

Union County North Carolina



Crooked Creek WRF Electrical Systems Improvements IFB No. 2021-027R (Re-Bid)

ADDENDUM NO. 2

ISSUE DATE: January 4, 2021

Bidders on this project are hereby notified that this Addendum shall be attached to and made a part of the above named Contract Documents.

The following items add to, modify, and clarify the Contract Documents and shall have the full force and effect of the original Documents. Bids shall conform to those items and the cost change, if any, of these items shall be included in this Bid Price. This Addendum shall be acknowledged by the Bidder on Page 1 of the Bid Form, C-410.

Add/Delete Section

Add the following attachments to Addendum No. 1 released 12/29/20.

ATTACHMENTS

1. C-410 Bid Form
2. Union County Permitting Plan Approval
3. Sheet E-11



END OF ADDENDUM No. 2

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ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

**UNION COUNTY PROCUREMENT DEPARTMENT
ATTENTION: Vicky Watts
500 N. Main Street Suite 709
Monroe, NC 28112**

1.02 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.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Addendum, Date</u>
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all 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 adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

- E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, 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 given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. 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 collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;

3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

No.	Description	
1	Lump Sum Bid Price	\$
2	Miscellaneous Electrical Material and Labor Allowance (See E-3 for Description)	\$
3	Lump Sum Contingency Allowance (5% of Lump Sum Bid Price)	\$

Total of All Items No. 1 through No. 3

\$ (In Figures)

(In Words)

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 14.07 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.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
 - A. Required Bid security;
 - B. List of Proposed Subcontractors (Attachment A);
 - C. List of Proposed Suppliers (Attachment A);
 - D. List of Project References;

- E. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;
- F. Contractor's License No.: [REDACTED] and photocopy of North Carolina General Contractors License.
- G. Required Bidder Qualification Statement with supporting data (Attachment B);
- H. Identification of HUB Certified/Minority Business Participation (refer to Section 004539 for form); and
- I. Good Faith Efforts (Affidavit A), or Intent to Perform Contract with Own Workforce (Affidavit B) (refer to 004539 for forms).

ARTICLE 8 – DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

By: _____
[Signature]

[Printed name] _____
(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest: _____
[Signature]

[Printed name] _____

Title: _____

Submittal Date: _____

Address for giving notices:

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

Bidder's License No.: _____
(where applicable)

NOTE TO USER: Use in those states or other jurisdictions where applicable or required.

ATTACHMENT A
LIST OF SUBCONTRACTORS/SUPPLIERS

LIST OF SUBCONTRACTORS

List the names and addresses of the subcontractors to be used for the portions of the work listed below (list "self" if work will be performed by prime contractor).

Electrical: _____

Building Mechanical: _____

Other: _____

LIST OF SUPPLIERS

The Contract Documents are based upon the equipment or products available from the Suppliers denoted as “A,” “B,” etc. The Bidder must indicate in his Bid which supplier the Bidder will use for each item of equipment listed on this form by circling one of the listed suppliers. Should a Bidder fail to circle a named item in each category, or if he circles more than one listed supplier, he hereby agrees to provide the item listed as “A.”

If the Bidder desires to propose an alternate supplier, the Bidder must submit a request for substitution to the Engineer at least 15 days prior to the first date specified for receipt of bids. No substitutions will be considered for the items listed in this section after receipt of bids. Procedures for submittal and Engineer Review of substitutions shall be in accordance with Section C-200. Substitutions accepted by the Engineer during the bidding period will be incorporated into the Contract Documents by Addendum.

If the proposed alternate supplier is determined “not equivalent” by the Engineer, the Bidder must circle one of the listed suppliers. If the Bidder fails to indicate which listed supplier the Bidder intends to use if an alternate is rejected, the Bidder must use the supplier listed as “A.” Also, if the Bidder circles more than one listed supplier, he must use the first supplier circled (unless an alternate is approved).

