

CITY OF RAPID CITY CONSTRUCTION CHANGE ORDER # 2 (TWO)
RED ROCK WATER STORAGE RESERVOIR
PROJECT NO.: W03-1184 / CIP 50284
September 11, 2007
ORIGINAL CONTRACT AMOUNT: \$3,490,323.81
CONTRACTOR: HEAVY CONSTRUCTORS, INC

PW092507-05

LINE ITEM	DESCRIPTION	UNIT	CURRENT CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	ADJUSTED QUANTITY	ADJUSTED PRICE	NET CHANGE
1	MOBILIZATION FOR PIPELINE	LS	1.00	\$5,180.14	\$5,180.14	1.00	\$5,180.14	\$0.00
2	MOBILIZATION FOR RESERVOIR	LS	1.00	\$170,544.77	\$170,544.77	1.00	\$170,544.77	\$0.00
3	INCIDENTAL WORK	LS	1.00	\$35,246.92	\$35,246.92	1.00	\$35,246.92	\$0.00
4	CONSTRUCTION STAKING (BY CONTRACTOR)	LS	1.00	\$8,752.82	\$8,752.82	1.00	\$8,752.82	\$0.00
5	TRAFFIC CONTROL PLAN	LS	1.00	\$561.08	\$561.08	1.00	\$561.08	\$0.00
6	TRAFFIC CONTROL	LS	1.00	\$2,693.19	\$2,693.19	1.00	\$2,693.19	\$0.00
7	TEMPORARY EROSION CONTROL PLAN	LS	1.00	\$6,204.70	\$6,204.70	1.00	\$6,204.70	\$0.00
8	CLEARING & GRUBBING	LS	1.00	\$123,263.63	\$123,263.63	1.00	\$123,263.63	\$0.00
9	4" PVC WATER SERVICE LINE	LF	87.00	\$40.45	\$3,519.15	87.00	\$3,519.15	\$0.00
10	6" PVC WATER SERVICE LINE	LF	139.00	\$42.16	\$5,860.24	139.00	\$5,860.24	\$0.00
11	6" PVC PERFORATED DRAIN PIPE	LF	528.00	\$104.89	\$55,381.92	528.00	\$55,381.92	\$0.00
12	4" PVC 45 DEGREE BEND	EA	1.00	\$66.13	\$66.13	1.00	\$66.13	\$0.00
13	4" PVC 22.5 DEGREE BEND	EA	1.00	\$66.13	\$66.13	1.00	\$66.13	\$0.00
14	1" COPPER WATER SERVICE	LF	66.00	\$33.06	\$2,181.96	66.00	\$2,181.96	\$0.00
15	2" COPPER WATER SERVICE	LF	266.00	\$52.35	\$13,925.10	266.00	\$13,925.10	\$0.00
16	6" PVC WATER MAIN	LF	10.00	\$47.94	\$479.40	10.00	\$479.40	\$0.00
17	16" PVC WATER MAIN	LF	687.00	\$54.45	\$37,407.15	687.00	\$37,407.15	\$0.00
18	20" D. I. WATER MAIN	LF	1,105.00	\$96.44	\$106,566.20	1,105.00	\$106,566.20	\$0.00

