

ADDENDUM NO. 7  
HWEA CONTRACT # 133-2019-01  
HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION  
HOPKINSVILLE WATER ENVIRONMENT AUTHORITY  
HOPKINSVILLE, KENTUCKY  
WAUFORD PROJECT NO. 1983

Date of Addendum: Tuesday, February 4, 2020  
Bid Opening: Thursday, February 6, 2020, 2:00 p.m. Central Time

1. Attached is revised Page 6 of the Questions and Clarifications document dated February 4, 2020.
2. BID FORM:  
  
Replace the entire BID FORM with the attached revised BID FORM.
3. Detailed Specifications, Section 10, Miscellaneous Equipment, Paragraph 10. Free Standing Hoisting Equipment (Three Required), Page DS 10-4:

Modify this paragraph as follows:

“10. Free Standing Hoisting Equipment (Three Required)

a. General

The Contractor shall supply aluminum, stainless steel **or galvanized steel** prefabricated base plate-mounted free-standing cranes as shown on the Plans. The free-standing cranes shall have a rated capacity and height as shown on the Plans. Structural steel and aluminum shapes and hardware shall meet the requirements of Section 9, Miscellaneous Metals of these Details Specifications. The free-standing crane shall be SPANCO Corporation, **EMH, Inc., Capital Hoist & Crane, Inc., Tri State Tool and Hoist, Inc.** or approved equal.

b. Design

The standard capacity rating of the free-standing crane shall be the net rated load at the hook of the hoist of the same rated capacity as the crane. The design factor for the stresses in the crane shall be based upon the capacity plus 25% of the rated load for impact and 15% of the rated load for the weight of the

hoist and trolley. The design shall provide a margin to allow for variations in material properties, operating conditions, and design assumptions. The design shall be sealed by a registered Kentucky Professional Engineer. The track, headers and columns shall be fabricated out of structural aluminum, stainless steel **or galvanized steel. Galvanized coatings shall be in accordance with the latest revision of ASTM A123.**

c. Hoists

One (1) hoist shall be provided for each free standing crane as shown on the Plans. The trolley hoist shall be a hand-operated, electric lift, push-type and shall have a lift of 30 feet, the hoist shall have a minimum operating speed of 28/4.5 feet per minute and shall run on the free standing crane as shown on the Plans. The hoist shall be equal to a 0.5 ton electric Harrington Hoist rated for outdoor use. The hoist shall be driven by a 4.7 HP - TENV motor which operates on 480 volt, 3 phase power.

The trolley shall be appropriately sized to operate with the free standing crane and shall be equipped with all festooning and appurtenances to make a fully functional assembly.

4. Detailed Specifications, Sub-Section 11A, Mechanically Cleaned Bar Screen, Paragraph 2. Vendors / Manufacturers, Page DS 11A-1:

Modify this paragraph as follows:

“2. Vendors / Manufacturers

The mechanically cleaned bar screen and appurtenances shall be provided as a system:

- Vulcan Industries, Inc. of Missouri Valley, Iowa
- Duperon of Saginaw, Michigan
- Hydro-Dyne Engineering, Inc. of Clearwater, Florida
- **Headworks, Inc. of Houston, Texas**
- Approved Equal as Determined by the Engineer”

5. Detailed Specifications, Sub-Section 11G, Effluent Reuse Vertical Turbine Pumps, Associated Variable Frequency Drives, Automatic Pump Control System and Accessories, Paragraph 4.a. Effluent Reuse Vertical Turbine Pumps, Page DS 11G-2:

Modify the list of the acceptable pumps as follows:

“The following pumps appear to meet the stipulated conditions:

- Fairbank Nijhuis, 8M-SS-9 stage, 1,800 rpm with 5.44” Ø impeller
- National Pump Company, L10LC-S-6 stage, 1,800 rpm with 7.44” Ø impeller”

6. Detailed Specifications, Sub-Section 11P, Part II - Control and Monitoring System Equipment, Paragraph 4.a. General, Page DS 11P-33:

Replace item (4) on Page DS 11P-33 with the following:

“(4) All analog inputs and outputs including designated spare points, shall be protected from surges using three-level surge/transient suppression. Analog surge protectors shall be manufactured by Edco, CITEL or approved equal. Field termination points shall be installed in the control panel to allow each of the analog inputs to be pre-configured for two-wire loop powered or field sourced 4-20mA devices as determined by field device source type needs. 24VDC power supplies shall be included for use on two-wire loop powered devices.”

7. Detailed Specifications, Sub-Section 11P, Part II - Control and Monitoring System Equipment, Paragraph 4.a. General, Page DS 11P-33:

Delete item (5) on Page DS 11P-33 in its entirety.

8. Detailed Specifications, Section 12, Electrical Work:

ABB/GE shall be an approved vendor for automatic transfer switch, main switchboard, panelboards, dry type transformers, motor starters, safety switches, lighting contactors and time switches.

9. Plans, Sheet 1, General Notes, Note 17:

Replace Note 17 with the following:

“17. The Contractor shall wash the existing oxidation ditches and clarifiers, including washing solids into the plant drain system. Solids which cannot be washed into the drain system shall be removed by the Contractor as described in Note 18.”

