



CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671) 649-3002 | guamccu.org

GWA RESOLUTION NO. 13-FY2024

**RELATIVE TO INCREASE FUNDING FOR THE CENTRAL GUAM
RESERVOIRS DESIGN**

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority (“GWA”); and

WHEREAS, GWA is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA is currently working on critical reservoir projects under the 2011 Court Order (“CO”) Paragraph 29 – Storage Tank/Reservoir Repair, Replacement, and Relocation Program; and

WHEREAS, through approval of CCU Resolution No. 21-FY2015 (Exhibit A) dated March 24, 2015 GWA contracted with the engineering firm of GHD to provide design services for the Central Guam Reservoirs project with authorized funding of Two Million Five Hundred Fifty-Two Thousand Four Hundred Forty-Five Dollars (\$2,552,445.00) plus 10% contingency in the amount of Two Hundred Fifty-Five Thousand Two Hundred Forty-Four Dollars and Fifty Cents (\$255,244.50) bringing the total authorized funding to a maximum of Two Million Eight Hundred Seven Thousand Six Hundred Eighty-Nine Dollars and Fifty Cents (\$2,807,689.50);

WHEREAS, GWA issued Change Order No. 1 through No. 4 for additional design services in the amount of One Million One Hundred Thirty-Six Thousand Two Hundred Fifty Dollars (\$1,136,250.00) under the authorization of CCU Resolution No. 49-FY2016 (Exhibit B) on July 26, 2016 and CCU Resolution No. 30-FY2019 (Exhibit C) on May 28, 2019;

1 **WHEREAS**, A-23 and A-25 Deep Well GAC design to treat poly/perfluoroalkyl
2 substances (PFAS) commenced under Change Proposal No. 09 (January 25, 2018) using T&M
3 budget, followed by Change Order No. 04 (June 06, 2019), and Change Proposal No. 11
4 (December 06, 2019) (T&M budget), which totaled One Hundred Fifty-Three Thousand Four
5 Hundred Thirty-Seven Dollars (\$153,437.00); and
6

7 **WHEREAS**, GWA engineering has further determined through the course of the design
8 process that additional system improvements associated with Deep Wells A-23 and A-25 project
9 are required including improvements resulting from the automobile accident fatality that
10 occurred on September 23, 2023 that damaged A-25 Deep Well facility; and
11

12 **WHEREAS**, GWA is requesting for additional design work, which will generally consist
13 of the following:

- 14 • Generator system upgrades,
- 15 • Site security improvements,
- 16 • Chlorine system and building upgrades,
- 17 • Electrical system upgrades,
- 18 • SCADA panel replacement,
- 19 • Additional construction support services for projects under the Central Guam
20 Reservoir Design project, which include the A-23 and A-25 GAC Deep Wells and
21 Tamuning and Mannegon Reservoirs;
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23
24 **WHEREAS**, GWA engineering and GHD negotiated the price for services to be
25 provided in the amount of Seventy-Eight Thousand Eight Hundred Ninety-One Dollars
26 (\$78,891.00) (Exhibit D); and
27

28 **WHEREAS**, GWA is requesting a funding approval of One Hundred Thousand Dollars
29 (\$100,000.00) for the additional design and construction support work including contingency;
30 and
31 //

1 **WHEREAS**, GWA Management seeks CCU approval to increase the total authorized
2 funding for the design contract with GHD, Inc. to Three Million Seven Hundred Eighty-Eight
3 Thousand Six Hundred Ninety-Five Dollars and Fifty Cents (\$3,788,695.50); and
4

5 **WHEREAS**, funding for this project will be from PW 09-02 Water Wells bonds, other
6 bonds and grants; and
7

8 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
9 does hereby approve the following:
10

- 11 1. The recitals set forth above hereby constitute the findings of the CCU.
- 12 2. The CCU finds that the terms of the conditions set by GWA relative to
13 commencement of subsequent work activities are fair and reasonable.
- 14 3. The CCU approves GHD's Scope of Work as set forth in Exhibit D.
- 15 4. The CCU hereby further approves the total authorized funding to Three
16 Million Seven Hundred Eighty-Eight Thousand Six Hundred Ninety-Five
17 Dollars and Fifty Cents (\$3,788,695.50); and
- 18 5. Funding source will be CIP PW 09-02 Water Wells, other bonds and grants.
19


20 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption
21 of this Resolution.
22