19	1" TAPPING SADDLE	EA	2.00	\$468.42	\$936.84	2.00	\$936.84	PW092507-05 \$0.00
20	2" TAPPING SADDLE AND CORP STOP	EA	3.00	\$909.28	\$2,727.84	3.00	\$2,727.84	\$0.00
21	1" CURB STOP & BOX	EA	2.00	\$275.54	\$551.08	2.00	\$551.08	\$0.00
22	2" CURB STOP & BOX	EA	3.00	\$468.41	\$1,405.23	3.00	\$1,405.23	\$0.00
23	16"X16"X 6" TEE	EA	2.00	\$1,416.28	\$2,832.56	2.00	\$2,832.56	\$0.00
24	16" 11.25 DEGREE BEND	EA	2.00	\$1,394.23	\$2,788.46	2.00	\$2,788.46	\$0.00
25	16" 22.5 DEGREE BEND	EA	2.00	\$1,394.23	\$2,788.46	2.00	\$2,788.46	\$0.00
26	16" 45 DEGREE BEND	EA	1.00	\$1,394.22	\$1,394.22	1.00	\$1,394.22	\$0.00
27	20" 45 DEGREE BEND	EA	1.00	\$2,248.41	\$2,248.41	1.00	\$2,248.41	\$0.00
28	16" MJ PLUG	EA	1.00	\$865.18	\$865.18	1.00	\$865.18	\$0.00
29	FIRE HYDRANT W/AUX VALVE & LEAD	EA	3.00	\$3,802.45	\$11,407.35	3.00	\$11,407.35	\$0.00
30	CONNECT TO EXISTING WATER MAIN	EA	2.00	\$2,204.32	\$4,408.64	2.00	\$4,408.64	\$0.00
31	METERING PIT MANHOLE (2-INCH)	EA	1.00	\$10,211.49	\$10,211.49	1.00	\$10,211.49	\$0.00
32	METERING PIT MANHOLE	EA	2.00	\$9,368.35	\$18,736.70	2.00	\$18,736.70	\$0.00
33	RELOCATE FIRE HYDRANT & AUX VALVE	EA	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
34	SALVAGE FIRE HYDRANT & AUX VALVE	EA	1.00	\$1,030.52	\$1,030.52	1.00	\$1,030.52	\$0.00
35	16" D.I. WATER MAIN	LF	1,132.00	\$67.23	\$76,104.36	1,132.00	\$76,104.36	\$0.00
36	WATER SERVICE NEW CONNECTION	EA	4.00	\$303.10	\$1,212.40	4.00	\$1,212.40	\$0.00
37	5' MANHOLE W/AIR RELEASE VALVE	EA	2.00	\$10,470.50	\$20,941.00	2.00	\$20,941.00	\$0.00
38	12" GATE VALVE & BOX	EA	1.00	\$2,534.96	\$2,534.96	1.00	\$2,534.96	\$0.00
39	6" D.I. WATER MAIN	LF	40.00	\$47.39	\$1,895.60	40.00	\$1,895.60	\$0.00
40	20"X16" MJ REDUCER	EA	1.00	\$2,204.32	\$2,204.32	1.00	\$2,204.32	\$0.00
41	20" 11.25 DEGREE BEND	EA	2.00	\$2,204.31	\$4,408.62	2.00	\$4,408.62	\$0.00

