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WATER & RESOURCE RECOVERY FACILITY

MEMORANDUM

To: Gregg Mandsager, City Administrator

CC: Nancy Lueck, Finance Director
Cinda Hilger, Secretary

From: Jon Koch, WRRF Director

Date: September 26, 2019

Re: HSW Project Change Order #2

INTRODUCTION: Leander Construction, Inc. (LCI) has submitted a change order request for extra work proposed for the High Strength Waste (HSW) project. The change order is for four items (Leander Change # 8008-8011) totaling \$35,64286.

BACKGROUND: Several items have been added together for Change Order #2 to the HSW project. These items have been compiled by City Staff and found to be appropriate to complete the project. See CO #2 attached for a detailed list for the extra work.

Change 8008 Re-Direct Sanitary Sewer Line: The designed line from the vac pad was found to have a very shallow slope that was inappropriate for the viscous nature of the material being drained. This would cause on-going clogging issues. Moving the line to another man-hole will give the line proper draining slope.

Change 8009 Recycle Center Dedicated Water Line Upgrade: The designed water lines for the T 42 would require the installation of a valve 35 feet in the ceiling to avoid freezing the existing line leading back into the transfer station. This would require twice annually opening and closing which would require twice annual rental of a scissor lift, staff time and safety issues. An actuated valve operated from the ground cost and installation was over \$15,000.00. This line will now not interfere with Transfer Station water operations.

Change 8010 ADA Parking Spot Paint Striping: There are currently no ADA compliant parking spaces at the Transfer Station.

Change 8011 Extra Paving: There are currently no dedicated parking spaces for customers at the

**"I remember Muscatine for its sunsets. I have never seen any
on either side of the ocean that equaled them" — Mark Twain**

Transfer Station. This extra paving would allow for parking so that customers can safely park their vehicles and enter the office. Currently vehicles park where the ADA space will be placed so new dedicated places for them to park is necessary.

RECOMMENDATION/RATIONALE: Staff recommends approval of Change Order #2 to the HSW project in the amount of \$35,642.86.

BACKGROUND:

1. HSW project COR #2
2. Extras List



Change Order

Non-Substantial:

Part

Non-

Part

No. 002

Substantial:

☐☐October 03, 2019
Concurrence DateContract
Accounting ID No.: NA

County Muscatine

Project No: SCI Project Number: 25408.05.00

Kind of Work: High Strength Waste Receiving Station

Date Prepared: September 24, 2019

Contractor: Leander Construction, Inc.

You are hereby authorized to make the following changes to the contract documents.

A - Description of change to be made or extra work to be done:

This Change Order is written to cover the costs to be incurred by the Contractor (Leander Construction, Inc.) associated with the following:

- 8008: Re-Direct Existing Vac Pad Sanitary Sewer Line.
- 8009: Install Dedicated Water Line in Recycle Center Building at the Transfer Station Site.
- 8010: ADA Parking Spot Paint Striping, Symbols and Signage.
- 8011: Extra Concrete Paving at Recycle Center Building at the Transfer Station.

B - Reason for change or extra work:

These items were discovered after work was begun and were conditions NOT covered in the Contract Documents:

- 8008: The existing sanitary sewer line was discovered to actually be running under the new Vac Pad. Without re-location, future maintenance may have been impossible.
- 8009: Due to potential complications with freezing the existing water line back into the Transfer Station dump area; a new insulated and heat traced line in the former Recycle Building was needed.
- 8010: In the Transfer Station office area pavement and parking, as a Public Access area, compliance with ADA compliant parking was necessary. This was NOT addressed or shown in the current Contract documents.
- 8011: As the traffic patterns were re-reviewed by City staff, it was determined that the added paved concrete area would compliant the traffic patterns.

(Continued on reverse side)

Approved [Signature]
Construction Project Manager

Date

[Signature]
Director, Water & Resource Recovery Facility9/26/19
Date

Receipt is acknowledged of this change or extra work and terms of settlement are hereby agreed to.

