

J.F. Shea Construction, Inc.

General Contractors
License No. 769989

July 03, 2024

Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240

Attention: Lucas Rathe – Resident Engineer
Reginal Water Reclamation Facility
Project No. 17-002-S

Subject: Potential Change Order No. 081 – Electrical Design Omissions and Changes/
Subcontractor Time Related Overhead

Dear Mr. Rathe,

J.F. Shea Construction, Inc. (JFS) has been in discussion with Mission Springs Water District (MSWD) regarding the issues that have impacted our ability to complete the project per the original schedule. There are several directives for extra work, including significant unforeseen events, that have contributed to the overall project delays. This summary is intended to provide facts related to the issues and a guideline to acknowledging merit for these impacts.

The original electrical scope (as-bid design) has been inundated with changes and extra work primarily due to design omissions and insufficient pre-bid vendor coordination. Please reference Exhibit 1 – 17002S-MSWD-RWRF Baker Electric Change Order Log. Using the values provided in Exhibit 1, the following figures are being presented to show the significance of impacts related to the Electrical scope:

Original Electrical Subcontract Value	\$3,842,000	
Original Estimated Electrical Direct Manhours	16,793 MHRS	
Planned Contractual Workdays	412 WD	
Additional Electrical Subcontract Value	\$1,118,518	
Additional Electrical Direct Manhours	4,120 MHRS	
Additional Contractual Workdays	218 WD	
Updated Electrical Subcontract Value	\$4,960,518	[29.1% Increase]
Updated Electrical Direct Manhours	20,913 MHRS	[24.5% Increase]
Planned Contractual Workdays	630 WD	[52.9% Increase]

As detailed above, the Electrical scope growth due to omissions and changes is significant and cannot be discredited as extremely impactful to the originally planned Subcontractor work, schedule, staffing and overhead. Based on these impacts, the Electrical Subcontractor has encountered Time Related Overhead cost not included in the approved pricing for the agreed changes in scope. In accordance with General Conditions Section 2.13, J.F. Shea Construction, Inc. is hereby providing a Lump Sum Cost Proposal in the amount of **\$206,748.00** for the Electrical Subcontractor Time Related Overhead (TRO) Cost Impacts. Please reference Exhibit 2 – 17002S-MSWD-RWRF Baker Electric Time Related Overhead Cost Summary and related backup documentation.

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Per General Conditions Section 2.13, J.F. Shea Construction, Inc. is requesting issuance of a Change Order in order to formalize this change request. Please contact me at (909) 824-4293 if you have any questions or require any additional information.

Sincerely,



Rafael Torres
Project Manager
J.F. Shea Construction, Inc.

Attachments:

1. Exhibit 1 – 17002S-MSWD-RWRF Baker Electric Change Order Log
2. Exhibit 2 – 17002S-MSWD-RWRF Baker Electric Time Related Overhead Cost Summary

