

**RESOLUTION AUTHORIZING CONTRACT MODIFICATION #03
FOR THE PURAC PHASE III PROJECT**

MOTIONED BY: Gardiner
SECONDED BY: Friedrich

WHEREAS, the North Hudson Sewerage Authority (hereinafter "Authority") is a public body, duly formed under the Sewerage Authorities law, constituting Chapter 138 of the Laws of New Jersey of 1946, as amended (Chapter 14A of Title 40 of the New Jersey Statutes Annotated) and possesses the powers set forth therein; and

WHEREAS, pursuant to the approval granted by virtue of R.18-061, the Authority has contracted with Rapid Pump & Meter Service Co., N.J. in the amount of \$11,862,950.00 for the Purac Phase III Project; and

WHEREAS, two previous contract modifications totaling \$31,191.05 were approved increasing the total contract price to \$11,894,414.05; and

WHEREAS, this contract modification has been requested in order to efficiently advance the project as described in the report identified as "Exhibit A", with the additional work being documented as required by JACOBS, the project engineer at no additional cost to the Authority; and

WHEREAS, the Facilities Review Board has reviewed the proposal and recommends the approval of the requested contract modification.

NOW, THEREFORE, BE IT RESOLVED that the Authority hereby authorizes the execution and implementation of said contract modification # 03 with no increase in contract..

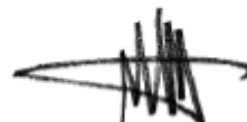
DATED: APRIL 15, 2021

RECORD OF COMMISSIONERS' VOTE

RECORD OF COMMISSIONERS' VOTE

	YES	NO	ABSENT
Commissioner Soares	x		
Commissioner Kappock	x		
Commissioner Marotta			x
Commissioner Gardiner	x		
Commissioner Friedrich	x		
Commissioner Guzman	x		
Commissioner Velazquez			x
Commissioner Barrera	x		
Commissioner White	x		

THIS IS TO CERTIFY THAT THIS RESOLUTION WAS DULY ADOPTED BY THE NORTH HUDSON BOARD OF COMMISSIONERS ON APRIL 15, 2021.



SECRETARY

April 1, 2021

William P. Machotka, P.E.
Section Chief
State of New Jersey Department of Environmental Protection
Municipal Finance and Construction Element
P.O. Box 425
Trenton, NJ 08625-0425

Subject: North Hudson Sewerage Authority
Project No. S340952-30
PURAC System Improvements Phase 3 – Physical System Improvements
Contract Modification No. P-03

Dear Mr. Machotka:

We have found it necessary to issue the following Contract Modification to the PURAC System Improvements Phase 3 – Physical System Improvements Project:

No. P-03:

- Labor to Remove and Reinstall New 6” DeZurik Butterfly Valves
- Additional Labor and time due to unforeseen Site Conditions During Media Removal (55 Additional Calendar Days)
- **(Credit)** Unit Price Item U1 Provision for Steel Welded Pipe ALLOWANCE
- **(Credit)** Unit Price Item U2 Fuel Pricing Adjustment
- **(Credit)** Unit Price Item U4 Structural Crack Repair
- **(Credit)** Unit Price Item U6 Overhead Concrete Repair
- **(Credit)** Unit Price Item U7 Horizontal Concrete Repair
- **(Credit)** Unit Price Item U8 Steel Pipe Corrosion Inspection ALLOWANCE
- Contract Time Adjustment for COVID related Media Supplier Change (15 Additional Calendar Days)
- Contract Time Adjustment for Structural Repairs in Cells (40 Additional Calendar Days)
- Contract Time Adjustment Modification Skimmer Flight Modifications (10 Additional Calendar Days)
- Contract Time Adjustment Modification Filter Cell Level Transmitters (5 Additional Calendar Days)

Total Amount of the Modification No. P-03: \$0

Attached are two (2) copies of the completed NJDEP “Contract Modification Proposal and Acceptance Form”, for the above-mentioned Contract Modification. The copies have been signed by the North Hudson Sewerage Authority (the Owner), Rapid Pump and Meter Service Co., Inc. (the Contractor) and signed and sealed by Jacobs (the Engineer). We would appreciate your review and approval of this modification.

