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### **GUAM CONSOLIDATED COMMISSION ON UTILITIES**

#### **RESOLUTION NO. 16-FY2017**

RELATIVE TO APPROVAL OF CONTRACT AMENDMENT TO THE CONSTRUCTION MANAGEMENT SERVICES FOR THE PW 12-04 CHAOT AND AGANA HEIGHTS DESIGN/BUILD RESERVOIR REPLACEMENT PROJECT; COURT ORDER PARAGRAPH 28(C)

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, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA currently has a number of critical Court Order ("CO") projects including the Chaot and Agana Heights Design/Build Reservoir Replacement Project which is Item 28 (c) of the amended stipulated order; and

WHEREAS, GWA contracted AMOrient Engineering to provide design review and construction management services for the Chaot and Agana Heights Design/Build Reservoir Replacement project in the amount of \$639,316.90; and

WHEREAS, Resolution No. 22-FY2013 (Exhibit A) and No. 28-FY2015 (Exhibit B) authorized total funding of \$1,281,980.28 for the initial design review and construction management services, and extension of the construction management services due to the contractor's delays; and

WHEREAS, GWA issued Change Order No. 1, 2, 3, and 4 to AMOrient Engineering to extend the construction management services to November 2015 due to delays by the construction Contractor; and

WHEREAS, the revised project's construction substantial completion date subsequently moved to December 2016 due to continued delays by the construction Contractor, but which also required continued construction management services from AMOrient Engineering; and

WHEREAS, GWA Management has ended on-site construction management services with AMOrient Engineering on December 31, 2016, given that the remaining work to be done by the contractor was minimal and manageable by GWA engineering staff; and

WHEREAS, the cost for construction management services for the period of December 2015 to the end of December 2016, was assessed to be Three Hundred Forty-Six Thousand Five Hundred Forty One Dollars (\$346,541.00) above approved funding levels (Exhibit C); and

WHEREAS, the means of addressing payment for the additional services covered by AMOrient Engineering is intended be through the provisions of the construction contract contained in Section 4: Liquidated Damages, which allows for GWA to assess liquidated damages to the construction Contractor up to the amount of Two Thousand Nine Hundred Dollars (\$2,900.00) per day (excluding Sundays and legal holidays) for breach of the Contract; and

WHEREAS, GWA has been assessing liquidated damages to the construction Contractor for each unexcused working day starting October 18, 2014 until Final Completion for incurred costs related to construction management services which were due to the construction Contractor delays; and

WHEREAS, GWA Management is requesting authorization to modify the construction management contract to cover the period of December 2015 to the end of December 2016 and to increase the funding amount to the contract by Three Hundred Forty-Six Thousand Five Hundred Forty-One Dollars (\$346,541.00) to fund the construction management cost; and

WHEREAS, the approval of the increase in funding amount would bring the total cost of construction management services from AMOrient Engineering to One Million Six Hundred

Twenty-Eight Thousand Five Hundred Twenty-One Dollars and Twenty Eight Cents (\$1,628,521.28); and

WHEREAS, the assessed liquidated damages will be applied to fund the additional construction management work upon the closeout of the project and the construction contract; and

WHEREAS, in order to minimize any further unnecessary expenses, the finalization and closeout of the construction management contract will occur prior to the completion of the construction contract, and therefore GWA is intending to meet the financial obligation to the CM by funding payment of their remaining invoice through Internally Funded CIP, along with PW 12-04 and PW 05-05 as alternate sources until such time "re-imbursement" from funds held from the contractor as part of liquidated damages is made; and

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

- 1. The recitals set forth above hereby constitute the findings of the CCU; and
- 2. The CCU hereby authorizes GWA management to amend the construction management contract to cover the period of December 2015 to the end of December 2016 and to increase the amount of Three Hundred Forty Six Thousand Five Hundred Forty-One Dollars (\$346,541.00) to fund the additional construction management cost (Exhibit C); and
- 3. The CCU hereby approves the funding total for the construction management services to be One Million Six Hundred Twenty Eight Thousand Five Hundred Twenty-One Dollars and Twenty Eight Cents (\$1,628,521.28); and
- 4. The CCU further approves funding the construction management invoice through Internal Funded CIP, along with PW 12-04 and PW 05-05 as alternate source until such time "re-imbursement" from funds held from the contractor as part of liquidated damages is made; and
- 5. The CCU approves that money received from the construction liquidated damages will be applied to funding sources used for the additional construction management work.

