



DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION

1910 East University Avenue, Fresno, California, 93721



CONTRACT CHANGE ORDER NO. 1

CONTRACT AWARDED BY: Fresno City Council DATE OF AWARD: April 21st 2016
PROJECT: Friant-Kern Canal Pipeline Project
P.O. NO: FRSNO-0000070590 PROJECT ID NO: WC000038 BID FILE NO: 3372
CONTRACTOR: Mountain Cascade Inc.

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

Description of Requested Change:

- I. CHANGES TO CONTRACT PLANS AND SPECIFICATIONS.
A. This Change Order No. 1 assists environmental biologist with excavation of burrows, receives a credit for tracer wire, addresses consistency of access vaults, adjusts stilling well detail, and provides design credit for removal of exterior grouting. See Page 2 for summary description.
II. CONTRACT PRICE
A. This Change Order No.1 results in a net decrease of \$70,274.26 to the contract price.
III. CONTRACT TIME
B. No time impacts

Table with 2 main columns: STATEMENT OF CONTRACT PRICE and STATEMENT OF CONTRACT TIME. Includes rows for Original Contract Price, Approved Cost Change Orders, Total of all Contract Cost Change Orders, Revised Contract Price, and various completion dates.

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

Acceptance Date: 12/28/16 Contractor: Mountain Cascade Inc.
Accepted By: [Signature] Title: V.P.
If the contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to proceeding with the ordered work.

OWNER APPROVAL

Submitted By: Gentry Karr, Construction Manager Recommended By: Randy Hoffman, Project Manager Date: 12/28/2016
Authorized By: Public Utilities Water Division Manager Date: 1/3/17
Approved By: Public Utilities Director Date: 1/4/2017
Approved By: City Council Minutes of Meeting Dated:

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

ATTEST:
YVONNE SPENCE, CMC
CITY CLERK
By: Cindy Buer 1/5/17 Deputy



DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION



CONTRACT CHANGE ORDER NO. 1
Change Order Details

Change Order Request	Description	Amount	Time increase
1	WCD 001:Excavation on Burrows Mountain Cascade provided Cat 420 or equal w/ 12" bucket and operator to assist Live Oak Associates (LOA) with excavation of burrows that would have been completed by hand. This work was maintained until LOA completely cleared the project area. LOA was also able to request an additional piece of equipment and operator when necessary.	\$ 54,432.86	0
1	RFP 001: Tracer Wire Credit Design Engineer indicated that the tracer wire is no longer needed for this project due to pipe marker located throughout the alignment.	\$ (6,883.00)	0
1	RFP 002: Access Vault Detail In order to be consistent with other recharge Fresno program projects. All 48-inch diameter precast manholes shown in Detail 1 on Sheet 50 shall be filled with drain rock to a depth of 6 inches below the top of access manway blind flange.	\$ 6,233.22	0
1	RFP 003: Stilling Well Detail The stilling well shown in Detail 2 on Sheet 37A of the Plans was changed from a 12-inch to 18-inch diameter stilling well during the bid period. The utility box which was called out as a Christy B65 utility box, or approved equal, is too small for the 18" stilling well. The utility box shall be changed to a Christy N40 Electrical Box with reinforced concrete lid, or approved equal.	\$ 339.66	0
1	RFP 004: Elimination of Diapers In RFI 017 MCI requested to provide a credit for removal of exterior pipe joint grouting due to the complete encasement of the pipeline with CLSM. The City has decided to accept the credit.	\$ (124,397.00)	0
		\$ (70,274.26)	0



DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION
Adverse Weather Delay Days



Agreed Adverse Weather Days

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



DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION

1910 East University Avenue, Fresno, California, 93721



CONTRACT CHANGE ORDER NO. 2

CONTRACT AWARDED BY: Fresno City Council DATE OF AWARD: April 21st 2016
PROJECT: Friant-Kern Canal Pipeline Project
P.O. NO: FRSNO-0000070590 PROJECT ID NO: WC000038 BID FILE NO: 3372
CONTRACTOR: Mountain Cascade Inc.

