



## DEPARTMENT OF PUBLIC UTILITIES

### CAPITAL IMPROVEMENT PROGRAM

### LARGE CONSTRUCTION CONTRACTS

### CHANGE STATUS REPORT

May 1, 2018  
(Data through April 27, 2018)

Includes data for the following contracted projects:

Friant-Kern Canal Pipeline	WC00038-FKCP	Mountain Cascade Construction Co.
Kings River Pipeline	WC00057-KRP	Garney Construction Co.
Southeast Surface Water Tmt Facility	WC00057-SEWTF	W.M. Lyles Company
Regional Transmission Mains A1	WC00065-RTMFD (Segment A1)	Garney Construction Co.
Regional Transmission Mains A2	WC00065-RTMFD (Segment A2)	Floyd Johnston Construction Co.
Regional Transmission Mains B/C	WC00065-RTMFD (Segments B&C)	Vido Artukovich & Son, Inc.
Recycled Water Transmission Main SW1B	TC00096-SW1B	Garney Construction Co.
Recycled Water Transmission Main SW1C	TC00096-SW1C	Garney Construction Co.
Recycled Water Transmission Main SW1C2	TC00096-SW1C2	Bill Nelson GEC, Inc.

Closed projects (data included in prior reports):

Water Storage Tank T-4	WC00061-TNK04	Mountain Cascade Construction Co.
Recycled Water Transmission Main SW1A	TC00095-SW1A	Floyd Johnston Construction Co.

The Enterprise Accountability and Oversight Act (adopted by City Council on February 26, 2015) and the Construction Management Act (adopted by City Council on May 21, 2015) provide for an Oversight Board to review and evaluate General Fund or Enterprise Capital Projects in excess of \$20 million.

This report summarized construction contract changes for all active Department of Public Utilities (DPU) Capital Improvement Projects valued at \$20 million or greater, and select other significant projects.

Project Name: **Friant-Kern Canal Pipeline Project**  
 Project Number: **WC00038-FKCP**  
 Data Date: **04/30/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$15,157,862	\$14,857,862	500
Approved Contract Change Orders:	\$988,704	\$988,704	96
		6.65%	
Current Contract Value:	\$16,146,566	\$15,846,566	596

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Total</b>			<b>\$988,704</b>	<b>96</b>	<b>(\$204,188)</b>	<b>\$145,000</b>	<b>\$1,510,582</b>	<b>0</b>
<b>Change Order Requests</b>								
COR 014	Change of Material - Rock	Contractor is claiming and change in conditions in regard to subsurface east of Big Dry Creek. Contractor is claiming the rock encountered during excavation in the pipe zone was harder than indicated in the geotechnical report requiring additional effort.					\$454,994	
COR 019	Request for Equitable Adjustments - Loss Production Due to Design Error	There was a design error at the Northeast Surface Water Treatment Facility that required an extensive amount of time to provide a new design to the Contractor. Contractor claims delay as a result of tie-in point to the existing 60-inch pipeline was not as per supplied revised drawings. The existing 60-inch connection point was 5.14 ft to the east and approximately 0.08 ft lower than where it is shown on the revised Sheet 26. The existing 36" connection point on the raw water header is approximately 0.67' higher than where it is shown. Difference in actual location verses locations shown on drawings required review and reassessment original pipe lay drawings.					\$1,055,588	
<b>Requests for Proposal</b>								
None								
<b>Work Change Directives</b>								
None								
<b>Change Orders</b>								
CCO 001	Contract Change Order No. 1	WCD 001 -Excavation on Burrows: Contractor provided labor and equipment to support excavation of burrows per environmental permits. Cost increase of \$54,432.86. RFP 001 -- Tracer Wire Credit: Design Engineer recommended that the tracer wire is no longer needed for this project. Cost credit of \$6,883.00 RFP 002 -- Access Vault Detail: Additional gravel was added to precast manholes as well as sump drain in order to be consistent with all Recharge Fresno Program projects. Cost increase of \$6,233.22. RFP 003 -- Stilling Well Detail: The stilling well utility box at the diversion site was changed to larger configuration as the specified unit was too small. Cost increase of \$339.66. RFP 004 -- Elimination of Pipe Joint Diapers: Contractor provided a credit to modify the exterior pipe joint corrosion protection to use additional depth CLSM backfill in lieu of hand placing cement mortar grout. Cost credit of \$124,397.00	\$54,433 (\$6,883) \$6,233 \$339.66 (\$124,397.00)	0				
CCO 002	Contract Change Order No. 2	COR 001 - This change was initiated by the City to replace lights on the pre-cast building with LED versions and also to eliminate the alarm system which will be covered by a separate contract. \$2,358.71 COR 002 - This change for additional cable was a resultant of RFI 095 when it was determined the length of cable shown on the plans is not of sufficient length. \$9,116.35 COR 004 - This change is associated with all extra work associated with the corrections necessary to bring the fencing of the Leshner Property into agreement with the Leshner MOU including purchase of "split" red cedar posts, removal of previously install red cedar post and replacement with "split" red cedar posts as defined in the Leshner MOU. \$29,822.59 RFP 005 - This change implements grating manufacture Anvil International recommendation for additional welded steel support brackets at the edge of the grating were needed to provide a safe working platform for City workers. \$1,445.90	\$2,358.71 \$9,116.35 \$29,822.59 \$1,445.90	0				

APPROVED AND PENDING CHANGES								
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		RFP 006 - This change adds conduits to provide the necessary connections to support radio communications between the NESWTF and the Friant Kern Canal turnout site. \$1,669.50	\$1,669.50					
		RFP 008 - This change modified the coating on small diameter pipe specials from epoxy to an industry standard asphaltic coating to expedite the fabrication and provide a credit to the City of \$11,068.75	(\$11,068.75)					
		RFP 012 - This change adds small diameter air relief vents in the pipe access manways to provide a long term means to support the City's future maintenance. \$19,757.72	\$19,757.72					
CCO 003	Contract Change Order No. 3	COR 003 - Due to extremely wet winter Garonne Road had to be used for construction access. Construction traffic severely damaged the existing pavement resulting need to repair road. A two inch AC overlay will be used to repair from construction traffic. Cost will be divided 60/40 between the City and Contractor. The City's share is 60%. \$38,700	\$38,700.00	0				
		RFP 011 - This change provides repairs to a section of private road (Foothill Lane and Old Clovis Ave) due to damage by construction. The environmentally permitted construction zone in this area provided insufficient space for the necessary construction activities, and MCI used the private road for access. \$25,500	\$25,500.00					
		RFP 007 - Contract specifications require the development of a paleontological monitoring and mitigation plan for the Project. A plan was prepared and called for on-site paleontological monitoring during certain phases of the Project. Specifications indicated that costs for paleontological monitoring, if required, would be paid by the Owner. \$23,454	\$23,454.00					
		RFP 010 - This change provides modifications to the Foothill Lane roadway replacement design in response to emergency service agencies requirements to include gravel shoulders for passing and a widened roadway section at the Auberry Road intersection. Gravel shoulder will be on one side and 7 feet wide. \$35,486	\$35,486.00					
		WCD 002 - This change provides weather related maintenance required to Foothill Lane temporary road to maintain safe access to residents and emergency responders. \$85,000	\$85,000.00					
		WCD 005 - Additional ventilation equipment was required for confined space entry to allow for inspection of the existing pipe that this project will be tying into. Existing pipeline was installed 10 years ago and has not been used. Contractor provided last-minute equipment for City inspection. \$3,755.50	\$3,755.50					
		WCD 006 - Additional costs associated with necessary changes in construction methods which were required due to inclement weather, including import of prepared cementitious backfill material (in lieu of on-site preparation) and reverse laying of ten 60-inch diameter pipe joints. Work was required to be completed during the wet season in order to meet schedule requirements associated with operation of adjacent Garfield Water District pipeline. \$72,500	\$72,500.00					
CCO 004	Contract Change Order No. 4	COR 007 - CTS Shutdown Equipment Impacts - The associated cost are relative to the ceased and desist order issued by the California Department of Wildlife and Fisheries in conjunction with the US Bureau of Reclamation as a mechanism for the preservation and protection of the California Tiger Salamander. Equipment was left unused during the order.	\$27,000.00					
		WCD 009 - NESWTF Redesign Total - This change is for costs associated with the recent redesign of water supply piping connecting the FKCP to the NESWTF plant. The purpose of the change was to provide the City with flexibility to feed the NESWTF from multiple sources simultaneously for improved water production reliability. WCD 009 supersedes WCD 003 REV1 Procurement of NE Redesign Materials and WCD 004 Procurement of Flow Meter Spool Pieces.	\$493,000.00					

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		<p>COR 009 - Excess inclement weather days. MCI requested a total of 140 Inclement Weather Days (IWDs) through May 03, 2017. Parties agreed that a total of 109 IWDs are valid. Since the contract baseline includes an allowance of 13 IWDs, a total of 96 excess IWDs will be added to the contract time.</p> <p>The June/July 2017 Schedule Update incorporates the 96 excess IWDs as well as accurate activity status data through July 2017 including the time impacts of the contractor's claimed delay events. Both parties agree that the June/July 2017 Schedule Update shows full schedule recovery with 28 days of float.</p> <p>The contractor agrees that the June/July 2017 Schedule Update sets schedule Activity TEST 110- Pressure Test 60" and 42" Pipe to start on or before September 1, 2017. This will provide at least 30 calendar days to complete the activity and effect any necessary leak repairs (i.e. excavation to expose leaks) prior to the start of CTS breeding season on October 1, 2017.</p>	\$0.00	96				
CCO 005	Contract Change Order No. 5	<p>This change includes the items listed below which were negotiated on November 15, 2017 and included as one total cost:</p> <p>COR 005: Contractor requested change due to groundwater and what they claimed is incompetent subgrade to support installation of replacement RCP for the Garfield Water District (GWD) line. Initial installation by Contractor of piping with subgrade backfill (sand) as specified by GWD, failed. Contractor requested and received permission from GWD to remove specified subgrade backfill which had failed and replace with 3/4" crushed rock. Contractor seeking reimbursement for 3/4 crushed rock. Acceptance of this change includes MCI's waiver of all other claims associated with the Notice provided in MCI SL No. 013, Transmittal No. 149, Dated April 14, 2017.</p> <p>COR 008: PCO No. 014: Contractor requesting reimbursement for flooded work area during installation of intake structure in Friant-Kern Canal. Contractor claims storm water releases by USBR into Friant-Kern Canal exceeded 300 CFS. Specification required Contractor to design coffer dam to withstand 300 CFS releases into canal during construction. Contractor contends flows exceed 300 CFS on the date mentioned in PCO No. 14 and flooded the work area.</p> <p>COR 010: This request of change pertains to the presence of groundwater which the Contractor claims is not indicated in the Contract Documents near station 316+00.</p> <p>COR 012: Contractor had mobilized their paving subcontractor, CalValley, to complete paving through Change Order No. 004. CalValley had to demobilize per the request in the last item below.</p> <p>COR 013: Contractor requested extra compensation due to a change in the start date for work in the Friant-Kern Canal.</p> <p>COR 014: Compensation for an unmarked conduit found in the NESWTF zone.</p> <p>COR 011: This change recognizes a changed condition caused by the presence of Tiger Salamander larvae in the work zone. Work was restricted, and additional work was required to build boxes around dewatering pumps such that the larvae would not be harmed.</p> <p>Per Change Order No. 003, COR 003 and RFP 011, the contractor was authorized to repair private access roads (Old Clovis and Garonne Avenue) within or adjacent to the construction zone that have deteriorated during construction. The City is in the process of obtaining a waiver/release from the impacted Foothill residents authorizing the repairs and indemnifying the City and MCI from any further road related damage claims. However, the residents intend to make additional road repairs beyond what the City and MCI have agreed to do. This change modifies the scope of work by directing MCI to provide a single \$90,000 remittance to the residents' escrow account as named in the waiver/release documents and to not perform any remedial work as previously required. Once the \$90,000 remittance is made, MCI can bill the City \$65,000 as authorized by CCO 003.</p>	<p>\$0.00</p> <p>\$14,250.00</p> <p>\$1,773.00</p>					

