

Department of Public Works

Bureau of Engineering
Report No. 1

August 17, 2005
CD No. 4

DONALD C. TILLMAN WATER RECLAMATION PLANT (DCT) NITROGEN REMOVAL CONVERSION PROJECTS (CIP 6141 AND 6153), CONTRACT NO. C-106466 - CHANGE ORDER SERIAL NO. 08 (W.O. No. SZD 11127)

RECOMMENDATION

Authorize the City Engineer to issue Change Order Serial No. 08 (Transmittal No. 1) in the amount of \$132,982 to Kiewit Pacific Co., to furnish and install additional instrument mounting hardware as well as electrical breakers, transformers, local panels, disconnect switches, and conduit and wires for the DCT Nitrogen Removal Conversion project.

TRANSMITTALS

1. Change Order Serial No. 08.
2. E-mail from Ali Poosti dated June 13, 2005 confirming an Emergency Change Authorization for the above referenced change order.

DISCUSSION

Background

On March 22, 2004, the Board of Public Works (BPW) awarded a contract to Kiewit Pacific Co., in the amount of \$33,505,000. Contract No. C-106466 will significantly modify the existing conventional activated-sludge process at DCT to meet the nitrogen discharge limits proposed by the California Regional Water Quality Control Board.

Construction of this project began in April 2004 and is scheduled to complete by January 2007. Four contract milestone dates were established for this contract, with Milestone No. 2 scheduled to complete in August 2005. New process controls require the installation of 90 Dissolved Oxygen (DO) probes in the secondary aeration tanks. These instruments will be located along walkways that run the length of the aeration tanks. To ensure reliability, each submerged DO probe must be equipped with an air blast cleaning device which requires a stainless steel mounting plate and power and control wiring in excess of the originally designed system. The existing electrical receptacles that follow the same routing and have the same source for power as the new DO probes, are severely corroded and need to be

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replaced. The new design consolidates the power supply for both the DO probes and replacement receptacles into a common conduit. The power supply will be delivered using common breakers, transformers, local panels, and disconnect switches. An Emergency Change Authorization request to proceed with the change order work was approved in the Board briefing on June 13, 2005 (Transmittal No. 2).

Program Review Committee (PRC) Approval

On June 1, 2005, PRC gave verbal approval to the Environmental Engineering Division to proceed with furnishing and installing the proposed electrical and instrumentation hardware through a change order to the Nitrogen Removal Conversion projects.

Change Order Status

To date a total of 30 change orders have been issued. Of these, 13 are fully executed including this one which was approved by Emergency Change Authorization on June 13, 2005. Seventeen others are Preliminary Change Orders and currently being negotiated.

Summary of Change Orders			
Category	Total No. of Change Orders	Dollar (\$) Amount	Percent (%) Contract Amount
Fully Executed Change Orders	12	\$234,586	0.70%
This Change Order	1	132,982	0.40%
Preliminary Change Orders	17	350,000	1.04%
Total	30	\$717,568	2.14%

Conclusion

It is recommended that the BPW authorize the City Engineer to issue Change Order Serial No. 08 in the amount of \$132,982 to Kiewit Pacific Co. to furnish and install the additional electrical and instrumentation conduit and wires for the DCT Nitrogen Removal Conversion project.

STATUS OF FINANCING

Funding in the amount of \$132,982 for this change order is available in Account No. YJ79 titled, "DCT NITROGEN REMOVAL CONVERSION." Funds may be drawn from the WW Syst Comm Paper B Const Fund No. 70X, the Sewer Capital Fund No. 761, or any future funds established as a result of commercial paper or bond sales, at the discretion of the Director of the Bureau of Sanitation or authorized designee.

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(KRR RTH WHH)

Report reviewed by:

BOS (FMD)

Report prepared by:

Environmental Engineering Division

Kenneth R. Redd
Division Engineer
Phone No. (310) 648-6174
Fax No. (310) 648-6155


Respectfully submitted,



Gary Lee Moore, P.E.
City Engineer

Statement as to Funds Approved by:



 Craig V. Bloomquist, Director
Office of Accounting
Date: 8-5-05

KRR/AP/07-2005-0134.EED.gva

Questions regarding this report
may be referred to:

Writer: Ali Poosti
Phone No. (818) 778-4237
Fax No. (818) 778-4232

**CITY OF LOS ANGELES – DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING - ENVIRONMENTAL ENGINEERING DIVISION**

Attachment 20.2-3
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CHECK ONE:

- | | |
|--|--|
| <input checked="" type="checkbox"/> EMERGENCY CHANGE ORDER AUTHORIZATION (ECA) | <input type="checkbox"/> FINAL CHANGE ORDER (FCO) |
| <input type="checkbox"/> PRELIMINARY CHANGE ORDER (PCO) | <input type="checkbox"/> FINAL TIME & MATERIAL CHANGE ORDER (F T&M CO) |
| <input type="checkbox"/> TIME & MATERIAL CHANGE ORDER (T&M CO) | <input type="checkbox"/> FINAL TASK WORK ORDER (FTWO) |
| <input type="checkbox"/> PRELIMINARY TASK WORK ORDER (PTWO) | <input type="checkbox"/> FINAL TIME & MAT TASK WORK ORDER (F T&M TWO) |
| <input type="checkbox"/> TIME & MATERIAL TASK WORK ORDER (T&M TWO) | <input type="checkbox"/> FINAL TASK WORK ORDER Bid Item Allowance (FTWO BIA) |
| <input type="checkbox"/> PRELIM. TASK WORK ORDER - Bid Item Allowance (PTWO BIA) | <input type="checkbox"/> FINAL TASK WORK CHANGE ORDER (FTWCO) |
| <input type="checkbox"/> TIME & MAT TASK WORK ORDER - Bid Item Allow (T&M TWO BIA) | <input type="checkbox"/> FINAL CLOSE OUT CHANGE ORDER |
| <input type="checkbox"/> PRELIMINARY TASK WORK CHANGE ORDER (PTWCO) | <input type="checkbox"/> UNILATERAL CHANGE ORDER |

CHECK ONE:

☐ CISCO ☐ ON-CALL ☒ B & A

PROJECT NO: 6141	PROJECT TITLE: Nitrogen Removal Conversion Power to DO Probes and Electrical Receptacle Replacement	FILE NO: 8-8-7
CO NO: 8	SUBJECT:	PAGE NO: 1 of 1
CONTRACT NO: C-106466	CONTRACTOR: KIEWIT PACIFIC CORP.	W.O. NO: SZD11127
SPEC REF.: Div 16	PLAN REF.: New Contract Drawings E-96 & 97	SCH. REF.: N/A
BID ITEM NO: N/A	BID ITEM DESC: N/A	

In preparing change orders / Task Work Order, show in order as separate numbered paragraphs:

1. Reason for change 2. Description of change 3. Change in contract cost 4. Change in contract time

1. REASON FOR CHANGE:

The Hach Dissolved Oxygen (DO) probes require an additional power supply and mounting hardware for the purge unit air compressors. In addition, contract work on top of the secondary aeration tanks requires that existing power outlets mounted on handrails be relocated to avoid interference with the new conduit. Existing receptacles are corroded and need to be replaced.

2. DESCRIPTION OF CHANGE:

Contractor shall install new conduit, wiring, electrical panels, breakers, disconnect switches, transformers and a stainless steel mounting plate for ninety DO analyzer air compressors and fifteen power receptacles, as shown on attached new Contract Drawings E-96 and E-97.

3. CHANGE IN CONTRACT COST: ADD: \$ 132,892

4. CHANGE IN CONTRACT TIME: There is no change to the contract completion date.

Cost and Schedule Control Summary

Contract Amount, Original	\$ 33,505,000.00	Contract Duration, Original	1007	Calendar Days
Previous C.O.'s Add	\$ 61,933.00	Previous C.O.'s Add/(Deduct)	0	Calendar Days
This C.O. Add	\$ 132,892.00	This C.O. Add/(Deduct)	0	Calendar Days
Revised Contract Amount	\$ 33,699,825.00	Revised Contract Time	1007	Calendar Days
		Revised Contract Completion Date	January 8, 2007	

The compensation (time and cost) set forth in a Change Order comprises the total compensation due the CONTRACTOR, all Subcontractors, and all Suppliers, for the work or change defined in the Change Order, including impact on unchanged work. By signing the Change Order, the CONTRACTOR acknowledges and agrees on behalf of himself, all Subcontractors, and all Suppliers, that the stipulated compensation includes payment for all work contained in the Change Order, plus all payment for the interruption of schedules, extended field overhead costs, delay, and all impact, ripple effect or cumulative impact on all other work under this Contract. The signing of the Change Order indicates that the Change Order constitutes full mutual accord and satisfaction for the change, and that the time and cost under the Change Order constitutes the total equitable adjustment owed the CONTRACTOR, all Subcontractors, and all Suppliers as a result of the change. The CONTRACTOR on behalf of himself, all Subcontractors, and all Suppliers, agrees to waive all rights, without exception or reservation of any kind whatsoever to file any further claim related to this Change Order. No further claim or request for equitable adjustment of any type excepting only bond and insurance cost as set forth in Paragraph K of Article 28 in the General Requirements for any reasonably foreseeable cause shall rise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the work under this Contract.

Contractor: _____

Date: _____

Title: _____

Submitted: _____

Sean Kenney, Project Construction Manager

Date: 7-13-05

Approved: _____

Ali Poosti, Construction Services Manager

Date: 7/14/05

Approved: _____

Kenneth R. Redd, Division Engineer

Date: 7/14/05

From: Ali Poosti
To: Sean Kenney
Date: 6/13/2005 12:32:41 PM
Subject: 6141 - CO 8 DO Analyzers Power supply

Hi Sean,

This morning, Commissioner Low was briefed on the change order #8, DO analyzers additional power requirement. Commissioner approved our request for issuing this change order. Therefore, instruct the contractor to start the procurement of long lead items and start preparing the board report for board approval.

Thanks
Ali

CC: Alfred Mata; Jose Fuentes; Ken Redd; Ronald Low