

**HIGHLINE WATER DISTRICT
King County, Washington**

RESOLUTION 18-9-25A

RESOLUTION AUTHORIZING CHANGE ORDER #2 AND ACCEPTING AS COMPLETE CONTRACT 17-70-19 WITH KAR-VEL CONSTRUCTION, INC. FOR PROJECT 17-1 2017 WATER SYSTEM IMPROVEMENTS

WHEREAS, the District advertised and awarded Project 17-1 to Kar-Vel Construction, Inc. on 6/7/17 for a construction cost of \$1,701,050.00 plus W.S.S.T.; and

WHEREAS, the Board of Commissioners declared an emergency for a main break on S 176th Street by passage of Resolution 17-10-18A and directed staff to negotiate, approve and execute a change order with Kar-Vel Construction, Inc. with an estimated cost of \$420,465.00 before W.S.S.T.; and

WHEREAS, staff notified the Board on 1/17/18 and 2/21/18 of an issue with the connection at S 176th Street and the Bow Lake Tank as part of the emergency work requiring a redesign of the connection and issuing a field directive to make repairs on a time and materials basis estimated to be approximately \$100,000.00; and

WHEREAS, the work was deemed substantially complete on 5/24/18 with final completion on 8/31/18; and

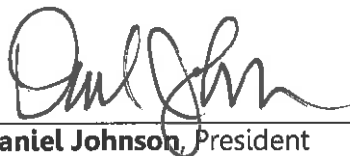
WHEREAS, the final construction amount including the emergency work was \$2,284,263.20 before W.S.S.T. (**Exhibit A** – Final Pay Request No. 11, attached and incorporated herein).

NOW, THEREFORE, BE IT RESOLVED:

1. The General Manager or designee is authorized to execute a final change order with Kar-Vel Construction, Inc. for a final project cost of \$2,284,263.20 before W.S.S.T. and granting a time extension to the substantial and final completion dates.
2. The Board of Commissioners accepts the project as complete and authorizes the General Manager or designee to sign any necessary documents to close out the project.

ADOPTED BY THE BOARD OF COMMISSIONERS of Highline Water District, King County, Washington, at an open public meeting held this **25th** day **September 2018**.

