLD R2T15J2-N2-360-B3	EA	5	179.8875	$ 899.44	$ -	$ -	$ -	$ -	$ 429.10	$ 2,145.50	Anixter
TUFSBCP8	CAP, VACUUM/GAS FILLING VALVE, BRASS, 1 1/4" 37 DEG. FLARE JIC, FOR BROWN BOVERI SF6 GAS CIRCUIT BREAKER TYPE 145PA40-20, S/N C00335-201, I.B. 6.4.1.7-1A, PG.16, FIG. 13, REF. 13074. (ALSO FITS 242PA40-20)	ABB POWER T & D 429A00306	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
VALCH158	VALVE, CHECK, COMPRESSOR IN-LINE, BRASS, FOR WESTINGHOUSE/SIEMENS BREAKER TYPE 72.5SP40, S/N 1-67Y1575	ABB POWER T & D 513A271H01 SIEMENS-ALLIS 513A271H01 WESTINGHOUSE 513A271H01	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
VALGF003	VALVE, VACUUM/GAS FILLING FOR BROWN BOVERI SF6 GAS CIRCUIT BREAKER TYPE 145PA40-20, S/N C00335-201, I.B. 6.4.1.7-1A, PAGE 16, FIG. 13, REF. 13070 (ALSO FITS 242PA40-20)***SUB MS101&260***	ABB POWER T & D 962A91601	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
VLPNR010	VALVE, CONTROL, AIR VALVE PILOT SECTION AND KIT, 125 VDC FOR I-T-E OIL CIRCUIT BREAKER TYPE 69KSB5000-20B, S/N 41-20794-101, I.B. 051L015-20, PG.8, FIG.1, REF.22***ITEM MUST BE SHIPPED AS A COMPLETE	ABB POWER T & D 962A10502 w/ 042L00411	0	EA	1	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
WIDCN031	CONNECTOR, COMPRESSION-LUG ONE HOLE, #4/0 CABLE, PURPLE. 3/8" BOLT. PACKAGE OF 10 EA	THOMAS AND BETTS 54112	0	EA	10	0	$ -	$ 10.80	$ 108.00	$ -	$ -	$ -	$ -	Englewood
WIDCN034	CONNECTOR, COMPRESSION-LUG ONE HOLE, #8 CABLE, RED, #10 BOLT, THOMAS & BETTS P/N 81F1859	THOMAS AND BETTS 54104 THOMAS AND BETTS 81F1859	0	EA	54	0	$ -	$ 2.87	$ 154.98	$ -	$ -	$ -	$ -	Englewood
WIDCN049	CONNECTOR, SPLIT BOLT, #1/0-6 WIRE, HPS PLATED, W/SPACER, ACSR RING EQUAL MAIN & TAP	BLACKBURN 20 HPS BURNDY CORP. KSU26	0	EA	2	0	$ -	$ 24.58	$ 49.15	$ -	$ -	$ -	$ -	Englewood
WIDCN066	CONNECTOR, COMPRESSION-LUG, 1-HOLE, #2 CABLE, 1/4" BOLT.	THOMAS AND BETTS 54107	0	EA	4	0	$ -	$ 5.13	$ 20.52	$ -	$ -	$ -	$ -	Englewood
WIDCN067	CONNECTOR, COMPRESSION-LUG, 1-HOLE, #2 CABLE, 5/16" BOLT, LONG BARREL	THOMAS AND BETTS 54942BE	0	EA	25	0	$ -	$ 6.23	$ 155.75	$ -	$ -	$ -	$ -	Englewood
WIDCN068	CONNECTOR, COMPRESSION-LUG, 1-HOLE, #1/0 CABLE, 5/16" BOLT	THOMAS AND BETTS 54153	0	EA	1	0	$ -	$ 8.90	$ 8.90	$ -	$ -	$ -	$ -	Englewood
WIDCN073	CONNECTOR, SPLIT-BOLT, #2 SOLID OR #6 TO #3 STRANDED WIRE,	BLACKBURN 2H BURNDY CORP. KS22 SQUARE D C2	0	EA	1	0	$ -	$ 9.11	$ 9.11	$ -	$ -	$ -	$ -	Englewood
WIDCN081	CONNECTOR, SPLIT-BOLT, #1/0 STRANDED OR #250 MCM CABLE	BLACKBURN BURNDY CORP. KS29 SQUARE D ASB40	0	EA	5	0	$ -	$ 13.36	$ 66.82	$ -	$ -	$ -	$ -	Englewood
WIDCN082	CONNECTOR, SPLIT-BOLT, #1/0 TO #350 MCM CABLE,	BLACKBURN 350M BURNDY CORP. KS31	0	EA	5	0	$ -	$ 21.48	$ 107.41	$ -	$ -	$ -	$ -	Englewood
WIDDC045	PLUG, MALE, 20A, 125/250V, 3-POLE, 3-WIRE, NEMA 10-20P. **INS ITEM**	BRYANT ELECTRIC 9151N PASS & SEYMOUR 9977	0	EA	2	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
WIDGR020	GRIP, CORD, .187-.312" HOLE, SMALL THREADED END, 1/2" HUB.	APPLETON CG1850	APPLETON CG1850	EA	8	5.684	$ 45.47	$ 9.55	$ 76.40	$ -	$ -	$ -	$ -	Anixter
WIDGR021	GRIP, CORD, .312-.437" HOLE, SMALL THREADED END, 1/2" HUB.	APPLETON CG3150	APPLETON CG3150	EA	19	5.684	$ 108.00	$ 9.79	$ 186.01	$ -	$ -	$ -	$ -	Anixter
WIDGR027	GRIP, CORD, .625-.750" HOLE, MEDIUM THREADED END, 3/4" HUB	APPLETON CG6275	APPLETON CG6275	EA	4	6.342	$ 25.37	$ 10.66	$ 42.64	$ -	$ -	$ -	$ -	Anixter

WIDGR031	GRIP, CORD, .875-1.00" HOLE, EXTRA LARGE THREADED END, 1 1/4" HUB.	APPLETON CG87125 CROUSE HINDS CGB498	APPLETON CG87125	EA	2	23.24	$ 46.48	$ 49.19	$ 98.38	$ -	$ -	$ -	$ -	Anixter
WIDGR032	GRIP, CORD, .375-.500" HOLE, SMALL THREADED END, 1/2" HUB	APPLETON CG3750 CROUSE HINDS CGB194	APPLETON CG3750	EA	3	5.684	$ 17.05	$ 12.20	$ 36.60	$ -	$ -	$ -	$ -	Anixter
WIDLG022	LUG, #8 TO #2 CABLE, 1/4" BOLT,	THOMAS AND BETTS 35401	0	EA	3	0	$ -	$ 4.45	$ 13.35	$ -	$ -	$ -	$ -	Englewood
WIDLG025	LUG, #6 TO #14 WIRE, SINGLE-BARREL TERMINAL,	BLACKBURN BTC0614 BURNDY CORP. KPA8C SQUARE D ZCF-35	0	EA	4	0	$ -	$ 1.82	$ 7.29	$ -	$ -	$ -	$ -	Englewood
WIDLG044	LUG, TERMINAL, SPADE, #16 TO #14 WIRE, .25" TAB, BLUE VINYL, INSULATED, (BOX QTY. 100 EA)	AMP 66024-2 PANDUIT CORP. DNF14-250MC	0	EA	100	0	$ -	$ 0.69	$ 69.00	$ -	$ -	$ -	$ -	Englewood
WIDRP041	RECEPTACLE, FEMALE, 3-WIRE, 4-POLE, STYLE 2, 600 VAC, 250 VDC, 60 AMP	APPLETON ARC6034BC	APPLETON ARC6034BC	EA	8	368.19	$ 2,945.52	$ 462.04	$ 3,696.28	$ -	$ -	$ -	$ -	Anixter
WIDRP054	RECEPTACLE, SINGLE, NEMA 5-20R, IVORY 20 AMPS, 120 VOLTS HUBBELL P/N 5361I	HUBBELL 5361-I LEVITON 5361-I	0	EA	1	0	$ -	$ 20.40	$ 20.40	$ -	$ -	$ -	$ -	Englewood
WIDSP001	SPLICE KIT, CABLE TAP, EPOXY, SCOTCH P/N 90B1	PARKER CYLINDERS 90-B1N	0	EA	1	0	$ -	$ 48.33	$ 48.33	$ -	$ -	$ 51.35	$ 51.35	Englewood
WIDSP020	SPLICE, BUTT, VINYL INSULATED, #22-18 WIRE, 100 PER PKG	THOMAS & BETTS 2RA18X	0	EA	1	0	$ -	$ 0.56	$ 0.56	$ -	$ -	$ -	$ -	Englewood
WIDSP027	SPLICE KIT, POWER CABLE, #2 WIRE, SCOTCH/3M P/N 82A1	PARKER CYLINDERS 82A1N	0	EA	1	0	$ -	$ 31.10	$ 31.10	$ -	$ -	$ 33.05	$ 33.05	Englewood
WIDST006	STRIP, TERMINAL, 10-CONTACT, #8-32 SCREWS, 9/16" CENTERS, MAX WIRE SIZE #10, CINCH P/N 10542	CINCH 10-542 IDEAL 89-210	0	EA	2	0	$ -	$ 19.41	$ 38.82	$ -	$ -	$ -	$ -	Englewood
WIDTL223	DISCONNECT, FEMALE, NYLON-INSULATED, #12 TO #10 WIRE, .032" TAB, THOMAS AND BETTS P/N RC10250F	THOMAS AND BETTS RC10250F.	0	EA	130	0	$ -	$ 1.10	$ 143.00	$ -	$ -	$ -	$ -	Englewood
WIDTR025	TY-RAP, 7.81"L, FOR 1 3/4" MAX BUNDLE DIA., 18# TENSILE STRENGTH, PKG. OF 100.	PANDUIT CORP. PLC2S-S10-C THOMAS AND BETTS TY535M	0	EA	600	0	$ -	$ 0.33	$ 198.00	$ -	$ -	$ -	$ -	Englewood
WIDWN023	WIRENUT, #60-14 WIRE, BLUE, SET SCREW	IDEAL 30-454	0	EA	11	0	$ -	$ 0.43	$ 4.73	$ -	$ -	$ -	$ -	Englewood
WIDWN024	WIRENUT, #18 TO #10 WIRE, RED,	IDEAL 30-076	0	EA	184	0	$ -	$ 0.17	$ 31.28	$ -	$ -	$ -	$ -	Englewood
WLDCA501	CABLE, WELDING, 600 VOLT, 1 GA., 500 FT REEL,		0	FT	500	0	$ -	$ 3.27	$ 1,635.00	$ -	$ -	$ -	$ -	Englewood
XFRPT021	TRANSFORMER, POTENTIAL, RATIO 120:1, 25 KV CLASS, 150 KV BIL, DRY TYPE, ABB TYPE VOG-15, 14400/24940GY	ABB POWER T & D E-7526A63G02 RITZ INSTRUMENT TRANSFORMERS I	0	EA	3	0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	No Bid
XFRPT030	TRANSFORMER, POTENTIAL, OIL FILLED, 138 KV, RATIO 700/1200:1:1, 650 KV BIL, ACC.CL.-0.3,W,X,Y,Z,ZZ. MUST COMPLY WITH IEEE STANDARDS. ALL HARDWARE S/S. APPROVAL DRAWINGS REQUIRED	ABB POWER T & D L741200TO ABB POWER T & D UTE-145-OH TRENCH GROUP UT5-650-138 TRENCH GROUP VEOTA-145	ABB POWER T & D L741200TO	EA	3	12396.8	$ 37,190.40	$ -	$ -	$ -	$ -	$ -	$ -	Anixter
							$ 828,888.76		$ 157,037.98		$ 171,047.00		$ 228,449.75	

