

MEMORANDUM

TO: Mayor and City Council

FROM: Faye Stewart, Public Works & Development Director

SUBJECT: APPROVAL OF CHANGE ORDER FOR THE SECONDARY CLARIFIER 1 REHABILITATION PROJECT

DATE: August 9, 2023

Background

On May 8, 2023 the City Council awarded the Secondary Clarifier 1 Rehabilitation Project to R & G Excavating. West Yost designed and prepared the rehabilitation project based off as built plans and field inspections of the clarifier. During the demolition phase of the project R & G discovered the concrete floor thickness varied from 3 inches to 5 inches and the rebar steel designed to strengthen the floor was in many locations laying in the gravel base under the concrete. The as built plans stated the floor concrete thickness to be a minimum of 5 inches thick. West Yost's rehabilitation plan called to use the original clarifier floor as built. After discovering the variations in thickness and the reinforcing steel not in the concrete West Yost requested the existing concrete floor be removed and a new 8 inch thick concrete floor be built. The cost to remove and replace the Clarifier floor is \$268,154.80

The change order also includes additional quantities of materials to refurbish the existing clarifier tank walls. Once the clarifier tank walls were sand blasted it was discovered the concrete walls were worn more than the visual inspection had determined. The change order includes increases in materials and labor to restore the clarifier tank walls to designed specifications. The total cost for this work is \$138,000.

Recommendation

Staff recommends City Council approve change order 1 for the secondary clarifier 1 rehabilitation project for \$406,154.80.

Cost

The full faith and credit borrowing through Banner Bank and D.A. Davidson will fund the change order. The Wastewater reserve will service the debt. No increases in fees are needed for this additional work.



Richard Meyers, City Manager



Faye Stewart, Public Works & Development Director

**EXCAVATING, INC.**39300 Montgomery Drive
Scio, OR 97374
(503) 394-2190
Fax (866) 610-8465

CHANGE ORDER PROPOSAL

Job Name	Secondary Clarifier 1 Rehabilitation
Job Location	Cottage Grove, Oregon
To:	City of Cottage Grove
Attn:	Shauna Neigh
Tracking No:	001
Date:	July 25, 2023
Description of Change Request:	Remove and Replace Clarifier Slab

<u>Materials</u>	Unit	Cost	Total
8" thick Concrete Slab	150	\$ 219.35	\$ 32,902.50
Rebar & Slip Dowels	1	\$ 11,876.00	\$ 11,876.00
Concrete Disposal Fees, yard	21	\$ 30.00	\$ 630.00
Rebar Dump	1	\$ 500.00	\$ 500.00
Epoxy for Rebar, 11.1 oz	27	\$ 63.50	\$ 1,714.50
WaterStop, Rolls	4	\$ 358.45	\$ 1,433.80
Epoxy Joint Filler, 5 gal kits	27	\$ 264.30	\$ 7,136.10
Epoxy Freight	1	\$ 230.00	\$ 230.00
Quarry Rock, tons	160	\$ 23.00	\$ 3,680.00
Filter Fabric, Roll	2	\$ 580.00	\$ 1,160.00
		Material Subtotal	\$ 61,262.90
		Material Mark-Up 15%	\$ 9,189.44
		Material Total	\$ 70,452.34

<u>Labor</u>	Unit	Cost	Total
Saw Cut, 252 LF	1	\$ 1,100.00	\$ 1,100.00
Superintendent	40	\$ 175.00	\$ 7,000.00
IW, Rebar Tie	160	\$ 141.42	\$ 22,627.20
Cement Mason	84	\$ 122.28	\$ 10,271.52
CM, Waterstop Install	100	\$ 122.28	\$ 12,228.00
Carpenter	80	\$ 127.37	\$ 10,189.60
Labor	80	\$ 101.00	\$ 8,080.00
Labor, Drill & Epoxy Rebar	120	\$ 103.81	\$ 12,457.20
Labor, Grading	80	\$ 101.00	\$ 8,080.00
Labor, Epoxy Joint Filler	60	\$ 103.81	\$ 6,228.60
JD 35 Operator	50	\$ 120.23	\$ 6,011.50
Skid Steer Operator	70	\$ 120.23	\$ 8,416.10
210 Excavator Operator	80	\$ 130.10	\$ 10,408.00

Labor Continued

Dump Truck Driver	80	\$	91.20	\$	7,296.00
Delivery Fee for Fabric	4	\$	50.00	\$	200.00
				Labor Subtotal	\$ 130,593.72
				Labor Mark-Up 15%	\$ 19,589.06
				Labor Total	\$ 150,182.78

Equipment

JD 35 with Hammer	20	\$	60.04	\$	1,200.80
JD 35 Load up	40	\$	31.63	\$	1,265.20
Skid Steer	50	\$	62.04	\$	3,102.00
Skid Steer, Grading	30	\$	62.04	\$	1,861.20
210 Excavator	80	\$	162.50	\$	13,000.00
Dump Truck	80	\$	96.43	\$	7,714.40
Dump Truck, Haul Rebar	10	\$	96.43	\$	964.30
				Equipment Subtotal	\$ 29,107.90
				Equipment Mark-Up 15%	\$ 4,366.19
				Equipment Total	\$ 33,474.09

Subcontractor

Boom Pump Mob	2	\$	3,590.00	\$	7,180.00
Special Inspections	1	\$	3,182.00	\$	3,182.00
				Subcontractor Subtotal	\$ 10,362.00
				Subcontractor Mark-Up 15%	\$ 1,554.30
				Subcontractor Total	\$ 11,916.30

Credit for Work not Performed under Line Item 13 & 14

Concrete	-4	\$	170.00	\$	(680.00)
Rock	-1	\$	500.00	\$	(500.00)
Cement Mason	-8	\$	122.28	\$	(978.24)
Iron Worker	-8	\$	141.42	\$	(1,131.36)
Epoxy	-1	\$	1,300.00	\$	(1,300.00)
				Subcontractor Subtotal	\$ (4,589.60)

Final Change Order Cost

Change Order Subtotal	\$ 261,435.90
Bond & Insurance	\$ 6,718.90
Change Order Final Cost	\$ 268,154.80

TIME EXTENSION REQUEST:

The above prices and specifications of this change order are satisfactory and accepted.
All work to be performed under existing terms and conditions of current contract language unless otherwise stipulated.

Glinda Ireland, Operations Manager

Owner's Authorized Representative

Change Order #1 for Secondary Clarifier #1 Rehabilitation Project

August 7, 2023

Secondary Clarifier #1 Floor Replacement Change Order and below is the estimate of additional work needed based on the actual quantities vs the quantities listed on the Bid Form. The total is **\$406,154.80**.

Removal and replacement of the Secondary Clarifier #1 floor- **\$268,154.80**.

Additional change order items:

Line Item 8 (Sandblasting of the Walls & troughs) - 870 SF x \$12.75/SF = **\$11,092.25**

Line Item 9 (Epoxy Injection) - 400 LF x \$190/LF = **\$76,000.00**

Line Item 10 (Grout Removal) - 2015 SF x \$8.25/SF = **\$16,623.75**

Line Item 11 (Install Grout) - 2015 SF x \$9.50/SF = **\$19,142.50**

Line Item 21 (Joint Repairs) - 2 EA * \$1,109.00 = **\$2,218**

Project Management - 5 Percent of \$56,676.50 = **\$6,567**

Contingency - 10 Percent of = **\$5,951**

Total = \$138,897.50, Use **\$138,000**











