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of original*

| | | | |
|---|---|--|-------------------------------------|
| LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT CONTRACT CHANGE ORDER | | DATE: Contract Modification: CONTRACT #: | September 10, 2018 2 186-2016 |
| PROJECT: West Hickman Wet Weather Storage and Wastewater Improvements Project | | | |
| TO: Judy Construction Company | | | |
| | | | |
| Original Contract Amount | | | \$61,307,000.00 |
| Cumulative Amount of Previous Contract Modifications | | | \$39,444.00 |
| Percent Change of Previous Contract Modifications | | | 0% |
| Existing Contract Amount | | | \$61,346,444.00 |
| | | | |
| Net (increase/decrease) in Contract Amount - (From following pages) | | | \$476,026.00 |
| Percent Change of This Contract Modification | | | 0.78% |
| | | | |
| Original Contract Amount | | | \$61,307,000.00 |
| Cumulative Amount of all Contract Modifications | | | \$515,470.00 |
| Percent Change of all Contract Modifications | | | 0.84% |
| | | | |
| New Contract Amount Including this Change Order | | | \$61,822,470.00 |
| | | | |
| Recommended by |  | (Proj. Engr.) | Date <u>9/11/18</u> |
| Accepted by | | (Consultant) | Date _____ |
| Accepted by |  | (Contractor) | Date <u>9/11/18</u> |
| Approved by |  | RMP CONSTRUCTION MANAGER (Director) | Date <u>9/11/18</u> |
| Approved by | | (Commissioner) | Date _____ |
| Approved by | | (Mayor or CAO) | Date _____ |

**LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
CONTRACT MODIFICATION**

DATE: September 10, 2018
Contract Mod #: 2
CONTRACT #: 186-2016

Project: West Hickman Wet Weather Storage and Wastewater Improvements Project
TO: Judy Construction Company

You are hereby requested to comply with the following changes from the contract plans and specifications;

| Item No. | ADD / DEL | Description of changes | Units | Quantity | Unit Price | Decrease in contract price | Increase in contract price |
|----------------------------------|-----------|---|-------|----------|------------|----------------------------|----------------------------|
| 1 | ADD | Owner requested changes or additions to the original design | LS | 1 | | \$ - | \$ 476,026.00 |
| 2 | ADD | | LS | 1 | \$ - | \$ - | \$ - |
| 3 | | | | | | \$ - | \$ - |
| 4 | | | | | | \$ - | \$ - |
| 5 | | | | | | \$ - | \$ - |
| 6 | | | | | | \$ - | \$ - |
| 7 | | | | | | \$ - | \$ - |
| 8 | | | | | | \$ - | \$ - |
| 9 | | | | | | \$ - | \$ - |
| 10 | | | | | | \$ - | \$ - |
| 11 | | | | | | \$ - | \$ - |
| 12 | | | | | | \$ - | \$ - |
| 13 | | | | | | \$ - | \$ - |
| 14 | | | | | | \$ - | \$ - |
| 15 | | | | | | \$ - | \$ - |
| Total decrease | | | | | | \$ - | |
| Total increase | | | | | | | \$ 476,026.00 |
| Net (increase) in contract price | | | | | | | \$ 476,026.00 |

JUSTIFICATION FOR CHANGE

PROJECT: WH WWS

CONTRACT NO. 186-2016

CHANGE ORDER: 2

1. Necessity for change: Owner requested changes or additions to the original design, and contractor proposals to lower construction costs
2. Is proposed change an alternate bid? ___Yes ___X No
3. Will proposed change alter the physical size of the project? X Yes ___No
If "Yes", explain. The tank size is increasing from 4MG to 6MG. The property footprint is not increasing.
4. Effect of this change on other prime contractors: N/A
5. Has consent of surety been obtained? X Yes ___Not Necessary
6. Will this change affect expiration or extent of insurance coverage? X Yes ___No
If "Yes", will the policies be extended? X Yes ___No
7. Effect on operation and maintenance costs: No
8. Effect on contract completion date: Project time has been increased by 152 days. Final completion date will be December 31, 2018.