23 **DULY AND REGULARLY ADOPTED**, this 26th day of March 2024.
24

25 Certified by:

26 
27 _____
28 **JOSEPH T. DUEÑAS**
29 Chairperson

25 Attested by:

26 
27 _____
28 **PEDRO ROY MARTINEZ**
29 Secretary

30 //

31 //

SECRETARY'S CERTIFICATE

I, Pedro Roy Martinez, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES: 5
NAYS: 0
ABSENT: 0
ABSTAIN: 0



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**GUAM CONSOLIDATED COMMISSION ON UTILITIES
RESOLUTION NO. 21 – FY2015**

**RELATIVE TO CONTRACT APPROVAL FOR THE
CENTRAL GUAM RESERVOIRS DESIGN SERVICES**

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WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority (“GWA”); and

9
10
11
WHEREAS, the Guam Waterworks Authority (“GWA”) is a Guam Public Corporation established and existing under the laws of Guam; and

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WHEREAS, GWA is currently working on critical reservoir projects under the 2011 Court Order (“CO”) Paragraph 29 – Storage Tank/Reservoir Repair, Replacement, and Relocation Program; and

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WHEREAS, GWA has advertised the Request For Proposals (RFP-09-ENG-2014) soliciting statement of qualifications from experienced and qualified engineering firms for the preparation of design plans and specifications for the Central Guam Reservoirs; and

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WHEREAS, the Central Guam Reservoirs design project includes site investigations and system evaluations at the Hyundai, Pulantat/Manenggon, Chaot #2, Tumon #1 (Airport), Tumon #2 (Nissan), and Piti reservoir sites, development of design plans and specifications for various sized concrete reservoirs ranging from 0.5 MG to 2.0 MG nominal capacities, booster station upgrades, instrumentation and control upgrades, control valves upgrades, pipe upgrades, and other general site upgrades; and

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WHEREAS, RFP packages were downloaded by forty five (45) interested parties, from which GWA received proposal submittals from nine (9) firms before the RFP submittal deadline; and

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WHEREAS, the GWA A-E Selection committee reviewed and evaluated the nine (9) proposals (see EXHIBIT A – Evaluation Score) and generated a short list of the top four (4)

1 firms with a recommendation to award a contract to the firm GHD, Inc. ("GHD") and any
2 successor at interest thereto (see EXHIBIT B – Evaluation Summary and GM Determination);
3 and

4
5 **WHEREAS**, GHD and GWA negotiated the price for the services to be provided in the
6 amount of Two Million Five Hundred Fifty Two Thousand Four Hundred Forty Five Dollars
7 (\$2,552,445.00) (see EXHIBIT C – Fee Proposal); and

8
9 **WHEREAS**, GWA management seeks approval of the fee proposal amount of Two
10 Million Five Hundred Fifty Two Thousand Four Hundred Forty Five Dollars (\$2,552,445.00),
11 plus a ten percent (10%) contingency of Two Hundred Fifty Five Thousand Two Hundred
12 Forty Four Dollars and Fifty Cents (\$255,244.50) to bring the total authorized funding amount
13 to a maximum of Two Million Eight Hundred Seven Thousand Six Hundred Eighty Nine
14 Dollars and Fifty Cents (\$2,807,689.50); and

15
16 **WHEREAS**, funding for this project will be from the 2010 and 2013 Bond Funds
17 under the line items CIP PW 09-11 Water System Reservoirs 2005 Improvements, CIP PW 12-
18 04 Agana Heights and Chaot Tank Construction, and CIP PW 12-06 Tank Replacements Piti &
19 Hyundai Tanks; and

20
21 **WHEREAS**, GWA management recommends that a contract be entered into with
22 GHD in the aforementioned amount.

23
24 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
25 does hereby approve the following:

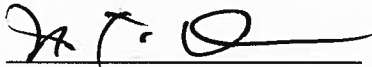
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1. The recitals set forth above hereby constitute the findings of the CCU.
 2. The CCU finds that the terms of the fee proposal submitted by GHD are fair and reasonable.
 3. The CCU finds that the terms of the conditions set by GWA relative to commencement of subsequent work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).

- 1 4. The CCU hereby authorizes the management of GWA to enter into a
2 contract with GHD, in the amount of Two Million Five Hundred Fifty Two
3 Thousand Four Hundred Forty Five Dollars (\$2,552,445.00).
4 5. The CCU hereby further approves the total funding amount for this project
5 of Two Million Five Hundred Fifty Two Thousand Four Hundred Forty Five
6 Dollars (\$2,552,445.00), plus a ten percent (10%) contingency of Two
7 Hundred Fifty Five Thousand Two Hundred Forty Four Dollars and Fifty
8 Cents (\$255,244.50) to bring the total authorized funding amount to a
9 maximum of Two Million Eight Hundred Seven Thousand Six Hundred
10 Eighty Nine Dollars and Fifty Cents (\$2,807,689.50);

11
12 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the
13 adoption of this Resolution.