Formal Bid and Award System

Award #13 November 18, 2021

Type of Award Request: SINGLE SOURCE
Requestor Name: Christiansen, Sandra H. - Manager, ERP Systems
Requestor Phone: (904) 665-4563
Project Title: Oracle E -Business Suite (EBS), Oracle Databases, Middleware Maintenance and Support
Project Number: HEB0600
Project Location: JEA
Funds: O&M
Budget Estimate: $2,931,054.00 ($1,070,534.00 (BL1727), $1,367,000.00 (BL1728), $493,520.00 (BL1738)) and ($17,848.00 (BL1733, budget transfer not included in total explained below))

Scope of Work:

This request is for a one (1) year single source award for all of Oracle's technical maintenance support services for Oracle's E-Business Suite (EBS), Middleware, and all Oracle databases software. Oracle's Customer Care and Billing (CC&B) utility billing software, which is used as the primary application throughout the company to record meter consumption, calculate usage, produce bills, receive payments and maintain customer relationship information has been migrated to the Oracle Customer to Meter (C2M) system and awarded separately. Oracle's EBS software is used for support of Oracle Apps and back-office processes including, but not limited to, Human Resources and Recruiting, Payroll and Benefits, Procurement (Accounts Payable, Purchasing, Inventory), Databases Software, Learning Management, Financials, and Project Billing.

Oracle support is critical for software and Oracle engineered hardware system updates, troubleshooting, patches, as well as compliance and regulatory updates. A few of the specific ways JEA utilizes Oracle support include: searching for solutions, downloading patches and updates, accessing proactive support tools, and creating service requests.

JEA IFB/RFP/State/City/GSA#: SKY-309955
Purchasing Agent: Dambrose, Nickolas C.
Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
ORACLE AMERICA INC.	Mavis Waters	mavis.waters@oracle.com	1910 Oracle Way Reston, VA 20190	(301) 641-0727	$2,948,902.07

Amount for entire term of Contract: $2,948,902.07
Award Amount for the remainder this FY: $2,948,902.07
Length of Contract/PO Term: One (1) Year w/ One – 1 Yr. Renewal
Begin Date (mm/dd/yyyy): 12/01/2021
End Date (mm/dd/yyyy): 11/30/2022
Renewal Options: Yes – One - 1 Yr. Renewal
JSEB Requirement: JSEB opportunities were reviewed and none were available

Background/Recommendation:

JEA began purchasing Oracle EBS licenses in the mid-1990s and Oracle CC&B licenses in 2007. The Awards Committee has approved maintenance and support of these single source licenses since the time of purchase with the current contract ending 11/30/2021. The ordering document quote, and previous awards are attached as backup.

This request is for a one (1) year single source award in the amount of $2,948,902.07, which includes all the maintenance and support for the Oracle EBS, Oracle Databases, Middleware and Oracle Engineered hardware systems (Exalogic, Exadata & ZFS). This award adds two (2) existing contracts for the Oracle storage drive at W Ashley Street and the Oracle storage drive at SOCC that were previously under warranty for hardware technical support. Upon expiration of the existing warranty, the two (2) additional contracts require extended warranties and shall be combined with the existing SKY contract as shown in the chart below. JEA's expectation is that these two (2) additional contracts shall be consolidated into the existing SKY contract going forward and shall no longer be treated separately. When compared to the rates in FY21, the new rates will increase by < 2% on like for like items.

Oracle Contract	Oracle Ordering Document	Comment	Start Date	End Date	Total Amount
11672248	34460747	Technical Support – Hardware Oracle storage drive W Ashley St	1-Dec-21	30-Nov-22	$25,911.47
11673862	9483675, 34460826	Technical Support – Hardware Oracle Storage drive SOCC	1-Dec-21	30-Nov-22	$32,113.76
SKY-3099550	N/A	Software / Hardware	30-Nov-21	30-Nov-22	$2,890,876.84
				Total Award Amount	**$2,948,902.07**

JEA is awarding a one (1) year contract by only committing quarterly payments in arrears with Oracle to continue negotiating a reduction in the projected increase during each quarterly payment for the remainder of the FY22, and to continue researching the removal of additional unused items. This is also being awarded on a one (1) year basis since JEA is assessing the current contract through a feasibility analysis to determine the best path forward. There is a budget shortage for this award. Additional funding of $17,848.00 shall be transferred from Budget Line #1733 to cover the budget shortage for this award.

Request approval to award a one (1) year single source award to Oracle America Inc. for maintenance and support services for Oracle E-Business Suite (EBS), Oracle Databases, Middleware and Oracle Engineered hardware systems in the amount of $2,948,902.07, subject to the availability of lawfully appropriated funds.

Director: Van Den Heuvel, Sharon - Director, ERP Systems
VP: Datz, Stephen H. - VP Technical Services

APPROVALS:

_____

Chairman, Awards Committee **Date**

_____

Budget Representative **Date**

Certification of Single Source or Emergency Procurement

Please use this form to certify a Single Source or Emergency Procurement complies with the requirements of the JEA Procurement Code. The JEA Procurement Code defines a Single Source and Emergency Procurement as follows:

3-112 Single Source

A Contract may be awarded for Supplies or Services as a Single Source when, pursuant to the Operational Procedures, the Chief Procurement Officer determines that:

(a) there is only one justifiable source for the required Supplies or Services;

(b) the Supplies or Services must be a certain type, brand, make or manufacturer due to the criticality of the item or compatibility within a JEA utility system, and such Supplies or Services may not be obtained from multiple sources such as distributors;

(c) the Services are a follow-up of Services that may only be done efficiently and effectively by the Vendor that rendered the initial Services to JEA, provided the Procurement of the initial Services was competitive;

(d) at the conclusion of a Pilot Project under Section 3-118 of this Code, the Procurement of Supplies or Services tested during the Pilot Project, provided the Vendor was competitively selected for the Pilot Project.

3-113 Emergency Procurements

In the event of an Emergency, the Chief Procurement Officer may make or authorize an Emergency Procurement, provided that Emergency Procurements shall be made with as much competition as practicable under the circumstances. A written Determination of the basis for the Emergency and for the selection of the particular Vendor shall be included in the Procurement file.

For purposes of this Section 3-113, an "Emergency" means any one of the following:

(a) a reasonably unforeseen breakdown in machinery;

(b) an interruption in the delivery of an essential governmental service or the development of a circumstance causing a threatened curtailment, diminution, or termination of an essential service;

(c) the development of a dangerous condition causing an immediate danger to the public health, safety, or welfare or other substantial loss to JEA;

(d) an immediate danger of loss of public or private property;

(e) the opportunity to secure significant financial gain, to avoid delays to any Governmental Entity or avoid significant financial loss through immediate or timely action; or (f) a valid public emergency certified by the Chief Executive Officer.

Please provide the following information:

1. Vendor Name:

_____

2. Description of Services or Supplies provided by Vendor:

_____

_____

_____

3. Certification:

I the undersigned certify that to the best of my knowledge, no JEA employee has, either directly or indirectly, a financial interest in this Single Source Emergency Procurement, and

I the undersigned certify that this procurement meets the requirements of a (choose one of the following):

☐ **Single Source Procurement**. Please state which subsection of Section 3-112 above applies to this Single Source Procurement:_____

OR

☐ **Emergency Procurement** - Please state which subsection of Section 3-113 above applies to this Emergency Procurement:_____

_____ _____

Signature of JEA Business Unit Manager **Date**

_____

Name of JEA Business Unit Manager

This certification shall be attached to the Purchase Order when it is routed for approval. A Single Source or Emergency Procurement shall be reported to the JEA Board in accordance with Section 1-110 of the JEA Procurement Code.

ORACLE

12-Nov-21

Dear Sandi Christiansen

A support service renewal is expired or about to expire.

The technical support services for support service number SKY-3099550 will expire, or have expired on 29-Nov-21.

Renewing these services is easy. Just click the Quick Checkout button below and complete your renewal online. Once your renewal is completed, the new Support Period for these services will begin on the start date listed for this renewal in your My Support Renewals account and will be provided through the end date as shown for this renewal in your My Support Renewals account. A renewal order containing all of the information about your renewal is also attached for your reference. So that there is no interruption in these services, please complete your renewal on or before 19-Nov-21. You can see and manage all of your support service renewals anytime on My Support Renewals by clicking the Manage Your Renewals button below.

Quick Checkout **Manage Your Renewals**

To log into My Support Renewals, you will need your username and password:

Your Oracle.com username is: **CHRISH@JEA.COM**
New Customer? Forgot your password? Reset.

If you are unable to complete your renewal on My Support Renewals, you can complete your renewal by following the instructions in the attached renewal order. So that there is no interruption in these services, please complete your renewal on or before 19-Nov-21. If applicable, the attached renewal order may include technical support services that you have requested to order that are in addition to the technical support services that you are renewing.

Have a question about your renewal? Call 301-641-0727 or email Oracle at mavis.waters@oracle.com**.**

Have a question regarding Auto Renew or the acceptance process on My Support Renewals? Call 301-641-0727, Chat on My Support Renewals, or Request Assistance.

ORACLE

TECHNICAL SUPPORT SERVICES RENEWAL ORDER

GENERAL INFORMATION

OFFER EXPIRATION		**ORACLE:** Oracle America, Inc.	
Support Service Number:	SKY-3099550	**Oracle Contact Information:** Mavis Waters	
Offer Expires:	29-Nov-21	**Telephone:** 301-641-0727 **Fax:** **Email:** mavis.waters@oracle.com	
CUSTOMER: JEA			
CUSTOMER QUOTE TO		**CUSTOMER BILL TO**	
Account Contact:	Sandi Christiansen	**Account Contact:**	Accounts Payable
Account Name:	JEA	**Account Name:**	JEA
Address:	JEA, T013 21 West Church Street, 13th Floor Jacksonville FL 32202 United States	**Address:**	PO BOX 4910 JACKSONVILLE FL 32201 United States
Telephone:	904 665-4563	**Telephone:**	-904-665-6460
Fax:		**Fax:**	
E-mail:	chrish@jea.com	**E-mail:**	acctpaycustsrv@jea.com

"You" and "Your" as used in this renewal order, refer to the Customer listed above.