of this Resolution. **DULY AND REGULARLY ADOPTED**, this 24th day of January 2017. Certified by: Attested by: JOSEPH T. DUENAS Chairperson I, J. George Bamba, 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: NAYS: ABSTENTIONS: ABSENT: /// /// 

RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption

#### **GUAM CONSOLIDATED COMMISSION ON UTILITIES**

#### **RESOLUTION NO. 22-FY2013**

# RELATIVE TO APRROVING THE CONSTRUCTION MANAGEMENT CONSULTANT FOR THE PW 12-04 CHAOT AND AGANA HEIGHTS DESIGN/BUILD RESERVOIR REPLACEMENT PROJECT; COURT ORDER PARAGRAPH 28(C)

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, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA currently has a number of critical Court Order ("CO") projects including the Chaot and Agana Heights Design/Build Reservoir Replacement Project which is Item 28(c) of the amended stipulated order and which must be completed by January 21, 2014; and

WHEREAS, the Chaot and Agana Heights Design/Build Reservoir Replacement Project includes the construction of a booster pump station, 500,000 gallon pre-stressed concrete reservoir in Chaot and 500,000 gallon pre-stressed concrete reservoir in Agana Heights and requires specialized inspection and testing services to ensure the construction of the project is completed on schedule, within budget, constructed properly and meets the project design standards with particular attention being paid to the longevity and quality of the crucial public utility structure; and

WHEREAS, GWA has advertised the Request For Proposals (RFP-01-ENG-2013) soliciting statement of qualifications from experienced and qualified engineering firms to assist GWA during the design phase and manage the construction activities for the Chaot and Agana Heights Design Build Reservoirs Replacement Project; and

WHEREAS, RFP packages were picked up by sixteen (16) engineering firms, from which GWA received proposal submittals from ten (10) of the sixteen (16) firms before the RFP submittal deadline; and

WHEREAS, the GWA A-E Selection Committee reviewed and evaluated all ten proposals (see EXHIBIT A- Evaluation Score) and generated a short list of the top three (3) firms with a recommendation to award a contract to the firm AmOrient Engineering (AmOrient and any successor at interest thereto) (see EXHIBIT B – Evaluation Summary and GM Determination); and

WHEREAS, AmOrient and GWA negotiated the price for the services to be provided in the total amount of Six Hundred Thirty Nine Thousand Three Hundred Sixteen Dollars and Ninety Cents (\$639,316.90) attached hereto as (EXHIBIT C – Fee Proposal); and

WHEREAS, GWA management seeks CCU approval of the fee proposal amount of Six Hundred Thirty Nine Thousand Three Hundred Sixteen Dollars and Ninety Cents (\$639,316.90) along with a twenty percent (20%) contingency to bring the total authorized funding amount to a maximum of Seven Hundred Sixty Seven Thousand One Hundred Eighty Dollars and Twenty Eight Cents (\$767,180.28); and

WHEREAS, the source of funding for the construction management services will be from the 2005 Bond under the line item "A Series Well Transmission Line"; and

WHEREAS, GWA management recommends that a contract be entered into with AmOrient in the aforementioned amount.

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

- 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 "AmOrient" are fair and reasonable.

- The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- The CCU hereby authorizes the management of GWA to accept the fee proposal (EXHIBIT C) from "AmOrient" which is also incorporated into this Resolution in its entirety.
- The CCU hereby further authorizes the management to enter into a contract with "AmOrient", in the amount of Six Hundred Thirty Nine Thousand Three Hundred Sixteen Dollars and Ninety Cents (\$639,316.90).
- 6. The CCU hereby further approves funding the total of Six Hundred Thirty Nine Thousand Three Hundred Sixteen and Ninety Cents (\$639,316.90) plus a twenty percent (20%) contingency to bring the total authorized funding amount to a maximum of Seven Hundred Sixty Seven Thousand One Hundred Eighty Dollars and Twenty Eight Cents (\$767,180.28).