Should you have any questions or require additional information, please call me at
862.242.7067

Sincerely,

CH2M HILL

A handwritten signature in black ink that reads "Shivani Patel". The signature is written in a cursive style with a large initial 'S'.

Shivani Patel, P.E.
Project Manager

Cc: Fredric J. Pocci, P.E., NHSA
Steven Marsich, PE, Rapid Pump
Steve Kulcsar, PE, Rapid Pump
Dejan Davidovic, Jacobs
Michael Curley, NJDEP
NJO File

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

1. ISSUING OFFICE North Hudson Sewerage Authority	2. PROJECT NO. S340952-30	3. CONTRACT NO. PURAC System Upgrades Phase 3-Services During Construction	4. MODIFICATION NO. Mod # P-03
5. TO (CONTRACTOR) Rapid Pump & Meter Service Co. Inc 285 Straight Street PO Box AY Paterson, NJ 07509		6. PROJECT LOCATION AND DESCRIPTION Adams Street WWTP Hoboken, New Jersey	
7. A proposal is required for making the hereinafter described change in accordance with specification and drawing revisions cited herein or listed in attachment hereto. Submit your proposal in space indicated on page 2, attach detailed breakdown of prime and sub-contract costs (See the clause of this contract entitled, "Changes". DO NOT start work under this proposed change until you receive a copy signed by the Contracting Officer of a directive to proceed).			
4/1/2021 <hr style="width: 100%;"/> Date	Shivani Patel, P.E./Project Manager <hr style="width: 100%;"/> Type Name and Title	<hr style="width: 100%;"/> Signature	
8. DESCRIPTION OF CHANGE: <i>Pursuant to the clause of this contract covering changes, the contractor shall furnish all labor and material, and all work necessary to accomplish the following described work:</i>			
See Attachment A			

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

As a result of the above, the contract price and times are revised as follows:

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>TOTAL COST</u>
1	Labor to Remove and Reinstall New 6" DeZurik Butterfly Valves **	\$49,405.39
2	Additional Labor and Time due to Unforeseen Site Conditions during Media Removal (55 Additional Calendar Days)	\$103,309.55
3	(Credit) Unit Price Item U1 Provision for Welded Steel Pipe ALLOWANCE	(\$57,852.84)
4	(Credit) Unit Price Item U2 Fuel Pricing Adjustment	(\$5,000.00)
5	(Credit) Unit Price Item U4 Structural Crack Repair	(\$38,148.00)
6	(Credit) Unit Price Item U6 Overhead Concrete Repair	(\$10,357.50)
7	(Credit) Unit Price Item U7 Horizontal Concrete Repair	(\$25,200.00)
8	(Credit) Unit Price Item U8 Steel Pipe Corrosion Inspection ALLOWANCE	(\$16,157.10)
9	Contract Time Adjustment for COVID related Media Supplier Change (15 Additional Calendar Days)	Cost approved under MOD P-01
10	Contract Time Adjustment for Structural Repairs in Cells (40 Additional Calendar Days)	Paid via Unit Price Items U3-U7
11	Contract Time Adjustment Modification Skimmer Flight Modifications (10 Additional Calendar Days)	Cost approved under MOD P-02
12	Contract Time Adjustment Modification Filter Cell Level Transmitters (5 Additional Calendar Days)	Cost approved under MOD P-02

TOTAL COST THIS MODIFICATION \$0 _____

The contract time is hereby: *increased* *decreased* or *remaining the same* as a result of this modification.

** - Contract times for this item to be visited at a later time

The foregoing modification is hereby accepted:

_____	_____	_____
Rapid Pump & Meter Service Co, Inc.	North Hudson Sewerage Authority	Jacobs
CONTRACTOR	OWNER	(NJPE SEAL) ENGINEER
BY: _____	BY: _____	BY: _____
DATE: _____	DATE: _____	DATE: _____

