

Recorder's Office Cover Sheet

Recording Requested By:

Name: RICK ROBILLARD

Department: PUBLIC WORKS



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KAREN ELLISON, RECORDER

Type of Document: (please select one)

- Agreement
- Contract**
- Grant
- Change Order
- Easement
- Other

specify: _____

CONTRACT AMENDMENT NO. 001

FEBRUARY 28, 2020 CONTRACT FOR SERVICES BY AN INDEPENDENT CONTRACTOR

between

DOUGLAS COUNTY, NEVADA

and

HDR ENGINEERING , INC.

NO. 2020.172

9-29-20
DATE

DOUGLAS COUNTY CLERK
MINDEN, NV

BY [Signature] DEPUTY

This Contract Amendment No. 001 (“Amendment”) is entered into by and between Douglas County, Nevada, a political subdivision of the State of Nevada (“the County”) and HDR Engineering, Inc., a Nebraska Corporation registered with the Nevada Secretary of State (“Contractor”). The County and Contractor are at times collectively referred to hereinafter as the “Parties” or individually as a “Party.”

WHEREAS, on February 28, 2020, the County, and Contractor, entered into a contract in an amount not to exceed \$1,349,270, to provide engineering design, specification, and drawing preparation services and construction contract and bid solicitation documents for replacement of approximately 15,300 linear feet of water line in the Cave Rock Water System including pressure reducing station, and water meter pits and water services, adding a filtration skid to the Cave Rock Treatment Plant, installation of submersible pumps for the Cave Rock Lake Intake Pump Station, establishing a new NV Energy electrical service for the Cave Rock Lake Intake Pump Station, and replacement of the Lower Cave Rock Booster Pump Station. These services are more fully described in Exhibit A of the recorded Contract Document No. 943089; and

WHEREAS, in approving the Contract on February 27, 2020, the Douglas County Board of County Commissioners authorized the County Manager and/or Director of Public Works to execute any necessary changes to the Contract up to 10% of the contract amount; and

WHEREAS, the Parties desire to modify the 2020 Contract in order to have Contractor provide additional work under the Contract, as more particularly set forth and described in Exhibit A-1 hereto (defined as “Additional Work”), and to include additional compensation as set forth in Exhibit B-1 hereto.

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

1. **Definitions:** Unless otherwise specifically set forth herein, the words and phrases contained in this Amendment shall have the meanings ascribed to them in the February 28, 2020 Contract.
2. **Services to be Performed:** The services to be performed, as set forth in Paragraph 4 of the February 28, 2020 Contract, shall be amended to include the following Additional Work:
 - o Contractor shall perform the Additional work as set forth in Exhibit A-1, which is attached hereto and incorporated herein by reference; and

3. The total Contract Price of \$1,349,270, as set forth in Paragraph 5 of the February 28, 2020 Contract, is hereby increased by \$36,216 to a total of One Million and Three Hundred Eight Five Thousand and Four Hundred Eight Six Dollars (\$1,385,486). The \$36,218 increase shall be billed as set forth in Exhibit B-1, hereto.
4. All other terms and conditions of the original Contract remain unchanged and in full effect.

Each natural person signing this instrument, for or on behalf of a legal entity party hereto, represents, warrants, assures and guarantees to each other such natural person, and to each other such legal entity, that he or she is duly authorized and has the legal power and authority to sign this instrument.

IN WITNESS WHEREOF, the said parties have hereunto set their hands, the County, by and through Philip Ritger, Director of Public Works, and the Contractor, HDR Engineering, Inc., by and through Craig W. Smart, PE (name), Assoc. Vice President (title), on the respective dates indicated below.

HDR ENGINEERING, INC.

Craig W. Smart 9/15/20
 Name: ~~Holly Kennedy~~ **Craig W. Smart, PE** Date
 Title: ~~Senior Vice President~~ **Associate Vice President**

DOUGLAS COUNTY

PRW 09-24-2020
 Philip Ritger Date
 Director of Public Works – Douglas County, NV

EXHIBIT A - 1 SCOPE OF SERVICES

Douglas County

Cave Rock Water System Improvements Early Equipment Procurement Project – GMP 1

SCOPE OF WORK

The following tasks describe the scope of work under this amendment.