10. Plans, Sheet 1, General Notes:

Add Note 18 as follows:

“18. The removal and dewatering of up to 200 C.Y. of solids from existing structures shall be completed by the Contractor and included in Bid Form A, Item No. 2. The Contractor shall remove and dewater solids as necessary for landfilling. The Owner will be responsible for hauling and landfill disposal costs through their normal contracts for these services.”

11. Plans, Sheet 40:

Modify this sheet as shown on the attached 8 ½” X 11” sheet.

12. Plans, Sheet E23:

Modify this sheet as shown on the attached 8 ½” X 11” sheet.

13. Plans, Sheet E35:

Modify this sheet as shown on the attached two 8 ½” X 11” sheets.

J. R. WAUFORD & COMPANY,  
CONSULTING ENGINEERS, INC.



---

Stephen C. Lee, P.E.  
Kentucky License No. 27833

44. **Question** – *Will the Operations Building require rigid galvanized steel conduit and EMT conduit will NOT be allowed, even concealed in masonry walls?*

**Answer** – Correct.

45. **Comment** – *Please confirm that Rigid Galvanized Steel conduit shall extend 10 feet from the outside of structure or buildings lines within concrete encased duct bank.*

**Response**– Correct.

46. **Question** – *Is Schedule 80 PVC conduit required in duct banks, even when encased?*

**Answer** – Yes.

47. **Question** – *Will electrical duct bank concrete require testing?*

**Answer** – No.

48. **Question** – *Will site lighting pole base concrete require testing?*

**Answer** – Yes.

49. **Question** – *Will Aluminum ladder type cable tray be acceptable in Solar Drying Beds?*

**Answer** – Yes.

50. **Clarification** – The scope and requirements for the site fence are covered under Paragraph 12. Fencing (Owner Standard) in Section 4 of the Detailed Specifications, two notes on the left side of Sheet 3 of the Plans, and details on Sheet 25 of the Plans. The two notes on Sheet 3 of the Plans read as follows:

“REPLACE EXISTING FENCE AROUND ENTIRE SITE AS SPECIFIED. THIS INCLUDES 3,650 L.F. OF NEW CHAIN LINK FENCE, ONE 4’ MAN GATE AND TWO 6’ MAN GATES

40’ SLIDING GATE W/ ELEC. OPERATOR & ACCESSORIES AS SPECIF’D (TYP. FOR 2)”

**BID FORM**

**HWEA CONTRACT # 133-2019-01**

**HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION**

**WAUFORD PROJECT NO. 1983**

**FEBRUARY 2019**

**TABLE OF CONTENTS**

	<b>Page</b>
Article 1 – Bid Recipient .....	3
Article 2 – Bidder’s Acknowledgements .....	3
Article 3 – Bidder’s Representations.....	3
Article 4 – Bidder’s Certification .....	4
Article 5 – Basis of Bid.....	5
Article 6 – Time of Completion .....	17
Article 7 – Attachments to this Bid .....	17
Article 8 – Defined Terms.....	17
Article 9 – Bid Submittal.....	17

**ARTICLE 1 – BID RECIPIENT**

1.01 This Bid is submitted to:

**Hopkinsville Water Environment Authority**  
**401 East Ninth Street, Hopkinsville, Kentucky 42240**

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 **90** 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 anything 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):

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION**

BID FORM A - CONSTRUCTION

Bids shall include sales tax and all other applicable taxes and fees.

1. Lump Sum Price

For performing all labor and furnishing all materials, equipment, and equipment installation necessary for constructing Contract 133-2019-01 – Hammond-Wood Wastewater Treatment Plant Expansion including all incidentals and all other work and appurtenances except Finish Grading, Topsoiling, Seeding and Final Clean-up necessary for completion of work under this Contract as shown on the Plans and/or specified for the lump sum amount of:

TOTAL BID FORM A, Item No. 1 - (\$ \_\_\_\_\_ )  
\_\_\_\_\_ Dollars  
\_\_\_\_\_ Cents

2. Lump Sum Price – Finish Grading, Topsoiling, Seeding and Final Clean Up

For performing all labor and furnishing all materials required for Finish Grading, Topsoiling, Seeding and Final Clean-up necessary for completion of work under this Contract as shown on the Plans and/or specified for the lump sum amount of:

TOTAL BID FORM A, Item No. 2 - (\$ \_\_\_\_\_ )  
\_\_\_\_\_ Dollars  
\_\_\_\_\_ Cents

\* NOTE: Bid Item No. 2 shall not be less than 2% of Bid Item No. 1.

TOTAL BID FORM A, Item No. 1 + Item No. 2 - (\$ \_\_\_\_\_ )  
\_\_\_\_\_ Dollars  
\_\_\_\_\_ Cents

Equipment to be Furnished

The prices for equipment listed hereinafter for work to be constructed under Sub-Sections 11A through 11P are included in the lump sum price shown previously as Lump Sum Price. The BIDDER shall use the lowest priced item listed as an acceptable Base Bid item as the basis for arriving at his overall price. The BIDDER is required to fill in the items below in order to indicate the relative prices of the equipment of various manufacturers which may be considered by the Owner for various reasons. The prices shown on the next page shall include the cost of furnishing the various equipment items.