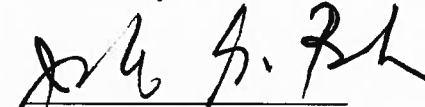
14
15 **DULY AND REGULARLY ADOPTED**, this 24th day of March 2015.

16
17 Certified by:

18 

19 **JOSEPH T. DUENAS**
20 Chairperson

Attested by:

21 

22 **J. GEORGE BAMBA**
23 Secretary

24 I, J. George Bamba, Board Secretary of the Consolidated Commission on Utilities as
25 evidenced by my signature above do hereby certify as follows:

26 The foregoing is a full, true and accurate copy of the resolution duly adopted at a
27 regular meeting by the members of the Guam Consolidated Commission on Utilities,
28 duly and legally held at a place properly noticed and advertised at which meeting a
29 quorum was present and the members who were present voted as follows:

30 AYES: 5
31 NAYS: 0
32 ABSTENTIONS: 0
ABSENT: 0

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GUAM CONSOLIDATED COMMISSION ON UTILITIES

RESOLUTION NO. 49-FY2016

RELATIVE TO APPROVAL OF CHANGE ORDER NO. 3 FOR
THE CENTRAL GUAM RESERVOIRS DESIGN PROJECT

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority (“GWA”); and

WHEREAS, GWA is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA is currently working on critical reservoir projects under the 2011 Court Order (“CO”) Paragraph 29 – Storage Tank/Reservoir Repair, Replacement, and Relocation Program; and

WHEREAS, Resolution No. 21-FY2015 (Exhibit A – Resolution 21-FY2015) authorized funding of Two Million Five Hundred Fifty Two Thousand Four Hundred Forty Five Dollars (\$2,552,445.00) plus 10% contingency of Two Hundred Fifty Five Thousand Two Hundred Forty Four Dollars and Fifty Cents (\$255,244.50) bringing the total authorized funding to a maximum of Two Million Eight Hundred Seven Thousand Six Hundred Eight Nine Dollars and Fifty Cents (\$2,807,689.50); and

WHEREAS, following CCU approval in Resolution No. 21-FY2015, GWA contracted with GHD in the amount of Two Million Five Hundred Fifty Two Thousand Four Hundred Forty Five Dollars (\$2,552,445.00) to provide design services for the Central Guam Reservoirs, which includes:

- (1) site investigations and system evaluations at Hyundai, Pulantat/Manenggon, Chaot No. 2, Tumon No. 1 (Airport), Tumon No. 2 (Nissan), and Piti reservoir sites; and
- (2) development of design plans and specifications for various sized concrete reservoirs ranging from 0.5 MG to 2.0 MG nominal capacities, booster station upgrades,

1 instrumentation and control upgrades, control valves upgrades, pipe upgrades, and other
2 general site and system upgrades; and

3
4 **WHEREAS**, GWA issued Change Orders No. 1 and No. 2 to GHD for additional
5 services that were required due to needs for land acquisition for various project sites and
6 additional water distribution system upgrade design needed for the Hyundai Reservoir service
7 zones in which the total value of the Contract was increased to Two Million Eight Hundred
8 Seven Thousand Six Hundred Eight Nine Dollars (\$2,807,689.00); and

9
10 **WHEREAS**, GWA engineering had further determined through the course of the design
11 work with the engineering consultant that additional water distribution system improvements
12 associated with the above noted reservoirs are required to meet the water distribution system
13 rezoning plan that is intended to improve water system functionality and reliability; and

14
15 **WHEREAS**, GWA management finds that the design of the necessary water distribution
16 system improvements would be best handled by the current design consultant given the
17 alternative solutions were provided by them thus GWA could expect the final design to be
18 completed expeditiously and that savings in design services would be realized as opposed to
19 putting out a whole new Request for Proposal for the necessary water distribution system
20 improvements; and

21
22 **WHEREAS**, GWA is requesting for additional design work which includes the
23 following (Exhibit B – Scope of Work and Fees):