Mayor_____
Date

CHANGE ORDER

No. 2

DATE OF ISSUANCE July 03, 2018 EFFECTIVE DATE July 03, 2018

OWNER Lexington-Fayette Urban County Government

CONTRACTOR Judy Construction Company

Contract: West Hickman Wet Weather Storage and Wastewater Improvements Project

Project: West Hickman Wet Weather Storage and Wastewater Improvements Project

OWNER'S Contract No. 186-2016 ENGINEER'S Contract No. 200-11681-15002

ENGINEER Tetra Tech, Inc.

You are directed to make the following changes in the Contract Documents:

Description: See Attached Part 1

Reason for Change Order: Items included in the attached Part I are results of clarifications of design intent, Owner requested changes or additions to the original design, and contractor proposals to lower construction costs.

Attachments: (List documents supporting change) Part 1 – Contract Amount Changes; Part 2 – Time Extensions; Change order proposal letters from Judy Construction Company

| CHANGE IN CONTRACT PRICE: |
|--|
| Original Contract Price: \$ <u>61,307,000.00</u> |
| Net Increase (Decrease) from Previous Change Orders No. <u>-</u> to <u>1</u> : \$ <u>39,444.00</u> |
| Contract Price Prior to this Change Order: \$ <u>61,346,444.00</u> |
| Net Increase (Decrease) of this Change Order: \$ <u>\$476,026.00</u> |
| Contract Price with all Approved Change Orders: \$ <u>61,822,470.00</u> |

| CHANGE IN CONTRACT TIMES: |
|---|
| Original Contract Times: <u>730 Days – August 01, 2018</u> (days or dates) |
| Net Change from Previous Change Orders No. <u> </u> to No. <u> </u> : <u>N/A</u> (days) |
| Contract Times Prior to this Change Order: <u>730 Days – August 01, 2018</u> (days or dates) |
| Net Increase (Decrease) this Change Order: <u>152 days</u> (days) |
| Contract Times with all Approved Change Orders: <u>882 Days – December 31, 2018</u> (days or dates) |

RECOMMENDED:
By: [Signature]
ENGINEER (Authorized Signature)

DATE: 7-3-18

APPROVED:
By: [Signature]
OWNER (Authorized Signature)

DATE: 8/2/18

APPROVED:
By: [Signature]
CONTRACTOR (Authorized Signature)

DATE: 7/9/18

Change Order No. 2
Lexington-Fayette Urban County Government
West Hickman Wet Weather Storage and Wastewater Improvements Project

July 03, 2018

Part 1 – Contract Amount Changes

| Item | Description | Unit | Estimated Quantity | Unit Price | Total Price |
|--------------|---|-------------|---------------------------|-------------------|---------------------|
| 1-1 | Addition of Paging System at existing office control room | LS | 1.0 | \$13,734.00 | \$13,734.00 |
| 1-2 | Eliminate the (4) each lock-out control stations and add (3) each disconnects at the Recycle Pumps | LS | 1.0 | \$9,044.00 | \$9,044.00 |
| 1-3 | Cost savings proposed by Electrical Subcontractor | LS | 1.0 | (\$88,137.00) | (\$88,137.00) |
| 1-4 | Credit given to delete the painting of the Generator Building interior galvanized steel ceiling structure | LS | 1.0 | (\$8,000.00) | (\$8,000.00) |
| 1-5 | Addition of expansion fittings | LS | 1.0 | \$98,355.00 | \$98,355.00 |
| 1-6 | Addition of valves to Non-Potable Water system | LS | 1.0 | \$61,317.00 | \$61,317.00 |
| 1-7 | Removal and replacement of electrical junction box located in Non-Potable Water building | T&M | Not to Exceed | \$21,057.00 | \$21,057.00 |
| 1-8 | Addition of lightning protection and relocation of existing alarm light at the Nitrification Building | LS | 1.0 | \$3,951.00 | \$3,951.00 |
| 1-9 | Addition of flashing at the base of the exterior walls of the Nitrification Building | LS | 1.0 | \$4,140.00 | \$4,140.00 |
| 1-10 | Modification of explosion proof CCTV camera system | LS | 1.0 | \$23,728.00 | \$23,728.00 |
| 1-11 | Modification of makeup air units from direct fired to indirect fired | LS | 1.0 | \$336,837.00 | \$336,837.00 |
| TOTAL | | | | | \$476,026.00 |