APPROVAL: _____

STATE OF NEW JERSEY DATE

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

9. ISSUING OFFICE North Hudson Sewerage Authority	10. PROJECT NO. S340952-30	11. CONTRACT NO. PURAC System Upgrades Phase 3 Services During Construction	12. MODIFICATION NO. Mod # P-03
13. CONTRACTOR'S PROPOSAL – CHANGE IN CONTRACT PRICE (Detailed breakdown, attach additional sheets as necessary)			
(Proposed) See Attachment B			
By executing this Change Order No. P-03 for the PURAC System Upgrades Phase 3 Services During Construction Project the Contractor acknowledges that its terms provide full and final settlement of any and all claims against Owner arising from or relating to the changed work. Contractor hereby releases Owner from and waives all claims, demands, suits or actions, whether legal or equitable, known or unknown relating to the changed work including, without limitation, claims for damages arising from delays, suspensions, standby costs, home and field office overhead costs, lost profits, breach of contract, cardinal change or abandonment.			
NET INCREASE \$ <u>0</u>		NET DECREASE \$ <u>0</u>	
		CALENDER DAYS INCREASE <u>125</u> DAYS	
DATE:	TYPE NAME AND TITLE:	SIGNATURE:	

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

14. ISSUING OFFICE & PROJECT NO. North Hudson Sewerage Authority, S340952-04	15. CONTRACT NO. PURAC System Upgrades Phase 3 Services During Construction	16. MODIFICATION NO. Mod # P-03
17. ORIGINAL CONTRACT BID PRICE.....\$ 11,862,950.00 TOTAL OF PREVIOUS CHANGE ORDERS.....\$ 31,191.05 TOTAL CONTRACT COST INCLUDING CHANGE.....\$ 11,894,141.05		
18. NECESSITY FOR CHANGE AND REASON FOR OMISSION FROM PLANS AND SPECIFICATIONS: See Attachment C		
19. OTHER IMPACTS RESULTANT OF THIS CHANGE: An increase in contract time is anticipated and has been detailed Attachment A. .		
20. RESUME OF NEGOTIATIONS OR RECOMMENDATIONS (Loanee's Representative): 		
DATE:	TYPE NAME AND TITLE OF LOANEE'S REPRESENTATIVE:	SIGNATURE:

Attachment A

DESCRIPTION OF CHANGE

Issuing Office: North Hudson Sewerage Authority

Project Number: S340952-30

Modification No: P-03

Box No. 8: DESCRIPTION OF CHANGE

1. Labor to Remove and Reinstall New 6" DeZurik Butterfly Valves
 - a. The PURAC system contains 10 filter cells in total which among other appurtenances, contains 2 – 6-inch butterfly valves in each of the 10 filter cells and 3 – 6-inch butterfly valves for the air saturation tanks for a total of 23 – 6-inch butterfly valves. The 6-inch butterfly valves located on the filter recycle system must open/close during a backwash cycle. The specified valves were selected as they are AIS compliant, however after installation the valves have become corroded and are failing to properly open/close when required. From the Engle Metallurgical analysis performed by the manufacturer it was apparent that the media in the fluid attacks the carbon steel BHP valve body, causing rust (iron oxide) buildup. In consultation with the manufacturer they feel that the BOS-US butterfly valve would be a better fit for the environment of the PURAC System as the body of the BOS-US valve is ductile iron and is fully lined with nitrile rubber (NBR). The manufacturer will replace these valves at no cost to the Owner, however, there are labor costs associated to this for the Contractor. The change in contract time will be visited at a later time.

2. Additional Labor and Time due to Unforeseen Site Conditions during Media Removal (55 additional calendar days)
 - a. The existing media in the 10 filter cells should have been located above the filter tiles, however during demolition about 1 foot of media was located under the tiles. This unforeseen site condition required additional time and labor (4 working days per cell for an equivalent of 55 calendar days) for the Contractor to be able to remove the tiles and media below them.

3. **(Credit)** Unit Price Item U1 Provision for Welded Steel Pipe ALLOWANCE
 - a. Credit of Allowance Item for Welded Steel Pipe and Appurts

4. **(Credit)** Unit Price Item U2 Fuel Pricing Adjustment
 - a. Credit of Unit Price Item for Fuel Pricing Adjustment

5. **(Credit)** Unit Price Item U4 Structural Crack Repair
 - a. Credit of Unit Price Item for Vertical Concrete Repair

6. **(Credit)** Unit Price Item U6 Overhead Concrete Repair
 - a. Credit of Unit Price Item for Horizontal Concrete Repair

7. **(Credit)** Unit Price Item U7 Horizontal Concrete Repair
 - a. Credit of Unit Price Item for Steel Pipe Inspection