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

DULY AND REGULARLY ADOPTED, this 23<sup>rd</sup> day of April 2013.

Certified by:

SIMON A. SANCHEZ, II

Chairperson

Attested by:

JOSEPH T. DUENAS

Secretary

 I, Joseph T. Duenas, 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: 4

NAYS: 0

ABSTENTIONS: 0

ABSENT: 1



### **GUAM WATERWORKS AUTHORITY**

DNA Building, Suite 502 • 238 Archbishop Flores Street • Hagatna, Guam 96910

February 12, 2013

To:

Thomas F. Cruz, P.E, Chief Engineer

From:

Chairperson, Consultant Selection Board

Subject:

PW 12-04 Construction Management Services for Chaot & Agana Heights

Design/Build Reservoir Replacement GWA Project no. W12-005-BND

This following information is intended to document the evaluation process undertaken for the referenced solicitation.

| EV                     | ALUATION COMMITTEE MEMBERS |  |
|------------------------|----------------------------|--|
| Name                   | Title                      |  |
| Menglou Wang, P.E.     | Assistant Chief Engineer   |  |
| Brett Railey, P.E.     | Engineer Supervisor        |  |
| Julio Morais           | Engineer Supevisor         |  |
| Clinton Huntington, II | Senior Engineer            |  |
| Garrett Yeoh           | Senior Engineer            |  |

|     | Consultant                                |    | Eval | luation ! | Score |    | Total | Rank |
|-----|---|----|------|-----------|-------|----|-------|------|
| 1.  | SSFM International                        | 87 | 74   | 78        | 69    | 80 | 388   | 4    |
| 2.  | EMPSCO Engineering Consultants            | 93 | 83   | 70        | 63    | 70 | 379   | 7    |
| 3.  | E.M. Chen & Associates, Inc.              | 84 | 69   | 83.5      | 73    | 75 | 384.5 | 6    |
| 4.  | N.C. Macario & Associates, Inc.           | 83 | 67   | 83        | 75    | 78 | 386   | 5    |
| 5.  | LYON Associates                           | 88 | 86   | 73        | 89    | 92 | 428   | 2    |
| 6.  | Oyo Corporation Pacific                   | 87 | 82   | 81.5      | 70    | 83 | 403.5 | 3    |
| 7.  | Masoud & Company                          | 77 | 74   | 76        | 57    | 69 | 353   | 9    |
| 8.  | Juan C. Tenorio, P.E. Consulting Engineer | 78 | 60   | 60.5      | 50    | 67 | 315.5 | 10   |
| 9.  | AmOrient Engineering                      | 94 | 88   | 84        | 76    | 90 | 432   | 1    |
| 10. | GMP International, LLC                    | 86 | 69   | 82.5      | 47    | 75 | 359.5 | 8    |

Scores were evaluated based on straight average of the individual scores as well as an average of the scores after eliminating the high and low scores. The results were the same for both and therefore the recommendation of the evaluation committee is shown in the ranking above.

GLOBIA P. BENSAN



Exhibit B (1 of 1)

# **GUAM WATERWORKS AUTHORITY**

DNA Building, Suite 502, 238 Archbishop Flores St., Hagatna, Guam 96910 • Tel. (647) 646-7810

### **MEMORANDUM**

|                 | INICIAINORAINDOIN  |
|-----------------|--|
| February 12, 20 | 013  |
| То:             | Martin L. Roush, P.E.<br>General Manager   |
| From:           | Thomas F. Cruz, P.E. Chief Engineer  |
| Subject:        | RFP-01-ENG-2013 Evaluation Summary PW 12-04 Construction Management Services for Chaot & Agana Heights Design/Build Reservoir Replacement  |
| consultant for  | Committee has completed all necessary actions for selecting the most qualified the referenced solicitation. All proposals were reviewed and scored according to the blished in the solicitation. |
| The committee   | recommends the following top three (3) firms in order of preference:   |
| 2. LYO          | Orient Engineering ON Associates O Corporation Pacific   |
| The evaluation  | summary sheet is attached for your information.  |
|                 | GENERAL MANAGER'S DETERMINATION  |
| Consultant Firm | Selected: An Orlean Engracerung 2/20/13  |
| Remarks:        |  |
|                 |  |