NOTES:

Item 1-1

- A. Measurement and payment for this item shall be on a lump sum basis for work completed, tested and operational to provide a paging system in the existing office control room.
- B. Item 1-1 includes a desk mounted digital DTMF Controller, VHF Base Radio Station, OMNI One Antenna/Mounting Bracket and conduit for the antenna cable. Reference RFI 014 and Field Order 014.

Item 1-2

- A. Measurement and payment for this item shall be on a lump sum basis for work completed, tested and operational to provide (3) each disconnects at the Recycle Pump Station pumps and to delete the (4) each lock-out control stations. Reference RFI 055 and Field Order 014.

Item 1-3

- A. Total credit given for cost savings proposed by the Electrical Subcontractor = (\$88,137.00) which includes the following:
 - a. Credit given for going from PVC coated conduit to rigid aluminum in exposed areas. Bitumastic paint is utilized where transitioning into concrete or earth. Subtotal = (\$32,688.00)
 - b. Credit given for going from schedule 80 PVC to schedule 40 or DB duct in duct banks and outside lighting. Subtotal = (\$11,349.00)
 - c. Credit for going from four-inch (4") base spacers to three-inch (3") base spacers in the duct bank. Subtotal = (\$7,200.00)
 - d. Credit for going from #3 rebar ties at eighteen inches on center (18" O.C.) to #3 rebar ties at sixty inches on center (60" O.C.). Subtotal = (\$12,600.00)
 - e. Credit for installing EMT conduit in office areas and electrical room in lieu of aluminum rigid conduit. Subtotal = (\$24,300.00)

Item 1-4

- A. The plans call for epoxy paint to be applied to the underside of the galvanized metal roof decking on the interior of the Generator Building. It was determined painting galvanized steel is not necessary and credit is being given in the amount of (\$8,000.00) for deletion of the epoxy paint. Reference Field Order 025.

Item 1-5

- A. Measurement and payment for this item shall be on a lump sum basis for work completed, tested and operational to provide expansion fittings at all locations where conduit transitions from below ground to above ground. Reference RFI 118 and Field Order 027.

Item 1-6

- A. Measurement and payment for this item shall be on a lump sum basis for work completed, tested and operational to provide additional valves and piping for the Non-Potable Water system. Reference Field Order 028.

Item 1-7

- A. Measurement and payment for this item shall be on a time and material, not to exceed total amount indicated basis for work completed, tested and operational to provide replacement of the existing electrical junction box above the pump gallery in the Non-Potable Water building. Reference Field Order 028.

Item 1-8

- A. Measurement and payment for this item shall be on a lump sum basis for work completed, tested and operational to provide addition of lightning protection and relocation of existing alarm light at the Nitrification Building. Reference Field Order 028.

Item 1-9

- A. Measurement and payment for this item shall be on a lump sum basis for work completed, tested and operational to provide copper flashing at the base of the Nitrification Building exterior walls per detail provided to Judy on 3/30/2018. Reference Field Order 028.

Item 1-10

- A. Measurement and payment for this item shall be on a lump sum basis for work completed, tested and operational to provide the modified CCTV camera system. Reference Field Order 031.
- B. Modifications to the CCTV camera system include:
 - a. Upgrade from old recorder platform (DS) to new recorder platform (VX). New recorder platform is capable of being upgraded. Old platform will no longer be supported by manufacturer.
 - b. Explosion proof cameras provided as complete package from manufacturer. Camera and explosion proof housing no longer purchased separately and assembled by Electrical Subcontractor.