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

Description of Requested Change:

I. CHANGES TO CONTRACT PLANS AND SPECIFICATIONS.

A. This Change Order No. 2 replaces electrical lights in pre-cast building, adds additional flowmeter cable, replaces fence posts, adds conduit to antenna mast, repays costs associated with paleo monitoring, receives credits for change of coating of pipe specials, and adds solution for hydro-test. See Page 2 for summary description.

II. CONTRACT PRICE

A. This Change Order No.2 results in a net increase of \$53,101.76 to the contract price.

III. CONTRACT TIME

B. No time impacts

STATEMENT OF CONTRACT PRICE		STATEMENT OF CONTRACT TIME		
Original Contract Price	\$ 15,157,862.00		Calendar Days	Contract Dates
Approved Cost Change Orders to Date	\$ (70,274.26)	Contract Notice to Proceed		5/31/2016
Cost of this Change Order	\$ 53,101.76 See (Pg 2)	Calendar Days to Substantial Completion	440	
Total of all Contract Cost Change Orders including this Change Order	\$ (17,172.50)	Calendar Days to Final Completion	500	
Net percentage change in Contract Price from original Contract Price	-0.11%	Computed Date for Substantial Completion		8/13/2017
		Computed Date for Final Completion		10/12/2017
		Time Extension Days For Contract		
		Time extension days this CCO	0	
		Total time extension days previous CCO's	0	
		Total Time Extension Days To Date	0	
		Excess Adverse Weather Days To Date (Pg 2)	0	
		Suspended Work Days To Date	0	
		Revised Substantial Completion Date		8/13/2017
		Revised Final Completion Date		10/12/2017
Revised Contract Price	\$ 15,140,689.50			

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

Acceptance Date: 5/24/17 Contractor: Mountain Cascade Inc.
Accepted By: [Signature] Title: V.P.
If the contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to proceeding with the ordered work.

OWNER APPROVAL

Submitted By: [Signature] Gentry Karr, Construction Manager Recommended By: [Signature] Randy Hoffman, Project Manager Date: 05/24/2017
Authorized By: Public Utilities Water Division Manager Date: 6/6/17
Approved By: Public Utilities Director Date: 6/6/2017
Approved By: City Council Minutes of Meeting Dated: [Signature] Thomas Esqueda

(Council approval required if change order or total change orders exceed 10 percent of contract price or if individual change order)



DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION



CONTRACT CHANGE ORDER NO. 2
Change Order Details

Change Order Request	Description	Amount	Time increase
2	COR 001: Precast Concrete Building Electrical 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	0
2	COR 002: Additional Flowmeter Cable This change for additional cable was a resultant of RFI 095 when it was determined the length of cable shown on the plans was not of sufficient length.	\$ 9,116.35	0
2	COR 004: Split Red Cedar Posts This change is associated with all extra work associated with the corrections necessary to bring the fencing of the Lesher Property into agreement with the Lesher 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 Lesher MOU.	\$ 29,822.59	0
2	RFP 005: Additional Support for Grating at Turnout 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	0
2	RFP 006: Antenna Mast 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	0
2	RFP 008: Asphaltic Coating Credit 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.	\$ (11,068.75)	0
2	RFP 012: Hydro-Test Solution 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.	\$ 19,757.46	0
		\$ 53,101.76	0



DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION
Adverse Weather Delay Days



Agreed Adverse Weather Days

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

CONTRACT CHANGE ORDER NO. 3

CONTRACT AWARDED BY: Fresno City Council DATE OF AWARD: April 21st 2016
 PROJECT: Friant-Kern Canal Pipeline Project
 P.O. NO: FRSNO-0000070590 PROJECT ID NO: WC000038 BID FILE NO: 3372
 CONTRACTOR: Mountain Cascade Inc.

