



ENGINEERS

SURVEYORS

PLANNERS

May 26, 2021

M&C 00069-0047

Paul Biagiotti, Construction Manager
Brunswick County Public Utilities Operations Center
250 Grey Water Rd. NE
Supply, NC 28462

**RE: Northeast Brunswick Regional Water Reclamation Facility 2.5 MGD
Facility Expansion Project
Change Order No. 1.**

Dear Mr. Biagiotti :

On Nov. 8, 2019, Brunswick County Public Utilities entered into a contract with TA Loving Construction Co. for a 2.5 MGD expansion of the NEBRWRF . Currently, construction is proceeding at a swift pace and is scheduled to be completed at or near January 3, 2022. While this date is later than the contract required date of October 28, 2021, the Contractor has provided evidence to support their claim that impacts to the construction schedule were beyond their control and thus additional construction time has been requested in accordance with the requirements set forth in the contract. Contractor has claimed their delays were a result of poor weather itself, weather impacts on job site conditions, and labor impacts resulting for Covid.

Contract Time Extension

After reviewing the attached supporting documentation from TA Loving Construction dated March 22, 2021 and having consulted with the Brunswick County Project Representative (BCPR), Engineer recommends the Contractor be awarded the following:

- 47 days for weather and weather impacts on job site conditions. While Engineer is not on site full time, the BCPR is and has confirmed the impacts through a review of daily site inspection reports.
- 23 days for Covid impacts of Contractor staff and Subcontractors. Again, while Engineer is not on-site full time, the BCPR is and has confirmed the impacts through a review of daily site inspection reports.

243 North Front Street

Wilmington, NC 28401

910.343.1048

Fax 910.251.8282

www.mckimcreed.com

- 1 day for Schedule impacts due to one additional work item included in Memorandum of Understanding No.1.

Contract Cost Adjustments

As with all construction, there are problems/changes/ unforeseen issues that only arise during construction which must be dealt with through the construction administration process outlined in the contract documents. Items documented herein have been resolved in accordance with that process.

The following is a list of those items (back up for each is attached along with a summation spreadsheet):

Memorandum of Understanding No. 1 executed on March 18, 2021, is a summation of items that arose during the construction period Nov. 8, 2019 through Oct. 17, 2021. The overall cost impact due to the listed changes totaled an ADD of \$33,150.13 along with one additional day of construction time, which is detailed on the attached Change Order No. 1 Summation inclusive of Items 1 through 16.

Item 18: RCP 14/ PCO 15 ATAD Odor Control Breaker and Conductor Change

During the review of submittal 44 33 00.02, Engineer noted the electrical demand for LCP 90000 was higher than the basis of design. The original electrical demand (basis of design) was based on draft electrical schematics provided by the manufacturer, as the manufacturer's final design was not yet available. This increase in demand required an increase in the feeder breaker from 30 to 60 amps with an associated increase in feeder conductors and conduit.

Along with this increase, it was determined that additional instruments associated with the odor control system required conduit and conductors back to LCP 90000.

Ductwork dimensions and layout were also adjusted during the submittal process to coordinate connections with the proposed equipment.

This RCP provides for an increased main breaker along with conduit and conductors associated with the ATAD OC unit and associated instruments along with changes to the FRP ductwork.

- Add cost \$12,994.01.

Item 19: Deletion of ATAD Indicator Panels

Item not included in Change Order agreement to amount has not been reached.

Item 20: RCP 17/PCO 15 NaOH Chemical Totes and Chemical Containment

Owner requested the Contractor replace the specified standard NaOH totes (Spec. Section with 46 33 00.1.2.A) with cageless totes- 330 Gal Cagebuster IBC Tote by Protank or equal. The reason for requesting a change was that the chemicals are delivered to the site by tanker then pumped into the plant's totes. Because chemicals are highly corrosive, the metal cage which surrounds and supports the tote only last for a year. The specified tote was similar to the existing and thus would have met the same result. The alternate tank is not susceptible to corrosion and will be more durable.

In addition, Owner requested a secondary (spill) chemical containment system be provided under the totes. Secondary containment is required but was not specified to be provided as part of the construction contract.

- Add cost \$3,952.95

Item 21: PCO 18 Additional Lights in Electrical Room

During Owners site visit, the Owner indicated that additional lighting in the interior of the electrical room would be preferred. Owner directed Contractor to install four additional LED strip light fixtures, two additional exit signs, and change the existing LED exit sign to a combination EM/Exit LED sign.

- Add cost \$3,938.66

Item 22: Tertiary Filter Drain Adjustment

During the installation of the Tertiary Filters drains, an elevation conflict was found between the drain piping and the Filter influent piping. Engineer directed the Contractor to adjust in the drain routing which necessitated additional pipe fittings and pipe.

- Add cost \$3,873.50

Item 23: Owner Directive for Pea Gravel verses Specified Concrete

At Contractor's request, Owner agreed to additional cost associated with providing pearock gravel concrete in place of the specified concrete mix. Contractor presented concern that the specified mix contained large aggregate that would cause honeycombing during Oxidation Ditch baffle wall placement.

- Add cost \$428.00

Item 24: PCO 20 Tertiary Filter Influent Piping Modification

During the installation of the Tertiary Filters influent piping, an elevation conflict was found between the Filter influent piping and the process drain piping from Manhole 4 to the EQ Pump station. As the process drain piping was already installed and must be laid on a slope and thus could not be changed, additional pipe length was added to eliminate the conflict. Only the cost of the additional pipe itself was incurred.

- Add cost \$11,608.00

Item 25: PCO 21 EQ Blower SST Piping Modification

When installing the EQ tank aeration blowers, it was found that the blower enclosure doors could not be opened fully as the blowers themselves were mounted too close together. Since the blower piping which connects the two blowers to the aeration header was already fabricated and on site, an additional short section of pipe was necessary to correct the issue along with the necessary on site welding labor.

- Add cost \$1,022.49

Summary

Based on the items detailed in this letter, the Engineer recommends the contract amount be increased by \$70,967.74 and the contract time be amended to include an additional 71 calendar days.

If you have any questions, please do not hesitate to contact us.

Sincerely,

McKIM & CREED, INC.

A handwritten signature in black ink, appearing to read 'Stacey Magnus', is written over the printed name and title.

Stacey Magnus

Senior Construction Administrator

Enclosures: Change Order No.1 Summation

cc: File 00069-0047.64

Change Order No. 1 Summation

				Contractor		Status		
Item#	Description	Date Issued	Date Approved or other	Add/Deduct	Amount	Addl. Time Requested	Approved Cost	Approved Addl Time
1	PCO 1: Repair of Broken pipe at HDWKS		1/29/2020	ADD	\$7,000.00	1 day	Approved	Approved
2	RCP1/PCO3: Upsize of WAS/RAS line	2/7/2020	2/17/2020	ADD	\$10,362.28	8 weeks	Approved	Denied
3	RCP 2/PCO4: Change from DIP to PVC (Partial)	2/7/2020	2/17/2020	ADD	\$12,202.43	4 weeks	Approved	Denied
4	RCP 5: Ox Ditch Eff Pipe	3/23/2020		ADD	\$18,221.24		Approved	
5	FO 4: Starter Changes	2/24/2020	4/7/2020	ADD	\$48,685.42	1 week	Approved	Denied
6	RFI 8: Ductbank Relocation		4/7/2020	DEDUCT	-\$33,890.88		Approved	
7	VE: MCC ARC Flash Deletion			DEDUCT	-\$8,981.00		Approved	
8	VE: Savings for MSG 100			DEDUCT	-\$80,000.00		Approved	
9	VE: Kruger Tax Savings Credit			DEDUCT	-\$4,415.00			
10	VE: OIP Credit			DEDUCT	-\$22,500.00		Approved	
11	RCP 7: Pre Atad Platform Mods	6/1/2020	6/7/2020	ADD	\$20,484.35	10 days	Approved	Denied
12	RCP 9: Clarifier Control Panels	6/19/2020	7/27/2020	ADD	\$14,731.50	10 days	Approved	Denied
13	RCP 10: TDF-LCP- 51000	7/22/2020	9/8/2020	ADD	\$18,782.66	10 days	Approved	Denied
14	RCP 11: Odor Control, MH #4, and RFI 27	9/9/2020	10/10/2021	ADD	\$7,099.55	10 days	Approved	Denied
15	RCP 12: Oxidation Ditch Davit Cranes Support Beams and Grating Support	9/10/2020	9/15/2020	ADD	\$23,425.08		Approved	
16	FO 5: Electrical Building HVAC Modification	10/16/2020	11/1/2020	ADD	\$1,942.50		Approved	
MU-1				ADD	\$33,150.13			
17	Fiber Network Changes	10/16/2020			\$0.00			
18	RCP 14: ATAD Odor Control Breaker and Conductor Change	1/4/2021		ADD	\$12,994.01	0	Approved	
20	RCP 17: NaOH Chemical Totes and Chemical Containment	1/3/2021		ADD	\$3,952.95	0	Approved	
21	Additional Lights in Electrical Room	2/3/2021		ADD	\$3,938.66	0	Approved	
22	PCO 19 Tertiary Filter Drain Adjustment	2/4/2021		ADD	\$3,873.50	0	Approved	
23	Owner Directive for Pea gravel verses spec conc				\$428.00	0	Approved	
24	PCO 20 Tertiary Filter Piping Modification	2/8/2021		ADD	\$11,608.00	0	Approved	
25	PCO 21 EQ Blower SST Piping Modification	3/15/2021		ADD	\$1,022.49	0	Approved	
			Subtotal		\$37,817.61			
			MU-1		\$33,150.13			
	Addl. Cost incl. MU-1			ADD	\$70,967.74			



Memorandum of Understanding (MU-1)

To: TA Loving Co. MU No.: 1
P.O. Box 919 Date: Nov. 9, 2020
Goldsboro, NC 27530 Project: NEB WWTP Exp.

Attention:

- Owner: Paul Biagottia, Construction Manager, Brunswick County Public Utilities
- Contractor: David Pittman, Senior VP, TA Loving Inc.

Re: NE Brunswick Regional Water Reclamation Facility - 2.5 MGD Facility Expansion
MU No. 1 Record of Change Agreement (Period Nov. 8, 2019 thru Oct. 17, 2020)

Parties to Agreement

Between

Owner James A. Bearlin Date 3-10-21

and

Contractor David W. Pittman Date 3-17-21

This Memorandum of Understanding (MOU) sets forth the understanding between the **Owner** and **Contractor** with regards to agreement on change items (including cost and time) as shown below.

Purpose

Memorandum establishes the agreement between both parties that identified items attached hereto are agreed to by both parties. MU 1 only acknowledges agreement between parties on those items listed.

Summary

On Nov. 8, 2020, Brunswick County Public Utilities issued Notice to Proceed to TA Loving Construction Co. for the construction of the Northeast Brunswick Regional Water Reclamation Facility 2.5 MGD Facility Expansion. Since the issuance of the NTP and over the course of the construction period from Nov. 8, 2019 to October 19, 2020, Engineer has issued Request for Change Proposals (RCPs), Field Orders, and Value Engineering requests. These documents requested changes in the work that included increases and decreases in the contract value and contract time. A list of changes is summarized below:

Summary of Changes

Item: PCO 1- Bypass and Repair of Broken Pipe at Existing Headworks.

While excavating for a new duct bank located over an existing Headworks discharge line, the line collapsed due to excessive corrosion. Cost was for mitigation of the spill and replacement of the existing pipe.

- Add Cost: \$7,000.00
- Additional Contract Time Requested by Contractor and agreed to by Owner: 1 day.

Item 2: RCP 1/PCO 3- Up-Sizing of WAS RAS Line

During shop drawing review of the submitted RAS/WAS pumps, Engineer determined the combination of pumps and discharge line size would not produce the design flow rate required for a 2.5 MGD plant. Contractor was directed to increase pump capacity and pump discharge line size to the Pre-ATAD Thickening Facility to accommodate required flow rate. Cost reflects the increase in pump size and discharge line size.

- Add Cost: \$10,362.28.
- Additional Contract Time Requested by Contractor: 8 weeks. Addl. time was denied**.

Item 3: RCP 2/PCO 4- Piping Changes from Ductile Iron Pipe to PVC

Owner requested change from Ductile Iron Pipe to PVC Pipe for influent pipe and pipe between the EQ Pump Station and the EQ Tankage. Request was made based upon Owner witnessing corrosive attack and failures on DIP in similar piping areas within the County. Cost reflects change in materials and change in pipe restraint costs.

- Add Cost: \$12,202.43.
- Additional Contract Time Requested by Contractor: 4 weeks. Addl. time was denied**.

Item 4: RCP 5 Rev.1/ PCO 2: Oxidation Ditch Piping Size Change

During a review of the contract drawings in preparation for shop drawing production, the Oxidation Ditch Equipment Vendor noted a flow restriction in the tank effluent launder that would prevent the tank from reaching the full the design flow capacity of 1.25 MGD (the full flow rated capacity of each ditch). To reach the full flow rate of each basin, the outfall pipe size was increased from 18 inches to 30 inches. Since the outfall box that supports the 18 inch pipe could not accommodate the 30 inch pipe, the box too required redesign which increased the size of the box. Cost reflects the difference in price in pipe size and supports in going from 18 to 30 inches.

- Add Cost: \$18,221.24.

Item 5: Field Order 4/ PCO 5: Motor Starter Size and Associated Conductor Changes

During Engineer's review of shop drawings for the EQ pump Station Pumps, it was found that the submitted pumps drew higher amps than those pumps proposed in the original design. Because of the higher amps, the original MCC frame size and proposed breakers included in the contract and the size of the associated conductors/conduit were all increased in size for the higher electrical load.

A similar issue was encountered while reviewing the Non-Potable Water Pumps submittal and the backup generator power submittal.

Cost reflects the difference in price between original MCC frame sizes, breakers and conductor sizes and the required larger sizes for all.

- Add Cost: \$48,685.42.
- Additional Contract Time Requested by Contractor: 1 week. Addl. time was denied**.

Item 6: RFI 8 Duct Bank Relocation

Contractor offered a deduct to relocate a proposed duct bank. Deduct amount was accepted.

- Deduct: \$33,890.88

Item 7: Motor Control Center ARC Flash Deletion

Contractor offered a deduct to delete the specified ARC Resistant Construction on 3 MCCs. Deduct amount was accepted.

- Deduct: \$8,891.00.

Item 8: Value Engineering Credit for Acceptance of Alternate Switchgear Russelectric (Siemens) MSG 100 and Associated Switchgear Components

Contractor requested to be allowed to provide a Russelectric (a subsidiary of Siemens) MSG 100 and Siemens for all remaining switchgear, VFDs etc. for a deduct. Deduct amount was accepted.

- Deduct: \$80,000.00.

Item 9: Kruger VE Proposal Tax Credit

In the VE Proposal from the General Contractor that was accepted by Owner (previously), the associated tax with deduct offered on alternate pumps by Kruger was stated incorrectly. The erroneous total deduct accepted by the Owner was \$271k which included 6.75% on a \$258k basis. The correct total amount of deduct should have reflected the total amount of \$275,415 including tax and thus a deduct to Owner for \$4,415.00 was requested.

- Deduct: \$4,415.00

Item 10: Russelectric Remote OIP (Operator Interface Panel) Deletion

Contractor offered a deduct to delete the Russelectric Remote OIP in view of the MSG 100 being provided with an integral OIP. Deduct amount was accepted.

- Deduct: \$22,500.00.

