

CONTRACT CHANGE ORDER NO. 5

CONTRACT AWARDED BY: Fresno City Council DATE OF AWARD: 7/19/2016
PROJECT: **Phase 2 Regional Transmission Main - Segment A1**
P.O. NO: 71167 PROJECT ID NO: WC00065-RTMA1 BID FILE NO: 3449
CONTRACTOR: **Mountain Cascade, Inc., 555 Exchange Ct Livermore, CA 94550**

The Contractor is hereby requested to make the herein described changes from the Contract Documents or do the following described work not included in the plans and specifications on this contract. NOTE: THIS CHANGE IS NOT EFFECTIVE UNTIL FULLY EXECUTED.

Description of Requested Change:

I. CHANGES TO CONTRACT PLANS AND SPECIFICATIONS

- A. This Change Order No. 5 includes costs associated with: This Change Order No. 5 incorporates: 1) Repair of unknown and unmarked 15" concrete pipe storm drain on Olive, 200 ft. west of Caesar Ave., 2) Excavate around (3) unknown and unmarked utilities at the intersection of Olive and Sierra, 3) Change in shoring methods due to excavating around and supporting traffic control conduit on Olive, 50 ft. east of Ninth St., 4) Excavate around unknown and unmarked utilities on Olive, 100 ft. west of HWY 168 overpass, 5) Repair unknown and unmarked 6" sanitary sewer on Olive, 400 ft. west of Clovis Ave., 6) Additional work to avoid conflict with 12" water main on Olive, 50 ft. east of Minnewawa, 7) Additional concrete and bollards needed for combination air valve located in concrete median at Olive and Helm Ave., 8) Preserve 120 ft. of curb and gutter on Olive Ave. between Garden and Winery, 9) Additional fabrication costs for redesign of RTM pipeline to clear 12" sanitary sewer, 10) Additional surveying due to plan revisions, 11) Repair unknown and unmarked 6" sanitary sewer on Olive, 100 ft. east of Jackson Ave., 12) Repair unknown and unmarked 6" sanitary sewer on Olive, 300 ft. west of Winery Ave., 13) Redesign of water main outlet do to conflict with 3" gas main (credit), 14) Furnish and install three combination air valve assemblies, 15) Lower RTM pipeline to avoid 14" steel casing on Olive, 200 ft. east of Villa, 16) Repair traffic signal conduit at Olive and Cedar intersection, 17) Furnish and install advanced detector loops on Olive, 18) Furnish and install plugs and bag for westbound Olive at Chestnut, 19) Acidification and monitoring of discharge water. 20) Furnish and install tamper resistant hex key bolts. 21) Furnish and install eight additional test stations

II. CONTRACT PRICE

- A. This Change Order No. 5 results in a net increase of \$144,094.48 to the contract price.

III. CONTRACT TIME

- B. This Change Order No. 5 does not add any additional days.

STATEMENT OF CONTRACT PRICE

Original Contract Price	\$	28,471,884.00
Approved Cost Change Orders to Date	\$	376,858.88
Cost of this Change Order	\$	144,094.48 See (Pg 4)
Total of all Contract Cost Change Orders including this Change Order	\$	520,953.36
Net percentage change in Contract Price from original Contract Price		1.83%
Revised Contract Price	\$	28,992,837.36

STATEMENT OF CONTRACT TIME

	Calendar Days	Contract Dates
Contract Notice to Proceed		8/29/2016
Calendar Days to Substantial Completion	475	
Calendar Days to Final Completion	500	
Computed Date for Substantial Completion		12/16/2017
Computed Date for Final Completion		1/10/2018
Time Extension Days For Contract		
Time Extension Days This CCO	13	
Total Time Extension Days Previous CCO's	0	
Total Time Extension Days To Date	13	
Excess Inclement Weather Days To Date (Pg 3)	0	
Suspended Work Days To Date	0	
Revised Substantial Completion Date		12/29/2017
Revised Final Completion Date		1/23/2018

We, the undersigned contractor, have given careful consideration to the change proposed and hereby agree, if this proposal is approved, that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefore the price shown above.

Acceptance Date: 4/26/18 Contractor: Mountain Cascade, Inc.

Accepted By: [Signature] Title: Executive Vice President

If the contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to proceeding with the ordered work.