EXHIBIT 1

17002S-MSWD-RWRF

17002S-MSWD-RWRF Baker Electric Change Order Log

PCO#	Date	Description	Amount	JFS PCO	Status	Notes	Days	MHRS
1	7/5/2022	SBR #1 added scope	\$ 103,845.16	010	Executed	CO-01	0	427
2R2	7/6/2022	Site Security	\$ 416,106.33	012	Executed	CO-05	90	2306
2R2a	7/12/2023	Site Security Materials Procurement	\$ 211,369.32	012	Executed	CO-04	40	0
3	8/23/2022	Diaphragm Seals	\$ 4,051.43	015	Executed	CO-02	1	2
4R3	8/18/2022	AST Blowers	\$ 42,531.05	016	Executed	CO-02	9	203
6	9/8/2022	Decanter Wiring	\$ 6,331.51	017	Executed	CO-02	2	30
7	9/8/2022	BV-301, 302, 303, 304	\$ 34,641.46	019	Executed	CO-02	6	167
9	11/30/2022	Ethernet Boosters	\$ 2,049.30	028	Executed	CO-03	1	5
11R1	12/22/2022	SCE Changes	\$ 82,642.55	022	Executed	CO-02	14	235
12	1/5/2023	BFP Grounding	\$ 6,775.54	029	Executed	CO-03	2	20
13	1/18/2023	pH Monitoring	\$ 59,531.08	030	Executed	CO-03	12	203
14R1	1/24/2023	Antenna Mast & AirFiber Radio	\$ 11,101.93	027	Executed	CO-03	0	9
15	2/24/2023	Sludge Pump VFDs	\$ 7,970.97	034	Executed	CO-03	1	12
16	2/27/2023	Auto Sampler Power	\$ 9,335.57	037	Executed	CO-03	2	30
18	7/6/2023	Entrance Canopy Lighting Changes	\$ 5,178.59	050	Executed	CO-05	1	0
19	10/3/2023	Exhaust Fan EF-4 Wiring Changes	\$ 7,238.97	052	Executed	CO-06	3	27
20	10/12/2023	Added Exit Sign - RCFD Changes	\$ 2,673.58	057	Executed	CO-06	0	13
21	11/9/2023	Decanter Reversing Starters	\$ 29,859.83	061	Executed	CO-06	10	130
22	11/16/2023	ACCU-01 Power	\$ 4,858.19	060	Executed	CO-06	1	18
23	12/14/2023	SBR Instrumentation Power	\$ 8,268.63	062	Executed	CO-06	2	24
24	1/11/2024	480V Blower Power Feed	\$ 8,333.83	064	Executed	CO-06	3	26
25R1	2/22/2024	BFP Motors Power Feeds	\$ 10,728.37	065	Approved	Pending	3	34
26	3/13/2024	Roll Up Doors Conduit	\$ 4,931.10	TBD	Approved	Pending	3	71
27	3/13/2024	Bar Screen Interconnection	\$ 4,461.84	068	Approved	Pending	1	18
28	3/13/2024	Ops Bldg Address Sign Lighting	\$ 2,049.21	069	Approved	Pending	1	6
29	3/21/2024	Distribution Conveyor Proximity Switches	\$ 12,153.56	071	Approved	Pending	4	39
30	4/12/2024	BFP CP and Conveyor Interconnection	\$ 3,777.08	070	Approved	Pending	1	16
32	4/12/2024	Sludge Conveyor Panel Power	\$ 3,963.99	067	Approved	Pending	2	21
33	5/20/2024	SBR Light Photocells	\$ 1,437.17	074	Approved	Pending	1	10
36	6/20/2024	Triplex Float Controllers	\$ 7,954.99	077	Pending	Pending	1	2
38	6/26/2024	Water Heater Power	\$ 2,365.95	075	Pending	Pending	1	16
Totals			\$ 1,118,518.08				218	4,120

EXHIBIT 2

17002S-MSWD-RWRF

JF Shea Construction
Regional Water Reclamation Facility
MSWD Project No. 17-002-S

PCO/ CO: PCO-080

DESCRIPTION: Electrical Design Omissions and Changes - Subcontractor Time Related Overhead

DATE

Issued: 04/30/24
Priced: 07/01/24

Item	Description	UM	Qty	MH/unit	Total MH	Rate	Total Labor Cost	Material Taxable	Other Non-Tax	Equipment	Sub	Total Cost
1												
2	Subcontractor TRO Cost	LS	1			\$ 186,637.78	\$ -	\$ -	\$ -	\$ -	\$ 186,637.78	\$ 186,637.78
3						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
18						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
20						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SUBTOTAL					0		\$ -	\$ -	\$ -	\$ -	\$ 186,637.78	\$ 186,637.78
Sales Tax 7.75%								\$ -				\$ -
SUBTOTAL							\$ -	\$ -	\$ -	\$ -	\$ 186,637.78	\$ 186,637.78
MARKUP (Profit Only)												
Labor 10%							\$ -					\$ -
Materials 10%								\$ -	\$ -			\$ -
Equipment 10%										\$ -		\$ -
Subcontractor 5%											\$ 9,331.89	\$ 9,331.89
SUBTOTAL							\$ -	\$ -	\$ -	\$ -	\$ 9,331.89	\$ 195,969.67
G&A COST (5.5%)												\$ 10,778.33
Total Time Related Overhead (TRO) Cost											\$	206,748.00

Notes:

1. Durations based on Time Impact Analysis (TIA)
2. WK = Week (5 Work Days or 7 Cal Days)
3. MW = Manweek

July 1, 2024

Rafael Torres
J.F. Shea Construction Inc.
667 Brea Canton Rd, Suite 30
Walnut, CA 91789

Re: MSWD Regional Water Reclamation Facility Extended General Conditions Costs

Dear Mr. Torres:

Please review the summary of costs below that have been incurred by Baker Electric. These costs are based on 218 extension days resulting from various approved contract change orders which lead to additional performance by Baker Electric on the project.