MARTIN L. ROUSH, P.E. General Manager



Exhibit C (1 of 16)

10 April 2013

Mr. Thomas F. Cruz, PE Chief Engineer Guam Waterworks Authority DNA Building, Suite 502 238 Archbishop Flores Street Hagatna, Guam 96910

Attention:

Ms. Gloria P. Bensan

Engineer III

Subject:

Construction Management Services for the Chaot and Agana Heights

Design/Build Reservoir Replacement

Dear Mr. Cruz:

We are submitting herewith our revised fee proposal for the provision of Construction Management Services for the Chaot and Agana Heights Design/Build Reservoir Replacement based on the revised scope of work provided on 28 March 2013 and discussions on 5 and 9 April 2013.

Based on the revised SOW, please find below our assumptions for the construction management services:

- The CM services shall be provided during the 12 month construction duration, 3 months of which will be for design and permit acquisition and 9 months for construction and closeout
- The Sr. Inspector will provide engineering services during the pre-construction phase, assumed 3
  months and Project Manager shall provide oversight during such period
- 3. Full time inspection shall be provided at 2 sites for 9 months during construction period.
- \$25,000 allowance will be provided for GWA Testing and \$10,000 for Construction Survey Services.
- 5. Review of submittals/shop drawings.
- 6. Review of DB Contractor's design documents at 60%, 90% and 100% design stages.
- The Contractor shall provide for field office complete with furnishings, telephones, copying machine, fax machine and internet connectivity/service at no cost to AmOrient.
- 8. Detail of the assumptions is provided in the attached.

The proposed Firm Fixed Fee Amount is

\$639,316.90

(Six hundred thirty-nine thousand, Three hundred sixteen and 90/100 dollars)

Please find attached, as required, excel file of our fee proposal.

We thank you for considering our firm for these services. Should you have any question, please give us a call. We look forward in working with you on this project.

Senseramente

AmOrient Engineering

John M Robertson PE President & Principal Engineer

Attachment: AmOrient Fee Proposal

# Exhibit C (2 of 16)

GWA PROJECT NO. 01-ENG-2013 AMORIENT FEE PROPOSAL Construction Management Services for the Chaot & Agana Heights Design/Build Reservoir Replacement 10-Apr-13

