



**DEPARTMENT OF PUBLIC UTILITIES
REGIONAL WASTEWATER MANAGEMENT
WASTEWATER MANAGEMENT DIVISION**
5607 WEST JENSEN AVENUE - FRESNO CALIFORNIA 93706

CONTRACT CHANGE ORDER NO. 2

CONTRACT AWARDED BY: CITY COUNCIL REDEVELOPMENT AGENCY INFORMAL

DATE OF AWARD **Jun 16, 2016**

PROJECT: **Headworks Wet Well Cleaning** SHEET **1 of 2**
 P.O. NO: **70733** PROJECT ID NO. **TC00143** BID FILE NO. **3466**
 TO: **Pipe and Plant Solutions Inc. 225 3rd Street Oakland, CA 94607**, CONTRACTOR

You are hereby requested to make the herein described changes from the plans and specifications 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. Change requested by: **City of Fresno**

Description:

I. **CHANGES TO CONTRACT PLANS AND SPECIFICATIONS.**
 A. See sheets 2 of this change order for details
 (additional support documents are not numbered)

II. **CONTRACT PRICE**
 A. Contract Change Order No. 2 results in a net increase of \$37423 to the contract price.

III. **CONTRACT TIME**
 B. Contract Change Order No. 2 results in a net time increase of 3 working days to the original contract time

Cost of this Change Order		\$	37,423.00	Increase	STATEMENT OF CONTRACT TIME		
Estimated		\$	-		Decrease	NUMBER OF DAYS	DATE
Exact	X	Net change	\$37,423.00				
Original contract price		\$	289,394.00		Date of Notice to Proceed	Sep 26, 2016	
Approved Cost Changes to Date		\$	60,371.00		Contract X Working Calendar Days	120	
Total of all Contract Changes including this Change Order		\$	97,794.00		Computed Date for Completion	Mar 17, 2017	
Net change in Contract Price is of the original Contract Price			33.8%		Time extension days this CCO	3	
					Total time extension days all CCO's	9	
					Weather Days through 4/8/2011	0	
					Suspended Days through	0	
					Extended Date for Completion	Apr 4, 2017	
					Substantial Completion		
Revised Contract Price		\$	387,188.00				

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.

Accepted Date _____ Contractor: _____

Signed By: _____ Title: _____

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.

Submitted By: _____ Approval Recommended _____ Date _____
 Orlando Gonzalez, PE. Construction Manager Kevin Norgaard, P.E. Supervising Professional Engineer

Authorized: Chief Administrative Officer
 Ex-officio Executive Director of the Redevelopment Agency _____ Date _____
(if change orders or total of change orders exceed 5 percent of contract price)

Authorized: City Council Redevelopment Agency Minutes of Meeting Dated: _____
(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.)

Authorized: Director Department of Public Utilities
 Engineer for the Redevelopment Agency _____ Date _____
 Thomas Esqueda

Approved: City Manager
 Engineer for the Redevelopment Agency _____ Date _____
 c. Kevin Norgaard, Project Manager Bruce Rudd

**PROJECT: HEADWORKS WET WELL CLEANING AT THE FRESNO/CLOVIS
REGIONAL WASTEWATER RECLAMATION FACILITY**

P.O. No: **66458**

Contractor: **Pipe and Plant Solutions Inc.**

**ITEMS COVERED UNDER THIS
CHANGE ORDER NO. 2:**

❖ **Item #1 – RSP Failure & Emergency Use of North Wet Well:** The Headworks Building houses the most important equipment at the RWRP, the raw sewage pumps (RSP). The sewer flows from Fresno and Clovis flow into two redundant wet wells where the RSP's are located. From wet wells, the raw sewage is pumped approximately 50 feet vertically and then gravity flow through the remainder of the treatment process. The wet wells are served by either three or four RSP's. Each wet well independently has enough capacity to pump the entire current peak sewer flows. The wet wells are designed so that they can be isolated from one another. Normally both wet wells are in service but, if one wet well is out of service the other serves all the flow. For this project, each influent wet well was isolated for cleaning while the other remained in service.

Over time these wet wells accumulate large amounts of debris. The debris consists of two major parts, heavier-than-water solids (grit) and floatable solids. As part of the project bid package design, the floating mat was probed by City staff and estimated to be six feet thick and the grit was also estimated to be six feet thick. Once the wet well was accessible during the cleaning work, it was discovered by the contractor and verified by City staff that these mats were each in excess of eight feet thick. This change order includes additional funds to compensate for the additional effort to remove the floatables and grit not anticipated by the bid package.

Once the southern wet well was cleaned, the contractor started on the northern wet well. During the cleaning of the northern wet well, one of the RSP's pumping out of the southern wet well suffered a motor failure. The contractor was called in at 2:00AM to remove all pumps and other support equipment from the northern wet well. The City then was forced to use the north wet well for three days while the contractor was on hold. The contractor was on standby for three days and tracked the delays on time and material. The following week the contractor remobilized into the wet well and completed cleaning out the debris in the north wet well. As a result of opening the isolation gates, a significant amount of additional floatables and grit were pushed back into the north wet well. The contractor was required to pump the sewage out of the well, remove floatable solids and pump out the scum layer a second time. City staff negotiated a price for additional work due to the motor failure and the additional debris to \$37,423 with three days' time extension. The work included the use of a hydraulic pumping unit, hydraulic submersible pumps, permit-required confined space entry equipment, 2.5" and 6" hoses for suction and water

blasting, a winching system and a minimum four person crew. **ADD \$37,423.00 3
DAYS TIME EXTENSION**

TOTALS FOR CONTRACT CHANGE ORDER NO. 2

Dollar increase - \$37,423.00

3 additional work days

End of Items to be Included in Change Order No. 2

This Change Order Represents Full and Final Consideration for the Items Listed above, including any and all delays, disruptions and impacts.