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

Description of Requested Change:

I. CHANGES TO CONTRACT PLANS AND SPECIFICATIONS.

A. This Change Order No. 3 includes costs associated with improvements to Garonne Road and Old Clovis Avenue due to weather and construction access, paleo monitoring, addition of Foothill Lane shoulder, Temporary Foothill Lane for access, ventilation for existing 60-inch inspection, and out of sequence pipe laying. See Page 2 for summary description.

II. CONTRACT PRICE

A. This Change Order No. 3 results in a net increase of \$284,395.50 to the contract price.

III. CONTRACT TIME

B. No time impacts

STATEMENT OF CONTRACT PRICE		STATEMENT OF CONTRACT TIME		
Original Contract Price	\$ 15,157,862.00		Calendar Days	Contract Dates
Approved Cost Change Orders to Date	\$ (17,172.50)	Contract Notice to Proceed		5/31/2016
Cost of this Change Order	\$ 284,395.50 <i>See (Pg 2)</i>	Calendar Days to Substantial Completion	440	
Total of all Contract Cost Change Orders including this Change Order	\$ 267,223.00	Calendar Days to Final Completion	500	
		Computed Date for Substantial Completion		8/13/2017
		Computed Date for Final Completion		10/12/2017
		Time Extension Days For Contract		
Net percentage change in Contract Price from original Contract Price	1.76%	Time extension days this CCO		
		Total time Extension days previous CCO's	0	
		Total Time Extension Days To Date	0	
		Excess Incliment Weather Days To Date (Pg 3)	0	
		Suspended Work Days To Date	0	
Revised Contract Price	\$ 15,425,085.00	Revised Substantial Completion Date		8/13/2017
		Revised Final Completion Date		10/12/2017

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

Acceptance Date: 6/26/17 Contractor: Mountain Cascade Inc.
 Accepted By: [Signature] Title: Roger Williamson Executive Vice President

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

OWNER APPROVAL

Submitted By: [Signature] Recommended By: [Signature] Date: 06/16/2017
 Gentry Karr, Construction Manager Randy Hoffman, Project Manager
 Authorized By: Public Utilities Water Division Manager Date: 7/19/17
 Approved By: Public Utilities Director Date: 7/20/17
 Approved By: City Council Minutes of Meeting Dated: N/A
 Michael Carratal Thomas Esqueda

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

ATTEST:
 YVONNE SPENCE, CMC
 CITY CLERK
 By: [Signature] 7-27-17
 Deputy

Change Order Request	Description	Amount	Time increase
3	COR 003 & RFP 011 - This change authorizes repairs to private access roads (Old Clovis Avenue and Garonne Avenue) within or adjacent to the construction zone that have deteriorated during construction. The cause of deterioration is attributable to three factors: natural deterioration of the original roadway resulting from the residents' normal use; MCI's unauthorized use of some portions of the roads during construction; and construction activities that were unavoidable due to limited access provided in the Contract Documents. The City and MIC have jointly agreed that the latter two construction related activities exacerbated the natural deterioration and that both parties should contribute to the repair of the roads. The repair work will consist of furnishing and installing a 12-foot wide, 2-inch thick asphalt paving overlay to approximately 56,400 square feet of existing roadway as described in the April 10th 2017 proposal from Cal Valley Construction. The work will be done in accordance with CAL TRAN standard specification Section 39 Hot Mix Asphalt, Subsection 39-3 Method and no warranty is provided as to adequacy of underlying subgrade and/or drainage. The City will also obtain a waiver/release from the impacted Foothill residents authorizing the repairs and indemnifying the City and MCI from any further road related damage claims. This change does not require a time extension.	\$ 64,200.00	0
3	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. This is the total cost to complete this task. This change does not require a time extension.	\$ 23,454.00	0
3	RFP 010 - This change provides modifications to the Foothill Lane roadway replacement design in response to emergency service agencies requirements to include 4-inch depth 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. This change does not require a time extension.	\$ 35,486.00	0
3	WCD 002 - This change addresses the out-of-scope cost for building and maintaining the Temporary Access Road for Foothill Lane residents and emergency response vehicles. The design did not account for Cal Fire's requirement of a minimum 19-foot wide, all weather access road to accommodate two-way traffic. Also, the condition of the road was significantly impaired by ongoing, extraordinary inclement weather from December 29th 2016 through February 28th requiring unforeseen pothole repair and ponded water removal. The cost specifically includes building an 8-foot wide all weather shoulder; periodically filling potholes with ag base; periodic removal of ponded storm water from roadway, incidental damage to chain-link security fencing, and all future road maintenance costs incurred after February 28th 2017 until Foothill Lane is placed back in service. This change does not require a time extension.	\$ 85,000.00	0
3	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. This change does not require a time extension.	\$ 3,755.50	0
3	WCD 006 - This change authorizes payment to MCI for installing pipe out of sequence and in reverse direction (e.g. down station) from the diversion site between approximate Stations 339+00 to 336+00 in order to place the 36-inch Garfield Water District irrigation pipeline in service ahead of the anticipated schedule. This constraint was not a condition of the contract. The payment covers extra costs associated with working in wet-soil conditions, import of low-strength concrete slurry, inefficiencies of laying pipe in reverse direction, out of sequence mobilization of equipment to diversion site location, installation of butt-strap closures at approximate station 336+00, and any other costs resulting from the out-of-sequence work. This change does not require a time extension.	\$ 72,500.00	0
		\$ 284,395.50	0



DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION
Inclement Weather Delay Days



Agreed Inclement Weather Days (IWD)

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

CONTRACT CHANGE ORDER NO. 4

CONTRACT AWARDED BY: Fresno City Council DATE OF AWARD: April 21st 2016
 PROJECT: Friant-Kern Canal Pipeline Project
 P.O. NO: FRSNO-0000070590 PROJECT ID NO: WC000038 BID FILE NO: 3372
 CONTRACTOR: Mountain Cascade Inc.

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

Description of Requested Change:

- I. **CHANGES TO CONTRACT PLANS AND SPECIFICATIONS.**
 - A. This Change Order No. 4 includes costs associated with NESWTF redesign, California Tiger Salamander work stoppage, and inclement weather days (IWDs).

- II. **CONTRACT PRICE**
 - A. This Change Order No. 4 results in a net increase of \$520,000.00 to the contract price.

- III. **CONTRACT TIME**
 - B. This Change Order No. 4 adds an additional 96 days to the contract time to account for excess IWDs.

STATEMENT OF CONTRACT PRICE		STATEMENT OF CONTRACT TIME		
Original Contract Price	\$ 15,157,862.00		Calendar Days	Contract Dates
Approved Cost Change Orders to Date	\$ 267,223.00	Contract Notice to Proceed		5/31/2016
Cost of this Change Order	\$ 520,000.00 <i>See (Pg 2)</i>	Calendar Days to Substantial Completion	440	
Total of all Contract Cost Change Orders including this Change Order	\$ 787,223.00	Calendar Days to Final Completion	500	
		Computed Date for Substantial Completion		8/13/2017
		Computed Date for Final Completion		10/12/2017
		Time Extension Days For Contract		
Net percentage change in Contract Price from original Contract Price	5.19%	Time extension days this CCO	0	
		Total time Extension days previous CCO's	0	
		Total Time Extension Days To Date	0	
		Excess Inclement Weather Days To Date (Pg 3)	96	
		Suspended Work Days To Date	0	
		Revised Substantial Completion Date		11/17/2017
Revised Contract Price	\$ 15,945,085.00	Revised Final Completion Date		1/16/2018

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

Acceptance Date: 8/11/17 Contractor: Mountain Cascade Inc. **Roger Williamson**
 Accepted By: [Signature] Title: Executive Vice President

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

OWNER APPROVAL

Submitted By: [Signature] Recommended By: [Signature] Date: 08/10/17
 Gentry Karr, Construction Manager Randy Hoffman, Project Manager