BOARD OF COMMISSIONERS

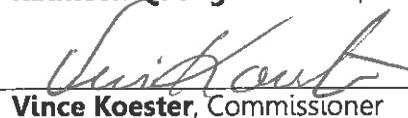


Daniel Johnson, President

Kathleen Quong-Vermeire, Secretary



Todd Fultz, Commissioner



Vince Koester, Commissioner



George Landon, Commissioner

EXHIBIT A

HIGHLAND WATER DISTRICT
 PROJECT 17-1 2017 WATER SYSTEM IMPROVEMENTS
 CONTRACT #17-70-19

CONSULTANT: GRAY & OSBORNE, INC. - 16-60-20
 CONTRACTOR: KAR-VEL CONSTRUCTION, INC. - 17-70-19

FINAL PAY REQUEST #: 11
 DATE: 09/19/18

ITEM #	SCHEDULE A ITEM DESCRIPTION	ESTIMATED CONTRACT QUANTITIES			PREV. APPROVED		TOTAL THIS REQUEST		TOTAL TO DATE			ITEM #	
		BID QTY	UNIT	UNIT PRICE	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT		%
A1	Mobilization	1	LS	\$ 170,000.00	\$ 170,000.00	1.00	\$ 170,000.00		\$ -	1.00	\$ 170,000.00	100.00%	A1
A2	Temporary Erosion and Sedimentation Control	1	LS	\$ 15,000.00	\$ 15,000.00	0.90	\$ 13,500.00	0.10	\$ 1,500.00	1.00	\$ 15,000.00	100.00%	A2
A3	Trench Safety Systems	7,725	LF	\$ 2.00	\$ 15,450.00	7,878.00	\$ 15,756.00		\$ -	7,878.00	\$ 15,756.00	101.98%	A3
A4	Project Temporary Traffic Control	1	LS	\$ 47,000.00	\$ 47,000.00	0.90	\$ 42,300.00	0.10	\$ 4,700.00	1.00	\$ 47,000.00	100.00%	A4
A5	Uniformed Law Officer and Patrol Vehicle	20	HR	\$ 150.00	\$ 3,000.00	0.00	\$ -	33.50	\$ 5,025.00	33.50	\$ 5,025.00	167.50%	A5
A6	8-inch Ductile Iron Water Main, Class 52	5,975	LF	\$ 65.00	\$ 388,375.00	6,159.00	\$ 400,335.00		\$ -	6,159.00	\$ 400,335.00	103.08%	A6
A7	12-inch Ductile Iron Water Main, Class 52	1,775	LF	\$ 90.00	\$ 159,750.00	1,731.00	\$ 155,790.00		\$ -	1,731.00	\$ 155,790.00	97.52%	A7
A8	8-inch Gate Valve and Valve Box	39	EA	\$ 1,200.00	\$ 46,800.00	40.00	\$ 48,000.00		\$ -	40.00	\$ 48,000.00	102.56%	A8
A9	12-inch Gate Valve and Valve Box	10	EA	\$ 2,300.00	\$ 23,000.00	9.00	\$ 20,700.00		\$ -	9.00	\$ 20,700.00	90.00%	A9
A10	Additional Ductile Iron Main Fittings and Restrained Joints	5,000	LBS	\$ 0.01	\$ 50.00	92.00	\$ 0.92		\$ -	92.00	\$ 0.92	1.84%	A10
A11	Asbestos Cement Pipe Removal and Disposal	300	LF	\$ 5.00	\$ 1,500.00	375.00	\$ 1,875.00		\$ -	375.00	\$ 1,875.00	125.00%	A11
A12	Short Side Service Connection, 5/8 inch through 1 inch	39	EA	\$ 1,700.00	\$ 66,300.00	46.00	\$ 78,200.00		\$ -	46.00	\$ 78,200.00	117.95%	A12
A13	Long Side Connection Service, 5/8 inch through 1 inch	43	EA	\$ 1,800.00	\$ 77,400.00	32.00	\$ 57,600.00		\$ -	32.00	\$ 57,600.00	74.47%	A13
A14	2-inch Hi-Valve Assembly	2	EA	\$ 3,500.00	\$ 7,000.00	2.00	\$ 7,000.00		\$ -	2.00	\$ 7,000.00	100.00%	A14
A15	Fire Hydrant Assembly	17	EA	\$ 7,000.00	\$ 119,000.00	18.00	\$ 126,000.00		\$ -	18.00	\$ 126,000.00	105.88%	A15
A16	Cut-In and/or Connection Existing System	21	EA	\$ 4,400.00	\$ 92,400.00	23.00	\$ 101,200.00		\$ -	23.00	\$ 101,200.00	109.52%	A16
A17	Crushed Surfacing Top Course	4,300	TON	\$ 1.00	\$ 4,300.00	1,009.73	\$ 1,009.73		\$ -	1,009.73	\$ 1,009.73	23.48%	A17
A18	Controlled Density Fill (CDF)	25	CY	\$ 120.00	\$ 3,000.00	21.00	\$ 2,520.00		\$ -	21.00	\$ 2,520.00	84.00%	A18
A19	HMA Class 1/2" PG64-22 Trench Patch	1,100	TON	\$ 150.00	\$ 165,000.00	1,524.83	\$ 228,724.50		\$ -	1,524.83	\$ 228,724.50	138.62%	A19
A20	1-1/2 inch HMA Class 1/2" PG 64-22 Overlay	1,750	TON	\$ 95.00	\$ 166,250.00	1,218.79	\$ 115,785.05	1.68	\$ 15,979.95	1,387.00	\$ 131,765.00	79.26%	A20
A21	Planing Bituminous Paving	650	SY	\$ 30.00	\$ 19,500.00	0.00	\$ -		\$ -	0.00	\$ -	0.00%	A21
A22	Final Saw Cut Existing Asphalt and Cement Concrete	13,400	LF	\$ 2.25	\$ 30,150.00	15,206.00	\$ 34,213.50		\$ -	15,206.00	\$ 34,213.50	113.48%	A22
A23	Cement Concrete Pavement, 1-Foot Thick	55	SY	\$ 250.00	\$ 13,750.00	0.00	\$ -	36.67	\$ 9,167.50	36.67	\$ 9,167.50	66.67%	A23
A24	Landscape and Surface Restoration	1	LS	\$ 35,000.00	\$ 35,000.00	0.70	\$ 24,500.00	0.30	\$ 10,500.00	1.00	\$ 35,000.00	100.00%	A24
A25	Minor Changes	1	CALC	\$ 25,000.00	\$ 25,000.00	0.63	\$ 15,793.63	0.01	\$ 366.10	0.65	\$ 16,163.73	64.66%	A25
A26	Resolution of Utility Conflicts	1	FA	\$ 20,000.00	\$ 20,000.00	0.29	\$ 5,780.24	0.12	\$ 2,491.23	0.41	\$ 8,271.47	41.36%	A26
				Subtotal	\$1,701,050.00	Sch A Subtotal	\$1,658,711.57	Sch A Subtotal	\$49,729.78	Sch A Subtotal	\$1,708,441.35	100.43%	