Item 1-11

- A. Measurement and payment for this item shall be on a lump sum basis for work completed, tested and operational to provide modifications to makeup air handling units HV 1-1 and HV 1-2. The units will be modified from direct fired to indirect fired. Reference Field Order 032.

Part 2 – Time Extensions

| Item | Description | Added days |
|-------|---|------------|
| 2-1 | Extra days associated with additional work described in Judy Change Order Proposal #6 | 152 |
| | | |
| TOTAL | | 152 |

NOTES:

Item 2-1

- A. Judy Change Order Proposal #6 details additional electrical work required to be completed after clarification of electrical design intent. Extra days required to perform this additional work will change the Beneficial Use date to December 31, 2018.



P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (859) 234-5900 Fax (859) 234-3480
www.judyconstructionco.com

March 11, 2017

Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503
Attn: Herb Lemaster, PE

Ref: West Hickman Wet Weather Storage
Change Order Proposal No. 8
RFI No.14

Dear Mr. Lemaster,

I am writing in response to the answer of RFI No. 14. We have prepared the following proposal to furnish and install a desk mounted digital DTMF Controller, VHF Base Radio Station, OMNI One Antenna/Mounting Bracket and conduit for antenna cable at the existing office.

Addition of Paging System \$13,734.00

If this proposal is acceptable, please include it in your next change order.

Sincerely,

Paul Lawrence

cc: Ben Williams
Darryl Wells
Tim Courtney
COP File

PL/mc



JUDY

Construction Co.
GENERAL CONTRACTORS

P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (859) 234-6900 Fax (859) 234-3480
www.judyconstructionco.com

March 11, 2017

Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503
Attn: Herb Lemaster, PE

Ref: West Hickman Wet Weather Storage
Change Order Proposal No. 9
RFI No. 55

Dear Mr. Lemaster,

I am writing in response to the answer to RFI No. 55. We have prepared the following proposal to provide 3(ea.) additional disconnects at the Recycle Pumps and delete the 4(ea.) Lock-out Control Stations. This includes credits for labor and wiring.

| | |
|--------------------------------------|---------------------|
| 3(ea.) Disconnects | \$12,326.00 |
| Credit for Lock-out Control Stations | <u>\$(3,282.00)</u> |
| Total | \$ 9,044.00 |

*Note the 4(ea.) terminal boxes will need to stay to make terminations from the cord to the monitoring cables.

If this proposal is acceptable, please notify us and include it in your next change order.

Sincerely,



Paul Lawrence

cc: Ben Williams
Darryl Wells
Tim Courtney
COP File



PL/mc





P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (259) 234-6900 Fax (259) 234-3480
www.judyconstructionco.com

September 7, 2017

Herb Lemaster, PE
Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503

Re: West Hickman Wet Weather Storage
Change Order Proposal No. 10

Dear Mr. Lemaster,

The electrician has offered the following credits for material changes to conduit, duct banks, concrete encasement, etc.

- 1) Credit for going from PVC coated conduit to rigid aluminum in exposed areas. We will utilize bitumastic paint where transitioning into concrete or earth.
Subtotal = \$32,688.00
- 2) Credit for going from Schedule 80 PVC conduit to Schedule 40 or DB duct in duct banks and outside lighting.
Subtotal = \$11,349.00
- 4) Credit for going from 4" base spacers to 3" base spacers in the duct bank.
Subtotal=\$7,200.00
- 5) Credit for going to #3 rebar ties on 18" O.C. to 60" O.C. (5 foot).
Subtotal=\$12,600.00
- 8) Credit for installing EMT conduit in office areas and electric room in lieu of aluminum rigid conduit.
Subtotal=\$24,300.00

If this proposal is acceptable, please notify us and incorporate it into a future change order. Feel free to contact me if you have any questions.