8. **(Credit)** Unit Price Item U8 Steel Pipe Corrosion Inspection ALLOWANCE
 - a. Credit of Allowance Item for Steel Pipe Corrosion Inspection

9. Contract Time Adjustment for COVID related Media Supplier Change
 - a. Initial Media Installer for Filter Cells 9 and 10 was supposed to start media installation of media on 3/23/20. However, due to COVID travel restrictions, this subcontractor was unable to install media per the schedule. The Contractor was able to find a local sub to fulfil this this work which began on 4/6/20. Therefore an addition of 15 calendar days has been added for the change in media supplier for Filter Cells 9 and 10.

10. Contract Time Adjustment for Structural Repair in Cells
 - a. Structural repairs were required for each of the cells that were not fully understood until the interior of the cells were demolished. Contractor required 3 working days for each filter cell for a total of 30 working days which equates to about 40 calendar days.

11. Contract Time Adjustment for Skimmer Flight Modifications
 - a. Addition of 10 calendar days due to skimmer flight modifications as a result of supplier produced material requiring field adjustment.

12. Contract Time Adjustment for Filter Cell Level Transmitters
 - a. Addition of 5 calendar days due to troubleshooting required for the existing filter cell level transmitter that were approved to be replaced under MOD P-02.

Attachment B

CONTRACTOR'S PROPOSAL – CHANGE IN CONTRACT PRICE

Issuing Office: North Hudson Sewerage Authority

Project Number: S340952-30

Modification No: P-03

Box No. 13: CONTRACTOR'S PROPOSAL – CHANGE IN CONTRACT PRICE

1. Labor to Remove and Reinstall New 6" DeZurik Butterfly Valves
 - a. Cost Proposal (PCO) received from Rapid Pump via email on March 12, 2021.
2. Additional Labor and Time due to Unforeseen Site Conditions during Media Removal (55 additional calendar days)
 - a. Cost Proposal (PCO) received from Rapid pump via email on March 12, 2021.
3. **(Credit)** Unit Price Item U1 Provision for Welded Steel Pipe ALLOWANCE
 - a. Reduction in Cost in Unit Price Item U1 as it will no longer be needed.
4. **(Credit)** Unit Price Item U2 Fuel Pricing Adjustment
 - a. Reduction in Cost in Unit Price Item U2 as it will no longer be needed.
5. **(Credit)** Unit Price Item U4 Structural Crack Repair
 - a. Reduction in Cost in Unit Price Item U4 as it will no longer be needed.
6. **(Credit)** Unit Price Item U6 Overhead Concrete Repair
 - a. Reduction in Cost in Unit Price Item U6 as it will no longer be needed.
7. **(Credit)** Unit Price Item U7 Horizontal Concrete Repair
 - a. Reduction in Cost in Unit Price Item U7 as it will no longer be needed.
8. **(Credit)** Unit Price Item U8 Steel Pipe Corrosion Inspection ALLOWANCE
 - a. Reduction in Cost in Unit Price Item U8 as it will no longer be needed.
9. Contract Time Adjustment for COVID related Media Supplier Change
 - a. Addition of 15 calendar days due to change in media supplier. Contract cost change approved under MOD P-01.
10. Contract Time Adjustment for Structural Repair in Cells
 - a. Addition of 40 calendar days due to unforeseen structural cell repairs. Additional work effort paid under Unit Price Items U3 through U7.

11. Contract Time Adjustment for Skimmer Flight Modifications

- a. Addition of 10 calendar days due to skimmer flight modifications as a result of supplier produced material requiring field adjustment. Contract cost change approved under MOD P-02.

12. Contract Time Adjustment for Filter Cell Level Transmitters

- a. Addition of 5 calendar days due to troubleshooting required for the existing filter cell level transmitters that were approved to be replaced under MOD P-02.