<u>Item</u>	<u>Equipment Item or Material</u>	<u>Bid or Supplier</u>
1.	Diesel Engine Driver Generator	A. Caterpillar B. Cummins C. Kohler D. Generac
2.	Motor Control Centers	A. Eaton B. Schneider Electric USA (Square D) C. Rockwell Automation
3.	Automatic Transfer Switch	A. Eaton B. ASCO C. Russelectric
4.	Panelboards, Transformers, and Disconnect Switches	A. Eaton B. Schneider Electric USA (Square D) C. Siemens

ATTACHMENT B
GENERAL CONTRACTOR QUALIFICATIONS STATEMENT

The undersigned warrants the truth and accuracy of all statements and answers herein contained. The information requested shall be completed in its entirety by the Bidder. Include additional sheets if necessary.

1. How many years has your organization been in business as a Prime Contractor?

2. Describe and give the date and owner of the last three projects that you have completed similar in type, size, and nature as the one proposed?

a. _____

b. _____

c. _____

3. Have you ever failed to complete work awarded to you? If so, where and why?

4. Name three individuals or corporations for which you have performed work and will provide references to your work (provide contact names and phone numbers):

5. General Contractor shall provide a Financial Statement if requested by the Engineer.

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Union County Growth Management
Planning Division
500 N. Main Street
Suite 70
Monroe, NC 28112
704-283-3565



Environmental Health
500 N. Main Street
Suite 47
Monroe, NC 28112
704-283-3553

December 10, 2020

Morgan Leger
CDM Smith
4600 Park Rd Ste 240
Charlotte, NC 28209-3730

Project Number	20201878
Location	4015 Sardis Church Rd, Monroe
Stage	Permit Planning Approval
Parcel(s)	07066015B
Status	Approved

Dear: Morgan Leger

**** NOTICE ****

Please send any correspondence to ucinspections@unioncountync.gov or the individual plan reviewer. Replying to the clerk who sent this email will not get a response.

We have completed our review of the plan identified above. The plan was approved per attached comments, if any. This letter is not to be construed as a zoning compliance, grading, building permit, certificate of occupancy, or a substitute for any permit or certificate required by any state or federal government entity.

ALL "CHECKLIST" ITEMS MUST BE COMPLETED BEFORE A PERMIT CAN BE ISSUED. If you are unsure of the status of any checklist item, please contact our office. We will be to assist you in addressing any outstanding item(s.) These items may include, but are not limited to: Contract Costs, Identify All Contractors, Lien Agent Forms, Workers Comp Form, Septic waiver/Permit, Zoning Approval.

Plan Review Comments

Commercial BPM - Terry Griffin -
terrygriffin@unioncountync.gov

Approved

Review Comments:

Commercial Electrical Review - Steven Stack -
steven.stack@unioncountync.gov

Approved

Review Comments:

Fire Marshal - Ashley Riggins -
ashley.riggins@unioncountync.gov

Approved

Review Comments:

Public Works - Matthew Murray -
Matthew.Murray@unioncountync.gov

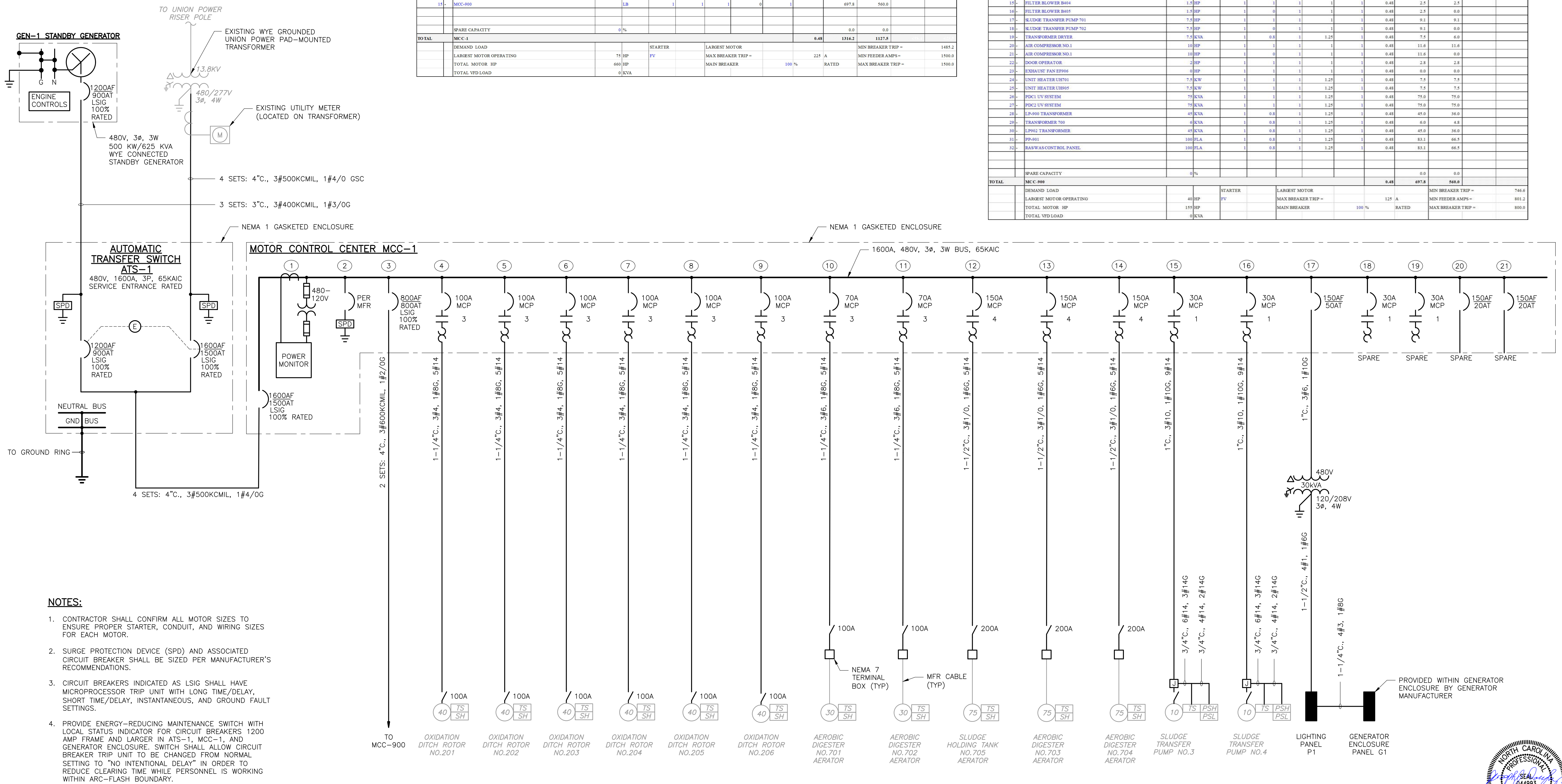
Approved

Review Comments:

CIP Project

NO.	DESCRIPTION	LOAD			QUANTITY			FEDER SIZING FACTOR	DEM FAC	VOLT KV	CONN KVA	OPER DEMAND KVA
		SIZE	UNIT	CONN	OPER	EMER						
1	OXIDATION DITCH ROTOR NO.201	40 HP		1	1	1	1	1	0.45	43.2	43.2	
2	OXIDATION DITCH ROTOR NO.202	40 HP		1	1	1	1	1	0.45	43.2	43.2	
3	OXIDATION DITCH ROTOR NO.203	40 HP		1	1	1	1	1	0.45	43.2	43.2	
4	OXIDATION DITCH ROTOR NO.204	40 HP		1	1	1	1	1	0.45	43.2	43.2	
5	OXIDATION DITCH ROTOR NO.205	40 HP		1	1	1	1	1	0.45	43.2	43.2	
6	OXIDATION DITCH ROTOR NO.206	40 HP		1	1	1	1	1	0.45	43.2	43.2	
7	AEROBIC DIGESTOR NO.701	30 HP		1	1	1	1	1	0.45	33.3	33.3	
8	AEROBIC DIGESTOR NO.702	30 HP		1	0	1	1	1	0.45	33.3	0.0	
9	SLUDGE HOLDING TANK NO.705	75 HP		1	1	1	1	1	0.45	79.8	79.8	
10	AEROBIC DIGESTOR NO.703	75 HP		1	1	1	1	1	0.45	79.8	79.8	
11	AEROBIC DIGESTOR NO.704	75 HP		1	1	1	1	1	0.45	79.8	79.8	
12	SLUDGE TRANSFER PUMP NO.3	10 HP		1	1	1	1	1	0.45	11.6	11.6	
13	SLUDGE TRANSFER PUMP NO.4	10 HP		1	0	1	1	1	0.45	11.6	0.0	
14	TRANSFORMER	30 KVA		1	0.8	1	1.25	1	0.45	30.0	24.0	
15	MCC-900	LB		1	1	1	0	1		697.8	560.0	
TOTAL		MCC-1								0.48	1316.2	1117.5
DEMAND LOAD				STARTER			LARGEST MOTOR			1485.2		
LARGEST MOTOR OPERATING		75 HP		FV			MAX BREAKER TRIP =			225 A		
TOTAL MOTOR HP		660 HP					MAIN BREAKER			100 %		
TOTAL VFD LOAD		0 KVA								1500.0		

NO.	DESCRIPTION	LOAD			QUANTITY			FEDER SIZING FACTOR	DEM FAC	VOLT KV	CONN KVA	OPER DEMAND KVA
		SIZE	UNIT	CONN	OPER	EMER						
16	EFFLUENT PUMP NO.1	40 HP		1	1	1	1	1	0.45	43.2	43.2	
17	EFFLUENT PUMP NO.2	40 HP		1	1	1	1	1	0.45	43.2	43.2	
18	EFFLUENT PUMP NO.3	40 HP		1	0	1	1	1	0.45	43.2	0.0	
19	SECONDARY CLARIFIER 301	1 HP		1	1	1	1	1	0.45	1.7	1.7	
20	SECONDARY CLARIFIER 302	1 HP		1	1	1	1	1	0.45	1.7	1.7	
21	SECONDARY CLARIFIER 303	1 HP		1	1	1	1	1	0.45	1.7	1.7	
22	SECONDARY CLARIFIER 304	1 HP		1	1	1	1	1	0.45	1.7	1.7	
23	FILTER BW 401	15 HP		1	1	1	1	1	0.45	17.5	17.5	
24	FILTER BW 402	15 HP		1	1	1	1	1	0.45	17.5	17.5	
25	FILTER BW 404	15 HP		1	1	1	1	1	0.45	17.5	17.5	
26	FILTER BW 405	15 HP		1	0	1	1	1	0.45	17.5	0.0	
27	FILTER BLOWER B401	15 HP		1	1	1	1	1	0.45	2.5	2.5	
28	FILTER BLOWER B402	15 HP		1	1	1	1	1	0.45	2.5	2.5	
29	FILTER BLOWER B403	15 HP		1	1	1	1	1	0.45	2.5	2.5	
30	FILTER BLOWER B404	15 HP		1	1	1	1	1	0.45	2.5	2.5	
31	FILTER BLOWER B405	15 HP		1	0	1	1	1	0.45	2.5	0.0	
32	SLUDGE TRANSFER PUMP 701	7.5 HP		1	1	1	1	1	0.45	9.1	9.1	
33	SLUDGE TRANSFER PUMP 702	7.5 HP		1	0	1	1	1	0.45	9.1	0.0	
34	TRANSFORMER DRYER	7.5 KVA		1	0.8	1	1.25	1	0.45	7.5	6.0	
35	AIR COMPRESSOR NO.1	10 HP		1	1	1	1	1	0.45	11.6	11.6	
36	AIR COMPRESSOR NO.1	10 HP		1	0	1	1	1	0.45	11.6	0.0	
37	DOOR OPERATOR	2 HP		1	1	1	1	1	0.45	2.8	2.8	
38	EXHAUST FAN EF906	0 HP		1	1	1	1	1	0.45	0.0	0.0	
39	UNIT HEATER UH701	7.5 KW		1	1	1	1.25	1	0.45	7.5	7.5	
40	UNIT HEATER UH805	7.5 KW		1	1	1	1.25	1	0.45	7.5	7.5	
41	PECU UV SYSTEM	75 KVA		1	1	1	1.25	1	0.45	75.0	75.0	
42	PECU UV SYSTEM	75 KVA		1	1	1	1.25	1	0.45	75.0	75.0	
43	LP-800 TRANSFORMER	45 KVA		1	0.8	1	1.25	1	0.45	45.0	36.0	
44	TRANSFORMER 700	6 KVA		1	0.8	1	1.25	1	0.45	6.0	4.8	
45	LP902 TRANSFORMER	45 KVA		1	0.8	1	1.25	1	0.45	45.0	36.0	
46	PP-801	100 FLA		1	0.8	1	1.25	1	0.45	83.1	66.5	
47	RAWWAS CONTROL PANEL	100 FLA		1	0.8	1	1.25	1	0.45	83.1	66.5	
TOTAL		MCC-900								0.48	697.8	560.0
DEMAND LOAD				STARTER			LARGEST MOTOR			746.6		
LARGEST MOTOR OPERATING		40 HP		FV			MAX BREAKER TRIP =			125 A		
TOTAL MOTOR HP		155 HP					MAIN BREAKER			100 %		
TOTAL VFD LOAD		0 KVA								800.0		