- 24
25 (1) design work for disconnection of the 11 A-series deep wells from Chaot No. 1, Chaot
26 No. 2, and Agana Heights Reservoir distribution waterlines to eliminate cross
27 connections,
28 (2) design work for the rehabilitation existing pressure reducing valve for the Chaot
29 distribution line, upgrades to the centralize chlorination and SCADA systems at Chaot
30 No. 1, Chaot No. 2, and Agana Heights Reservoir sites to allow the system to function
31 properly,
32

- 1 (3) design for new pressure reducing valves and associated appurtenances for Tumon No. 1
2 and Tumon No. 2 reservoir systems,
- 3 (4) design for rehabilitating existing pressure reducing valve and associated appurtenances
4 for Tumon No. 2 reservoir system,
- 5 (5) design for SCADA connections for all new and upgraded pressure reducing valves and
6 flow meters,
- 7 (6) design for SCADA connections for Tumon No. 1, Tumon No. 2, Manenggon, and Piti
8 Reservoirs,
- 9 (7) escrow and purchasing fees associated with GWA's acquisition of a portion of Lot 177-
10 1 for the new Pulantat/Manenggon Reservoirs,
- 11 (8) design of a fire pump and electrical improvements for the new Hyundai Reservoir
12 booster pump station to meet fire flow code requirements,
- 13 (9) additional survey, geotechnical, archeological, and appraisal work for Tumon No. 1
14 Reservoir will be required should the Guam International Airport Authority (GIAA)
15 require GWA to move the existing reservoir to a new location,
- 16 (10) additional geotechnical, archeological, appraisal, booster station design, and off site
17 piping work for Piti Reservoir will be required should the U.S. National Park Services
18 (NPS) require GWA to move the existing reservoir to a new location.
19

20
21 **WHEREAS**, GWA engineering and GHD negotiated the price for the services to be
22 provided in the amount of Six Hundred Eighty Thousand Five Hundred Forty Eight Dollars
23 (\$680,548.00); and

24
25 **WHEREAS**, GWA Management is seeking CCU approval of the fee proposal relative to
26 Change Order No. 3 in the amount of Six Hundred Eighty Thousand Five Hundred Forty Eight
27 Dollars and Zero Cents (\$680,548.00) to fund the additional design services; and

28
29 **WHEREAS**, GWA Management further seeks CCU approval of the total authorized
30 funding for the design contract with GHD, Inc. to Three Million Four Hundred Eighty Eight
31 Thousand Two Hundred Thirty Seven Dollars and Fifty Cents (\$3,488,237.50); and
32

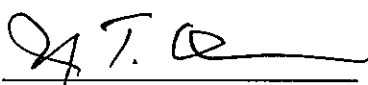
1 **WHEREAS**, funding for this project will be from 2013 and/or 2015 Bond Funds under
2 CIP line item PW 09-11 Water System Reservoirs 2005 Improvements; and

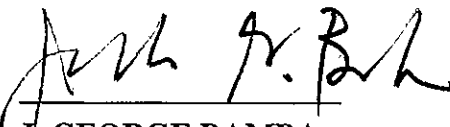
3
4 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
5 does hereby approve the following:

- 6
7 1. The recitals set forth above hereby constitute the findings of the CCU.
8 2. The CCU finds that the terms of the fee proposal submitted by GHD is fair
9 and reasonable.
10 3. The CCU finds that the terms of the conditions set by GWA relative to
11 commencement of subsequent work activities are fair and reasonable and
12 serve as a measure of Quality Assurance/Quality Control (QA/QC).
13 4. The CCU hereby authorizes GWA management to execute Change Order No.
14 3 in the amount of Six Hundred Eighty Thousand Five Hundred Forty Eight
15 Dollars (\$680,548.00) (Exhibit B).
16 5. The CCU further approvals increasing the total authorized funding for the
17 design contract with GHD, Inc to Three Million Four Hundred Eighty Eight
18 Thousand Two Hundred Thirty Seven Dollars and Fifty Cents (\$3,488,237.50)
19 6. Funding source will be CIP PW 09-11 Water System Reservoir 2005
20 Improvements.
21

22 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption
23 of this Resolution.
24

25
26 **DULY AND REGULARLY ADOPTED**, this 26th day of July 2016.

