Indian River County Purchasing Division purchasing@ircgov.com



ADDENDUM NO. 2

Issue Date: September 4, 2020

Project Name: Interior Renovation of the Indian River County Building and

Fire Departments

Bid Number: 2020057

Bid Opening Date: September 23, 2020

This addendum is being released to modify the bid documents and answer a question received.

The information and documents contained in this addendum are hereby incorporated in the invitation to bid. This addendum must be acknowledged where indicated on the bid form, or the bid will be declared non-responsive.

Modifications to Bid Documents:

Bidders shall make the following modifications to the bid documents:

Replace Section 00310 with the attached Section 00310 – Addendum 2

Replace Sheets 1-E0-1 and 1-E2-1 with the attached revised sheets

Attachments:

Section 00310 – Addendum 2 Sheets 1-E0-1 and 1-E2-1

Questions and Answers

Could a lighting fixture schedule and specifications be provided for this project?
 See attached revised Sheets 1-E0-1 and 1-E2-1 addressing the light fixture schedule.

SECTION 00310 - Bid Form - Addendum 1

PROJ	IECT	IDENTII	FICAT	TION:
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Project Name:	Interior Renovation	n of the Indiar	n River County

Building and Fire Departments

Bid Number: 2020057 Project Address: 1801 27th Street

Vero Beach, FL 32960

Project Description: Complete interior renovation of the Building and Fire Department areas of the Community Development office, including expansion into the existing deli area. Modifications to provide better function and flow, add working space, security and employee protection. Demolition, new walls, ceilings, finishes and mechanical, electrical and plumbing work. Project will need to be conducted in phases in order to keep the office functions running during regular business hours and will require night and weekend work to facilitate phasing and continuity of operations.

THIS BID IS SUBMITTED TO:

INDIAN RIVER COUNTY 1800 27th Street VERO BEACH, FLORIDA 32960

- 1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.
- 2.01 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of OWNER.
- 3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:
- A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all which is hereby acknowledged.

Addendum Date	Addendum Number

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and (2) reports and drawings of a Hazardous Environmental Condition, if any, which have been identified in the Supplementary Conditions as provided in paragraph 4.06 of the General Conditions.
- E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.
- F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
- I. Bidder has given OWNER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by OWNER and ENGINEER is acceptable to Bidder.
- J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- **4.01** Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.
- **5.01** Bidder shall complete the Work in accordance with the Contract Documents for the price(s) contained in the Bid Schedule:
- A. The Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any

- column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.
- B. The Owner reserves the right to omit or add to the construction of any portion or portions of the work heretofore enumerated or shown on the plans. Furthermore, the Owner reserves the right to omit in its entirety any one or more items of the Contract without forfeiture of Contract or claims for loss of anticipated profits or any claims by the Contractor on account of such omissions.
- **6.01** Bidder agrees that the Work will be substantially completed and ready for final payment in accordance with paragraph 14.07.B of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- **6.02** Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified, which shall be stated in the Agreement.
- **7.01** The following documents are attached to and made a condition of this Bid:
 - A. Itemized Bid Schedule;
 - B. Required Bid security in the form of ;
 - C. Sworn Statement under Section 105.08, Indian River Code, on Disclosure of Relationships;
 - D. Qualifications Questionnaire;
 - E. List of Subcontractors;
 - F. Certification Regarding Prohibition Against Contracting with Scrutinized Companies

8.01 In accordance with all terms, conditions, specifications, and requirements, the Bidder offers the following (table replaced in addendum 1, items marked with * were added in addendum 2):

Portion of Work	Total Lump Sum Cost
Demolition	\$
Metals	\$
Wood and Plastics	\$
Thermal and Moisture Protection	\$
Doors and Windows	\$
Finishes	\$
Specialties	\$
Institutional Casework (Furnishings)	\$
*HVAC	\$
*Electrical	\$

Portion of Work	Total Lump Sum Cost
*Plumbing	\$
*Fire Alarm	\$
Total bid price for all work to complete project as specified	\$