Item 11: RCP 7 Pre-ATAD Facility Platform Revisions

During the review of the Rotary Drum Thickener submittal, Engineer noted that the Drum Manufacturer required as part of routine maintenance, the operator be able to access to both sides of the unit. Access to the West side of the Rotary Drum Thickener No.2 was not provided during design. Part of this RCP provides an access platform on the West side of Drum Thickener No. 2. After reviewing the contract drawings, the Manufacturer recommended raising the platform already shown on the contract drawings an additional 20 - 30 cm to facility operator access across the entire unit. This RCP also requires the access platform originally shown to be raised the additional height. Costs reflects both modifications and was approved.

- Add Cost: \$20,484.35.
- Additional Contract Time Requested by Contractor: 10 days. Addl. time was denied**.

Item 12: RCP 9 Clarifier Control Panels Modifications

During Engineer's review of Kruger's Clarifier control equipment submittal, it was determined that Kruger's Clarifier scope of supply included in the bid documents (see Section 4.2 of Appendix B) specifically did not include necessary internal features (fused full voltage motor controllers with three leg thermal protection, fused control power transformer, and several control/alarm relays) that would allow them to be integrated into the plant electrical and control system as designed. This additional cost provides for those necessary components for both clarifier control panels.

- Add Cost: \$14,731.50.
- Additional Contract Time Requested by Contractor: 10 days. Addl. time was denied**.

Item 13: RCP 10 Disk Filter Control Panel TDF-LCP-51000

During Engineer's review of Kruger's Tertiary Disk Filter submittal and comparison to the contract specification on the noted equipment, it was determined that Kruger had specifically eliminated the filter supplier contract requirement to provide the Local Control Panel (TDF-LCP-51000) in their scope of supply (see Section 4.8 of Appendix E of IFC Specifications) .

RCP 10 requested pricing to provide panel TDF-LCP-51000. Costs to wire up, mount, and program the panel are already included in the base bid cost price therefore were not included in the response to RCP 10. Cost amount was accepted.

- Add Cost: \$18,782.66.
- Additional Contract Time Requested by Contractor: 10 days. Addl. time was denied**.

Item 14: RCP 11 Odor Control, MH #4, and RFI 27

During the review of the Odor Control Submittals, Engineer found that both odor control units required “traps” on their drain piping to prevent the Odor Unit suction from short circuiting (drawing air in from the drain system rather than the tank to which they were attached). Traps were not included in the original bid set. In addition to the lack of traps, the ATAD scrubber discharge had a considerably higher flow rate than that planned for and thus the drain piping was upsized from 6 inches to 8 inches for a short section. The invert elevation of the same pipe discharge directed into MH #4 was lowered to facilitate the higher flow. Again, to facilitate the higher flow rate and to keep drain flow from upstream processes flow from impacting the ATAD OC trap, the 24-inch discharge invert from MH #3 into MH #4 was lowered and the discharge out of MH #4 to the EQPS has been lowered. Unfortunately, the lower section of MH No.4 was already on site thus will need to be reordered with the different invert elevations.

Also, the 12-inch FA line located under the road near the Headworks Odor Control was changed from Sch 80 to C900 with restrained joints. Given the shallow depth of the pipe, C900 was better suited for the shallow condition.

Costs included in this RCP reflect the increase in drain pipe size, the remanufacture of MH No. 4 lower section, and the change in materials for the Headworks odor control system drain piping

- Add Cost: \$7,099.55.
- Additional Contract Time Requested by Contractor: 10 days. Addl. time was denied**.

Item 15: RCP 12 Oxidation Ditch Davit Cranes Support Beams and Grating Support

During Engineer’s review of the Oxidation Ditch Miscellaneous Metal Submittal, it was determined that under the original design, support framing was not provided for the three davit cranes located on Northern access walkway nor support for the elevated grating walkways. This RCP provides support for both cranes and walkways.

- Add Cost: \$23,245.08.

**Evidence to support impact from change on critical path not provided thus additional contract time for change not recommended to Owner. Contractor reserves right to provide evidence of impact later for consideration.

Item 16: Field Order 5: Electrical Building HVAC Modification

The alternate switchgear accepted by Owner as part of deduct Item 8 (above) was found to be taller than the specified gear during submittal review. This increase in height conflicted with the HVAC duct work shown on the original contract drawings. The increase in cost associated with this Field Order reflects the cost to split one duct into two and relocate in the ceiling.

- Add Cost: \$1,942.50.

Memorandum of Understanding No. 1						
Project: NE Brunswick Regional Water Reclamation Facility- 2.5MGD Exp.						
Date: Nov. 9, 2020						
Item#	Description	Contractor			Status	
		ADD/ DEDUCT	Amount	Addl. Time Requested	Approved Cost	Approved Addl Time
1	PCO 1: Repair of Broken pipe at HDWKS	ADD	\$7,000.00	1 day	Approved	Approved
2	RCPI/PCO3: Upsize of WAS/RAS line	ADD	\$10,362.28	8 weeks	Approved	Denied
3	RCP 2/PCO4: Change from DIP to PVC (Partial)	ADD	\$12,202.43	4 weeks	Approved	Denied
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5	FO 4: Starter Changes	ADD	\$48,685.42	1 week	Approved	Denied
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7	VE: MCC ARC Flash Deletion	DEDUCT	-\$8,981.00		Approved	
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9	VE: Kruger Tax Savings Credit	DEDUCT	-\$4,415.00			
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15	RCP 12: Oxidation Ditch Davit Cranes Support Beams and Grating Support	ADD	\$23,425.08		Approved	
16	FO 5: Electrical Building HVAC Modification	ADD	\$1,942.50		Approved	
	Total Additional Cost:		\$33,150.13			
	Total Additional Contract Time				1 day	



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 001
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	1/24/2020
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 001 _____ Other Change Request _____

PCO TITLE and Description: This Change Order is for the bypass and repair of piping from the headworks to EQ Pump Station.

1. LABOR (See attached itemized breakdown)	\$3,377.70
2. MATERIALS (See attached itemized breakdown)	\$2,335.42
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$1,390.33
4. TIME EXTENSION FIELD COSTS** @ _____ DAYS @ _____ PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$7,103.45
6. OVERHEAD & PROFIT ON DIRECT WORK..... 10%	\$710.35
7. TOTAL DIRECT WORK	\$7,813.80

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%	\$0.00
10. TOTAL SUBCONTRACTOR WORK.....	\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$7,813.80
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$7,813.80

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
 400 Patetown Road P.O. Drawer 919
 Goldsboro NC 27533-0919
 919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
 Order
 No.: 001
 Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$2,195.91
B. Miscellaneous/Waste material		1.00%	of A	\$21.96
C. Freight				\$0.00
D. SUBTOTAL				\$2,217.87
E. Sales Tax	Exempt	5.30%	of D	\$117.55
F. TOTAL MATERIAL				\$2,335.42
LABOR COST				
G. Labor (From takeoff worksheet)				\$3,240.00
H. Small Tools		1.50%	of Labor	\$48.60
I. Clean-up		1.00%	of Labor	\$32.40
J. Safety		1.00%	of Labor	\$32.40
K. Safety Training		0.75%	of Labor	\$24.30
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$3,377.70
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$1,305.47
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$32.64
T. Equipment Repairs		2.00%	of Equipment	\$26.11
U. Equipment Yard Work		2.00%	of Equipment	\$26.11
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$1,390.33



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Proposed Change
 Order
 No.: 001
 REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	Diesel Bypass Pump	1	LS					\$1,305.47	1,305.47		
	Diesel Bypass Pump Accessories	1	LS	\$435.54	\$435.54						
	Pump Repair Clamp	1	LS	\$600.00	\$600.00						
	Pipe Repair Clamp	1	LS	\$1,160.37	\$1,160.37						
	Labor Skilled (3 Men * 13 Hours)	40	HR			\$40.00	1,600.00				
	Superintendent	8	HR			\$116.00	928.00				
	Foreman	8	HR			\$89.00	712.00				
					2,195.91		3,240.00		1,305.47		0.00



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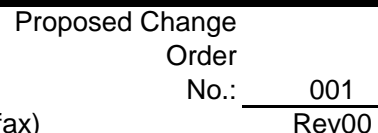
Proposed Change
Order
No.: 001
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This has impacted the schedule by 1 day.

TOTAL DAYS 1



				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager				HR				
	Superintendent				HR				
	Project Engineer				HR				
	Surveyor				HR				
	Foreman				HR				
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)			1	DY	80			\$ 80.00
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								\$ 14.63
	Temp Engineers Trailer								
	Temp Storage Trailer								\$ 6.50
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								\$ 26.40
	Office Supplies								\$ 25.13
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								\$ 10.00
	Printer								
	Safety								\$ 31.98
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								\$ 5.00
	Ice & Cups								\$ 3.88
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$203.52



REQUEST FOR CHANGE PROPOSAL (RCP)

To: TA Loving Inc.	RCP No.: RCP-1
400 Patetown Rd	Date: Feb. 06, 2020
Goldsboro, NC 27530	Project: Northeast WWTP Plant Expansion
Att. Mr. David Pittman	Owner: Brunswick County Public Utilities

Description of Change: Increase Design TDH of RAS WAS Pumps and Size of Associated Piping

Provide and install RAS/WAS pumps meeting TDH of 32ft in place of the bid 28ft. Engineer has coordinated with vendor for sizing of pumps and is aware of requested change and associated cost (see attached email dated 20200117). Piping identified on attachment (Piping changes associated with RCP 1 (5 sheets total)) will require an increase in size from 6in to 8in along with 3 in line gate valves (gates valves will be noted on in house GV submittal).

Attachments: Email dated 202001017, (Piping changes associated with RCP 1 (5 sheets total))

Pricing:

Provide a detailed cost breakdown for the requested change in accordance with Contract Requirements.

The proposed changes described herein are being considered for the above-noted project. Please advise us promptly of your proposed change in contract price and time to accomplish this work. Note that this is not an order to proceed with the proposed change. Notice-to-proceed will be issued later in the form of a Change Order, if it is decided to proceed with this change.

Owner/Representative

Cc: Bob Tweedy PE, BCPU via/email
Paul Biagiotti, BCPU via/email
James Beachum, BCPU via/email
Tony Boahn PE, MCE via/email
File: M&C 00069-0047-63A

Stacey Magnus

From: Joshua Powell
Sent: Friday, January 17, 2020 12:20 PM
To: Gregg Hauser; Ryan Crotts
Cc: Tony Pevec; Stacey Magnus; Tony Boahn
Subject: RE: NE Brunswick RAS/WAS Pumps

Thank you, Gregg. Can you provide a DWG file of the updated base skid? I just need to confirm that this will work with the dimensions of the equipment pads as shown on the drawings.

Josh

From: Gregg Hauser <gregg.hauser@clearwaterinc.net>
Sent: Friday, January 17, 2020 10:49 AM
To: Joshua Powell <JPowell@mckimcreed.com>; Ryan Crotts <ryan.crotts@clearwaterinc.net>
Cc: Tony Pevec <TPevec@mckimcreed.com>; Stacey Magnus <SMagnus@mckimcreed.com>; Tony Boahn <TBOAHN@mckimcreed.com>
Subject: RE: NE Brunswick RAS/WAS Pumps
Importance: High

Josh

Sorry for the delay in getting you this information on the Fairbanks RAS pumps being submitted on this project. We can supply a larger diameter impeller to meet the revised flow/head conditions. This will require us to supply a 20 HP motor in lieu of the 15 HP motor quoted.

Budget price for the cost to change to 20 HP motor will be about **\$ 600.00 per pump**. This will include increasing to a 20 HP motor and a different base plate for motor on pump skid.

Hope this is everything you needed. Let me know if you have any questions.

Sincerely

Gregg Hauser

Eastern NC Sales Engineer

(828) 855-3182 (office)
(828) 855-3183 (fax)
(828) 781-2399 (cell)

1105 8th Street Court SE, Hickory, North Carolina 28602
PO Box 1469, Hickory, North Carolina 28603-1469



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 003
Rev000

PROPOSED CHANGE ORDER

Project Name: Northeast Brunswick Regional WWTP Facility Expansion
Location: Navassa, NC
Owner: Brunswick County
Engineer: McKim&Creed

TAL Proj. No. 3845
Date 2/17/2020
Drawing No.
Spec. Section

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 003 Other Change Request _____

PCO TITLE and Description: This Change Order is for changing the size of Pumps and size of piping associated with pumps (RCP #1). This will effect the project schedule by 8 weeks.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$9,010.68
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 0 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$9,010.68
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$1,351.60
7. TOTAL DIRECT WORK	\$10,362.28

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
8. SUB-TOTAL SUBCONTRACTOR WORK:			\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 15%			\$0.00
10. TOTAL SUBCONTRACTOR WORK.....			\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....			\$10,362.28
12. BOND & INSURANCE: 0.00% of subtotal # 11			\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....			\$10,362.28

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$9,010.68
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$9,010.68
E. Sales Tax	Exempt		of D	\$0.00
F. TOTAL MATERIAL				\$9,010.68
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	Pumps	4	ea	\$642.00	\$2,568.00						0.00
	Piping Change	1	LS	\$4,769.20	\$4,769.20						
	Motor Operated Plug Valve	1	LS	\$1,391.00	\$1,391.00						
	Flanged Plug Valve	1	LS	\$282.48	\$282.48						
					9,010.68		0.00		0.00		0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 003
Rev000

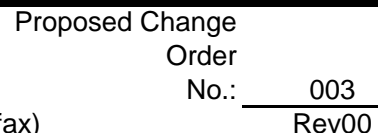
TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 8 weeks.

TOTAL DAYS

56



				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager				HR				
	Superintendent				HR				
	Project Engineer				HR				
	Surveyor				HR				
	Foreman				HR				
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00

QUAN	UNIT	DESCRIPTION	WEIGHT	UNIT PRICE	TOTAL PRICE
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Increase Design TDH of RAS WAS Pumps and Size

RCP # 1

DELETED MATERIAL RAS/AS PUMP DISCH

(1)	EA	14x06" FLG CON RED CL/PC USA	(155)	\$655.36	(\$655.36)
(3)	EA	06" FLG 90 CL/PC USA	(195)	\$188.16	(\$564.48)
(2)	EA	06x04" FLG CON RED CL/PC USA	(206)	\$187.52	(\$375.04)
(1)	EA	06"x 4' 0" FLG x FLG CL/PC	(124)	\$191.16	(\$191.16)
(1)	EA	06"x 6' 0" FLG x FLG CL/PC	(170)	\$240.12	(\$240.12)
(1)	EA	06"x 12' 0" FLG x FLG CL/PC	(315)	\$387.00	(\$387.00)
(6)	EA	06" MEGALUG 1100 SET (DI) USA		\$31.60	(\$189.60)

DELETED MATERIAL 6" WAS FEED INF

(2)	EA	08x06" FLG CON RED CL/PC USA	(150)	\$223.36	(\$446.72)
(4)	EA	06" FLG 90 CL/PC USA	(293)	\$188.16	(\$752.64)
(1)	EA	06" FLG TEE CL/PC USA	(95)	\$341.12	(\$341.12)
(2)	EA	06"x 1' 6" FLG x PE CL/PC 1- (1"NT)	(98)	\$149.61	(\$299.22)
(2)	EA	06"x 3' 6" FLG x FLG CL/PC	(138)	\$178.92	(\$357.84)
(2)	EA	06"x 11' 0" FLG x FLG CL/PC	(260)	\$362.52	(\$725.04)
(1)	EA	06"x 19' 6" FLG x PE CL/PC	(458)	\$522.00	(\$522.00)
(1)	EA	06" MJ 90 C153 CL/TC USA	(30)	\$99.45	(\$99.45)
(2)	EA	06" MEGALUG 1100 SET (DI) USA		\$31.60	(\$63.20)

DELETED MATERIAL 6" WAS RECIRC.