CHANGE ORDERS - EMERGENCY PROJECT (RESOLUTION 17-10-18A)

CO-1 BI #	SCHEDULE B - S 176TH ST ITEM DESCRIPTION	ESTIMATED CONTRACT QUANTITIES			PREV. APPROVED		TOTAL THIS REQUEST		TOTAL TO DATE			CO-1 BI #	
		BID QTY	UNIT	UNIT PRICE	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT		%
B1	Mobilization	1	LS	\$ 36,000.00	\$ 36,000.00	1.00	\$ 36,000.00		\$ -	1.00	\$ 36,000.00	100.00%	B1
B2	Temporary Erosion and Sediment Control	1	LS	\$ 2,300.00	\$ 2,300.00	0.90	\$ 2,070.00	0.10	\$ 230.00	1.00	\$ 2,300.00	100.00%	B2
B3	Trench Safety Systems	1,160	LF	\$ 1.00	\$ 1,160.00	1,145.00	\$ 1,145.00		\$ -	1,145.00	\$ 1,145.00	98.71%	B3
B4	Project Temporary Traffic Control	1	LS	\$ 10,000.00	\$ 10,000.00	0.90	\$ 9,000.00	0.10	\$ 1,000.00	1.00	\$ 10,000.00	100.00%	B4
B5	Uniformed Law Officer and Patrol Vehicle	150	HR	\$ 100.00	\$ 15,000.00	0.00	\$ -		\$ -	0.00	\$ -	0.00%	B5
B6	8-inch Ductile Iron Water Main, Class 52	30	LF	\$ 65.00	\$ 1,950.00	20.00	\$ 1,300.00		\$ -	20.00	\$ 1,300.00	66.67%	B6
B7	12-inch Ductile Iron Water Main, Class 52	1,130	LF	\$ 90.00	\$ 101,700.00	1,125.00	\$ 101,250.00		\$ -	1,125.00	\$ 101,250.00	99.58%	B7
B8	8-inch Gate Valve and Valve Box	1	EA	\$ 1,200.00	\$ 1,200.00	1.00	\$ 1,200.00		\$ -	1.00	\$ 1,200.00	100.00%	B8
B9	12-inch Gate Valve and Valve Box	1	EA	\$ 2,300.00	\$ 2,300.00	1.00	\$ 2,300.00		\$ -	1.00	\$ 2,300.00	100.00%	B9
B10	Additional Ductile Iron Main Fittings and Restrained	500	LBS	\$ 0.01	\$ 5.00	0.00	\$ -		\$ -	0.00	\$ -	0.00%	B10
B11	Short Side Service Connection, 5/8-inch through 1-inch	15	EA	\$ 1,700.00	\$ 25,500.00	16.00	\$ 27,200.00		\$ -	16.00	\$ 27,200.00	100.00%	B11
B12	Fire Hydrant Assembly	2	EA	\$ 7,000.00	\$ 14,000.00	2.00	\$ 14,000.00		\$ -	2.00	\$ 14,000.00	100.00%	B12
B13	Cut-In and/or Connection Existing System	2	EA	\$ 4,400.00	\$ 8,800.00	2.00	\$ 8,800.00		\$ -	2.00	\$ 8,800.00	100.00%	B13
B14	Crushed Surfacing Base Course	900	TON	\$ 25.00	\$ 22,500.00	1,201.33	\$ 30,033.25		\$ -	1,201.33	\$ 30,033.25	133.48%	B14
B15	Controlled Density Fill (CDF)	5	CY	\$ 120.00	\$ 600.00	0.00	\$ -		\$ -	0.00	\$ -	0.00%	B15
B16	HMA Class 1/2-Inch PG 64-22 Trench Patch	400	TON	\$ 150.00	\$ 60,000.00	510.17	\$ 76,525.50		\$ -	510.17	\$ 76,525.50	127.54%	B16
B17	2-inch HMA Class 1/2-Inch PG 64-22 Overlay	300	TON	\$ 95.00	\$ 28,500.00	297.45	\$ 28,257.75	13.25	\$ 1,258.75	310.70	\$ 29,516.50	103.57%	B17
B18	Planing Bituminous Paving	2,300	SY	\$ 6.00	\$ 13,800.00	2,537.00	\$ 15,222.00		\$ -	2,537.00	\$ 15,222.00	110.30%	B18
B19	Final Saw Cut Existing Asphalt	3,000	LF	\$ 4.00	\$ 12,000.00	2,619.00	\$ 10,476.00		\$ -	2,619.00	\$ 10,476.00	87.30%	B19
B20	Landscape and Surface Restoration	1	LS	\$ 8,500.00	\$ 8,500.00	0.75	\$ 6,375.00	0.25	\$ 2,125.00	1.00	\$ 8,500.00	100.00%	B20
B21	Minor Change	1	FA	\$ 15,000.00	\$ 15,000.00	1.69	\$ 25,282.50	0.15	\$ 2,292.37	1.84	\$ 27,575.27	183.84%	B21
B22	Resolution of Utility Conflicts	1	FA	\$ 10,000.00	\$ 10,000.00	0.00	\$ -		\$ -	0.00	\$ -	0.00%	B22
					\$ 392,515.00		\$ 396,437.40		\$ 6,906.12		\$ 403,343.52		