Total Bid Price in Words

9.01 The terms used in this Bid with initial capital letters have the Instructions to Bidders, the General Conditions, and the Supplementary	•
SUBMITTED on, 20	
State Contractor License No.	
If Bidder is:	
An Individual Name (typed or printed):	_
By:(Individual's signature) Doing business as: Business address:	
Phone No.: FAX No.: Email:	-

A Partnership Partnership Name:		_ (SEAL)
By: (Signature of general partner attach	h ovidence of authority to sign	<u></u>
(Signature of general partner attacr	revidence of authority to sign	1)
Name (typed or printed):		_
Business address:		
Phone No.:	FAX No :	-
Email:		
A Corporation		(0541)
Corporation Name:		_ (SEAL)
State of Incorporation:		
Type (General Business, Professional, Se	ervice, Limited Liability)	
Ву:		
By:	to sign)	
Name (typed or printed):		_
Title:		
1100.		(CORPORATE SEAL)
Attest		,
(Signature of Corporate Secretary)		
Business address:		
		<u></u>
Phone No.:		
Email:		
Date of Qualification to do business is		
Date of Qualification to do business is		 ·
A Joint Venture		
Joint Venture Name:		_ (SEAL)
Dec		
By: (Signature of joint venture partner a	attach evidence of authority to	n sian)
(Signature of John Venture partiter a	mach evidence of authority to) sigil)
Name (typed or printed):		_
Title:		
	-	
Business address:		
Dhone No :	FAV No.	_
Phone No.: Email:		

00310 - Bid Form - Addendum 2

	(SEAL)
By:(Signature attach evidence of authority to sign)	_
(Signature attach evidence of authority to sign)	
Name (typed or printed):	
Title:	
Business address:	
Phone No.: FAX No.:	
Email:	

(Each joint venturor must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

* * END OF SECTION * *



ADDENDUM #2

PROJECT NAME: IRC Administration Complex

Building & Fire Departments Renovations

PROJECT # 2019-48

DATE: September 04, 2020

PREPARED BY: Haydn K. Curtis, R.I.B.A., ARB

THIS ADDENDUM SHALL BE CONSIDERED PART OT THE CONTRACT DOCUMENTS FOR THE ABOVE-MENTIONED PROJECT AS THOUGH IT HAS BEEN ISSUED AT THE TIME AND INCORPORATED INTEGRALLY THEREWITH. WHERE PROVISIONS OF THE FOLLOWING SUPPLEMENTARY DATE DIFFER FROM THOSE OF THE ORIGINAL CONTRACT DOCUMENTS, THIS ADDENDUM SHALL GOVERN AND TAKE PRECEDENCE.

BIDDERS ARE HEREBY NOTIFIED THAT THEY SHALL MAKE ANY ADJUSTMENTS IN THEIR ESTIMATE ON ACCOUNT OF THIS ADDENDUM. IT WILL BE CONSTRUED THAT EACH BIDDER'S PROPOSAL IS SUBMITTED WITH FULL KNOWLEDGE OF ALL MODIFICATIONS AND SUPPLEMENTAL DATE HEREIN.

ADDENDUM #2

Request for information received on 09/03/2020:

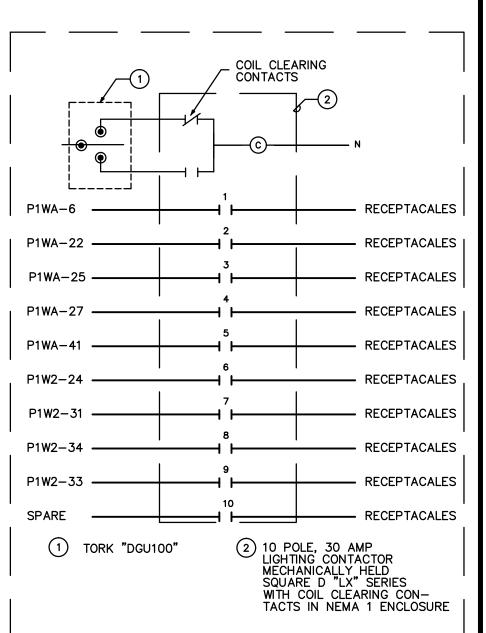
1. Could a lighting fixture schedule and specifications be provided?

