

**HENSEL PHELPS**

Plan. Build. Manage.

Job No.

Date:

ASC Region 7 Commercial Competition Change Management: Owner Change Order Request

Description: Costs for Bulletin 1 which revised the sanitary sewer routing and added a sanitary sewer lift station and associated lift station infrastructure. Some excavation for the original SS design had occurred and needed to be backfilled.

Reference: Initiating Document: Bulletin 1 CE # 1 PCCO # 1

Hensel Phelps Costs

1.	Labor	\$ <u>1,760</u>
2.	Material & Other Costs	\$ <u>5,235</u>
3.	Equipment	\$ <u>0</u>
4.	Subtotal (Lines 1 - 3)	\$ <u>6,995</u>

Subcontractor Costs

5.	CUDI (See attached Summary Sheet)	\$ <u>449,943</u>
6.	SUBCONTRACTOR (See attached Summary Sheet)	\$ <u>0</u>
7.	SUBCONTRACTOR (See attached Summary Sheet)	\$ <u>0</u>
8.	SUBCONTRACTOR (See attached Summary Sheet)	\$ <u>0</u>
9.	Subtotal (Lines 5 - 8)	\$ <u>449,943</u>

Total Costs

10.	Hensel Phelps & Subcontractor Direct Cost Total (Lines 5 & 10)	\$ <u>456,938</u>
11.	Hensel Phelps Bonds & Insurance (1.1%)	\$ <u>5,026</u>
12.	Contractor Fee (6%) 6% of (Line 10 + 11) →	\$ <u>27,718</u>
13.	Total Change Order Value	\$ <u>489,682</u>

**HENSEL PHELPS**

Plan. Build. Manage.

Solano County Classroom & Vocational Training Center

CE# _____

DATE: _____

Labor, Material & Equipment Worksheet

		A	B	D (A * C)		E	G (A * E * F)		H	J (A * H * I)		K	M (A * K * L)		N (D+G+J+M)	
Item #	Description	Quantity	Unit	Material		Equipment			Engineering / Supervision Labor			Craft Labor			TOTAL	
				Cost/Unit	Cost	Production	Units	Cost	Production	Units	Cost	MH/Unit	Rate	Cost		
	Labor															
1	Laborer	32.00	MH	\$ -	\$ -	-	-	\$ -	-	-	55.00	\$ -	1.00	\$ 55.00	\$ 1,760.00	\$ 1,760.00
2	Labor Foreman	0.00	MH	\$ -	\$ -	-	-	\$ -	-	-	41.43	\$ -	1.00	\$ 65.00	\$ -	
8	Carpenter	0.00	MH	\$ -	\$ -	-	-	\$ -	-	-	46.48	\$ -	1.00	\$ 60.00	\$ -	
9	Carpenter Foreman	0.00	MH	\$ -	\$ -	-	-	\$ -	-	-	59.51	\$ -	1.00	\$ 70.00	\$ -	
10	Cement Finisher	0.00	MH	\$ -	\$ -	-	-	\$ -	-	-	38.60	\$ -	1.00	\$ 75.00	\$ -	
11	Cement Finisher Foreman	0.00	MH	\$ -	\$ -	-	-	\$ -	-	-	48.10	\$ -	1.00	\$ 80.00	\$ -	
12	Operator - Equipment	0.00	MH	\$ -	\$ -	-	-	\$ -	-	-	33.38	\$ -	1.00	\$ 80.00	\$ -	
13	Operator - Crane	0.00	MH	\$ -	\$ -	-	-	\$ -	-	-	43.87	\$ -	1.00	\$ 80.00	\$ -	
14	Ironworker	0.00	MH	\$ -	\$ -	-	-	\$ -	-	-	39.48	\$ -	1.00	\$ 65.00	\$ -	
15	Ironworker Foreman	0.00	MH	\$ -	\$ -	-	-	\$ -	-	-	42.78	\$ -	1.00	\$ 75.00	\$ -	
	Subtotal				\$ -			\$ -			\$ -			\$ 1,760.00	\$ 1,760.00	
	Material & Other Costs															
9	Horizontal Opening Protection	0.00	LF	\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
10	Backrails	0.00	LF	\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
12	Temporary Heating	0.00	EA	\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
13	Temporary Protection	0.00	LS	\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
15	Traffic Barricades & Signs	1.00	LS	\$ 4,560.00	\$ 4,560.00	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -	\$ 4,560.00	
16	Temporary Project Fence	450.00	LF	\$ 1.50	\$ 675.00	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -	\$ 675.00	
17	Dumpster	0.00	EA	\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
19		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
20		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
21		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
22		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
23		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
	Subtotal				\$ 5,235.00			\$ -			\$ -			\$ -	\$ 5,235.00	
	Equipment															
24	Cranes - Convention	0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
25	Cranes - Tower	0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
26	Forklift	0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
27	Misc. Power Equipment	0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
28	Compressor	0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
		0.00		\$ -	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	\$ -		
	Subtotal				\$ -			\$ -			\$ -			\$ -	\$ -	
	Total				\$ 5,235.00			\$ -			\$ -			\$ 1,760.00	\$ 6,995.00	

Job No. 0

Date: 1/0/1900

Subcontractor Summary

Can U Dig It - Underground Utilities

Description: Costs for Bulletin 1 which revised the sanitary sewer routing and added a sanitary sewer lift station and associated lift station infrastructure. Some excavation for the SS design had occurred and needed to be backfilled.

