

March 23, 2023

Remon Habib  
City Engineer, City of Lake Elsinore  
130 South Main Street  
Lake Elsinore, CA 92530  
Tel: (951) 674-3124

Subject: Main Street I-15 Interchange Modifications, Change Order Request –  
Amendment 2

Dear Mr. Habib:

Below is a summary of request for change order #2 from Sommer Engineering Inc.

**Amendment 2  
Changer Order Request  
March 12, 2023**

Sommer Engineering Inc. is under contract to perform Design Support During Construction. Tasks 2 Pre-Construction Phase Services, Task 3 Final Bid Package and Task 4 Bidding Support were completed in August 2021.

Since August 2021, Sommer has been providing Task 5 Construction Support - Task 5.1 Response to Contractors RFI's, Task 5.2 Review Shop Drawings, and Task 6.1 As-Built documentation. There have been approximately 55 RFI's requiring design review and modifications. In addition to response to RFI's and shop drawing review, some of the major items that were not expected in the scope of work but have been completed are as follows:

- A) Drainage – Sommer converted all existing drainage profiles from a previous datum to the latest datum. All drainage profile sheets were updated to new elevations.
- B) Elevations - The plans show as-built elevations and were found to be different enough from existing conditions in the field, requiring survey to establish exist conditions. Existing conditions were surveyed and compared with field elevations. This also included establishing all the alignments to the existing coordinate system. Work related to updating all the elevations continues and is further described below.
- C) CHP Area - At the proposed CHP area on the southbound entrance ramp the existing and required slope for the widening differs from the plans. Sommer has met several times with Caltrans to review the area and challenges with providing a nonstandard slope. Work on this item continues and is further described below.

To complete the update to the plans with new elevations, obtain Caltrans approval for nonstandard slope and to continue to respond to contractor RFI's Sommer requests additional funds to complete the project. As such, Sommer is requesting \$281,926.75 in additional funding for the additional scope items outlined as follows:

## **TASK 5 – CONSTRUCTION SUPPORT**

### **5.2 Response to Contractor's RFIs**

Additional RFI's are expected to complete the construction. The estimate is based on the amount of work done to date on RFI's and understanding of work to be constructed.

#### **5.2a Additional Scope Items**

##### **5.2a.1 Survey Exist Conditions and Survey Built Conditions**

The survey of exist conditions has been completed, but coordination with Psomas continues how to utilize the data. Fund are requested for the work that was out of scope and was completed utilizing budget from other areas. The requested funds will be re-allocated for budget in other areas. The team will have Psomas survey the final built conditions, this will provide a means to compare from existing conditions to constructed conditions and to determine the earth work completed as well as a document of final built conditions.

##### **5.2a.2 Interchange Modelling, Elevations, Update of Plans**

Because the as-built elevations used in design did not correlate well with the field conditions, a survey of the site was conducted, as discussed above. Sommer has begun the process of updating the plans and the proposed design based on new existing elevations. This effort continues and requires "OpenRoads" modelling of the existing conditions to properly develop modified proposed design or to confirm the design. This requires update to all the construction details, typicals and several other sheets in the plan set. This effort was not anticipated or nor would be expected in the scope of services for design support.

##### **5.2a.3 Southbound Entrance Ramp – CHP**

A CHP pull out is proposed at the southbound entrance ramp and is required for the proposed ramp metering. This requires widening of the ramp in area of a steep and high slope (2:1 and 30' height). In order to provide a slope that does not impact right of way a nonstandard slope is proposed. To get approval for the use of the nonstandard slope in an area with greater than 10 ft of height, there have been meetings with Caltrans and the below listed documents are required in order to get approval.

- **Design Standard Decision Document (DSDD)**

The document requires history of the project, listing of approved design exceptions for the project, description of nonstandard feature, justification for a nonstandard feature, cost to make the area standard, traffic and accident data. The document requires approval from all disciplines.

- **Length of Need (LON)**

A LON is required which shows the calculations to determine the length of the required guardrail due to the steep slope. This will be reviewed with Caltrans safety and operations and agreed upon length of guardrail will be determined. In addition to calculations and exhibit is required.

- **Additional Plan Set**

An “additional plan set” is required that shows all the sheets updated per the revised slope and guardrail. The entire plan set is not submitted, just any of the sheets that show the revised slope and guardrail. This is circulated with Caltrans for agreement as part of the overall acceptance of the changed conditions and proposed slope.

**Summary:**

In summary, Tasks 2 Pre-Construction Phase Services, Task 3 Final Bid Package and Task 4 Bidding Support are completed. Task 5 Construction Support and Task 6 Project Closeout continue for completion of this contract. The additional funding is requested to complete the known additional items and estimated remaining response to requests from the field.