Response: See attached revised Sheets 1-E0-1 and 1-E2-1 addressing the light fixture schedule.

END OF ADDENDUM #2







CONTACTOR "RC-1"

SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL "PIWA" 225 AMP / 3 POLE MAIN CIRCUIT BREAKER VOLTAGE: 208/120V, 3ø, 4 WIRE SPEC: MOUNTING: EXISTING WIRE GND. COND. TRIP CKT. A PHASE B PHASE C PHASE CKT. TRIP COND. GND. WIRE DESCRIPTION KVA KVA KVA - - 20 1 0.7 1.0 — 2 20 1/2" #12 #12 MODULAR FURNITURE - - - 20 3 — 1.4 1.0 — 4 20 1/2" #12 #12 MODULAR FURNITURE - - - 20 5 — 2.1 1.0 6 20 1/2" #12 #12 MODULAR FURNITURE ISTING RECEPTACLE ISTING RECEPTACLE - - - 20 5 — 2.1 1.0 6 20 1/2 #12 #12 MODULAR FURNITURE - - - 20 7 2.1 1.4 — 8 20 - - EXISTING RECEPTACLES - - - 20 9 — 0.4 0.7 — 10 20 - - EXISTING RECEPTACLES - - - 20 11 — 0.7 0.2 12 20 - - EXISTING EF-1-1-1 - - - 20 13 1.8 0.8 — 14 20 - - EXISTING EF-1-1-2 - - - 20 15 — 0.7 0.8 — 16 20 - - EXISTING LIGHTING - - - 20 17 — 2.1 0.7 18 20 - - EXISTING LIGHTING ISTING RECEPTACLES ISTING RECEPTACLE ISTING RECEPTACLES ISTING RECEPTACLES ISTING RECEPTACLE - - 20 17 - 21 0.7 18 20 - - EXISTING LIGHTING - - - 20 19 2.1 0.8 - 20 20 - - EXISTING LIGHTING #12 #12 1/2" 20 21 - 1.0 0.8 - 22 20 - - EXISTING LIGHTING #12 #12 1/2" 20 23 - - 1.0 0.9 24 20 - - EXISTING LIGHTING #12 #12 1/2" 20 25 1.0 0.8 - 26 20 - - EXISTING LIGHTING #12 #12 1/2" 20 25 1.0 0.8 - 26 20 - - EXISTING LIGHTING - - - 20 27 - - - 28 20 - - EXISTING LIGHTING - - - 20 29 - - 0.7 0.8 30 20 - - EXISTING LIGHTING - - - 20 31 0.8 0.8 - 32 20 - - EXISTING LIGHTING - - - 20 33 - 0.8 0.2 - 52 20 - - EXISTING LIGHTING - - - 20 33 - 0.8 0.2 - 52 EXISTING LIGHTING - - - 20 35 - - 20 8 1.0 36 20 1/2" #12 #12 MODULAR FURNITURE - - - 20 37 0.7 1.0 - 38 20 1/2" #12 #12 MODULAR FURNITURE - - - 20 39 - 1.4 1.0 - 40 20 1/2" #12 #12 MODULAR FURNITURE #12 #12 1/2" 20 41 - - SPARE 15.8 10.2 13.4 KVA PER PHASE 131.6 85.0 11.6 AMPS PER PHASE 131.6 AMPS PER PHASE XISTING RECEPTACLES STING RECEPTACLES ECEPTION REC SPECTION DESK REC FFICE RECEPTACLE STING RECEPTACLES STING RECEPTACLES XISTING RECEPTACLES EXISTING RECEPTACLES WAITING RECEPTACLES