Please take a minute to make sure the email information entered above is correct. Your email address is particularly important because Oracle may email You certain notices about technical support services. If You need to make any changes to the Customer information above, You can either login to your My Support Renewals account and select "Update Quote to Information" to edit Your "Quote To" information and You can edit Your "Bill To" information at check out. Alternatively, this information can be updated by providing Your current information along with Your support service number SKY-3099550, to Oracle per the General Information section above.

SERVICE DETAILS

Program Technical Support Services
Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Application Management Pack for E-Business Suite - Named User Plus Perpetual	16251171	200		FULL USE	1-Dec-21	30-Nov-22	2,127.34
Application Management Pack for E-Business Suite - Processor Perpetual	16251171	8		LIMITED USE SPECIFIED APP	1-Dec-21	30-Nov-22	3,039.10
Application Management Pack for E-Business Suite - Processor Perpetual	16251171	16		FULL USE	1-Dec-21	30-Nov-22	8,509.35
Oracle Internet Developer Suite - Named User Plus Perpetual	16251171	17		FULL USE	1-Dec-21	30-Nov-22	7,491.38
Primavera P6 Enterprise Project Portfolio Management - Application User Perpetual	17597517	5		FULL USE	1-Dec-21	30-Nov-22	3,516.85
Oracle Active Data Guard - Processor Perpetual	19655669	48		FULL USE	1-Dec-21	30-Nov-22	45,221.39

Program Technical Support Fees: USD 69,905.41

Program Technical Support Services
Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Primavera P6 Enterprise Project Portfolio Management - Application User Perpetual	22321615	3		FULL USE	1-Dec-21	30-Nov-22	1,766.91

Program Technical Support Fees: USD 1,766.91

Program Technical Support Services
Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Primavera P6 Enterprise Project Portfolio Management - Application User Perpetual	23255571	4		FULL USE	30-Nov-21	30-Nov-22	1,325.75

Program Technical Support Fees: USD 1,325.75

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Primavera P6 Enterprise Project Portfolio Management - Application User Perpetual	23628008	2		FULL USE	1-Dec-21	30-Nov-22	981.55

Program Technical Support Fees: USD 981.55

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Oracle Forms and Reports - Named User Plus Perpetual	15810461	60		FULL USE	1-Dec-21	30-Nov-22	3,689.20
Oracle Enterprise Asset Management - Enterprise $M in Operating Budget Perpetual	19657133	2500		FULL USE	1-Dec-21	30-Nov-22	45,958.80
Oracle Treasury - Application User Perpetual	19657133	10		FULL USE	1-Dec-21	30-Nov-22	18,871.82
Oracle API Catalog - Processor Perpetual	20158695	2		FULL USE	1-Dec-21	30-Nov-22	9,202.98
Oracle Identity Manager Connector - Microsoft Exchange - Connector Perpetual	20158695	1		FULL USE	1-Dec-21	30-Nov-22	6,047.66
Oracle Utilities Customer Care and Billing Integration to Oracle E-Business Suite Financials for General Ledger and Accounts Payable - Processor Perpetual	20158695	5		FULL USE	1-Dec-21	30-Nov-22	23,007.38

Program Technical Support Fees: USD 106,777.84

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Oracle E-Business Suite UPK General Ledger (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	4,178.71
Oracle E-Business Suite UPK Human Resources (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	2,089.32

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Oracle E-Business Suite UPK Internet Expenses (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	1,050.71
Oracle E-Business Suite UPK iProcurement (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	1,050.71
Oracle E-Business Suite UPK iSupplier Portal (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	2,089.32
Oracle E-Business Suite UPK Payables (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	2,089.32
Oracle E-Business Suite UPK Payroll (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	2,089.32
Oracle E-Business Suite UPK Purchasing (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	4,178.71
Oracle E-Business Suite UPK Receivables (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	2,089.32
Oracle E-Business Suite UPK Self-Service Human Resources (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	2,089.32
Oracle E-Business Suite UPK Time and Labor (over 4K employees and/or over $1 billion in revenue) - UPK Module Perpetual	16023911	1		FULL USE	1-Dec-21	30-Nov-22	2,089.32
Oracle Learning Management - Enterprise Trainee Perpetual	16023911	2500		FULL USE	1-Dec-21	30-Nov-22	15,670.82
Oracle Purchasing - Application Read-Only User Perpetual	16023911	800		FULL USE	1-Dec-21	30-Nov-22	82,380.80
Oracle User Productivity Kit Standard - UPK Developer Perpetual	16023911	4		FULL USE	1-Dec-21	30-Nov-22	9,497.17
Oracle User Productivity Kit - UPK Employee Perpetual	16023911	2500		FULL USE	1-Dec-21	30-Nov-22	10,175.50

Program Technical Support Fees: USD 142,808.37

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
MicroFocus Net Express (Mfr is MicroFocus Third Party Program) - Developer Perpetual	15397396	10		FULL USE	1-Dec-21	30-Nov-22	12,906.59
MicroFocus Server Express (Mfr is MicroFocus Third Party Program) - Developer Perpetual	15397396	1		FULL USE	1-Dec-21	30-Nov-22	12,906.63

Program Technical Support Fees: USD 25,813.22

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Oracle Procurement Contracts for Oracle Purchasing - Application User Perpetual	3168816	10		FULL USE	1-Dec-21	30-Nov-22	13,409.40

Program Technical Support Fees: USD 13,409.40

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Activity Management Gateway - Nonstandard User	3168816	1		FULL USE	1-Dec-21	30-Nov-22	25,607.89
Data Mart Suite - Nonstandard User	3168816	1	NONSTANDARD USER	FULL USE	1-Dec-21	30-Nov-22	25,607.89
EDI Gateway - Computer	3168816	1		FULL USE	1-Dec-21	30-Nov-22	10,066.42
Express Server - Named User Multi Server	3168816	30		FULL USE	1-Dec-21	30-Nov-22	2,818.48
Financials Intelligence - Employee Perpetual	3168816	2450		FULL USE	1-Dec-21	30-Nov-22	21,754.58
HR Intelligence - Person Perpetual	3168816	2450		FULL USE	1-Dec-21	30-Nov-22	10,877.31
iReceivables - Invoice Line	3168816	100000		FULL USE	1-Dec-21	30-Nov-22	887.94
iSupplier Portal - Purchase Line Perpetual	3168816	60000		FULL USE	1-Dec-21	30-Nov-22	10,655.26
Learning Management - Trainee Perpetual	3168816	2450		FULL USE	1-Dec-21	30-Nov-22	13,052.76

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Mobile Supply Chain Applications - Application User Perpetual	3168816	35		FULL USE	1-Dec-21	30-Nov-22	24,401.81
Oracle Advanced Benefits - Person Perpetual	3168816	2450		FULL USE	1-Dec-21	30-Nov-22	17,403.65
Oracle Discoverer Plus - Named User Multi Server	3168816	50		FULL USE	1-Dec-21	30-Nov-22	2,234.01
Oracle Financials & Sales Analyzers - Application User Perpetual	3168816	31		FULL USE	1-Dec-21	30-Nov-22	5,408.78
Oracle Financials - Application User Perpetual	3168816	200		FULL USE	1-Dec-21	30-Nov-22	41,470.69
Oracle Human Resources - Person Perpetual	3168816	2450		FULL USE	1-Dec-21	30-Nov-22	2,212.38
Oracle Internet Developer Suite - Named User Multi Server	3168816	17		FULL USE	1-Dec-21	30-Nov-22	15,079.89
Oracle Internet Expenses - Expense Report Perpetual	3168816	36000		FULL USE	1-Dec-21	30-Nov-22	31,965.88
Oracle iProcurement - Purchase Line Perpetual	3168816	60000		FULL USE	1-Dec-21	30-Nov-22	53,276.49
Oracle Programmer - Named User Multi Server	3168816	17		FULL USE	1-Dec-21	30-Nov-22	3,758.65
Oracle Purchasing - Application User Perpetual	3168816	200		FULL USE	1-Dec-21	30-Nov-22	13,619.46
Oracle Warehouse Management - Application User Perpetual	3168816	35		FULL USE	1-Dec-21	30-Nov-22	56,991.48
Order Management - Order Line Perpetual	3168816	500000		FULL USE	1-Dec-21	30-Nov-22	9,226.30
Payroll - Person Perpetual	3168816	2450		FULL USE	1-Dec-21	30-Nov-22	3,173.59
Project Billing - Project Person	3168816	2450		FULL USE	1-Dec-21	30-Nov-22	76,140.97
Project Costing - Project Person	3168816	2450		FULL USE	1-Dec-21	30-Nov-22	16,182.91
Purchasing Intelligence - Purchase Line Perpetual	3168816	60000		FULL USE	1-Dec-21	30-Nov-22	31,965.88
Time Management - Person	3168816	2450		FULL USE	1-Dec-21	30-Nov-22	1,106.04

Program Technical Support Fees: USD 526,947.39

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Oracle Business Intelligence Suite Enterprise Edition Plus - Named User Plus Perpetual	19862240	20		LIMITED USE OTHER	1-Dec-21	30-Nov-22	1,685.96
Oracle Informatica PowerCenter and PowerConnect Adapters - Named User Plus Perpetual	19862240	20		LIMITED USE OTHER	1-Dec-21	30-Nov-22	581.66
Exadata Storage Server Software - Disk Drive Perpetual	19863946	18		FULL USE	1-Dec-21	30-Nov-22	0.00
Oracle Active Data Guard - Processor Perpetual	19863946	18		FULL USE	1-Dec-21	30-Nov-22	0.00
Oracle Cloud Management Pack for Oracle Database - Processor Perpetual	19863946	18		FULL USE	1-Dec-21	30-Nov-22	0.00
Oracle Database Lifecycle Management Pack - Processor Perpetual	19863946	18		LIMITED USE SPECIFIED APP	1-Dec-21	30-Nov-22	0.00
Exadata Storage Server Software - Disk Drive Perpetual	19893465	18		FULL USE	1-Dec-21	30-Nov-22	0.00
Oracle Active Data Guard - Processor Perpetual	19893465	18		FULL USE	1-Dec-21	30-Nov-22	0.00
Oracle Cloud Management Pack for Oracle Database - Processor Perpetual	19893465	18		FULL USE	1-Dec-21	30-Nov-22	0.00
Oracle Database Lifecycle Management Pack - Processor Perpetual	19893465	18		LIMITED USE SPECIFIED APP	1-Dec-21	30-Nov-22	0.00
Exalogic Elastic Cloud Software - Processor Perpetual	19893467	48		FULL USE	1-Dec-21	30-Nov-22	0.00
Oracle Cloud Management Pack for Oracle Fusion Middleware - Processor Perpetual	19893467	48		FULL USE	1-Dec-21	30-Nov-22	0.00
Exalogic Elastic Cloud Software - Processor Perpetual	19893469	48		FULL USE	1-Dec-21	30-Nov-22	0.00
Oracle Cloud Management Pack for Oracle Fusion Middleware - Processor Perpetual	19893469	48		FULL USE	1-Dec-21	30-Nov-22	0.00
Exalogic Elastic Cloud Software - Processor Perpetual	19893471	48		FULL USE	1-Dec-21	30-Nov-22	101,116.16
Oracle Cloud Management Pack for Oracle Fusion Middleware - Processor Perpetual	19893471	48		FULL USE	1-Dec-21	30-Nov-22	75,837.03
Exadata Storage Server Software - Disk Drive Perpetual	19893473	36		FULL USE	1-Dec-21	30-Nov-22	50,558.08
Oracle Active Data Guard - Processor Perpetual	19893473	18		FULL USE	1-Dec-21	30-Nov-22	43,606.37