Summary of extension costs:

1) Project Executive	\$20,056.00
2) Project Engineer	\$0.00
3) Project Superintendent	\$35,340.42
4) Project Field Supervision	\$0.00
5) Jobsite Cleanup	\$5,595.62
6) Extended Fuel Usage	\$21,772.97
7) Extended Support Costs	\$31,657.52
8) Jobsite Tools	\$46,413.07
9) Mandatory Meetings	\$8,835.10

<u>Profit (on items 1, 2, 3, 4, 5, 6, 7, 8, 9) at 10%</u>	<u>\$16,967.07</u>
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Total	\$186,637.78
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Total daily rate	\$856.14
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A summary of each cost calculation is as follows:



1) Project Executive

See page 5 of this document for actual cost breakdown.

2) Project Engineer

N/A

3) Project Superintendent

See page 5 of this document for actual cost breakdown.

4) Project Field Supervision

N/A

5) Jobsite Cleanup

See page 5 of this document for actual cost breakdown.

6) Extended Fuel Usage

See page 5 of this document for actual cost breakdown.

7) Mandatory Meetings

See page 5 of this document for actual cost breakdown.

8) Extended Support Costs

See exhibit A page 6 of this document for actual cost breakdown.

9) Extended Jobsite Tools

See exhibit B page 7 of this document for actual cost breakdown.

10) Extension Days Calculation

See page 8 of this document.

Baker Electric would like to request a meeting once J.F. Shea has ample time to review these costs. Please note, labor inefficiencies are not calculated into this. A full analysis is being implemented and may take some time. This cost is only for the extended general conditions.

If you have any questions or need further documentation to support this request for additional compensation, please do not hesitate to contact the undersigned.

Respectfully,

Hunter Anderson
Project Manager
Baker Electric, Inc

EXTENDED CONDITIONS SUMMARY

	DESCRIPTION	Per Extention Day	Extended
1	Project Executive	\$460.00	\$20,056.00
2	Project Engineer	\$0.00	\$0.00
3	Project Superintendent	\$810.56	\$35,340.42
4	Project Field Supervision	\$0.00	\$0.00
5	Jobsite Clean Up	\$128.34	\$5,595.62
6	Mandatory Meetings	\$202.64	\$8,835.10
7	Extended Fuel Usage	\$99.88	\$21,772.97
8	Extended Support Costs (Exhibit A)	\$145.22	\$31,657.52
9	Extended Tool Rental (Exhibit B)	\$212.90	\$46,413.07
	TOTAL EXTENSION CALCULATIONS	\$2,059.54	\$169,670.71
	Profit (10% per contract)		
	Subtotal for Items 1, 2, 3, 4, 5, 6, 7, 8, 9,		\$169,670.71
	10% Markup		\$16,967.07
	TOTAL COST FOR SCHEDULE EXTENSION	\$856.14	\$186,637.78



BREAKDOWN OF COSTS

PROJECT:		MSWD - Regional Water Reclamation Facility			
NUMBER OF EXTENTION DAYS:		218	(43.6 WORK WEEKS)		
CATEGORIES				PER EXTENTION DAY COST	EXTENDED COST
<u>PROJECT EXECUTIVE</u>		40 hours per week			
Hours spent on project from extention.		174.4		.5 days days per week	
Hourly wage for project executive		\$115.00			
Total Project Executive Cost				\$460.00	\$20,056.00
<u>PROJECT MANAGER/ENGINEER</u>					
Hours spent on project from extention.					
Hourly wage for project engineer					
Total Project Manager/Engineer Cost				\$0.00	\$0.00
<u>PROJECT SUPERINTENDENT</u>		40 hours per week			
Hours spent on project from extention.		348.8		1 day per week	
Hourly Rate for Superintendent		\$101.32			
Total for Superintendent				\$810.56	\$35,340.42
<u>PROJECT FIELD SUPERVISION</u>					
Hours spent on project from extention.		0			
Hourly Rate for Foreman		\$0.00			
Total Field Supervision Cost				\$0.00	\$0.00
<u>JOBSITE CLEANUP</u>					
Total hours of cleanup		87		2 hour/week	
Average hourly rate for apprentice		\$64.17			
Total Cost for Jobsite Cleanup				\$128.34	\$5,595.62
<u>MANDATORY MEETINGS</u>					
Total hours of Meetings (coordination/safety/foremans)		87		2 hours/week	
GF hourly rate for the job		\$101.32			
Total Cost for Meetings				\$202.64	\$8,835.10
<u>EXTENDED FUEL USAGE</u>					
Project Manager					
Trips per Week		0.25		From Baker Office to jobsite	
Miles per Trip		222			
Cost per mile		\$0.58			
Total Cost for Extended period				\$6.44	\$1,403.48
Project Superintendent					
Trips per Week		0.25		From Baker Office to jobsite	
Miles per Trip		222			
Cost per mile		\$0.58			
Total Cost for Extended period				\$6.44	\$1,403.48
Project Foreman					
Trips per Week		5			
Miles per Trip		150			
Cost per mile		\$0.58			
Total Cost for Extended period				\$87.00	\$18,966.00
TOTAL FOR EXTENDED FUEL USAGE				\$99.88	\$21,772.97
TOTAL COST FOR EXTENSION				\$525.95	\$91,600.11