27
28 Certified by:
29 
30 _____
31 **JOSEPH T. DUENAS**
32 Chairperson

 Attested by:


J. GEORGE BAMBA
Secretary

1 I, J. George Bamba, Board Secretary of the Consolidated Commission on Utilities as
2 evidenced by my signature above do hereby certify as follows:

3 The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular
4 meeting by the members of the Guam Consolidated Commission on Utilities, duly and
5 legally held at a place properly noticed and advertised at which meeting a quorum was
6 present and the members who were present voted as follows:

6 AYES: _____ 4 _____
7 NAYS: _____ 0 _____
8 ABSTENTIONS: _____ 0 _____
9 ABSENT: _____ 1 _____
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CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

GWA RESOLUTION NO. 30-FY2019

**RELATIVE TO APPROVAL OF CHANGE ORDER NO. 4 FOR THE
CENTRAL GUAM RESERVOIRS DESIGN**

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority (“GWA”); and

WHEREAS, GWA is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA is currently working on critical reservoir projects under the 2011 Court Order (“CO”) Paragraph 29 – Storage Tank/Reservoir Repair, Replacement, and Relocation Program; and

WHEREAS, the CCU approved Resolution No. 21-FY2015 that authorized a funding of Two Million Five Hundred Fifty-Two Thousand Four Hundred Forty-Five Dollars (\$2,552,445.00) plus 10% contingency of Two Hundred Fifty-Five Thousand Two Hundred Forty-Four Dollars and Fifty Cents (\$255,244.50) bringing the total authorized funding to a maximum of Two Million Eight Hundred Seven Thousand Six Hundred Eight Nine Dollars and Fifty Cents (\$2,807,689.50); and

WHEREAS, following CCU approval in Resolution No. 21-FY2015, GWA contracted with GHD in the amount of Two Million Five Hundred Fifty-Two Thousand Four Hundred Forty-Five Dollars (\$2,552,445.00) in May 2015 to provide design services for the Central Guam Reservoirs; and

1 **WHEREAS**, GWA subsequently issued Change Order No. 1 and Change Order No. 2
2 with GHD for additional design services in the amount of Two Hundred Fifty-Five Thousand
3 Two Hundred and Forty-Four Dollars (\$255,244.00);

4
5 **WHEREAS**, in July 2016 the CCU approved Resolution No. 49-FY2016 which
6 authorized an additional Six Hundred Eighty Thousand Five Hundred Forty-Eight Dollars
7 (\$680,548.00) for additional design services to bring the total authorized funding to Three
8 Million Four Hundred Eighty-Eight Thousand Two Hundred Thirty-Seven Dollars and Fifty
9 Cents (\$3,488,237.50); and

10
11 **WHEREAS**, following CCU approval in Resolution No. 49-FY2016, GWA issued the
12 Change Order No. 3 to GHD; and

13
14 **WHEREAS**, GWA engineering has further determine through the course of the design
15 process that additional system improvements associated with the central reservoir project are
16 needed; and

17
18 **WHEREAS**, GWA is requesting for additional design work which includes the
19 following (Exhibit A):

- 20 (1) Task A: Design changes to install a new pump controller unit at the new Hyundai Tank
21 Booster Pump Station,
22 (2) Task B: Design changes to the Chaot No. 1, Chaot No. 2, and Agana Heights
23 Reservoirs SCADA,
24 (3) Task C: Programming of the Chaot No. 1, Chaot No. 2, and Agana Heights Reservoirs
25 SCADA,
26 (4) Task D: Programming of the Manenggon, Tamuning No. 1 (Airport), and Piti
27 Reservoirs SCADA,
28 (5) Task E: Tamuning No. 1 (Airport) Reservoir - Tiyan Booster Pump Station, Sewer Line
29 Rehabilitation, and Water Line Abandonment,
30 (6) Task F: A-23 and A-25 GAC System Additional Design,
31 (7) Task G: Manenggon Reservoir Access Pump Station Additional Design,
32

1 (8) Task H: Additional Structural Design to Increase Tamuning No. 1 Reservoir (Airport)
2 from 2 Million Gallon Capacity to 3 Million Gallon Capacity.

3
4 **WHEREAS**, GWA engineering and GHD negotiated the price for the services to be
5 provided in the amount of Two Hundred Thousand Four Hundred Fifty-Eight Dollars
6 (\$200,458.00); and

7
8 **WHEREAS**, GWA Management is seeking CCU approval of the fee proposal relative to
9 Change Order No. 4 in the amount of Two Hundred Thousand Four Hundred Fifty-Eight Dollars
10 (\$200,458.00) to fund the design services; and

11
12 **WHEREAS**, GWA Management further seeks CCU approval of the total authorized
13 funding for the design contract with GHD, Inc to Three Million Six Hundred Eighty-Eight
14 Thousand Six Hundred Ninety-Five Dollars and Fifty Cents (\$3,688,695.50); and