Authorized By: Public Utilities Water Division Manager Date: 8/29/17
[Signature] Michael Carbajal

Approved By: Public Utilities Director Date: 8/30/17
[Signature] Thomas Esqueda

Approved By: City Council Minutes of Meeting Dated: N/A

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

CONTRACT CHANGE ORDER NO. 4
Change Order Details

Change Order Request	Description	Amount	Time increase
4	WCD 009 NESWTF Plant Redesign: 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 superceeds WCD 003 REV1 Procurement of NE Redesign Materials and WCD 004 Procurement of Flow Meter Spool Pieces.	\$ 493,000.00	0
4	COR 007 CTS Shutdown in December 2016: The associated cost are relative to the cease 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. The order stopped all work in a defined construction area with immediate effect. Ten (10) pieces of construction equipment were trapped in the restricted area for eight (8) work days until the agencies gave permission to move them. During these eight days, the contractor was unable to perform ongoing activities with the equipment.	\$ 27,000.00	0
4	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. 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. The contractor agrees that the June/July 2017 Schedule Update sets schedule Activity TEST110- 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.	\$ -	96
		\$ 520,000.00	96



**DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION
Inclement Weather Delay Days**



Agreed Inclement Weather Days (IWD)

Month	IWDs	Excess IWDs to be Applied to Contract Time*
May-16	0	0
Jun-16	0	0
Jul-16	0	0
Aug-16	0	0
Sep-16	0	0
Oct-16	0	0
Nov-16	0	0
Dec-16	17	4
Jan-17	31	31
Feb-17	28	28
Mar-17	31	31
Apr-17	2	2
May-17	0	0
Jun-17	0	0
Jul-17	TBD	TBD
Aug-17	TBD	TBD
Sep-17	TBD	TBD
Oct-17	TBD	TBD
Nov-17	TBD	TBD
Total Excess IWDs		96

*Baseline schedule included thirteen (13) IWDs. Agreed IWDs beyond the thirteen are considered excess.



DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION

1910 East University Avenue, Fresno, California, 93721



CONTRACT CHANGE ORDER NO. 5

CONTRACT AWARDED BY: Fresno City Council DATE OF AWARD: April 21st 2016
PROJECT: Friant-Kern Canal Pipeline Project
P.O. NO: FRSNO-0000070590 PROJECT ID NO: WC000038 BID FILE NO: 3372
CONTRACTOR: Mountain Cascade Inc.

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

Description of Requested Change:

- I. **CHANGES TO CONTRACT PLANS AND SPECIFICATIONS.**
 - A. This Change Order No. 5 includes costs associated with excess groundwater, excess flow in the Friant-Kern Canal, paving demobilization, Friant-Kern Canal start date, an unmarked utility, additional rock for backfill of the 36" Garfield irrigation line, Tiger Salamander larvae, and Old Clovis and Garonne paving.
- II. **CONTRACT PRICE**
 - A. This Change Order No. 5 results in a net increase of \$16,023.00 to the contract price.
- III. **CONTRACT TIME**
 - B. This Change Order No. 5 does not add any additional days.

STATEMENT OF CONTRACT PRICE		STATEMENT OF CONTRACT TIME		
Original Contract Price	\$ 15,157,862.00		Calendar Days	Contract Dates
Approved Cost Change Orders to Date	\$ 787,223.00	Contract Notice to Proceed		5/31/2016
Cost of this Change Order	\$ 16,023.00 <i>See (Pg 2)</i>	Calendar Days to Substantial Completion	440	
Total of all Contract Cost Change Orders including this Change Order	\$ 803,246.00	Calendar Days to Final Completion	500	
		Computed Date for Substantial Completion		8/13/2017
		Computed Date for Final Completion		10/12/2017
		Time Extension Days For Contract		
		Time Extension Days This CCO	0	
Net percentage change in Contract Price from original Contract Price	5.30%	Total Time Extension Days Previous CCO's	0	
		Total Time Extension Days To Date	0	
		Excess Inclement Weather Days To Date (Pg	96	
		Suspended Work Days To Date	0	
		Revised Substantial Completion Date		11/17/2017
Revised Contract Price	\$ 15,961,108.00	Revised Final Completion Date		1/16/2018