FIELD DIRECTIVES

	Bow Lake Tank Connection	1	FA	\$ 101,953.33	\$ 101,953.33	1.00	\$ 101,953.33		\$ -	1.00	\$ 101,953.33	
				Estimated Quantities Sch B	\$ 494,468.33		\$ 498,390.73		\$ 6,906.12		\$ 505,296.85	

CO-1 BI #	SCHEDULE B ITEM DESCRIPTION	ESTIMATED CONTRACT QUANTITIES			PREV. APPROVED		TOTAL THIS REQUEST		TOTAL TO DATE			CO-1 BI #	
		BID QTY	UNIT	UNIT PRICE	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT		%
A21	Modify Bid Quantity & Unit Price (Planing Bituminous Paving)	6,500	SY	\$ 6.50	\$ 42,250.00	\$ 10,850.00	\$ 70,525.00		\$ -	10,850.00	\$ 70,525.00	166.92%	A21

Add 60 Days to Contract Time

Schedule A - C.O. Subtotal	\$ 42,250.00	\$ 70,525.00	\$ -	\$ 70,525.00
Less Original A21 Amount	\$ (14,300.00)			
	\$ 27,950.00			
Estimated Quantities Sch B	\$ 494,468.33			
Total Change Orders	\$522,418.33			

10% Tax and 5% Retainage calculated from Subtotal

Current Contract Amount	\$2,223,468.33	Subtotal	\$2,227,527.30	Subtotal	\$56,635.90	Subtotal	\$2,284,263.20	102.73%
WSST 10%	\$222,346.83	WSST 10%	\$222,762.73	WSST 10%	\$5,663.59	WSST 10%	\$228,426.32	
Total	\$2,445,815.16	Total	\$2,450,290.03	Total	\$62,299.49	Total	\$2,512,689.52	
Less 5%	\$-111,173.42	Less 5%	\$-111,381.37	Less 5%	\$-2,831.80	Less 5%	\$-114,213.16	
Grand Total	\$2,334,641.74	Grand Total	\$2,339,008.66	Grand Total	\$59,467.69	Grand Total	\$2,398,476.36	



Agenda Item No.: 5.1

Agenda Date: 9/25/18

Reviewed By: [Signature]

Subject: Authorize C.O. #2 and Accept as Complete Construction Contract #17-70-19
Project 17-1 2017 Water System Improvements
Kar-Vel Construction, Inc. (Contractor)

CATEGORY	
<i>Executive</i>	<input type="checkbox"/>
<i>Administrative</i>	<input type="checkbox"/>
<i>Engineering/Operations</i>	<input checked="" type="checkbox"/>

FINANCIAL			
<i>Expenditures?</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
<i>Budgeted?</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
<i>Amount: \$</i>			<i>Not-to Exceed</i>

Attachments:

- 1. Resolution 18-9-25A
- 2. Exhibit A – Final Pay Request No. 11

Comments:

Kar-Vel Construction, Inc. completed the construction of this project per District standards and the District Engineer recommends final acceptance. The General Manager concurs.

The final project construction amount of \$2,284,263.20 plus tax includes the emergency work on S 176th Street.