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CONTRACT AMENDMENT #2014.014
(Title of Document)

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CONTRACT AMENDMENT NO. 001

A Contract between Douglas County, Nevada

and

HDR Engineering, Inc., a Nebraska Corporation
2365 Iron Point Road, Suite 300, Folsom, CA 95630

for

Revised Scope of Work for the Zephyr Water Utility District UV Disinfection Project

WHEREAS, on June 21, 2012, Douglas County, a political subdivision of the State of Nevada ("County"), and HDR Engineering, Inc., an independent contractor ("Consultant") (the "Parties"), entered into a contract for engineering services in connection with the Zephyr Water Utility District UV Disinfection Project, in an amount of $194,862 ("Contract");

WHEREAS, the County desires to modify the Contract Scope of Services and reallocate the costs to complete the Scope of Services. The following changes will be made to the Scope of Services:

1. Task 2 UV Equipment Procurement – Eliminate the following subtasks from Task 2:
   a. Subtask 2.2 UV Equipment Bid Assistance and
   b. Subtask 2.3 Submittal Review;
2. Task 5 Construction Engineering Services – Add the following items and subtasks to Task 5:
   a. Review and recommend for approval contractors pay requests,
   b. Review and recommend for approval contract change requests,
   c. Review and respond to RFI's, and
   d. Subtask 5.2.1 UV Equipment Submittal Review – Consultant will review the UV equipment submittals and provide comments to the Contractor.;
3. Task 6 Construction Management –Eliminate this task from the Scope of Services;
4. Task 7 Operations and Maintenance Manual – Add this task to the Scope of Services. (See, Exhibit "B"); and
5. Cost to complete the work according to the modified Scope of Services are shown in Exhibit "A."

The original Scope of Services, together with these changes, are collectively known as the "Modified Work"; and

WHEREAS, the Parties mutually agree that Consultant shall perform the work on a time and material basis for a total cost not to exceed Zero Dollars ($0.00) as consideration for the Modified Work.

NOW, THEREFORE, in consideration of the agreements herein made, the Parties mutually agree as follows:

1. The Contract sum will be increased by $0.00, not to exceed a total contract amount of $194,862.
2. Consultant will provide all labor and materials, as needed, to complete the Modified Work.
3. All other terms and conditions of the original Contract remain unchanged and in full effect.

HDR ENGINEERING, INC.

Graham D. Sharpe
Vice President

DEC 23, 2013
Date

DOUGLAS COUNTY

Steve Mokrohisky
Douglas County Manager

1-15-13
Date

EXHIBIT A
Cost Reallocation

Douglas County

Zephyr Water Utility District UV Disinfection Project

Task	Original Contract Amount	Modified Contract Amount per Amendment 001
1 – Project Management, Quality Assurance/Quality Control	$25,909	$25,909
2 – UV Equipment Procurement	$22,591	$12,738
3 – Design and Permitting Services	$71,844	$61,649
4 – Bid Assistance	$10,040	$3,218
5 – Construction Engineering Services	$26,245	$38,564
6 – Construction Management	$38,233	$0.00
7 – Operations and Maintenance Manual	$0.00	$52,784
Total	$194,862	$194,862

EXHIBIT B
SCOPE OF SERVICES

Douglas County

Zephyr Water Utility District (ZWUD) Operations Manual

BACKGROUND

Douglas County (County) would like to have a Plan of Operations to document and standardize operations at the Zephyr Water Utility District (ZWUD) ozone-ultraviolet (UV) water treatment plant, as required under Nevada Administrative Code (NAC) 445A.535 for all surface water treatment plants.

Numerous operational changes have occurred over the years since the original water treatment plant designed by Kennedy Jenks and constructed in 1998. In 2000, HDR Engineering, Inc., (HDR) produced a series of technical memoranda (TMs) that detailed recommendations for controls modifications to make the water treatment plant run more efficiently.

In 2010, HDR designed the ozone generator replacement project. With the addition of the new UV disinfection process in 2013-2014, documenting and standardizing the current plant operations and near future improvements is recommended. HDR anticipates completion of the Operations Manual in 2014, after completion of the UV Disinfection Project.

SCOPE OF WORK

Task 1 - Project Management

This task includes the management activities required for on-time, on-budget completion, and to addresses the County's concerns. CONSULTANT will prepare invoices and progress reports on a monthly basis. The monthly progress reports will summarize budget and schedule status in measurable terms. Other activities include scheduling of staff and coordinating the quality assurance effort.

Deliverables: *Monthly invoices and progress reports.*

Task 2 - Kick-off Meeting and Site Visits

CONSULTANT will conduct a kick-off meeting with County staff to understand and document key information to be included in the Operations Manual.

In addition, CONSULTANT has assumed two trips or meetings with County engineering and/or operations staff to review the plant operation and controls. It is assumed one site visit will be conducted following the kick-off meeting.

Deliverables: *Meeting agenda and minutes.*

Task 3 - Draft Operations Manual

CONSULTANT will obtain the latest programming descriptions from Tesco as part of the UV disinfection project. These descriptions and setpoints will be incorporated into the Operations Manual. The 2000 HDR TMs will be used as a reference for the water treatment plant operations and control descriptions. CONSULTANT will evaluate the PLC setpoints for ozone for additional streamlining and simplification of the plant operation, without affecting plant reliability. Any setpoints identified will be listed in a separate TM. This scope of work does not include reprograming of the PLC to remove or modify these setpoints.

CONSULTANT will prepare a draft Operations Manual for County review. The following is a preliminary table of contents for the Operations Manual:

The table of contents shown above is for general information only, and sections may be revised based on feedback from the County.

Deliverables: *PDF files of draft Operations Manual for review and comment by County staff.*

Task 4 - Review Meeting

CONSULTANT will meet with County comments on the draft Operations Manual.

Deliverables: *Meeting agenda and minutes.*

Task 5 - Permitting Services

HDR will revise the draft Operational Manual in accordance to County comments, and will provide PDF of the updated draft Operations Manual for submission to the Nevada Division of Environmental Protection (NDEP) Bureau of Safe Drinking Water for review.

HDR will respond to NDEP Bureau of Safe Drinking Water review comments on the draft Operations Manual. For the purpose of this scope, HDR assumes two rounds of review comments from NDEP.

Deliverables: *PDF files of updated draft Operations Manual for review and comment by NDEP staff.*

Task 6 - Final Operations Manual

CONSULTANT will provide a final Operations Manual after incorporation of NDEP comments.

Deliverables: *PDF and five bound copies of the final Operations Manual.*

ITEMS TO BE FURNISHED BY THE COUNTY

- Access to the treatment plant facilities, as requested by HDR staff.
- Operation records and plant data, as requested by HDR staff.