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

Acceptance Date: 12/12/17 Contractor: Mountain Cascade Inc.
Accepted By: [Signature] Title: Roger Williamson Executive Vice President

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

OWNER APPROVAL

Submitted By: [Signature] Recommended By: [Signature] Date: 12/14/2017
Gentry Karr, Construction Manager Randy Hoffman, Project Manager
Authorized By: Public Utilities Water Division Manager Date: 12/14/17
Approved By: Public Utilities Director Date: 12/14/2017
Approved By: City Council Minutes of Meeting Dated: Not required
Michael Carbajal
Thomas Esqueda

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

CONTRACT CHANGE ORDER NO. 5
Change Order Details

Change Order Request	Description	Amount	Time increase
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: Contractor requested extra compensation due to an unmarked conduit found in the NESWTF work zone.</p>	\$ 14,250.00	0
5	<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>	\$ 1,773.00	0
5	<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>	\$ -	0
		\$ 16,023.00	0



DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION
Inclement Weather Delay Days



Agreed Inclement Weather Days (IWD)

Month	IWDs	Excess IWDs to be Applied to Contract Time*
May-16	0	0
Jun-16	0	0
Jul-16	0	0
Aug-16	0	0
Sep-16	0	0
Oct-16	0	0
Nov-16	0	0
Dec-16	17	4
Jan-17	31	31
Feb-17	28	28
Mar-17	31	31
Apr-17	2	2
May-17	0	0
Jun-17	0	0
Jul-17	0	0
Aug-17	0	0
Sep-17	0	0
Oct-17	0	0
Nov-17	0	0
Total Excess IWDs		96

*Baseline schedule included thirteen (13) IWDs. Agreed IWDs beyond the thirteen are considered excess.



DEPARTMENT OF PUBLIC UTILITIES
PROGRAM MANAGEMENT AND ENGINEERING OFFICE

2101 G Street, Building A, Fresno, CA 93721



CONTRACT CHANGE ORDER NO. 6

CONTRACT AWARDED BY: Fresno City Council DATE OF AWARD: April 21st 2016
 PROJECT: Friant-Kern Canal Pipeline Project
 P.O. NO: FRSNO-0000070590 PROJECT ID NO: WC000038 BID FILE NO: 3372-2
 CONTRACTOR: Mountain Cascade Inc.

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

Description of Requested Change:

I. CHANGES TO CONTRACT PLANS AND SPECIFICATIONS.

A. This Change Order No. 6 includes costs associated with the security alarm and additional rebar at the turnout structure, changes to piping and pipe supports at the Northeast Surface Water Treatment Facility (NESWTF), changes in road base material, changes to the pitot tube per Friant-Water Authority (FWA), standby excavator costs, replacement of trees, and CLSM backfill in Copper and Willow Avenues.

II. CONTRACT PRICE

A. This Change Order No. 6 results in a net increase of \$185,457.34 to the contract price.

III. CONTRACT TIME

B. This Change Order No. 6 does not add any additional days.

STATEMENT OF CONTRACT PRICE		STATEMENT OF CONTRACT TIME		
Original Contract Price	\$ 15,157,862.00	Calendar Days	Contract Dates	
Approved Cost Change Orders to Date	\$ 803,246.00	Contract Notice to Proceed		5/31/2016
Cost of this Change Order	\$ 185,457.34 See (Pg 2)	Calendar Days to Substantial Completion	440	
Total of all Contract Cost Change Orders including this Change Order	\$ 988,703.34	Calendar Days to Final Completion	500	
Net percentage change in Contract Price from original Contract Price	6.52%	Computed Date for Substantial Completion		8/13/2017
		Computed Date for Final Completion		10/12/2017
		Time Extension Days For Contract		
		Time Extension Days This CCO	0	
		Total Time Extension Days Previous CCO's	0	
		Total Time Extension Days To Date	0	
		Excess Inclement Weather Days To Date (Pg 3)	96	
		Suspended Work Days To Date	0	
		Revised Substantial Completion Date		11/17/2017
Revised Contract Price	\$ 16,146,565.34	Revised Final Completion Date		1/16/2018