**The prices listed hereinafter are not to be in addition to the Lump Sum Price hereinbefore but are to be included in it.**

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

BID FORM A – CONSTRUCTION

<b>Sub-Section</b>	<b>Description</b>	<b>Price</b>	<b>Equipment Used in Base Bid (Show only one per Sub-Section)</b>
11A	<u>Mechanically Cleaned Bar Screen</u>		
	Vulcan Industries, Inc.	\$ _____	\$ _____
	Duperon	\$ _____	\$ _____
	Hydrodyne Engineering, Inc.	\$ _____	\$ _____
	<b><i>Headworks, Inc.</i></b>	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11B	<u>Rotary Drum Fine Screens</u>		
	WesTech Engineering, Inc.	\$ _____	\$ _____
	Parkson	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11C	<u>Grit Removal Equipment</u>		
	Hydro International Wastewater	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11D	<u>Fine Bubble Aeration System</u>		
	Sanitaire Corporation	\$ _____	\$ _____
	Stamford Scientific Int'l.	\$ _____	\$ _____
	<b><i>Evoqua Water Technologies, LLC</i></b>	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11E	<u>Coarse Bubble Aeration System</u>		
	Sanitaire Corporation	\$ _____	\$ _____
	Stamford Scientific Int'l.	\$ _____	\$ _____
	Evoqua Water Technologies, LLC	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11F	<u>Wet Pit Submersible Pumps, Mixers and Accessories</u>		
	Flygt	\$ _____	\$ _____
	ABS	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

BID FORM A – CONSTRUCTION (cont'd)

<b>Sub-Section</b>	<b>Description</b>	<b>Price</b>	<b>Equipment Used in Base Bid (Show only one per Sub-Section)</b>
11G	<u>Effluent Reuse Vertical Turbine Pumps, Associated Variable Frequency Drives, Automatic Pump Control System and Accessories</u>		
	Fairbank Nijhuis	\$ _____	\$ _____
	National Pump	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11H	<u>High Efficiency Centrifugal Turbo Blowers</u>		
	Sulzer	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11I	<u>Positive Displacement Blower (Post Aeration)</u>		
	Aerzen	\$ _____	\$ _____
	Gardner Denver	\$ _____	\$ _____
	<b>Hardy Pro-Air</b>	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11J	<u>Manifold-Type Hydraulic Suction Circular Clarifier Equipment</u>		
	Evoqua Water Technologies, LLC	\$ _____	\$ _____
	WesTech Engineering, Inc.	\$ _____	\$ _____
	Ovivo USA, LLC	\$ _____	\$ _____
	<b>Envirodyne Systems, Inc.</b>	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11K	<u>Conveying, Storage and Loading</u>		
	Keystone Conveyor Corp	\$ _____	\$ _____
	Custom Conveyor Corp	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

BID FORM A – CONSTRUCTION (cont'd)

<b>Sub-Section</b>	<b>Description</b>	<b>Price</b>	<b>Equipment Used in Base Bid (Show only one per Sub-Section)</b>
11L	<u>Screw Press Equipment</u>		
	Schwing Bioset, Inc.	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11M	<u>Solar Drying Equipment</u>		
	<b><i>Thermal Process Systems, Inc.</i></b>	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11N	<u>Peracetic Acid Storage Tank and Transfer Pump</u>		
	PeroxyChem	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11O	<u>Fabricated Slide Gates, Weir Gates and Accessories</u>		
	Whipps Water Control Products	\$ _____	\$ _____
	R W Gate Company	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11P	<u>Controls and Instrumentation</u>		
	HTI, Inc. utilizing ABB Variable Frequency Drives	\$ _____	\$ _____
	HTI, Inc. utilizing Allen-Bradley Variable Frequency Drives	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____

**Pricing may not include applicable taxes. All applicable taxes shall be included in the Contractor's price under Bid Form A – Lump Sum Price.**

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

BID FORM B – ADJUSTMENT ITEMS

NOTE: The following items (Item Nos. 1 – 20) are for use in performing work not shown on the Plans or specified under the scope of BID FORM A, Lump Sum Price (which includes Equipment to be Furnished). Prices listed for adjustment items will be used only for accomplishing any field changes directed by the Engineer outside the scope of the Lump Sum Price.

Item No.	Approximate Quantity	Description with Unit Bid Price Written in Words	Unit Price	Total Price
1.	100 C.Y.	Excavation in earth 0 to 5 feet deep For _____ _____ Dollars _____ Cents, per cubic yard	\$ _____	\$ _____
2.	100 C.Y.	Excavation in earth below 5 feet deep For _____ _____ Dollars _____ Cents, per cubic yard	\$ _____	\$ _____
3.	20 C.Y.	Class "A" Concrete for Footings, complete <u>not</u> including reinforcing steel or excavation For _____ _____ Dollars _____ Cents, per cubic yard	\$ _____	\$ _____
4.	40 C.Y.	Class "A" Concrete for piers, slabs or walls complete <u>not</u> including reinforcing steel or excavation For _____ _____ Dollars _____ Cents, per cubic yard	\$ _____	\$ _____
5.	40 C.Y.	Class "C" Concrete For _____ _____ Dollars _____ Cents, per cubic yard	\$ _____	\$ _____