Task 10 – GMP 1 Membrane Equipment Package Design

Objectives

The Construction Manager at Risk (CMAR) seeks to obtain competitive bids for procurement of the permanent and temporary membrane water treatment equipment for Cave Rock Water Treatment Plant, in advance of final design. The permanent equipment will be installed inside the building during construction. The temporary equipment consists of a trailer mounted membrane filtration water treatment plant, to keep the plant online during construction. Advantages of early equipment procurement include the following:

- Maintain project schedule due to very long equipment lead times.
- Owner obtains competitive equipment pricing without the need for engineer to produce multiple designs based on different manufacturers.
- Engineer can produce final design documents in close coordination with the equipment manufacturer and contractor, based on actual equipment to be furnished.
- CMAR GMP for the WTP may have a lower contingency cost to account for project unknowns.

The membrane filtration and ancillary equipment will be provided by an equipment manufacturer with unit responsibility for the coordination and compatibility of all the equipment provided under their scope. The general equipment to be provided under this project includes the following:

- Membrane filtration equipment
- Recovery filtration equipment
- Membrane chemical cleaning and feed equipment
- Cleaning waste neutralization and feed equipment
- Air compressors and receivers

- PLC Control panels for all required equipment
- Temporary membrane trailer to operate during construction

10.1 – County/CMAR Coordination Meetings

CONSULTANT will attend weekly coordination meetings with the County/CMAR during the development of the GMP-1 bid package. The budget assumes up to two virtual meetings.

10.2 – Draft GMP Equipment Design Plans

The Cave Rock Water Treatment Plant 30% design plans dated June 2020 will be modified to prepare the Early Equipment Procurement Project design drawings. Since the drawings are not final, they will have a “Not For Construction” stamp. The drawings will provide the equipment suppliers with important information:

- Overall process flow of the existing water treatment
- Size and layout of the existing building to house the equipment
- General equipment layout and space constraints within the building
- Location and size of existing utilities
- Existing equipment, including size and location, to be reused with the new equipment
- Controls requirements including integration of existing equipment input/outputs with new equipment control panels, and SCADA communications

The drawings will include the following sheets:

No.	Sheet No.	Description
General (G)		
1	G000	Cover Sheet, Location, Vicinity Map, and Sheet List
2	G001	Design Criteria
3	G002	Process Flow Diagram
Civil (C)		
4	C001	WTP Temporary Treatment Plan
5	C002	WTP Temporary Treatment Elevations
Process (D)		
6	D001	WTP Equipment Plan
7	D010	WTP Sections & Elevations – 1
8	D011	WTP Sections & Elevations – 2

Instrumentation (Y)		
9	Y001	Symbols & Abbreviations
10	Y002	Lake Intake Pump Station
11	Y003	Raw Water Strainer
12	Y004	Raw and Backwash Water Supply System
13	Y005	Membrane Overall Process Piping
14	Y006	Chemical Cleaning System
15	Y007	Cleaning Chemicals
16	Y008	Neutralization Chemicals
17	Y009	Air Compressors & Receivers
18	Y010	Backwash Waste Tank
19	Y011	Backwash Recovery Skid
20	Y012	Chlorine Contact & High Service Pumping

Assumptions

- Process piping and equipment layout will be based on a three rack design with equipment from Memcor/Dupont. CONSULTANT will not prepare additional equipment layouts for other manufacturers for the Early Equipment Procurement Project.
- Drawings will be prepared in AutoCAD 2018 format using HDR standards.

10.3 – Draft GMP Technical Specifications

CONSULTANT will prepare technical specifications detailing the overall scope of supply for the new membrane and ancillary equipment. The equipment specifications will name Memcor/Dupont and two other manufacturers as acceptable equals.