APPROVED AND PENDING CHANGES								
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CCO 006	Contract Change Order No. 6	WCD 008: Based on the lack of complete information in the Contract Documents and the City's actual needs at the turnout control building, MCI is to install a door proximity switch and keyed bypass provided by the City. The switches will be wired to slot 2 channels 0 and 1, respectively, of the turnout control building ICP as indicated in the I/O list as a part of the response to RFI No. 110.	\$2,621					
		WCD 011: The current design has a misalignment with the proposed tie-in location for Well 185 at the Northeast Surface Water Treatment Facility. The current design requires the Contractor to tie into the valve that tee's off the existing line coming from Well 185. This connection point is 6'3" off station and 5 15/16" higher than the outlet on the 36"x 12" WS tee. Per this WCD, the Contractor is to provide costs for the additional materials to make this connection.	\$8,206					
		WCD 015: The current approved recycled Class II AB material which is acceptable base material under the AC on Foothill Lane will not make a suitable driveable surface for the shoulder due to dust concerns. Contractor is directed not to place the recycled AB material presently on site and use a recycled asphalt grinding.	\$10,950					
		WCD 016: This WCD is in direct relation to work work described in WCD 012. The purpose of this WCD was to hold the excavator on-site for improvements in Big Dry Creek. The contractor was going to move the equipment off-site because they are done with the equipment for other work. Standby costs were occurred to keep the equipment on-site.	\$2,608					
		WCD 017: After conversations with USBR, the original pitot tube locations will no longer work. Only one pitot tube is now required, and the pitot tube is now longer than originally anticipated. At the currently location, there is not enough room to fit the pitot tube into the pipe. Therefore, the hole will now have to be located on the upper portion of the pipeline to allow for enough clearance.	\$1,121					
		WCD 018: Due to the high rain fall and the poor surface drainage on Willow Avenue in the vicinity of the FKCP pipeline the subgrade material became saturated causing the pavement to fail. The previously place subgrade and pavement which was place by the Contractor as per specification was removed. As there appears no changes will be made to the drainage at the intersection Of Willow and Copper before the next high rainfall event which will lead to flooding. The Contractor was directed to replace the subgrade material with CLSM to within 9 to 10 inches of finish grade. The pavement was place on top of the CLSM. The CLSM will resist infiltration by standing water into the subgrade and will prevent subgrade and pavement failures in the trench zone in the future. This action should prevent the City from having to make repairs to the pavement in the trench zone for the foreseeable future.	\$63,522					
		WCD 019: Similar situation existed in the trench zone on Copper Ave as was described for Willow Ave in WCD 018 (please review Change Item Description for WCD 018). The previously installed subgrade material and pavement was installed as per specification. The subgrade and pavement failure was not a result of poor workmanship by the Contractor. To correct the subgrade issue and to prevent the issue from reoccurring in the future, the existing pavement and subgrade material was removed by the Contractor. At the direction of the CM the Contractor replaced the subgrade material with CLSM to within 9 to 10 inches of finish grade. The pavement was placed over the CLSM, this process should prevent the need of the City to address any pavement issues in the future in this area. A county of Fresno inspector was present during the repair process.	\$88,514					
		WCD 024: Contractor had demolished two trees along Willow Avenue for pipeline construction. The City will be replacing these trees in lieu of the Contractor replacing them. Therefore, this WCD is for a credit for the trees.	(\$300)					
		COR 015: Change order addresses the cost for the addition of re-enforcing steel (rebar) to a concrete slab at the intake structure. The contract drawing omitted a detail and call out for the rebar.	\$3,103					
		COR 017: The pipe support as designed was in conflict with nearby fittings. Contractor had to move the pipe support.	\$5,112					

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Draft CCO 7	Draft Contract Change Order No. 7	COR 016: This change covers the cost for the Contractor to remobilize to approximate pipeline Station 106+50. During initial work at this location, a high-voltage buried electrical cable was discovered that was not marked on the plans. The cable was in direct conflict with the pipeline and required relocation by PG&E. The relocation effort required approximately 6 months to accomplish. The additional cost associated with this change is to cover the cost of remobilizing equipment to the location as well as extra labor and equipment associated with out-of-sequence joint closures. The cost does not include the labor, materials, and equipment to perform original contract work.			\$32,910			
		WCD 014: This change adds repair of interior cement mortar lining of an existing 60-inch diameter pipeline. The new sections of the Friant Kern Canal Pipeline connects to both ends of the existing pipeline installed 10-years ago across the Clovis High School Campus. The City's inspection of the existing pipeline revealed numerous interior mortar lining deficiencies that required repair before the new pipeline was connected. The cost includes the labor, materials, and equipment required to repair the lining.			\$35,087			
		WCD 020: The change adds a prefabricated metal platform inside the meter vault to allow for safe access to a pitot tube flow measuring device. The US Bureau of Reclamation (USBR) uses the pitot tube to periodically verify the primary meter. The cost includes the labor, materials, and equipment required to provide and install the platform.			\$7,931			
		WCD 022: This change adds fencing at the lay down/ storage yard on Armstrong Avenue. The existing fencing which was removed or damaged during construction is to be replaced as per contract on the west, north and east sides of the yard. The new fencing is to tie into the existing fencing on the remainder of the property. The replacement fencing will be installed at the unit price as per the bid item for fencing.			\$2,040			
		WCD 023: This change is to furnish and install stainless steel banding for the pipe maker signs at the Northeast Surface Water Treatment Facility in replacement of the plastic cable ties which were provided with the signs. The specified plastic ties are not appropriate for long outdoor use.			\$1,180			
		WCD 025: This change is to replace a gate for a private property on Armstrong Avenue, which was found to be affected by the construction but not shown on the contract drawings to be replaced.			\$1,406			
		COR 013, COR 006a, COR 006b, WCD 013, and CITY INSPECTION OVERTIME: This item resolves the disputed costs associated with five change items: 1) COR 013 – Clean-out Trench from Stop Work Notice; 2) COR 006a – Nesting Birds in Work Zone (05/03/17 to 05/30/17); 3) COR 006b -- Nesting Birds in Work Zone (06/013/17 to 07/14/17); WCD 013 – NESWTF Buttstraps; and Reimbursement of City Inspection Overtime. The net result of this resolution is a \$145,000 cost increase to the Contract. A summary of each of the five items as follows: COR 013 – Clean-out Trench from Stop Work Notice: An environmental Stop Work Notice was issued on December 02, 2016 due to discovery of a CTS in the work zone. Environmental agencies required the shutdown to adjust mandatory exclusion fencing. The stoppage extended into a period of extreme weather, during which time the trench was flooded with mud. The Contractor was required to remove the mud (unsuitable soils), before backfilling. Contractor claimed this event was beyond their control. COR 006a & 006b -- Nesting Birds in Work Zone (05/03/17 to 07/14/17): Nesting migratory birds were found within the work zone, and all activity was precluded within 150 feet in all directions. The Contractor had equipment within the exclusion area and could not proceed until the birds fledged. Within a few days of the first fledging, a new migratory bird next was found. This amounted to a period of approximately 2 ½ months. Contractor claimed this event was beyond their control.				\$145,000		

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		WCD 013 NESWTF Buttstraps: Contractor was required to connect newly installed pipe to an existing pipeline. The location shown on the Contract drawings was based on City records, and it was approximately 5-feet off in a horizontal direction. Extra work was required to make the connection. Contractor claimed this event was beyond their control. Reimbursement of City Inspection Overtime: The Contract requires the Contractor to reimburse the City for all overtime charges for City Inspectors on the project. Contractor claimed that all City Inspection Overtime time may not be directly related to actual Contractor work.						
		RFP 015 - Contract Bid Item Adjustment: Additional potholing required which exceeded original number in the Bid Item. Contractor received approval from the Construction Manager to bill Bid Item 8 Pothole Existing Utilities for 15 additional pothole locations.			\$11,250			
		RFP 016 - Contract Bid Item Adjustment: Bid Item No. 13 - 60" Diameter Raw Water Pipeline - This change item deletes 22 linear feet of 60 inch diameter welded steel pipe, which was originally part of the quantity estimated in the bid documents. Substantial Completion for the project has been recorded as 11/17/2017, total quantities installed and payment amounts have been confirmed and necessary project work has been completed. Therefore, this Bid Item is being adjusted to provide credit to the City. Credit \$7,892.32			(\$7,892)			
		RFP 017 - Contract Bid Item Adjustment: Construction Manager, as allowed by the Bid Item, directed the Contractor to install additional gates as needed. The Construction Manager approved the Contractor to bill Bid Item 32, Access Drive Gate for Barbed Wire Fence, for an additional 8 gates based on field			\$11,900			
		RFP 018 - Contract Bid Item Adjustment: Bid Item No. 38 - Supplemental Work - This item was established for completion of authorized extra work in accordance with Section 3, "Changes in Work", of the Standard Specifications. Substantial Completion for the project has been recorded as 11/17/2017, total quantities installed and payment amounts have been confirmed, and necessary project work has been completed. Therefore, this Bid Item is being deleted from the Contract. Credit \$300,000.			(\$300,000)			

# Construction Contract Change Item Descriptions (CID)

Project Name: **Kings River Pipeline Project**  
 Project Number: **WC00057-KRP**  
 Data Date: **04/27/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$45,583,750	\$45,083,750	575
Approved Contract Change Orders:	\$578,579	\$578,579	64
		1.28%	
Current Contract Value:	\$46,162,329	\$45,662,329	639

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Total</b>			<b>\$578,579</b>	<b>64</b>	<b>\$474,838</b>	<b>\$0</b>	<b>\$3,828,305</b>	<b>139</b>
<b>Change Order Requests</b>								
COR 010	Unmarked Fiber Line in Harvey Ave	An unmarked fiber line was discovered while excavating for pipe installation. The fiber line ran parallel to and in some instances in the trench zone. Fiber line had to be supported and moved slightly to allow for pipe installation. The unforeseen condition caused delays to the Contractor.			\$49,785			7
COR 017	Access Manway at Academy Ave Time Extension	This time extension is associated with the work under WCD 012. Due to an unmarked utility (25 kV PG&E) which conflicted with the pipe, the pipeline profile was lowered three feet to pass under the power line. The profile change was reviewed by design engineer which required an addition of a 10 foot piece of pipe containing an access manway. The decision by the design engineer came after contractor had already installed several 100 feet of pipe past the utility. Since the requirement for the addition of the access manway was not in the original contract and not a result of Contractor error. The Contractor is entitled to addition time to return to the location, remove original pipe and install the pipe with the access manway.						5
COR 018	Veteran's Day 2016 Delay	Contractor requested a Rider from the County of Fresno to begin work on Belmont Avenue at Station 30+00 (approximately 300 feet east of the intersection of Belmont and Armstrong) on November 10, 2016. At a November 9, 2016 meeting with the County of Fresno, the County raised concerns with the proposed start date of November 10, 2016 of the mainline heading on Belmont Ave. The County informed the Contractor that the County does not allow closure of a major roadway the day before a holiday. Which in this case was November 11th. The Contractor claims they were never informed of this condition and is claiming delay and seeking compensation.					\$12,946	2
COR 019	Sugar Sand Change of Material Conditions at River Bend Ave Intersection	The Contractor is claiming a change of conditions of the materials found in the excavation on Belmont Ave near Riverbend Avenue. The Contractor claims the geotechnical report provided does not indicate a soil condition which would result in excess sloughing and requiring additional shoring. Contractor is seeking compensation for additional costs associated to complete work in area plus additional time.					\$173,153	8
COR 020	Fresno County Requirement to Move Operations	This change request is a assertion that the County of Fresno cause a delay in the Contractor's ability to start work at the location on Armstrong Avenue. The County was concerned at the amount of closures in the vicinity due to the work at the SESWTF. The County indicted they did not want the intersection of Belmont and Armstrong closed to or impacted by construction on the date the Contractor planned to start. The County indicated they would allow work to begin in Belmont Ave at Station 30+00. Contractor seeking compensation for costs they claim to have experienced and requests additional time for delay.					\$44,615	2
COR 021	Unmarked Cuvlert Drain Line on Trimmer Springs Ave	This change is associated with an unmarked storm water drain culvert which crossed Trimmer Springs Ave at approximate Station 662+00. The culvert was not the County inventory and was not shown on the project's plans. The culvert was in direct conflict with pipeline which required the culvert to be cut, an portion removed, and pugged to prevent storm water flow into the pipe trench. Permission was required from the County of Fresno to take the storm drain out of service. The City CM directed the Contractor not to proceed until County approval could be obtained. County permission was eventually obtained. Contractor is requesting costs incurred to pothole the utility to determine its exact location and elevation, loss of production and two days of lost time.			\$36,068			0



# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
COR 022	Mobilization of a Second Crew to East Trimmer Springs Ave	The Contractor is claiming that they were requested to mobilize a crew to start a second heading in the "cobble area" at Belmont Avenue and Trimmer Springs Avenue. Contractor is requesting compensation for the mobilization of the second crew.					\$181,024	
COR 023	Concrete Change of Material Conditions at Fancher Creek	The Contractor is claiming a change of conditions in the material while excavating to pass under Fancher Creek in 2016. Contractor is seeking compensation what they consider extra work and request additional time.					\$117,468	7
COR 024	Fresno County Rider Delay	The Contractor is claiming the County of Fresno delayed production due to not issuing a second Rider for work east of the intersection of Temperance and Belmont Avenues because an existing Rider at McCall and Belmont Avenues was issued and still in force. Contractor seeking compensation for lost production and additional time.					\$90,251	8
COR 027	Asphalt Emulsion Lab Testing	Per the specifications, Contractor is required to test a sample of asphalt emulsion and chip material at the Department of Public Works and Planning Material Laboratory. However, the County informed the CM that the County of Fresno does not have a contract to conduct testing for the Kings River Project and would not be conducting required testing. CM directed Contractor to have a third party lab conduct the testing.			\$4,834			
COR 028	Flushing Appurtenances	The Contractor presented costs associated with flushing and testing valves on the appurtenances for pipeline sections 1-4 which consider extra work not addresses in the specification. The total cost of labor from the Contractor for this activity was \$7,268.33. The City offer to share 50% of the cost was agreed to by the Contractor, therefore, the City's share was \$3,634.17.			\$3,634			
COR 029	Dewatering Existing Tie-in Pipe	The Contractor was working around the tie-in connection piece near station 10+00 and encountered a significant amount of water coming from a pipe owned by Lyles Construction. The Contractor was not aware that this pipe was filled with water so, when the flange was removed on a temporary blowoff, the trench became flooded. This change to discharge the water added two complete shifts, one additional shift at three hours, additional premium time on one shift, and standby charges from subcontractors.					\$67,395	
COR 030	Additional Fencing and Downtime at the Intake	The Contractor presented costs associated with survey errors that misrepresented the location of two oak trees at the KRP intake. The plans showed the trees well within the fence line, in actuality the trees were in the fence line. To prevent damage to the oak trees the Contractor was directed to place the fence around the trees. This change includes the extra materials and labor for fencing around the trees as well as three hours of standby time as the conflict was resolved.			\$9,620			
COR 031	Change In Conditions Cost Recovery	Contractor claims a change of conditions in the subsurface materials as found in the excavations when compared to the projects geotechnical report. Beginning in the cobble zone which begins close to the CID Lone Tree crossing on Belmont Avenue and continues east along Belmont Avenue to Trimmer Springs Avenue and ending at the KRP Diversion Site (Intake). Contractor the change in conditions adversely affected pipeline installation lead to delays and additional cost.					\$3,477,588	66
COR xxx	Reimbursement for Rectifier Design & Maint	Due to a issuance of a non-conformance concerning the pipe primer, Garney has been given the option to either dig up and fix all pipe joints on all pipe fabricated after June 1, 2017. June 1, 2017 is when the pipe priming process has been documented to have been changed. Or installing a an impressed current cathodic protection system to cover the entire pipe line with associated design and maintenance fees. Per Garney's suggestion, a impressed current rectifier system has been selected. Currently a place holder as specific details are pending.					(\$120,000)	
Requests for Proposal								
RFP XXX	City Backcharge for Inspection OT	As per page 2.8 of the General Conditions regarding Overtime Inspection Fees, the Contractor shall pay for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays, and hours worked by the inspector other than those of the normal City working day.					(\$216,133)	