OWNER APPROVAL
Submitted By: [Signature] Recommended By: [Signature] Date: 4/30/2018
Quentin Clark, Construction Manager Martin Wendels, Project Manager
Authorized By: ☐ Interim Assistant Director Date: _____
Approved By: ☐ Public Utilities Director Michael Carbajal Date: _____
Approved By: ☐ City Council Minutes of Meeting Dated: Not required

(Council approval required if change order or total change orders exceed 10 percent of contract price or if individual change order exceeds Fresno City Charter limit or Section 33422 Health and Safety Code for Agency contracts.)

Phase 2 Regional Transmission Main - Segment A1

CONTRACT CHANGE ORDER NO. 5
Change Order Details

Items	Description	Amount	Time
1	COR 006 - During excavation on Olive Ave., 200 ft. west of Caesar Ave. (Sta. 591+50) the Contractor struck and damaged an unknown and unmarked 15" reinforced concrete pipe storm drain that was not shown on the plans. The Contractor removed the damaged portion of the storm drain and replaced it with two new sections of 15" x 8' reinforced concrete pipe.	\$ 1,164.31	0
2	COR 007 - During pipe trench excavation at the intersection of Olive and Sierra (Sta. 519+00 through 518+50), the Contractor encountered three unmarked and unknown utilities that were not shown on the plans. These utilities included one 4" PVC conduit at Sta. 518+82, one 1 1/2" steel conduit at Sta. 518+50, and an existing 24" concrete pipe at Sta. 518+74. Extra work was needed to excavate around the encountered utilities before continuing RTM pipeline installation.	\$ 1,023.21	0
3	COR 020 - During pipe trench excavation, the Contractor encountered an unknown and unmarked steel traffic control conduit on Olive, 50 ft. east of Ninth St. (Sta. 465+69). Due to the location of the steel conduit, the Contractor needed to widen their trench and installed a 12' x 12' x 10' shield with an additional six 8' x 20' steel plates to hold the trench walls due to unstable soil conditions.	\$ 6,301.80	0
4	COR 021 - During pipe trench excavation on Olive Ave., 100 ft. west of the HWY 168 overpass (Sta. 492+33), the Contractor encountered both an 8" and 6" steel casing. Both casings were unknown and unmarked. Additional excavation around the utilities was required before continuing RTM pipeline installation.	\$ 4,892.69	0
5	COR 022 - During pipe trench excavation, the Contractor struck and damaged an unmarked and unknown 6" sanitary sewer on Olive, 400 ft. west of Clovis Ave. (Sta. 633+81). The Contractor repaired the damaged 6" sanitary sewer before resuming excavation for the RTM pipeline.	\$ 5,105.29	0
6	COR 024 - The installation of the CAV at station 612+45 (Olive Ave. 50 feet east of Minnewawa) required the Contractor to install (2) 45 degree bends in order to clear the existing 12" water main running parallel to and directly south of the RTM. Installation of the 45 degree bends required additional excavation in order to go underneath the existing 12" water main.	\$ 1,691.05	0
7	COR 025 - In order to install the CAV at station 571+57 (Olive and Helm Ave.), additional work was required by the Contractor to remove a section of the concrete median in order to complete the installation. Due to the location of the CAV, additional work was performed installing (2) concrete bollards. Additional traffic control was also required to perform the work.	\$ 4,887.58	0
8	COR 026 - 120 ft. of curb and gutter was shown to be removed between Garden and Winery on Olive Ave. (Sta. 536 +40 to 537+60). Instead, the curb and gutter was preserved during excavation of the RTM pipeline, resulting in a credit back to the City.	\$ (2,356.20)	0

