

CITY OF RAPID CITY CONSTRUCTION CHANGE ORDER #01
NORTHRIDGE WATER BOOSTER STATION
PROJECT NO. W10-1898 / CIP NO. 50834
October 10, 2011
ORIGINAL CONTRACT AMOUNT: \$648,785.78
CONTRACTOR: R.C.S. CONSTRUCTION, INC.

LINE ITEM	DESCRIPTION	UNIT	CURRENT CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	ADJUSTED QUANTITY	ADJUSTED PRICE	NET CHANGE	ITEM NO.
1	Mobilization	LS	1.00	\$15,000.00	\$15,000.00	1.00	\$15,000.00	\$0.00	1
2	Incidental	LS	1.00	\$2,000.00	\$2,000.00	1.00	\$2,000.00	\$0.00	2
3	Aashto T-180 Soil Test	EA	3.00	\$250.00	\$750.00	3.00	\$750.00	\$0.00	3
4	Construction Staking	LS	1.00	\$6,000.00	\$6,000.00	1.00	\$6,000.00	\$0.00	4
5	Aggregate Base Course	TON	22.00	\$18.00	\$396.00	22.00	\$396.00	\$0.00	5
6	AC, Class G, Type 2 Pg64-22	TON	20.00	\$220.00	\$4,400.00	20.00	\$4,400.00	\$0.00	6
7	Remove Concrete Curb & Gutter	LF	36.00	\$8.00	\$288.00	36.00	\$288.00	\$0.00	7
8	Remove PCC Sidewalk	SF	152.00	\$5.00	\$760.00	152.00	\$760.00	\$0.00	8
9	Reinforced	SY	32.00	\$51.00	\$1,632.00	32.00	\$1,632.00	\$0.00	9
10	Concrete Sidewalk, 6" Reinforced	SF	152.00	\$5.70	\$866.40	152.00	\$866.40	\$0.00	10
11	Concrete Type C Retaining Wall (2-4')	LF	104.00	\$77.00	\$8,008.00	104.00	\$8,008.00	\$0.00	11
12	Grading)	LS	1.00	\$2,300.00	\$2,300.00	1.00	\$2,300.00	\$0.00	12
13	Private Utility Trench	LF	690.00	\$8.00	\$5,520.00	690.00	\$5,520.00	\$0.00	13
14	Seeding, Fertilizing, & Mulching	SY	366.67	\$1.70	\$623.34	366.67	\$623.34	\$0.00	14
15	Sodding	SY	423.56	\$9.00	\$3,812.04	423.56	\$3,812.04	\$0.00	15
16	Topsoil, Place	CY	100.00	\$20.00	\$2,000.00	100.00	\$2,000.00	\$0.00	16
17	12" Wattles	LF	300.00	\$4.00	\$1,200.00	0.00	\$0.00	(\$1,200.00)	17
18	Certa Lok	LF	30.00	\$85.00	\$2,550.00	30.00	\$2,550.00	\$0.00	18
19	Certa Lok	LF	110.00	\$63.00	\$6,930.00	110.00	\$6,930.00	\$0.00	19
20	12" 11.25 Degree Bend	EA	4.00	\$1,000.00	\$4,000.00	4.00	\$4,000.00	\$0.00	20
21	12" 90 Degree Bend	1.00	1.00	\$850.00	\$850.00	1.00	\$850.00	\$0.00	21
22	12" X 12" Cross	EA	1.00	\$2,200.00	\$2,200.00	1.00	\$2,200.00	\$0.00	22
23	12" Transitional Coupling	EA	3.00	\$900.00	\$2,700.00	3.00	\$2,700.00	\$0.00	23
24	12" X 6" Reducer	EA	1.00	\$750.00	\$750.00	1.00	\$750.00	\$0.00	24
25	14" X 12" Reducer	EA	1.00	\$900.00	\$900.00	1.00	\$900.00	\$0.00	25
26	12" X 12" X 6" Tee	EA	1.00	\$1,300.00	\$1,300.00	1.00	\$1,300.00	\$0.00	26
27	12" Gate Valve W/Box	EA	1.00	\$3,400.00	\$3,400.00	1.00	\$3,400.00	\$0.00	27
28	Lead	EA	1.00	\$4,300.00	\$4,300.00	1.00	\$4,300.00	\$0.00	28
29	Abandon Water Service	EA	1.00	\$600.00	\$600.00	1.00	\$600.00	\$0.00	29
30	Reconnect Water Service	EA	1.00	\$1,700.00	\$1,700.00	1.00	\$1,700.00	\$0.00	30
31	Irrigation System	LS	1.00	\$3,400.00	\$3,400.00	1.00	\$3,400.00	\$0.00	31
32	8" Pressure Reducing Valve	EA	1.00	\$3,300.00	\$3,300.00	1.00	\$3,300.00	\$0.00	32
33	4" Pressure Reducing Valve	EA	1.00	\$2,100.00	\$2,100.00	1.00	\$2,100.00	\$0.00	33
34	4" Surge Anticipator Valve	EA	2.00	\$4,075.00	\$8,150.00	2.00	\$8,150.00	\$0.00	34
35	Pump House	LS	1.00	\$166,000.00	\$166,000.00	1.00	\$166,000.00	\$0.00	35