(1)	EA	06" FLG 90 CL/PC USA	(45)	\$188.16	(\$188.16)
(1)	EA	06" FLG 45 CL/PC USA	(55)	\$166.40	(\$166.40)
(1)	EA	06"x 16' 0" FLG x FLG CL/PC	(396)	\$484.92	(\$484.92)
(1)	EA	06"x 8' 0" FLG x FLG CL/PC	(115)	\$289.08	(\$289.08)
(1)	EA	06"x 2' 0" FLG x FLG CL/PC	(70)	\$142.20	(\$142.20)
(1)	EA	06"x 2' 6" FLG x WC x TMJ CL/PC	(57)	\$260.34	(\$260.34)
(1)	EA	06" MEGALUG 1100 SET (DI) USA		\$31.60	(\$31.60)

TOTAL ALL ITEMS LISTED ABOVE					(\$7,772.69)
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ADDED MATERIAL RAS/AS PUMP DISCH

1	EA	14x08" FLG CON RED CL/PC USA	(175)	\$734.72	\$734.72
2	EA	08x04" FLG CON RED CL/PC USA	(100)	\$192.00	\$384.00
2	EA	08" FLG 90 CL/PC USA	(210)	\$343.04	\$686.08
1	EA	08x06" FLG 90 CL/PC USA	(85)	\$377.60	\$377.60
1	EA	08"x 4' 0" FLG x FLG CL/PC	(181)	\$275.04	\$275.04
1	EA	08"x 6' 0" FLG x FLG CL/PC	(244)	\$342.72	\$342.72
1	EA	08"x 12' 0" FLG x FLG CL/PC	(434)	\$545.76	\$545.76
1	EA	08x06" MJ CON RED BB C153 CL/TC USA	(36)	\$95.55	\$95.55
20	FT	08" P.O. DIP CL350 20' NOM CL/TC	(110)	\$16.52	\$330.40
1	EA	06" MEGALUG 1100 SET (DI) USA		\$31.60	\$31.60
1	EA	08" MEGALUG 1100 SET (DI) USA		\$44.19	\$44.19

ADDED MATERIAL 6" WAS FEED INF

4	EA	08" FLG 90 CL/PC USA	(49)	\$343.04	\$1,372.16
1	EA	08" FLG TEE CL/PC USA	(157)	\$662.40	\$662.40
2	EA	08"x 2' 6" FLG x PE CL/PC 1- (1"NT)	(212)	\$219.45	\$438.90
2	EA	08"x 3' 6" FLG x FLG CL/PC	(230)	\$258.12	\$516.24

QUANTITY	UNIT	DESCRIPTION	TOTAL WEIGHT	UNIT PRICE	TOTAL PRICE
2	EA	08"x 11' 0" FLG x FLG CL/PC	806	\$511.92	\$1,023.84
1	EA	08"x 19' 6" FLG x PE CL/PC	645	\$726.48	\$726.48
1	EA	08" MJ 90 C153 CL/TC USA	57	\$145.60	\$145.60
2	EA	08" MEGALUG 1100 SET (DI) USA		\$44.19	\$88.38
<u>ADDED MATERIAL 6" WAS RECIRC.</u>					
1	EA	08" FLG 90 CL/PC USA	601	\$343.04	\$343.04
1	EA	08" FLG 45 CL/PC USA	700	\$275.84	\$275.84
1	EA	08"x 16' 0" FLG x FLG CL/PC	661	\$681.12	\$681.12
1	EA	08"x 8' 0" FLG x FLG CL/PC	608	\$410.40	\$410.40
1	EA	08"x 2' 0" FLG x FLG CL/PC	117	\$207.36	\$207.36
1	EA	08"x 2' 6" FLG x WC x TMJ CL/PC	55	\$446.28	\$446.28
1	EA	08" MEGALUG 1100 SET (DI) USA		\$44.19	\$44.19
TOTAL ALL ITEMS LISTED ABOVE					\$11,229.89
DELTA					\$3,457.20
ADDITIONAL DRAFTNG CHARGES					\$1,000.00

NOTE: PRICING DOES NOT INCLUDE AN TAXES



REQUEST FOR CHANGE PROPOSAL (RCP)

To: TA Loving Inc.	RCP No.: RCP-2
400 Patetown Rd	Date: Feb. 07, 2020
Goldsboro, NC 27530	Project: Northeast WWTP Plant Expansion
Att. Mr. David Pittman	Owner: Brunswick County Public Utilities

Description of Change: Change DIP to PVC in Select Locations

At the request of Owner, provide a credit quote to change DIP to C900/905 Restrained Joint PVC Pipe in locations noted. See attachments for locations.

Pricing:

Provide a detailed credit breakdown for the requested change in accordance with Contract Requirements.

The proposed changes described herein are being considered for the above-noted project. Please advise us promptly of your proposed change in contract price and time to accomplish this work. Note that this is not an order to proceed with the proposed change. Notice-to-proceed will be issued later in the form of a Change Order, if it is decided to proceed with this change.

Owner/Representative

Cc: Bob Tweedy PE, BCPU via/email
Paul Biagiotti, BCPU via/email
James Beachum, BCPU via/email
Tony Boahn PE, MCE via/email
File: M&C 00069-0047-63A



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 004
Rev000

PROPOSED CHANGE ORDER

Project Name: Northeast Brunswick Regional WWTP Facility Expansion
Location: Navassa, NC
Owner: Brunswick County
Engineer: McKim&Creed

TAL Proj. No. 3845
Date 2/17/2020
Drawing No.
Spec. Section

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 004 _____ Other Change Request _____

PCO TITLE and Description: This Change Order is for changing DIP to PVC (RCP #2). This change will effect the schedule by 4 weeks due to revising shop drawings.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	(\$12,079.68)
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 0 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	(\$12,079.68)
6. OVERHEAD & PROFIT ON DIRECT WORK.....	\$0.00
7. TOTAL DIRECT WORK	(\$12,079.68)

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
8. SUB-TOTAL SUBCONTRACTOR WORK:			\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK.....	15%		\$0.00
10. TOTAL SUBCONTRACTOR WORK.....			\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....			(\$12,079.68)
12. BOND & INSURANCE: 0.00% of subtotal # 11			\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....			(\$12,079.68)

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				(\$12,079.68)
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				(\$12,079.68)
E. Sales Tax	Exempt		of D	\$0.00
F. TOTAL MATERIAL				(\$12,079.68)
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	Deleted DIP	1	LS	-\$226,955.94	(\$226,955.94)						0.00
	Add PVC	1	LS	\$185,052.74	\$185,052.74						
	Revised Pipe Drawings	1	LS	\$2,500.00	\$2,500.00						
	PVC Pipe Fittings	1	LS	\$8,823.52	\$8,823.52						
	Misc. PVC Pipe Connections	1	LS	\$18,500.00	\$18,500.00						
					(12,079.68)		0.00		0.00		0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 004
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 4 weeks.

TOTAL DAYS 28



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 004
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager				HR				
	Superintendent				HR				
	Project Engineer				HR				
	Surveyor				HR				
	Foreman				HR				
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00

David Pittman

From: Brent Brewer - 1689 NORTH_CAROLINA_WW <brent.brewer@ferguson.com>
Sent: Wednesday, February 12, 2020 4:33 PM
To: David Pittman
Subject: Email Bid# B642104

NE BRUNSWICK WWTP
DI TO PVC

Price Quotation # B642104**FERGUSON WATERWORKS #1689**

1044 TAYLOR'S CREEK DRIVE
GREENVILLE, NC 27834-1044

Phone : 252-321-1132
Fax : 252-321-1945

Bid No.....: B642104
Bid Date....: 02/07/20
Quoted By: BB
Customer.: T A LOVING
NE BRUNSWICK REG WWTP EXP
PO BOX 919
GOLDSBORO, NC 27533-0919

Cust Phone: 919-734-8400
Terms.....: NET 10TH PROX
Ship To.....: T A LOVING
NE BRUNSWICK REG WWTP EXP
PO BOX 919
GOLDSBORO, NC 27533-0919

Cust PO#...: PVC 30 DAY PRICING

Job Name.: NE BRUNSWICK WWTP

Item	Description	Quantity	Net Price	UM	Total

	NE BRUNSWICK WWTP				
	PVC REPLACING IRON				

	HEADWORKS				
E213000	30 MEGAFLANGE FLG ADPT	1	1727.000	EA	1727.00
SSLCEP30	30 PVC WDG REST GLND PK *ONELOK	25	872.401	EA	21810.03
DR21GP30	30 C900 DR21 CL200 PVC GJ GREE PIPE	100	88.000	FT	8800.00
SPWPC30	30 SIGMA BELL REST F/ C900 *PVLOK	4	1434.383	EA	5737.53
	SUBTOTAL				38074.56
DR21GP24	24 C900 DR21 CL200 PVC GJ GREE PIPE	40	57.900	FT	2316.00
SPWPC24	24 SIGMA BELL REST F/ C900 *PVLOK	1	748.420	EA	748.42
DR21GP24	24 C900 DR21 CL200 PVC GJ GREE PIPE	20	57.900	FT	1158.00
SSLCEP24	24 PVC WDG REST GLND PK *ONELOK	20	329.740	EA	6594.80
E212400	24 MEGAFLANGE FLG ADPT	5	1158.000	EA	5790.00
	SUBTOTAL				16607.22
	EQ PUMP STATION				
SSLCEP18	18 PVC WDG REST GLND PK *ONELOK	7	232.510	EA	1627.57
SSLCEP24	24 PVC WDG REST GLND PK *ONELOK	34	329.740	EA	11211.16

	SUBTOTAL				12838.73
DR21GP20	20 C900 DR21 CL200 PVC GJ GREE PIPE	20	41.570	FT	831.40
SPWPC20	20 SIGMA BELL REST F/ C900 *PVLOK	1	507.930	EA	507.93
DR21GP18	18 C900 DR21 CL200 PVC GJ GREE PIPE	20	34.000	FT	680.00
DR21GP24	24 C900 DR21 CL200 PVC GJ GREE PIPE	800	57.900	FT	46320.00
SPWPC24	24 SIGMA BELL REST F/ C900 *PVLOK	40	748.418	EA	29936.72
	SUBTOTAL				78276.05
DR21GP16	16 C900 DR21 CL200 PVC GJ GREE PIPE	500	29.200	FT	14600.00
SPWPC16	16 SIGMA BELL REST F/ C900 *PVLOK	25	298.319	EA	7457.98
RFCAS01174016000	16 FLG COUP ADPT 17.40	3	1211.000	EA	3633.00
R202S211031	*CVR* 202S-21.10 X 3/4 CC OD RANGE	3	621.320	EA	1863.96
	SUBTOTAL				27554.94
	TOTAL				173351.50

Subtotal: \$173351.50

Inbound Freight: \$0.00

Tax: \$11701.24

Order Total: \$185052.74

Additional High Pnt. Chads Ends

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>. Govt Buyers: All items quoted are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.

HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Enter the following link to complete a survey about your bids:
<https://survey.medallia.com/?bidsorder&fc=1689&on=90610>

QUAN	UNIT	DESCRIPTION		TOTAL WEIGHT	UNIT PRICE	TOTAL PRICE
DELETED PIPE AND MEGALUGS - SHEET 9-D						
(1)	EA	24"x 6' 9" FLG x PE 401/PC	INF38	(1,029)	\$1,719.45	(\$1,719.45)
(1)	EA	24"x 6' 9" PE x PE 401/TC	INF39	(848)	\$642.74	(\$642.74)
(1)	EA	24"x 5' 0" FLG x WC x PE 401/PC	INF40	(781)	\$1,567.71	(\$1,567.71)
(20)	FT	24" R.J. x PETJ CL200 17'8 NOM 401/TC	INF42	(1,722)	\$104.21	(\$2,084.20)
(20)	FT	24" R.J. DIP CL200 19'9 NOM 401/TC	INF42	(1,722)	\$126.47	(\$2,529.40)
(20)	FT	24" P.O. DIP CL200 20' NOM 401/TC	INF43	(1,712)	\$91.82	(\$1,836.40)
(36)	FT	30" P.O. DIP CL200 18' NOM 401/TC	INF44	(3,410)	\$140.61	(\$5,061.96)
(1)	EA	30"x 2' 2" FLG x PE 401/PC	INF32	(618)	\$1,151.90	(\$1,151.90)
(12)	EA	24" MEGALUG 1100 SET (DI) USA	RESTRAINTS		\$341.28	(\$4,095.36)
(20)	EA	30" MEGALUG 1100 SET (DI) USA	RESTRAINTS		\$789.35	(\$15,787.00)
(1)	EA	16" MEGALUG 1100 SET (DI) USA	RESTRAINTS		\$151.05	(\$151.05)
(6)	EA	24" MEGALUG 1100 SET (DI) USA	VALVE RESTRAINTS		\$341.28	(\$2,047.68)
(2)	EA	30" MEGALUG 1100 SET (DI) USA	VALVE RESTRAINTS		\$789.35	(\$1,578.70)
DELETED PIPE AND MEGALUGS - SHEET 15-F						
(80)	FT	24" R.J. x PETJ CL200 17'8 NOM 401/TC	INF53	(6,888)	\$104.21	(\$8,336.80)
(420)	FT	24" R.J. DIP CL200 19'9 NOM 401/TC	INF54	(36,162)	\$126.47	(\$53,117.40)
(140)	FT	24" R.J. DIP CL200 19'9 NOM 401/TC	INF55	(12,054)	\$126.47	(\$17,705.80)
(100)	FT	24" R.J. DIP CL200 19'9 NOM 401/TC	INF56	(8,610)	\$126.47	(\$12,647.00)
(28)	EA	24" MEGALUG 1100 SET (DI) USA	VALVE RESTRAINTS		\$341.28	(\$9,555.84)
(2)	EA	24" MEGALUG 1100 GLAND (DI) USA	VALVE RESTRAINTS		\$304.01	(\$608.02)
DELETED PIPE AND MEGALUGS - SHEET 16-F						
(3)	EA	18"x 12' 0" FLG x PE 401/PC	EPS8	(3,436)	\$1,958.40	(\$5,875.20)
(3)	EA	16"x 14' 0" FLG x FLG 401/PC	EPS7	(1,704)	\$2,105.12	(\$6,315.36)
(30)	FT	18" P.O. DIP CL250 20' NOM 401/TC	EPS9	(1,815)	\$67.84	(\$2,035.20)
(16)	FT	18" P.O. DIP CL250 20' NOM 401/TC	EPS10	(968)	\$67.84	(\$1,085.44)
(20)	FT	18" P.O. DIP CL250 20' NOM 401/TC	EPS13	(1,410)	\$67.84	(\$1,356.80)
(1)	EA	18"x 7' 0" FLG x RJP 401/PC	EPS11	(708)	\$1,734.05	(\$1,734.05)
(8)	FT	18" P.O. DIP CL250 20' NOM 401/TC	EPS12	(984)	\$67.84	(\$542.72)
(3)	EA	18x16" FLG 90 401/PC USA	EPS1	(1,360)	\$4,144.64	(\$12,433.92)
(13)	EA	18" MEGALUG 1100 SET (DI) USA			\$204.39	(\$2,657.07)
(6)	EA	20" MEGALUG 1100 SET (DI) USA			\$250.91	(\$1,505.46)
(1)	EA	24" MEGALUG 1100 SET (DI) USA			\$341.28	(\$341.28)
DELETED PIPE AND MEGALUGS - SHEET 20-H						
(40)	FT	16" R.J. x PETJ CL250 19'9 NOM 401/TC		(2,692)	\$63.28	(\$2,531.20)
(380)	FT	16" R.J. DIP CL250 19'9 NOM 401/TC		(19,874)	\$77.18	(\$29,328.40)
(20)	FT	16" R.J. DIP CL250 19'9 NOM 401/TC		(1,046)	\$77.18	(\$1,543.60)
(40)	FT	16" R.J. DIP CL250 19'9 NOM 401/TC		(2,692)	\$77.18	(\$3,087.20)
(20)	FT	16" P.O. DIP CL250 20' NOM 401/TC		(1,046)	\$57.45	(\$1,149.00)
(18)	FT	30" R.J. x PETJ CL200 17'11 NOM 401/TC		(2,205)	\$165.45	(\$2,978.10)
(18)	FT	30" R.J. DIP CL200 17'11 NOM 401/TC		(2,405)	\$191.81	(\$3,452.58)
(11)	EA	16" MEGALUG 1100 SET (DI) USA			\$151.05	(\$1,661.55)
(4)	EA	30" MEGALUG 1100 SET (DI) USA			\$789.35	(\$3,157.40)
TOTAL ALL ITEMS LISTED ABOVE						(\$226,995.94)



**REQUEST FOR
CHANGE PROPOSAL (RCP)**

To: TA Loving Inc.	RCP No.: RCP-5 Rev.1
400 Patetown Rd	Date: March 31, 2020
Goldsboro, NC 27530	Project: Northeast WWTP Plant Expansion
Att. Mr. David Pittman	Owner: Brunswick County Public Utilities

Description of Change: Oxidation Ditch Piping Size Change

Provide and install 30 inch DIP in place of piping shown on original contract drawings. See attached drawing for extent of piping change. Change is requested to allow for 2.5 mgd flowrate to pass through each oxidation ditch to MLSS distribution box. Current design would only allow for 1.25 mgd to pass through each ditch which is not consistent with Kruger process requirements.