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Oracle Cloud Management Pack for Oracle Database - Processor Perpetual	19893473	18		FULL USE	1-Dec-21	30-Nov-22	28,438.90
Oracle Database Lifecycle Management Pack - Processor Perpetual	19893473	18		LIMITED USE SPECIFIED APP	1-Dec-21	30-Nov-22	32,230.79

Program Technical Support Fees: USD 334,054.95

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Configuration Management Pack for Oracle Database - Processor Perpetual	18072505	800		FULL USE	1-Dec-21	30-Nov-22	34,782.20
Oracle Business Intelligence Management Pack - Processor Perpetual	18072505	3		FULL USE	1-Dec-21	30-Nov-22	890.06
Oracle Business Intelligence Management Pack - Processor Perpetual	18072505	1		FULL USE	1-Dec-21	30-Nov-22	98.91
Oracle Business Intelligence Suite Enterprise Edition Plus - Processor Perpetual	18072505	1		FULL USE	1-Dec-21	30-Nov-22	2,537.01
Oracle Business Intelligence Suite Enterprise Edition Plus - Processor Perpetual	18072505	3		FULL USE	1-Dec-21	30-Nov-22	22,832.75
Oracle Database Enterprise Edition - Processor Perpetual	18072505	800		FULL USE	1-Dec-21	30-Nov-22	335,946.77
Oracle Diagnostics Pack - Processor Perpetual	18072505	800		FULL USE	1-Dec-21	30-Nov-22	34,782.20
Oracle E-Business Suite Adapter - Processor Perpetual	18072505	660		FULL USE	1-Dec-21	30-Nov-22	100,433.63
Oracle Partitioning - Processor Perpetual	18072505	126		FULL USE	1-Dec-21	30-Nov-22	12,599.86
Oracle Real Application Clusters - Processor Perpetual	18072505	218		FULL USE	1-Dec-21	30-Nov-22	43,599.50
Oracle Service Registry - Processor Perpetual	18072505	384		FULL USE	1-Dec-21	30-Nov-22	153,598.30
Oracle SOA Management Pack Enterprise Edition - Processor Perpetual	18072505	516		FULL USE	1-Dec-21	30-Nov-22	112,172.65

Program Technical Support Services

Service Level: Software Update License & Support

Product Description	CSI #	Qty	License Metric	License Level / Type	Start Date	End Date	Price
Oracle SOA Suite for Oracle Middleware - Processor Perpetual	18072505	516		FULL USE	1-Dec-21	30-Nov-22	257,997.13
Oracle Tuning Pack - Processor Perpetual	18072505	800		FULL USE	1-Dec-21	30-Nov-22	34,782.20
Oracle WebLogic Server Management Pack Enterprise Edition - Processor Perpetual	18072505	660		FULL USE	1-Dec-21	30-Nov-22	68,868.95
Oracle WebLogic Suite - Processor Perpetual	18072505	660		FULL USE	1-Dec-21	30-Nov-22	258,258.00

Program Technical Support Fees: USD 1,474,180.12

Hardware Technical Support Services

Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Installed At: JEA - 11400 N. Lamar Blvd AUSTIN TRAVIS TX 78753 United States						
Exalogic Elastic Cloud X5-2: model family		19858615	1	1-Dec-21	30-Nov-22	0.00
Exalogic Elastic Cloud X5-2: model family	AK00283936	19858615	1	1-Dec-21	30-Nov-22	0.00
Exalogic Elastic Cloud X5-2 Eighth Rack		19858615	1	1-Dec-21	30-Nov-22	31,658.79
ASSY,DISK SHELF,STORAGE DE2-24C (20x 4TB, 4x 200GB)	1452NMT02E	19858615	1	1-Dec-21	30-Nov-22	0.00
ASSY,ZS3-ES,256GB,2x8C CPU,Base	1508NML007	19858615	1	1-Dec-21	30-Nov-22	0.00
ASSY,ZS3-ES,256GB,2x8C CPU,Base	1508NML006	19858615	1	1-Dec-21	30-Nov-22	0.00
SUNDC Switch IB NM2-GW,LF	AK00283353	19858615	1	1-Dec-21	30-Nov-22	0.00
SUNDC Switch IB NM2-GW,LF	AK00303521	19858615	1	1-Dec-21	30-Nov-22	0.00
SWITCH,ENET,WS-C4948E-F-S,CISCO CATALYST,BACK TO FRONT COOLING	CAT1846S04V	19858615	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1504NM100B	19858615	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1503NM10H9	19858615	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1503NM10HB	19858615	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1504NM1002	19858615	1	1-Dec-21	30-Nov-22	0.00
RACK 42U-1200 W/HEAVY DUTY PAL	2047RTN-1506RB0143	19858615	1	1-Dec-21	30-Nov-22	0.00

Hardware Technical Support Services

Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Installed At: JEA - 21 W. Church Street Jacksonville Duval FL 32202 United States						
Exalogic Elastic Cloud X5-2: model family		19861977	1	1-Dec-21	30-Nov-22	0.00
Exalogic Elastic Cloud X5-2: model family	AK00283938	19861977	1	1-Dec-21	30-Nov-22	0.00
Exalogic Elastic Cloud X5-2 Eighth Rack		19861977	1	1-Dec-21	30-Nov-22	31,658.79
ASSY,DISK SHELF,STORAGE DE2-24C (20x 4TB, 4x 200GB)	1452NMT02C	19861977	1	1-Dec-21	30-Nov-22	0.00
ASSY,ZS3-ES,256GB,2x8C CPU,Base	1509NML0LX	19861977	1	1-Dec-21	30-Nov-22	0.00
ASSY,ZS3-ES,256GB,2x8C CPU,Base	1507NML10F	19861977	1	1-Dec-21	30-Nov-22	0.00
SUNDC Switch IB NM2-GW,LF	AK00138015	19861977	1	1-Dec-21	30-Nov-22	0.00
SUNDC Switch IB NM2-GW,LF	AK00283352	19861977	1	1-Dec-21	30-Nov-22	0.00
SWITCH,ENET,WS-C4948E-F-S,CISCO CATALYST,BACK TO FRONT COOLING	CAT1849S2D1	19861977	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1503NM10J3	19861977	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1503NM10J6	19861977	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1503NM10JV	19861977	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1503NM10GP	19861977	1	1-Dec-21	30-Nov-22	0.00
RACK 42U-1200 W/HEAVY DUTY PAL	2047RTN-1506RB0120	19861977	1	1-Dec-21	30-Nov-22	0.00
Installed At: JEA - 44 West Ashley St Jacksonville DUVAL FL 32202 United States						
Exadata Database Machine X5-2: model family		19861969	1	1-Dec-21	30-Nov-22	0.00
Exadata Database Machine X5-2: model family	AK00284035	19861969	1	1-Dec-21	30-Nov-22	0.00
Exadata Database Machine X5-2 HC Eighth Rack		19861969	1	1-Dec-21	30-Nov-22	27,859.78
RACK 42U-1200 W/HEAVY DUTY PAL	2047RTN-1506RB0127	19861969	1	1-Dec-21	30-Nov-22	0.00
SUNDC SWITCH IB-36P MANAGED,LF	AK00283086	19861969	1	1-Dec-21	30-Nov-22	0.00
SUNDC SWITCH IB-36P MANAGED,LF	AK00283085	19861969	1	1-Dec-21	30-Nov-22	0.00
SWITCH,ENET,WS-C4948E-F-S,CISCO CATALYST,BACK TO FRONT COOLING	CAT1849S29Y	19861969	1	1-Dec-21	30-Nov-22	0.00

Hardware Technical Support Services

Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
X5-2,1U DATABASE SERVER,EXADATA X5	1509NM105P	19861969	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U DATABASE SERVER,EXADATA X5	1509NM1052	19861969	1	1-Dec-21	30-Nov-22	0.00
X5-2L,2U,HIGH CAPACITY SERVER,EXADATA X5	1509NM70HD	19861969	1	1-Dec-21	30-Nov-22	0.00
X5-2L,2U,HIGH CAPACITY SERVER,EXADATA X5	1509NM70KA	19861969	1	1-Dec-21	30-Nov-22	0.00
X5-2L,2U,HIGH CAPACITY SERVER,EXADATA X5	1509NM70GC	19861969	1	1-Dec-21	30-Nov-22	0.00
Exadata Database Machine X5-2: model family		19861969	1	1-Dec-21	30-Nov-22	0.00
Exadata Database Machine X5-2: model family	AK00284036	19861969	1	1-Dec-21	30-Nov-22	0.00
Exadata Database Machine X5-2 HC Eighth Rack		19861969	1	1-Dec-21	30-Nov-22	27,859.78
RACK 42U-1200 W/HEAVY DUTY PAL	2047RTN-1506RB0045	19861969	1	1-Dec-21	30-Nov-22	0.00
SUNDC SWITCH IB-36P MANAGED,LF	AK00282304	19861969	1	1-Dec-21	30-Nov-22	0.00
SUNDC SWITCH IB-36P MANAGED,LF	AK00282305	19861969	1	1-Dec-21	30-Nov-22	0.00
SWITCH,ENET,WS-C4948E-F-S,CISCO CATALYST,BACK TO FRONT COOLING	CAT1847S2WD	19861969	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U DATABASE SERVER,EXADATA X5	1509NM105G	19861969	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U DATABASE SERVER,EXADATA X5	1509NM105A	19861969	1	1-Dec-21	30-Nov-22	0.00
X5-2L,2U,HIGH CAPACITY SERVER,EXADATA X5	1509NM70H3	19861969	1	1-Dec-21	30-Nov-22	0.00
X5-2L,2U,HIGH CAPACITY SERVER,EXADATA X5	1509NM706N	19861969	1	1-Dec-21	30-Nov-22	0.00
X5-2L,2U,HIGH CAPACITY SERVER,EXADATA X5	1509NM70B8	19861969	1	1-Dec-21	30-Nov-22	0.00
Exadata Database Machine X5-2 Eighth Rack to Quarter Rack Storage Server Upgrade		19861969	1	1-Dec-21	30-Nov-22	10,130.83
Dual rate transceiver: SFP+ SR. Support 1 Gb/sec and 10 Gb/sec dual rate		19861976	4	1-Dec-21	30-Nov-22	510.52