42	20" 22.5 DEGREE BEND	EA	2.00	\$2,204.32	\$4,408.64	2.00	\$4,408.64	PW092507-05 \$0.00
43	16" GATE VALVE W/BOX	EA	4.00	\$6,860.93	\$27,443.72	4.00	\$27,443.72	\$0.00
44	2" FROSTPROOF YARD HYDRANT	EA	2.00	\$2,479.85	\$4,959.70	2.00	\$4,959.70	\$0.00
45	1" FROSTPROOF YARD HYDRANT	EA	3.00	\$1,526.49	\$4,579.47	3.00	\$4,579.47	\$0.00
46	3.3 MGAL RESERVOIR (SPECIFY TYPE - SEE NOTE BELOW)*	LS	1.00	\$1,752,176.59	\$1,752,176.59	1.00	\$1,752,176.59	\$0.00
47	GEOSYNTHETIC LINER	SY	2,350.00	\$7.23	\$16,990.50	2,350.00	\$16,990.50	\$0.00
48	VALVE VAULT	LS	1.00	\$179,332.69	\$179,332.69	1.00	\$179,332.69	\$0.00
49	SITE SIGNAGE	EA	13.00	\$244.70	\$3,181.10	13.00	\$3,181.10	\$0.00
50	ROCK EXCAVATION (TRENCH)	CY	700.00	\$61.22	\$42,854.00	700.00	\$42,854.00	\$0.00
51	TYPE II FOUNDATION MATERIAL	T	150.00	\$18.46	\$2,769.00	150.00	\$2,769.00	\$0.00
52	CONTRACTOR SUPPLIED DENSITY TESTS	EA	400.00	\$22.04	\$8,816.00	400.00	\$8,816.00	\$0.00
53	EXCAVATION, UNCLASSIFIED	CY	1,200.00	\$10.53	\$12,636.00	1,200.00	\$12,636.00	\$0.00
54	AASHTO T-180 SOIL TEST	EA	6.00	\$165.32	\$991.92	6.00	\$991.92	\$0.00
55	EARTHWORK/ROCK/GRADING (TANK & PARKING AREA)	LS	1.00	\$156,934.75	\$156,934.75	1.00	\$156,934.75	\$0.00
56	TOPSOIL, STOCKPILE OR IMPORT/REPLACE	CY	1,200.00	\$18.19	\$21,828.00	1,200.00	\$21,828.00	\$0.00
57	REMOVE & SALVAGE BARBED WIRE FENCE	LF	1,090.00	\$0.34	\$370.60	1,090.00	\$370.60	\$0.00
58	REMOVE CONCRETE CURB AND GUTTER	LF	34.00	\$9.09	\$309.06	34.00	\$309.06	\$0.00
59	3/4" AGGREGATE BASE COURSE	T	975.00	\$21.49	\$20,952.75	975.00	\$20,952.75	\$0.00
60	ASPHALT COMPACTION TESTS	EA	10.00	\$22.04	\$220.40	10.00	\$220.40	\$0.00
61	ASPHALT CONCRETE, CLASS G, TYPE 1	T	535.00	\$83.94	\$44,907.90	535.00	\$44,907.90	\$0.00
62	BITUMINOUS TACK COAT	GAL	160.00	\$5.05	\$808.00	160.00	\$808.00	\$0.00
63	CONCRETE APPROACH PAVEMENT, REINFORCED, 6"	SY	23.00	\$60.62	\$1,394.26	23.00	\$1,394.26	\$0.00
64	CONCRETE "P6" GUTTER	LF	18.00	\$36.37	\$654.66	18.00	\$654.66	\$0.00

65	CONCRETE CURB & GUTTER, TYPE B66	LF	16.00	\$36.37	\$581.92	16.00	\$581.92	PW092507-05 \$0.00
66	CONCRETE TEST SET	EA	55.00	\$176.35	\$9,699.25	55.00	\$9,699.25	\$0.00
67	18" RCP, CLASS III	LF	50.00	\$57.86	\$2,893.00	50.00	\$2,893.00	\$0.00
68	18" RCP FLARED END	EA	2.00	\$732.94	\$1,465.88	2.00	\$1,465.88	\$0.00
69	CONCRETE HEADWALL	EA	1.00	\$4,733.77	\$4,733.77	1.00	\$4,733.77	\$0.00
70	CLASS 2 RIPRAP, W/BEDDING	SY	52.00	\$67.95	\$3,533.40	52.00	\$3,533.40	\$0.00
71	12" DIAMETER EROSION CONTROL, WATTLES	LF	320.00	\$5.84	\$1,868.80	320.00	\$1,868.80	\$0.00
72	EROSION CONTROL, SILT FENCE, WATTLES OR COMPOST BERMS	LF	1,800.00	\$3.59	\$6,462.00	1,800.00	\$6,462.00	\$0.00
73	EROSION CONTROL, HI-VELOCITY EXCELSIOR BLANKET	SY	6,000.00	\$3.20	\$19,200.00	6,000.00	\$19,200.00	\$0.00
74	REPAIR SILT FENCE/COMPOST BERMS/WATTLES	LF	800.00	\$1.40	\$1,120.00	800.00	\$1,120.00	\$0.00
75	REMOVE SILT FENCE/COMPOST BERMS/WATTLES	LF	1,800.00	\$0.95	\$1,710.00	1,800.00	\$1,710.00	\$0.00
76	SEEDING, FERTILIZING, MULCHING,	AC	5.00	\$11,008.37	\$55,041.85	5.00	\$55,041.85	\$0.00
77	IRRIGATION SYSTEM, TEMPORARY	LS	1.00	\$11,221.59	\$11,221.59	1.00	\$11,221.59	\$0.00
78	TEMPORARY FENCE, TYPE 1A	LF	1,550.00	\$1.12	\$1,736.00	1,550.00	\$1,736.00	\$0.00
79	F&I 4 STRAND BARBED WIRE FENCE	LF	1,443.00	\$1.68	\$2,424.24	1,443.00	\$2,424.24	\$0.00
80	2 - POST BRACE PANEL	EA	28.00	\$168.32	\$4,712.96	28.00	\$4,712.96	\$0.00
81	5' WROUGHT IRON FENCE	LF	44.00	\$112.22	\$4,937.68	44.00	\$4,937.68	\$0.00
82	10' WROUGHT IRON GATE	EA	2.00	\$1,795.45	\$3,590.90	2.00	\$3,590.90	\$0.00
83	8' COLORED CHAIN LINK FENCE AND GATES	LF	1,000.00	\$43.82	\$43,820.00	1,000.00	\$43,820.00	\$0.00
84	10' COLORED CHAIN LINK FENCE AND GATES	LF	242.00	\$60.65	\$14,677.30	242.00	\$14,677.30	\$0.00
85	SPLIT POST AND 2 RAIL WOOD FENCE	LF	257.00	\$6.06	\$1,557.42	257.00	\$1,557.42	\$0.00
86	LANDSCAPING	LS	1.00	\$35,703.33	\$35,703.33	1.00	\$35,703.33	\$0.00
87	SITE SECURITY	LS	1.00	\$41,284.19	\$41,284.19	1.00	\$41,284.19	\$0.00