| Phase Letter<br>Task Number         |  | Principal Engin    | Proj Mgri<br>Resident<br>Engineer | Specialty<br>Inspector - SE  | Schedulen'Sr.<br>Project<br>Engineer | Sr. Inspector        | inspector | Admi-         | Woman     | AMOUNT                       | REMARKS  |
|-------------------------------------|--|--------------------|-----------------------------------|--|--------------------------------------|----------------------|-----------|---------------|-----------|------------------------------|--|
| 1.1                                 | HOURLY LABOR RATES   | \$ 220.00          | \$ 196.00                         | \$ 164.00  | \$ 144.00                            | \$ 144.00            | \$ 100.00 | \$            | 60.00     |                              |  |
| 1.1.1                               | CM QUALITY ASSURANCE   |                    | 8                                 |  |                                      | 40                   |           |               |           | \$ 7,328.00                  | 1/4 time during 3 months for Sr Inspector  |
| 1.1.2                               | CONSTRUCTION MANAGEMENT PLAN<br>REVIEW D-B CONTRACTOR'S DESIGN |                    | 8                                 | 56   |                                      | 40                   |           |               |           | \$ 7,328.00                  |  |
| 1.1.4                               | DELIVERABLES   |                    | 11 1 1                            | 30   | 11.41                                |                      | -         | +-            | 30        |                              | Review at 60%, 90% and 100% design stages Revised hours  |
| 1.2                                 | CONSTRUCTION PHASE TASKS                                       |                    |                                   | ESTATE OF THE PARTY OF THE PART |                                      | 800 S25721           |           |               | Charles . |                              |  |
| 1.2.1                               | CONTROLS   | 48                 | 20                                |  |                                      |                      |           |               |           | \$ 14.480.00                 | 9 month full time for Inspectors, 1440 hrs each  |
| 1.2.2                               | PROJECT CORRESPONDENCE   |                    |                                   | 11 1   |                                      | 180                  |           |               |           | \$ 25,920.00                 | from July to March 2014  |
| 1.2.3                               | DAILY CONSTRUCTION LOGS<br>MATERIAL TESTING FORMS              |                    |                                   |  |                                      |                      | 72        |               |           | \$ 7,200.00<br>\$ 3,600.00   |  |
| 1.2.5                               | PROGRESS PHOTO LOG   |                    |                                   |  |                                      |                      |           | 3             |           | \$ 900.00                    |  |
| 1.2.6                               | SUBMITTALS & SHOP DRAWINGS CONTRACTOR PROJECT SCHEDULES        |                    | 30                                |  | 300                                  |                      |           |               |           | \$ 49,080.00                 | Review of estimated 300 submittals at 3 hrs each   |
| 1.2.8                               | PAYMENT REQUESTS   |                    | 20                                |  | 72                                   | 48                   |           | -             |           | \$ 10,368.00<br>\$ 10,832.00 |  |
|                                     | PAYROLL REPORTS PROJECT MEETINGS                               |                    |                                   |  |                                      |                      | 18        | 3             |           | \$ 1,800.00                  |  |
|                                     | PRE-CONSTRUCTION PHASE   |                    | 8                                 |  |                                      | 8                    |           |               |           | \$ 3,520.00                  |  |
|                                     | PROGRESS MEETINGS  |                    | 72                                |  |                                      | 80                   |           |               |           | \$ 32,832.00                 |  |
|                                     | AS-BUILT DRAWINGS REVIEWS OTHER MEETINGS                       |                    | 0                                 |  |                                      | 72                   |           |               |           | \$ 10,368.00                 |  |
| 1.2.11                              | RFI  |                    |                                   |  |                                      | 32<br>8              | 36        | -             | 80        | \$ 9,776.00<br>\$ 7,520.00   |  |
|                                     | GENERAL COMPLIANCE MONITORING                                  |                    |                                   | 100 100 10   |                                      |                      |           |               |           | \$ -                         |  |
| 1.2.12.2                            | REGULATIONS & LAWS  LABOR LAWS                                 |                    | 9                                 |  | -                                    | 40                   |           |               | - 11      | \$ 5,760.00<br>\$ 1,764.00   |  |
| 1.2.12.3                            | LICENSURE  |                    |                                   |  |                                      | 20                   |           |               |           | \$ 2,880.00                  |  |
|                                     | INSURANCE<br>CLAIMS & DISPUTES                                 |                    | 9                                 |  |                                      | 10                   |           |               |           | \$ 3,204.00                  |  |
| 1.2.13.1                            | CLAIM RECORDS  |                    | 9                                 |  |                                      |                      |           | +             |           | \$ -<br>\$ 1,764.00          |  |
|                                     | CLAIMS REVIEWS & INTERPRETATIONS CHANGE ORDER REVIEW           |                    | 9                                 |  |                                      |                      |           |               |           | \$ 1,764.00                  |  |
|                                     | DESIGN CHANGES   |                    | 9                                 |  |                                      |                      |           | -             | -         | \$ 1,764.00<br>\$ 1,764.00   |  |
|                                     | DESIGN CHANGE/VERIFICATION<br>REQUEST                          |                    |                                   |  |                                      |                      |           |               |           |                              |  |
|                                     | CHANGE ORDER NEGOTIATION WITH                                  |                    | 9                                 |  |                                      |                      |           |               | -         | \$ 1,764.00                  |  |
| 1.2.13.6                            | CONTRACTOR   |                    | 9                                 |  |                                      |                      |           |               |           | \$ 1,764.00                  |  |
|                                     | CHANGE ORDER DOCUMENTS PROJECT RECORDS & DOCUMENT              |                    | 9                                 |  |                                      |                      |           |               |           | \$ 1,764.00                  |  |