- NOTES:**
- CONTRACTOR SHALL CONFIRM ALL MOTOR SIZES TO ENSURE PROPER STARTER, CONDUIT, AND WIRING SIZES FOR EACH MOTOR.
 - SURGE PROTECTION DEVICE (SPD) AND ASSOCIATED CIRCUIT BREAKER SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
 - CIRCUIT BREAKERS INDICATED AS LSIG SHALL HAVE MICROPROCESSOR TRIP UNIT WITH LONG TIME/DELAY, SHORT TIME/DELAY, INSTANTANEOUS, AND GROUND FAULT SETTINGS.
 - PROVIDE ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR FOR CIRCUIT BREAKERS 1200 AMP FRAME AND LARGER IN ATS-1, MCC-1, AND GENERATOR ENCLOSURE. SWITCH SHALL ALLOW CIRCUIT BREAKER TRIP UNIT TO BE CHANGED FROM NORMAL SETTING TO "NO INTENTIONAL DELAY" IN ORDER TO REDUCE CLEARING TIME WHILE PERSONNEL IS WORKING WITHIN ARC-FLASH BOUNDARY.

SLUDGE TRANSFER PUMP STATION NO.2 MCC-1
ONE-LINE DIAGRAM

XREFS: [CDMS-2436] 11/20/2020 11:52:10 AM
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DESIGNED BY: T. ROSCHEN
 DRAWN BY: R. CARTER
 SHEET CHK'D BY: J. DOUGHNEY
 CROSS CHK'D BY: J. SANCHEZ
 APPROVED BY: J. DOUGHNEY
 DATE: NOVEMBER 2020



UNION COUNTY PUBLIC WORKS
 UNION COUNTY, NORTH CAROLINA
 CROOKED CREEK WRF
 ELECTRICAL SYSTEM IMPROVEMENTS PROJECT

SLUDGE TRANSFER PUMP STATION NO.2
 MCC-1 ONE-LINE DIAGRAM
 MODIFICATION

PROJECT NO. 28600-248569
 FILE NAME: E011NFOL.DWG
 SHEET NO.
E-11
 BID SET

