

TO:

☐ CORPORATE OFFICE

3390 TRAVIS POINTE RD, SUITE A

ANN ARBOR, MI 48108

(313) 996-9500, FAX: (313) 996-8480

PROPOSAL

General Services Contract

□ REGIONAL OFFICE	
5509 5th Ave #3	
Key West, FL 33040	

(305) 292-7889 - FAX: (305) 292-7717

City of Key West	
P.O. Box 1409	JOB NAME: VFD FP-3-1 KW Sewer Plant
Key West, FL 33040	
Attn. John Paul Castro	DATE: January 16, 2020

Demo & remove existing VFD&VFD Tranformer, install new VFD & VFD Tranformer(owner supplied) and provide and install new FP-3-1 control panel with cabinet.

QUANTITY	UNIT	DESCRIPTION		PRICE	- 1	AMOUNT
50	HR	Superintendent	\$	95.00	\$	4,750.00
617	HR	Electrician Plus 5% markup	\$		\$	59,114.77
1	LS	Material, wire, conduit, hanger, fasters and misc cost plus 5 %		31,904.25		31,904.25
1	LS	FP-3-1 Control Panel Plus 15% Markup		132,957.25		132,957.25
1 :	LS	Instrument & Control Technician Submittal work and review Plus 5%	\$	1,785.00	\$	1,785.00
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		Subtotal - Cost of Construction	T		\$	230,511.27
		Bond \$18.00 Per \$1,000.00	_		\$	4,356.65
		Subtotal - Cost of Construction			\$	234,867.92
		GCs, Mobilization / Demobilization and MOT at 5%			\$	11,743.40
		TOTAL PRICE			\$	246,611.32

Owner: City Of Key West

Project: Install Owner Provided VFD Project Address: Fleming Key WWTP

Job #191034 Confidential

Scope of Work

January 15, 2020

To all concerned,

We are pleased to offer you our proposal for the electrical work required at the Fleming Key WWTP in Key West Florida. All work performed by Nearshore Electric, Inc. shall conform to current codes, regulations, and project specifications. All work performed by Nearshore Electric, Inc. shall be warranted for a period of one year. The following breakdown describes the items and services that Nearshore Electric, Inc. shall provide as well as any exclusion from our scope of work.

INCLUDED IN BID:

Owner Furnished VFD

- Remove existing 1336 Plus Allen Bradley VFD
- Re-route existing controls to distribution side of existing VFD
- Install new owner provided Allen Bradley Power Flex 755 VFD
- Remove existing isolation transformer and conduits
- Extend house-keeping slab
- Install new owner provided transformer and disconnect
- Install new conduit/wire from transformer to VFD
- Program parameters and assist in VFD commissioning
- Workers Comp/General Liability Insurance
- Taxes
- Warranty

New FP3-1 PLC Cabinet

- Install house-keeping slab for new PLC cabinet
- Install new PLC cabinet next to existing PLC cabinet
- Install conduit/wire from new PLC to existing VFD
- Install conduit/wire from new PLC to new VFD
- Install conduit/wire from new PLC to existing FP12-1 control cabinet
- Install conduit/wire from new PLC to existing panel LE for power
- Install conduit/wire from new PLC to existing FP2-1 for communication and network
- Install wire in existing conduit and duct bank to FP13-1 and FP13-2 to new PLC

EXCLUDED FROM BID:

- Permit fees
- FP3-1 control panel
- VFD equipment (supplied by owner)
- Any Scope of work not clearly shown on drawings or within the bid documents and/or specifications is not included in this proposal.

Labor Cost		00	95.81
1 1	al and labor, complete in accordance Hundred Eighty Six Pollars and	1	
Authorized Signature	Jeffery L Kirk ~ President	Date <u>1/15/2020</u>	

61,25



C. C. CONTROL CORP.

5760 CORPORATE WAY SUITE 100 WEST PALM BEACH, FLORIDA 33407

> PHONE: 561-293-3975 FAX: 561-293-3976

CUSTOMER:

DOUGLAS N. HIGGINS, INC.

ATTN:

PAUL WATERS

PROJECT:

EFF PUMP FP-3-1 CONTROL & VFD REPLACEMENT

CITY OF KEY WEST

DATE: 1/8/2020

DESCRIPTION

QUAN

C. C. CONTROL CORP. PROPOSES TO FURNISH THE FOLLOWING SECTIONS COMPLETE WITH EXCEPTIONS AS LISTED:

SECTION 40 90 01 - INSTRUMENTATION AND CONTROL FOR PROCESS SYSTEMS

EXCEPTIONS:

- A) QUOTE DOES NOT INCLUDE CONDUIT SYSTEM.
- B) QUOTE DOES NOT INCLUDE WIRE/CABLE.
- C) QUOTE DOES NOT INCLUDE INSTALLATION
- D) QUOTE DOES NOT INCLUDE FIELD TERMINATIONS.
- E) QUOTE DOES NOT INCLUDE ANY PANEL MTG. RACKS
- F) QUOTE DOES NOT INCLUDE ANY ELEC. OR PNEUMATIC OP. VALVES.
- QUOTE DOES NOT INCLUDE SOLENOIDS. G)
- H) QUOTE DOES NOT INCLUDE ANY PIPE TAPS OR PIPE SADDLES.
- QUOTE DOES NOT INCLUDE ANY PANEL OR J-BOX MOUNTING 1) **HARDWARE**
- QUOTE DOES NOT INCLUDE JUNCTION OR TERMINATION BOXES
- QUOTE DOES NOT INCLUDE VFD INSTALLATION. TESTING OR START-UP

ITEM NO. 1

EFFLUENT PUMP PLC CONTROL PANEL FP-3-1 SCHAEFER'S SPN12D-726024 NEMA 12 STEEL FREESTANDING DOUBLE DOOR ENCLOSURE WITH THE FOLLOWING: A) SIZE: 72"H X 60"W X 24"D B) REMOVABLE LIFTING EYES C) 3PT. KEYLOCKING HANDLE D) INTERNAL LIGHT BRACKET E) SUBPANEL: SP-72P60F1 1 F) STUDS FOR DOOR SWITCH G) PRINT POCKET H) INTERNAL FOLDING SHELF HOFFMAN AHCI10E CORROSION INHIBITOR 2 SQD 9007 AP221 DOOR SWITCH 1 EDCO HSP-121A 15A 120VAC LINE SURGE ARRESTER 1 PROGRESS ENERGY P7008-30 36" FLUORESCENT FIXTURE 1 HUBBELL CS120-I SINGLE 20A TOGGLE SWITCH HUBBELL SS1 S.S.SINGLE TOGGLE SW. PLATE HUBBELL GF15ILA GFI DUPLEX 15A RECEPT. 1 HUBBELL SS26 S.S. DUPLEX GFI PLATE SQD QOU130 120V 30A 1P CIRCUIT BREAKERS 2 SQD QOU115 120V 15A 1P CIRCUIT BREAKERS 4 HUBBELL HBL2610 L5-30R 30A RECEPTACLE 2

HUBBELL SS7 S.S. SINGLE RECEPT. PLATE FALCON SG3K-1T ON-LINE UPS, 3000VA, 120VAC FALCON MB3K-1 EXTERNAL MAINTENANCE BY-PASS FALCON UA88376-SSG-HW DRY RELAY CONTACT CLOSURE CARD CUSTOM UPS CABLE CUSTOM UPS SHELF >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	2 2 2 2 2 2 2
ALLEN BRADLEY 1756-A13 13 SLOT CONTROLLOGIX CHASSIS ALLEN BRADLEY 1756-PA75 POWER SUPPLY ALLEN BRADLEY 1756-L71 PROCESSOR	1 1 1
ALLEN BRADLEY 1756-EN2T ETHERNET COMMUNICATION MODULE ALLEN BRADLEY 1756-IA16 16 POINT 120VAC DISCRETE INPUT MODULE ALLEN BRADLEY 1756-OW16I 16 POINT RELAY OUTPUT MODULE ALLEN BRADLEY 1756-IF8I ANALOG INPUT 8CH., INDIVIDUALLY ISOLATED ALLEN BRADLEY 1756-OF8I ANALOG OUTPUT 8CH., INDIVIDUALLY ISOLATED ALLEN BRADLEY 1756-TBCH WIRING ARM, 36-POINT ALLEN BRADLEY 1756-TBNH WIRING ARM, 20-POINT ALLEN BRADLEY 1756-N2 EMPTY SLOT COVER >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	1 3 1 3 1 2 8 3
PANEL MOUNT OIT ALLEN-BRADLEY 2711P-T10C22A9P-B PANELVIEW PLUS HMI ALLEN-BRADLEY 1784-SD2 2GB SD MEMORY CARD	1
ALLEN BRADLEY 1783-MS06T STRATIX 8000 6 PORT ENET SWITCH ALLEN BRADLEY 1783-SFP100FX 100BASE SFP FIBER MODULE FIS F1-EW12BLK 12 PORT WALL MOUNT FIBER OPTIC PATCH PANEL FIS F1-LC6DBKMUL MULTIMODE LC LOADED PLATE ETHERNET COPPER JUMPER CABLES ETHERNET FIBER JUMPER CABLE FINDER 60.13.8.120.0040 120VAC 3PDT PLUG-IN RELAY FINDER 90.03 11-PIN RELAY SOCKETS	>>>>> 1 2 1 2 2 2 2 17 17
EDCO PC642C-036-X DUAL SIGNAL SURGE PROTECTOR W/ SOCKET PHOENIX CONTACT 3044102 UT4 TERMINAL BLOCK PHOENIX CONTACT 3047248 END COVER, YELLOW PHOENIX CONTACT 3047248 END COVER, YELLOW PHOENIX CONTACT 304728 D-UT 2,5/10 END COVER PHOENIX CONTACT 304728 D-UT 2,5/10 END COVER PHOENIX CONTACT 3044814 UTTB 4 DOUBLE-LEVEL TERMINAL BLOCK PHOENIX CONTACT 3047293 END COVER, UTTB TERMINAL, GRAY PHOENIX CONTACT 3047303 SPACER PLATE, UTTB TERMINAL PHOENIX CONTACT 3032224 FBS 50-6, 50-POSITION PLUG-IN BRIDGE, 6.2mm PITCH PHOENIX CONTACT 3032224 FBS 50-6, 50-POSITION PLUG-IN BRIDGE, 6.2mm PITCH PHOENIX CONTACT 3214259 UT 2.5-3L TRIPLE LEVEL FEED THRU TERMINAL, GRAY PHOENIX CONTACT 3038930 FBS 50-5, 50-POSITION PLUG-IN BRIDGE, 5.2mm PITCH PHOENIX CONTACT 1201413 E/UK 1 HIGH END STOP PHOENIX CONTACT PREPRINTED TERMINAL MARKERS DINRAIL SUPPORT BRACKETS PANDUIT UGB2/0-414-12 GROUND BAR KIT PANDUIT UGB2/0-414-12 GROUND BAR KIT PANDUIT CLMAR2/0-14-Q 2/0 LUG PANDUIT PAN-LUG COPPER LUG WIRE, DUCT & NAMEPLATES UL 508A LABEL	17 12 10 2 10 2 16 1 1 24 1 1 8 LOT 8 1 1 1 1 LOT LOT
ITEM NO. 2 EFFLUENT PUMP NETWORK TBJ-1 PANDUIT IAZ2424C INDUSTRIAL ETHERNET ENCLOSURE WITH THE FOLLOWING:	1
A) SIZE: 24"H X 24"W X 12"D B) (2) 16.7" LONG DIN RAILS C) (2) DIN RAIL MOUNT 8-PORT PATCH MODULES D) (8) COPPER PORTS AND CAT6 PATCH CABLES E) (1) FIBER PATCH MODULE W/ (2) LC ADAPTER MODULES AND (2) LC PATCH CORDS ALLEN-BRADLEY 1783-BMS06SL STRATIX 5700 ETHERNET SWITCH WITH THE FOLLOWING: A) (4) 100BASE-T COPPER & (2) 100BASE-FX SFP PORTS	1