SCHEDUL	SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL "P1W2"														
• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·														
SPEC: EXISTING MOUNTING: EXISTING											AIC S	YMM: I	EXISTIN	G	
DESCRIPTION	WIRE	GND.	COND.	TRIP	СКТ.	A PHASE KVA	B PHASE KVA	C PHASE KVA	скт.	TRIP	COND.	GND.	WIRE	DESCRIPTION	
EXISTING REC	-	-	-	20	1	1.0 -			2	20	_	_	-	SPARE	
EXISTING REC	_	_	_	20	3		1.0 1.0		4	20	_	_	_	EXISTING COPIER	
EXISTING REC	_	_	_	20	5			1.0 -	6	20	_	_	_	SPARE	
EXISTING REC	-	_	_	20	7	1.0 –			8	20	_	_	_	SPARE	
EXISTING REC	_	_	_	20	9		1.0 -		10	20	_	_	_	SPARE	
EXISTING REC	_	_	_	20	11			1.0 -	12	20	_	_	_	SPARE	
SPARE	-	_	-	20	13				14	20	_	_	-	SPARE	
SPARE	-	_		20	15				16	20	_	_	_	SPARE	
SPARE	_	_		20	17			- -	18	20	_	_	_	SPARE	
SPARE	_	_		20	19	-			20	20	_	_	_	SPARE	
SPARE	-	_	-	20	21		- 1.0		22	20	1/2"	#12	#12	MODULAR FURNITURE	
SPARE	_	_		20	23			- 1.0	24	20	1/2"	#12	#12	MODULAR FURNITURE	
KISOK	#12	#12	1/2"	20	25	1.0 1.0			26	V 20	3/4"	#12	2#12	COPIER DOCUMENT CENTER	
KISOK	#12	#12	1/2"	20	27		1.0 1.0		28	2	·		"		
SPARE	<u>"</u> –		–	20	29			- 2.8	30	3 0	3/4"	#10	2#10	IWH	
POED REC	#12	#12	1/2"	20	31	1.0 2.8			32	2	·		"		
CONF RM REC	#12	#12	1/2"	20	33		1.2 1.0		34	20	1/2"	#12	#12	MODULAR FURNITURE	
REF	#12	#12	1/2"	20	35			1.0 1.0	36	20	1/2"	#12	#12	MODULAR FURNITURE	
BREAK RM REC	#12	#12	1/2"	20	37	1.0 1.0			38	20	1/2"	#12	#12	MODULAR FURNITURE	
BREAK RM REC	#12	#12	1/2"	20	39		1.0 -		40	20				SPARE	
SPARE	<u>"</u> –		<u> </u>	20	41			- -	42	20	_	_	_	SPARE	
						8.4	8.2	7.4	KVA	PER F	PHASE			*	
						70.0	70.2	61.6	AMF	S PER	PHASE				
							24.0		TOT	AL KVA	١				
													•		

SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL "LCP1"														
IAIN: 60 AMP / 3 POLE MAIN CIRCUIT BREAKER VOLTAGE: 208/120V, 3ø, 4 WIRE														
SPEC: EXISTING MOUNTING: EXISTING AIC SYMM: EXISTING														
DESCRIPTION	WIRE	GND.	COND.	TRIP	СКТ.	A PHASE KVA	B PHASE KVA	C PHASE KVA	скт.	TRIP	COND.	GND.	WIRE	DESCRIPTION
EXISTING RECEPTACLES	-	_		20	1	1.0 1.0			2	20	- 1	_	_	EXISTING RECEPTACLES
EXISTING RECEPTACLES	_	-	_	20	3		1.0 1.0		4	20	- 1	_	_	EXISTING RECEPTACLES
EXISTING RECEPTACLES	_	_	_	20	5			1.0 1.0	6	20	-	_	-	EXISTING RECEPTACLES
EXISTING RECEPTACLES	_	_	- 1	20	7	1.0 1.0			8	20	- 1	-	-	EXISTING RECEPTACLES
EXISTING RECEPTACLES	_	_	_	20	9		1.0 -		10	20	-	-	-	SPARE
CONFERENCE ROOM RECEPTACLES	#12	#12	1/2"	20	11			0.4 –	12	20	_	-	-	SPARE
						4.0	3.0	2.4	KVA	PER F	PHASE			
						66.6	25.0	20.0	AMP	S PER	PHASE	·		
							9.4		TOT	AL KVA	١			

			LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER	URER CATALOG NUMBER	DESCRIPTION	LAM	PS	DIMMING	VOL TS	s MOUNTING	REMARKS	
	MANOFACTORER	GATALOG NOMBLIK	BESSIAL HOL	Qty	Type Total Wattage		Billillill	102.10		TEMPATO
А	TRULY GREEN SOLUTIONS	EA-P-22-C-U-D	2X2 LED LUMEN AND CCT SELECTABLE FLAT PANEL	INCL	LED	30	0-10V	UNV	RECESSED	1
A1	TRULY GREEN SOLUTIONS	EA-P-22-C-U-D-EM	2X2 LED LUMEN AND CCT SELECTABLE FLAT PANEL WITH EM	INCL	LED	30	0-10V	UNV	RECESSED	1
В	TRULY GREEN SOLUTIONS	EA-P-24-C-U-D	2X4 LED LUMEN AND CCT SELECTABLE FLAT PANEL	INCL	LED	40	0-10V	UNV	RECESSED	1
B1	TRULY GREEN SOLUTIONS	EA-P-24-C-U-D-EM	2X4 LED LUMEN AND CCT SELECTABLE FLAT PANEL WITH EM	INCL	LED	40	0-10V	UNV	RECESSED	1
С	INTENSE LIGHTING	SS6G4DR-L3-358-I100-IC630C-SF	6" ROUND LED DOWNLIGHT	INCL	LED	17	0-10V	UNV	RECESSED	1
C1	INTENSE LIGHTING	SS6G4DR-L3-358-EM7T-I100-IC630C-SF-EM7T	6" ROUND LED DOWNLIGHT WITH EM & INTEGRAL TEST SWITCH	INCL	LED	17	0-10V	UNV	RECESSED	1
EX	BEGHELLI	PX-R-SA	LED EXIT WITH EM	INCL	LED	3	N/A	UNV	SURFACE	1

. PROVIDE SUBMITTALS FOR ARCHITECT/ENGINEER REVIEW PRIOR TO ORDERING.

		LIGHTIN	IG CC	DE CC	MPLIAN	CE CAL	CULATIO	NS
	ROOM NAME		NUMBER OF FIXTURES		INPUT WATTS PER FIXTURE	TOTAL DESIGNED WATTS	ALLOWED LIGHTING POWER DENSITY	TOTAL ALLOWED WATTS
	OFFICE	9200	75	A	30	2250	0.9	8280
			57	B	41.4	2360		
			35	C	23	805		I
	TOTALS	9200	_			5415		8280
			·					

ELECTRICAL SPECIFICATIONS

<u> PART 1 – GENERAL</u>

- A. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED.
 CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS.
 IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY
 THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND
 SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ARCHITECT/ENGINEER HAS DIRECTED
 CORRECTIVE ACTION TO BE TAKEN.
- B. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION) AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE UTILIZED IN THIS PROJECT.
 - 1. NATIONAL ELECTRICAL CODE (NFPA-70)
 - CODE FOR SAFETY TO LIFE (NFPA_101)
 STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72)
 - 4. UNDERWRITERS' LABORATORIES (UL)
 - 5. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 FEDERAL SPECIFICATION (FED. SPEC.)
 - 8. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
 - 9. FLORIDA BUILDING CODE. FBC 2017 EDITION
 10. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
 - 11. CITY OF BOYNTON BEACH BUILDING CODE. (AMENDMENTS TO FLORIDA BUILDING CODE FBC 2017)
 12. ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE
- OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA)

 D. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS
- FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.

 IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE
 CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM
- AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

 F. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- G. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED
- THERE BY.