The following technical specification sections will be provided:

Division 01 – General Requirements	
01 11 00	Summary of Work
01 25 13	Product Substitutions
01 26 00	Contract Modification Procedures
01 33 00	Submittals

01 33 34	Operation and Maintenance Manuals
01 61 03	Equipment: Basic Requirements
01 65 50	Product Delivery, Storage, and Handling
01 75 00	System Startup
01 78 36	Warranties
01 81 10	Wind and Seismic Design Criteria
Division 40 – Process Interconnections	
40 12 00	Compressed Air System
40 61 96	Process Control Descriptions
40 63 43	Programmable Logic Controller (PLC) Control System
40 67 00	Control System Equipment Panels and Racks
Division 46 – Water and Wastewater Equipment	
46 61 33	Microfiltration and Ultrafiltration Membrane Equipment
46 61 34	Trailer Mounted Membrane Filtration Treatment System

To verify that equipment submitted by manufacturer's other than Memcor will work with the WTP layout, CONSULTANT recommend that the manufacturers submit an equipment layout with their bid. Drawings based on D001, D010, and D011 will be provided without the new equipment, for the manufacturer's use. A section in Division 00 would need to be added to cover the equipment layout submittal. An equipment affidavit section is recommended in Division 00 stating that the submitted equipment will fit within the building without modifications and meet the clearance requirements.

CONSULTANT recommends that the CMAR includes a performance bond in Division 00, given the value of the equipment, and also consider the terms and conditions of the manufacturer in the evaluation.

Assumptions

- Specifications will be prepared using Microsoft Word with HDR master specifications in CSI 6 digit format, and HDR standard formatting.
- Front end contract including the bidder's checklist, advertisement for bids, instructions to bidders, bid form, bid schedule, bid bond, performance bond,

equipment affidavit, bidder’s qualification statement, general conditions, supplementary conditions, Nevada prevailing wage determination, Davis Bacon wage determination, and State Revolving Loan Fund supplementary conditions, and Division 00 sections will be provided by the CMAR.

- EJCDC procurement templates will be used in the front end documents.

10.4 – Review Meeting

CONSULTANT project manager will attend one design review meeting with the County and CMAR.

Review comments from the County and CMAR will be incorporated into the Early Equipment Procurement final design submittal. CONSULTANT will provide meeting notes to the group.

10.5 – Final GMP-1 Plans & Technical Specifications

Comments from the review meeting will be incorporated into the final Guaranteed Maximum Price (GMP-1) plans and specifications.

The plans and specifications will be used by the CMAR to bid the project and provide a Guaranteed Maximum Price (GMP) Proposal for the equipment to the County.

Deliverables

Table 2 – Final Design Deliverables		
Deliverable	Drawings	Specifications
100%	Electronic PDF	Electronic PDF
Firm Fixed Price	Full and half size stamped electronic PDF	Full and half size stamped electronic PDF

Task 11 – Bid Assistance

Subtask 11.1 – Bid Period Services

CONSULTANT will:

- Review bids for compliance with the contract documents, including the equipment layouts.

Equipment layouts that do not meet minimum space requirements stated in the plans will not be considered best value.

Assumptions

- CMAR/County will provide the bid platform and attend the bid opening.

- CMAR will attend any pre-bid meetings, respond to bidder questions, and issue any contract addenda.