ALLEN BRADLEY 1783-SFP100FX 100BASE SFP FIBER MODULE ALLEN-BRADLEY 1606-XLP15E 24VDC POWER SUPPLY ALLEN-BRADLEY 1606-XLS240-UPS 240W UPS ALLEN-BRADLEY 1606-XLSBATASSY1 7.5AH BATTERY ASSEMBLY WITH MOUNTING BKRT WIRE, DUCT & NAMEPLATES	2 1 1 1 LOT
ITEM NO. 3 CATEGORY 6 ETHERNET COPPER CABLE AND CONNECTORS CAT6 SHIELDED RISER RATED BULK CABLE BLACK BOX EZ-RJ45 MODULAR PLUGS	500 1
ITEM NO. 4 SPARE PARTS FALCON BA04315 UPS REPLACEMENT BATTERY, (8) REQUIRED PER UPS ITEM NO.5	32
PROJECT SERVICES ENGINEERING SUBMITTALS EFFLUENT PUMP PLC CONTROL PANEL PROGRAMMING MODIFICATIONS TO EXISTING FACTORYTALK SE HMI MODIFICATIONS TO EXISTING HISTORIAN CONFIGURATION OF NEW NETWORK SWITCH IN TBJ-1	LOT LOT LOT LOT LOT
PREPARATION OF NEW NETWORK SWITCH IN 185-1 PREPARATION AND ATTENDANCE OF HMI AND PLC DESIGN MEETINGS START-UP TRAINING O & M MANUALS WARRANTY, 1-YEAR	LOT LOT LOT LOT LOT

SELL:

FOB:

TERMS:

\$109,000.00 + TAX

IF APPLICABLE

NET 30 DAYS

(SUBJECT TO CREDIT APPROVAL)

6540.00 6070 TAX 75.00 MONTOR CO TAX

115,615.00

WARRANTY: ALL WARRANTIES SHALL EXPIRE ONE (1) YEAR FROM DATE OF START-UP

FROM SELLER TO BUYER UNLESS SPECIALLY INDICATED OTHERWISE AND WILL BE NULL AND VOID UNLESS MATERIALS ARE STORED UNDER PROPER

CONDITIONS DETERMINED BY C.C. CONTROL CORP.

J.P. MAHIEU

JOB SITE

17,342.25 % 15 Mark UP

132,957.25