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

Acceptance Date: 2/18/18 Contractor: Mountain Cascade Inc. **Roger Williamson**
 Accepted By: [Signature] Title: **Executive Vice President**

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

OWNER APPROVAL

Submitted By: Gentry J. Karr Recommended By: [Signature] Date: 02/14/2018
 Gentry Karr, Construction Manager Randy Hoffman, Project Manager
 Authorized By: Public Utilities Water Division Manager Date: 3/1/18
 Approved By: Public Utilities Director Date: 3/1/18
 Approved By: City Council Minutes of Meeting Dated: Not required
 Michael Carbajal
 Thomas Esqueda

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



**DEPARTMENT OF PUBLIC UTILITIES
PROGRAM MANGEMENT AND ENGINEERING OFFICE**



Friant-Kern Canal Pipeline Project
CONTRACT CHANGE ORDER NO. 6
Change Order Details

Items	Description	Amount	Time
1	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.	\$ 2,621.47	0
2	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.	\$ 8,206.19	0
3	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.	\$ 10,950.09	0
4	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 occured to keep the equipment on-site.	\$ 2,607.86	0
5	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.	\$ 1,121.11	0
6	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.	\$ 63,521.90	0
7	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.	\$ 88,513.88	0
8	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.	\$ (300.00)	0
9	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.	\$ 3,102.62	0
10	COR 017: The pipe support as designed was in conflict with nearby fittings. Contractor had to move the pipe support.	\$ 5,112.22	0
		\$ 185,457.34	0

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

98

Inclement Weather Delay Days

Agreed Inclement Weather Delay Days (IWD)

Month	IWDs	Excess IWDs to be Applied to Contract Time
May-16	0	0
Jun-16	0	0
Jul-16	0	0
Aug-16	0	0
Sep-16	0	0
Oct-16	0	0
Nov-16	0	0
Dec-16	17	4
Jan-17	31	31
Feb-17	28	28
Mar-17	31	31
Apr-17	2	2
May-17	0	0
Jun-17	0	0
Jul-17	0	0
Aug-17	0	0
Sep-17	0	0
Oct-17	0	0
Nov-17	0	0
Total Excess IWDs		96

*Baseline schedule included thirteen (13) IWDs. Agreed IWDs beyond the thirteen are considered excess.



**DEPARTMENT OF PUBLIC UTILITIES
PROGRAM MANAGEMENT AND ENGINEERING OFFICE**
2101 G Street, Building A, Fresno, CA 93721



CONTRACT CHANGE ORDER NO. 7

CONTRACT AWARDED BY: Fresno City Council DATE OF AWARD: 4/21/2016
 PROJECT: Friant-Kern Canal Pipeline Project
 P.O. NO: FRSNO-0000070590 PROJECT ID NO: WC000038 BID FILE NO: 3372-2
 CONTRACTOR: Mountain Cascade Inc., 555 Exchange Ct Livermore, CA 94550

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

Description of Requested Change:

- I. **CHANGES TO CONTRACT PLANS AND SPECIFICATIONS**
 - A. This Change Order No. 7 includes costs associated with: 1) Remobilization of Unmarked PG&E Duct Bank 2) Existing 60 Inch Pipe Repairs 3) Meter Vault Platform 4) Staging Area Fencing 5) Stainless Steel Label Cable Ties 6) Gate Replacement on Mr. Rauch's Property 7) Clean-out Trench from Stop Work Notice, Nesting Birds in Work Zone, NESWTF Buttstraps, and City Inspection Overtime 8) Contract Bid Item Adjustments
- II. **CONTRACT PRICE**
 - A. This Change Order No. 7 results in a net decrease of \$59,188.12 to the contract price.
- III. **CONTRACT TIME**
 - B. This Change Order No. 7 does not add any additional days.