| 1.2.14                              | MANAGEMENT/COMMUNICATION                                       |                    |                                   |  |                                      |                      |           |               | 304       | \$ 18,240.00                 |  |
|                                     | CONSTRUCTION OBSERVATION, SPECIAL INSPECTION & QUALITY CONTROL |                    |                                   |  |                                      |                      |           |               |           |                              |  |
| 1.2.15                              | MONITORING   |                    |                                   |  | 115                                  | 17 11 17             |           |               |           | \$                           |  |
|                                     | ON-SITE OBSERVATION SPECIAL INSPECTIONS                        |                    |                                   | 400  |                                      | 878                  | 1125      |               |           | \$ 238,932.00                |  |
|                                     | TESTING  |                    |                                   | 160  |                                      |                      |           |               | _         | \$ 26,240.00                 |  |
|                                     | CONTRACTOR TESTING   |                    |                                   |  |                                      |                      |           |               |           | \$ -                         |  |
| 1.2.16.2                            | CM/CQA TESTING<br>GWA TESTING                                  |                    |                                   |  |                                      |                      |           |               |           | \$ 25,000.00                 | Revised allowance provided by GWA  |
|                                     | ACCEPTANCE   |                    |                                   |  |                                      |                      |           |               |           | \$                           | The second secon |
|                                     | CONSTRUCTION SURVEY SERVICES PROJECT CLOSEOUT                  |                    |                                   |  |                                      |                      |           |               |           | \$ 10,000.00<br>\$           | Revised allowance provided by GWA  |
| 1.2.18.1                            | PUNCH LIST DEVELOPMENT   |                    |                                   |  |                                      | 16                   | 40        |               |           | \$ 6,304.00                  |  |
|                                     | PROJECT CLOSEOUT INSPECTIONS TRAINING & WARRANTY PERIODS       |                    | 16                                |  |                                      | 24                   | 24        |               |           | \$ 8,992.00                  |  |
| 1.2.19.1                            | TRAINING   |                    |                                   |  |                                      | 24                   |           |               |           | \$ -<br>\$ 3,456.00          |  |
|                                     | WARRANTIES POST CONSTRUCTION SERVICES                          |                    | 8                                 |  |                                      |                      |           |               |           | \$ 1,568.00                  |  |
| 1.3.1                               | FINAL REPORT   |                    | 8                                 |  |                                      | 16                   |           |               |           | \$ 3,872.00                  |  |
|                                     | RECORD DRAWINGS<br>DELIVERABLES                                |                    |                                   |  |                                      | 40                   |           |               |           | \$ 5,760.00                  |  |
| 2 1                                 | PROJECT MANAGEMENT   |                    |                                   |  |                                      |                      |           |               | 20        | \$ 1,200.00                  |  |
|                                     | PROGRESS PAYMENT PREPARATION                                   |                    | 42                                |  |                                      |                      |           |               |           | \$ 8,232.00                  | W. C. Charles and C.  |
|                                     | Profit<br>SUB-TOTAL  | 48                 | 337                               | 216  | 372                                  | 1576                 | 1440,     |               | 434       | \$ 597,588.00                |  |
|                                     | TOTAL DIRECT COST  |                    |                                   |  | 3/2]                                 | 1376                 | 1440)     | Married World | 434       | \$ 597,588.00                |  |
| 3 1                                 | NDIRECT COSTS  |                    |                                   |  |                                      |                      |           |               |           |                              | THE RESIDENCE OF THE PARTY OF T |
| 3.1                                 | Cell Phones/Office support                                     |                    |                                   |  |                                      |                      | Units     | Rat           |           | Amount                       |  |
| 3.2                                 | Vehicles/Mileage   |                    |                                   |  |                                      |                      | 18        |               | 6.55      |                              | 2 cell phone charges for 9 months  |
| 3.3                                 | Paper/Reproduction   |                    |                                   |  |                                      |                      | 21600     |               |           | \$ 11,880.00<br>\$ 456.00    | at 30 miles for 180 days for 2 staff for 2 ways  |
| 3.4                                 | Camera   |                    |                                   |  |                                      |                      | 2         |               | 0.00      |                              | Will be turned over to GWA upon project completion   |
| 3.5                                 | Laptop   |                    |                                   |  |                                      |                      |           | \$ 1,200      |           |                              | Will be turned over to GWA upon project completion   |
|                                     | Profit<br>Sub-total  |                    |                                   |  |                                      |                      |           |               | $\Box$    | \$ -                         |  |
| THE R. P. LEWIS CO., LANSING, MICH. | TOTAL INDIRECT COST  |                    |                                   |  |                                      |                      |           |               |           | \$16,153.90                  |  |
|                                     | TOTAL DIRECT & INDIRECT COST                                   |                    |                                   |  |                                      |                      |           |               |           | \$16,153.90<br>\$613,741.90  |  |
|                                     | GRT  |                    |                                   |  |                                      |                      |           | 70/           | -         |                              |  |
| I C                                 | 37.1   | Old and the second |                                   |  |                                      | to the second second | 4.17      | 70            | ,         | \$25,575.00                  |  |