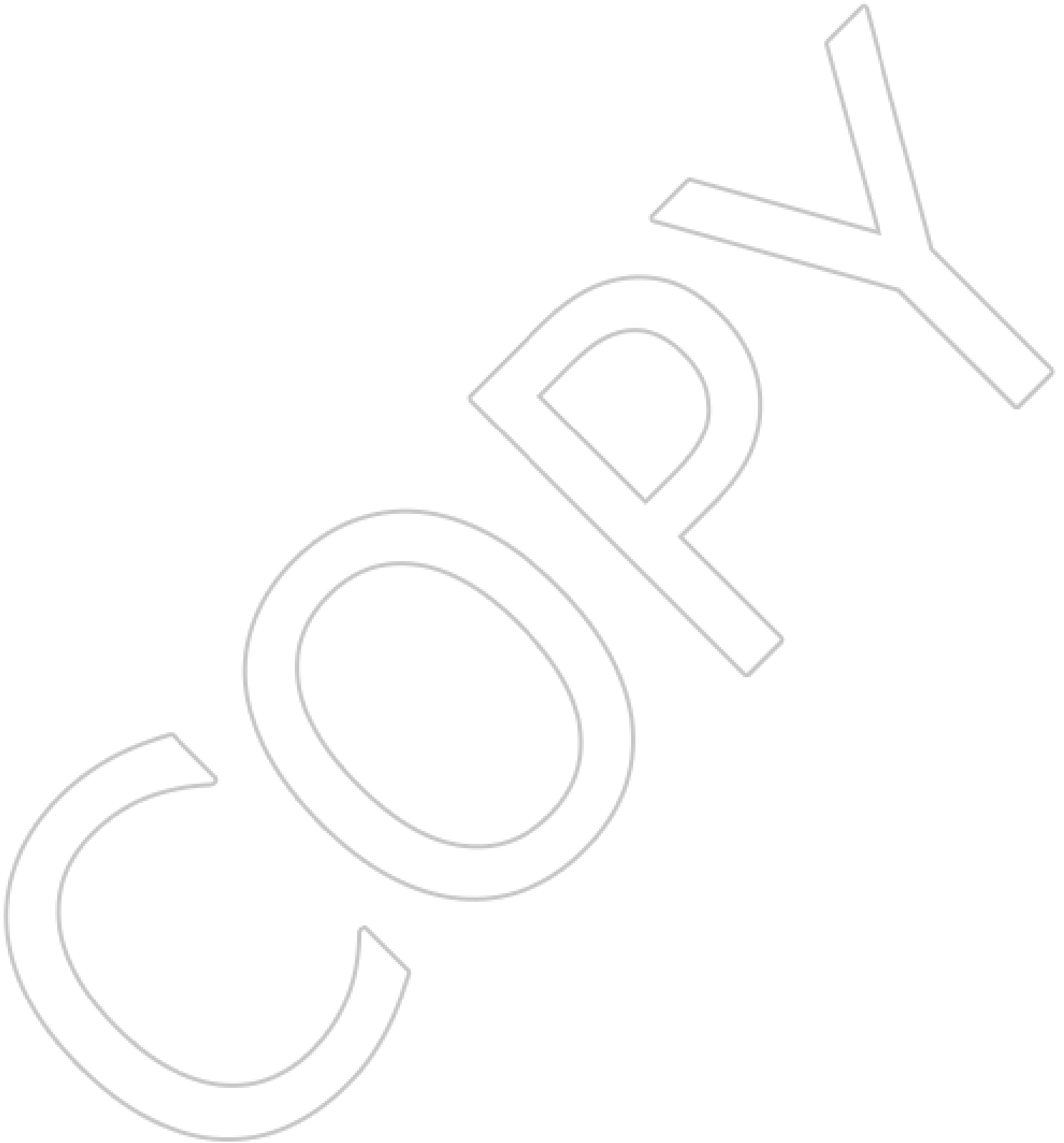


EXHIBIT B-1

GMP 1 - Estimated Work Effort and Cost
 Cave Rock WTP Membrane Equipment
 GMP-1

9/8/2020

Task No.	Task Description	QC / Technical Specialist	Project Manager	Process Engineer	Senior Electrical Engineer	Senior Structural Engineer	BIM Designer	CAD Technician	Project Controller	Project Coordinator	Total HDR Labor Hours	Total HDR Labor (\$)	Expenses (\$)	Total Cost (\$)
Task 10 - PREPARE PLANS & SPECS FOR GMP 1														
10.1	County/CMAR Coordination Meetings (Up to 2)		4	2	2						8	\$1,718		\$1,718
10.2	Draft GMP Plans	3	19	24	6		24	5	8		89	\$15,094	\$100	\$15,194
10.3	Draft GMP Technical Specifications (Does not include Div 00)	3	16			1				8	28	\$5,427	\$100	\$5,527
10.4	Review Meeting		5	2	2						9	\$1,938	\$40	\$1,978
10.5	Final GMP Plans & Technical Specifications	2	10	12	4		8	4		4	44	\$7,504	\$100	\$7,604
	Subtotal Task 10	8	54	40	14	1	32	9	8	12	178	\$31,680	\$340	\$32,020
11.1	Review Bids	2	8	4	4						18	\$4,145	\$50	\$4,195
	Subtotal Task 11	2	8	4	4	0	0	0	0	0	18	\$4,145	\$50	\$4,195
COLUMN TOTALS		10	62	44	18	1	32	9	8	12	196	\$35,826	\$390	\$36,216

12089

9/8/2020

HDR Engineering, Inc.

Douglas County State of Nevada

CERTIFIED COPY

I certify that the document to which this certificate is attached is a full and correct copy of the original record on file in the Clerk-Treasurer's Office on this

29th day of August, 2020
 By: *[Signature]* Deputy