Hardware Technical Support Services

Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Dual rate transceiver: SFP+ SR. Support 1 Gb/sec and 10 Gb/sec dual rate		19861976	4	1-Dec-21	30-Nov-22	510.52
Optical splitter cable assembly: 50 meters, MT ferrule terminated, 12-fiber to 4x2-fiber, multimode, MPO to 4 LC connectors		19861976	4	1-Dec-21	30-Nov-22	646.33
Oracle Advanced Support Gateway Server X4-2		19861976	1	1-Dec-21	30-Nov-22	924.82
ASSY,ORACLE X4-2 ADVANCED SUPPORT GATEWAY 1U SERVER	1511NML18E	19861976	1	1-Dec-21	30-Nov-22	0.00
Rack Jmpr Cbl,Straight,2.0m,C14,15A,C13		19861976	2	1-Dec-21	30-Nov-22	6.39
Exalogic Elastic Cloud X5-2: model family		19861977	1	1-Dec-21	30-Nov-22	0.00
Exalogic Elastic Cloud X5-2: model family	AK00283933	19861977	1	1-Dec-21	30-Nov-22	0.00
Exalogic Elastic Cloud X5-2 Eighth Rack		19861977	1	1-Dec-21	30-Nov-22	31,658.79
ASSY,DISK SHELF,STORAGE DE2-24C (20x 4TB, 4x 200GB)	1452NMT028	19861977	1	1-Dec-21	30-Nov-22	0.00
ASSY,ZS3-ES,256GB,2x8C CPU,Base	1508NML00C	19861977	1	1-Dec-21	30-Nov-22	0.00
ASSY,ZS3-ES,256GB,2x8C CPU,Base	1507NML10J	19861977	1	1-Dec-21	30-Nov-22	0.00
SUNDC Switch IB NM2-GW,LF	AK00163961	19861977	1	1-Dec-21	30-Nov-22	0.00
SWITCH,ENET,WS-C4948E-F-S,CISCO CATALYST,BACK TO FRONT COOLING	CAT1847S2YJ	19861977	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1503NM10HW	19861977	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1503NM10GR	19861977	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1503NM10H3	19861977	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U EXALOGIC COMPUTE NODE SERVER	1503NM10HR	19861977	1	1-Dec-21	30-Nov-22	0.00
RACK 42U-1200 W/HEAVY DUTY PAL	2047RTN-1506RB0161	19861977	1	1-Dec-21	30-Nov-22	0.00
SUNDC Switch IB NM2-GW,LF	AK00260147	19861977	1	1-Dec-21	30-Nov-22	0.00

Installed At: JEA - 7720 Ramona Blvd, JACKSONVILLE DUVAL FL 32221 United States

Hardware Technical Support Services

Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Exadata Database Machine X5-2: model family		19858615	1	1-Dec-21	30-Nov-22	0.00
Exadata Database Machine X5-2: model family	AK00286272	19858615	1	1-Dec-21	30-Nov-22	0.00
Exadata Database Machine X5-2 HC Eighth Rack		19858615	1	1-Dec-21	30-Nov-22	27,859.56
RACK 42U-1200 W/HEAVY DUTY PAL	2047RTN-1507RB0131	19858615	1	1-Dec-21	30-Nov-22	0.00
SUNDC SWITCH IB-36P MANAGED,LF	AK00286219	19858615	1	1-Dec-21	30-Nov-22	0.00
SUNDC SWITCH IB-36P MANAGED,LF	AK00286202	19858615	1	1-Dec-21	30-Nov-22	0.00
SWITCH,ENET,WS-C4948E-F-S,CISCO CATALYST,BACK TO FRONT COOLING	CAT1849S2D2	19858615	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U DATABASE SERVER,EXADATA X5	1509NM1033	19858615	1	1-Dec-21	30-Nov-22	0.00
X5-2,1U DATABASE SERVER,EXADATA X5	1509NM1026	19858615	1	1-Dec-21	30-Nov-22	0.00
X5-2L,2U,HIGH CAPACITY SERVER,EXADATA X5	1509NM70EA	19858615	1	1-Dec-21	30-Nov-22	0.00
X5-2L,2U,HIGH CAPACITY SERVER,EXADATA X5	1509NM7099	19858615	1	1-Dec-21	30-Nov-22	0.00
X5-2L,2U,HIGH CAPACITY SERVER,EXADATA X5	1509NM70C2	19858615	1	1-Dec-21	30-Nov-22	0.00
Dual rate transceiver: SFP+ SR. Support 1 Gb/sec and 10 Gb/sec dual rate		19860362	4	1-Dec-21	30-Nov-22	510.52
Optical splitter cable assembly: 10 meters, MT ferrule terminated, 12-fiber to 4x2-fiber, multimode, MPO to 4 LC connectors		19860362	2	1-Dec-21	30-Nov-22	179.30
Oracle Advanced Support Gateway Server X4-2		19860362	1	1-Dec-21	30-Nov-22	924.82
ASSY,ORACLE X4-2 ADVANCED SUPPORT GATEWAY 1U SERVER	1511NML18F	19860362	1	1-Dec-21	30-Nov-22	0.00
Rack Jmpr Cbl,Straight,2.0m,C14,15A,C13		19860362	2	1-Dec-21	30-Nov-22	6.39

Hardware Technical Support Fees: USD 192,905.93

Total Price: USD 2,890,876.84

Plus applicable tax

NOTES

- If Oracle accepts Your renewal order, the start date set forth in the Service Details table above shall serve as the commencement date of the technical support services and the technical support services ordered under this renewal order will be provided through the end date specified in the table for the applicable programs and/ or hardware ("Support Period").
- If any of the fields listed in the Service Details table above are blank, then such fields do not apply to Your renewal.

TECHNICAL SUPPORT SERVICES TERMS

If the Customer and the Customer Quote To name identified in the General Information table above are not the same, JEA represents that Customer has authorized JEA to execute this renewal order on the Customer's behalf and to bind the Customer to the terms contained in this renewal order. JEA agrees that the services ordered are for the sole benefit of Customer and shall only be used by Customer. JEA agrees to advise Customer of the terms of this renewal order as well as any communications received from Oracle regarding the services.

If the Customer and the Customer Bill To name identified in the General Information table above are not the same, Customer agrees that: a) Customer has the ultimate responsibility for payments under this renewal order; and b) any failure of JEA to make timely payment per the terms of this renewal order shall be deemed a breach by Customer and, in addition to any other remedies available to Oracle, Oracle may terminate Customer's technical support service under this renewal order.

Technical support is provided under Oracle's technical support policies in effect at the time the services are provided. The technical support policies are subject to change at Oracle's discretion; however, Oracle will not materially reduce the level of services provided for supported programs and/or hardware during the period for which fees for technical support have been paid, or for U.S. federal and public sector entities, the period for which services have been ordered. You should review the technical support policies prior to entering into this renewal order.

The current version of the technical support policies may be accessed at http://www.oracle.com/us/support/policies/index.html.

Regarding the inclusion of DFARS 252.204-7012, the parties agree that DFARS 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (OCT 2016), does not apply to the Commercial Off the Shelf (COTS) licenses or hardware, and does not apply to the associated technical support because Oracle will not process, collect, develop, receive, transmit, use, or store " covered defense information" on "covered contractor information systems" as defined in DFARS 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (OCT 2016), in performance of the associated technical support services ordered under this renewal quote, and the Government agrees that it will not provide "covered defense information" to Oracle in performance of the associated technical support services.

The technical support services renewed under this renewal order are governed by the terms and conditions of the US-OMA-271987 ("agreement"). Any use of the programs and/or hardware, which includes updates and other materials provided or made available by Oracle as a part of technical support services, is subject to the rights granted for the programs and/or hardware set forth in the order in which the programs and/or hardware were acquired.

This renewal order incorporates the agreement by reference. In the event of inconsistencies between the terms contained in this renewal order and the agreement, this renewal order shall take precedence.

RENEWAL PROCESSING DETAILS

Please renew the technical support services on this renewal order on My Support Renewals.

If You are unable to renew using My Support Renewals, You can renew using the options below. Your renewal order is subject to Oracle's acceptance. Your renewal is considered complete when You provide Oracle with payment details for the renewal as detailed below or an executed Oracle Financing contract. Once completed, Your renewal cannot be cancelled and Your payment is nonrefundable, except as provided in the agreement. Oracle will issue an invoice to You upon receipt of a purchase order or a form of payment acceptable to Oracle. If You are U.S. federal government or public sector entity, Oracle will issue You an invoice quarterly in arrears after the services are performed.

Unless you are an U.S. federal government entity, Oracle's invoice includes applicable sales tax, GST, or VAT (collectively referred to as "tax"). If JEA is a tax exempt organization and is not an U.S. federal government entity, a copy of JEA's tax exemption certificate must be submitted with JEA's purchase order, credit card, or other acceptable form of payment.

Please note that unless You are a U.S. federal government or public sector entity, if the pre-tax value of this renewal is USD $2,000 or less, the technical support services ordered must be paid by credit card; or You must renew Your support on My Support Renewals.

Technical Support fees are invoiced Quarterly in Arrears. All fees payable to Oracle are due within 30 NET from date of invoice.

You agree to pay any sales, value-added or other similar taxes imposed by applicable law, except for taxes based on Oracle's income.

PAYMENT DETAILS

Purchase Order
If You are submitting a purchase order for the payment of the renewal of the technical support services on this renewal order, the purchase order must be in a non-editable format (e.g., PDF) and include the following information:

- Support Service Number: SKY-3099550
- Total Price: USD 2,890,876.84 (excluding applicable tax)
- Local Tax, if applicable

In issuing a purchase order, JEA agrees that the terms of this renewal order and the agreement supersede the terms in the purchase order or any other non-Oracle document, and no terms included in any such purchase order or other non-Oracle document shall apply to the technical support services renewed under this renewal order.

Please contact Oracle per the General Information section above to issue Your purchase order.

Credit Card
If You wish to use a credit card to pay for the renewal of the technical support services on this renewal order, please contact Oracle per the General Information section above. Please note that Oracle is unable to process credit card transactions of USD $100,000 or greater or transactions that are not in USD.

Check
If You are submitting a check for the payment of the renewal of the technical support services on this

renewal order, the check must include the following information:

- Support Service Number: SKY-3099550
- Total Price: USD 2,890,876.84 (excluding applicable tax)
- Local Tax, if applicable

In issuing a check, JEA agrees that only the terms of this renewal order and the agreement shall apply to the technical support services renewed under this renewal order. No terms attached or submitted with the check will apply.

Checks for technical support services renewed under this renewal order should be sent to:

Checks for technical support services renewed under this renewal order should be sent to:

AK, AZ, CA, HI, ID, NV, OR, UT, WA:

Oracle America, Inc
PO Box 44471
San Francisco, CA 94144-4471

All Other States:

Oracle America, Inc
PO Box 203448
Dallas, TX 75320-3448

Payment Confirmation
If You cannot pay using any of the payment methods described above, please complete this payment confirmation and submit it to Oracle. Please initial the following statement that best applies to You.

____ JEA does not issue purchase orders.
____ JEA does not require a purchase order for the services ordered hereto.

JEA certifies that the information provided above is accurate and complies with JEA's business practices in entering into this renewal order, including obtaining all necessary approvals to release the funds for this renewal. In issuing this payment confirmation, JEA agrees that the terms of this renewal order and the agreement shall apply to the technical support services ordered under this renewal order. No terms attached or submitted with the payment confirmation will apply.