This effort was not anticipated or nor would be expected in the scope of services for design support.

Sincerely,

**SOMMER Engineering**



Merideth Cann, PE

President

**City of Lake Elsinore**  
**I-15 / Main Street IC**  
**PROFESSIONAL ENGINEERING SERVICES**  
**Main Street Interchange Improvement Project**  
**Design Support During Construction (DSDC)**  
**City Project No. Z10017**  
**AMENDMENT 2 FEE PROPOSAL SUMMARY**

		SOMMER and Team		TOTALS	
	Labor		\$ 281,926.75		\$ 281,926.75
	ODC		\$ -		\$ -
			\$ -		\$ -
	<b>TOTAL</b>		<b>\$ 281,926.75</b>		<b>\$ 281,926.75</b>

**NOTE:** Please note that this estimate is a "not to exceed" and given the nature of construction support, it is dependent upon the number of RFI's during construction.

City of Lake Elsinore								
Main Street Interchange Improvement Project								
Design Support During Construction (DSDC)								
AMENDMENT 2 (includes 1/2 Jan Feb)								
TEAM SUMMARY								
TASK	DESCRIPTION	SOMMER	EPIC	FEHR & PEERS	KLEINFELDER	LCI	PSOMAS	Requested Totals
INVOICE - PARTIAL JAN AND FEBRUARY								
5.2	Respond to Contractor's RFIs (Typical)	\$20,952.96						
5.2 A.2	Interchange Modelling, Elevations, Update of Plans	\$39,772.08						
5.2.A.3	SB Entrance CHP	\$10,980.40						
	SUBTOTAL INVOICE-Incorporated into below numbers.	\$71,705.44						
Task 5 - CONSTRUCTION SUPPORT								
5.2	Respond to Contractor's RFIs (Typical)	\$87,065.84	\$0.00	\$0.00	\$4,300.00	\$0.00	\$3,000.00	\$94,365.84
5.2 A	Additional Scope Items	\$135,101.70	\$0.00	\$0.00	\$0.00	\$0.00	\$44,626.94	\$179,728.64
5.2A.1	Survey Built Conditions	\$10,206.00	\$0.00	\$0.00	\$0.00	\$0.00	\$44,626.94	
5.2A.2	Interchange Modelling, Elevations, Update of Plans (RAMPS)	\$84,814.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
5.2A.3	SB Entrance CHP	\$40,081.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	DSDC	\$11,850.07					\$0.00	
	LON	\$10,461.03					\$0.00	
	Additional Plan Set	\$17,770.05					\$0.00	
5.3	Review Shop Drawings	\$0.00	\$0.00	\$0.00	\$2,100.00	\$0.00	\$0.00	\$2,100.00
	SUBTOTAL -Task 5 - Construction Support	\$222,167.54	\$0.00	\$0.00	\$6,400.00	\$0.00	\$47,626.94	\$276,194.48
Task 6 - PROJECT CLOSE OUT								
6.1	Final As-Built Plans	\$5,732.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,732.28
6.2	Electronic Deliverables	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	SUBTOTAL -Task 6 - Project Close Out	\$5,732.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,732.28
	ODCs							\$0.00
	TOTAL	\$227,899.81	\$0.00	\$0.00	\$6,400.00	\$0.00	\$47,626.94	\$281,926.75

**City of Lake Elsinore**  
**Main Street Interchange Improvement Project**  
**Design Support During Construction (DSDC)**  
**AMENDMENT 2 (without 1/2 Jan, Feb)**

**SOMMER ENGINEERING INC.**

TASK	DESCRIPTION	Project Manager	Senior Engineer Struc	Senior Engineer Civil	Project Engineer	Assistant Engineer II	Assistant Engineer I	CADD	TOTAL HOURS	COST
		\$192.78	\$181.44	\$181.44	\$158.76	\$113.69	\$88.42	\$109.14		
<b>Task 5 - CONSTRUCTION SUPPORT</b>										
<b>5.2</b>	<b>Respond to Contractor's RFIs (Typical)</b>	15	0	0	200	200		80	495	\$66,112.88
<b>5.2 A</b>	<b>Additional Scope Items</b>	60	0	100	170	80	0	170	580	\$84,349.22
5.2A.1	Survey Existing Conditions	0			0				0	\$0.00
5.2A.1	Survey Post Construction	20			40				60	\$10,206.00
5.2A.2	Interchange Modelling, Elevations, Update of Plans			80	80	80		80	320	\$45,042.47
5.2A.3	SB Entrance CHP	40	0	20	50	0	0	90	200	\$29,100.75
	DSDD	20		20				40	80	\$11,850.07
	LON	10			40			20	70	\$10,461.03
	Additional Plan Set	10			10			30	50	\$6,789.65
<b>5.3</b>	<b>Review Shop Drawings</b>	0	0	0	0	0	0	0	0	\$0.00
	<b>SUBTOTAL -Task 5 - Construction Support</b>	<b>75</b>	<b>0</b>	<b>100</b>	<b>370</b>	<b>280</b>	<b>0</b>	<b>250</b>	<b>1,075</b>	<b>\$150,462.10</b>
<b>Task 6 - PROJECT CLOSE OUT</b>										
6.1	Final As-Built Plans	5	0	0	5	10	0	26	46	\$5,732.28
6.2	Electronic Deliverables	0	0	0	0	0	0	0	0	\$0.00
	<b>SUBTOTAL -Task 6 - Project Close Out</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>10</b>	<b>0</b>	<b>26</b>	<b>46</b>	<b>\$5,732.28</b>
	<b>ODCs</b>									<b>\$0.00</b>
<b>TOTAL</b>		<b>80</b>	<b>0</b>	<b>100</b>	<b>375</b>	<b>290</b>	<b>0</b>	<b>276</b>	<b>1,121</b>	<b>\$156,194.37</b>