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

**BID FORM B – ADJUSTMENT ITEMS (cont'd)**

Item No.	Approximate Quantity	Description with Unit Bid Price Written in Words	Unit Price	Total Price
6.	4,000 Lbs.	Reinforcing Steel For _____ _____ Dollars _____ Cents, per lb.	\$ _____	\$ _____
7.	20 L.F.	Aluminum Pipe Handrails Top or Side Mounted For _____ _____ Dollars _____ Cents, per lb.	\$ _____	\$ _____
8.		<u>PVC Pipe in Place (0'-8' Deep)</u> Extra Depth will be paid for by including Item 1 or 2		
(a)	10 L.F.	4-inch DR-26 PVC Gravity Drain Pipe (0'-8') For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____
(b)	10 L.F.	6-inch DR-26 PVC Gravity Drain Pipe (0'-8') For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____
(c)	10 L.F.	8-inch DR-26 PVC Gravity Drain Pipe (0'-8') For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____



**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

**BID FORM B – ADJUSTMENT ITEMS (cont'd)**

Item No.	Approximate Quantity	Description with Unit Bid Price Written in Words	Unit Price	Total Price
9.		<u>Ductile Iron Pipe in Place</u> <u>(0'-8' Deep)</u>  Extra Depth with be paid for by including Item 1 or 2		
(a)	10 L.F.	6-inch D.I.P For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____
(b)	10 L.F.	8-inch D.I.P For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____
(c)	10 L.F.	12-inch D.I.P For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____
(d)	10 L.F.	18-inch D.I.P For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____
(e)	10 L.F.	24-inch D.I.P For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____
(f)	10 L.F.	36-inch D.I.P For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

**BID FORM B – ADJUSTMENT ITEMS (cont'd)**

<b>Item No.</b>	<b>Approximate Quantity</b>	<b>Description with Unit Bid Price Written in Words</b>	<b>Unit Price</b>	<b>Total Price</b>
(g)	10 L.F.	42-inch D.I.P For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____
(h)	10 L.F.	48-inch D.I.P For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____
10.	2,000 Lbs.	Flanged or M.J. Cast Iron or Ductile Iron Pipe Fittings, in place For _____ _____ Dollars _____ Cents, per lb.	\$ _____	\$ _____
11.	3,000 Lbs.	Flanged Ductile Iron Pipe 4-inch through 24-inch, complete in place For _____ _____ Dollars _____ Cents, per lb.	\$ _____	\$ _____
12.	1 Each	Yard Hydrant complete in place, including valve, pad, plaque and hose rack For _____ _____ Dollars _____ Cents, per each	\$ _____	\$ _____

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

**BID FORM B – ADJUSTMENT ITEMS (cont'd)**

<b>Item No.</b>	<b>Approximate Quantity</b>	<b>Description with Unit Bid Price Written in Words</b>	<b>Unit Price</b>	<b>Total Price</b>
13.	200 C.Y.	KYTC Crushed Stone, Size No. 57 or No. 9 for undercutting or backfill where directed by the Engineer, including filter fabric and excavation, complete in place For _____ _____ Dollars _____ Cents, per cubic yard	\$ _____	\$ _____
14.	200 C.Y.	Select shotrock fill for undercutting or backfill where directed by the Engineer, including geogrid, complete in place For _____ _____ Dollars _____ Cents, per cubic yard	\$ _____	\$ _____
15.	200 C.Y.	KYTC Crushed Stone, Size No. 1 for stabilization where directed by the Engineer For _____ _____ Dollars _____ Cents, per cubic yard	\$ _____	\$ _____
16.	200 S.Y.	Sodding where directed by the Engineer For _____ _____ Dollars _____ Cents, per square yard	\$ _____	\$ _____

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

BID FORM B – ADJUSTMENT ITEMS (cont'd)

17.	200 C.Y.	Dense Grade Aggregate Crushed Stone compacted in 6-inch lifts where directed by the Engineer For _____ _____ Dollars _____ Cents, per cubic yard	\$ _____	\$ _____
18.	200 S.Y.	Hand Place Rip-Rap For _____ _____ Dollars _____ Cents, per square yard	\$ _____	\$ _____
19.	1,000 L.F.	Chain Link Fence For _____ _____ Dollars _____ Cents, per linear foot	\$ _____	\$ _____
20.	200 C.Y.	<i>Remove and dewater WWTP solids over and above 200 C.Y. which is to be included in BID FORM A, Item No. 1.</i> For _____ _____ <i>Dollars _____</i> <i>Cents, per cubic yard</i>	\$ _____	\$ _____

<b>TOTAL BID FORM B</b>	\$ _____
-------------------------	----------

BID FORM C – ALLOWANCE ITEMS

1.	Operations Building Furniture	\$20,000
2.	Signage	\$8,000

<b>TOTAL BID FORM C</b>	\$28,000
<b>TOTAL BID FORM A (Repeat from Page BF-6)</b>	\$ _____
<b>TOTAL BID (BID FORM A + B + C) FOR CONTRACT # 133-2019-01</b>	\$ _____

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

DEDUCTIVE ALTERNATES

In the event the total amount of the bid for Contract # 133-2019-01 exceeds the available funds for the project, one of the following deducts may be subtracted from the total for Contract # 133-2019-01.