88	IRRIGATION SYSTEM, PERMANENT	LS	1.00	\$14,211.01	\$14,211.01	1.00	\$14,211.01	PW092507-05 \$0.00
89	ELECTRICAL	LS	1.00	\$122,848.22	\$122,848.22	1.00	\$122,848.22	\$0.00
90	RESIDENT ENGINEER'S CONSTRUCTION TRAILER	EA	1.00	\$18,234.52	\$18,234.52	1.00	\$18,234.52	\$0.00
	Change Order No.: 1							
91	Vandal-Resistant Vents	LS	1.00	\$9,649.09	\$9,649.09	1.00	\$9,649.09	\$0.00
92	Offset Landings for reservoir ladders	LS	1.00	\$6,750.79	\$6,750.79	1.00	\$6,750.79	\$0.00
93	Dispose of stumps and root debris	LS	1.00	\$5,214.11	\$5,214.11	1.00	\$5,214.11	\$0.00
94	Bid Item 57 - REMOVE & SALVAGE BARBED WIRE FENCE remove funding source 933 & 934	LF	-1,090.00	\$0.34	(\$370.60)	-1,090.00	(\$370.60)	\$0.00
95	Bid Item 57 - REMOVE & SALVAGE BARBED WIRE FENCE change funding source to 805 (SRF)	LF	1,090.00	\$0.34	\$370.60	1,090.00	\$370.60	\$0.00
96	Bid Item 77 - IRRIGATION SYSTEM, TEMPORARY remove funding source 933 & 934	LS	-1.00	\$11,221.59	(\$11,221.59)	-1.00	(\$11,221.59)	\$0.00
97	Bid Item 77 - IRRIGATION SYSTEM, TEMPORARY change funding source to 805	LS	1.00	\$11,221.59	\$11,221.59	1.00	\$11,221.59	\$0.00
	Change Order No.: 2							
98	RFP-05 F&I non-woven geotextile fabric beneath tank slab	LS	0.00	\$3,509.89	\$0.00	1.00	\$3,509.89	\$3,509.89
99	RFP-06 F&I misc. Metalwork: steel handrails for steps and valve vault entrance, valve sump pit	LS	0.00	\$3,705.00	\$0.00	1.00	\$3,705.00	\$3,705.00
100	RFP-08 Delete external alarm horns and beacons	LS	0.00	(\$670.10)	\$0.00	1.00	(\$670.10)	(\$670.10)
101	RFP-09 Install Owner furnished chlorine analyzer in lieu of Contractor furnished item	LS	0.00	(\$1,605.61)	\$0.00	1.00	(\$1,605.61)	(\$1,605.61)
102	RFP-010 F&I stainless steel hardware for reservoir hatches	LS	0.00	\$996.45	\$0.00	1.00	\$996.45	\$996.45
TOTAL					\$3,511,937.80		\$3,517,873.43	\$5,935.63