Approved contingent upon funds being available under the existing project agreement or upon additional Federal-aid funds being made available by a modified project agreement.

LEANDER CONSTRUCTION, INC.
ContractorBy [Signature]9-25-19
Date

Date

Approved

City Administrator

Date

DISTRIBUTION: Project Engineer - Forward original to District.

District - Nonsubstantial - Forward original and one copy to the Office of Construction and two copies back to the Project Engineer.
- Substantial - Forward original and two copies to the Office of Construction.

C-1 – Settlement for cost of work to be made as follows:

Change Order No. _____

The costs the contractor anticipates to incur for the execution of this Change Order are as follows:

- for 8008: \$ 1,288.31 per the Contractor's COR #12, dated 09-12-2019.
- for 8009: \$ 12,291.36 per the Contractor's COR #13, dated 09-12-2019.
- for 8010: \$ 370.30 per the Contractor's COR #14, dated 09-12-2019.
- for 8011: \$ 21,692.89 per the Contractor's COR #15, dated 09-17-2019.

C-2 – Justification for cost(s) These costs were based on the Contractor's and their Subcontractor's Standard Rates for their equipment and labor shown in the COR quotes attached, with the Contractor and their Subcontractors doing the Work. No Project change in the overall Project schedule due to these changes.

D – ITEMS INCLUDED IN CONTRACT

Change No.	Line Item Number	Unit Price .xxx	If Credit Add "CR"	Amount .xx
			Quantity .xxx	
7				
7				
7				
7				
7				
7				
7				
TOTAL				

E – ITEMS NOT INCLUDED IN CONTRACT

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	If Credit, Add "CR"	Amount .xx
					Quantity .xxx	
8008	Re-Redirecting Sanitary Sewer Line.	COR #12	01	\$ 1,288.31	1	\$ 1,288.31
8009	Recycle Center Dedicated Water Line Upgrade.	COR #13	01	\$12,291.36	1	\$12,291.36
8010	ADA Parking Spot Paint Striping, Symbols and Signage.	COR #14	01	\$ 370.30	1	\$ 370.30
8011	Extra Paving at the Transfer Station Recycle Building.	COR #15	01	\$21,692.89	1	\$21,692.89
8						
8						
8						
TOTAL						\$35,642.86



**Project: High Strength Waste
Receiving Station**

COMPUTATIONS - CHANGE ORDER REQUESTS (COR)

Project: High Strength Waste
Receiving Station
Calc's for COR's
Preliminary Costs

Sheet No. 1 of 1
Job No. _____
By WJH. **Date** 09-24-19.
Chck'd _____. **Date** _____.

COR No.	Date Sent	Description	Status	Cost	City Change Order	Date
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#1 through COR #10 (previously approved in the City of Muscatine Change Order #1)

Total To-Date CO #1: \$ 21,219.79

COMPUTATIONS - REQUESTS FOR INFORMATION

Project: High Strength Waste
Receiving Station
Calc's for CORs
Preliminary Costs

Sheet No. 2 of 2
Job No. _____
By WJH. **Date** 09-24-19.
Chck'd _____. **Date** _____.

COR No.	Date Sent	Description	Status	Cost	City Change Order	Date
12	09-12-2019	Re-Direct Exist. Sanitary Sewer Line	Appr.	\$ 1,288.31	8008	09-24-2019
13	09-12-2019	Install Water Line at Recycle Building	Appr.	\$ 12,291.36	8009	09-24-2019
14	09-12-2019	ADA Striping and Signage	Appr.	\$ 370.30	8010	09-24-2019
15	09-17-2019	Extra Concrete Paving	Appr.	\$ 21,692.89	8011	09-24-2019