Additional Items - Hours Approx by Sheets						
	Sheets	Full Hours	Partial Hours			
<b>New Elevations</b>						
typicals	x1	0	20			
typicals	x2	0	20			
typicals	x3	0	20			
prof super	5		70			
construction details	c1		20			
	c2		20			
	c3		0			
	c4		0			
	c5		20			
	c6	50	0			
	c7	50	0			
	c8	50	0			
	c9	50	0			
	c10	0	0			
traffic handling	th1		20			
	th2		20			
	th3		20			
	th3		20			
	th5		20			
	<b>subtotal</b>	<b>200</b>	<b>290</b>		<b>490</b>	
<b>DSDD LON</b>						
	DSDD new sheet		30			
	LON new sheet		30			
	subtotal		60		<b>60</b>	
<b>CHP ADD Sheets</b>						
	Layout		10			
	Temp Water		4			
	Drainage		4			
	Utility		4			
	Traffic Handling		4			
	PD Sheet		4			
	Summary of Quantities		4			
	Planting		4			
	Irrigation		4			
			42		<b>42</b>	
<b>Drainage Update for Survey Elevations</b>						
	DP1		8			
	DP2		8			
	DP3		8			
	D1		0			
	DQ		8			
			32		<b>32</b>	

CITY OF LAKE ELSINORE											
Design Support During Construction (DSDC)											
TABLE											
Burdened Rate Sheet											
SOMMER Engineering Inc.			2021		2022			2023			
CLASSIFICATION	2020 RAW RATE	FULLY BURDENE D RATE	2021 RAW RATE	FULLY BURDENE D RATE	PERSONNEL	2022 RAW RATE	FULLY BURDENE D RATE	CLASSIFICATION	PERSONNEL	2023 RAW RATE	FULLY BURDENE D RATE
Project Manager	\$120.00	\$272.16	\$123.60	\$280.32	M Cann moved to Sr Eng Aug 2022	\$127.31	\$288.73	Project Manager	Merideth Cann	\$85.00	\$192.78
Senior Engineer <i>Struc</i>	\$85.00	\$192.78	\$87.55	\$198.56		\$90.18	\$204.52	Senior Engineer <i>Struc</i>		\$80.00	\$181.44
Senior Engineer <i>Civil</i>	\$90.00	\$204.12	\$92.70	\$210.24	M Cann, G Karayiannis	\$95.48	\$216.55	Senior Engineer <i>Civil</i>	G Karayiannis	\$80.00	\$181.44
Project Engineer	\$70.00	\$158.76	\$72.10	\$163.52	Thu Luu, Michael McFadden	\$74.26	\$168.43	Project Engineer	Thu Luu, Mike McFadder	\$70.00	\$158.76
Assistant Engineer II	\$45.00	\$102.06	\$46.35	\$105.12		\$47.74	\$108.28	Assistant Engineer II	Jereme Champagnie	\$50.13	\$113.69
Assistant Engineer I	\$35.00	\$79.38	\$36.05	\$81.76		\$37.13	\$84.21	Assistant Engineer I		\$38.99	\$88.42
CADD	\$42.00	\$95.26	\$43.26	\$98.11	Clive Wynter, Jereme Champagnie	\$44.56	\$101.06	CADD	Clive Wynter	\$48.12	\$109.14
Administration	\$25.00	\$56.70	\$25.75	\$58.40		\$26.52	\$60.15	Administration		\$27.85	\$63.16
1. Overhead Rate	110.00%		110.00%			110.00%		1. Overhead Rate		110.00%	
2. Fee	8.00%		8.00%			8.00%		2. Fee		8.00%	
For Estimating Purposes Only											