STATEMENT OF CONTRACT PRICE		STATEMENT OF CONTRACT TIME		
Original Contract Price	\$ 15,157,862.00		Calendar Days	Contract Dates
Approved Cost Change Orders to Date	\$ 988,703.34	Contract Notice to Proceed		5/31/2016
Cost of this Change Order	\$ (59,188.12) See (Pg 4)	Calendar Days to Substantial Completion	440	
Total of all Contract Cost Change Orders including this Change Order	\$ 929,515.22	Calendar Days to Final Completion	500	
Net percentage change in Contract Price from original Contract Price	6.13%	Computed Date for Substantial Completion		8/13/2017
		Computed Date for Final Completion		10/12/2017
		Time Extension Days For Contract		
		Time Extension Days This CCO	0	
		Total Time Extension Days Previous CCO's	0	
		Total Time Extension Days To Date	0	
		Excess Inclement Weather Days To Date (Pg 5)	96	
		Suspended Work Days To Date	0	
		Revised Substantial Completion Date		11/17/2017
		Revised Final Completion Date		1/16/2018
Revised Contract Price	\$ 16,087,377.22			

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

Acceptance Date: 4/27/18 Contractor: Mountain Cascade Inc.
 Accepted By: [Signature] Title: Vice President

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

OWNER APPROVAL

Submitted By: [Signature] Recommended By: [Signature] Date: 04/27/2018
 Gentry Karr, Construction Manager Randy Hoffman, Project Manager
 Authorized By: Interim Assistant Director Date: 5/15/18
[Signature] Michael Carbajal
 Approved By: Public Utilities Director Date: 5/15/18
[Signature] City Manager
 Approved By: City Council Minutes of Meeting Dated: Not required

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

RB
RF

Friant-Kern Canal Pipeline Project
CONTRACT CHANGE ORDER NO. 7
Change Order Details

Items	Description	Amount	Time
1	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.	\$ 32,910.45	0
2	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.	\$ 35,086.62	0
3	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.	\$ 7,930.72	0
4	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.	\$ 2,040.00	0
5	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.	\$ 1,180.41	0
6	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.	\$ 1,406.00	0

7	<p>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 follows:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	\$ 145,000.00	0
8	<p>Contract Bid Item Adjustments:</p> <p>RFP 015: Bid Item No. 8 - Pothole Existing Utilities - There were twenty-one (21) pothole locations included in the contract. The Contractor received approval from the Construction Manager to bill Bid Item No. 8 for an additional 15 pothole locations. Total amount to exceed the original Bid Item is \$11,250.</p> <p>RFP 016: 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</p>	\$ (284,742.32)	0

RFP 017: Bid Item No. 32 - Access Drive Gate for Barbed Wire Fence - This line item allows the Construction Manager to direct the Contractor to install additional gates as needed. The Construction Manager approved the Contractor to bill Bid Item 32 for an additional seven (7) gates based on field determination of need. Total amount to exceed the original Bid Item is \$11,900.00

RFP 018: 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.

\$ (59,188.12) 0

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

Inclement Weather Delay Days

Agreed Inclement Weather Delay Days (IWD)

Month	IWDs	Excess IWDs to be Applied to Contract Time
May-16	0	0
Jun-16	0	0
Jul-16	0	0
Aug-16	0	0
Sep-16	0	0
Oct-16	0	0
Nov-16	0	0
Dec-16	17	4
Jan-17	31	31
Feb-17	28	28
Mar-17	31	31
Apr-17	2	2
May-17	0	0
Jun-17	0	0
Jul-17	0	0
Aug-17	0	0
Sep-17	0	0
Oct-17	0	0
Nov-17	0	0
Total Excess IWDs		96

*Baseline schedule included thirteen (13) IWDs. Agreed IWDs beyond the thirteen are considered excess.