EXHIBIT A

PROJECT SUPPORT COSTS				
Office Equipment			Per Day	Extended
20' Storage Containers			\$0.00	
3	(monthly cost)	\$405.00	\$27.00	\$5,886.00
Foreman Truck			\$0.00	\$0.00
1	(monthly cost)	\$2,500.00	\$83.33	\$18,166.67
20' Combo Office Trailer			\$25.00	\$5,450.00
	(monthly cost)	\$750.00		
Water Service			\$1.36	\$297.28
	(monthly cost)	\$40.91		
Network Service			\$0.67	\$145.91
	(monthly cost)	\$20.08		
Laptop Computer			\$2.17	\$473.64
	(monthly cost)	\$65.18		
17" LCD Monitor			\$0.71	\$153.84
	(monthly cost)	\$21.17		
Desk			\$1.02	\$223.30
	(monthly cost)	\$30.73		
Chair			\$0.27	\$59.01
	(monthly cost)	\$8.12		
Plan Table			\$0.98	\$214.22
	(monthly cost)	\$29.48		
Scanner / Printer			\$2.70	\$587.66
	(monthly cost)	\$80.87		
TOTAL FOR EXTENDED SUPPORT COSTS			\$145.22	\$31,657.52

EXHIBIT B

PROJECT TOOL AND EQUIPMENT RENTAL

DESCRIPTION	QTY	MONTHLY RATE	UNIT	EXT.	PER DAY EXT.
Bender 1/2" EMT	4	5.95	Ea.	\$23.80	\$0.79
Bender 3/4" EMT	2	\$7.79	Ea.	\$15.58	\$0.52
Bender 1" EMT	2	\$11.90	Ea.	\$23.80	\$0.79
Bender 1 1/4" EMT	1	\$19.36	Ea.	\$19.36	\$0.65
6' Step Ladder	2	\$29.65	Ea.	\$59.30	\$1.98
8' Step Ladder	2	\$42.37	Ea.	\$84.74	\$2.82
10' Step Ladder	2	\$67.79	Ea.	\$135.58	\$4.52
12' Step Ladder	1	\$74.14	Ea.	\$74.14	\$2.47
Band Saw M18 Cordless	3	\$199.17	Ea.	\$597.51	\$19.92
M18 Sawzall Reciprocating Saw	4	\$93.28	Ea.	\$373.12	\$12.44
Battery M18 Red Lithium	29	\$8.40	Ea.	\$243.60	\$8.12
Arc Flash Kit	0	\$24.52	Ea.	\$0.00	\$0.00
M18 Rocket LED Light Tower	2	\$66.76	Ea.	\$133.52	\$4.45
Extension Cord 100'	0	\$13.32	Ea.	\$0.00	\$0.00
Extension Cord 50'	0	\$8.41	Ea.	\$0.00	\$0.00
Pallet Jack 5500lbs.	0	\$126.40	Ea.	\$0.00	\$0.00
Threaded Rod Cutter	1	\$30.90	Ea.	\$30.90	\$1.03
Trash Buggy	1	\$42.90	Ea.	\$42.90	\$1.43
Laynard 6'	8	\$8.35	Ea.	\$66.80	\$2.23
Full Body Harness Universal	3	\$12.72	Ea.	\$38.16	\$1.27
Wire Caddy	1	\$53.29	Ea.	\$53.29	\$1.78
Power Ground Rod Driver	1	\$56.40	Ea.	\$56.40	\$1.88
Top Lift Gang Box	1	\$33.12	Ea.	\$33.12	\$1.10
Black Material Cart	7	\$117.59	Ea.	\$823.13	\$27.44
1/4" Hex Impact M18 Cordless	6	\$72.73	Ea.	\$436.38	\$14.55
1" SDS Plus Rotary M18 Cordless	2	\$120.13	Ea.	\$240.26	\$8.01
Multi Bay Charger M18	3	\$5.57	Ea.	\$16.71	\$0.56
Metal Saw 5 3/3" M18 Cordless	0	\$65.34	Ea.	\$0.00	\$0.00