Deductive Alternate No. 1

As shown on Sheet 4 of the Plans, delete Biosolids Storage, Solar Drying Units, and Solar Drying Electrical Building, and all associated electrical conductors. Note that electrical conduit shall be installed for future construction of the deleted facilities. All other proposed facilities shall be constructed and made fully functional as shown on the Plans.

TOTAL DEDUCTIVE ALTERNATE NO. 1 - (\$ \_\_\_\_\_ )  
\_\_\_\_\_ Dollars  
\_\_\_\_\_ Cents

Deductive Alternate No. 2

As shown on Sheet 4 of the Plans, delete four (4) of the five (5) solar drying units and all associated electrical conductors. Note that electrical conduit shall be installed and piping stubouts shall be installed for future construction of the deleted facilities. All other proposed facilities shall be constructed and made fully functional as shown on the Plans.

TOTAL DEDUCTIVE ALTERNATE NO. 2 - (\$ \_\_\_\_\_ )  
\_\_\_\_\_ Dollars  
\_\_\_\_\_ Cents

Bidder acknowledges that (1) each Bid Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

**Note: The Owner reserves the right to award the Contract based on the TOTAL BID (Bid Form A + B + C) or based on the TOTAL BID (Bid Form A + B + C) less Deductive Alternate No. 1 or based on the TOTAL BID (Bid Form A + B + C) less Deductive Alternate No. 2.**

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT  
EXPANSION (cont'd)**

SUMMARY OF BID FORM VALUES

Option No. 1 – No Solar Drying

TOTAL BID (BID FORM A+B+C)  
LESS DEDUCTIVE ALTERNATE NO. 1 \$ \_\_\_\_\_

Option No. 2 – Partial (20%) Solar Drying

TOTAL BID (BID FORM A+B+C)  
LESS DEDUCTIVE ALTERNATE NO. 2 \$ \_\_\_\_\_

Option No. 3 – Solar Drying

TOTAL BID (BID FORM A+B+C) \$ \_\_\_\_\_

**ARTICLE 6 – TIME OF COMPLETION**

- 6.01 Bidder agrees that the Work will be completed and ready for final payment in accordance with Paragraph 15.06 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;
  - C. List of Proposed Suppliers;
  - 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. Required Bidder Qualification Statement with supporting data; ~~and~~
  - G. **Required Affidavit for Bidders, Offerors and Contractors Claiming Qualified Bidder Status; and**

**H. Required Affidavit for Bidders, Offerors and Contractors Claiming Resident Bidder Status;**

**ARTICLE 7A – MEASURABLE CRITERIA FOR EVALUATION OF BIDS**

- ARTICLE 7 – ATTACHMENTS TO THIS BID

PASS/FAIL

- PRICE 100 POINTS / TOTAL POINTS 100

Each Contractor is responsible for submitting all relevant, factual and correct information with their Bid to enable the evaluator(s) to afford each Contractor the Pass/Fail designation based on the available data submitted by the Contractor. The Contractor shall explicitly adhere to the BID FORM which contains adequate space for the Contractor's pricing.

Bid Price (100 Points)

The bidder with the lowest Bid Price receives the maximum score. The bidder with the next lowest Price receives points by dividing the lowest Price by the next lowest Price and multiplying that percentage by the available points. For example, 100 points is allocated to the lowest Price criteria for this procurement, Bidder "A" bids \$3.00 as the lowest bidder and receives the maximum 100 points ( $\$3.00 / \$3.00 = 1.00 \times 100 = 100$ ). Assume Bidder "B" is next lowest bidder at \$4.00, then "B" receives 75 points ( $\$3.00 / \$4.00 = .75 \times 100 = 75$ ).