C.C.O. HISTORY INCREASE/(DECREASE)		PRIOR ADJUSTED CONTRACT PRICE :	\$3,511,937.80
CCO #1	\$21,613.99	NET INCREASE/(DECREASE):	\$5,935.63
CCO #2	\$5,935.63	ADJUSTED CONTRACT PRICE:	\$3,517,873.43
CCO #3	\$0.00	CHANGE TO DATE:	\$27,549.62

CONTRACTOR: HEAVY CONSTRUCTORS, INC.		P.O. Box 3239, Rapid City, SD 57709	DATE
PROJECT MANAGER: STACEY TITUS, P.E.			DATE
CITY ENGINEER: ROBERT ELLIS			DATE
MAYOR: ALAN HANKS			DATE
FINANCE: JAMES PRESTON			DATE
CONTRACT TIME CHANGE +/-: plus 2 days		NEW CONTRACT TIME:	<u>November 6, 2007</u>

City Staff recommends approval of Change Order # 2 to Heavy Construction for an increase of \$5,935.63 based on unit pricing with the following appropriation:

Initial Funding	\$0.00	\$3,409,858.08	\$40,232.87	\$40,232.87	\$3,490,323.81
Fund Type		SRF Loan	Water	Water	
Fund		0496	0602	0602	
Department		0805	0933	0934	
Line Item		4381	4381	4381	
CCO #1 One (funding changes)		\$11,592.19	(\$5,796.10)	(\$5,796.09)	\$0.00
CCO #1 One (new items)		\$21,613.99			\$21,613.99
CCO #2 Two		\$5,935.63			\$5,935.63
Adjusted Funding	\$0.00	\$3,448,999.89	\$34,436.77	\$34,436.78	\$3,517,873.43

CITY OF RAPID CITY CONSTRUCTION CHANGE ORDER # 2 (TWO)**RED ROCK WATER STORAGE RESERVOIR****PROJECT NO.: W03-1184 / CIP 50284****September 11, 2007****ORIGINAL CONTRACT AMOUNT: \$3,490,323.81****CONTRACTOR: HEAVY CONSTRUCTORS, INC**

LINE ITEM	DESCRIPTION	REASON FOR CHANGE
98	RFP-05 F&I non-woven geotextile fabric beneath tank slab	Furnish and Install 2,300 square yards of non-woven geotextile fabric over the surface of 30-mil PVC liner (beneath tank slab). The geotextile material was recommended by the manufacturer of the PVC liner, to allow use of earthwork equipment on the liner
99	RFP-06 F&I misc. Metalwork: steel handrails for steps and valve vault entrance, valve sump pit	Furnish and install miscellaneous metalwork as follows: 1) Steel handrailing on steps to top of tank. (required per RC Building Permit comments). 2) Handrailing on entrance curb into valve vault (requested by RC Water Department for better access into vau
100	RFP-08 Delete external alarm horns and beacons	Delete external alarm horns and beacons at tank site. Delete one mounting pole for antenna (per RFI-02 response). External alarms and beacons are not required at tank site, as alarm system responds back to master control panel at Water Treatment Plant. H
101	RFP-09 Install Owner furnished chlorine analyzer in lieu of Contractor furnished item	Install Owner-furnished chlorine residual analyzer in lieu of Contractor furnishing and installing the analyzer specified in the contract. This was requested by City Water Department so analyzer at Red Rocks would be compatible with other equipment being
102	RFP-010 F&I stainless steel hardware for reservoir hatches	Provide stainless steel hardware for metal hatches into reservoir. Revision is necessary to provide greater level of corrosion-resistance for hardware installed in a chlorine environment. \$996.45

PREPARED BY: _____

DATE: _____