LINE ITEM	DESCRIPTION	UNIT	CURRENT CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	ADJUSTED QUANTITY	ADJUSTED PRICE	NET CHANGE	ITEM NO.
36	Pump/Motor Assembly	LS	1.00	\$28,205.00	\$28,205.00	1.00	\$28,205.00	\$0.00	36
37	Building Line)	LS	1.00	\$64,000.00	\$64,000.00	1.00	\$64,000.00	\$0.00	37
38	Start Up Allowance	LS	1.00	\$20,000.00	\$20,000.00	1.00	\$20,000.00	\$0.00	38
39	Electric Service Utility Allowance	LS	1.00	\$7,830.00	\$7,830.00	1.00	\$7,830.00	\$0.00	39
40	Allowance	LS	1.00	\$58,465.00	\$58,465.00	1.00	\$58,465.00	\$0.00	40
41	Electrical	LS	1.00	\$153,200.00	\$153,200.00	1.00	\$153,200.00	\$0.00	41
42	HVAC & Domestic Plumbing	LS	1.00	\$46,400.00	\$46,400.00	1.00	\$46,400.00	\$0.00	42
	CHANGE ORDER #01								
43	Flange Isolation Kits (RFP #1)	LS	0.00	\$4,126.00	\$0.00	1.00	\$4,126.00	\$4,126.00	43
44	Temporary Resident's Service Tie-in (RFP #2)	LS	0.00	\$2,360.00	\$0.00	1.00	\$2,360.00	\$2,360.00	44
45	Resident's irrigation & fence relocation (RFP #3)	LS	0.00	\$1,547.00	\$0.00	1.00	\$1,547.00	\$1,547.00	45
46	Sewer service tap and connection to main (RFP #5)	LS	0.00	\$4,900.00	\$0.00	1.00	\$4,900.00	\$4,900.00	46
47	Building Shingle Warranty Period (RFP #6)	LS	0.00	(\$1,163.00)	\$0.00	1.00	(\$1,163.00)	(\$1,163.00)	47
48	Surge Anticipator Valve Sensing Lines (RFP #9)	LS	0.00	\$1,775.00	\$0.00	1.00	\$1,775.00	\$1,775.00	48
49	Pipe Apputanencas for ease of maintenence (RFP #10)	LS	0.00	\$993.00	\$0.00	1.00	\$993.00	\$993.00	49
50	Pipe Restraints (RFP # 11-2 & #11-3)	LS	0.00	\$750.00	\$0.00	1.00	\$750.00	\$750.00	50
51	Pipe Supports for surge anticipator valve assembly (RFP #12)	LS	0.00	\$622.00	\$0.00	1.00	\$622.00	\$622.00	51
52	9" Errosion Control Wattles (RFP #13)	LF	0.00	\$3.30	\$0.00	280.00	\$924.00	\$924.00	52
53	12" Gate Valve Installation (RFP #14-1)	LS	0.00	\$4,023.00	\$0.00	1.00	\$4,023.00	\$4,023.00	53
54	1" Water Service Installation (RFP #14-2)	LS	0.00	\$793.00	\$0.00	1.00	\$793.00	\$793.00	54
	TOTAL				\$648,785.78		\$669,235.78	\$20,450.00	

C.C.O. HISTORY INCREASE/(DECREASE)		PRIOR ADJUSTED CONTRACT PRICE :	\$648,785.78
CCO #1	\$20,450.00	NET INCREASE/(DECREASE):	\$20,450.00
	\$0.00	ADJUSTED CONTRACT PRICE:	\$669,235.78
	\$0.00	CHANGE TO DATE:	\$20,450.00

Jeffrey Stuetgen % RCS 9/30/11

CONTRACTOR: R.C.S. CONSTRUCTION, INC. 342-3787, PO Box 9337, Rapid City, SD 57709-9337 DATE

Allan Schreier 10-4-11

CONSULTANT: ALLAN SCHREIER, P.E. - DREAM DESIGN INC. DATE

Allan Schreier 10-3-11

PROJECT MANAGER: STACEY TITUS, P.E. DATE

Stacey Titus 10/3/11

CITY ENGINEER: DALE TECH, P.E. / L.S. DATE

MAYOR: SAM KOOIKER DATE

FINANCE: PAULINE SUMPTION DATE

CONTRACT TIME CHANGE +/-: 52 working days NEW CONTRACT TIME: October 26, 2011

City Staff recommends approval of this Change Order #01 to **R.C.S. CONSTRUCTION, INC.** for an increase of \$20,450.00 based on unit pricing with the following appropriation:

Initial Funding	\$0.00	\$648,785.78	\$0.00	\$0.00	\$648,785.78
Fund Type	Sanitary Sewer	Water	Streets	Drainage	
Department	833 / 834	0934	8910	8911	
Line Item	4380	4381	4370	4371	
Fund	0604	0602	0505	0505	
CCO #1	\$0.00	\$20,450.00	\$0.00	\$0.00	\$20,450.00
					\$0.00
					\$0.00
Adjusted Funding	\$0.00	\$669,235.78	\$0.00	\$0.00	\$669,235.78

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NORTHRIDGE WATER BOOSTER STATION
PROJECT NO. W10-1898 / CIP NO. 50834
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ORIGINAL CONTRACT AMOUNT: \$648,785.78
CONTRACTOR: R.C.S. CONSTRUCTION, INC.

LINE ITEM	DESCRIPTION	REASON FOR CHANGE
17	12" Wattles	The project plans and specifications required 12" Erosion Control Wattles. 9" Erosion Control Wattles were installed. This bid item has been removed and a new bid item for 9" Erosion Control Wattles has been added.
43	Flange Isolation Kits (RFP #1)	Flange insulation kits are needed for the cathodic protection system of buried pipes and are added to the project by this change order item. Insulation kits were not specified in the original bid documents by the cathodic protection consultant.
44	Temporary Resident's Service Tie-in (RFP #2)	A temporary service tie in was needed to maintain potable water service to a residence in the project area. The coordination between multiple water improvement projects are facilitated by the temporary water service tie in.
45	Resident's irrigation & fence relocation (RFP #3)	The original project topographic surveys did not indicate the presence of an underground sprinkler system or a fence encroaching on city property. To facilitate the project construction, the irrigation system and fence were required to be removed and reset.
46	Sewer service tap and connection to main (RFP #5)	The original project plans indicated a sewer service had been stubbed out to the water booster station facility. The service was not stubbed out and installing a new sewer service was required to facilitate the project construction.
47	Building Shingle Warranty Period (RFP #6)	The project plans and specifications required 300 lb. shingles for the booster station building. The shingle supplier inadvertently delivered 235 lb. shingles to the project site and these shingles were installed on the roof. In lieu of removing the 235 lb. shingles, a deduct has been accepted for the difference in the value of the shingles.
48	Surge Anticipator Valve Sensing Lines (RFP #9)	Sensing lines are needed for the Surge Anticipator Valves to operate correctly. The City requested additional maintenance piping appurtenances be installed on the sensing lines.
49	Pipe Appurtenances for ease of maintenace (RFP #10)	Additional minor shutoff valves and miscellaneous piping were added to facilitate maintenance of other equipment necessary for the operation of the booster station. In total, additional piping was added in six locations.
50	Pipe Restraints (RFP # 11-2 & #11-3)	The type of restraints required for securing piping in the bulding was clarified and revised. Four restraints were deleted and two more substantial restraints were added. The cost increase reflects the increased cost of materials for pipe restraints.
51	Pipe Supports for surge anticipator valve assembly (RFP #12)	The project plans require pipe supports at pipe discharge headers, however the pipe supports required in this particular installation are non-typical. This change order item compensates the contractor for work and materials considered additional work beyond the typical pipe support system.
52	9" Errosion Control Wattles (RFP #13)	The project plans and specifications required 12" Erosion Control Wattles. 9" Erosion Control Wattles were installed and a reduced unit price for was provided by the contractor in place of removing and installing the correct size wattles. (Refer to Item 17 above)
53	12" Gate Valve Installation (RFP #14-1)	Sequencing between the Northridge Booster Station, Transmission Main, and Water Storage Reservoir projects requires the installation of a 12" valve to isolate the booster station in order to maintain residential water service and in the long term assist City water Operations by providing better system control.