Super Tugger Motor	1	\$195.00	Ea.	\$195.00	\$6.50
1000 MCM Cable Crimper - Hydraulic	0	\$161.00	Ea.	\$0.00	\$0.00
1000 MCM Cable Cutter - Hydraulic	0	\$176.56	Ea.	\$0.00	\$0.00
Manual Punch Set 1/2" - 2"	1	\$9.45	Ea.	\$9.45	\$0.32
Hydraulic Punch Set 1/2" - 6"	1	\$221.86	Ea.	\$221.86	\$7.40
PLS 180 Laser System	2	\$21.10	Ea.	\$42.20	\$1.41
Pipe Rack	1	\$19.12	Ea.	\$19.12	\$0.64
Vacuum M18 Cordless	3	\$15.30	Ea.	\$45.90	\$1.53
Radio 16 Channel 5 Watt	4	\$125.13	Ea.	\$500.52	\$16.68
1/2"-4" Knockout Drill Set	1	\$57.00	Ea.	\$57.00	\$1.90
1/2" x 1200' Pull Rope	1	\$11.46	Ea.	\$11.46	\$0.38
Cable Grips	1	\$42.41	Ea.	\$42.41	\$1.41
2000W Portable Generator	1	\$287.57	Ea.	\$287.57	\$9.59
Wire Puller 10,000lbs	1	\$343.12	Ea.	\$343.12	\$11.44
Torque Wrench 3/8"	1	\$81.53	Ea.	\$81.53	\$2.72
Temp Power Box 6 Outlet	2	\$350.00	Ea.	\$700.00	\$23.33
Temp Power Cord 50A 100'	0	\$59.46	Ea.	\$0.00	\$0.00
Temp Power Cord 50A 50'	6	\$33.34	Ea.	\$200.04	\$6.67
Temp Power Y Adapter	1	\$7.84	Ea.	\$7.84	\$0.26
Temp Lights	0	\$10.16	Ea.	\$0.00	\$0.00
TOTAL PER EXTENTION DAY COST					\$212.90

***Rental Rates comply with the latest edition of the NECA Tool and Equipment Rental Rates

CO #	Description	# DAYS	# HOURS
001	SBR #1	0	427
002	Site Security	90	2306
002A	Site Security Materials Procurement	40	0
003	RFI 116 Diaphragm Seal	1	2
004	AST Blowers	9	203
006	Decanter Wiring	2	30
007	BV-301, 302, 303, 304	6	167
009	Ethernet Boosters	1	5
011	R1-SCE	14	235
012	RFI 050 (GC200) BFP Grounding	2	20
013	RFI GC201 PH Monitoring	12	203
014R1	AirFiber Antenna	0	9
015	RFI 199 P-501 & P-502	1	12
016	RFI 206 Auto Samplers	2	30
018	RFI-271 Lighting Type Change-Open Ceilings	1	0
019	RFI 285 - Exhaust Fan EF-4	3	27
020	Added Exit Sign - RCFD Changes	0	13
021	Decanter Controls Change	10	130
022	ACCU-1 Power	1	18
023	FIT 501, 502 & 701 - LIT 703 & 704	2	24
024	RFI-326 Blower Control Panel Power	3	26
025	BFP Power	3	34
026	Roll Up Door Conduit	3	71
027	RFI-336 Barscreen Controls	1	18
028	Sign Lighting	1	6
029	RFI-339 Dewatering RM CON 602 Slide Gate Proximity Switches	4	39
030	RFI-338 Conveyor-BFP Interconnection	1	16
031	RFI-332 Sludge CON 602 Power	2	21
33	SBR Light Photocells	1	10
36	Triplex Float Controllers	1	2
38	Water Heater Power	1	16
	TOTALS	218	4,120.00