15
16 **WHEREAS**, funding for this project will be from PW 09-11 Water System Reservoirs
17 2005 Improvements and EE 09-09 SCADA Improvement – Phase 4; and

18
19 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
20 does hereby approve the following:

- 21
22
- 23 1. The recitals set forth above hereby constitute the findings of the CCU.
 - 24 2. The CCU finds that the terms of the fee proposal submitted by GHD is fair
25 and reasonable.
 - 26 3. The CCU finds that the terms of the conditions set by GWA relative to
27 commencement of subsequent work activities are fair and reasonable and
28 serve as a measure of Quality Assurance/Quality Control (QA/QC).
 - 29 4. The CCU hereby authorizes the management of GWA to issue Change Order
30 No. 4 in the amount of Two Hundred Thousand Four Hundred Fifty-Eight
31 Dollars (\$200,458.00) (Exhibit A).
- 32

1 5. The CCU hereby further approves the total authorized funding to Three
2 Million Six Hundred Eighty-Eight Thousand Six Hundred Ninety-Five
3 Dollars and Fifty Cents (\$3,688,695.50); and

4 6. Funding source will be CIP PW 09-11 Water System Reservoir 2005
5 Improvements and EE 09-09 SCADA Improvement – Phase 4.
6

7 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption
8 of this Resolution.
9

10 **DULY AND REGULARLY ADOPTED**, this 28th day of May 2019.
11

12 Certified by:

Attested by:

13 

14 

15 **JOSEPH T. DUENAS**
16 Chairperson

17 **MICHAEL T. LIMTIACO**
18 Secretary

19 **SECRETARY'S CERTIFICATE**

20 I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as
21 evidenced by my signature above do hereby certify as follows:

22 The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular
23 meeting by the members of the Guam Consolidated Commission on Utilities, duly and
24 legally held at a place properly noticed and advertised at which meeting a quorum was
25 present and the members who were present voted as follows:

26 AYES: 5

27 NAYS: 0

28 ABSTENTIONS: 0

29 ABSENT: 0
30
31
32



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March 13, 2024

Mr. Brett Railey, PE
Engineering Supervisor
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam 96913

RE: Contract Change for PW12-04 Design Services for GWA's Central Water Reservoirs, GWA Project W14-006-BND
Contract Amendment for Design Additions for Wells A-23 and A-25

Dear Mr. Railey:

This letter amends our Scope of Work and fee for the above referenced project. The scope of work descriptions below define the additional and amended design services GHD will provide in connection with the Design Services for GWA's Central Water Reservoirs Project for Wells A-23 and A-25. The original project fee will be amended on a lump sum fee basis per the fees shown in the attached Scope Amendment Table. This change of scope was discussed and agreed upon during a site visit on February 7, 2024 and a meeting on March 6, 2024 with some drawings provided by GWA.

1. SCOPE OF WORK

A. GAC SITE

- a. Electrical - The list below includes electrical and instrumentation improvements to the Wells A-23 and A-25 and GAC treatment sites included in the design scope of work
 - i. Power and communication conduit routing site plan
 - ii. Power and communication conduit routing or radio communication from the GAC site and A-23 site to A-25 building. This includes instrumentation conduit from pressure transmitters and security cameras and power for lighting at the GAC site.
 - iii. Lighting plan
 - iv. Camera plan
 - v. Lighting and camera poles and mounting details

B. WELL A-23

- a. Civil – The list below includes civil improvements included in the design scope of work
 - i. Demolition and clearing of the well site
 - ii. New well piping and pipe supports
 - iii. Grade and gravel area within fence line
 - iv. Demo and expand fence on north side
 - v. Wellhead painting and sealing
 - vi. Painting of building inside and outside

- vii. Demolition of unused items inside the chlorination building and infill and sealing of penetrations.
- viii. Replace chlorination building door with a sliding or roll-up door.
- ix. Cap existing distribution line connection to the site and abandon existing valve
- b. Chlorination System - The list below includes improvements to the chlorination system included in the design scope of work
 - i. Remove existing chlorination equipment and piping from the building
 - ii. Replace the chlorine booster pump (GWA to provide size and specifications)
 - iii. New chlorination injection lines
 - iv. Move chlorine injection vault inside fence
 - v. Verify the connection point of the sampling line for the chlorine analyser and determine if it needs to be relocated
 - vi. Replace chlorine scales, regulators, alarm, and other chlorination system equipment. (GWA to provide size and specifications)
 - vii. Replace exhaust fan at existing location.
- c. Electrical - The list below includes electrical and instrumentation improvements included in the design scope of work
 - i. Demolition of the electrical conduit on and inside the building (underground conduit to remain where possible)
 - ii. Power and communication conduit routing site plan and building plan, replacing the circuit breaker panel and disconnect switch (all new above ground conduit on the building)
 - iii. Additional conduit, as-needed, for flow meter, pressure transmitters (2), and level sensor from well piping
 - iv. New pressure transmitter and flow meter in vault on GAC discharge line
 - v. Exterior and interior lighting plan that replaces the existing light over the door and interior light.
 - vi. Camera plan (2 wall mounted, model and specifications from GWA)
 - vii. New concrete pedestal and SSTL cabinet for the chlorine analyser and meter displays