#### **SCOPE OF WORK**

### A. CONSTRUCTION MANAGEMENT (CM) DESCRIPTION OF EFFORT:

The proposer will provide CM Agent Services on behalf of GWA for the construction of two 0.5 million gallon water storage tanks at Chaot and Agana Heights, and a booster pump station at Agana Heights.

The existing reservoirs are constructed from welded steel and store approximately 0.5 M gallons each. The new reservoirs will be 0.5 M gallons each and essentially identical in design, constructed from prestressed concrete conforming to ANSI / AWWA D110 for Type 1 Wire- and Strand- Wound, Circular Prestressed Concrete Water Tanks.

# B. TASK 1: PRE-CONSTRUCTION, CONSTRUCTION, AND POST-CONSTRUCTION PHASE SERVICES:

#### 1. General CM Scope of Work.

The Construction Manager (CM), will provide services relating to the field observation, testing, supervision, management, coordination, and compliance monitoring for the construction of the Chaot Reservoir & Agana Heights Reservoirs (0.5 Million Gallon capacity each) and the associated booster pump station construction. The project generally consists of geo-technical ground improvements, demolition of existing tank structures, construction of a 0.5 million gallon pre-stressed concrete tank conforming to ANSI / AWWA D110 for Type 1 Wire- and Strand- Wound, Circular Prestressed Concrete Water Tanks (site adapted for each location), electrical and SCADA controls, plus all associated utilities for each site.

The construction management, testing, and field observation services for this dual reservoir replacement project will require general construction management and observation as well as specialized inspection and testing.

#### 2. Specialized Scope of Work.

In addition to general construction management duties, the specialized inspection and/or testing identified for this Scope of Work includes the following:

- 1. Concrete placement
- 2. Concrete anchors
- 3. Grading
- 4. Excavation
- 5. Compaction grouting
- 6. Compaction testing
- 7. Pre-stressing operations
- 8. Concrete cylinder testing
- 9. Soil analysis
- 10. Instrumentation and SCADA
- 11. Disinfection

# Exhibit C (4 of 16)

In general, the proposer will be the CM as an independent contractor Owner's Representative of GWA whose primary functions are to:

- · Keep the GWA advised and informed as to progress and cost
- Manage the change process
- Disclose any information relevant to the GWA's interests
- Make proactive recommendations to the Owner for action to maintain progress and achieve the schedule and budget
- · Act in the best interests of the GWA

#### C. Task 1.1. PRE-CONSTRUCTION PHASE SERVICES

### Task 1.1.1 CM Quality Assurance.

The CM will review, record, and comment on submittal of Quality Control Plan submitted by the DB Construction Contractor. Upon receipt of the final construction drawings, the proposer will: develop, implement and maintain a Quality Assurance Plan for civil, structural, electrical and mechanical elements including specialized work related to the construction of concrete water reservoirs conforming to ANSI / AWWA D110 Type 1 Wire- and Strand- Wound, Circular, Prestressed Concrete Water Tank design and construction standard of similar size.

The proposer will file contractor certifications: review, file and submit inspection test results; and assess substantial completion.