LINE ITEM	DESCRIPTION	REASON FOR CHANGE
54	1" Water Service Installation (RFP #14-2)	In order to maintain residential water service a permanent 1" water service needed to be extended to a water main on the Northridge Booster Station site.
	Contract Time Extension for RFPs # 2, 5, 7 & 14-1.	The original completion date was August 12, 2011. The contract time is extended for work items that were incorporated into the project that affected the timeline of the project completion. RFP # 2 required the addition of 3 days for interruption to the progress of work, and to install new temporary water service. RFP # 5 required the addition of 3 days for interruption to the progress of work, and to install new six inch sewer service. RFP # 7 delayed the progress of work and required the addition of 21 working days to fabricate, deliver, and install flanged fittings necessary to adapt to pump flanges. RFP # 14-1 for the installation of a 12" gate valve is a critical path element and several project components are not able to proceed until the valve has been installed. These items include a 1" water service, testing flushing mains, concrete paving, colored concrete finishes on walls and foundations, irrigation, sod, seeding, surface restoration, and final cleanup. These items are agreed to take 25 working days to complete. The final completion date based on a total of 52 additional working days shall be October 26, 2011.

PREPARED BY: Alan Schrier
 Alan Schrier, Dream Design

DATE: September 29, 2011

FUNDING TYPE		Sanitary Sewer		Water		Streets		Drainage		
COST CENTER		833 / 834		0934		8910		8911		
LINE ITEM		4380		4381		4370		4371		
FUND		0604		0602		0505		0505		
ITEM NO.	DESCRIPTION OF ITEM	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	
1	Mobilization	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
2	Incidental	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
3	Aashto T-180 Soil Test	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
4	Construction Staking	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
5	Aggregate Base Course	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
6	AC, Class G, Type 2 Pg64-22	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
7	Remove Concrete Curb & Gutter	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
8	Remove PCC Sidewalk	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
9	PCC Approach Pavement, 6" Reinfor	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
10	Concrete Sidewalk, 6" Reinforced	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
11	Concrete Type C Retaining Wall (2-4	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
12	Excavation, Unclassified (Site Gradin	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
13	Private Utility Trench	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
14	Seeding, Fertilizing, & Mulching	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
15	Sodding	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
16	Topsoil, Place	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
17	12" Wattles	0.00	0%	-1,200.00	100%	0.00	0%	0.00	0%	100%
18	12" PVC Water Main C-900 Dr 14, Ce	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
19	12" PVC Water Main C-900 Dr 18, Ce	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
20	12" 11.25 Degree Bend	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
21	12" 90 Degree Bend	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
22	12" X 12" Cross	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
23	12" Transitional Coupling	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
24	12" X 6" Reducer	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
25	14" X 12" Reducer	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
26	12" X 12" X 6" Tee	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
27	12" Gate Valve W/Box	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
28	Fire Hydrant W/Aux Valve, Box & Lea	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
29	Abandon Water Service	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
30	Reconnect Water Service	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
31	Irrigation System	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
32	8" Pressure Reducing Valve	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%

33	4" Pressure Reducing Valve	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
34	4" Surge Anticipator Valve	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
35	Pump House	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
36	Pump/Motor Assembly	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
37	Process Mechanical (To 3' Outside B	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
38	Start Up Allowance	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
39	Electric Service Utiliy Allowance	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
40	Controls and Instrumentation Allowan	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
41	Electrical	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
42	HVAC & Domestic Plumbing	0.00	0%	0.00	100%	0.00	0%	0.00	0%	100%
	CHANGE ORDER #01									
43	Flange Isolation Kits (RFP #1)	0.00	0%	4,126.00	100%	0.00	0%	0.00	0%	100%
44	Temporary Resident's Service Tie-in (RFP #2)	0.00	0%	2,360.00	100%	0.00	0%	0.00	0%	100%
45	Resident's irrigation & fence relocation (RFP #3)	0.00	0%	1,547.00	100%	0.00	0%	0.00	0%	100%
46	Sewer service tap and connection to main (RFP #5)	0.00	0%	4,900.00	100%	0.00	0%	0.00	0%	100%
47	Building Shingle Warranty Period (RFP #6)	0.00	0%	-1,163.00	100%	0.00	0%	0.00	0%	100%
48	Surge Anticipator Valve Sensing Lines (RFP #9)	0.00	0%	1,775.00	100%	0.00	0%	0.00	0%	100%
49	Pipe Apputanences for ease of maintenace (RFP #10)	0.00	0%	993.00	100%	0.00	0%	0.00	0%	100%
50	Pipe Restraints (RFP # 11-2 & #11-3)	0.00	0%	750.00	100%	0.00	0%	0.00	0%	100%
51	Pipe Supports for surge anticipator va	0.00	0%	622.00	100%	0.00	0%	0.00	0%	100%
52	9" Errosion Control Wattles (RFP #1	0.00	0%	924.00	100%	0.00	0%	0.00	0%	100%
53	12" Gate Valve Installation (RFP #14	0.00	0%	4,023.00	100%	0.00	0%	0.00	0%	100%
54	1" Water Service Installation (RFP #1	0.00	0%	793.00	100%	0.00	0%	0.00	0%	100%
		\$0.00		\$20,450.00		\$0.00		\$0.00		\$20,450.00