Total To-Date CO #2: \$ 35,642.86

Item	Justification	Cost est	Status	Apprvd
T42 Turbo Separator	Depackaging machine	\$336,945	-Verbal order-June 2019 -Approved drawings, Lana will check them soon and move it to the shop 8-5-19	7/3/19
Koala Consulting	Project management, much cheaper than Stanley to perform minimal tasks i.e. paper work, pay submittals, RFI, change orders outside Stanley contract	\$18,500	Conducted pre-con On-going work	
Terra Con	Concrete testing, outside contract	\$4,500		
Lighting	Lighting in the recycling center was not included in the contract, very poor lighting, damaged lights, needed for product placement in machine	\$107,000 entire facility (Transfer, Recycle, offices)	7/30/19 met with auditor, cost for entire facility by them (PQL). \$65K for equipment, will be seeking others for install cost compare. \$215 per light, \$20K rebate, save \$24K/yr.	
Ventilation/heating	The recycling center ventilation is in need of an overhaul, upgrade. It has not been evaluated or worked on for years. Probably functional but needs work	\$20,000 \$40-\$50K	7/30/19 seeking bid for radiant heat from contractor. Est \$40K-\$50K. Save \$5K-\$7K/mo during the winter	
End loader	To move material from the tip floor into the machine, looking for used to purchase per Finance	\$70,000 est for used	Updated 8/20 Updated 9/19, size needed for height of hopper is increasing cost	
Fork lift	Needed to move product out of trucks, with rotating forks to dump into machine. Looking to purchase used per Finance	\$20,000 est for used	Asking Raymond for donation	
Barrel loader attachmnt	For loading barrels with fork lift. Product from Heinz coming in barrels	\$1500	Seeking quotes, estimate from web search	
Rotating fork assembly for fork lift	To load material into the hopper from pallets and material in bins	\$8,000 est used	Seeking quotes, estimate from web search	
Security cameras	Needed for vendor proof of destruction	\$34,271	Updated 7/18/19 Xfer	

	stolen for resale or personal use. Also monitoring off-loading at the WRRF, vac pad, septage camera replacement, compatible with current system. Current server is non-functioning, needed replacement 2 years ago. Vendor specific to tie to current system.	\$46,111	Updated 7/31/19 for plant and Xfer To Council 8/15/19 Approved	
Door locks	Door locks in recycling center in poor condition, needed for security during and after project	\$1,100	Installed, completed	
Aggregate	Base for the truck off-loading site at the WRRF. Earth work to be performed by City. May pave in the future but this saves cost of contractor performing work	\$20,000	Rough design by City engineer	
Pole building/FOG receiving	A building and pad are needed to house the liquid/FOG receiving bar screen for winter freeze protection. Two trucks will connect. This was removed in the project 3.0a to reduce cost to current contract 3.0b.	\$50,000 Seeking to reduce to \$25-30K	7/30/19 seeking bids for trough configuration 8/30/19 Leander bid \$81K 9/19/19 received alt bid \$15K for concrete. Seeking building bid, anticipate \$10K w/ install	
Hot water wash down	Hot water is needed to clean the greasy areas around the LWR and flush the line daily to avoid costly line jetting	\$11,000	8/16/19 Hotsy quote, per unit. Immediate need at LWR, future at Xfer. Seeking alt quote	
Flow meters and piping	Meters to measure off-loading trucks for accurate billing.	\$7,000	Seeking quotes	
Bollards	Bollards to protect light poles, buildings, etc from new truck traffic at WRRF, Xfer	\$1,500	Xfer done with CO #1, LWR area to be done when aggregate installed	
Safety Kleen	Remove hydraulic fluid from old baler pit to fill and repair at the Xfer	\$1,000	Estimate 7/31/19	
Power wash building	Remove dirt and debris from construction before machine is installed	\$4700	Completed 9/13/19	

Change Order #1		\$21,219.79	Approved 09/05/19	09/05/19
Change Order #2		\$35,642.86	To Council 10/03/19	
Total		\$785,717 est	Updated 9/26/19	