 H. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL MEAN THAT
- THE CONTRACTOR IS TO FURNISH, INSTALL AND CONNECT COMPLETE.
- A. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. (EXCEPT AS NOTED OTHERWISE FOR CONTROL WIRING). ALL CONDUCTORS SHALL BE 98% CONDUCTIVITY, COPPER WITH "THHN-THWN" INSULATION UNLESS OTHERWISE
- NOTED.

 B. ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF BEST QUALITY STEEL, SMOOTH INSIDE AND OUT AND SHALL BE HOT-DIPPED GALVANIZED.
- C. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS

 I. IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- I. IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
 D. RIGID NONMETALIC CONDUIT SHALL BE SCHEDULE 40 PVC.
- E: ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE. F. PANELBOARDS:
 - CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER.
 ALL CIRCUIT BREAKERS SHALL BE BOLT ON. PLUG-IN BREAKERS ARE NOT ACCEPTABLE.
 CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL
 - BE LISTED AND MARKED "SWD"

 4. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
 - A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES.
 ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4"
 - ENGRAVED LETTERING FOR PANEL IDENTIFICATION.

 7. ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE—WRITTEN DIRECTORY OF BRANCH CIRCUIT
- DESIGNATIONS.

 G. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK. ENCLOSURES
- SHALL BE NEMA-1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONSOR AS OTHERWISE NOTED.

 H. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED ON THE ELECTRICAL DRAWINGS, WITH

 OVERLOAD RELAYS IN EACH PHASE.
- WRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) COLOR SHALL BE COORDINATED WITH CLIENT

PART 3 - EXECUTION

- A. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:
 - 208/120 VOLTS, 3 PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BLACK, 1 RED AND 1 BLUE. GROUNDED (NEUTRAL) CONDUCTOR; WHITE. GROUNDING CONDUCTORS SHALL BE GREEN.
 480/277 VOLT, 3-PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BROWN, 1 YELLOW, AND 1 PURPLE. GROUNDED (NEUTRAL) CONDUCTORS; GREY. GROUNDING CONDUCTORS SHALL BE GREEN.
 - 3. BRANCH CIRCUIT WIRING (#6 AND SMALLER) SHALL BE COLOR CODED BY CONTINUOUS INSULATION COLOR AND FEEDERS AND SERVICES (#4 AND LARGER) SHALL BE CODED AT ALL JUNCTION OR PULL POINTS (EXCEPT LB'S OR LBD'S) USING COLOR MARKERS OR PLASTIC TAPE MANUFACTURED FOR THE PURPOSE.
- B. WRING METHODS

 1. ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS
 OTHERWISE NOTED, SPECIFIED OR AS SPECIFICALLY PROHIBITED BY THE AUTHORITY HAVING
 JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL
 RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE.
 - SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE.
 TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED
- USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALE
 IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING
 JURISDICTION.

 C. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST
- EDITION OF THE N.E.C. AND LOCAL CODES.

 D. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS
 WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY
- ENGINEER/ARCHITECT.

 E. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS
- OF CONSTRUCTION.
 F. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE
- COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK.

 G. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING DEVICES, FOR ALL OUTLETS AS INDICATED.
- H. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF NEC, NEMA, AND IECE.
- FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.
 K. ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER.
 L. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL
- M. ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING

- N. THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION.

 ANY CONFLICTS AND DESCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE
- O. PROCEEDING WITH ANY WORK.
 PER NEC 210.8(B)(2) ALL 15— AND 20—AMPERE, 125—VOLT RECEPTACLES IN NONDWELLING—TYPE KITCHENS
 TO BE GFCI PROTECTED.

P.BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% DESIGN LOAD. FBC 2017 FBC ENERGY CONSERVATION SECTION 405.7.3.