Wall pipe to receive piping in bottom of effluent boxes shall change from 18 inch to 30 inch.

Effluent box will require redesign to receive 30 inch pipe. Structure design changes are attached.

Attachments: M20.0, M20.1, C03.2, S20.0, S20.1, S20.2, S20.3

Pricing:

Provide a detailed cost breakdown for the requested change in accordance with Contract Requirements.

The proposed changes described herein are being considered for the above-noted project. Please advise us promptly of your proposed change in contract price and time to accomplish this work. Note that this is not an order to proceed with the proposed change. Notice-to-proceed will be issued later in the form of a Change Order, if it is decided to proceed with this change.

Owner/Representative

Cc: Bob Tweedy PE, BCPU via/email
Paul Biagiotti, BCPU via/email
James Beachum, BCPU via/email
Tony Boahn PE, MCE via/email
File: M&C 00069-0047-63A



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 005
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	4/6/2020
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 005 Other Change Request _____

PCO TITLE and Description: This Change Order is for changing the size of DI pipe from 18" to 30" from Oxidation Ditch to MLSS Distribution Box. This change also requires for the effluent trough of Oxidation Ditch to be redesigned.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$10,914.12
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 10 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$10,914.12
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$1,637.12
7. TOTAL DIRECT WORK	\$12,551.24

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
National Erectors	Rebar and Formwork	4/3/2020	
			\$5,400.00

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$5,400.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%	\$270.00
10. TOTAL SUBCONTRACTOR WORK.....	\$5,670.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$18,221.24
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$18,221.24

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$10,224.00
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$10,224.00
E. Sales Tax	Exempt	6.75%	of D	\$690.12
F. TOTAL MATERIAL				\$10,914.12
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



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Proposed Change
Order
No.: 002
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	Deleted 24" Plug Valve	1	LS	-\$14,872.00	(\$14,872.00)						0.00
	Change DIP to 30"	1	LS	\$22,150.00	\$22,150.00						
	Drafting Revisions	1	LS	\$1,000.00	\$1,000.00						
	Additional Concrete	1	LS	\$1,072.00	\$1,072.00						
	Slab Formwork	1	LS	\$504.00	\$504.00						
	Rub and Patch	1	LS	\$370.00	\$370.00						
					\$0.00						
					10,224.00		0.00		0.00		0.00



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Proposed Change
Order
No.: 005
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 10 days.

TOTAL DAYS 10



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
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Proposed Change
Order
No.: 005
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00

David Pittman

From: Brent.Brewer@Ferguson.com
Sent: Tuesday, March 24, 2020 12:42 PM
To: David Pittman
Subject: NE BRUNSWICK WWTP VALVE CHANGES

David,

Here is the info for switching the 24 and 30 MJ Plug Valves.....

Credit for 24 MJ Plug Valve	- \$14872.00
Cost for 30 MJ Plug Valve 100% port	\$33182.00

Respectfully,

P. Brent Brewer
Ferguson Waterworks N.C.
T: 252-321-1132 F: 252-321-1945
C: 252-341-2975
E: brent.brewer@ferguson.com
W: www.ferguson.com

QUAN UNIT DESCRIPTION

TOTAL WEIGHT UNIT PRICE TOTAL PRICE

DELETED MATERIALS

(2)	EA	18"x 9' 0" PE x DWC x PE CL/PC	(1.537)	\$1,058.25	(\$2,116.50)
(2)	EA	18" MJ 90 C153 CL/TC USA	(670)	\$1,142.70	(\$2,285.40)
(1)	EA	24x18" MJ TEE C153 CL/TC USA	(625)	\$2,231.45	(\$2,231.45)
(1)	EA	24" MJ PLUG C153 TL/TC USA	(175)	\$1,134.90	(\$1,134.90)
(1)	EA	30x24" MJ CON RED BB C153 CL/TC USA	(478)	\$2,289.30	(\$2,289.30)
(1)	EA	30x18" MJ TEE C110 401/TC USA	(1,845)	\$12,104.40	(\$12,104.40)
(6)	EA	18" MEGALUG 1100 SET (D) USA		\$204.39	(\$1,226.34)
(3)	EA	24" MEGALUG 1100 SET (D) USA		\$341.28	(\$1,023.84)
(1)	EA	24" MJ B/N & SBR GASKET SET (NO GLAND)		\$38.82	(\$38.82)
(3)	EA	30" MEGALUG 1100 SET (D) USA		\$789.35	(\$2,368.05)
(18)	FT	18" P.O. DIP CL250 20' NOM CL/TC	(1,089)	\$45.16	(\$812.88)
(40)	FT	24" P.O. DIP CL200 20' NOM CL/TC	(3,444)	\$63.70	(\$2,548.00)

TOTAL DELETED MATERIAL

(\$30,179.88)

ADDITIONAL MATERIAL

2	EA	30"x 9' 0" PE x DWC x PE CL/PC	2,927	\$2,182.29	\$4,364.58
2	EA	30" MJ 90 C153 CL/TC USA	1,860	\$5,223.60	\$10,447.20
2	EA	30" MJ TEE C153 CL/TC USA	2,646	\$7,431.12	\$14,862.24
1	EA	30" MJ CAP C153 TL/TC USA	345	\$1,938.96	\$1,938.96
10	EA	30" MEGALUG 1100 SET (D) USA		\$789.35	\$7,893.50
1	EA	30" MEGALUG 2000PV SET (PVC) USA		\$897.96	\$897.96

2	EA	30" MEGALUG 1100 SET (DI)	USA	VALVES		\$789.35	\$1,578.70
90	FT	30" P.O. DIP CL200 18' NOM	CL/TC		11,025	\$103.85	\$9,346.50

TOTAL ALL ITEMS LISTED ABOVE	\$51,329.64
------------------------------	-------------

DRAFTING REVISIONS	\$1,000.00
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TOTAL DELTA	\$22,149.76
-------------	-------------

From: David Pittman
Sent: Friday, April 3, 2020 2:35 PM
To: Chase Hartley
Subject: Fwd: PCO #5 bio revisions

Sent from my iPhone

Begin forwarded message:

From: "Mark Smith (National Erectors)" <markne@bellsouth.net>
Date: April 3, 2020 at 2:03:36 PM EDT
To: David Pittman <dpittman@taloving.com>
Subject: PCO #5 bio revisions

David

For additional formwork and to furnish and install additional rebar for trough revisions and added columns

Please issue a change order in the amount of \$5,400.00.

NATIONAL ERECTORS, INC.

Mark K. Smith
General Manager

910.618.9200
910.618.0050 Fax
910.617.7272 Cell

FIELD ORDER 4

Project: Northeast Brunswick Regional Water Reclamation Facility 2.5 MGD Facility Expansion

From: Stacey Magnus

To: David Pittman

Date: Feb. 20, 2020

TA Loving Company

Re: Update to Conduit and Wire Schedule due to Recent Submittals

You are hereby directed to execute promptly this Field Order which interprets the Contract Documents or orders minor changes in the Work without change in Contract Sum or Contract Time in accordance with Contract General Conditions Article 42.

If you consider that a change in Contract Sum or Contract Time is required, submit a Change Order Request to the A/E immediately and prior to proceeding with this Work.

Specification Section: 26 05 19

Drawing Reference: E1.0, 2.02, 2.09, 2.21 Detail: N/A

Description of Interpretation or Change:

During Engineer's review of shop drawings for the EQ pump Station Pumps, it was found that the submitted Fairbanks pumps drew higher amps than those planned for on the Electrical sheets. In reviewing the issue, the Electrical Engineer noted that the basis of design used the NEC Table 430.250 "Full Load Current, Three Phase Alternating Current Motors". From NEC 430.250, "The following values of full-load currents are typical for motors running at speeds usual for belted motors and motors with normal torque characteristics". Electrical Engineer further noted that it's not unusual for the actual FLA to vary from the NEC table as the table does not take into considerations such as the head on the pump or the shape of the volute which can also impact the FLA. It must be noted that Fairbanks is listed in specification section 26 05 19 as an acceptable pump mfr.

Again because of the higher amps, the original MCC frame size and proposed breakers included in the contract and the size of the associated conductors/conduit were all increased in size for the higher electrical load.

A similar issue was encountered while reviewing the Non-Potable Water Pumps submittal and

the backup generator power submittal.

The MCC change and associated conduit/conductor change is noted on the revised drawing E2.02 (attached). Future conduits impacted by this change are documented on revised drawing E2.09 (attached).

During the review of the generator submittal, it was found that the service conductors from LP 100 to GEN 100 needed to be increased. The load on the submitted GEN 100 panel was higher than that designed for. See drawing E1.00 attached. Note Panel directory for LP100 will require adjustment for this increase.

With respect to the NPW pumps and similar to the EQ pumps above, the submittal included 25 hp pumps with a FLA of 28.5 whereas the contract drawings included 15 hp pumps with FLA of 21. This increase requires the MCC frame size to increase along with an increase in conduit/conductor size. The MCC change and associated conduit/conductor change is noted on the revised drawing E2.21 (attached).

Cost reflects the difference in price between original MCC frame sizes, breakers and conductor sizes and the required larger sizes for all.

Attachments: Revised drawings E1.0, E2.02, E2.09, and E2.21.
Revised Electrical Raceway and Cable Schedule

Copies: File 00069-0047

Stacey Magnus, MCE
Bob Tweedy PE, Sr. Utility Manager BCPU
Tony Boahn PE, MCE
James Beachum, BCPU
Paul Biagiotti, BCPU
Chase Hartley, TA Loving

Signed _____
Sr. Construction Administrator
Stacey Magnus



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 005
Rev000

PROPOSED CHANGE ORDER

Project Name: Northeast Brunswick Regional WWTP Facility Expansion
Location: Navassa, NC
Owner: Brunswick County
Engineer: McKim&Creed

TAL Proj. No. 3845
Date 3/24/2020
Drawing No.
Spec. Section

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 004 _____ Other Change Request _____

PCO TITLE and Description: This Change Order is for upsizing RVSS, BRKRS, Starters, and generator lighting panel feeder, breaker, conduit, and wire size. This will effect the schedule by 1 week.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$0.00
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 0 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$0.00
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$0.00
7. TOTAL DIRECT WORK	\$0.00

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
Melton Electric, Inc.	Upsize RVSS, BRKRS, and Starters for MCC. Also upsize generator lighting panel feeder, breaker, conduit, and wire sizes.	3/22/2020	\$46,367.07

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$46,367.07
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%	\$2,318.35
10. TOTAL SUBCONTRACTOR WORK.....	\$48,685.42
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$48,685.42
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$48,685.42

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$0.00
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$0.00
E. Sales Tax	Exempt		of D	\$0.00
F. TOTAL MATERIAL				\$0.00
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
			LS		\$0.00						0.00
			LS		\$0.00						
			LS		\$0.00						
			LS		\$0.00						
					0.00		0.00		0.00		0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 005
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 1 weeks.

TOTAL DAYS 7



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 005
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager				HR				
	Superintendent				HR				
	Project Engineer				HR				
	Surveyor				HR				
	Foreman				HR				
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00

MELTON ELECTRIC, INC.

111 Jacob Lane Myrtle Beach S.C. 29579

P - (843) 236-3030 F - (843) 236-3040

3/22/2020 Revised 3.24.2020 LWB.

GC: TA Loving

Attn: David Pittman

From: Leland Burnham

COR-04-LB Rev A RE: Field Directive #4

Job Name: Northeastern

Upsize (3) RVSS @MCC-100 from 150 HP to 175 HP, including Brkrs, RVSS, conduit and wire to EQ Pump St.

Upsize (3) future RVSS Brkrs @MCC-110 from 150 HP to 175 HP. Upsize future conduits to 2.5" EQ PS.

Upsize (2) FVNR starters @MCC-120 to 25 HP

Upsize generator lighting panel feeder, breaker, conduit and wire size.

Request additional time based on man-hours submitted per this change order request number