The signature below affirms JEA's commitment to pay for the services ordered in accordance with the terms of this renewal order.

JEA

_____
Authorized Signature

_____
Name

_____
Title

_____
Signature Date

Please contact Oracle per the General Information section above to issue Your Payment Confirmation.

4-Nov-21

Dear Sandi Christiansen

A support service renewal is expired or about to expire.

The technical support services for support service number 11672248 will expire, or have expired on 30-Nov-21.

Renewing these services is easy. Just click the Quick Checkout button below and complete your renewal online. Once your renewal is completed, the new Support Period for these services will begin on the start date listed for this renewal in your My Support Renewals account and will be provided through the end date as shown for this renewal in your My Support Renewals account. A renewal order containing all of the information about your renewal is also attached for your reference. So that there is no interruption in these services, please complete your renewal on or before 11-Nov-21. You can see and manage all of your support service renewals anytime on My Support Renewals by clicking the Manage Your Renewals button below.

Quick Checkout **Manage Your Renewals**

To log into My Support Renewals, you will need your username and password:

Your Oracle.com username is: **CHRISH@JEA.COM**
New Customer? Forgot your password? Reset.

If you are unable to complete your renewal on My Support Renewals, you can complete your renewal by following the instructions in the attached renewal order. So that there is no interruption in these services, please complete your renewal on or before 11-Nov-21. If applicable, the attached renewal order may include technical support services that you have requested to order that are in addition to the technical support services that you are renewing.

Have a question about your renewal? Call 301-641-0727 or email Oracle at mavis.waters@oracle.com**.**

Have a question regarding Auto Renew or the acceptance process on My Support Renewals? Call 301-641-0727, Chat on My Support Renewals, or Request Assistance.

ORACLE

TECHNICAL SUPPORT SERVICES RENEWAL ORDER

GENERAL INFORMATION

OFFER EXPIRATION		**ORACLE:** Oracle America, Inc.	
Support Service Number:	11672248	**Oracle Contact Information:** Mavis Waters	
Offer Expires:	30-Nov-21	**Telephone:** 301-641-0727 **Fax:** **Email:** mavis.waters@oracle.com	
CUSTOMER: JEA			
CUSTOMER QUOTE TO		**CUSTOMER BILL TO**	
Account Contact:	Sandi Christiansen	**Account Contact:**	Accounts Payable
Account Name:	JEA	**Account Name:**	JEA
Address:	44 West Ashley ST 5th FL Jacksonville FL 32202 United States	**Address:**	PO Box 4910 JACKSONVILLE FL 32201 United States
Telephone:	904 665-4563	**Telephone:**	
Fax:		**Fax:**	
E-mail:	chrish@jea.com	**E-mail:**	ACCTPAYCUSTSRV@JEA.COM

"You" and "Your" as used in this renewal order, refer to the Customer listed above.

Please take a minute to make sure the email information entered above is correct. Your email address is particularly important because Oracle may email You certain notices about technical support services. If You need to make any changes to the Customer information above, You can either login to your My Support Renewals account and select "Update Quote to Information" to edit Your "Quote To" information and You can edit Your "Bill To" information at check out. Alternatively, this information can be updated by providing Your current information along with Your support service number 11672248, to Oracle per the General Information section above.

SERVICE DETAILS

Hardware Technical Support Services

Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Installed At: JEA - 44 West Ashley St Jacksonville DUVAL FL 32202 United States						
Cable management arm		20777221	2	1-Dec-21	30-Nov-22	42.43
Oracle Storage Drive Enclosure DE2-24C: model family		20777221	1	1-Dec-21	30-Nov-22	0.00
Oracle Storage Drive Enclosure DE2-24C: model family	1632NMT00R	20777221	1	1-Dec-21	30-Nov-22	0.00
Filler panel (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	3.55
One 3.5-inch SSD write flash accelerator with Heron bracket and Cabrio adapter (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	640.72
One 8 TB 7200 rpm 3.5-inch SAS-3 HDD with heron bracket (for factory installation)		20777221	20	1-Dec-21	30-Nov-22	2,236.04
Oracle Storage Drive Enclosure DE2-24C: base chassis (for factory installation)		20777221	1	1-Dec-21	30-Nov-22	586.75
Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	7.00
Oracle Storage Drive Enclosure DE2-24C: model family		20777221	1	1-Dec-21	30-Nov-22	0.00
Oracle Storage Drive Enclosure DE2-24C: model family	1632NMT00T	20777221	1	1-Dec-21	30-Nov-22	0.00
Filler panel (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	3.55
One 3.5-inch SSD write flash accelerator with Heron bracket and Cabrio adapter (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	640.72
One 8 TB 7200 rpm 3.5-inch SAS-3 HDD with heron bracket (for factory installation)		20777221	20	1-Dec-21	30-Nov-22	2,236.04
Oracle Storage Drive Enclosure DE2-24C: base chassis (for factory installation)		20777221	1	1-Dec-21	30-Nov-22	586.75
Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	7.00

Hardware Technical Support Services

Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Oracle ZFS Storage Appliance Cloning - Integrated Software Option - per Management Controller Metric		20777221	2	1-Dec-21	30-Nov-22	1,563.23
Storage ZS3-2 ATO Base Model		20777221	1	1-Dec-21	30-Nov-22	0.00
Oracle ZFS Storage ZS3-2: model family	1632NM200C	20777221	1	1-Dec-21	30-Nov-22	0.00
One 1.6 TB 2.5-inch SAS SSD read flash accelerator with bracket (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	1,738.02
One 32GB DDR3-1066 registered DIMM (for factory installation)		20777221	16	1-Dec-21	30-Nov-22	2,266.46
Optical cable assembly: 10 meters, MT ferrule terminated, 12-fiber, multimode, MPO connectors (for factory installation)		20777221	4	1-Dec-21	30-Nov-22	346.67
Oracle Dual Port QDR InfiniBand Adapter M3 (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	656.72
Oracle ZFS Storage ZS3-2: controller		20777221	1	1-Dec-21	30-Nov-22	2,049.07
ASSY, ZS3-2, Base		20777221	1	1-Dec-21	30-Nov-22	0.00
Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	7.00
QSFP parallel fiber optics short wave transceiver (for factory Installation)		20777221	8	1-Dec-21	30-Nov-22	850.49
Sun 10Gbps Dual Rate SFP+ SR		20777221	4	1-Dec-21	30-Nov-22	100.76
Sun Dual 10GbE SFP+ PCIe Low Profile Adapter		20777221	2	1-Dec-21	30-Nov-22	378.76
Storage ZS3-2 ATO Base Model		20777221	1	1-Dec-21	30-Nov-22	0.00
Oracle ZFS Storage ZS3-2: model family	1632NM200B	20777221	1	1-Dec-21	30-Nov-22	0.00
One 1.6 TB 2.5-inch SAS SSD read flash accelerator with bracket (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	1,738.02
One 32GB DDR3-1066 registered DIMM (for factory installation)		20777221	16	1-Dec-21	30-Nov-22	2,267.34
Optical cable assembly: 10 meters, MT ferrule terminated, 12-fiber, multimode, MPO connectors (for factory installation)		20777221	4	1-Dec-21	30-Nov-22	346.67
Oracle Dual Port QDR InfiniBand Adapter M3 (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	656.72
Oracle ZFS Storage ZS3-2: controller		20777221	1	1-Dec-21	30-Nov-22	2,049.07

Hardware Technical Support Services

Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
ASSY, ZS3-2, Base		20777221	1	1-Dec-21	30-Nov-22	0.00
Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)		20777221	2	1-Dec-21	30-Nov-22	7.00
QSFP parallel fiber optics short wave transceiver (for factory Installation)		20777221	8	1-Dec-21	30-Nov-22	850.49
Sun 10Gbps Dual Rate SFP+ SR		20777221	4	1-Dec-21	30-Nov-22	100.76
Sun Dual 10GbE SFP+ PCIe Low Profile Adapter		20777221	2	1-Dec-21	30-Nov-22	378.76
Sun Rack II 1242/1242E		20777221	1	1-Dec-21	30-Nov-22	128.77
Sun Rack II 1242/1242E	2047rtn-16339q0003	20777221	1	1-Dec-21	30-Nov-22	0.00
Jumper Cable Kit SunRack II		20777221	1	1-Dec-21	30-Nov-22	23.73
PDU 15kVA,3-Phase,4-Pin,LV		20777221	2	1-Dec-21	30-Nov-22	287.64
Sun Rack II 1242,Non-Conf Ship		20777221	1	1-Dec-21	30-Nov-22	128.77
RACK 42U-1200 W/LIGHT DUTY PAL		20777221	1	1-Dec-21	30-Nov-22	0.00

Hardware Technical Support Fees: USD 25,911.47

Total Price: USD 25,911.47

Plus applicable tax

NOTES

- If Oracle accepts Your renewal order, the start date set forth in the Service Details table above shall serve as the commencement date of the technical support services and the technical support services ordered under this renewal order will be provided through the end date specified in the table for the applicable programs and/ or hardware ("Support Period").
- If any of the fields listed in the Service Details table above are blank, then such fields do not apply to Your renewal.

TECHNICAL SUPPORT SERVICES TERMS

If the Customer and the Customer Quote To name identified in the General Information table above are not the same, JEA represents that Customer has authorized JEA to execute this renewal order on the Customer's behalf and to bind the Customer to the terms contained in this renewal order. JEA agrees that the services ordered are for the sole benefit of Customer and shall only be used by Customer. JEA agrees to advise Customer of the terms of this renewal order as well as any communications received from Oracle regarding the services.

If the Customer and the Customer Bill To name identified in the General Information table above are not the same, Customer agrees that: a) Customer has the ultimate responsibility for payments under this renewal order; and b) any failure of JEA to make timely payment per the terms of this renewal order shall be deemed a breach by Customer and, in addition to any other remedies available to Oracle, Oracle may terminate Customer's technical support service under this renewal order.

Technical support is provided under Oracle's technical support policies in effect at the time the services are provided. The technical support policies are subject to change at Oracle's discretion; however, Oracle will not materially reduce the level of services provided for supported programs and/or hardware during the period for which fees for technical support have been paid, or for U.S. federal and public sector entities, the period for which services have been ordered. You should review the technical support policies prior to entering into this renewal order.

The current version of the technical support policies may be accessed at http://www.oracle.com/us/support/policies/index.html.

Regarding the inclusion of DFARS 252.204-7012, the parties agree that DFARS 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (OCT 2016), does not apply to the Commercial Off the Shelf (COTS) licenses or hardware, and does not apply to the associated technical support because Oracle will not process, collect, develop, receive, transmit, use, or store " covered defense information" on "covered contractor information systems" as defined in DFARS 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (OCT 2016), in performance of the associated technical support services ordered under this renewal quote, and the Government agrees that it will not provide "covered defense information" to Oracle in performance of the associated technical support services.