Sincerely,


Paul Lawrence

cc: Ben Williams
Darryl Wells
Tim Courtney
COP File

PL/an





P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (859) 234-6900 Fax (859) 234-3480
www.judyconstructionco.com

November 9, 2017

Herb Lemaster, PE
Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503

Re: West Hickman Wet Weather Storage
Change Order Proposal No. 11

Dear Mr. Lemaster,

We have prepared the following proposal to delete the painting at the exposed galvanized ceiling structure in the Generator Building.

- Credit to delete painting at Generator Building Ceiling ~~\$8,000~~

If this proposal is acceptable, please notify us and incorporate it into the next change order. Feel free to contact me if you have any questions.

Sincerely,

Paul Lawrence

cc: Ben Williams
Darryl Wells
Tim Courtney
COP File

PL/kw





P.O. BOX 457 CYNTHIANA KENTUCKY 40301
Telephone (859) 234-6900 Fax (859) 234-0430
www.jccconstructionco.com

February 5, 2018

Herb Lemaster, PE
Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503

Re: West Hickman Wet Weather Storage
Change Order Proposal No. 12

Dear Mr. Lemaster,

We have prepared the following proposal to expansion fittings on all conduit as directed. We have broken out the cost for the fittings at the Recycle Pump Station since these are 6" conduits and the electrician does not feel they are necessary.

| | |
|--|--------------------|
| • Provide expansion joint fittings on all site conduit except the Recycle PS | \$77,526.00 |
| • Provide expansion joint fitting on conduit at the Recycle PS | \$8,000.00 |
| • JCC overhead and profit | <u>\$12,829.00</u> |
| TOTAL | \$98,355.00 |

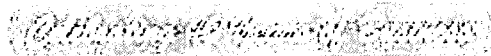
If this proposal is acceptable, please notify us and incorporate it into the next change order. Feel free to contact me if you have any questions.

Sincerely,

Paul Lawrence

cc: Ben Williams
Darryl Wells
Tim Courtney
COP File

PL/kw





P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (859) 234-6900 Fax (859) 234-3480
www.judyconstructionco.com

March 8, 2018

Herb Lemaster, PE
Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503

Re: West Hickman Wet Weather Storage
Change Order Proposal No. 14

Dear Mr. Lemaster,

Per your request, we have prepared the following proposal to provide additional valves and piping to the NPW system as detailed in the drawings sent on 02/12/2018.

- 3 ea. 6" Check Valves and 3 ea. 6" Gate Valves at Pumps
- 2 ea. 10" Gate Valves and Piping for temporary connection
- 2 ea. 6" Gate Valves and Piping near Booster Pumps
- 2 ea. 4" Gate Valves in Corridor and Lime Basement
- Replace NWSL Piping

Total.....\$61,317.00

If this proposal is acceptable, please notify me and incorporate it into the next change order. We request the opportunity to add additional time to the contract after beneficial use by the Owner is accomplished if necessary. Feel free to contact me if you have any questions regarding this proposal.

Sincerely,

Paul Lawrence

cc: Ben Williams
Darryl Wells
COP File

PL/kw



Celebrating 40 Years of Business





P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (659) 234-6900 Fax (659) 234-3480
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March 28, 2018

Herb Lemaster, PE
Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503

Re: West Hickman Wet Weather Storage
Change Order Proposal No. 15 for Electrical Junction Box Replacement

Dear Mr. Lemaster,

Per your request, we have prepared the following proposal to remove and replace the electrical junction box located in the Non-Potable Water Building. This pricing includes temporary power to the various circuits affected by the removal of the existing junction box to avoid interruption of electrical service to the plant.

| | |
|---|--------------------|
| • TEM Electric's cost to replace Junction Box | \$18,130.00 |
| • Judy Construction Company overhead and profit | \$ 2,927.00 |
| Total..... | \$21,057.00 |

If this proposal is acceptable, please notify us and incorporate it into a future change order. Feel free to contact me if you have any questions regarding this proposal.