Description of Material	Qty		Mat Unit	Mat Ext	Lbr Unit	Lbr Ext	Lbr Cost	Lbr Total
RVSS Upsize conduit & Wire								
2" PVC Conduit	-4500	ea	0.51	-2295.00	0.050	-225.00	58.00	-13050.00
2" PVC Coupling	-45	ea	0.52	-23.40	0.050	-2.25	58.00	-130.50
2" PVC Female adapter	-18	ea	0.55	-9.90	0.150	-2.70	58.00	-156.60
2" PVC Elbow	-24	ea	3.89	-93.36	0.180	-4.32	58.00	-250.56
2" PVC Bell end	-42	ea	1.89	-79.38	0.065	-2.73	58.00	-158.34
2" PVC RAL Elbow	-21	ea	30.00	-630.00	0.350	-7.35	58.00	-426.30
2" PVC RAL Coupling	-24	ea	9.47	-227.28	0.100	-2.40	58.00	-139.20
2" x 4' PVC RAL Nipple cut & Thrd	-6	ea	38.00	-228.00	0.700	-4.20	58.00	-243.60
2" x 2.5' PVC RAL Nipple cut & Thrd	-9	ea	23.75	-213.75	0.700	-6.30	58.00	-365.40
2" x 18" PVC RAL Nipplecut & Thrd	-6	ea	14.25	-85.50	0.700	-4.20	58.00	-243.60
2" x 12" PVC RAL Nipplecut & Thrd	-3	ea	9.50	-28.50	0.700	-2.10	58.00	-121.80
2" EYS Hazardous location ftg.	-3	ea	100.25	-300.75	0.750	-2.25	58.00	-130.50
2" Meyers Hubs	-12	ea	67.29	-807.48	0.250	-3.00	58.00	-174.00
2" SS Kindorf Straps	-18	ea	3.99	-71.82	0.250	-4.50	58.00	-261.00
4/0 Wire	-6480	ea	2.15	-13932.00	0.017	-106.92	58.00	-6201.36
4/0 Terminations	-45	ea	0.00	0.00	0.070	-3.15	58.00	-182.70
4/0 Termination lugs @ Term Box	-9	ea	15.70	-141.30	0.400	-3.60	58.00	-208.80
2" PVC Pipe cap	-3	ea	3.51	-10.53	0.175	-0.53	58.00	-30.45
2" LB	-3	ea	118.00	-354.00	0.450	-1.35	58.00	-78.30
2.5" PVC Conduit	4500	ea	1.02	4590.00	0.065	292.50	58.00	16965.00
2.5" PVC Coupling	45	ea	0.65	29.25	0.075	3.38	58.00	195.75
2.5" PVC Female adapter	18	ea	0.70	12.60	0.200	3.60	58.00	208.80
2.5" PVC Elbow	24	ea	7.89	189.36	0.250	6.00	58.00	348.00
2.5" PVC Bell end	42	ea	2.49	104.58	0.075	3.15	58.00	182.70
2.5" PVC RAL Elbow	21	ea	68.99	1448.79	0.500	10.50	58.00	609.00
2.5" PVC RAL Coupling	24	ea	36.10	866.40	0.120	2.88	58.00	167.04
2.5" x 4' PVC RAL Nipp. / cut & Thrd	6	ea	86.32	517.92	0.900	5.40	58.00	313.20
2.5" x 2.5' PVC RAL Nipp. cut & Thrd	9	ea	53.96	485.64	0.900	8.10	58.00	469.80
2.5" x 18" PVC RAL Nipp. cut & Thrd	6	ea	32.37	194.22	0.900	5.40	58.00	313.20
2.5" x 12" PVC RAL Nipp. cut & Thrd	3	ea	21.58	64.74	0.900	2.70	58.00	156.60
2.5" EYS Hazardous location ftg.	3	ea	179.48	538.44	1.250	3.75	58.00	217.50
2.5" Meyers Hubs	12	ea	115.27	1383.24	0.400	4.80	58.00	278.40
2.5" SS Kindorf Straps	18	ea	7.15	128.70	0.350	6.30	58.00	365.40
250 Kcmil wire	6480	ea	3.19	20677.68	0.020	129.60	58.00	7516.80
250 Terminations	45	ea	0.00	0.00	0.100	4.50	58.00	261.00
250 Termination lugs @ Term Box	9	ea	21.80	196.20	0.500	4.50	58.00	261.00
2.5" PVC pipe cap	3	ea	3.99	11.97	0.200	0.60	58.00	34.80
2.5" LB	3	ea	160.47	481.41	0.600	1.80	58.00	104.40
Seimens Upsize RVSS	0	ea	0.00	0.00	0.000	0.00	58.00	0.00
Seimens upsize (3) SSRV's 175HP	1	ea	14532.00	14532.00	0.000	0.00	58.00	0.00
Seimens upsize (3) SSRV's spaces	1	ea	1927.50	1927.50	0.000	0.00	58.00	0.00
Seimens upsize (3) FVNR's 25HP	1	ea	1050.00	1050.00	0.000	0.00	58.00	0.00
Generator Feeder Upsize	0	ea	0.00	0.00	0.000	0.00	58.00	0.00

1.25" PVC Conduit	-100	ea	0.30	-30.00	0.040	-4.00	58.00	-232.00
1.25" PVC FA	-2	ea	0.42	-0.84	0.050	-0.10	58.00	-5.80
1.25" PVC Coupling	-2	ea	0.40	-0.80	0.050	-0.10	58.00	-5.80
1.25" PVC RAL elbow	-2	ea	18.55	-37.10	0.250	-0.50	58.00	-29.00
1.25" PVC RAL coupling	-3	ea	5.84	-17.52	0.075	-0.23	58.00	-13.05
1.25" PVC RAL x 4' Nipple	-2	ea	39.95	-79.90	0.500	-1.00	58.00	-58.00
1.25" RAL Conduit	-15	ea	2.99	-44.85	0.080	-1.20	58.00	-69.60
1.25" Liquid tite	-5	ea	2.50	-12.50	0.175	-0.88	58.00	-50.75
1.25" Liquid tite connector	-2	ea	3.19	-6.38	0.120	-0.24	58.00	-13.92
100A BRKR- Upcharge	1	ea	59.00	59.00	0.000	0.00	58.00	0.00
1.5" PVC Conduit	100	ea	0.60	60.00	0.050	5.00	58.00	290.00
1.5" PVC FA	2	ea	0.50	1.00	0.050	0.10	58.00	5.80
1.5" PVC Coupling	2	ea	0.46	0.92	0.050	0.10	58.00	5.80
1.5" PVC RAL elbow	2	ea	24.81	49.62	0.300	0.60	58.00	34.80
1.5" PVC RAL coupling	3	ea	8.16	24.48	0.090	0.27	58.00	15.66
1.5" PVC RAL x 4' Nipple	2	ea	50.00	100.00	0.650	1.30	58.00	75.40
1.5" RAL Conduit	15	ea	3.25	48.75	0.100	1.50	58.00	87.00
1.5" Liquid tite	5	ea	2.99	14.95	0.200	1.00	58.00	58.00
1.5" Liquid tite connector	2	ea	3.25	6.50	0.150	0.30	58.00	17.40
#2 AWG	460	ea	1.09	501.40	0.015	6.90	58.00	400.20
Total Material				30535.42		119.44		6927.52
Tax On Material				2442.83				
Total Material & Tax				32978.25				
Total Labor				6927.52				
Total Material & Labor				39905.77				
Lighting quote				0.00				
Switchgear quote				0.00				
Equipment lease				0.00				
Quote Freight				0.00				
Tax on quoted items				0.00				
Total quotes & Tax				0.00				
Sub-contractor				0.00				
Overhead				1995.29				
Profit				4190.11				
Bond cost				0.00				
Total Change Order Cost				46,091.17				



T. A. Loving Company - NC GC License No. 325
400 Patetown Road
Goldsboro, North Carolina 27530
Phone: (919) 734-8400

Project: 3845 - Northeast Brunswick Regional WWTP
10480 Royster Rd NE
Navassa, North Carolina 28451

Ductbank Relocation

TO:	Stacey Magnus (McKim & Creed)	FROM:	Chase Hartley (T. A. Loving Company)
DATE INITIATED:	01/09/2020		400 Patetown Road
LOCATION:	Northeast Brunswick WWTP		Goldsboro, North Carolina 27530
PROJECT STAGE:	Pre-Construction	STATUS:	Closed on 04/22/20
COST IMPACT:		DUE DATE:	01/12/2020
DRAWING NUMBER:		COST CODE:	
LINKED DRAWINGS:		SCHEDULE IMPACT:	
		SPEC SECTION:	
		REFERENCE:	

RECEIVED FROM: Leland Burnham (**Melton Electric Inc**)

COPIES TO:

James Beachum (**Brunswick County Public Utilities**), David Pittman (**T. A. Loving Company**), Chris Reeves (**T. A. Loving Company**), Anthony Williford (**T. A. Loving Company**)

Question from Chase Hartley (T. A. Loving Company) at 17:17 on 01/09/2020

Melton Electric is proposing to relocate DB215 per the attached drawing. On the contract drawings it shows the ductbank going along the road to the new EQ Basin, with the 24" piping and also the existing ductbank this will be a very tight fit and could cause a problem down the road if anything ever has to be dug up. Please let us know if this relocation is acceptable.

Attachments:

[Relocate ductbank routing to EQ basin.pdf](#)

Awaiting an Official Response

All Replies:

Response from Chase Hartley (T. A. Loving Company) at 08:55 on 03/18/2020

Attached is breakdown of credit proposal for rerouting ductbank.

Attachments:

[Electrical EQ Basin Ductbank Reroute.pdf](#)

Response from Stacey Magnus (McKim & Creed) at 14:10 on 01/28/2020

Provide a detailed credit proposal for relocation of the duct bank for consideration by Owner. Include in the cost, a provision for concrete encasing duct bank 30 ft centered on ditch.

Attachments:

BY

DATE

COPIES TO

MELTON ELECTRIC, INC.								
111 Jacob Lane Myrtle Beach S.C. 29579								
P - (843) 236-3030 F - (843) 236-3040								
3/6/2020 Revised 3.24.2020 LWB								
GC: TA Loving								
Attn: David Pittman								
From: Leland Burnham			COR-02-LB REV A;Ductbank relocate credit					
Install manhole MH 150 in lower grade at EQ basin.								
Concrete encase, 30' each side of ravine with concrete "location" monument at each side per CM & EE.								
Request additional time based on man-hours submitted per this change order request number								
Description of Material	Qty		Mat Unit	Mat Ext	Lbr Unit	Lbr Ext	Lbr Cost	Lbr Total
3" PVC	-1600	ea	0.94	-1504.00	0.070	-112.00	45.00	-5040.00
2" PVC	-800	ea	0.51	-408.00	0.050	-40.00	45.00	-1800.00
1.5" PVC	-1600	ea	0.32	-512.00	0.050	-80.00	45.00	-3600.00
1" PVC	-1600	ea	0.19	-304.00	0.020	-32.00	45.00	-1440.00
250 kcmil	-4800	ea	2.60	-12480.00	0.018	-86.40	45.00	-3888.00
1/0 awg	-1600	ea	1.10	-1760.00	0.016	-25.60	45.00	-1152.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
	0	ea	0.00	0.00	0.000	0.00	45.00	0.00
Total Material				-16970.88		-376.00		-16920.00
Tax On Material				0.00				
Total Material & Tax				-16970.88				
Total Labor				-16920.00				
Total Material & Labor				-33890.88				
Lighting quote				0.00				
Switchgear quote				0.00				
Equipment lease				0.00				
Quote Freight				0.00				
Tax on quoted items				0.00				
Total quotes & Tax				0.00				
Sub-contractor				0.00				
Overhead				0.00				
Profit				0.00				
Bond cost				0.00				
Total Change Order Cost				(33,890.88)				



Melton Electric Inc

April 5, 2020

Re: Northeastern WWTP #262419-001.A:
Revised credit amount from Manufacturer.

Mr. David Pittman,

Melton Electric, Inc. is pleased to offer the Owner a credit sum of \$8981.00 for the deletion of "Arc Resistant Construction" on MCC100, MCC110 and MCC120.

Manufacturer requires approval of credit prior to resubmittal of MCC's.

Thank you for your consideration,

Leland W. Burnham Jr.

Melton Electric Inc.

O – 843-236-3030

F – 843-236-3040

C – 843-458-4814

Email – Lelandb@meltonelectric-sc.com

Stacey Magnus

From: Bob Tweedy <bob.tweedy@brunswickcountync.gov>
Sent: Wednesday, November 20, 2019 10:37 AM
To: Stacey Magnus
Cc: Tony Boahn; John Nichols; Donald Dixon; Benjamin Heck
Subject: RE: Brunswick County WWTP Expansion- VE Items

Stacey,

The County will accept the \$80k credit offered in Option 2, provided the substituted equipment meets the applicable specifications.

Option 2: MSG 100 will be provided by Russelectric (a subsidiary of Siemens) and Siemens for all remaining switchgear, VFDs etc. Credit offered \$80k.

Thanks to you, TALCO, and their subcontractor for compiling the options offered.

Robert "Bob" Tweedy, PE
Brunswick County Public Utilities
Sr. Utilities Manager - CIP/Infrastructure
bob.tweedy@brunswickcountync.gov
(910) 253-2680

From: Stacey Magnus <SMagnus@mckimcreed.com>
Sent: Friday, November 15, 2019 10:23 AM
To: Bob Tweedy <bob.tweedy@brunswickcountync.gov>; Donald Dixon <Donald.Dixon@brunswickcountync.gov>
Cc: Tony Boahn <TBOAHN@mckimcreed.com>
Subject: RE: Brunswick County WWTP Expansion- VE Items

CAUTION: This email originated from outside of Brunswick County Government. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Bob

The price submitted on bid day was all SQ-D except MSG 100. MSG 100 will be provided by Eaton.

From: Bob Tweedy <bob.tweedy@brunswickcountync.gov>
Sent: Friday, November 15, 2019 9:26 AM
To: Stacey Magnus <SMagnus@mckimcreed.com>; Donald Dixon <Donald.Dixon@brunswickcountync.gov>
Cc: Tony Boahn <TBOAHN@mckimcreed.com>
Subject: RE: Brunswick County WWTP Expansion- VE Items

Stacey,

We need to determine what we are considering changing from.

Please verify/clarify the electrical gear that is currently in the contractor's bid price. Is it all Square D? If not, please describe what is what.

Thanks,
Bob

From: Stacey Magnus <SMagnus@mckimcreed.com>

Sent: Thursday, November 14, 2019 9:59 AM

To: Bob Tweedy <bob.tweedy@brunswickcountync.gov>; Donald Dixon <Donald.Dixon@brunswickcountync.gov>

Cc: Stacey Magnus <SMagnus@mckimcreed.com>; Tony Boahn <TBOAHN@mckimcreed.com>

Subject: Brunswick County WWTP Expansion- VE Items

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Bob

TA Loving has offered the following options/credits regarding changes in electrical equipment vendors:

Option 1: MSG 100 will be provided by Eaton and Eaton for all switchgear except for MCC 100, 110, and 120. These three MCC's shall be Square D including their associated VFDs. Credit offered \$125k.

Option 2: MSG 100 will be provided by Russelectric (a subsidiary of Siemens) and Siemens for all remaining switchgear, VFDs etc. Credit offered \$80k.

MCE has not reviewed information/data to determine whether these offered items meet the specifications.

Please advise if the County would like to proceed with taking a credit offered.

thx

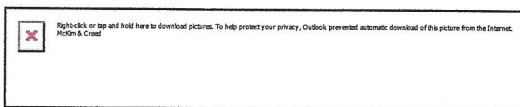
Stacey Magnus | Construction Administrator

T 910.343.1048 | **M** 910.619.7829

243 North Front Street, Wilmington, NC 28401

smagnus@mckimcreed.com | www.mckimcreed.com

Voted "Best Firm To Work For" - Zweig Group



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Stacey Magnus

From: lelandb@meltonelectric-sc.com
Sent: Monday, April 06, 2020 4:57 PM
To: Stacey Magnus; 'David Pittman'
Cc: lelandb@meltonelectric-sc.com; 'Chase Hartley'; 'Larry Melton'
Subject: FW: Melton Electric / Northeast WWTP

Stacey, additional OIT information.

Leland

Melton Electric, Inc.

Leland W. Burnham Jr.

Project Manager

111 Jacob Lane

Myrtle Beach, SC. 29579

[843.236.3030](tel:843.236.3030) Office

[843.236.3040](tel:843.236.3040) Fax

[843.458.4814](tel:843.458.4814) Cell

lelandb@meltonelectric-sc.com

burnhamenergy@aol.com

"The challenge of leadership is to be strong, but not rude; be kind, but not weak; be bold, but not bully; be thoughtful, but not lazy; be humble, but not timid; be proud, but not arrogant; have humor, but without folly."

From: lelandb@meltonelectric-sc.com <lelandb@meltonelectric-sc.com>
Sent: Monday, March 30, 2020 2:40 PM
To: 'Jason Ballou' <Jason.Ballou@cityelectricsupply.com>; 'Richard Smith' <Richard.S.Smith@cityelectricsupply.com>; 'L Melton' <Larrym@meltonelectric-sc.com>; 'Lisa Krewson' <LisaK@meltonelectric-sc.com>; 'Janet Mankey' <janet.mankey@meltonelectric-sc.com>
Cc: lelandb@meltonelectric-sc.com
Subject: RE: Melton Electric / Northeast WWTP

Jason, please take a look at the credits provided.

Seems really low for deleting a 600V 3000A Siemens draw out breaker / 4000A bussing & section component wiring and a complete cubicle section of switch gear.. I believe Mike had \$25000.00 into the second OIT based on previous conversations..

Regards,

Leland

Melton Electric, Inc.

Leland W. Burnham Jr.

Project Manager
111 Jacob Lane
Myrtle Beach, SC. 29579
[843.236.3030](tel:843.236.3030) Office
[843.236.3040](tel:843.236.3040) Fax
[843.458.4814](tel:843.458.4814) Cell

lelandb@meltonelectric-sc.com
burnhamenergy@aol.com

"The challenge of leadership is to be strong, but not rude; be kind, but not weak; be bold, but not bully; be thoughtful, but not lazy; be humble, but not timid; be proud, but not arrogant; have humor, but without folly."