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Work Change Directives</b>								
WCD 012	AM at Academy Ave	Due to the field change required to pass the pipeline under an existing utility east of Academy Ave which was found to be lower than indicated on the design drawings, the Design Engineer determined the Contractor is to install a pup piece of pipe with an accessway at approximately Station 372+00 to address the change in elevation of the pipeline. This change requires the Contractor to have an addition piece of pipe fabricated and to install said piece at Station 372+00. The installation will require the contractor to expose the previously place pipe, cut and remove a 10 foot section of the existing pipe and replace with the new pup piece containing the accessway. The pup piece will be connected with the use of two welded buttstraps. The Contractor is to then backfill and compact the excavation and then repave Belmont Avenue in the area of the work.			\$101,897			
WCD 017	Diversion Electrical Enclosure	The City has requested an enclosure around the electrical panels at the diversion site to keep the electrical equipment in a climate controlled environment and to improve security of the delicate and costly equipment. The construction site has been burglarized several times during the past year due to its remote location and close proximity to the road. This WCD is to allow the Contractor to procure the enclosure as the building has a long lead time.			\$44,727			
WCD 019	Air Vent Locations	The Contractor was directed to make changes to various atmospheric air vents that had already been installed. These changes are a result of an error in the atmospheric vent detail which is found in the Conformed Project Drawing, sheet 17, C-007, detail 1 Atmospheric Vent Detail. This detail shows a height for the vent of 4 feet. The dimension should have stated 4 ft. minimum as the detail also has call out of elevation of 435 feet. The 435-ft. elevation is 5 feet above the maximum water level in the Fresno Irrigation District's (FID) canal at the location of the KRP intake. The 435-ft. elevation is essential to prevent the vents from leaking during maximum flow in the FID canal.			\$8,000			
WCD 020	Vent Valve Box	Contractor installed valve per design. However, there was not enough cover over the valve for placement of backfill. The valve as installed close to the shoulder of Belmont would be a traffic hazard. The Contractor was order to rotated the valve 90 degrees so the valve shaft was horizontal not vertical. With lack of sufficient backfill a traffic-rated valve box was required to protect the valve.			\$20,000			
WCD 021	DC Blocker	The Contractor was directed to purchase and install a DC blocker per the instructions provided by the DC blocker manufacturer. Per RFI 101, the motor operated valve DC blocker shown on detail 7 of plan sheet 00-CP-003 was not included in the specifications or labeled anywhere else on the project drawings. Upon completion, Contractor is to provide a red line drawing of it's actual location.			\$12,000			
WCD 022	Additional Bollard Locks	The Contractor is to supply and install Code 170116 Safety Locks with the installation of the removable bollards. Per City's request, this change was to direct the Contractor to purchase an additional 500 Code 170116 Safety Lock's as spare parts to the City.			\$2,633			
WCD 023	Safety Railing at Intake	Due to the repositioning of the traveling screen by the factory representative. Addition safety railing was necessary to prevent someone from falling into the intake vault in front of the traveling screen. To insure the safety of the City employees the Contractor was directed to purchase and install additional safety railings on the intake structures.			\$8,000			
WCD 024	Closed Feedback	During testing a startup the City discovered the current design did not provide sufficient feedback through SCADA to provide City with the actual status of the sluice gate on the intake structure. The current installation only indicates fully open or fully closed and no status in-between. Currently when the gate is order to close the screen indicates closed even though the closing process is not completed. This change is to add additional wiring and relay to provide the status of the sluice gate during the closing and opening process. This change will allow the operator to read the actual status of the gate in percent open or percent closed. Change requested by the City's operations staff.			\$4,313			

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
WCD 025	Post-construction Survey	The Contractor was directed to conduct the post-construction survey of all survey monuments within or adjacent to the road right of way, pipeline alignment, or other construction areas. A similar survey was required prior to construction, this post construction survey will determine if construction had any effect on the survey monuments. The results of the monument survey location data will be filed with the Fresno County Surveyor. Contractor to provide a report from the California Registered Land Surveyor to the City's Construction Manager summarizing the results of the post-construction survey and indicating any monuments which have been affected by construction activities. The Contractor will be responsible for repairing any damaged monuments or seeking resolution of any issues which are revealed by the post-construction survey. The post-construction survey and filing with the County was not included as a Contractor responsibility in the Kings River Pipeline contract therefore, will be addressed as a Change Order.			\$37,068			
WCD 026	PCM FID Panel Expansion	Per request of the Fresno Irrigation District, the Contractor was directed to provide the expansion module and additional inputs to the PCM-FID panel due to significant discrepancies on the project drawings.			\$13,203			
<b>Change Orders</b>								
CCO 001	Contract Change Order No. 001	Contract Time Extension: Contract time extension granted with concurrence that additional time was needed to complete the proposed work and recognizing that time extension would not impact negatively impact ability to comission SESWTF on schedule. This is a no cost change for this CCO.		60				
CCO 002	Contract Change Order No. 002	COR 002 - Change was initiated by the City to pay for additional signage for the Belmont Nursery as well as the Belmont Country Club.	\$3,950					
		COR 003 - This change was initiated by the City to pay for the uplift labor cost to work on three Saturdays to ensure the Diversion Structure was completed ahead of schedule to support FID need to release water.	\$8,353					
		RFP 002 - State of California law requires pre construction survey monument location data to be filed with the Fresno County Surveyor. This was not included as a contractor responsibility in the contract documents, the contractor was requested to provide a proposal to add the work. After reviewing the contractor's proposal, the City decided to use the design engineer's surveyor.	\$47,745					
		RFP 003 - This change responds to Design Engineer's recommendation that tracer wire is no longer needed for this project.	(\$17,958)					
		WCD 002 - This change adds vehicular rumble bars and gravel surfacing at the construction staging area common entrance from Olive Ave. This entrance is shared with three Recharge Fresno Program contractors and the common area surfacing was not included in any individual contract.	\$12,740					
CCO 003	Contract Change Order No. 003	COR 001 - Paleontological Monitoring: Contract specifications require the development of a paleontological monitoring and mitigation plan for the Project. A plan was prepared and called for on-site paleontological monitoring during certain phases of the Project. Specifications indicated that costs for paleontological monitoring, if required, would be paid by the Owner.	\$127,333	0				
		COR 004 - This change was a negotiated solution to changes in the specifications to address the County's requirements for 2-way traffic in the construction soft closure zone.	\$56,056					
		COR 005 - Change Order Request is a result to field changes in the position of the traveling screen at intake verse position in approved submittal. As a result of the position change the prefabricated grates and support beams required modification. This change addresses costs associated with the modifications.	\$8,389					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
CCO 004	Contract Change Order No. 004	RFP 004: The Armstrong Avenue/Harvey Street intersection pavement (pipeline Station 10+00 to Station 14+00) was significantly deteriorated prior to construction, and subsequent pipeline construction activity essentially destroyed the pavement beyond what a normal trench patch would remedy. The City agreed with the County's request to replace the entire paved surface within the intersection. This change directs the Contractor to rebuild the intersection to match the recently installed roadway pavement on Armstrong South of the intersection. The agreed road section consists of 4-inches of HMA over 8-inches of compacted AB with a 2% cross slope (See Rider 19, Item 11 and RFI 064). The City agrees to reimburse the Contractor for a portion of the cost for work that is outside the Contract Scope of Work.	\$52,071					
		RFP 005: This change adds small diameter air relief vents in the pipe access manways covers to allow for release of air during the filling of the pipe, to release pockets of air trapped in the access manways to expedite the pipeline hydrostatic testing, and to facilitate future filling of the pipeline during routine maintenance.	\$15,038					
		WCD 004: This change adds a concrete pad at the Diversion Site electrical panels to allow for a safe all weather work surface. This change was requested by City Operations staff.	\$7,865					
		WCD 005: This change modifies the location of an already installed CARV that was in conflict with a property owner's access gate. The CARV was relocated to the East of the location shown on the design drawings.	\$5,605					
		WCD 006: This change modifies the location of a CARV that was installed within the right-of-way but too close to the property owner's orchard. The CARV was relocated three feet closer to the Belmont roadway to provided sufficient clearance to the orchard thus reducing the possibility of damage to the CARV.	\$5,605					
		WCD 007: This change modified the standard detail for driveway replacement to the Warmerdam property on Armstrong Avenue. The easement document for the Warmerdam's property requires that access driveways be sawcut and replaced to the edge of the right-of-way. This requirement was discovered after the initial paving was completed and applies to two driveways.	\$5,220					
		WCD 011: This change modifies the location of a CARV that was installed too close to the AT&T pole south of Belmont Ave. The CARV relocated to the East of its planned location.	\$5,605					
		WCD 012: Due to the field change required to pass the pipeline under an existing utility east of Academy Ave which was found to be lower than indicated on the design drawings, the Design Engineer determined the Contractor is to install a pup piece of pipe with an accessway at approximately Station 372+00 to address the change in elevation of the pipeline. This change requires the Contractor to have an addition piece of pipe fabricated and to install said piece at Station 372+00. The installation will require the contractor to expose the previously place pipe, cut and remove a 10 foot section of the existing pipe and replace with the new pup piece containing the accessway. The pup piece will be connected with the use of two welded buttstraps. The Contractor is to then backfill and compact the excavation and then repave Belmont Avenue in the area of the work.	\$101,897					
		COR 006: Adverse Weather Days: Garney requested a total of 21 Adverse Weather Days (AWDs) from October 28, 2016 to February 20, 2017 as shwon on Page 3 of this Contract Change Order. The CM agreed that a total of 3 Excess AWDs are validated for 2016 and a total of 1 Excess AWD is validated for 2017 through October 31, 2017. This change adds 4 calendar days to the Contract Time for Excess AWDs.		4				
		COR 007: This change addresses a change condition at the intersection of Belmont and Trimmer Springs Avenues. An unmarked 18" irrigation line owned by the Free Water Irrigation District was discovered during pothole investigations. The Contractor was directed to provide a temporary steel beam truss to support active irrigation pipe while the 72" RW pipeline was installed underneath.	\$71,920					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 008: This change adds traffic control measures to the detour route around the work zone from Trimmer Springs Road to Flume Road section of pipeline to mitigate public safety concerns raised by the County and various stakeholder.	\$3,337					
		COR 009: This change modifies the depth of the pipeline to clear an unmarked communication line that was discovered during pipe installation. A change of slope to the pipeline was required to clear the communication line. The change in slope of the pipe resulted in additional work for the Contractor.	\$3,418					
		COR 011: This change addresses the discovery of a previously unknown, possible historic concrete structure located approximately 8 feet below the ground surface in the pipeline trench. Construction was stopped while the City's project archeologist determined the origin and purpose of the structure. The project archeologist's determination was that the structure should be measured and photographically documented, then broken up and removed by the Contractor. The delay covered two work days and the work necessary to remove the structure.	\$15,828					
		COR 012: This change addresses an unmarked communication line that was discovered while excavating for pipe installation. The communication line was not shown on the project drawing or located in the field by the utility locator. The unforeseen condition caused delays to the Contractor to temporarily support and work around the line..	\$9,325					
		COR 014: This change addresses an unmarked AT&T line at Station 107+95 that was discovered while excavating for pipe installation. The communication line was not shown on the project drawing or located in the field by the utility locator. The communication line was in a steel conduit which the contractor damaged. AT&T was called to repair the damaged line. AT&T found a second steel conduit below the damaged conduit and decided to install the communication line in the second conduit. Second conduit was in conflict with CARV outlet on conveyance pipe. Contractor directed by the CM to move CARV 40 feet to east by installing a straight section of piping out of sequence to avoid conflict. Contractor delayed by AT&T response and need to lay pipe out of sequence to avoid CARV conflict.	\$16,701					
		COR 015: This change addresses two unmarked utility lines in the vicinity of Station 120+00 that were discovered while excavating for pipe installation. The communication line (AT&T) was not shown on the contract drawings or marked in the field by the utility locator. Contractor experienced delays while AT&T responded to the damaged utility.	\$12,537					
DRAFT CCO 005	Draft Contract Change Order No. 005	WCD 003: Change involves changes to the handrails at the intake to allow for the slide gate actuator to be rotated 180 degrees from its current installed position. As currently designed and constructed, the slide gate actuator will not allow the Rubicon flume meter to be removed for servicing. By rotating the actuator 180 degrees the Rubicon flume meter can be removed for service without disassembly of slide gate actuator over open water of the canal.			\$1,804			
		WCD 014: Due to requests by the residents on Flume Road to improve control of the speed of vehicles being detoured on to Flume Road due to the construction of the KRP pipeline on Trimmer Springs Road. Project Management requested the Contractor to obtain the services of a dedicated California Highway Patrol (CHP) officer to patrol the construction area to reduce traffic speed and to improve the safety to all that travel through the construction zone. As part of this request the City agreed to share in 50% of the cost for the CHP officer.			\$17,252			

## Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		<p>WCD 025: This change item adds thirty-four (34) calendar days of non-compensable Contract Time Extension to the Contract. Garney requested forty-seven (47) calendar days additional Contract Time related to ten (10) CORs/WDCs: COR 07 – Freewater; COR 11 – Weir; COR 18 – Veterans Day; COR 19 – Sugar Sand Riverbend; COR 20 – Tie-in to 29+50; COR 21 – Culvert; COR 23 – Fancher; COR 24 – County Delays; WCD 05, 06, 11 – CAVs; and WCD 12 - Academy Pup Piece. Some of these requests relate to Non-Critical Path work, may be concurrent, or are otherwise not normally considered compensable. This Contract Time Extension is full and just time compensation for the time extension requests identified above as well as any forthcoming COR time extension requests addressing work accomplished prior to January 4, 2018. The Contractor acknowledges that while this change provides non-compensable time for multiple Change Order Requests and/or Work Change Directives, it is not intended to imply the City's acceptance of the merits of the Change Order Requests or Work Change Directive cost proposals. Garney reserves their rights to claim additional direct costs related to the ten changes identified above.</p>						34
		<p>WCD 026: This change item adds a \$100,000 lump sum payment to the Contract as full compensation for Garney's commitment of sufficient personnel and other resources to ensure the KRP is ready in its entirety and in all respects to be filled with water and begin the hydrostatic water testing process no later than 6:00 am on January 22nd 2018. The lump sum payment will only be made if the readiness criteria is achieved to the Construction Manager's satisfaction. This change item also requires the Contractor to provide a detailed testing plan, five (5) days prior to beginning hydrostatic testing, that, at a minimum, itemizes sequence, duration, methods, and procedures for filling the pipe, air venting, soaking the lining, pipeline test section identification, pipeline pressure test, mainline valve leakage test, and appurtenance pressure test.</p>			\$100,000			

# Construction Contract Change Item Descriptions (CID)

Project Name: **Southeast Surface Water Treatment Facility**  
 Project Number: **WC00057-SESWTF**  
 Data Date: **04/30/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$158,766,000	\$157,766,000	1000
Approved Contract Change Orders:	\$3,862,241	\$2,862,241	3
		1.81%	
Current Contract Value:	\$162,628,241	\$160,628,241	1003

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Total</b>			<b>\$3,862,241</b>	<b>3</b>	<b>\$38,372</b>	<b>\$270,354</b>	<b>\$166,617</b>	<b>0</b>
<b>Change Order Requests</b>								
COR XXX	Add Conduit/Wires TWP (RFI 284)	Add conduits and wires to Treated Water Pumps for heat sensors					\$12,500	
COR XXX	Add 115 kV SF6 Breakers TWP (RFI 393)	UPS has 2-additional battery cells requiring additional breakers					\$10,000	
COR XXX	Add KRP UPS Monitoring (RFI 419)	Add monitoring of KRP UPS to match SESWTF monitoring					\$7,500	
COR XXX	Modify O3 Pipe Gallery Lighting (RFI 155)	Modify lighting locations on gallery due to HVAC duct conflicts					\$10,000	
<b>Requests for Proposal</b>								
RFP XXX	Gate 103 Pedestal Relocation (DC 097)	Relocate Gate island/pedestal to create adequate clearance					\$12,500	
RFP XXX	Modify BW Constant Head Box (DC 102)	Modify BW Constant Head Box & reroute TW vent to mitigate air entrainment					\$75,000	
RFP XXX	Substation Powerline Protection (DC 103)	Add swing gates to inhibit access beneath high voltage powerlines					\$7,500	
RFP XXX	Calcium Hydroxide System (DC 58.3)	Modify CaOH system to mitigate feed line clogging.					\$11,617	
RFP XXX	Add UPS to O3 Isolation Valves	Add UPS to close valves during plant power outage to mitigate contamination					\$20,000	
<b>Work Change Directives</b>								
WCD 015	Backfill Behind Curb (FO 010)	Provide additional labor to backfill the landscape area behind the perimete curbs to provide proper drainage and mitigate ponding.			\$20,000			
WCD XXX	Reservoir Overflow Channel (FO 013)	Modify bottom of channel rip-rap (FO 013)			\$10,000			
<b>Change Orders</b>								
CCO 001	Contract Change Order No. 1	RFP 001 - CM Trailer Modifications - Modification of design for CM trailer complex, including reduction in size to align with a revised approach to housing the Program Team and CM teams for SESWTF and KRP projects. Credit \$1,153,313  WCD 002 - Establish Supplemental Line Item - Addition of supplemental task line item and budget to the construction contract in line with City's standard approach to change management and to allow for timely processing of time-critical changes during the course of construction. Cost Increase \$1,000,000	(\$1,153,313)  \$1,000,000					
CCO 002	Contract Change Order No. 2	RFP 002 (WCD 001) - Finished Water Reservoir Change - Modification of finished water reservoir configuration to provide an overall cost savings. Credit \$1,552,734.	(\$1,552,734)					
CCO 003	Contract Change Order No. 3	COR 004 -- VECP 001 -- Modify Site Perimeter Block Wall from 6'-6" deep by 1'-0" wide footing to a 1'-6" deep by 3'-6" spread footing to provide the same foundation performance with less excavation, backfill, and concrete. Credit \$34,717.  COR 004 -- VECP 002 -- Modify the crack control joints in Backwash Sludge Lagoons to provide the same level of shrinkage crack control with less manual saw-cutting and joint sealant. Credit \$62,224.  COR 004 -- VECP 003 -- Change the Treated Water Reservoir structural underdrain collectors from buried Scheudle 80 PVC pipe to and HDPE dual wall corrugated pipe. Credit \$59,633.	(\$34,717)  (\$62,224)  (\$59,633)					
CCO 004	Contract Change Order No. 4	COR 006 -- VECP 004 -- The current design calls for a cable trays installed about 20' above grade for routing cables within the Chemical Facility. This proposal relocates these wires to under-slab and in-slab conduits. Spare conduits and concrete encasement are provided. Credit \$100,581.  COR 003 -- COP 009.1 -- Modifications to electrical feeder breaker DPOPS-1 in the chemical building. Cost increase \$6,429.  COR 005 -- COP 014 -- Contract specifications require the development of a paleontological monitoring and mitigation plan for the Project. A plan was prepared and called for on-site paleontological monitoring during certain phases of the Project. Specifications indicated that costs for paleontological monitoring, if required, would be paid by the Owner. Cost increase \$24,938.	(\$100,581)  \$6,429  \$24,938					



# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 023 -- COP 015 -- Minor revisions to security sytem device locations. Cost increase \$19,573.	\$19,573					
		RFP 017 -- COP 016 -- Upgrades the type of fuel tank in response to recently changed City of Fresno Fire Department requirements for generator base mounted diesel fuel tanks to be constructed and listed to UL 2085 in lieu of UL 142. Cost increase \$172,899.	\$172,899					
		RFP 019 -- COP 019 -- Delete the two 6" ozone vents located inside the ozone contact basins, including the slab penetration and pipe support. Credit \$2,707.00.	(\$2,707)					
		COR 001 -- COP 006 -- Add additional exit sign in the Ozone Facility lower level. Cost increase \$1,424.	\$1,424					
		COR 002 -- COP 007 -- Add additional conduit tags for heat trace wire. Cost increase \$3,680.	\$3,680					
		RFP 007 -- COP 005 -- Reroute 36-in BWS pipeline to provide more efficient flow and less opportunity for air entrainment. Cost increase \$8,461.	\$8,461					
		RFP 009 -- COP 003 -- Revise landscaping plan to mitigate for removal of large California Live Oak. Cost increase \$4,245.	\$4,245					
		RFP 011 -- COP 008 -- Change the location of the ISO Flanges on the Finished Water Transmission Main leaving the site. Reduces the number of ISO flanges. Credit \$29,658.	(\$29,658)					
		WCD 003 -- COP 004 -- CM directed abandonment of old water well on site. Cost increase \$3,168.	\$3,168					
		WCD 002 -- COP 011 -- CM directed removal of old residential garbage dump on site. Cost increase \$14,649.	\$14,649					
CCO 005	Contract Change Order No. 5	RFP 029 -- COP 023 -- Added scope for SCADA (plant control system) programming. Originaily anticipated to be performed under separate contract, it was determined that addition of scope to the SESWTF construction contract was the most effective and efficient method of implementation. Thus this change does not require additional funding for the overall project. Cost Increase \$2,493,750	\$2,493,750					
CCO 006	Contract Change Order No. 6	COR 007 -- COP 025 -- Delete concrete encasement of plumbing under Operations Building and Maintenance Facility and install per code for occupied buildings. Credit \$21,465	(\$21,465)					
		RFP 015 -- COP 012 -- Add several conduits and cables to support the required ozone emergency shutoff switches. Cost Increase \$5,590	\$5,590					
		RFP 016 -- COP 017 -- Provide larger panel boards for LP-MAINT-1 and DP-MAINT-1 to accommodate the maintenance shop requirements to support pipe heat tracing. Cost Increase \$48,399	\$48,399					
		RFP 021 -- COP 013 -- Miscellaneous changes to electrical service to plumbing fixtures. Cost Increase \$9,560	\$9,560					
		RFP 025 -- COP 021 -- Add 36 stator baffle walls to improve flow patterns in the flocculation basins at high flow rates. Cost Increase \$140,989	\$140,989					
		WCD 007 -- FO 002 -- CM directed contractor to excavate saturated soils and replace with compacted granular on Olive Ave in order to provide suitable road subgrade. Cost Increase \$47,898	\$47,898					
		WCD 008 -- FO 001 -- CM directed contractor to excavate saturated soils and replace with compacted granular on Floradora Ave in order to provide suitable road subgrade. Cost Increase \$34,148	\$34,148					
CCO 007	Contract Change Order No. 7	COR 008 -- COP 026 Contractor suggested that the west wall of the filter building requires damp proofing on the buried sectionn and the DE concurred. Cost increase \$2,018.00	\$2,018					
		COR 009 -- COP 034 -- Revised wall opening at two locations for connection between Ozone and Filtration processes. Cost increase \$24,876.00	\$24,876					
		RFP 012 -- COP 028 -- Delete the removal & reinstallation of 107 LF of 8" PVC C-900 water main in Floradora Avenue from Sta. 36+36.02 to Sta. 37+06.22. Credit \$4,280.00	(\$4,280)					
		RFP 020 -- COP 030 -- During construction of the CM trailer, several modifications were required: ADA parking spots, reduced scope of fire alarm, reduced scope of security, and added networking capability. Cost increase \$60,156.00	\$60,156					
		RFP 027 -- COP 027 -- Several miscellaneous changes to the piping in Floradora resulted from CoF and FID plan checks at beginning of project. Cost increase \$10,790.00	\$10,790					



# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 036 -- COP 032 -- Change modifies the connection detail for the CAV line to the 16-inch potable water line. Cost increase \$6,674.00	\$6,674					
		RFP 046 -- COP 033 -- Provides revisions to the ozone destruct vent piping based on manufacturer's recommendations. Timing was urgent on this item. Cost increase \$3,603.00	\$3,603					
CCO 008	Contract Change Order No. 8	COR 010 -- COP 037 -- CoF Fire Department review of the Fire Alarm panel resulted in some mandatory changes to the specifications.. (RFI 0165) Cost increase \$16,796.00	\$16,796					
		COR 011 -- COP 045 -- Make multiple changes in electrical feeder sizes resulting from clarifications provided in RFI 0131. (RFI 0131) Cost increase \$13,363.00	\$13,363					
		COR 012 -- COP 047 -- Change the ceiling in Server Room from acoustic ceiling tiles to a hard lid gypsum wall board ceiling to contain the clean agent fire suppression system. (RFI 0173) Cost increase \$3,694.00	\$3,694					
		COR 013 -- COP 052.1 -- Change the components of the VPN Firewall to meet connection requirements of the City-Wide CISCO Identify Services Engine for all VPN communications. (RFI 0228) Cost increase \$67,559.00	\$67,559					
		COR 014 -- COP 057 -- Change the CTS Diffuser material from PVC to stainless steel. (RFI 0231) Cost increase \$9,531.00	\$9,531					
		COR 015 -- COP 062 -- Change two in-line Polymer diffusers from PVC to Hastelloy-C per manufacturer recommendation. Cost increase \$2,583.00	\$2,583					
		COR 016 -- COP 066 -- Change the components of the VOIP & Communications Firewall to meet connection requirements of the City-Wide CISCO Identify Services Engine. Cost increase \$116,785	\$116,785					
		RFP 052 -- COP 060 -- Modify the Ops Building Entryway Sunshade to coordinate with CMU wall configuration. (DC 066) Cost increase \$2,137.00	\$2,137					
		RFP 026 -- COP 036 -- Change configuration of local control panels for field equipment. (DC 042) Cost increase \$ 6,358.00	\$6,358					
		RFP 033 -- COP 035 -- Modify offsite street lighting configuration as result of CoF plan checks at beginning of project. (DC -029) Cost increase \$67,363.00	\$67,363					
		RFP 035 -- COP 043 -- Modify the telephone service conduits to accommodate AT&T revised service plans. (DC 045) Cost increase \$15,750.00	\$15,750					
		RFP 041 -- COP 039.2 -- Provide plates to cover trenches under access manways to Ozone Contact Basins. (DC 050) Cost increase \$6,736.00	\$6,736					
		RFP 044 -- COP 040 -- Provide revisions to main operator room entrance for added security. (DC 055) Cost increase \$2,566.00	\$2,566					
		RFP 045 -- COP 042 -- Change turbidimeters to align with the City's standards. (DC 056) Cost increase \$27,594.00	\$27,594					
		RFP 046 -- COP 049 -- Provide connection on 72-inch Raw Water Pipeline for future extension to the T3 facility. (RFP 078) Cost increase \$74,995.00	\$74,995					
		RFP 048 -- COP 055 -- Extend the Meter Vault access hatch 12 inches above grade for visibility and provide three bollards on the south side. side of the manhole. (DC 055) Cost increase \$6,573.00	\$6,573					
		RFP 049 -- COP 056 -- Add CAV Valves on various high points on the site PW Line loop. (DC 060.1) Cost increase \$5,687.00	\$5,687					
		RFP 050 -- COP 058 -- Add CAV Valves on 6" PW south end of the Operations Building. (DC 064) Cost increase \$5,163.00	\$5,163					
		RFP 051 -- COP 059 -- Provide security screen on the Perimeter Wall Opening stormwater overflow section. (RFP 009) Cost increase \$9,848.00	\$9,848					
		RFP 053 -- COP 061 -- Incorporate all modifications to the SCADA hardware described as "Option 2" in the Helix 01/19/17 letter attachment to COP 061. Additionally, Increase the SCADA Hardware Allowance from \$20,000 to \$22,613 to cover the full cost of this modification. (COP 061). Cost increase \$2,613.00	\$2,613					
		RFP 054 -- COP 063 -- Change the flooring type in the Operations Building upper story hall from Polished and Densified Concrete to Linoleum with a pattern per the attached figure. (DC 065) Cost increase \$6,281.00	\$6,281					
CCO 009	Contract Change Order No. 9	RFP 022 WQ -- COP 018.1 -- Add mixers to the two Caustic Soda Tanks (DC 036) Cost increase \$110,696.00	\$110,696					
		RFP 024 WQ -- COP 020 -- Add a tap on the Raw Water Pipe for injection of Sodium Hydroxide. (DC 038) Cost increase \$15,002.00	\$15,002					
		RFP 034 WQ -- COP 041 -- Add electrical and instrumentation for mixers on two Chemical Storage Tanks. (DC 044) Cost increase \$72,456.00	\$72,456					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 037 WQ -- COP 038 -- Add a Lime Fill Access Station in the Chemical Building. (DC047) Cost increase \$21,706.00	\$21,706					
		RFP 039 WQ -- COP 031 -- Add a tap on the Treated Water Pipe Tap for injection of CO2. (DC 039) Cost increase \$27,592.00	\$27,592					
		RFP 040 WQ -- COP 044.2 -- Add three caustic chemical feed pumps. (DC 049.1) Cost increase \$34,231.00	\$34,231					
		RFP 043 WQ -- COP 046 -- Make modifications to the Caustic Tanks to convert two for Sodium Hydroxide. (DC 053) Credit \$8,187.00	(\$8,187)					
		RFP 042 WQ -- COP 048 -- Add roof hatches to the two lime tank roofs. (DC 052) Cost increase \$19,379.00	\$19,379					
		RFP 047 WQ -- COP 053 -- Delete two Sodium Hydroxide System mixing eductors.(DC 067) Credit \$5,243.00	(\$5,243)					
		RFP 055 WQ -- COP 065 -- Make multiple mechanical changes in the Chemical Building to facilitate the addition of a Calcium Hydroxide feed system to the treatment scheme. (DC 058.1) Cost increase \$255,753	\$255,753					
CCO 010	Contract Change Order No. 10	COR 017 -- COP 068 -- Reimbursement for extra Design Engineer cost required by Contractor selected substation transformer foundation requirements. Cost decrease \$14,800	(\$14,800)					
		COR 018 -- COP 071 -- Add fire smoke dampers, including associated electrical and access hatches, to meet requirements of the specified clean agent fire suppression system in the Server Room. (RFI 021) Cost increase \$9,309	\$9,309					
		COR 019 -- COP 071 -- Add capability to control the TWPS discharge based on flow rate as an alternative to the specified system pressure control. (RFI 323) Cost increase \$2,620	\$2,620					
		COR 020 -- COP 075 -- Change specified radios to allow operation with the specified broadcast frequencies. (RFI 030) Cost increase \$4,370	\$4,370					
		COR 021 -- COP 079 -- Add structural stiffeners around electrical penetrations in 2nd floor metal decking in Ops Building in response to City Building Inspector comments/requirements. (RFI 0326) Cost increase \$12,590	\$12,590					
		COR 022 -- COP 064 -- Modify architectural resin panels based on DE review comments to provide additional resin panels at door jambs and headers, additional plywood backing, and additional painting. Cost increase \$8,862	\$8,862					
		RFP 056 -- COP 069 -- Delete color-code painting of indoor PVC chemical feed piping and add color bands. (RFP 008) Cost decrease of \$30,731	(\$30,731)					
		RFP 057 -- COP 070 -- Add 480VAC 3-phase power service, disconnects, conduit, and cabling for the Maintenance Building Bridge Crane. (DC 074) Cost increase \$6,395	\$6,395					
		RFP 058 -- COP 076 -- Add remote valve actuator control stations for the two butterfly valves located in the Flow Control Vault. (DC 072) Cost increase \$12,007	\$12,007					
		RFP 059 -- COP 077 -- Increase size of four (4) ozone side stream motors from 25 HP to 40 HP and increase size of power feed conduits and cables. (DC 059) Cost increase \$14,540	\$14,540					
		RFP 060 -- COP 078 -- Add precast drain outlet into the onsite detention basin and 90-feet of 24-inch storm drain pipe to drain the southwest corner of site. (DC 077) Cost increase \$40,378	\$40,378					
		RFP 061 -- COP 080 -- Modify the Olive Avenue site entrance to provide a paved truck turn-around area on the street side of the security gate. (DC 069) Cost increase \$21,272	\$21,272					
		WCD 009 -- COP 050 -- Provide soil cement treatment to stabilize saturated subgrade materials in Olive Avenue. (FO 003) Cost increase \$73,483	\$73,483					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		WCD 010 -- COP 072 -- Relocate approximately 181 feet of 12-inch private irrigation pipe, including three 23-inch standpipes, found in the intersection of Armstrong Ave and Floradora Ave. This pipeline was not shown on the drawings. (FO 005) Cost increase \$32,081	\$32,081					
		WCD 011 -- COP 073 -- Provide temporary relocation of an existing direct-buried telephone line on Armstrong Ave. This telephone line was not shown on the drawings. (FO 004) Cost increase \$5,679	\$5,679					
		Adverse Weather Days: Add three (3) calendar days to contract in recognition of accumulated Excess Adverse Weather Days for calendary year 2017.	\$0	3				
CCO 011	Contract Change Order No. 11	COR 023 -- COP 081 -- Relocate and modify the filter underdrain access covers. (RFI 0268) Cost increase \$16,755	\$16,755					
		COR 024 -- COP 089 -- Modify the Operations Building HVAC grills by providing T-Bar grill adaptors and remote linkage dampers for balancing. (RFI 0359) Cost increase \$6,347	\$6,347					
		COR 025 -- COP 088 -- Add conduits and outlets in the Operations Bldg. copy room.. (RFI 0339) Cost increase \$7,263	\$7,263					
		RFP 038 -- COP 082 -- Add conduits and junction boxes at all doors to accommodate the security system design and minimize subsequent costs associated with installation of door security system components. (DC 048.1) Cost increase \$80,119	\$80,119					
		RFP 062 -- COP 086 -- Provide additional electrical/control equipment, conduits, and cables to support the site sewer discharge metering flume. (DC 071) Cost increase \$80,553	\$80,553					
		RFP 063 -- COP 087 -- Modify the plant potable water supply backflow prevention system by deleting the two 16-inch centralized backflow prevention devices and adding 10 decentralized backflow prevention devices in dispersed locations to meet the pressure requiremetns of the Fresno Fire Department. (DC 078.1) Cost increase \$117,627	\$117,627					
		WCD 012 -- COP 083 -- Provide a connection to the distribution system at a 16-inch water line on Olive Avenue east of Armstrong Avenue. This connection from the easterly end of the new 48-inch treated water main will improve service and allow circulation of water in the treated water main. (FO 007) Cost increase \$18,544	\$18,544					
		WCD 013 -- COP 084 -- Modify the alignment of the new 16-inch distribution water line on Fowler Avenue south of Olive Avenue to accommodate unmarked utilities. (FO 008) Cost increase \$21,256	\$21,256					
		WCD 014 -- COP 085 -- Subsequent to bidding the SESWTF work, AT&T decided to install new underground conduits in the Fowler/Olive intersection. This change required sequencing coordination during the installation of water/sewer/storm drain pipelines and rebuilding of the Fowler Avenue and Olive Avenue intersection with AT&T. (FO 009) Cost increase \$21,211	\$21,211					
CCO 012	Contract Change Order No. 12	RFP 064 -- COP 090 -- Add design configuration, construction, and implementation of a complete Security System for the SESWTF and Kings River Pipeline Diversion Site. The security system conforms to the U.S. Department of Homeland Security 2010 Water Sector Specific Plan for critical infrastructure strategies for drinking water facilities. It is an integrated system including cameras, keyed entry devices, motion detectors, intrusion monitors, and a central control station. (RFP 010) Cost increase of \$990,191	\$990,191					
CCO 013	Contract Change Order No. 13	COR 026 -- COP 092 -- PG&E requested that Contractor provide required compound meter NETA testing to expedite the meter installation and connection of the electrical substation to the PG&E transmission grid. PG&E will credit the City for this cost which was intended to be borne by PG&E. Cost Increase \$2,223	\$2,223					
		COR 027 -- COP 096 -- Install 6"x6"x4" J boxes on the flocculator mixer motor to accommodate 1.5" feeder conduits per design. (RFI 349)	\$7,333					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 028 -- COP 095 -- Install hot standby module and redundant processor at each control valve station. (DC 041)	\$57,124					
		COR 029 -- COP 094 -- Install additional outlets and lighting in Ops Building Attic space to accomodate servicing of HVAC equipment. (RFI 392)	\$21,657					
		COR 030_COP 097_Install SST safety chains at two locations in the Ozone process area. (DC 086)	\$3,481					
		COR 031_COP 098_Increase the size of the feeder breakers and cable for the Cathodic Protection Power Panels. (RFI 384)	\$8,203					
		COR 032--COP 099--Provide and install Floor Drain Trap Seal on floor drains with p-traps in the Chemical Building. (DC 076)	\$1,143					
		COR 033--COP 100--Install remote indicating transmitters at Flowmeters 20.0111 and 20.0121 in the Pretreatment Gallery. (DC 085)	\$10,437					
		COR 034--COP 101 -- Change the specified MOXA Nport 5232 ethernet to 485 converter to a MOXA MGate 3170 per the manufacturer's recommendation.	\$3,285					
		RFP 065 -- COP 093_Add outdoor feature lighting to illuminate the flagpole in front of the Operations Building so the flag does not need to removed each day.	\$6,814					
		WCD 016 -- COP 067.1 -- Provide soil cement treatment to stabilize saturated subgrade materials in Armstrong Avenue. (FO 006)	\$42,655					
Draft CCO 014	Draft Contract Change Order No. 14	COR 035 -- COP 102 -- This item provides a credit to the City for extra inspection services incurred due to multiple test failures of a cathodic protection ground bed well.				(\$16,428)		
		COR 036 -- COP 104 -- This item modifies the structural soffit design detail for the Maint Bldg covered storage area. Additional metal framing was required to meet architectural intent. (RFI 378)				\$3,718		
		COR 037 -- COP 105 -- This item modifies the HVAC ducting and associated supports to avoid conflict with adjacent wall partitions (fence). (RFI 398))				\$525		
		COR 038 -- COP 106 -- This item modifies the locking mechanism and hardware on the access gate to the Maintenance Bldg storage area to provide both keyed access and electronic keypad access. (RFI 403)				\$1,197		
		COR 039 -- COP 107 -- This item adds above-ground post indicators to the dedicated fire water line shut-off valves. This change is made at direction of the Fire Deptmentto provide with a visual open/close status of critical valves. (RFI 404)				\$18,513		
		COR 040 -- COP 111) -- This item modifies the routing of the HVAC condensate drain piping in the Chemical Building to avoid potential for condensate liquid to enter any electrical equipment. (RFI 397)				\$1,336		
		COR 041 -- COP 121 -- This item adds a water stopping epoxy application to seal the joints of the Filter Overflow Baffle wall. This joint was installed per Contract Drawings without a waterstop, but subsequent consideration by the Design				\$2,358		
		RFP 065 -- COP 103 -- This item replaces the specified (hold on -- release off) laboratory water sample faucet valves. with continuous flow (on -- off) faucet valves per the City request. (DC 099)				\$2,499		
		RFP 067 -- COP 108 -- This item modifies the virtual network and communications software configuration to provide a level of security consistent with City standards for data protection. (DC 090)				\$17,364		
		RFP 068 -- COP 109 -- This item adds a 12-count fiber optic cable from the SESWTF CM Office to the SESWTF Administration/Operations Building. The 12-count fiber optic cable will meet the plant's minimum requirements on an interim				\$3,213		

## Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 069 -- COP 110 -- This item adds a turbidity analyzer to monitor water quality on treated water just prior to it being pumped into the distribution system. This data requirement results from recent agreements with state regulators on water				\$13,402		
		RFP 070 -- COP 112 -- This item adds safety signs above submerged access hatches between pretreatment basins. (DC 095)				\$3,261		
		RFP 071 -- COP 114 -- This item provides retaining wall footing details that are not included in the Contract Drawings. (DC 087)				\$4,074		
		RFP 072 -- COP 116 -- This item adds bollards around the perimeter of the deisel fueled electric generators as directed by the Fire Department inspection. Bollards were not included in the Contract Drawings that were intially approved by the Fire				\$25,649		
		RFP 073 -- COP 117 -- This item adds handrail gates and access ladders into the Pretreatment Basins for safe access during routine maintenance of the plate-settler mechanisms. (DC 101)				\$13,374		
		RFP 074 -- COP 118 -- This item adds screen mesh covers for various concrete channel openings to prohibit birds (barn swallows) from nesting and introducing potential contaminants to the water. (DC 094)				\$114,091		
		RFP 075 -- COP 120 -- This item modifies the filter water level ultrasonic transducers by adding remote displays on the operator deck. This modification provides safe worker access for routing calibration and reading. (RFP 012)				\$14,086		
		RFP 076 -- COP 122 -- This item added an additional eyewash was necessary to be installed to meet eyewash distance requirements to and from chemical tanks. (DC 100)				\$15,782		
		RFP 077 -- COP 123 -- This item modifies vent pipes on all Chemical Storage tanks to provide "goose neck" tops with insect screens in lieu of the straight pipe vents shown on the Contract Drawings. (DC 098)				\$9,254		
		RFP 078 -- COP 124 -- This item modifies the CO2 system piping to eliminate a cross connection between potable (UW1) water and non-potable utility water (UW2). (DC 089)				\$20,849		
		RFP 079 -- COP 125 -- This item adds a hose Bib at the NE corner of Chemical Building as a necessary support to the adjacent eye-wash station. (DC 104)				\$2,237		
		WDC 016 -- COP 105 -- This item relocates a single site light pole near the south entrance to mitigate a potential "climb-point" for unauthorized site access. (FO 016)			\$7,916			
		WCD 017 -- COP 113 -- This item changes the accent wall color in the Administration/Operations Building conference room to more closely match the overall building color scheme. (FO 017)			\$456			

# Construction Contract Change Item Descriptions (CID)

Project Name: **Phase 2 Regional Transmission Main - Segment A1**  
 Project Number: **WC00065**  
 Data Date: **04/30/18**

	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$28,471,884	\$28,171,884	500
Approved Contract Change Orders:	\$376,859	\$376,859	0
		1.34%	
Current Contract Value:	\$28,848,743	\$28,548,743	500



APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Total</b>			<b>\$376,859</b>	<b>0</b>	<b>\$144,094</b>	<b>\$0</b>	<b>\$181,480</b>	<b>0</b>
<b>Change Order Requests</b>								
COR 023	Electrical work at Garden and Olive	The electrical work at Olive and Garden was not included in the original bid for the project and is not listed in the current Schedule Of Values.					\$40,000	
COR 028	NSF-61 Gaskets	Contractor is requesting compensation for costs associated with the repair of leaks found at flanged joints throughout the project. The leaks were found to be caused by the Owner-requested gaskets which were required for this project for their NSF 61 rating.					\$211,006	
<b>Requests for Proposal</b>								
RFP XXX	Inspection Overtime	As per the General Conditions, Contractor is responsible to pay the City of Fresno for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays and hours worked by the inspector other than those of the normal City working days.					(\$69,526)	
<b>Work Change Directives</b>								
<b>None</b>								
<b>Change Orders</b>								
CCO 001	Contract Change Order No. 1	COR 001 For safety reasons, the Contractor proposes adding crash cushions at the leading edge of concrete barrier wall (K-rail) near live-traffic lanes.	\$40,381					
		RFP 001 The City provided a site for staging for the RTM projects prior to Contract Bid. This site is for storage of materials and field office trailers. The power for the field office trailers was to be supplied by overhead electric lines; however, it has been determined that the power lines only contain high-voltage power. This RFP is for providing metering cabinets, associated electrical work for bringing the high voltage power onto the site and transforming power supply to 110V for the field offices.	\$17,202					
		RFP 002 Proposal to modify the manways in the RTM pipe (for access to the pipe interior) for safer ingress/egress.	\$17,151					
		RFP 004 City requested that additional joint assemblies be furnished by the Contractor to enable efficient adjustment of pipeline alignment during construction, if required due to unknown utility conflicts. This will reduce cost risk associated with potential unknown conditions.	\$12,159					
		WCD 003 Modify traffic control to create entrance for Beacon Gas on Olive Ave.	\$1,389					
CCO 002	Contract Change Order No. 2	COR 003 Contractor pursuing additional costs associated with furnishing special notification signage to address public outreach concerns for businesses along the project alignment.	\$3,171					
		COR 005 Increased traffic congestion caused by road closure required traffic flagging to alleviate gridlock at intersections near Gallo and Fwy 180.	\$36,959					
		RFP 003 The specifications require Paleontological Monitoring by the Contractor consistent with the City environmental impact report. Cost to be borne by City.	\$107,901					
		WCD 002 Per City's request, MCI to provide a crossing guard at the intersection of Peach Street and Olive Avenue for the duration of work involving the signal modifications that are set to "Flashing Red". The purpose of the crossing guard is to assist students walking to Turner Elementary; however, this Work Change Directive and Contractor's proposal, once agreed, shall be used for any future instances that may require a school crossing guard.	\$14,057					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		WCD 006 Per SJVRR requirements, the Contractor was directed to install a steel casing to surround RTM pipe segments in the vicinity where abandoned railroad tracks are located on Maple Avenue. The requirement of a casing pipe was not identified until after the Contract was bid and thus not shown in the Project Plans.	\$76,460					
		WCD 009 The Contract specified flange gasket materials that are not NSF-61 certified. Contractor was directed to install NSF-61 certified gaskets.	\$17,253					
CCO 003	Contract Change Order No. 3	WCD 014The Contractor has been directed to move their excavation north to allow for the removal of a 10" abandoned main. By moving their trench north, the abandoned 10" main will lay within the trenching of the Contractor, allowing for its removal without the need for extra excavating.	\$35,998					
		COR 009 - During construction, the Contractor encountered two 24-inch EJ Gallo steel irrigation lines at Olive and Sunnyside. The Contractor was given direction to install the RTM deeper underneath the irrigation lines. In order to do so, the Contractor needed to remove two segments of RTM pipe.	\$20,152					
		COR 010 - The Contractor broke unmarked PG&E electric cables not shown on the plans on Olive Ave. at Sta. 657+91 (700' west of Sunnyside). PG&E determined that the cables were not live, and once confirmed, the Contractor sawcut and removed the cables and resumed RTM installation.	\$5,343					
		COR 011 -The Contractor broke unmarked PG&E electric cables not shown on the plans on Olive Ave. at Sta. 654+78 (1000' west of Sunnyside). PG&E determined that the cables were not live, and once confirmed, the Contractor sawcut and removed the cables and resumed RTM installation.	\$2,514					
		COR 013 - During RTM installation, the Contractor encountered 1-1/2" unmarked gas service and a 3/4" unmarked water service that were not shown on the plans at Olive and Ninth. The location of the utilities precluded the Contractors ability to properly shore the excavation with materials onsite.	\$5,259					
		COR 012 - During RTM installation, the Contractor encountered three unmarked PG&E gas mains located between Station 492+62 and 492+38 on Olive Ave. west of HWY 168. None of the PG&E mains were broken, however, additional work was necessary in order to excavate, support and shore the trench.	\$14,279					
		COR 014 - Eight RTM pipes were improperly installed such that the welding seams from the manufacturer align at the pipe joints. The Contractor proposes a credit back to the City of \$12,000 per joint.	(\$96,000)					
CCO 004	Contract Change Order No. 4	COR 015 - During pipe trench excavation, Contractor broke a 4" sewer main that was not shown on the plans. Costs include downtime, cleanup, and repair of the unknown sewer line conflicting with RTM installation on Olive, 300 ft. east of Maple, station 509 + 07.	\$3,165					
		COR 016 - The Contractor needed to perform additional potholing to locate possible utility conflicts. A 6" sanitary sewer was located at station 508 + 70, 200 ft. east of Maple on Olive Ave. The 6" sanitary sewer required additional support during excavation. The Contractor also located an unknown sanitary sewer in the same area at station 507 + 70. The Contractor relocated an additional (3) 4" sanitary sewer services in order to install the RTM.	\$13,997					
		COR 017 - During pipe trench excavation, Contractor broke two unknown water services located on Olive Ave. and the HWY 168 overpass. The two services struck and repaired were a 3/4" water service at station 496 + 00 and a 1-1/2" water service at station 495 + 49.	\$2,199					



# Construction Contract Change Item Descriptions (CID)

Project Name: **Phase 2 Regional Transmission Main - Segment A2**  
 Project Number: **WC00065**  
 Data Date: **04/30/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$18,204,180	\$17,904,180	500
Approved Contract Change Orders:	\$211,116	\$211,116	0
		1.18%	
Current Contract Value:	\$18,415,296	\$18,115,296	500

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$211,116	\$0	\$245,853	\$0	(\$135,250)	0
Change Order Requests								
None								
Requests for Proposal								
RFP XXX	Inspection Overtime	As per the General Conditions, Contractor is responsible to pay the City of Fresno for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays and hours worked by the inspector other than those of the normal City working days.					(\$135,250)	
Work Change Directives								
None								
Change Orders								
CCO 001	Contract Change Order No. 1	RFP 001 Proposal to modify the manways in the RTM pipe (for access to the pipe interior) for safer ingress/egress.	\$9,144	0				
		RFP 002 Traffic control changes necessary for safe access to/from San Joaquin Memorial High School during pickup and drop-off. Also, additional signage for 4-way stop signs at Floradora and Fresno Street.	\$9,131					
		RFP 003 Three unknown conduits were discovered by the Contractor prior to construction at the tunneling of McKinley and Blackstone. These conduits are in direct conflict with the installation of the work shaft for the tunneling construction. No utility claims these conduits, and the Contractor is currently unable to construct the tunnel as designed, and also cannot proceed with pipe fabrication. This RFP is issued to Floyd Johnston Construction (FJC) for the purpose of re-exposing the unknown utilities and tracing the utilities using a utility locator equipment in order to either confirm utility ownership or utility abandonment.	\$4,009					
		RFP 004 The Owner requested to relocate the blow-off assembly at Station 249+63 to the left of the section line and station line to avoid conflict with the existing concrete median island. The Contractor shall ensure that the blow-off assembly is located in the center of the travel lane to avoid vehicle wheel paths.	(\$3,000)					
		WCD 001 Prior to construction, the Contractor located (previously unidentified) utilities that were in conflict with the installation of the Contract Work. Realignment of tunneling pits were necessitated to avoid conflicting utilities.	\$14,801					
		WCD 002 Prior to construction, the Contractor excavated test-holes to locate utilities that may conflict with the RTM pipe. On Palm, between Belmont and McKinley, the Contractor found utilities in conflict. This work change directive is for modifications to the RTM pipe prior to fabrication, and for the costs associated with installing the RTM deeper than the original design.	\$126,328					
		WCD 003 The RTM pipeline is steel, but has smaller diameter ductile-iron branches that are used to drain and bleed air from the RTM pipeline. At the branch connections, plumbing kits are installed in order to electrically separate/isolate the steel pipe from the ductile iron pipe in order to minimize possible future pipe corrosion. This RFP is for the Contractor to install permanent monitoring points at these branches to evaluate possible corrosion.	(\$31,250)					
		WCD 004 The specifications require Paleontological Monitoring by the Contractor consistent with the City environmental impact report. Cost to be borne by City. Number of monitoring days is to be determined.	\$23,749					
		WCD 005 As specified in the approved Traffic Control Plans, the Contractor shall furnish and install two additional CMS boards to direct Olive traffic through Belmont Avenue due to concurrent traffic control on other RTM segments.	\$2,445					



# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		WCD 006 When westbound McKinley was closed east of Blackstone, traffic backed up on the side streets of Effie and Peralta. City of Fresno Water Division had significant impacts to their ability to access their Water Yard. After considering all other options, this work change directive was issued to the RTM Contractor to provide two flaggers to control traffic.	\$3,156					
		COR 001An unknown conduit was discovered by the Contractor prior to construction at the tunneling of the FID dry creek canal in Fresno south of McKinley. This conduit is in direct conflict with the installation of the work shaft for the tunneling construction. No utility claimed the conduit, and the Contractor is unable to construct the tunnel as designed. This RFP is issued to Floyd Johnston Construction (FJC) for the purpose of re-exposing the conduit in order to either confirm utility ownership or utility abandonment.	\$3,153					
		COR 004 An unknown and unmarked 24-inch RCP storm drain pipe was damaged during excavation. This pipe was not indicated on the plans, SUE, or by USA service locator marks. Cost is for the repair to return the utility to service.	\$4,327					
CCO 002	Contract Change Order No. 2	WCD 007 During construction, additional work was necessary in order to repair the existing roadway in Fresno Street and Olive Avenue. This work became necessary because the restoration work for the RTM construction abutted defective concrete and unsuitable soils that could have contributed to the failure of the newly restored roadway or created hazardous roadway conditions.	\$5,673					
		WCD 008 During construction at the intersection of Olive & Fresno St., PG&E mismarked their gas facilities and once located, PG&E stipulated work within two feet of existing gas utilities could not be performed by machine excavation. Per the changed requirements, the Contractor exposed the 6 and 12-inch gas utilities by methods of hydro vacuum excavation. Without any advanced notice, PG&E stopped the Contractor from performing machine-excavation around their gas mains at Fresno and Olive. The Contractor had crew and equipment onsite that necessarily was placed on stand by.	\$40,412					
		WCD 009 A fiber optic utility at Fresno and Hammond was potholed during construction and was found to be in conflict with the RTM. The pipeline was raised to cross over the fiber optic utility. This adjustment in elevation necessitated the installation of a combination air/vacuum release valve.	\$12,038					
		WCD 010 Since McKinley Avenue was recently paved between Blackstone and Wishon, after bid (but prior to construction) Public Works requested additional 2" grind and overlay paving. Limits were established by City Engineer and City CM staff.	\$96,922					
		WCD 014 Approximately 630 SF of pre-existing damaged concrete pavement along Fresno Street between Olive and Floradora required replacement.	\$12,955					
		WCD 015 Due to inconsistency of field conditions with project plans, minimum separation of 12" could not be maintained between the RTM and an existing PG&E facility. To ensure protection of the facilities, cathodic protection bonding wires were furnished and installed by PG&E. To avoid prolonged impacts to traffic and disturbance of finished paving, excavation and restoration for this installation was completed by Floyd Johnston.	\$1,697					
CCO 003	Contract Change Order No. 3	RFP 005 - Proposal to cut and seal a segment of the RTM in order to isolate for testing and disinfection such that the RTM segment can be tested, disinfected, and placed into service in spite of anticipated delays associated with High Speed Rail coordination. Proposal shall also include costs associated with additional disinfection and reconnection of remaining RTM segment including traffic control, backfilling, compaction, and restoration.	\$10,882					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 005.1 - Cost of materials associated with RFP 005. Materials have long lead time, therefore were approved to be ordered in advance.	\$9,408					
		WCD 001.1 - A utility conflict exists between the design alignment of the RTM with AT&T fiber optic facilities at the FID Canal on H street (Sheet 11 of the Contract Plans). The proximity of the launching and receiving pits of the RTM Segment A2 tunneling operations to the existing AT&T manholes at each side necessitate a realignment of the RTM.	\$8,695					
		WCD 011 - The Contractor shall submit for approval, and shall furnish and install 24" Garlock Style 3760 NSF 61 certified gaskets at 18 manway locations in place of the specified non-compliant 24" Garlock Bluegard 3300 gaskets.	\$5,595					
		WCD 012 - City traffic control conduits located at Station 228+60 (at McKinley and Van Ness) and at Station 241+60 (near McKinley and San Pablo) were damaged during excavation. Conduit was neither marked nor shown on the Plans. Contractor repaired conduit per City Standards. Work included pulling wires, inspection of wires, and replacement of wires and conduit as necessary. All performed work was inspected by City TSSI.	\$6,640					
		WCD 013 - Due to heightened traffic congestion from westbound traffic near McKinley and Clark, the City requested Floyd Johnston Construction provide one additional full-time flagger in order to control work zone access and enhance public safety.	\$6,919					
		WCD 016 - While excavating in McKinley between Blackstone and Maroa, an unknown and unmarked 12" sewer lateral was hit at approximately Station 236+37. The elevation of the RTM was in conflict with the elevation of the sewer lateral, therefore had to be lowered by approximately 35".	\$17,260					
		WCD 017 - Sawcut, remove, and dispose of approximately 37LF of existing damaged concrete gutter pan and 1-foot width of adjacent AC pavement between Stations 255+38 and 255+75. Replaced per City Standards.	\$1,443					
		WCD 018 - Elevation of existing sewer lateral at Station 254+80 was found to be deeper than shown on the plans and in conflict with the proposed RTM. Contractor was required to locate and expose the lateral which was also found to be out of conformance with City Standards. Contractor was required to bring the existing sewer lateral into conformance and realign the lateral to clear the RTM.	\$13,105					
		WCD 020 - A stubbed 4" gas main located at station 113+40 is located further to the west than is shown on the contract plans and is located within the RTM trench. The excavation was halted while PG&E investigated to determine whether the gas main was live. After PG&E determined that the 4" gas main was live, the contractor was directed to realign the RTM 18" to the west to avoid conflict with the gas main.	\$10,715					
		COR 002 - These costs are associated with protecting and supporting utilities during construction that were not shown on the Contract Plans. McKinley - Fresno to Clark and Blackstone to Echo; Olive Avenue; Fresno Street; Palm - McKinley to Floradora.	\$26,747					
CCO 004	Contract Change Order No. 4	RFP 006 - Descope Installation of 24" RTM Station 10+00 to 17+25 - Credit associated with descoping the installation of approximately 725 linear feet of 24" RTM between H Street and G Street. Cost of descoped pipe and casing to remain borne by Owner, however, proposal shall include costs for storage and transportation of such materials. Costs associated with lowering the RTM below existing 60" storm drain as per redesign shall also be incorporated into the proposal.	(\$241,982)					

# Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
DRAFT CCO 005	Draft Contract Change Order No. 5	COR 02.1 - Costs associated with protecting and supporting utilities during construction that were not shown on the Contract Plans.			\$33,792			
		WCD 019 - During excavation for the RTM at the intersection at Palm Ave. and H Street, the Contractor encountered previously installed AT&T ducts at station 60+75. The AT&T ducts were neither marked nor shown on the plans and are located within the east side of the RTM excavation. In order to perform additional exploratory work, the Contractor had to widen their excavation and remove the slurry covering the AT&T ducts. The removal of the slurry required additional hauling and disposal. The Contractor exploratory work determined that the top of the AT&T duct's concrete encasement was approximately 11' deep, with the bottom of the RTM approximately 14.5' deep.			\$38,561			
		WCD 019.1 - After performing additional exploratory work to determine the extent of the conflict with the AT&T duct at station 60+75, the Contractor was directed to widen their excavation 6' and realign the RTM 6' to the west to avoid conflict with the AT&T duct. The realignment required the Contractor to perform additional excavating, provide additional slurry, perform additional backfill, and additional pavement restoration.			\$34,231			
		WCD 021 - During excavation of the tunneling pit at station 58+36.84 on H street, the Contractor encountered previously installed AT&T ducts apparently limited to the southeast corner of the pit excavation. The ducts were unmarked and not shown on the plans. Exploratory work was performed by the Contractor to determine the extent of the conflict. If the duct is in conflict and the pit can be shifted within three feet without modification to tunnel alignment, contractor shall perform such additional excavation.			\$30,164			
		WCD 023 - Due to schedule constraints, Contractor is required to perform additional work as part of final acceptance and commissioning of the RTM. Additional work includes dewatering the main, relocating a backflow preventer, chlorination and acidification of the water, installation of sample ports, and sampling and testing.			\$114,269			
		WCD 024 - Contractor furnished and installed tamper resistant hex key bolts at each installed cathodic protection test station.			\$655			
		WCD 025 - Due to the installation of a combination air valve assembly in the sidewalk located in front of Fresno City College (Stat. 234+64), additional concrete sidewalk was needed in order for the sidewalk to achieve ADA compliance. The contractor rerouted existing sprinklers and provided sod restoration.			\$2,845			
		WCD 026 - Contractor furnished and installed three advanced detector loops westbound on McKinley Ave, east of Blackstone.			\$469			
		RFP 006.1 - Per Contract Change Order 4, construction of the 24" RTM south of Highway 180, between G Street and H Street (Sta. 10+00 to Sta. 17+19), was not possible within the RTM Segment A2 construct completion time. The City agreed to purchase all descoped materials that already had been purchased by the Contractor. Not all materials paid for in Contract Change Order 4 were delivered by the Contractor to the City. The City is receiving a credit for all materials not delivered.			(\$3,383)			
		RFP 007 - RTM pipes were improperly installed such that the welding seams from the manufacturer align at the joint between pipes 593 and 594 (Sta. 207+28.21). The Contractor proposed a credit to the City.			(\$5,750)			

# Construction Contract Change Item Descriptions (CID)

Project Name: **Phase 2 Regional Transmission Main - Segment B&C**  
 Project Number: **WC00065**  
 Data Date: **04/30/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$11,490,484	\$11,190,484	500
Approved Contract Change Orders:	\$0	\$0	0
		0.00%	
Current Contract Value:	\$11,490,484	\$11,190,484	500

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$0	0	\$0	\$0	\$2,225	0
<b>Change Order Requests</b>								
None								
<b>Requests for Proposal</b>								
RFP 001	Surplus Materials for VAS/Vidmar Use	The City of Fresno owns materials that can be used by VAS/Vidmar on the RTM Segments B & C project, contingent upon VAS/Vidmar handling, storing, and providing warranty for the materials consistent with the product specifications. VAS/Vidmar will provide a proposal for cost credit to the City of Fresno. The City of Fresno will deliver materials to the RTM Segment C Yard, and will provide security until VAS/Vidmar mobilizes. At that point, VAS/Vidmar will be responsible for security of the materials.					\$0	
RFP 002	Install Tamper Resistent Hex Bolts at CP Test Stations	Furnish and install bolt down frames, lids, and tamper resistant hex bolts at all installed CP test station locations.					\$500	
<b>Work Change Directives</b>								
WCD 001	Temporary Construction Fence-RTM Yard	Temporary fencing is needed along north property lines of the RTM construction yard for security. The Contractor is responsible for providing temporary fencing, but the Construction Manager recognizes that mobilization is expected in late May. The Contractor is directed to provide temporary fencing from 3/22/18 to 5/21/18. Once mobilized, the Contractor shall be expected to maintain temporary fencing as part of the mobilization Bid item, in accordance with the Contract Documents.					\$1,725	
<b>Change Orders</b>								
None								

# Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1B**  
 Project Number: **TC00096B**  
 Data Date: **04/30/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$9,341,491	\$9,041,491	1000
Approved Contract Change Orders:	\$0	\$0	0
		0.00%	
Current Contract Value:	\$9,341,491	\$9,041,491	1000

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$0	0	\$274,801	(\$138,945)	(\$28,841)	37
Change Order Requests								
COR 003	Claim - Agency Permitting Impacts	The Contractor has provided written notice of intent to pursue compensation for schedule delays and cost impacts associated with County of Fresno permit conditions and traffic control requirements, as well as additional railroad crossing permitting requirements. Merit for County of Fresno related issues has not yet been determined. At this time, the Contractor has provided only a general notice and has not yet identified specific changed conditions, costs, and other supporting information needed for merit review and change determination.					TBD	TBD
COR 005	Claim - Extended Irrigation Season	Fresno Irrigation District extended the end of the 2016 irrigation season from August 31st, as identified in the contract plans and specifications, to September 30th.						30
Requests for Proposal								
RFP XXX	Backcharge of Inspector Overtime	As per page 2.8 of the General Conditions regarding Overtime Inspection Fees, the Contractor shall pay for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays, and hours worked by the inspector other than those of the normal City working day.					(\$28,841)	
Work Change Directives								
None								
Change Orders								
Draft CCO 001	Draft Contract Change Order No. 1	COR 001 Potholing for Abandoned Chevron Line - After award of the construction contract, Chevron informed the City of an abandoned crude oil pipeline located within the railroad right-of-way at two of the recycled water pipeline crossings. The Contractor was directed to pot hole and verify the location of the crude oil pipeline crossings in order to confirm no conflict with recycled water pipeline construction.			\$4,381			
		COR 002 Revised Trench Credit Costs - The Contractor proposed changes to contract requirements for pipeline trench size and configuration. Proposed changes were reviewed by the Engineer and found to be acceptable. The changes resulted in reduction of cost to the Contractor and savings to the City.				(\$87,201)		
		COR 004 Fiber Optic Conduit Crossing at Marks Ave - The Contractor proposed an alternate method of construction for the fiber optic conduit crossing at Marks Avenue, similar to methods used for other similar crossings on this project. Use of the alternate method will simplify construction sequencing, facilitate County permitting, reduce traffic impacts, and minimize delay to execution of the work.			\$11,352			
		COR 007 Debris in Trench at 14-Inch PVC in Belmont/Marks Intersection Garney encountered concrete debris in the trench excavation near the intersection of Marks and Belmont but did not provide a preliminary Notice of Change or any subsequent timely backup. During negotiations Garney presented cost sheets requesting compensation for impacts on December 27th, 28th, and 30th of 2016 and on January 3rd, 5th, 6th, and 21st of 2017. The CM verified with the project Inspector that Garney was potentially impacted by the debris and agreed that Garney was impacted on six (6) days. The resulting compensation is \$24,000 and two (2) days of time extension.			\$24,000			2

## Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 009 Blythe Bore Pit Permeation at Houghton Canal - Garney encountered water seepage into the jack and bore pit at approximate Station 132+00. The City's Inspector stopped work until the situation could be evaluated and a remedy implemented. Agreed that Garney was impacted on two days: March 17th and March 18th for 4 hours and 5 hours respectively. The resulting compensation is \$9,273 and one (1) day of time extension.			\$9,273			1
		COR 010 Removal of Concrete Structure at Cornelia and Belmont - The Contractor encountered an unmarked, buried concrete structure while excavating the receiving pit for jack & bore at the intersection of Belmont & Cornelia. The City Inspector confirmed that the Time & Material sheets accurately reflect the labor/equipment required to remove the obstruction. Agreed to pay the Contractor's cost request less the mobilization charge for their Subcontractor (Cal Valley) to pave the excavated trench since the installation required them to mobilize. The resulting compensation is \$34,027 and three (3) days of time extension.			\$34,027			3
		RFP 001.1 Additional Steel Pipe and Water Service After award of the construction contract, the final tie-in point was moved to accommodate construction phase changes to the end-point of the SW1A recycled water pipeline. The revised tie-in location resulted in an increased depth and length to the SW1B piping approach run. Additionally, a recycled water service connection assembly was added on Belmont Avenue for the City municipal service yard neighboring City Fire House No.19.			\$52,224			
		RFP 002 Additional Water Service Connections Two future users for recycled water service were identified along the Cornelia Avenue alignment after award of the construction contract. Recycled water service connection assemblies were added to the work in order to accommodate the identified future users.			\$33,670			
		RFP 003.1 Fiber Optic Conduit Railroad Crossings Additional railroad agency requirements were identified after award of the construction contract that required changes to the installation alignment for the fiber optic conduit at two railroad crossing locations. In order to mitigate extra cost and further delays to the work, the fiber optic conduit crossings were deleted from the project. The fiber optic conduit crossings are planned for completion under separate future contract.				(\$30,736)		
		RFP 004 Commercial Truck Fill Stations - The project work included five recycled water fire hydrants. After award of the construction contract, State Water Resources Control Board permitting requirements were identified, including requirements for the City to obtain approval of a Title 22 Engineering Report from the Division of Drinking Water. The required Engineering Report to demonstrate firefighting department training and protocols associated with the use of recycled water was not in place so the City directed the Contractor to change the fire hydrant assemblies to commercial truck fill stations in order to avoid permit compliance issues.			\$10,033			
		WCD 001 Unidentified Telecommunication Conduits - Two buried telecommunication conduits were found to be in conflict with the new facilities during construction. The telecommunications lines were not identified on the project plans. The Contractor was directed to add additional pipe fittings and build the recycled water pipeline under the telecommunication obstacle.			\$9,000			1

## Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 011 Utility Conflicts at Bore Station 132 - The Contractor encountered an unmarked 4-inch conduit on March 2, 2017 when excavating the jack & bore jacking pit at approximate Station 132+00. The conduit was determined to be abandoned, but it was directing a significant quantity water into the excavation. The work was stopped due to flooding and the pit was relocated to mitigate the problem. Agreed that March 2 and March 3, 2017 are compensable to cover cost of excavating/filling the abandoned pit. The original Contract Price covers the relocated pit location. The relocation also required the jack & bore to be lengthened by 20-feet. Since the City Standard Specifications Section 1 TERMS, DEFINITIONS, GENERAL PROVISIONS paragraph 3-2.1.2 page 23 states that Unit Prices apply to all changes until the change exceeds 25% of the Contract Bid Quantities, the City will pay the Contractor \$30,000 as compensation for the 20-foot casing extension. The Contractor resubmitted cost sheets (PCO # B15 Rev 4) to support the agreed COR 011 cost of \$50,841.09.			\$50,841			
		COR 013 Bore Extension at Cornelia and Belmont for Gas Line Conflict - The Contractor encountered a 4-inch gas line (not shown on drawings) on March 1, 2017 when excavating the bore pit at approximate Station 64+80. The gas line was marked and discovered during potholing to determine the exact location. The Construction Manager agreed to relocate the pit 20 feet away and extend the bore to mitigate the conflict. Agreed that the additional 20 linear feet of bore casing would be compensated at Contract Unit price of \$1,800 per linear foot. The Contractor resubmitted cost sheets (PCO # B5b) to support the agreed COR 013 cost of \$36,000.			\$36,000			
		RFP 006 - Contract Bid Item Adjustment: Bid Item No. 22 Blow off Assemblies - The plans show a blow-off assembly located at the connection point of SW1B and SW1C. The blow-off at this location was not needed and was not installed. Therefore, this Bid Item is being adjusted to provide the City with a credit for one blow off assembly. Credit \$5,000.				(\$5,000)		
		RFP 007 - Contract Bid Item Adjustment: Bid Item No. 31 Temporary Trench Resurfacing - This change item deletes an unused portion of the temporary trench resurfacing work from the contract. Bid Item No 31 established a contract unit price with associated quantities and total cost. Substantial Completion for the project has been recorded as 1/12/2018, total quantities and payment amounts have been confirmed and necessary project work has been completed. Therefore, this Bid Item is being adjusted to provide credit to the City of \$7,578.				(\$7,578)		
		RFP 008 - Contract Bid Item Adjustment: Bid Item 34 Contractor's Pollution Liability Insurance - This change item deletes an unused portion of the Contractor's pollution liability insurance allowance. Substantial Completion for the project has been recorded as 1/12/2018 and total payment amounts have been determined. The necessary project work has been completed without expending the full allowance amount. Therefore, this Bid Item is being adjusted to provide credit to the City of \$8,430.25.				(\$8,430)		

# Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1C**  
 Project Number: **TC00096C**  
 Data Date: **04/30/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$4,198,175	\$4,043,175	1000
Approved Contract Change Orders:	\$269,718	\$269,718	0
		6.67%	
Current Contract Value:	\$4,467,893	\$4,312,893	1000

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$269,718	0	\$10,293	(\$71,264)	(\$3,260)	3
Change Order Requests								
None								
Requests for Proposal								
RFP XXX	Backcharge of Inspector Overtime	As per page 2.8 of the General Conditions regarding Overtime Inspection Fees, the Contractor shall pay for overtime inspection charges made for all inspections on Saturdays, Sundays, City Holidays, and hours worked by the inspector other than those of the normal City working day.					(\$3,260)	
Work Change Directives								
None								
Change Orders								
CCO_001	Contract Change Order No 1	<p>RFP 001.1 - After award of the construction contract, high-speed rail development plans within the City were identified that were in conflict with the planned future project route of the recycled water pipeline feed to downtown Fresno. The future downtown design route for the recycled water pipeline was therefore changed, resulting in increased pipe size for a majority of the SW1C piping within Roeding Park. The redesigned SW1C pipeline also included additional recycled water service connection assemblies inside Roeding Park, on Parkway Drive, and along Belmont Avenue to accommodate additional future users identified during the redesign time frame.</p> <p>RFP 002 - Caltrans was identified as a future user for recycled water service at the Highway 99 crossing location after award of the construction contract. A recycled water service connection assembly was added to the work to accommodate planned future Caltrans use.</p> <p>RFP 003 - The project work included two recycled water fire hydrants. After award of the construction contract, State Water Resources Control Board permitting requirements were identified, including requirements for the City to obtain approval of a Title 22 Engineering Report from the Division of Drinking Water. The required Engineering Report to demonstrate firefighting department training and protocols associated with the use of recycled water was not in place so the City directed the Contractor to change the fire hydrant assemblies to commercial truck fill stations in order to avoid permit compliance issues.</p>	\$246,512					
			\$19,193					
			\$4,013					
Draft CCO 002	Draft Contract Change Order No 2	<p>COR 001 Petro Mat Removal - It was revealed during construction, that existing asphalt sections of Belmont Ave. had consisted of a previous overlay of a Petro Mat underlayer. Some areas of Petro Mat deterioration was shedding the remaining layer of asphalt. The City directed Contractor to remove and/or torch any loose delaminated material and continue with overlay asphalt application as originally specified.</p> <p>RFP 005 Additional Recycled Water Service Stub - Beth israel Cemetary on Belmont Avenue was identified as a future user for recycled water after award of the construction contract. A buried recycled water pipe connection stub was added to the work to accommodate future piping into the cemetary.</p> <p>RFP 006 - Contract Bid Item Adjustment: Bid Item No. 25 Insulating Joint Test Station - The plans show an insulating joint test station located at the connection point of SW1B and SW1C. The test station at this location was not needed and not installed. Therefore, this Bid Item is being adjusted to provide the City with a credit for one insulating joint test station. Credit \$1440.</p>			\$2,798			
					\$7,495			3
						(\$1,440)		



## Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 007 - Contract Bid Item Adjustment: Bid Item No. 28 Temporary Trench Resurfacing - This change item deletes an unused portion of the temporary trench resurfacing work from the contract. Bid Item No 28 established a contract unit price with associated quantities and total cost. Substantial Completion for the project has been recorded as 9/19/2017, total quantities and payment amounts have been confirmed and necessary project work has been completed. Therefore, this Bid Item is being adjusted to provide credit to the City of \$60,530.				(\$60,530)		
		RFP 008 - Contract Bid Item Adjustment: Bid Item No. 31 Contractor's Pollution Liability Insurance - This change item deletes an unused portion of the Contractor's pollution liability insurance allowance. Substantial Completion for the project has been recorded as 9/19/2017 and total payment amounts have been determined. The necessary project work has been completed without expending the full allowance amount. Therefore, this Bid Item is being adjusted to provide credit to the City of \$9,294.40.				(\$9,294)		

# Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1C2**  
 Project Number: **TC00096**  
 Data Date: **03/27/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$7,682,290	\$7,382,290	1000
Approved Contract Change Orders:	\$0	\$0	0
		0.00%	
Current Contract Value:	\$7,682,290	\$7,382,290	1000

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$0	\$0	\$147,761	\$0	\$6,500	0
<b>Change Order Requests</b>								
COR 001	FAA Permit	After commencing excavation of the jacking pit on Whitesbridge, it was discovered that authorization from the Federal Aviation Administration was required in order to work within the airport airspace. The Contractor was put on standby until proper permits could be attained. Costs include equipment standby, shoring, demobilization, remobilization, and traffic control.			\$44,156			
COR 002	Concrete Road Below Pavement	While excavating on Whitesbridge near Thorne, the Contractor encountered a layer of concrete beneath the existing asphalt. The combined thickness of both asphalt and concrete measure up to 2 feet in some areas, and may require crew to complete up to 2 sawcutting operations in order to remove.					\$6,000	
<b>Requests for Proposal</b>								
RFP 001	Traffic Rated Blow-off Lids	Contractor shall substitute a traffic rated steel lid in place of a concrete lid for 1 blow-off locations on Whitesbridge Ave (near FID canal) at Station 373+43.					\$500	
RFP 002	Hughes and Belmont POC	The planned 24" butterfly valve as well as the insulated joint and test station at the point of connection (Hughes and Belmont) shall be removed from the scope of work since these items are currently in place at the existing connection stub. As a result, the planned blow-off at this intersection is also proposed to be moved to a lower connection point.					(\$5,000)	
<b>Work Change Directives</b>								
WCD 002	Nielsen Ave Gas Line & Amador St Duct Bank	While potholing along Amador, an AT&T duct bank just west of C Street was found to be in conflict with the proposed 8" RWTM. Contractor was directed to utilize fittings to divert the main under the duct bank then immediately come back up to line elevation. The actual location of the existing utilities on Nielsen were also found to be situated in a way that allowed the Contractor to make the elevation change located approximately 300' east of Hughes without the installation of 11.25 degree bends as shown in the plans. Appropriate credit shall be included in the cost totals to be submitted under this WCD for the eliminated fittings.			\$15,000			
WCD 005	Realignment at Hughes Ave due to Conflicting Utilities	Due to conflicts with existing utilities on Hughes Avenue, the RWTM alignment between Roeding Drive and HWY 180 is being adjusted per plan revisions provided by the design engineer.			\$19,203			
WCD 005.1	Realignment at Trinity St due to Conflicting Utilities	Potholing data along Trinity Street revealed several utilities in conflict with the proposed 24" RWTM. The Contractor shall adjust the vertical alignment of the RWTM on Trinity at the Whitesbridge intersection.			\$8,000			
WCD 005.2	Realignment at Hughes Ave due to Conflicting Utilities	Potholing data along Hughes Avenue revealed several utilities in conflict with the proposed 24" RWTM. The Contractor shall adjust the vertical alignment of the RWTM between the Union Pacific Rail Road and Nielsen Avenue, and between Highway 180 and Whitesbridge Avenue.			\$7,094			
WCD 005.3	Realignment at Whitesbridge Ave due to Conflicting Utilities	Potholing data along Whitesbridge Avenue revealed several utilities in conflict with the proposed 24" RWTM. The Contractor shall adjust the vertical alignment of the RWTM between Hughes and Trinity.			\$16,527			
WCD 006	Additional Blow-off at Station 350+50	Due to revisions made to the RWTM pipeline between Stations 350+7.18 and 362+51.70, an additional blow-off is needed. It will be installed at 350+50, per detail RW-8. The utility box will be installed at 350+50 on the north side of Whitesbridge, and will include a traffic rated lid.					\$5,000	

## Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
<b>Change Orders</b>								
Draft CCO 001	Draft Contract Change Order No. 1	WCD 001 - In order to manage groundwater encountered at lower excavation depths in the trench on Nielsen east of Hughes, the Contractor was directed to install crushed rock in the bottom of the trench as needed, followed by placement of CLSM in the pipe bedding zone. Water was pumped out of the trench as necessary until the RWTM was back on grade where groundwater was no longer present.			\$14,151			
		WCD 002.1 - An AT&T duct located at B Street and Amador was found to be in conflict with the 8" RWTM alignment. The Contractor shall perform additional excavation and utilize fittings to divert the 8" RWTM under the duct bank then immediately come back up to line elevation.			\$9,870			
		WCD 003 - During excavation, the existing 42" sewer main in Fruit Ave. was found to encroach upon the 12" RWTM trench zone. Alignment of the 12" RWTM was shifted to the east for approximately 150 feet to avoid conflict with the 42" sewer main while maintaining adequate clearance from the adjacent 3" gas line. This WCD shall cover the costs for additional potholing performed to identify the limits of the conflict in determining the solution, as well as any minor additional efforts associated with the proximity of the sewer main with the RWTM trench zone.			\$13,761			