NNSA PURAC System
PCO Cost Breakdown
FOR DISCUSSION PURPOSES ONLY

Description: PCO for Labor to remove and reinstall 6" Dezurik Recycle Valves from (10) Filter Cells

1.	Payroll Costs:					
	See page 2 of Proposal	<u>Trade</u>	<u>Hours</u>	<u>Rate</u>		<u>Total</u>
					\$	35,826.84
					\$	-
					\$	-
					\$	-
					SUBTOTAL:	\$ 35,826.84
2.	Material & Permanent Equipment:					
	N/A				\$	-
					SUBTOTAL:	\$ -
3.	Subcontractor Work:		Price	Qty.		
					\$	-
					\$	-
					\$	-
					SUBTOTAL:	\$ -
4.	Supplement Costs:					
	Painting Equipment				\$	-
	Welding Supplies				\$	-
					\$	-
	Freight Charges	\$	585.00	8	\$	4,680.00
	One Way Common Carrier from Paterson, NJ to Sartell, MN				\$	-
	(Based on shipping (5/6) valves at a time to and from Dezurik)				\$	-
					\$	-
					\$	-
					\$	-
					\$	-
	Bonds & Insurance Adjustment:				\$	-
					SUBTOTAL:	\$ 4,680.00
5.	Grand Total (Subtotal 1, Subtotal 2, Subtotal 4, Subtotal 5):				\$	40,506.84
	<u>Contract Decrease</u>					
6.	Contractor Credit				\$	-
	<u>Net Contract Increase</u>					
7.	Direct Work Sub-Total (Increase 5 + Decrease 6)				\$	40,506.84
8.	Contractor's Overhead (10%):				\$	4,050.68
	Contractor's Profit (10%):				\$	4,455.75
9.	Subcontractor Total (Item 3 Subtotal)				\$	-
10.	Subcontractor Markup (5% of Item 10 total)				\$	-
11.	Bond Premium (0.8% x Lines 8,9):				\$	392.11
12.	TOTAL INCREASE:				\$	49,405.39

LABOR BREAKDOWN
FOR DISCUSSION PURPOSES ONLY

Labor

	<u>Men</u>	<u>Days</u>	<u>Hrs/Day</u>	<u>Total Hours</u>	<u>Rate</u>	<u>Amount</u>	<u>Total</u>
<u>PCO for Labor to remove and reinstall 6" Dezurik Recycle Valves from (10) Filter Cells</u>							
Remove Initial (6) Valves	1	2	8	16	Laborer	\$ 70.16	\$ 1,122.56
	1	2	8	16	Millwright	\$ 89.29	\$ 1,428.72
	1	2	8	16	Electrician	\$ 73.75	\$ 1,180.02
Crate (6) Valves & Prep for Delivery	1	1	8	8	Laborer	\$ 70.16	\$ 561.28
Receive & Reinstall Modified (6) Valves	1	2	10	20	Laborer	\$ 70.16	\$ 1,403.21
Test Valve Operation	1	2	10	20	Millwright	\$ 89.29	\$ 1,785.90
	1	2	10	20	Electrician	\$ 73.75	\$ 1,475.02
Remove Next (6) Valves	1	2	8	16	Laborer	\$ 70.16	\$ 1,122.56
	1	2	8	16	Millwright	\$ 89.29	\$ 1,428.72
	1	2	8	16	Electrician	\$ 73.75	\$ 1,180.02
Crate (6) Valves & Prep for Delivery	1	1	8	8	Laborer	\$ 70.16	\$ 561.28
Receive & Reinstall Modified (6) Valves	1	2	10	20	Laborer	\$ 70.16	\$ 1,403.21
Test Valve Operation	1	2	10	20	Millwright	\$ 89.29	\$ 1,785.90
	1	2	10	20	Electrician	\$ 73.75	\$ 1,475.02
Remove Next (6) Valves	1	2	8	16	Laborer	\$ 70.16	\$ 1,122.56
	1	2	8	16	Millwright	\$ 89.29	\$ 1,428.72
	1	2	8	16	Electrician	\$ 73.75	\$ 1,180.02
Crate (6) Valves & Prep for Delivery	1	1	8	8	Laborer	\$ 70.16	\$ 561.28
Receive & Reinstall Modified (6) Valves	1	2	10	20	Laborer	\$ 70.16	\$ 1,403.21
Test Valve Operation	1	2	10	20	Millwright	\$ 89.29	\$ 1,785.90
	1	2	10	20	Electrician	\$ 73.75	\$ 1,475.02
Remove Final (5) Valves	1	2	8	16	Laborer	\$ 70.16	\$ 1,122.56
	1	2	8	16	Millwright	\$ 89.29	\$ 1,428.72
	1	2	8	16	Electrician	\$ 73.75	\$ 1,180.02
Crate (5) Valves & Prep for Delivery	1	1	8	8	Laborer	\$ 70.16	\$ 561.28
Receive & Reinstall Modified (5) Valves	1	2	10	20	Laborer	\$ 70.16	\$ 1,403.21
Test Valve Operation	1	2	10	20	Millwright	\$ 89.29	\$ 1,785.90
	1	2	10	20	Electrician	\$ 73.75	\$ 1,475.02