From: Jason Ballou <Jason.Ballou@cityelectricsupply.com>

Sent: Monday, March 30, 2020 8:55 AM

To: Leland B <lelandb@meltonelectric-sc.com>; Richard Smith <Richard.S.Smith@cityelectricsupply.com>; L Melton <Larrym@meltonelectric-sc.com>; Lisa Krewson <LisaK@meltonelectric-sc.com>; Janet Mankey <janet.mankey@meltonelectric-sc.com>

Subject: Melton Electric / Northeast WWTP

The deduct to remove/delete the Russelectric Load Bank/Temp Gen Cubicle and breaker is \$16,459.00

The deduct to remove/delete the Russelectric Remote OIP is \$22,000.00

Please issue change order if these need to be deleted, but I guess you can wait until we have all the submittal comments back in case anything else changes.

From: Leland B <lelandb@meltonelectric-sc.com>

Sent: Sunday, March 29, 2020 11:16 PM

To: Mike Doggett <MDoggett@rwchapman.com>; Jason Ballou <Jason.Ballou@cityelectricsupply.com>; Richard Smith <Richard.S.Smith@cityelectricsupply.com>; Stuart Vaughn <stuart.vaughn@siemens.com>; L Melton <Larrym@meltonelectric-sc.com>; Leland B <LelandB@meltonelectric-sc.com>; Lisa Krewson <LisaK@meltonelectric-sc.com>; Janet Mankey <janet.mankey@meltonelectric-sc.com>

Subject: Melton Electric / Northeast WWTP

All, Owner is in receipt of:

- 1.) Arc fault construction- all MCC credit. Awaiting approval from Owner.
- 2.) SSRV upsize adder. Awaiting approval from Owner.
- 3.) Russ Electric provide credit for loadbank draw out breaker and cubicle delete at MSG 100.
- 4) Russ Electric provide credit for single HMI at MSG 100, no remote HMI unit required.

Once we pull all these items together, and submittals are complete, PO will be revised accordingly..

Leland

Leland W. Burnham
Project Manager
Melton Electric, Inc.

843.458.4814 c
843.236.3030 o



**REQUEST FOR
CHANGE PROPOSAL (RCP)**

To: TA Loving Inc.	RCP No.: RCP-7
400 Patetown Rd	Date: June 01, 2020
Goldsboro, NC 27530	Project: Northeast WWTP Plant Expansion
Att. Mr. David Pittman	Owner: Brunswick County Public Utilities

Description of Change: Pre ATAD Facility (60) Platform Modifications

As shown on the attachments, provide an additional platform to access the west side of Thicker No.2.

In addition, raise the entire original platform as shown on the attachment and adjust the location of the access stair.

Platform is being raised to accommodate access for servicing the unit and is at the recommendation of the equipment manufacturer.

Attachments: Revised drawings S60.1 and S60.4.

Pricing:

Provide a detailed credit breakdown for the requested change in accordance with Contract Requirements.

The proposed changes described herein are being considered for the above-noted project. Please advise us promptly of your proposed change in contract price and time to accomplish this work. Note that this is not an order to proceed with the proposed change. Notice-to-proceed will be issued later in the form of a Change Order, if it is decided to proceed with this change.

Owner/Representative

Cc: Paul Biagiotti, BCPU via/email
James Beachum, BCPU via/email
Tony Boahn PE, MCE via/email
File: M&C 00069-0047-63A



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 007
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	6/5/2020
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 007 _____ Other Change Request _____

PCO TITLE and Description: This Change Order is for changing the Pre-ATAD Thickening Facility Building Platform. Additional platform to access the west side of Thickener No. 2. Raise entire platform and adjust location of stair.

1. LABOR (See attached itemized breakdown)	\$4,970.64
2. MATERIALS (See attached itemized breakdown)	\$10,490.32
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$2,351.52
4. TIME EXTENSION FIELD COSTS** 10 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$17,812.48
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$2,671.87
7. TOTAL DIRECT WORK	\$20,484.35

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
8. SUB-TOTAL SUBCONTRACTOR WORK:			\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%			\$0.00
10. TOTAL SUBCONTRACTOR WORK.....			\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....			\$20,484.35
12. BOND & INSURANCE: 0.00% of subtotal # 11			\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....			\$20,484.35

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$9,827.00
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$9,827.00
E. Sales Tax	Exempt	6.75%	of D	\$663.32
F. TOTAL MATERIAL				\$10,490.32
LABOR COST				
G. Labor (From takeoff worksheet)				\$4,768.00
H. Small Tools		1.50%	of Labor	\$71.52
I. Clean-up		1.00%	of Labor	\$47.68
J. Safety		1.00%	of Labor	\$47.68
K. Safety Training		0.75%	of Labor	\$35.76
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$4,970.64
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$2,208.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$55.20
T. Equipment Repairs		2.00%	of Equipment	\$44.16
U. Equipment Yard Work		2.00%	of Equipment	\$44.16
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$2,351.52



T. A. Loving Company
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Proposed Change
 Order
 No.: 002
 REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	Engineering/Detailing	1	LS	\$3,545.00	\$3,545.00						0.00
	Material	1	LS	\$3,889.00	\$3,889.00						
	Labor	1	LS	\$2,393.00	\$2,393.00						
	Labor Skilled x 3	48	HR		\$0.00	\$60.00	2,880.00				
	Superintendent	4	HR		\$0.00	\$116.00	464.00				
	Foreman	16	HR		\$0.00	\$89.00	1,424.00				
	Rubber Tire Backhoe	8	HR		\$0.00			\$276.00	2,208.00		
					9,827.00		4,768.00		2,208.00		0.00



T. A. Loving Company
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Goldsboro NC 27533-0919
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Proposed Change
Order
No.: 007
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 10 days.

TOTAL DAYS 10



T. A. Loving Company
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Proposed Change
Order
No.: 007
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00



REQUEST FOR CHANGE PROPOSAL (RCP)

To: <u>TA Loving Inc.</u>	RCP No.: <u>RCP-9</u>
<u>400 Patetown Rd</u>	Date: <u>June 22, 2020</u>
<u>Goldsboro, NC 27530</u>	Project: <u>Northeast WWTP Plant Expansion</u>
Att. <u>Mr. David Pittman</u>	Owner: <u>Brunswick County Public Utilities</u>

Description of Change: Clarifier Control Panel Modifications

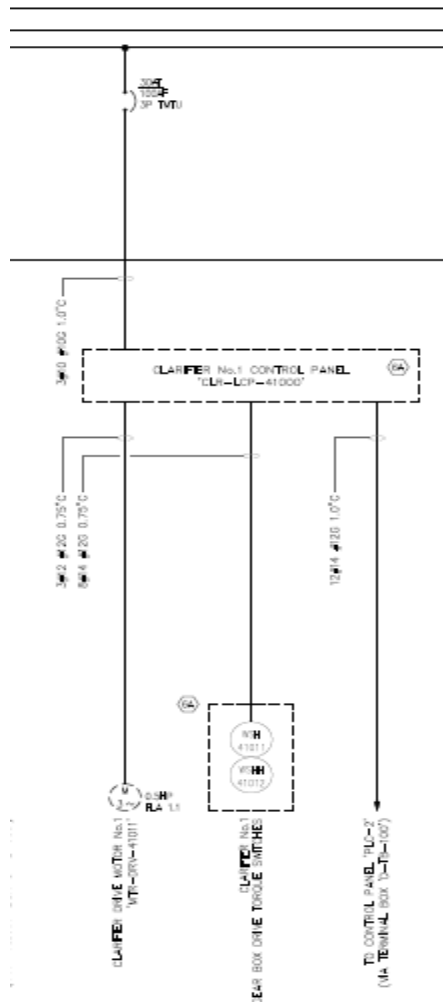
Recently it was determined that Kruger's scope of supply for the Clarifier Control Panels did not include additional internal features in the control panels themselves so as to be integrated into the plant electrical and control system.

RCP 8 requires these panels to be redesigned as required below:

CLARIFIER LOCAL CONTROL PANEL

1. The manufacturer of the sludge collector equipment shall provide a local control panel mounted to the drive service platform of the mechanism. The interconnecting wiring and conduit shall be provided by the Contractor.
2. The local control panel shall include NEMA Size-1, fused, full-voltage non-reversing combination motor controllers with three-leg thermal overload protection and external reset operator, including a main circuit breaker with flange mounted visible disconnect switch, all within a NEMA 4X stainless steel oversized enclosure.
 - a. Additional devices mounted within the enclosure shall include but not limited to:
 1. A fused 0.5 kVA control power transformer.
 2. Overload relay(s), pending overload relay, and alarm silence relay.
 3. Terminal strips for connecting the overload and alarm contacts located in the drive torque monitor.
 - b. Reference Specification Section 26 29 33 for additional requirements
3. External operator controls shall be weatherproof NEMA 4X, oil-tight and corrosion resistant to include but not limited to:
 - a. E-Stop / Disable mushroom push button, mounted on the enclosure door.

- b. Provide a HAND-OFF-AUTO selector switch, mounted on the enclosure door.
 - c. Power ON / Controller READY pilot light, LED, BLUE
 - d. RUNNING pilot light, LED, GREEN, push-to-test
 - e. STOPPED pilot light, LED, RED, push-to-test.
 - f. HAND / AUTO pilot lights, LED, AMBER, push-to-test
 - g. FAULT(S) pilot light, LED, AMBER, push-to-test
 - h. FAULT RESET reset push-button
4. A weatherproof combination horn and light fixture with 100W LED lamp shall be mounted to the top of the enclosure. Provide dry contacts in the control panel for both the clarifier drive motor, scum pump motor, and pending and final overloads signals back to the SCADA system.
5. Contractor shall provide 460V, 3PH, 60 Hz electrical power to the control panel and all interconnecting wire and rigid conduit between the control panel and the torque monitor mounted to the spur gear drive.
6. Reference Specification Section 40 67 00 for additional requirements



Excerpt from contract drawing E2.03:

Attachments: None

Pricing:

Provide a detailed credit breakdown for the requested change in accordance with Contract Requirements.

The proposed changes described herein are being considered for the above-noted project. Please advise us promptly of your proposed change in contract price and time to accomplish this work. Note that this is not an order to proceed with the proposed change. Notice-to-proceed will be issued later in the form of a Change Order, if it is decided to proceed with this change.

Owner/Representative

Cc: Paul Biagiotti, BCPU via/email
James Beachum, BCPU via/email
Tony Boahn PE, MCE via/email
File: M&C 00069-0047-63A



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 009
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	7/28/2020
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 009 _____ Other Change Request _____

PCO TITLE and Description: This Change Order is for redesigning the clarifier panels.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$12,810.00
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 0 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$12,810.00
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$1,921.50
7. TOTAL DIRECT WORK	\$14,731.50

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%	\$0.00
10. TOTAL SUBCONTRACTOR WORK.....	\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$14,731.50
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$14,731.50

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$12,000.00
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$12,000.00
E. Sales Tax	Exempt	6.75%	of D	\$810.00
F. TOTAL MATERIAL				\$12,810.00
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
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Goldsboro NC 27533-0919
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Proposed Change
Order
No.: 002
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	Redesign of Clarifier Panels	1	LS	\$12,000.00	\$12,000.00						0.00
			LS		\$0.00						
			LS		\$0.00						
			HR		\$0.00		0.00				
			HR		\$0.00		0.00				
			HR		\$0.00		0.00				
			HR		\$0.00				0.00		
					12,000.00		0.00		0.00		0.00



T. A. Loving Company
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Proposed Change
Order
No.: 009
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 10 days.

TOTAL DAYS 10



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 009
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00



**REQUEST FOR
CHANGE PROPOSAL (RCP)**

To: TA Loving Inc.	RCP No.: RCP-10
400 Patetown Rd	Date: July 22, 2020
Goldsboro, NC 27530	Project: Northeast WWTP Plant Expansion
Att. Mr. David Pittman	Owner: Brunswick County Public Utilities

Description of Change: Disk Filter Control Panel

Recently it was determined that Kruger's scope of supply for the Tertiary Disk Filter did not include the required Tertiary Disk Filter Control Panels (TDF LCP 51000).

RCP 10 requests pricing for the noted panel. Panel shall be provided as shown and detailed in the contract documents. Costs to wire up, mount, and program the panel are already included in the base bid cost price therefore shall not be included in the response to RCP 10.

Attachments: None

Pricing:

Provide a detailed credit breakdown for the requested change in accordance with Contract Requirements.

The proposed changes described herein are being considered for the above-noted project. Please advise us promptly of your proposed change in contract price and time to accomplish this work. Note that this is not an order to proceed with the proposed change. Notice-to-proceed will be issued later in the form of a Change Order, if it is decided to proceed with this change.

Owner/Representative

Cc: Paul Biagiotti, BCPU via/email
James Beachum, BCPU via/email
Tony Boahn PE, MCE via/email
File: M&C 00069-0047-63A



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 010
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	9/8/2020
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 009 _____ Other Change Request _____

PCO TITLE and Description: This Change Order is for the tertiary filter panel being provided by Piedmont Automation instead of Kruger/Veolia.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$16,332.75
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 0 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$16,332.75
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$2,449.91
7. TOTAL DIRECT WORK	\$18,782.66

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%	\$0.00
10. TOTAL SUBCONTRACTOR WORK.....	\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$18,782.66
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$18,782.66

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
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Proposed Change
Order
No.: 010
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$15,300.00
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$15,300.00
E. Sales Tax	Exempt	6.75%	of D	\$1,032.75
F. TOTAL MATERIAL				\$16,332.75
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
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Proposed Change
Order
No.: 010
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	Tertiary Filter Panel	1	LS	\$15,300.00	\$15,300.00						0.00
			LS		\$0.00						
			LS		\$0.00						
			HR		\$0.00		0.00				
			HR		\$0.00		0.00				
			HR		\$0.00		0.00				
			HR		\$0.00				0.00		
					15,300.00		0.00		0.00		0.00



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Proposed Change
Order
No.: 010
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 10 days.

TOTAL DAYS 10



T. A. Loving Company
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Proposed Change
Order
No.: 010
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00



REQUEST FOR CHANGE PROPOSAL (RCP)

To: TA Loving Inc.	RCP No.: RCP-11
400 Patetown Rd	Date: Sept. 8, 2020
Goldsboro, NC 27530	Project: Northeast WWTP Plant Expansion
Att. Mr. David Pittman	Owner: Brunswick County Public Utilities

Description of Change: Odor Control Piping Modifications, Manhole #4 Invert Change, and RFI 27

During the review of the Odor Control Submittals, it was noted that both odor control units require “traps” on their drain piping. The attached drawings detail the required changes to facilitate traps. Please note that the Headworks odor control drain no longer empties into MH #6 but rather discharges into the EQPS. The size of the discharge has also changed.

In addition, the ATAD scrubber discharge has a considerably higher flow rate than that planned for and thus the drain piping has been upsized from 6 inches to 8 inches for a short section. The invert elevation of the same pipe discharge directed into MH #4 has been lowered by 6 inches to facilitate the flow. As MH #4 is already on site, this manhole will require replacement. To facilitate the higher flow rate and to keep flow from impacting the trap, the 24-inch discharge invert from MH #3 into MH #4 was lowered and the discharge out of MH #4 to the EQPS has been lowered.

Also, the 12-inch FA line located under the road near the Headworks Odor Control has been changed from Sch 80 to C900 with restrained joints. Given the shallow depth of the pipe, C900 is better suited for this condition.

WRT RFI 27, C03.3 Rev.1 and E75.0 Rev.1 have been revised to detail the new location of the ATAD Holding Tank transfer pump and associated electrical equipment and piping.