Reference: Initiating Document: Bulletin 1 CE # 1 PCCO # 1

Subcontractor Costs

1.	Labor	\$ <u>133,350</u>
2.	Material	\$ <u>239,100</u>
3.	Equipment	\$ <u>66,926</u>
4.	3rd Tier Sub Costs (Zapp Electric)	\$ <u>25,196</u>
5.	Subtotal (Lines 1 - 4)	\$ <u>464,572</u>
6.	Overhead & Profit	\$ <u>69,686</u>
7.	Subtotal (Lines 5 - 7)	\$ <u>534,258</u>
8.	Bonds and Insurance	\$ <u>10,685</u>
9.	Total	\$ <u>544,943</u>
	CREDIT FOR ORIGINAL SCOPE COST OF WORK	\$ <u>-95,000</u>
	TOTAL	\$ <u>449,943</u>

Change Order Request #1 ANSWER

Description of Work

Design Bulletin revised the overall Sanitary Sewer routing onsite. Invert elevations were revised and a sewage lift station was added. Costs for this change include a completely new sewer system install along with the lift station and associated install. This COR also includes costs to backfill the trenches that had commenced per the original design.

Cost Breakdown

Material:

• Manhole boxes -		\$ 13,500
• SS Pipes -		\$ 5,000
• Trench Plates -		\$ 500
• Trench Shoring Rental -		\$ 22,000
• Sewer Lift Station -		\$ 69,100
• Dewatering Baker Tank -		\$ 25,000
• Sand & AB (includes transport) -		\$ 35,000
• Lift Station -		\$ 69,000
• Material Total -		\$ 239,100

Equipment

• 6" Dewatering Pump -		\$ 1,200
• Cat 938F Loader -	120HRS	\$ 12,960
• Water Truck -	60HRS	\$ 2,400
• Excavator (60K lb)	60HRS	\$ 8,220
• Excavator (78K lb)	130HRS	\$ 23,010
• Backhoe -	88HRS	\$ 5,720
• Boom Truck (14 ton)	32HRS	\$ 1,000
• Pickup Truck(s) -	400HRS	\$ 12,416
• Equipment Total -		\$ 66,926

Labor (MH=Man Hours)

• Dewatering (Laborer) -	80 MH	\$ 4,800	60
• Load/Unload Equipment (Laborer) -	10MH	\$ 600	60
• Excavate/Install SS Pipe			
o Laborer(s) -	650MH	\$ 39,000	60
o Labor Foreman -	200MH	\$ 14,000	70
o Operator(s) -	320MH	\$ 28,800	90
o Operator Foreman	230MH	\$ 24,150	105
• Labor Total -		\$ 111,350	

Lift Station Electrical (Zap Electric)

• See attached proposal -	\$ 25,196
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Solano County VTC

Project Management (Labor)

• Project Manager -	200MH	\$ 14,000	70
• Project Engineer -	200MH	\$ 8,000	40
• Project Management Labor Total -		\$ 22,000	

SUBTOTAL - \$ 439,376

Lift Station Electrical (See attached Zapp Proposal) - \$ 25,196

SUBTOTAL - \$ 464,572

Overhead & Profit - \$ 69,696

SUBTOTAL - \$ 534,258

Bonds & Insurance - \$ 10,685

TOTAL - \$ 544,943

Credit for Original Bid Scope - (\$ 95,000)

FINAL TOTAL - \$ 449,943

* ANSWER

DATE _____

PROJECT SOLANO VTC

ZAPP Electric **Change Order # 1**

* FURNISH & INSTALL ELECTRICAL COMPONENTS FOR
LIFT STATION @ SOLANO (C401)

LABOR

JOURNEYMAN @ \$82/HR	x 150 HRS	=	\$ 12,300
FOREMAN @ \$90/HR	x 30 HRS	=	\$ 2,700
PM @ \$95/HR	x 4 HRS	=	\$ 380
			\$ 15,380

MTRC

1.5" PVC CONDUIT, ELBOWS
COUPLERS, CONNECTIONS, ETC.

= \$ 2,200

2" PVC CONDUIT, ELBOWS
COUPLERS, CONNECTORS, ETC.

= \$ 1,550

WIRE

= \$ 2,350

\$ 6,100

SLIP → 21,480

MARKUP → 3,222

24,702

BONDS & INS. → 494

TOTAL 25,196

* EXCLUDES

- PERMIT
- FURNISH LIFT STATION
- TESTING / INSPECTIONS