NOTE: All cell commissioning/de-commissioning, cell startup services and/or other activities required to operate Filter Cells shall be performed by NHSA Operations Staff.

TOTAL LABOR \$ 35,826.84

NNSA PURAC System
PCO #1 Cost Breakdown
FOR DISCUSSION PURPOSES ONLY

Description: PCO#1 Labor Inefficiencies due to Unforeseen Media Removal from (10) Filter Cells

1.	Payroll Costs:					
	See page 2 of Proposal	<u>Trade</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>	
					\$ 84,702.17	
					\$ -	
					\$ -	
					\$ -	
				SUBTOTAL:	\$ 84,702.17	
2.	Material & Permanent Equipment:					
	N/A				\$ -	
					SUBTOTAL:	\$ -
3.	Subcontractor Work:	Price	Qty.			
					\$ -	
					\$ -	
					\$ -	
				SUBTOTAL:	\$ -	
4.	Supplement Costs:					
	a. Painting Equipment				\$ -	
	b. Welding Supplies				\$ -	
	c.				\$ -	
	d.				\$ -	
	e.				\$ -	
	f.				\$ -	
	g. As Builts				\$ -	
	h. Office Trailer Expenses				\$ -	
	i. Cad Design - For Rigging Plan				\$ -	
	j. Bonds & Insurance Adjustment:				\$ -	
					SUBTOTAL:	\$ -
5.	Grand Total (Subtotal 1, Subtotal 2, Subtotal 4, Subtotal 5):				\$ 84,702.17	
	<u>Contract Decrease</u>					
6.	Contractor Credit				\$ -	
	<u>Net Contract Increase</u>					
7.	Direct Work Sub-Total (Increase 5 + Decrease 6)				\$ 84,702.17	
8.	Contractor's Overhead (10%):				\$ 8,470.22	
	Contractor's Profit (10%):				\$ 9,317.24	
9.	Subcontractor Total (Item 3 Subtotal)				\$ -	
10.	Subcontractor Markup (5% of Item 10 total)				\$ -	
11.	Bond Premium (0.8% x Lines 8,9):				\$ 819.92	
12.	TOTAL INCREASE:				\$ 103,309.55	

LABOR BREAKDOWN
FOR DISCUSSION PURPOSES ONLY

Labor

	<u>Men</u>	<u>Days</u>	<u>Hrs/Day</u>	<u>Total Hours</u>	<u>Rate</u>	<u>Amount</u>	<u>Total</u>
<u>PCO#1 Labor Inefficiencies due to Unforeseen Media Removal from (10) Filter Cells Additional Underdrain Tile and Pier Demolition Work</u>							
Additional Labor to Demolish Tiles							
(10) Filter Cell	3	10	8	240	Laborer	\$ 70.16	\$ 16,838.47
	1	10	8	80	Millwright	\$ 89.29	\$ 7,143.59
Additional Rig Tiles out of Cells							
(10) Filter Cell	3	10	8	240	Laborer	\$ 70.16	\$ 16,838.47
	1	10	8	80	Millwright	\$ 89.29	\$ 7,143.59
Inefficiencies Due to Pier Remob							
(10) Filter Cell	3	10	8	240	Laborer	\$ 70.16	\$ 16,838.47
	1	10	8	80	Millwright	\$ 89.29	\$ 7,143.59
<u>Additional Work Due to Filter Media Removal for (10) Filter Cells</u>							
Media Remobilization/Oversight							
Working Foreman	1	10	8	80	Millwright	\$ 89.29	\$ 7,143.20
Equipment / Hose	1	10	8	80	Laborer	\$ 70.16	\$ 5,612.80

NOTES:

1. Labor inefficiencies and re-mobilization efforts resulted in a total of (55) CCD of delay over the course of (10) Filter Cells

TOTAL LABOR \$ 84,702.17

Attachment C

NECESSITY FOR CHANGE AND REASON FOR OMISSION FROM PLANS AND SPECIFICATIONS

Issuing Office: North Hudson Sewerage Authority

Project Number: S340952-30

Modification No: P-03

Box No. 18: NECESSITY FOR CHANGE AND REASON FOR OMISSION FROM PLANS AND SPECIFICATIONS

1. Labor to Remove and Reinstall New 6" DeZurik Butterfly Valves
 - a. The PURAC system contains 10 filter cells in total which among other appurtenances, contains 2 – 6-inch butterfly valves in each of the 10 filter cells and 3 – 6-inch butterfly valves for the air saturation tanks for a total of 23 – 6-inch butterfly valves. The 6-inch butterfly valves located on the filter recycle system must open/close during a backwash cycle. The specified valves were selected as they are AIS compliant, however after installation the valves have become corroded and are failing to properly open/close when required. From the Engle Metallurgical analysis performed by the manufacturer it was apparent that the media in the fluid attacks the carbon steel BHP valve body, causing rust (iron oxide) buildup. In consultation with the manufacturer they feel that the BOS-US butterfly valve would be a better fit for the environment of the PURAC System as the body of the BOS-US valve is ductile iron and is fully lined with nitrile rubber (NBR). The manufacturer will replace these valves at no cost to the Owner, however, there is labor costs associated to this for the Contractor. The change in contract time will be visited at a later time.
2. Additional Labor and Time due to Unforeseen Site Conditions during Media Removal (55 additional calendar days)
 - a. Labor Inefficiencies due to Unforeseen Media Removal from ten (10) Filter Cells (55 additional calendar days)- RPM's subcontractor McVac returned to site for the additional media removal and disposal of media from below the underdrains. This was done for all 10 cells. The additional media below the underdrains caused RPM additional labor costs in cells 3 and 4 and time delay for the modified method to demolish and remove the concrete tiles/underdrain.
3. **(Credit)** Unit Price Item U1 Provision for Welded Steel Pipe ALLOWANCE
 - a. Credit to contract as Line Item U1 is not needed in its entirety
4. **(Credit)** Unit Price Item U2 Fuel Pricing Adjustment
 - a. Credit to contract as Line Item U2 is needed in its entirety for fuel pricing adjustments
5. **(Credit)** Unit Price Item U4 Structural Crack Repair
 - a. Credit to contract as Line Item U4 is needed in its entirety for structural concrete repairs

6. **(Credit)** Unit Price Item U6 Overhead Concrete Repair
 - a. Credit to contract as Line Item U6 is needed in its entirety for overhead concrete repairs
7. **(Credit)** Unit Price Item U7 Horizontal Concrete Repair
 - a. Credit to contract as Line Item U7 is needed in its entirety for horizontal concrete repairs
8. **(Credit)** Unit Price Item U8 Steel Pipe Corrosion Inspection ALLOWANCE
 - a. Credit to contract as Line Item U8 is not needed in its entirety for steel pipe inspection
9. Contract Time Adjustment for COVID related Media Supplier Change
 - a. Initial Media Installer for Filter Cells 9 and 10 was supposed to start media installation of media on 3/23/20. However, due to COVID travel restrictions, this subcontractor was unable to install media per the schedule. The Contractor was able to find a local sub to fulfil this this work which began on 4/6/20 to keep the project moving as the project is under an ACO. Therefore an addition of 15 calendar days has been added for the change in media supplier for Filter Cells 9 and 10.
10. Contract Time Adjustment for Structural Repair in Cells
 - a. Structural repairs were required for each of the cells that were not fully understood until the interior of the cells were demolished. Contractor required 3 working days for each filter cell for a total of 30 working days which equates to about 40 calendar days for this effort.
11. Contract Time Adjustment for Skimmer Flight Modifications
 - a. Addition of 10 calendar days due to skimmer flight modifications as a result of supplier produced material requiring field adjustment.
12. Contract Time Adjustment for Filter Cell Level Transmitters
 - a. Addition of 5 calendar days due to troubleshooting required for the existing filter cell level transmitter that were approved to be replaced under MOD P-02.