**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:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

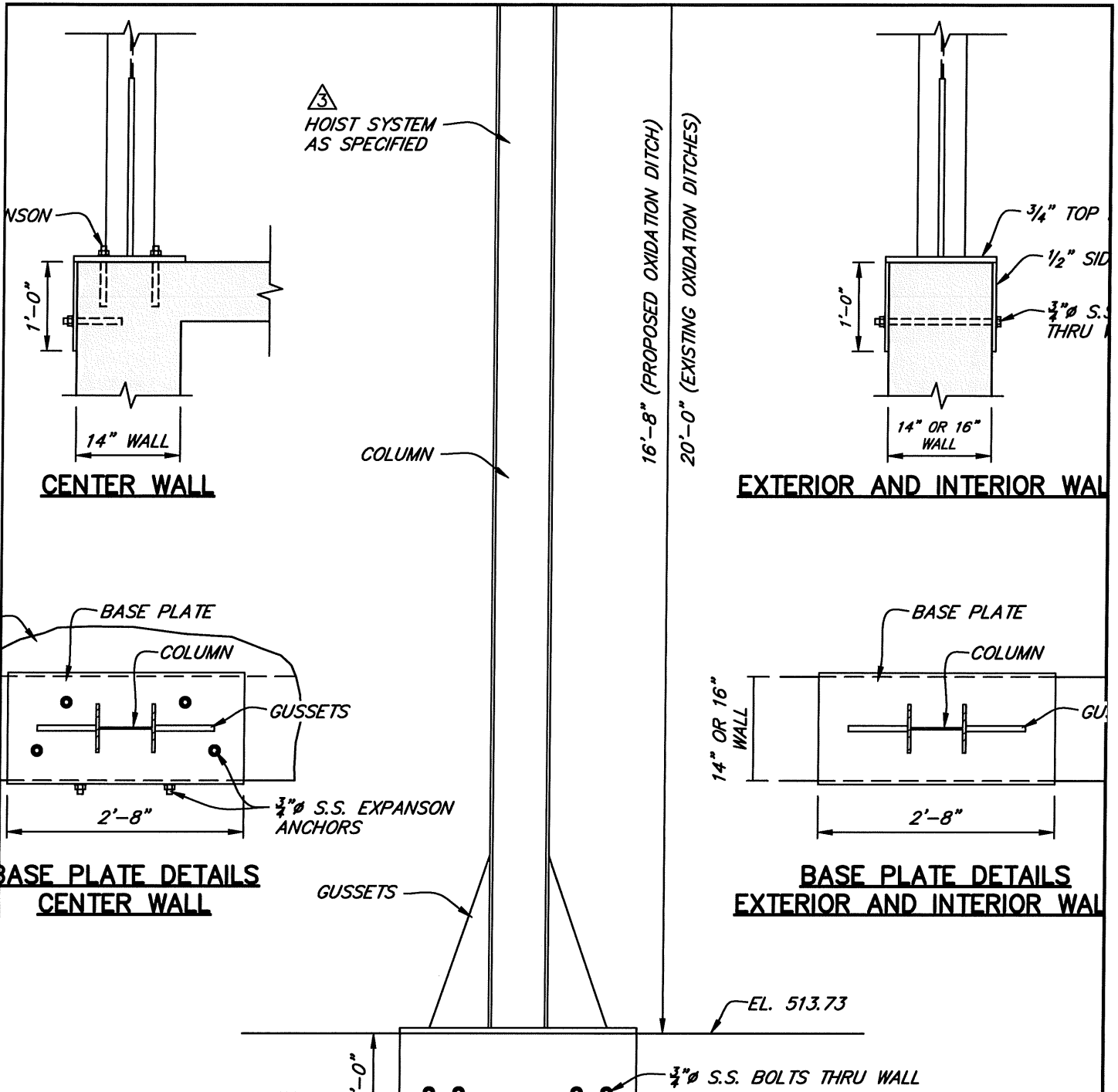
Telephone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

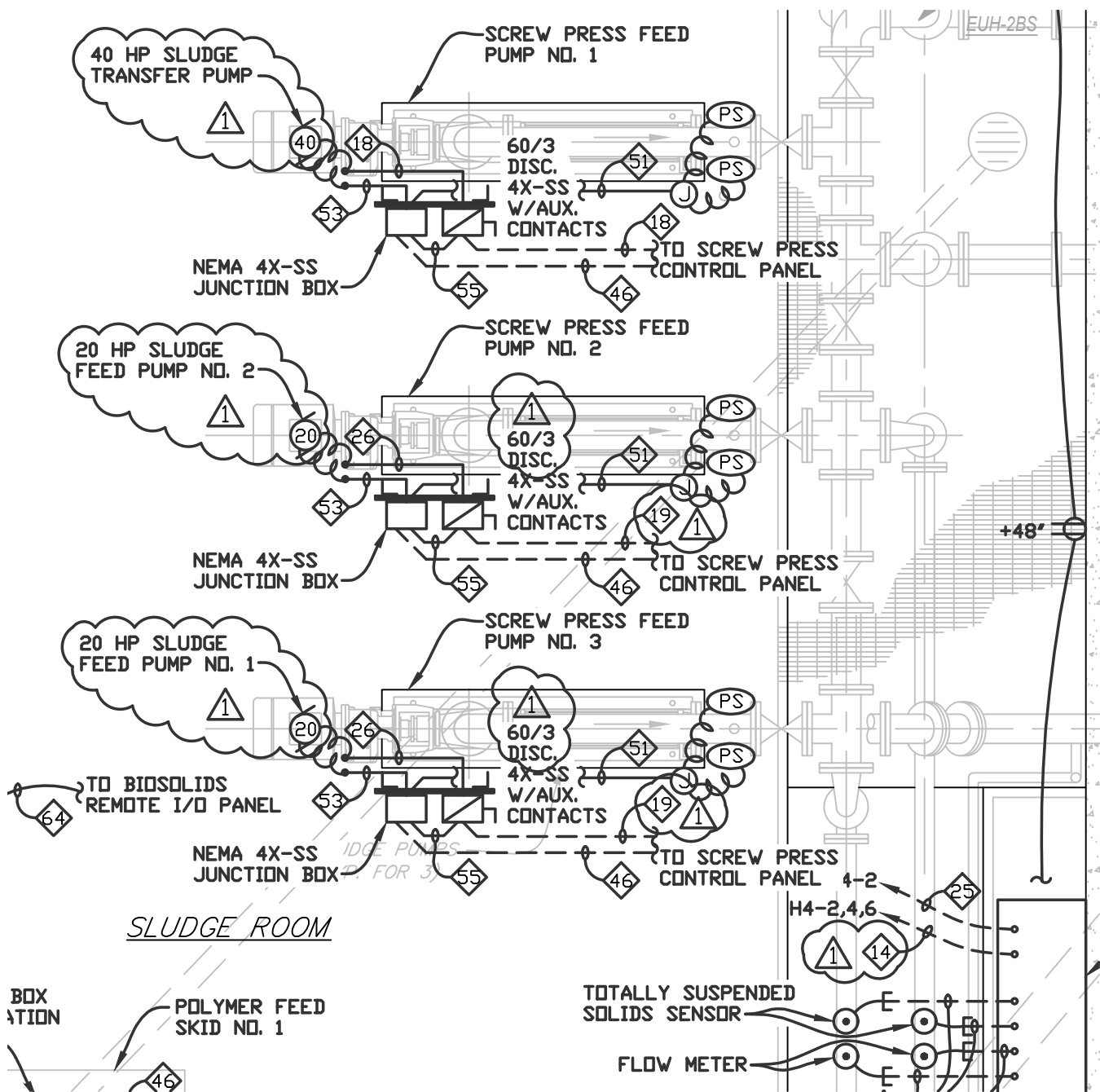
Contact Name and e-mail address: \_\_\_\_\_  
\_\_\_\_\_