The technical support services renewed under this renewal order are governed by the terms and conditions of the SLSA-215070-18-MAY-95 ("agreement"). Any use of the programs and/or hardware, which includes updates and other materials provided or made available by Oracle as a part of technical support services, is subject to the rights granted for the programs and/or hardware set forth in the order in which the programs and/or hardware were acquired.

This renewal order incorporates the agreement by reference. In the event of inconsistencies between the terms contained in this renewal order and the agreement, this renewal order shall take precedence.

RENEWAL PROCESSING DETAILS

Please renew the technical support services on this renewal order on My Support Renewals.

If You are unable to renew using My Support Renewals, You can renew using the options below. Your renewal order is subject to Oracle's acceptance. Your renewal is considered complete when You provide Oracle with payment details for the renewal as detailed below or an executed Oracle Financing contract. Once completed, Your renewal cannot be cancelled and Your payment is nonrefundable, except as provided in the agreement. Oracle will issue an invoice to You upon receipt of a purchase order or a form of payment acceptable to Oracle. If You are U.S. federal government or public sector entity, Oracle will issue You an invoice quarterly in arrears after the services are performed.

Unless you are an U.S. federal government entity, Oracle's invoice includes applicable sales tax, GST, or VAT (collectively referred to as "tax"). If JEA is a tax exempt organization and is not an U.S. federal government entity, a copy of JEA's tax exemption certificate must be submitted with JEA's purchase order, credit card, or other acceptable form of payment.

Please note that unless You are a U.S. federal government or public sector entity, if the pre-tax value of this renewal is USD $2,000 or less, the technical support services ordered must be paid by credit card; or You must renew Your support on My Support Renewals.

Technical Support fees are invoiced Quarterly in Arrears. All fees payable to Oracle are due within 30 NET from date of invoice.

You agree to pay any sales, value-added or other similar taxes imposed by applicable law, except for taxes based on Oracle's income.

PAYMENT DETAILS

Purchase Order
If You are submitting a purchase order for the payment of the renewal of the technical support services on this renewal order, the purchase order must be in a non-editable format (e.g., PDF) and include the following information:

- Support Service Number: 11672248
- Total Price: USD 25,911.47 (excluding applicable tax)
- Local Tax, if applicable

In issuing a purchase order, JEA agrees that the terms of this renewal order and the agreement supersede the terms in the purchase order or any other non-Oracle document, and no terms included in any such purchase order or other non-Oracle document shall apply to the technical support services renewed under this renewal order.

Please contact Oracle per the General Information section above to issue Your purchase order.

Credit Card
If You wish to use a credit card to pay for the renewal of the technical support services on this renewal order, please contact Oracle per the General Information section above. Please note that Oracle is unable to process credit card transactions of USD $100,000 or greater or transactions that are not in USD.

Check
If You are submitting a check for the payment of the renewal of the technical support services on this

renewal order, the check must include the following information:

- Support Service Number: 11672248
- Total Price: USD 25,911.47 (excluding applicable tax)
- Local Tax, if applicable

In issuing a check, JEA agrees that only the terms of this renewal order and the agreement shall apply to the technical support services renewed under this renewal order. No terms attached or submitted with the check will apply.

Checks for technical support services renewed under this renewal order should be sent to:

Checks for technical support services renewed under this renewal order should be sent to:

AK, AZ, CA, HI, ID, NV, OR, UT, WA:

Oracle America, Inc
PO Box 44471
San Francisco, CA 94144-4471

All Other States:

Oracle America, Inc
PO Box 203448
Dallas, TX 75320-3448

Payment Confirmation
If You cannot pay using any of the payment methods described above, please complete this payment confirmation and submit it to Oracle. Please initial the following statement that best applies to You.

____ JEA does not issue purchase orders.
____ JEA does not require a purchase order for the services ordered hereto.

JEA certifies that the information provided above is accurate and complies with JEA's business practices in entering into this renewal order, including obtaining all necessary approvals to release the funds for this renewal. In issuing this payment confirmation, JEA agrees that the terms of this renewal order and the agreement shall apply to the technical support services ordered under this renewal order. No terms attached or submitted with the payment confirmation will apply.

The signature below affirms JEA's commitment to pay for the services ordered in accordance with the terms of this renewal order.

JEA

_____
Authorized Signature

_____
Name

_____
Title

_____
Signature Date

Please contact Oracle per the General Information section above to issue Your Payment Confirmation.

ORACLE

12-Nov-21

Dear Sandi Christiansen

A support service renewal is expired or about to expire.

The technical support services for support service number 11673862 will expire, or have expired on 30-Nov-21.

Renewing these services is easy. Just click the Quick Checkout button below and complete your renewal online. Once your renewal is completed, the new Support Period for these services will begin on the start date listed for this renewal in your My Support Renewals account and will be provided through the end date as shown for this renewal in your My Support Renewals account. A renewal order containing all of the information about your renewal is also attached for your reference. So that there is no interruption in these services, please complete your renewal on or before 19-Nov-21. You can see and manage all of your support service renewals anytime on My Support Renewals by clicking the Manage Your Renewals button below.

Quick Checkout **Manage Your Renewals**

To log into My Support Renewals, you will need your username and password:

Your Oracle.com username is: **CHRISH@JEA.COM**
New Customer? Forgot your password? Reset.

If you are unable to complete your renewal on My Support Renewals, you can complete your renewal by following the instructions in the attached renewal order. So that there is no interruption in these services, please complete your renewal on or before 19-Nov-21. If applicable, the attached renewal order may include technical support services that you have requested to order that are in addition to the technical support services that you are renewing.

Have a question about your renewal? Call 301-641-0727 or email Oracle at mavis.waters@oracle.com**.**

Have a question regarding Auto Renew or the acceptance process on My Support Renewals? Call 301-641-0727, Chat on My Support Renewals, or Request Assistance.

ORACLE

TECHNICAL SUPPORT SERVICES RENEWAL ORDER

GENERAL INFORMATION

OFFER EXPIRATION		**ORACLE:** Oracle America, Inc.	
Support Service Number:	11673862	**Oracle Contact Information:** Mavis Waters	
Offer Expires:	30-Nov-21	**Telephone:** 301-641-0727 **Fax:** **Email:** mavis.waters@oracle.com	
CUSTOMER: JEA			
CUSTOMER QUOTE TO		**CUSTOMER BILL TO**	
Account Contact:	Sandi Christiansen	**Account Contact:**	Accounts Payable
Account Name:	JEA	**Account Name:**	JEA
Address:	SOCC 7720 Ramona Boulevard JACKSONVILLE FL 32221 United States	**Address:**	PO Box 4910 JACKSONVILLE FL 32201 United States
Telephone:	904 665-4563	**Telephone:**	
Fax:		**Fax:**	
E-mail:	chrish@jea.com	**E-mail:**	ACCTPAYCUSTSRV@JEA.COM

"You" and "Your" as used in this renewal order, refer to the Customer listed above.

Please take a minute to make sure the email information entered above is correct. Your email address is particularly important because Oracle may email You certain notices about technical support services. If You need to make any changes to the Customer information above, You can either login to your My Support Renewals account and select "Update Quote to Information" to edit Your "Quote To" information and You can edit Your "Bill To" information at check out. Alternatively, this information can be updated by providing Your current information along with Your support service number 11673862, to Oracle per the General Information section above.

SERVICE DETAILS

Hardware Technical Support Services

Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Installed At: JEA - SOCC 7720 Ramona Boulevard JACKSONVILLE DUVAL FL 32221 United States						
Cable management arm		20775305	2	1-Dec-21	30-Nov-22	42.43
Oracle Storage Drive Enclosure DE2-24C: model family		20775305	1	1-Dec-21	30-Nov-22	0.00
Oracle Storage Drive Enclosure DE2-24C: model family	1632NMT00W	20775305	1	1-Dec-21	30-Nov-22	0.00
Filler panel (for factory installation)		20775305	4	1-Dec-21	30-Nov-22	7.10
One 8 TB 7200 rpm 3.5-inch SAS-3 HDD with heron bracket (for factory installation)		20775305	20	1-Dec-21	30-Nov-22	2,236.04
Oracle Storage Drive Enclosure DE2-24C: base chassis (for factory installation)		20775305	1	1-Dec-21	30-Nov-22	586.75
Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	7.00
Oracle Storage Drive Enclosure DE2-24C: model family		20775305	1	1-Dec-21	30-Nov-22	0.00
Oracle Storage Drive Enclosure DE2-24C: model family	1632NMT00X	20775305	1	1-Dec-21	30-Nov-22	0.00
Filler panel (for factory installation)		20775305	4	1-Dec-21	30-Nov-22	7.10
One 8 TB 7200 rpm 3.5-inch SAS-3 HDD with heron bracket (for factory installation)		20775305	20	1-Dec-21	30-Nov-22	2,236.04
Oracle Storage Drive Enclosure DE2-24C: base chassis (for factory installation)		20775305	1	1-Dec-21	30-Nov-22	586.75
Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	6.97
Oracle Storage Drive Enclosure DE2-24C: model family		20775305	1	1-Dec-21	30-Nov-22	0.00
Oracle Storage Drive Enclosure DE2-24C: model family	1632NMT00U	20775305	1	1-Dec-21	30-Nov-22	0.00
Filler panel (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	3.55

Hardware Technical Support Services						
Service Level: Oracle Premier Support for Systems						
Product Description	**Serial Number**	**CSI #**	**Qty**	**Start Date**	**End Date**	**Price**
One 3.5-inch SSD write flash accelerator with Heron bracket and Cabrio adapter (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	640.72
One 8 TB 7200 rpm 3.5-inch SAS-3 HDD with heron bracket (for factory installation)		20775305	20	1-Dec-21	30-Nov-22	2,236.04
Oracle Storage Drive Enclosure DE2-24C: base chassis (for factory installation)		20775305	1	1-Dec-21	30-Nov-22	586.81
Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	7.00
Oracle Storage Drive Enclosure DE2-24C: model family		20775305	1	1-Dec-21	30-Nov-22	0.00
Oracle Storage Drive Enclosure DE2-24C: model family	1632NMT00V	20775305	1	1-Dec-21	30-Nov-22	0.00
Filler panel (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	3.55
One 3.5-inch SSD write flash accelerator with Heron bracket and Cabrio adapter (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	640.72
One 8 TB 7200 rpm 3.5-inch SAS-3 HDD with heron bracket (for factory installation)		20775305	20	1-Dec-21	30-Nov-22	2,236.04
Oracle Storage Drive Enclosure DE2-24C: base chassis (for factory installation)		20775305	1	1-Dec-21	30-Nov-22	586.81
Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	7.00
Oracle ZFS Storage Appliance Cloning - Integrated Software Option - per Management Controller Metric		20775305	2	1-Dec-21	30-Nov-22	1,563.23
Storage ZS3-2 ATO Base Model		20775305	1	1-Dec-21	30-Nov-22	0.00
Oracle ZFS Storage ZS3-2: model family	1632NM200D	20775305	1	1-Dec-21	30-Nov-22	0.00
Cable: 3 meters, mini SAS to mini SAS HD (for factory installation)		20775305	4	1-Dec-21	30-Nov-22	89.22
One 1.6 TB 2.5-inch SAS SSD read flash accelerator with bracket (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	1,738.02
One 32GB DDR3-1066 registered DIMM (for factory installation)		20775305	16	1-Dec-21	30-Nov-22	2,266.46