9	COR 027 - Revised contract drawings were produced on 11/22/16 for sheet 20 of the plans. Per revision 1 on sheet 20, RTM pipeline pieces 481 and 482 are being replaced by 2-cut elbows pieces in order to clear a 12" sanitary sewer, resulting in additional fabrication costs. There are no additional installation costs.	\$ 14,424.89	0
10	COR 029 - Due to the revisions made to sheets 18,19, and 33 of the plans, additional surveying was needed to stake out new reference points for the installation of the RTM pipeline for revisions associated with Work Change Directives 7.0, 7.1, and 14.	\$ 8,123.54	0
11	COR 030 - During pipe trench excavation, the Contractor struck and damaged an unmarked and unknown 6" sanitary sewer on Olive, 100 ft. east of Jackson Ave. (Sta. 499+98). The Contractor repaired the damaged 6" sanitary sewer before resuming excavation for the RTM pipeline. Additional potholing was also performed for an unmarked and unknown fiber optic found at the same location.	\$ 3,255.55	0
12	COR 031 - During pipe trench excavation, the Contractor struck and damaged an unmarked and unknown 6" sanitary sewer on Olive, 300 ft. west of Winery Ave. (Sta. 542+50). The Contractor repaired the damaged 6" sanitary sewer before resuming excavation for the RTM pipeline.	\$ 1,417.95	0
13	WCD 005 - Revised contract drawings were issued on 1/31/2017 for sheets 24 and 40 of the plans. These revisions include redesign of the 12" water main outlet due to conflict with an existing 3" gas line located at the Olive and Willow intersection. The revisions made to the water main outlet resulted in the removal of approximately 60 ft. of 16" pipe and 20 ft. of 12" pipe. Due to the elimination of pipe, costs resulted in a credit to the City. This credit includes both time and material costs plus the unit price credit for pipe that was not installed.	\$ (36,658.53)	0
14	WCD 7.1 - Revised contract drawings were produced for sheets 18, 19, and 33 of the plans to include a total of three additional combination air valve assemblies. These assemblies include one 4" CAV at Sta. 498+06, one 4" CAV at Sta. 508+70, and one 1" CAV at Sta. 647+75. Costs include additional excavation & surface restoration, installation of the combination air valves, traffic control setup, and material purchases.	\$ 77,447.70	0
15	WCD 011 - During pipe trench excavation on Olive, 200 ft. east of Villa Ave., the Contractor encountered an unmarked and unknown 14" steel carrier pipe for a sanitary sewer located on Olive Ave., 200 ft. east of Villa Ave. (Sta. 602+22). RTM pipe pieces 245 and 246 were moved from Sta. 598+57 to 603+08 to achieve the needed elevation change to cross the 14" steel carrier pipe. The change in elevation, starting at Sta. 603+08, added an additional 2.25 ft. of cut to the Contractor's excavation for 365 LF.	\$ 5,139.83	0
16	WCD 012 - Costs associated with repairing the unmarked and unknown traffic signal conduit that was damaged at the intersection of Olive and Cedar.	\$ 2,117.21	0
17	WCD 013 - Furnish and install two advanced detector loops westbound on Olive Ave., east of Clovis Ave, and two advanced detector loops eastbound on Olive Ave., west of Chestnut. These detector loops are needed by the City and are not shown on the plans.	\$ 6,450.92	0

18	WCD 016 - Furnish and install plugs and bag in the middle signal head for westbound Olive at Chestnut. This was necessary for traffic safety and was not indicated in the bid specifications and plans.	\$ 1,335.90	0
19	WCD 019 - In order to discharge water used during flushing, testing and disinfection of the RTM pipeline, the Fresno Metropolitan Flood Control District (FMFCD) required that all discharge water have a pH level within a range of 6.5 and 9.0. Costs include chemical feed pH adjustment (acidification) and monitoring to ensure discharge water pH was within FMFCD specified range.	\$ 4,725.00	0
20	WCD 020 - Furnish and install tamper resistant hex key bolts at each installed cathodic protection test station. Costs include materials and installation costs.	\$ 5,604.79	0
21	WCD 004 - Furnish and install eight additional monitoring test stations at branch connections.	\$ 28,000.00	
		\$ 144,094.48	0

Note 1: Complete backup information is attached to this Contract Change Order.

Inclement Weather Delay Days

Agreed Inclement Weather Delay Days (IWD)

Month	IWDs	Excess IWDs to be Applied to Contract Time
May-16	0	0
Jun-16	0	0
Jul-16	0	0
Aug-16	0	0
Sep-16	0	0
Oct-16	0	0
Nov-16	0	0
Dec-16	0	0
Jan-17	0	0
Feb-17	0	0
Mar-17	0	0
Apr-17	0	0
May-17	0	0
Jun-17	0	0
Jul-17	0	0
Aug-17	0	0
Sep-17	0	0
Oct-17	0	0
Nov-17	0	0
Dec-17	0	0
Jan-18	0	0
Total Excess IWDs		0