Replace the previously issued Conformed Drawings with the attached drawings.

Attachments: C03.3 Rev.1, M07.0 Rev.1, M10.0 Rev. 1, and E75.0 Rev.1.

Pricing:

Provide a detailed cost breakdown for the requested change in accordance with Contract Requirements.

The proposed changes described herein are being considered for the above-noted project. Please advise us promptly of your proposed change in contract price and time to accomplish this work. Note

that this is not an order to proceed with the proposed change. Notice-to-proceed will be issued later in the form of a Change Order, if it is decided to proceed with this change.

Owner/Representative

Cc: Paul Biagiotti, BCPU via/email
James Beachum, BCPU via/email
Tony Boahn PE, MCE via/email
File: M&C 00069-0047-63A



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 011
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	9/30/2020
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 009 _____ Other Change Request _____

PCO TITLE and Description: This Change Order is for repouring Manhole #4 base and riser.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$6,173.52
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 0 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$6,173.52
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$926.03
7. TOTAL DIRECT WORK	\$7,099.55

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%	\$0.00
10. TOTAL SUBCONTRACTOR WORK.....	\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$7,099.55
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$7,099.55

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 011
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$5,783.16
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$5,783.16
E. Sales Tax	Exempt	6.75%	of D	\$390.36
F. TOTAL MATERIAL				\$6,173.52
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 011
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	Manhole Base and Riser	1	LS	\$2,760.00	\$2,760.00						0.00
	PVC Pipe	1	LS	\$1,662.34	\$1,662.34						
	4" MJ 90	2	EA	\$63.05	\$126.10						
	8" MJ 90	4	EA	\$288.68	\$1,154.72		0.00				
	Change from 6" to 8" DIP	1	LS	\$80.00	\$80.00		0.00				
			HR		\$0.00		0.00				
			HR		\$0.00				0.00		
					5,783.16		0.00		0.00		0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 011
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 10 days.

TOTAL DAYS 10



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 011
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00



REQUEST FOR CHANGE PROPOSAL (RCP)

To: TA Loving Inc.	RCP No.: RCP-12
400 Patetown Rd	Date: Sept. 10, 2020
Goldsboro, NC 27530	Project: Northeast WWTP Plant Expansion
Att. Mr. David Pittman	Owner: Brunswick County Public Utilities

Description of Change: Oxidation Ditch Davit Cranes Support Beams and Grating Support

During the review of the Oxidation Ditch Miscellaneous Metal Submittal, it was noted that under the original design, support framing was not provided for the three davit cranes located on Northern access walkway. The drawings attached hereto detail the required additional support framing. As one of the cranes (East most) support framing connects to the existing walkway support framing, the existing walkway support framing has also been modified herein to receive the crane.

Please note the drawings included herein modify the support framing detailed under Field Order 6.

Also, please note drawings S20.3 and S20.5 are reissued herein to record required changes to the effluent trough which were necessary to accommodate the mounting requirements of the effluent gates. These requirements were discovered during the submittal phase of the Kruger drawings after award.

Attachments: S20.1 Rev. 5, S20.2 Rev. 4, S20.3 Rev. 5, and S20.5 Rev. 3.

Pricing:

Provide a detailed cost breakdown for the requested change in accordance with Contract Requirements.

The proposed changes described herein are being considered for the above-noted project. Please advise us promptly of your proposed change in contract price and time to accomplish this work. Note that this is not an order to proceed with the proposed change. Notice-to-proceed will be issued later in the form of a Change Order, if it is decided to proceed with this change.

Owner/Representative

Cc: Paul Biagiotti, BCPU via/email
James Beachum, BCPU via/email
Tony Boahn PE, MCE via/email
File: M&C 00069-0047-63A



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 012
Rev000

PROPOSED CHANGE ORDER

Project Name: Northeast Brunswick Regional WWTP Facility Expansion
Location: Navassa, NC
Owner: Brunswick County
Engineer: McKim&Creed

TAL Proj. No. 3845
Date 9/15/2020
Drawing No. _____
Spec. Section _____

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 012 Other Change Request _____

PCO TITLE and Description: This Change Order is for the redesign of the Oxidation Ditches after bid time. Beams for grating at the Northend of Oxidation Ditches were not detailed at bid time nor were they called out in the specs to be aluminum. Revised drawings sent out in March and May then detailed the beams to be Aluminum. This change order is also for adding two 112 Aluminum beams to Northeast end of Mixer boxes at the north end of Oxidation Ditches.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$20,213.11
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** <u>0</u> DAYS @ <u>\$0.00</u> PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$20,213.11
6. OVERHEAD & PROFIT ON DIRECT WORK..... <u>15%</u>	\$3,031.97
7. TOTAL DIRECT WORK	\$23,245.08

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
8. SUB-TOTAL SUBCONTRACTOR WORK:			\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... <u>5%</u>			\$0.00
10. TOTAL SUBCONTRACTOR WORK.....			\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....			\$23,245.08
12. BOND & INSURANCE: <u>0.00%</u> of subtotal # 11			\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....			\$23,245.08

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$18,935.00
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$18,935.00
E. Sales Tax	Exempt	6.75%	of D	\$1,278.11
F. TOTAL MATERIAL				\$20,213.11
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	Change Of Galvanized Beams to Aluminum	1	LS	\$4,056.00	\$4,056.00						0.00
	I12 Aluminum Beams	2	LS	\$4,122.50	\$8,245.00						
	Engineering/Detailing	1	LS	\$3,166.00	\$3,166.00						
	Labor	1	LS	\$3,468.00	\$3,468.00		0.00				
			HR		\$0.00		0.00				
			HR		\$0.00		0.00				
			HR		\$0.00				0.00		
					18,935.00		0.00		0.00		0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 012
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 0 days.

TOTAL DAYS 0



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 012
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY			\$	-
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance							\$	-
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00



FIELD ORDER 5

Project: Northeast Brunswick Regional Water Reclamation Facility 2.5 MGD Facility Expansion

From: Stacey Magnus

To: David Pittman

Date: Feb. 24, 2020

TA Loving Company

Re: Redesign of Electrical Bldg. Foundation and Other Changes Necessitated by MSG 100

You are hereby directed to execute promptly this Field Order which interprets the Contract Documents or orders minor changes in the Work without change in Contract Sum or Contract Time in accordance with Contract General Conditions Article 42.

If you consider that a change in Contract Sum or Contract Time is required, submit a Change Order Request to the A/E immediately and prior to proceeding with this Work.

Specification Section: n/a Drawing Reference: E90.0, E90.1, H90.0, S00.7, S90.0, S90.1, and S90.2
Detail: n/a

Description of Interpretation or Change:

As requested by Contractor, the electrical bldg. has been redesigned herein to incorporate a "mat" foundation in place of the as bid "spread footing". Additionally, the layout of the structure has been adjusted to accommodate the MSG 100 produced by Russelectric that was accepted by Owner as apart of the VE negotiations. As the height of the Russelectric MGS unit was taller than the bid unit, the structural drawings detail an adjustment to the double door to accommodate the additional height. Again as a result of the additional height, the HVAC system ductwork in the electrical room has been modified.

Please move forward with incorporating these changes into the work and the onformed set of drawings.

Attachments: Revised drawings E90.0, E90.1, H90.0, S00.7, S90.0, S90.1, and S90.2

Copies: File 00069-0047

Signed _____

Stacey Magnus, MCE
Bob Tweedy PE, Sr. Utility Manager BCPU
Tony Boahn PE, MCE
James Beachum, BCPU
Paul Biagiotti, BCPU
Chase Hartley, TA Loving

Sr. Construction Administrator
Stacey Magnus



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 005
Rev000

PROPOSED CHANGE ORDER

Project Name: Northeast Brunswick Regional WWTP Facility Expansion
Location: Navassa, NC
Owner: Brunswick County
Engineer: McKim&Creed

TAL Proj. No. 3845
Date 4/30/2020
Drawing No.
Spec. Section

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 005 Other Change Request _____

PCO TITLE and Description: This Change Order is for change of HVAC system in the electrical building.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$0.00
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 10 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$0.00
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$0.00
7. TOTAL DIRECT WORK	\$0.00

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
Jessie and Myers Construction Compa	Changing of HVAC System	4/28/2020	
			\$1,850.00

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$1,850.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%	\$92.50
10. TOTAL SUBCONTRACTOR WORK.....	\$1,942.50
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$1,942.50
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$1,942.50

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$0.00
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$0.00
E. Sales Tax	Exempt	6.75%	of D	\$0.00
F. TOTAL MATERIAL				\$0.00
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 002
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
		1	LS		\$0.00						0.00
		1	LS		\$0.00						
		1	LS		\$0.00						
		1	LS		\$0.00						
		1	LS		\$0.00						
		1	LS		\$0.00						
		1	LS		\$0.00						
					0.00		0.00		0.00		0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 005
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

TOTAL DAYS



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 005
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00



REQUEST FOR CHANGE PROPOSAL (RCP)

To: <u>TA Loving Inc.</u>	RCP No.: <u>RCP-14</u>
<u>400 Patetown Rd</u>	Date: <u>Jan. 3, 2021</u>
<u>Goldsboro, NC 27530</u>	Project: <u>Northeast WWTP Plant Expansion</u>
Att. <u>Mr. David Pittman</u>	Owner: <u>Brunswick County Public Utilities</u>

Description of Change: ATAD Odor Control Electrical Ductwork Adjustments

During the review of submittal 44 33 00.02, Engineer noted the electrical demand for LCP 90000 was higher than the basis of design. The original electrical demand (basis of design) was based on draft electrical schematics provided by the Mfr. as the Mfr's final design was not yet available. This increase in demand required an increase in the feeder breaker from 30 to 60 amps with an associated increase in feeder conductors and conduit.

Along with this increase, it was found additional instruments associated with the odor control system required conduit and conductors back to LCP 90000.

Ductwork dimensions and layout were also adjusted during the submittal process to coordinate connections with the proposed equipment.

This RCP provides for an increased main breaker along with conduit and conductors associated with the ATAD OC unit and associated instruments along with changes to the FRP ductwork.

Attachments: Field Order No. 11 and Field Order No. 11 Rev. 1

Pricing:

Provide a detailed cost breakdown for the requested change in accordance with Contract Requirements.

The proposed changes described herein are being considered for the above-noted project. Please advise us promptly of your proposed change in contract price and time to accomplish this work. Note that this is not an order to proceed with the proposed change. Notice-to-proceed will be issued later in the form of a Change Order, if it is decided to proceed with this change.

Owner/Representative

Cc: Bob Tweedy PE, BCPU via/email
Paul Biagiotti, BCPU via/email
James Beachum, BCPU via/email
Tony Boahn PE, MCE via/email
File: M&C 00069-0047-63A



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 015
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	11/12/2020
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 015 Other Change Request _____

PCO TITLE and Description: This Change Order is for ATAD odor control system changes. Change breaker size feed to LCP-9000. Upsize feeder wires to unit. Add additional raceways and wire terminations for filter clogged switch, temp sensor switch, water pump "run signal" and water pump "on signal". Change in ductwork associated with ATAD Odor Control.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$6,085.82
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 0 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$6,085.82
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$912.87
7. TOTAL DIRECT WORK	\$6,998.69

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
Melton Electric, Inc.	ATAD Odor Control System Changes	11/4/2020	
			\$5,662.21

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$5,662.21
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%	\$283.11
10. TOTAL SUBCONTRACTOR WORK.....	\$5,945.32
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$12,944.01
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$12,944.01

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
 400 Patetown Road P.O. Drawer 919
 Goldsboro NC 27533-0919
 919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
 Order
 No.: 015
 Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$5,701.00
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$5,701.00
E. Sales Tax	Exempt	6.75%	of D	\$384.82
F. TOTAL MATERIAL				\$6,085.82
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 015
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	Change in ductwork	1	LS	\$5,701.00	\$5,701.00						0.00
			EA		\$0.00						
			EA		\$0.00						
			EA		\$0.00		0.00				
			EA		\$0.00		0.00				
			EA		\$0.00		0.00				
					\$0.00				0.00		
							0.00				
					5,701.00		0.00		0.00		0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 015
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 0 days.

TOTAL DAYS 0



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 015
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00



REQUEST FOR CHANGE PROPOSAL (RCP)

To: TA Loving Inc.	RCP No.: RCP-17
400 Patetown Rd	Date: Jan. 3, 2021
Goldsboro, NC 27530	Project: Northeast WWTP Plant Expansion
Att. Mr. David Pittman	Owner: Brunswick County Public Utilities

Description of Change: NaOH Chemical Totes and Chemical Containment

Owner requests pricing to replace the specified standard NaOH totes (Spec. Section with 46 33 00. 1.2.A) with cageless totes - 330 Gal Cagebuster IBC Tote by Protank or equal.

In addition, provide pricing to provide and install secondary tote containment under NaOH totes – Model 1140 Twin IBC Spill Pallet without drain or equal.

Contractor shall coordinate mounting of Chemical Containment Area Level Switch High LSH47411 already included in contract.

Contractor shall also coordinate mounting of LI 47400 Chemical Tank Level also already included in the contract.

Attachments: none

Pricing:

Provide a detailed cost breakdown for the requested change in accordance with Contract Requirements.

The proposed changes described herein are being considered for the above-noted project. Please advise us promptly of your proposed change in contract price and time to accomplish this work. Note that this is not an order to proceed with the proposed change. Notice-to-proceed will be issued later in the form of a Change Order, if it is decided to proceed with this change.

Owner/Representative

Cc: Bob Tweedy PE, BCPU via/email
Paul Biagiotti, BCPU via/email

James Beachum, BCPU via/email
Tony Boahn PE, MCE via/email
File: M&C 00069-0047-63A



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 017
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	1/7/2021
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: 017 _____ Other Change Request _____

PCO TITLE and Description: This Change Order is for replacing the specified standard NaOH totes with cageless totes - 330 Gal Cagebuster IBC Tote by Protank or equal. Also to add a secondary containment tote under the NaOH totes - Model 1140 Twin IBC Spill Pallet without drain or equal.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$3,437.35
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 0 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$3,437.35
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$515.60
7. TOTAL DIRECT WORK	\$3,952.95

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%	\$0.00
10. TOTAL SUBCONTRACTOR WORK.....	\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$3,952.95
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$3,952.95

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____

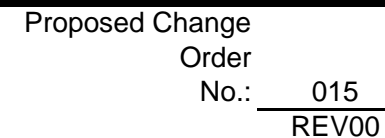


T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 015
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$3,220.00
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$3,220.00
E. Sales Tax	Exempt	6.75%	of D	\$217.35
F. TOTAL MATERIAL				\$3,437.35
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



				MATERIAL		LABOR		EQUIPMENT		OTHER	
ITEM	DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	330 Gal Cagebuster	2	EA	\$529.00	\$1,058.00						0.00
	330 Gal Caged	2	EA	(\$299.00)	(\$598.00)		0.00				0.00
	1140 Twin IBC Spill Pallet without drain	1	EA	\$2,760.00	\$2,760.00						
			EA	\$0.00							
			EA	\$0.00							
			EA	\$0.00							
				\$0.00				0.00			
					3,220.00	0.00	0.00		0.00		



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 017
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 0 days.