Q. FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM OF 2% VOLTAGE DROP PER 405.7.3.

ELECTRICAL SHEET INDEX

E0.1	ELECTRICAL NOTES, LEGEND & INDEX
E2.1	LIGHTING PLAN
E3.1	POWER PLAN

ELECTRICAL LEGEND

- TELEPHONE OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNTED ABOVE COUNTER, SEE ARCHITECTURAL DRAWING FOR SPECIFIC REQUIREMENTS.
- TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT RUN TO THE NEAREST STUD WALL AND STUBBED OUT FROM WALL 6" ABOVE CEILING. PROVIDE BRASS COVER PLATE AND
- TELEVISION OUTLET WITH 1-1/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- 20 AMP SINGLE RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
- 20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
- OF OUTLET UNLESS NOTED OTHERWISE.

 OF OUTLET UNLESS NOTED OTHERWISE.

 OF OUTLET UNLESS NOTED OTHERWISE.
- MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET. UNLESS NOTED OTHERWISE.

 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED ABOVE COUNTER
- SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18" A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.

 20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18"
- A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.

 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), RECESS FLOOR MOUNTED. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), CEILING MOUNTED.
- SPECIAL-PURPOSE RECEPTACLE
- JUNCTION BOX
- SINGLE GANG JUNCTION BOX FOR POWER CONNECTION TO MODULAR FURNITURE SYSTEM INSTALL IN EXACT MANNER AS DIRECTED BY FURNITURE SUPPLIER.
- DOUBLE GANG JUNCTION BOX FOR TELEPHONE/DATA CONNECTION TO MODULAR FURNITURE SYSTEM. INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER. EXTEND (2) 3/4" EMPTY CONDUITS FROM JUNCTION BOX TO ABOVE CEILING AND TERMINATE WITH INSULATING BUSHING 6" FROM WALL.
- TELE/POWER POLE FOR TELEPHONE/DATA/POWER CONNECTION TO MODULAR FURNITURE 8 WIRE SYSTEM (SEE DETAIL THIS SHEET). INSTALL IN EXACT MANNER AND LOCATION
- AS DIRECTED BY FURNITURE SUPPLIER, WIREMOLD CATALOG # 25DTP-4D W/IVORY FINISH.

 SPECIAL PURPOSE RECEPTACLE MOUNTED BELOW RAISE FLOOR.
- EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS.
- SINGLE POLE, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS
- OTHERWISE NOTED.

 \$ 3-WAY, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS
- OTHERWISE NOTED.
- $\$_{\text{D}}$ Single pole, 20 AMP, switch with dimmer. Mount 46" A.F.F. to centerline of switch unless otherwise noted.
- $\$_{\mathsf{M}}$ motor rated switch
- VACANCY SENSOR SWITCH, WATTSTOPPER, MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
- \$ TWO POLE, 30 AMP SWITCH. MOUNT ADJACENT EQUIPMENT TO BE CONTROLLED.
- FACTORY MOUNTED DISCONNECT/STARTER (SEE MECHANICAL SCHEDULE)
- $A \stackrel{B}{C}$ FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING
- Arr Fusible motor starter disconnect switch A = POLES, B = NEMA size, C = FUSE rating
 - GROUNDING ELECTRODE & CONDUCTOR SYSTEM
- TRANSFORMER
- ELECTRICAL PANELBOARD
- OTELEPHONE WOOD BACKBOARD
- WP WEATHERPROOF
- C TIME CLOCK
- RE RELOCATED
- E EXISTING TO REMAIN
- A.F.F. ABOVE FINISH FLOOR
- © CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.
- CEILING MOUNTED LOW VOLTAGE DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.
- CARD ACCESS. COORDINATE WITH TENANT.

Project:
INDIAN RIVER COUNTY
ADMINISTRATION
COMPLEX
ALTERATIONS
TO BUILDING 'A'
FOR
BUILDING / FIRE
DEPARTMENTS

1801 27th STREET
VERO BEACH FLORIDA 32960

Key Plan

 Issues:

 No.:
 Date:
 Description:

 1.
 08/19/20
 Bid Set

 2.
 09/04/20
 Addendum #2
 1



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ELECTRICAL NOTES



Drn:

JEM
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Plot File:

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