Bidder's License No.: \_\_\_\_\_  
*(where applicable)*





SHEET <b>40</b> OF <b>97</b>		<b>SEWER SYSTEM IMPROVEMENTS</b> CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS ⚠ ADDENDUM NO. 1 11/25/19 AWR ⚠ ADDENDUM NO. 3 1/10/20 AWR ⚠ ADDENDUM NO. 7 2/4/20 AWR		<b>PROPOSED OXIDATION DITCH NO. 3</b> <b>TOP PLAN, SECTIONS AND DETAILS</b> FOR <b>HOPKINSVILLE WATER</b> <b>ENVIRONMENT AUTHORITY</b>	
PROJECT NUMBER <b>1983</b>		SCALE AS SHOWN	<b>WAUFORD</b> J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com
		DATE FEB. 2019	



SHEET E23 OF 38		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS		PROPOSED BIOSOLIDS DEWATERING BUILDING POWER LAYOUT	
1 ADDENDUM NO. 7 2/4/20		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
SCALE	AS SHOWN	<b>WAUFORD</b> J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	DESIGNED JDP
PROJECT NUMBER	DATE		DRAWN TWR
1983	FEB. 2019		CHECKED JDP



TYPE: \_\_\_\_\_  
 SERVICE: 277/480 V., 3 PH., 4 W.  
 POLES: 3




PANEL "H4" (SECTION 2)  
 (EQUIPPED W/SUB FEED LUGS)

BUS AMPACITY: 400 A.  
 MAINS: M.L.D.  
 NEUTRAL: FULL  
 SHORT CIRCUIT RATING: 65,000  
 NEMA 1  NEMA 3R

LOCATION: BIO-SOLIDS DEWATERING BLDG. \* UNLESS OTHERWISE NOTED, SIZE CONDUITS PER NEC. BASE ON TYPE THHN.  
 SURFACE  FLUSH


CKT. KVA			CB TRIP	* CONDUIT	WIRE	LOAD NAME			LOAD NAME	WIRE	* CONDUIT	CB TRIP	CKT. KVA		
φA	φB	φC											φA	φB	φC
3.3	—	—	20/3	3/4	#10	ELECTRIC HEATER "EUH-1BS"	43	44	EXHAUST FAN "EF-1BS"	#10	3/4	15/3	0.7	—	—
—	3.3	—			#10	ELECTRIC HEATER "EUH-1BS"	45	46	EXHAUST FAN "EF-1BS"	#10			—	0.7	—
—	—	3.3			#10	ELECTRIC HEATER "EUH-1BS"	47	48	EXHAUST FAN "EF-1BS"	#10			—	—	0.7
3.3	—	—	20/3	3/4	#10	ELECTRIC HEATER "EUH-2BS"	49	50	EXHAUST FAN "EF-2BS"	#10	3/4	15/3	0.7	—	—
—	3.3	—			#10	ELECTRIC HEATER "EUH-2BS"	51	52	EXHAUST FAN "EF-2BS"	#10			—	0.7	—
—	—	3.3			#10	ELECTRIC HEATER "EUH-2BS"	53	54	EXHAUST FAN "EF-2BS"	#10			—	—	0.7
2.5	—	—	15/3	3/4	#10	ELECTRIC HEATER "EUH-3BS"	55	56	SPARE			15/3	—	—	—
—	2.5	—			#10	ELECTRIC HEATER "EUH-3BS"	57	58	SPARE				—	—	—
—	—	2.5			#10	ELECTRIC HEATER "EUH-3BS"	59	60	SPARE				—	—	—
2.5	—	—	15/3	3/4	#10	ELECTRIC HEATER "EUH-4BS"	61	62	SPARE			30/3	—	—	—
—	2.5	—			#10	ELECTRIC HEATER "EUH-4BS"	63	64	SPARE				—	—	—
—	—	2.5			#10	ELECTRIC HEATER "EUH-4BS"	65	66	SPARE				—	—	—
1.5	—	—	20/1	3/4	#10	ELECTRIC HEATER "EWH-1BS"	67	68	SPACE				—	—	—
—	—	—	20/1			SPACE	69	70	SPACE				—	—	—
—	—	—	20/1			SPACE	71	72	SPACE				—	—	—
—	—	—				SPACE	73	74	SPACE				—	—	—
—	—	—				SPACE	75	76	SPACE				—	—	—
—	—	—				SPACE	77	78	SPACE				—	—	—
—	—	—				SPACE	79	80	SPACE				—	—	—
—	—	—				SPACE	81	82	SPACE				—	—	—
—	—	—				SPACE	83	84	SPACE				—	—	—