C. WELL A-25

- a. Civil - The list below includes civil improvements included in the design scope of work
 - i. Demolition and clearing of the well site
 - ii. Demolition of sampling valve and cap the existing line
 - iii. New well piping and pipe supports
 - iv. Grade and gravel area within fence line and outside the gate
 - v. Replace fence on new jersey barriers
 - vi. Remove eyewash from generator building
 - vii. Demolition of existing outside eyewash and piping and replace with a combination shower/eyewash station and connect to transmission line.
 - viii. Wellhead painting and sealing
 - ix. Demolition of chlorine analyser
 - x. Painting of building inside and outside
- b. Electrical - The list below includes electrical and instrumentation improvements included in the design scope of work

- i. Power and communication conduit routing site plan and building plan
- ii. Conduit for flow meter, pressure transmitters (2), and level sensor from well piping
- iii. Demolition and replacement of the generator and exhaust shroud (sized by GWA)
- iv. Replacement of the existing ATS (2)
- v. Control panel:
 - 1. Replacement of the SCADA Pak with Rockwell Automation (2)
 - 2. Replacement of the UPS (2)
 - 3. Replacement of the HMI (2)
 - 4. Connect flow meter data (3) to the SCADA system
 - 5. Connect the pressure transmitters from A-23 (3) and A-25 (2) to the SCADA system
 - 6. Monitor generator with SCADA system
- vi. Install Tropos antenna
- vii. Exterior lighting plan that replaces the existing light over the door and adds two new fixtures
- viii. Camera plan (4 wall mounted) with NVR saving data from GAC, A-23 and A-25 (model and specifications from GWA).

D. DOCUMENTS

- a. Plan Sheets Added or Revised (others may be added as needed to provide the detail for the changes above)
 - i. Sheet numbering in general
 - ii. T-002: Index of drawings (Rev)
 - iii. C-102: Demo plan, revise to conform to changes (Rev)
 - iv. A-23 Site demo, use GWA CAD but conform to set (Add)
 - v. A-25 Site demo, use GWA CAD but conform to set (Add)
 - vi. C-103: Site layout revised to remove blowup (Rev)
 - vii. C-105: A-25 Site plan, combine GHD and GWA into one (Rev, use GWA CAD)
 - viii. C-106: Site grading and drainage plan, revise to conform to changes (Rev)
 - ix. C-107: Site utility plan, revise to conform to changes (Rev)
 - x. C-201: Profile, revise to conform to changes (Rev)
 - xi. C-301: Well A-23 section, revise to conform to changes (Rev)
 - xii. C-302: Well A-23 section, revise to conform to changes (Rev)
 - xiii. C-303: Well A-25 section, revise to conform to changes (Rev)
 - xiv. E-001: Electrical legend and schedule (Add)
 - xv. E-101: Overall electrical site plan (Add)
 - xvi. E-102: GAC electrical and instrumentation site plan, use GWA CAD but conform to set (Add)
 - xvii. E-103: Well A-23 electrical site plan, use GWA CAD but conform to set (Add)
 - xviii. E-104: Well A-25 electrical site and bldg plan, use GWA CAD but conform to set (Add)
 - xix. E-401: Well A-23 chlorination building electrical plan (Add)
 - xx. E-402: Well A-25 building electrical plan (Add)
 - xxi. E-501: Electrical details (Add)
 - xxii. E-502: Electrical details (Add)