TOTAL DAYS 0



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 017
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 018
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	2/3/2021
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: _____ Other_Change Request _____

PCO TITLE and Description: This Change Order is for additional lighting in the electrical room which was requested by the owner.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$0.00
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** 0 DAYS @ \$0.00 PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$0.00
6. OVERHEAD & PROFIT ON DIRECT WORK..... 15%	\$0.00
7. TOTAL DIRECT WORK	\$0.00

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
Melton Electric, Inc.	Additional Lighting	2/3/2021	
			\$3,751.10

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$3,751.10
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... 5%	\$187.56
10. TOTAL SUBCONTRACTOR WORK.....	\$3,938.66
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$3,938.66
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$3,938.66

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 018
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$0.00
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$0.00
E. Sales Tax	Exempt	6.75%	of D	\$0.00
F. TOTAL MATERIAL				\$0.00
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 018
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
			EA		\$0.00						0.00
			EA		\$0.00		0.00		0.00		0.00
			EA		\$0.00						
			EA		\$0.00						
			EA		\$0.00						
			EA		\$0.00						
			EA		\$0.00						
					\$0.00				0.00		
					0.00		0.00		0.00		0.00



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 018
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 0 days.

TOTAL DAYS 0



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 018
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00

MELTON ELECTRIC, INC.

111 Jacob Lane Myrtle Beach S.C. 29579

P - (843) 236-3030	F - (843) 236-3040
--------------------	--------------------

1/27/2021

GC: TA Loving

David Pittman

From: Leland Burnham	CO-24- LB
----------------------	-----------

From: Leland Burnham	CO-24- LB
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Job Name: Northeast WWTP Donald Dixon & Bob Tweedy instructed James Beechum to facillitate install with us.

Per Donald Dixon, provide (4) additional "L2" to eliminate shadows on MCC's and Switch gear, add (2) "EH2" to

illuminate exit corridors upon emergency. Change existing LED exit to combo EM / Exit to illuminate under mech

equipment drain pan at man door in emergency. Add LED strip fixtures at lighting relay panel area and under

mechanical unit drain pan at entry. Provide motion switch for light at relay panels. LED under mech pan on all time.

Request additional time based on man-hours submitted per this change order request number

Description of Material	Qty		Mat Unit	Mat Ext	Lbr unit	Lbr Ext	Lbr Cost	Lbr Total
HE Williams L80 "L2"	4		330.00	1320.00	0.950	3.80	60.00	228.00
Holophane "EH2"	2		275.00	550.00	0.800	1.60	60.00	96.00
Holophane "E2"	1		210.00	210.00	0.650	0.65	60.00	39.00
LED Strip fixture	2		78.00	156.00	0.650	1.30	60.00	78.00
Motion sensor switch	1		42.00	42.00	0.400	0.40	60.00	24.00
1/2" chase nipples, locknuts, bushings	6		3.99	23.94	0.100	0.60	60.00	36.00
12/3 SOW	15		1.19	17.85	0.100	1.50	60.00	90.00
1/2" SOW strain releif connectors	4		2.99	11.96	0.125	0.50	60.00	30.00
#12 THHN	90		0.13	11.70	0.005	0.45	60.00	27.00
Mounting harware-lot	1		12.00	12.00	0.000	0.00	60.00	0.00
	0		0.00	0.00	0.000	0.00	60.00	0.00
	0		0.00	0.00	0.000	0.00	60.00	0.00
	0		0.00	0.00	0.000	0.00	60.00	0.00
	0		0.00	0.00	0.000	0.00	60.00	0.00
	0		0.00	0.00	0.000	0.00	60.00	0.00
	0		0.00	0.00	0.000	0.00	60.00	0.00
	0		0.00	0.00	0.000	0.00	60.00	0.00
	0		0.00	0.00	0.100	0.00	60.00	0.00
	0		0.00	0.10	0.000	0.00	60.00	0.00
	0		0.00	0.00	0.000	0.00	60.00	0.00
			0.00	0.00	0.000	0.00	60.00	0.00
			0.00	0.00	0.000	0.00	60.00	0.00
	0		0.00	0.00	0.000	0.00	60.00	0.00
			0.00	0.00	0.000	0.00	60.00	0.00
			0.00	0.00	0.000	0.00	60.00	0.00
			0.00	0.00	0.000	0.00	60.00	0.00
Total Material				2355.55		10.80		648.00
Tax On Material				212.00				
Total Material & Tax				2567.55				
Total Labor				648.00				
Total Material & Labor				3215.55				
Quote Freight / Seimens Quote				0.00				
quote				0.00				
quote				0.00				
quote				0.00				
Tax on quoted items				0.00				
Total quotes & Tax				0.00				
Sub-contractor				0.00				
Overhead				160.78				
Profit				337.63				
Bond cost				37.14				
Total Change Order Cost				3,751.10				



T. A. Loving Company
400 Patetown Road / P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order No.: 019
Rev000

PROPOSED CHANGE ORDER

Project Name: Northeast Brunswick Regional WWTP Facility Expansion
Location: Navassa, NC
Owner: Brunswick County
Engineer: McKim&Creed

TAL Proj. No. 3845
Date 2/4/2021
Drawing No.
Spec. Section

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: _____ Other_Change Request _____

PCO TITLE and Description: This Change Order is for the change in design of the Tertiary Filter drain piping due to the conflict of 6" piping not being able to cross over 24" piping as shown on the contract drawings.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$3,368.26
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** <input type="text" value="0"/> DAYS @ <input type="text" value="\$0.00"/> PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$3,368.26
6. OVERHEAD & PROFIT ON DIRECT WORK..... <input type="text" value="15%"/>	\$505.24
7. TOTAL DIRECT WORK	\$3,873.50

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
8. SUB-TOTAL SUBCONTRACTOR WORK:			\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... <input type="text" value="5%"/>			\$0.00
10. TOTAL SUBCONTRACTOR WORK.....			\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....			\$3,873.50
12. BOND & INSURANCE: 0.00% of subtotal # 11			\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....			\$3,873.50

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
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Proposed Change
Order
No.: 019
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$3,155.28
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$3,155.28
E. Sales Tax	Exempt	6.75%	of D	\$212.98
F. TOTAL MATERIAL				\$3,368.26
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
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Proposed Change
 Order
 No.: 019
 REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	6" MJ 90	3	EA	\$113.40	\$340.20						0.00
	6" MJ 45	3	EA	\$92.40	\$277.20						
	6" Megalug with Accessories	12	EA	\$61.24	\$734.88						
	6" x 4' FLG x PE	4	EA	\$187.00	\$748.00		0.00				
	6" CL DI Fastite Pipe	40	FT	\$17.95	\$718.00		0.00				
	6" Uniflanges	4	EA	\$55.34	\$221.36		0.00				
	6" Uniflange Accessories	4	EA	\$28.91	\$115.64				0.00		
					3,155.28		0.00		0.00		0.00



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Proposed Change
Order
No.: 019
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 0 days.

TOTAL DAYS 0



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
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Proposed Change
Order
No.: 019
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY			\$	-
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance							\$	-
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00



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Proposed Change
Order No.: 020
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	3/11/2021
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: _____ Other_Change Request _____

PCO TITLE and Description: This Change Order is for extending the 24" influent lines of the Tertiary Filters 8' to spand across the 24" drain line from MH #4 to EQ PS. We need to expand these lines because there is a conflict with the elevations of the 24" Tertiary Filter influent header and the 24" drain line to the EQ PS. We are requesting two days for this change.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$10,093.91
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** <input type="text" value="0"/> DAYS @ <input type="text" value="\$0.00"/> PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$10,093.91
6. OVERHEAD & PROFIT ON DIRECT WORK..... <input type="text" value="15%"/>	\$1,514.09
7. TOTAL DIRECT WORK	\$11,608.00

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$0.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... <input type="text" value="5%"/>	\$0.00
10. TOTAL SUBCONTRACTOR WORK.....	\$0.00
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$11,608.00
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$11,608.00

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Date: _____

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 019
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$9,455.65
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$9,455.65
E. Sales Tax	Exempt	6.75%	of D	\$638.26
F. TOTAL MATERIAL				\$10,093.91
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
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Proposed Change
 Order
 No.: 019
 REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	24" CL 200 Pipe	40	FT	\$112.00	\$4,480.00						0.00
	24" MJ Sleeves	3	EA	\$676.91	\$2,030.73						
	24" Megalugs	6	EA	\$427.82	\$2,566.92						
	Stone	12.6	Tons	\$30.00	\$378.00		0.00				
					\$0.00		0.00				
					\$0.00		0.00				
					\$0.00				0.00		
					9,455.65		0.00		0.00		0.00



T. A. Loving Company
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Proposed Change
Order
No.: 020
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 2 days.

TOTAL DAYS 0



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 020
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00



T. A. Loving Company
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Proposed Change
Order No.: 021
Rev000

PROPOSED CHANGE ORDER

Project Name:	Northeast Brunswick Regional WWTP Facility Expansion	TAL Proj. No.	3845
Location:	Navassa, NC	Date	3/12/2021
Owner:	Brunswick County	Drawing No.	
Engineer:	McKim&Creed	Spec. Section	

Reference: RFP No.: _____ Work Directive No.: _____ Field Order No.: _____ Other_Change Request _____

PCO TITLE and Description: This Change Order is for spacing out the blowers at the EQ tank. On the drawings they were positioned too close together which caused the access doors to the blowers to not be able to open fully. We spaced the blowers out so that there is 3' between them so that the doors can open. We are requesting 1 day for this change.

1. LABOR (See attached itemized breakdown)	\$0.00
2. MATERIALS (See attached itemized breakdown)	\$58.25
3. EQUIPMENT/OTHER (See attached itemized breakdown)	\$0.00
4. TIME EXTENSION FIELD COSTS** <input type="text" value="0"/> DAYS @ <input type="text" value="\$0.00"/> PER DAY	\$0.00
5. SUB-TOTAL DIRECT WORK	\$58.25
6. OVERHEAD & PROFIT ON DIRECT WORK..... <input type="text" value="15%"/>	\$8.74
7. TOTAL DIRECT WORK	\$66.99

SUBCONTRACTORS

NAME	DESCRIPTION	INVOICE/PROPOSAL DATE	
TNT State Certified Welders	Cut and Refab header pipe to Blowers to space out blowers.	3/11/2021	
			\$910.00

8. SUB-TOTAL SUBCONTRACTOR WORK:	\$910.00
9. OVERHEAD & PROFIT ON SUBCONTRACTOR WORK..... <input type="text" value="5%"/>	\$45.50
10. TOTAL SUBCONTRACTOR WORK.....	\$955.50
11. SUB-TOTAL DIRECT AND SUBCONTRACTOR WORK.....	\$1,022.49
12. BOND & INSURANCE: 0.00% of subtotal # 11	\$0.00
13. TOTAL CHANGE PROPOSAL REQUEST.....	\$1,022.49

Reviewed By: _____ Date: _____

** Schedule impact indeterminate at this time. The Contractor reserves its rights to a time extension and extended field costs due to the cumulative effect of changes.

Accepted By:

T. A. Loving Company

Brunswick County Public Utilities

Date: _____

McKim&Creed

Date: _____



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
Goldsboro NC 27533-0919
919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 021
Rev000

WORKSHEET SUMMARY

	Quantity	Rate	Unit	
MATERIAL COST				
A. Material (From take off worksheet)				\$54.57
B. Miscellaneous/Waste material			of A	\$0.00
C. Freight				\$0.00
D. SUBTOTAL				\$54.57
E. Sales Tax	Exempt	6.75%	of D	\$3.68
F. TOTAL MATERIAL				\$58.25
LABOR COST				
G. Labor (From takeoff worksheet)				\$0.00
H. Small Tools		1.50%	of Labor	\$0.00
I. Clean-up		1.00%	of Labor	\$0.00
J. Safety		1.00%	of Labor	\$0.00
K. Safety Training		0.75%	of Labor	\$0.00
L. Reproduction Costs				\$0.00
M. As-Built Drawings	0	\$73.00	HR	\$0.00
N. Testing		0.00%	of Labor	\$0.00
O. Warranty Work		0.00%	of Labor	\$0.00
P. Punch List		0.00%	of Labor	\$0.00
Q. TOTAL LABOR				\$0.00
EQUIPMENT/OTHER				
R. Equipment (From take off worksheet)				\$0.00
S. Equipment Fuel Surcharge		2.50%	of Equipment	\$0.00
T. Equipment Repairs		2.00%	of Equipment	\$0.00
U. Equipment Yard Work		2.00%	of Equipment	\$0.00
V. Assigned Equipment		0%	of Equipment	\$0.00
W. Other (From take off worksheet)				\$0.00
X. TOTAL EQUIPMENT/OTHER				\$0.00



T. A. Loving Company
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Proposed Change
Order
No.: 021
REV00

TAKE OFF WORKSHEET

ITEM	DESCRIPTION	QTY.	UNIT	MATERIAL		LABOR		EQUIPMENT		OTHER	
				UNIT COST	TOTAL COST	LABOR RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT	TOTAL COST
	6" Stainless Steel Pipe 33" long	1	LS	\$54.57	\$54.57						0.00
					\$0.00						
					\$0.00						
					\$0.00		0.00				
					\$0.00		0.00				
					\$0.00		0.00				
					\$0.00				0.00		
					54.57		0.00		0.00		0.00



T. A. Loving Company
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Proposed Change
Order
No.: 021
Rev000

TIME ANALYSIS

SCHEDULE IMPACT NARRATIVE:

This will effect the schedule by 1 days.

TOTAL DAYS 0



T. A. Loving Company
400 Patetown Road P.O. Drawer 919
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919-734-8400 (phone) 919-736-2148 (fax)

Proposed Change
Order
No.: 021
Rev00

TIME EXTENSION FIELD COSTS

				Qty	Units	Unit Cost	Cost/Wk	Cost/Mo	Cost Per Day
	Site Project Manager			#####	HR	\$ 132.00			1056
	Superintendent			#####	HR	\$ 232.00			1856
	Project Engineer			#####	HR	\$ 90.00			720
	Surveyor				HR				
	Foreman			#####	HR	\$ 178.00			1424
	Subsistence/Per Diem(5men)				DY				\$ -
	Hotel/Apartment Rent (1 Room)				DY				
	Hotel/Apartment Utilities								
	Apartment Furnishings								
	Temp Office Trailer								
	Temp Engineers Trailer								
	Temp Storage Trailer								
	Temp Utilities								
	Portable Toilets								
	Cellular Phones								
	Office Supplies								
	Office Equipment misc								
	Fax Machine								
	Copy Machine								
	Computer & Internet								
	Printer								
	Safety								
	Employee Drug Testing								
	Daily Cleanup								
	Dumpster								
	Drinking Water								
	Ice & Cups								
	Pick-Up Trucks								
	Gas & Oil								
	Equipment Repair								
	Warranty Extensions								
	Builders Risk Insurance								\$ -
TOTAL SITE GENERAL CONDITIONS COST PER DAY									\$0.00

From: Donny Williams <donny.williams@edwardsinc.com>
Sent: Thursday, March 11, 2021 4:06 PM
To: Chase Hartley
Subject: RE: Stainless Steel Pipe

Hey Chase we cut you a piece of 6"sch 10 SS pipe 33" long the cost is \$54.57 and that's is with TAX it's here waiting for pickup. Thank You

From: Chase Hartley <chartley@taloving.com>
Sent: Thursday, March 11, 2021 9:18 AM
To: Donny Williams <donny.williams@edwardsinc.com>
Subject: Stainless Steel Pipe

Donny,

Please price a 304L Sch10 Stainless steel piece of pipe 20-3/8" long. Get this to me as quickly as possible.

Thanks,
Chase Hartley
Project Engineer
Utility Division
C:919-440-6890



T. A. LOVING COMPANY

400 PATETOWN ROAD | GOLDSBORO, NORTH CAROLINA 27530
919.734.8400 (T) | 919.736.2148 (F)

NCDOT

9144 Clinton Rd.
Autryville, N.C. 28318

STATE
CERTIFIED
WELDERS



WELDER ID#
4948RDM

FIELD OPERATOR
TIM JONES
910-987-6468

1726

Cell# _____ Email _____

Notes: ADD $20\frac{3}{8}"$ to HEADER $\leq_{\text{AIR}} 301$

Authorized By

Received By

Date