Sincerely,



Paul Lawrence

cc: Ben Williams
Darryl Wells
COP File

PL/kw





P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (859) 234-6900 Fax (859) 234-3480
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March 28, 2018

Herb Lemaster, PE
Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503

Re: West Hickman Wet Weather Storage
Change Order Proposal No. 16 for NTR Building Exterior Electrical

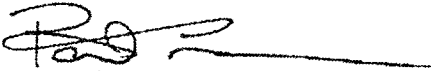
Dear Mr. Lemaster,

Per your request, we have prepared the following proposal to provide lightning protection and to relocate the existing alarm light at the NTR Building per Field Order # 21 Item 2.

- TEM Electric's cost for Lightning Protection
and relocation of Alarm Light\$3,402.00
- Judy Construction Company overhead and profit\$ 549.00
- Total.....\$3,951.00**

If this proposal is acceptable, please notify us and incorporate it into a future change order. Feel free to contact me if you have any questions regarding this proposal.

Sincerely,


Paul Lawrence

cc: Ben Williams
Darryl Wells
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PL/kw





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March 28, 2018

Herb Lemaster, PE
Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503

Re: West Hickman Wet Weather Storage
Change Order Proposal No. 21 for Flashing at Nitrification Building

Dear Mr. Lemaster,

Per your request, we have prepared the following proposal to install copper flashing at the base of the exterior walls of the Nitrification Building per the details you emailed on 3/30/2018.

- Flashing at Nitrification Building Walls \$ 3,600.00
- Judy Construction Company overhead and profit\$ 540.00
- Total.....\$ 4,140.00**

If this proposal is acceptable, please notify us and incorporate it into a future change order. Feel free to contact me if you have any questions regarding this proposal.

Sincerely,

Paul Lawrence

cc: Ben Williams
Darryl Wells
COP File

PL/kw





P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
Telephone (659) 234-6900 Fax (659) 234-3480
www.judyconstructionco.com

May 21, 2018

Herb Lemaster, PE
Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503

Re: West Hickman Wet Weather Storage
Change Order Proposal No. 22 for Changes to the Security System

Dear Mr. Lemaster,

Per your request, we have prepared the following proposal for the Security System. All changes have been coordinated by LFUCG and Schneider Electric. Neither Judy Construction Company, nor our electrical subcontractor has been involved in any design meetings. The full scope of the changes will not be known until the submittals are received. Due to this, the proposal is for material and documentation cost only.

- TEM cost to provide changes to security camera system per Schneider Electric's scope dated 4/26/18 \$ 20,633.00
- Judy Construction Company overhead and profit \$ 3,095.00
- Total..... \$23,728.00**

If this proposal is acceptable, please notify us and incorporate it into a future change order. Feel free to contact me if you have any questions regarding this proposal.

Sincerely,

Paul Lawrence

cc: Ben Williams
Darryl Wells
COP File

PL/kw





P.O. BOX 457 CYNTHIANA, KENTUCKY 41031
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July 2, 2018

Herb Lemaster, PE
Tetra Tech
424 Lewis Hargett Circle, Suite 110
Lexington, KY 40503

Re: West Hickman Wet Weather Storage
Change Order Proposal No. 23 Indirect Fired Roof Top Units

Dear Mr. Lemaster,

Per your request, we have prepared the following proposal to change HV-1-1 & HV-1-2 from direct fired gas units to indirect fired gas units.

- Additional cost of MAFNA indirect fired gas rooftop units \$ 336,837.00

If this proposal is acceptable, please notify us and incorporate it into a future change order. Feel free to contact me if you have any questions regarding this proposal.

Sincerely,

Paul Lawrence

cc: Ben Williams
Darryl Wells
COP File

PL/kw





TETRA TECH

July 13, 2018

Kevin Levesque, P.E.
Division of Water Quality
125 Lisle Industrial Avenue, Suite 180
Lexington, Kentucky 40511

Re: *West Hickman Wet Weather Storage Facility
Lexington-Fayette Urban County Government
Change Order No. 2*

Dear Mr. Levesque:

Tetra Tech has reviewed the attached Change Order No. 2 proposed by Judy Construction Company (Judy). Following is a description of the change order items. Documentation and breakdowns of the change order requests are attached.