- xxiii. E-503: Electrical details (Add)
 - xxiv. E-601: Single line diagram (Add)
 - xxv. E-602: panel schedule and notes (Add)
 - xxvi. J-001: P&ID and matrix (Add)
 - xxvii. J-002: Local control panel revisions (Add)
 - xxviii. J-101: Well A-23 instrumentation site plan, use GWA CAD but conform to set (Add)
 - xxix. J-102: Well A-25 instrumentation site and bldg. plan, use GWA CAD but conform to set (Add)
 - xxx. J-601: Well A-23 instrumentation connection diagrams (Add)
 - xxxi. J-602: Well A-25 instrumentation connection diagrams (Add)
- b. Specifications
 - i. Civil (Update to latest)
 - ii. Electrical (Update and Add)
 - iii. Include two deep well cameras to be provided by contractor
 - iv. SCADA (Update and Add)
 - c. Cost Estimate – update original and additional items
 - d. Bid Form – update original and additional items

E. DELIVERABLES - Deliverables to GWA will be provided in accordance with the following:

- 1. Schedule
 - a. Digital copy of the Project Schedule
 - b. 1 hard copy of the Project Schedule
- 2. 60% Design Plans
 - a. 5 hard copies of the 60% design documents (plan and specification submittal shall consist of 5 sets of 11"x17" sized drawings)
 - b. Digital copy of the 60% design documents
- 3. 90% Design Plans
 - a. 5 hard copies of the 90% design documents (plan and specification submittal shall consist of 5 sets of 11"x17" sized drawings)
 - b. Digital copy of the 90% design documents
 - c. 90% Engineer's Estimate
- 4. 100% Design Plans
 - a. 5 hard copies of the final design documents (plan a submittal shall consist of 2 sets of 36"x24" sized drawings and 5 sets of 11"x17" sized drawings and specifications)
 - b. Digital copy of the final design documents

F. CONSTRUCTION BID SUPPORT SERVICES

- a. Provide engineering services during bidding, consisting of the following:
 - i. Assist with preparing answers to questions regarding the bid packages during the bidding phase.
 - ii. Lead the Pre-Bid Conference and respond to technical question involving design and specifications that prospective bidders may have. Prepare Pre-Bid Conference meeting agenda, sign-in sheets, and site visit. Record Pre-Bid Conference. Preparation of meeting minutes and providing formal responses to technical questions.
 - iii. Assist with preparation of bid addenda.

- iv. Review construction proposals received. This shall include a bid analysis, review of bid proposal prices, and conformance with contract requirements and the Guam Procurement Code. A letter of recommendation of award shall be prepared.

G. DESIGN SUPPORT SERVICES DURING CONSTRUCTION

- a. Provide engineering services during construction, consisting of the following:
 - i. Prepare Final (100%) "Issued for Construction" conformed plans and specifications incorporating addenda, change orders and changes during the bid phase.
 - ii. Review submittals, shop drawings, design calculations, samples, test results, RFI's, Change Orders, schedule, and other data required to be submitted by the contractor for conformance with the contract documents.
 - iii. Review requests for clarification or interpretation submitted by contractor and provide responses to GWA.
 - iv. Evaluate substitution requests to determine acceptability of substitute materials and/or equipment proposed by the contractor and provide recommendations to GWA.
 - v. Attend construction meetings and site visits (as requested)
- b. Prepare punch list items prior to substantial completion and coordinate with GWA CM on the punch list items.
- c. Work with CM to close out the punch list items.

2. Client Provided Information

- a. CADD files produced by GWA of the well sites.
- b. Consolidated review comments on each submittal.

3. Assumptions and Exclusions

- a. This change proposal only applies to the scope of work. The terms of the original executed agreement still apply.
- b. Design additions are based on GWA requests and layout.
- c. The cost estimate will include the additional items and original items for a full project cost estimate.
- d. Utility potholing services are excluded.
- e. It is assumed that the Contractor will prepare the construction permit applications, route the permit applications through the required government agencies, and pay permit fees.
- f. Effort to revise or update bid packages that have expired due to delayed bid advertisement. GWA agrees to negotiate with GHD for change orders for additional work that may include such services as restamping plans and specifications, verifying design based on a change in the adopted building code or design standards, and pre-printing of the bid packages.
- g. Additional design period services due to additional and out of scope work, delays or any other reasons not due to errors/omissions or issues beyond GHD's control.
- h. Work performed will be billed monthly based on the estimated percent complete.

4. Fee Schedule

Task	Fee
Project management and scope preparation	\$7,100
Sheet Revisions	\$2,330
Civil Site Additions	\$6,387
Chlorination Building and Equipment Design	\$9,596
Electrical Design	\$11,648
Instrumentation Design	\$8,288
Cost Estimating	\$7,720
Bid Form Revision	\$820
Specifications	\$3,752
Construction Bid Support Services	\$5,480
Design Support Services During Construction	\$11,835
GRT (5.25%)	\$3,935
Total	\$78,891