25.9 20.6 24.5 TOTAL CONNECTED KVA: 230.6  53.2 53.2 53.2 

SHEET <b>E35</b> OF <b>38</b>		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS		ELECTRICAL PANEL SCHEDULES - PAGE 2	
 ADDENDUM NO. 6 1/31/20  ADDENDUM NO. 7 2/4/20		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
SCALE AS SHOWN	DATE FEB. 2019	 J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	DESIGNED JDP
PROJECT NUMBER 1983			DRAWN TWR
			CHECKED JDP




TYPE: \_\_\_\_\_  
 SERVICE: 277/480 V., 3 PH., 4 W.  
 POLES: 3

PANEL "H4" (SECTION 1)  
 (EQUIPPED W/THRU FEED LUGS)

BUS AMPACITY: 400 A.  
 MAINS: \_\_\_\_\_ M.L.D.  
 NEUTRAL: FULL  
 SHORT CIRCUIT RATING: 65,000   
 NEMA 1  NEMA 3R

LOCATION: BIOSOLIDS DEWATERING BLDG. \* UNLESS OTHERWISE NOTED, SIZE CONDUITS PER NEC. BASE ON TYPE THHN.  
 SURFACE  FLUSH

CKT. KVA			CB TRIP	* CONDUIT	WIRE	LOAD NAME		LOAD NAME	WIRE	* CONDUIT	CB TRIP	CKT. KVA		
ΦA	ΦB	ΦC										ΦA	ΦB	ΦC
0.6	—	—	15/3	1"	#10	SLUDGE TANK 2 VALVE	1 2	SCREW PRESS PLC CONTROL PANEL	#2/0	2"	200/3	34.3	—	—
—	0.6	—			#10	SLUDGE TANK 2 VALVE	3 4	SCREW PRESS PLC CONTROL PANEL	#2/0			—	34.3	—
—	—	0.6			#10	SLUDGE TANK 2 VALVE	5 6	SCREW PRESS PLC CONTROL PANEL	#2/0			—	—	34.3
0.6	—	—	15/3	1"	#10	WAS VALVE	7 8	SCREW PRESS DISCHARGE CONVEYOR CP	#8	1"	40/3	7.6	—	—
—	0.6	—			#10	WAS VALVE	9 10	SCREW PRESS DISCHARGE CONVEYOR CP	#8			—	7.6	—
—	—	0.6			#10	WAS VALVE	11 12	SCREW PRESS DISCHARGE CONVEYOR CP	#8			—	—	7.6
0.3	—	—	15/3	1"	#10	POLYMER FEED SKID NO. 1	13 14	SHOP OVERHEAD DOOR	#10	3/4	15/3	1.2	—	—
—	0.3	—			#10	POLYMER FEED SKID NO. 1	15 16	SHOP OVERHEAD DOOR	#10			—	1.2	—
—	—	0.3			#10	POLYMER FEED SKID NO. 1	17 18	SHOP OVERHEAD DOOR	#10			—	—	1.2
0.3	—	—	15/3	1"	#10	POLYMER FEED SKID NO. 2	19 20	SCREW PRESS RM. OVERHEAD DOORS	#10	3/4	15/3	1.2	—	—
—	0.3	—			#10	POLYMER FEED SKID NO. 2	21 22	SCREW PRESS RM. OVERHEAD DOORS	#10			—	1.2	—
—	—	0.3			#10	POLYMER FEED SKID NO. 2	23 24	SCREW PRESS RM. OVERHEAD DOORS	#10			—	—	1.2
—	—	—	20/1			SPACE	25 26	AIR COMPRESSOR	#6	1"	60/3	7.5	—	—
—	—	—	20/1			SPACE	27 28	AIR COMPRESSOR	#6			—	7.5	—
—	—	—				SPACE	29 30	AIR COMPRESSOR	#6			—	—	7.5
—	—	—				SPACE	31 32	SPACE				—	—	—
—	—	—				SPACE	33 34	SPACE				—	—	—
—	—	—				SPACE	35 36	SPACE				—	—	—
11.0	—	—	100/3	1 1/2"	#3	TRANSFORMER "TL4"	37 38	SURGE PROTECTION DEVICE			60/3	—	—	—
—	7.2	—			#3	TRANSFORMER "TL4"	39 40	SURGE PROTECTION DEVICE				—	—	—
—	—	11.1			#3	TRANSFORMER "TL4"	41 42	SURGE PROTECTION DEVICE				—	—	—

SHEET E35 OF 38		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS		ELECTRICAL PANEL SCHEDULES - PAGE 2	
 ADDENDUM NO. 6 1/31/20  ADDENDUM NO. 7 2/4/20		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
SCALE AS SHOWN	DATE FEB. 2019	 J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	DESIGNED JDP
PROJECT NUMBER 1983			DRAWN TWR
			CHECKED JDP