Hardware Technical Support Services

Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Optical cable assembly: 10 meters, MT ferrule terminated, 12-fiber, multimode, MPO connectors (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	173.34
Oracle Dual Port QDR InfiniBand Adapter M3 (for factory installation)		20775305	1	1-Dec-21	30-Nov-22	328.35
Oracle ZFS Storage ZS3-2: controller		20775305	1	1-Dec-21	30-Nov-22	2,049.07
ASSY, ZS3-2, Base		20775305	1	1-Dec-21	30-Nov-22	0.00
Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	7.00
QSFP parallel fiber optics short wave transceiver (for factory Installation)		20775305	4	1-Dec-21	30-Nov-22	425.24
Sun 10Gbps Dual Rate SFP+ SR		20775305	4	1-Dec-21	30-Nov-22	100.76
Sun Dual 10GbE SFP+ PCIe Low Profile Adapter		20775305	2	1-Dec-21	30-Nov-22	378.76
Sun Storage 6 Gb SAS-2 PCIe HBA, low profile: 16 port (for factory installation)		20775305	1	1-Dec-21	30-Nov-22	139.87
Storage ZS3-2 ATO Base Model		20775305	1	1-Dec-21	30-Nov-22	0.00
Oracle ZFS Storage ZS3-2: model family	1632NM200E	20775305	1	1-Dec-21	30-Nov-22	0.00
Cable: 3 meters, mini SAS to mini SAS HD (for factory installation)		20775305	4	1-Dec-21	30-Nov-22	89.22
One 1.6 TB 2.5-inch SAS SSD read flash accelerator with bracket (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	1,738.13
One 32GB DDR3-1066 registered DIMM (for factory installation)		20775305	16	1-Dec-21	30-Nov-22	2,266.46
Optical cable assembly: 10 meters, MT ferrule terminated, 12-fiber, multimode, MPO connectors (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	173.34
Oracle Dual Port QDR InfiniBand Adapter M3 (for factory installation)		20775305	1	1-Dec-21	30-Nov-22	328.35
Oracle ZFS Storage ZS3-2: controller		20775305	1	1-Dec-21	30-Nov-22	2,049.07
ASSY, ZS3-2, Base		20775305	1	1-Dec-21	30-Nov-22	0.00
Power cord: Sun Rack 2 jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)		20775305	2	1-Dec-21	30-Nov-22	10.32
QSFP parallel fiber optics short wave transceiver (for factory Installation)		20775305	4	1-Dec-21	30-Nov-22	425.24

Hardware Technical Support Services
Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Sun 10Gbps Dual Rate SFP+ SR		20775305	4	1-Dec-21	30-Nov-22	100.76
Sun Dual 10GbE SFP+ PCIe Low Profile Adapter		20775305	2	1-Dec-21	30-Nov-22	378.76
Sun Storage 6 Gb SAS-2 PCIe HBA, low profile: 16 port (for factory installation)		20775305	1	1-Dec-21	30-Nov-22	139.87

Hardware Technical Support Fees: USD 29,623.26

Hardware Technical Support Services
Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Installed At: JEA-T02 - 21 W Church St 2nd Fl JACKSONVILLE DUVAL FL 32202 United States						
Oracle ZFS Storage Appliance Replication - Integrated Software Option - per Management Controller Metric		23412637	2	8-Feb-22	30-Nov-22	1,926.84

Hardware Technical Support Fees: USD 1,926.84

Hardware Technical Support Services
Service Level: Oracle Premier Support for Systems

Product Description	Serial Number	CSI #	Qty	Start Date	End Date	Price
Installed At: JEA - SOCC 7720 Ramona Boulevard JACKSONVILLE DUVAL FL 32221 United States						
Sun Rack II 1242/1242E		20775305	1	1-Dec-21	30-Nov-22	127.58
Sun Rack II 1242/1242E	2047rtn-16339q0004	20775305	1	1-Dec-21	30-Nov-22	0.00
Jumper Cable Kit SunRack II		20775305	1	1-Dec-21	30-Nov-22	23.53
PDU 15kVA,3-Phase,4-Pin,LV		20775305	2	1-Dec-21	30-Nov-22	284.97
Sun Rack II 1242,Non-Conf Ship		20775305	1	1-Dec-21	30-Nov-22	127.58
RACK 42U-1200 W/LIGHT DUTY PAL		20775305	1	1-Dec-21	30-Nov-22	0.00

Hardware Technical Support Fees: USD 563.66

Total Price: USD 32,113.76

Plus applicable tax

NOTES

- If Oracle accepts Your renewal order, the start date set forth in the Service Details table above shall serve as the commencement date of the technical support services and the technical support

services ordered under this renewal order will be provided through the end date specified in the table for the applicable programs and/ or hardware ("Support Period").

- If any of the fields listed in the Service Details table above are blank, then such fields do not apply to Your renewal.

TECHNICAL SUPPORT SERVICES TERMS

If the Customer and the Customer Quote To name identified in the General Information table above are not the same, JEA represents that Customer has authorized JEA to execute this renewal order on the Customer's behalf and to bind the Customer to the terms contained in this renewal order. JEA agrees that the services ordered are for the sole benefit of Customer and shall only be used by Customer. JEA agrees to advise Customer of the terms of this renewal order as well as any communications received from Oracle regarding the services.

If the Customer and the Customer Bill To name identified in the General Information table above are not the same, Customer agrees that: a) Customer has the ultimate responsibility for payments under this renewal order; and b) any failure of JEA to make timely payment per the terms of this renewal order shall be deemed a breach by Customer and, in addition to any other remedies available to Oracle, Oracle may terminate Customer's technical support service under this renewal order.

Technical support is provided under Oracle's technical support policies in effect at the time the services are provided. The technical support policies are subject to change at Oracle's discretion; however, Oracle will not materially reduce the level of services provided for supported programs and/or hardware during the period for which fees for technical support have been paid, or for U.S. federal and public sector entities, the period for which services have been ordered. You should review the technical support policies prior to entering into this renewal order.

The current version of the technical support policies may be accessed at http://www.oracle.com/us/support/policies/index.html.

Regarding the inclusion of DFARS 252.204-7012, the parties agree that DFARS 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (OCT 2016), does not apply to the Commercial Off the Shelf (COTS) licenses or hardware, and does not apply to the associated technical support because Oracle will not process, collect, develop, receive, transmit, use, or store " covered defense information" on "covered contractor information systems" as defined in DFARS 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (OCT 2016), in performance of the associated technical support services ordered under this renewal quote, and the Government agrees that it will not provide "covered defense information" to Oracle in performance of the associated technical support services.

The technical support services renewed under this renewal order are governed by the terms and conditions of the SLSA-215070-18-MAY-95 ("agreement"). Any use of the programs and/or hardware, which includes updates and other materials provided or made available by Oracle as a part of technical support services, is subject to the rights granted for the programs and/or hardware set forth in the order in which the programs and/or hardware were acquired.

This renewal order incorporates the agreement by reference. In the event of inconsistencies between the terms contained in this renewal order and the agreement, this renewal order shall take precedence.

RENEWAL PROCESSING DETAILS

Please renew the technical support services on this renewal order on My Support Renewals.

If You are unable to renew using My Support Renewals, You can renew using the options below. Your renewal order is subject to Oracle's acceptance. Your renewal is considered complete when You provide Oracle with payment details for the renewal as detailed below or an executed Oracle Financing contract. Once completed, Your renewal cannot be cancelled and Your payment is nonrefundable, except as provided in the agreement. Oracle will issue an invoice to You upon receipt of a purchase order or a form of payment acceptable to Oracle. If You are U.S. federal government or public sector entity, Oracle will issue You an invoice quarterly in arrears after the services are performed.

Unless you are an U.S. federal government entity, Oracle's invoice includes applicable sales tax, GST, or VAT (collectively referred to as "tax"). If JEA is a tax exempt organization and is not an U.S. federal government entity, a copy of JEA's tax exemption certificate must be submitted with JEA's purchase order, credit card, or other acceptable form of payment.

Please note that unless You are a U.S. federal government or public sector entity, if the pre-tax value of this renewal is USD $2,000 or less, the technical support services ordered must be paid by credit card; or You must renew Your support on My Support Renewals.

Technical Support fees are invoiced Quarterly in Arrears. All fees payable to Oracle are due within 30 NET from date of invoice.

You agree to pay any sales, value-added or other similar taxes imposed by applicable law, except for taxes based on Oracle's income.

PAYMENT DETAILS

Purchase Order
If You are submitting a purchase order for the payment of the renewal of the technical support services on this renewal order, the purchase order must be in a non-editable format (e.g., PDF) and include the following information:

- Support Service Number: 11673862
- Total Price: USD 32,113.76 (excluding applicable tax)
- Local Tax, if applicable

In issuing a purchase order, JEA agrees that the terms of this renewal order and the agreement supersede the terms in the purchase order or any other non-Oracle document, and no terms included in any such purchase order or other non-Oracle document shall apply to the technical support services renewed under this renewal order.

Please contact Oracle per the General Information section above to issue Your purchase order.

Credit Card
If You wish to use a credit card to pay for the renewal of the technical support services on this renewal order, please contact Oracle per the General Information section above. Please note that Oracle is unable to process credit card transactions of USD $100,000 or greater or transactions that are not in USD.

Check
If You are submitting a check for the payment of the renewal of the technical support services on this

renewal order, the check must include the following information:

- Support Service Number: 11673862
- Total Price: USD 32,113.76 (excluding applicable tax)
- Local Tax, if applicable

In issuing a check, JEA agrees that only the terms of this renewal order and the agreement shall apply to the technical support services renewed under this renewal order. No terms attached or submitted with the check will apply.

Checks for technical support services renewed under this renewal order should be sent to:

Checks for technical support services renewed under this renewal order should be sent to:

AK, AZ, CA, HI, ID, NV, OR, UT, WA:

Oracle America, Inc
PO Box 44471
San Francisco, CA 94144-4471

All Other States:

Oracle America, Inc
PO Box 203448
Dallas, TX 75320-3448

Payment Confirmation
If You cannot pay using any of the payment methods described above, please complete this payment confirmation and submit it to Oracle. Please initial the following statement that best applies to You.

____ JEA does not issue purchase orders.
____ JEA does not require a purchase order for the services ordered hereto.

JEA certifies that the information provided above is accurate and complies with JEA's business practices in entering into this renewal order, including obtaining all necessary approvals to release the funds for this renewal. In issuing this payment confirmation, JEA agrees that the terms of this renewal order and the agreement shall apply to the technical support services ordered under this renewal order. No terms attached or submitted with the payment confirmation will apply.

The signature below affirms JEA's commitment to pay for the services ordered in accordance with the terms of this renewal order.

JEA

_____
Authorized Signature

_____
Name

_____
Title

_____
Signature Date

Please contact Oracle per the General Information section above to issue Your Payment Confirmation.