Item 1-1

Judy has provided a lump sum cost of **\$13,734.00** for providing a new paging system. The paging system will consist of a desk mounted digital DTMF Controller, VHF Bas Radio Station, OMNI One Antenna/Mounting Bracket, and conduit for antenna cable at the existing office. Reference Field Order 014 and RFI 014.

Item 1-2

Judy has provided a lump sum cost of \$12,326.00 to provide three (3) additional disconnects at the Recycle Pumps. A credit of (\$3,282.00) is being given for deleting the four (4) lock-out control stations that were included in the original design. Total cost for this item is **\$9,044.00**. Reference Field Order 014 and RFI 055.

Item 1-3

Judy has provided a list of credits offered by their electrical subcontractor, TEM, that total **(\$88,137.00)** and include the following:

- 1) Going from PVC coated conduit to rigid aluminum in exposed areas. Bitumastic paint is utilized where transitioning into concrete or earth. Subtotal = (\$32,688.00)
- 2) Going from schedule 80 PVC to Schedule 40 or DB duct in duct banks and outside lighting. Subtotal = (\$11,349.00)
- 3) Going from four-inch (4") base spacers to three-inch (3") base spacers in the duct bank. Subtotal = (\$7,200.00)
- 4) Going from #3 rebar ties at eighteen inches on center (18" O.C.) to #3 rebar ties at sixty inches on center (60" O.C.). Subtotal = (\$12,600.00)
- 5) Installing EMT conduit in office areas and electrical room in lieu of aluminum rigid conduit. Subtotal = (\$24,300.00)

Tetra Tech, Inc.



TETRA TECH

Item 1-4

Judy has provided a lump sum credit of **(\$8,000.00)** to delete the painting of the interior galvanized metal deck ceiling in the Generator Building. Reference Field Order 025.

Item 1-5

Judy has provided a lump sum cost of **\$98,355.00** for providing expansion fittings on all electrical conduit transitioning from below ground to above ground. Reference Field Order 027 and RFI 118.

Item 1-6

Judy has provided a lump sum cost of **\$61,317.00** for providing additional valves and replacing existing piping for the Non-Potable Water system. Reference Field Order 028.

Item 1-7

Judy has provided a time and material cost not to exceed **\$21,057.00** to replace the electrical junction box above the NPW pump gallery. Reference Field Order 028.

Item 1-8

Judy has provided a lump sum cost of **\$3,951.00** for the addition of lightning protection and relocation of existing alarm light at the Nitrification Building. Reference Field Order 028.

Item 1-9

Judy has provided a lump sum cost of **\$4,140.00** to provide copper flashing at the base of the Nitrification Building exterior walls per detail provided to Judy on 3/30/2018. Reference Field Order 028.

Item 1-10

Judy has provided a lump sum cost of **\$23,728.00** for modifications to the explosion proof CCTV camera system. The lump sum breakdown is as follows: TEM cost to provide changes to security camera system, \$20,633.00; Judy Construction overhead and profit, \$3,095.00. Reference Field Order 031.

Item 1-11

Judy has provided a lump sum cost of **\$336,837.00** for modifications to makeup air handling units HV 1-1 and HV 1-2. The units will be modified from direct fired to indirect fired. Reference Field Order 032.



TETRA TECH

The total cost of the Change Order is **\$476,026.00**. Please see the attached Change Order No. 2 provided for a unit price and quantity breakdown. The approved, revised contract amount with this change order will be **\$61,822,470.00**.

Please call myself, or Ryan Rathfon, at 859-223-8000 if you have any questions or need additional information.

Sincerely,

Herbert R. Lemaster, P.E.
Herb.lemaster@tetratech.com

Cc: Ryan Rathfon, Tt

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