Contents of the Quality Assurance Plan should include the following:

- Documentation of site conditions prior to beginning construction
- Review of approved submittals from the Contractor prior to fabrication or installation of materials and equipment
- Inspection, observation, and documentation of daily field work
- Monitoring of the Contractor's Quality Control Plan
- In-plant fabrication and/or witness testing at place of manufacture
- · Reports and record keeping
- Non-conforming and deficient work resolution process
- Monitoring the Construction Contractor's implementation of their Quality Control Plan

It is important to note, the CM is responsible for monitoring the Contractor's compliance with the Contract Documents, but is not responsible for the means and methods, techniques, sequences, or procedures the Contractor may use to perform the work.

#### Task 1.1.2: Construction Management Plan.

The proposer will develop and implement the Construction Management Plan including guidelines for project organization and coordination in the field, standard daily operations, change order procedures, safety, quality, and cost control. This Construction

# Exhibit C (5 of 16)

Management Plan (CM Plan) sets forth the procedures and approach for the construction of the project. The CM Plan will serve the proposer, the Owner's Representatives, and Contractors by defining the project, project team members and their roles, coordination among team members, procedures, and key milestones and schedule constraints. By establishing these parameters early in the project, the CM Plan will help control resources and costs, and establish communication and coordination between the proposer, the Designers and the Contractor.

### Task 1.1.3: Review of the Design-Build Contractor's Design

The CM shall perform reviews of the DB Contractor's design documents at the 60% and 90% design stages. The CM will provide redline mark-up of the plans and specifications and annotated comments for the contractors EOR's review and implementation at the 60% and 90% design stages.

#### Task 1.1.4: Deliverables.

Two (2) hardcopies and electronic PDF files of the following:

- 1) Quality Assurance Plan
- 2) Construction Management Plan
- 3) 60% design review comments
- 4) 90% design review comments

#### D. Task 1.2. CONSTRUCTION PHASE TASKS:

### Task 1.2.1: Implement & Maintain Project Controls (PC).

These services shall be provided to insure that the project is efficiently managed and constructed according to the terms of the Contract and the Request for Proposal. The PC function is concerned with gathering data regarding project progresses, producing progress reports; and monitoring time, cost, and quality.

The Project Controls system will include the following:

- A Cost Management Process that estimates, monitors, predicts, and reports project cost.
- A Planning and Scheduling Management Process that plans project activities, monitors completion of those activities, predicts timing of future activities, and reports schedule status.
- A Change Management Process that estimates the impact of change, enables and documents the change decision, and integrates the change into the project scope of work.

The proposer will use Primavera P6 software for Project Scheduling and Construction Cost/Resource Tracking, Document Management, and Cost Management.

# Exhibit C (6 of 16)

### Task 1.2.2: Project Correspondence (Review & Maintenance).

The CM shall prepare correspondence, reports, and inspection documentation as required to communicate project activities and issues with GWA and the Contractor. The CM shall develop a format for daily and weekly reports for the approval of GWA. At a minimum, the following reports and inspection documents shall be provided:

- Daily Construction Logs
- Materials Testing Forms
- Progress Photo Log
- Shop Drawing and Submittals Status
- Contractor Progress Schedule
- Request for Information Status
- Change Order Status
- Special Inspection Reports

### Task 1.2.3: Daily Construction Logs.

The onsite inspector(s) shall maintain a log of material deliveries, daily production, site conditions, field orders, punch lists, progress photos, material testing, documentation of delays, and other material facts and issues regarding prosecution of the work. The Daily Construction Log shall be available to GWA Project Engineer for review at any time.

#### Task 1.2.4: Material Testing Forms.

The CM shall prepare material testing forms for the approval of GWA. The forms shall capture all material testing requirements set forth by the Design Consultant.

#### Task 1.2.5: Progress Photo Log.

The CM shall prepare and retain a construction progress photo log in an organized album with phases of the project clearly labelled. The photo log shall capture all phases of the project pre-construction, during construction, and post-construction.

### Task 1.2.6: Submittals & Shop Drawings.

The CM shall review and act on (approve or reject) all submittals required by the Contract Documents. The CM shall review and provide recommendations regarding shop drawings, work drawings, traffic control, safety plan, demolition plan, and other submittals for conformance with the Contract. In the event of a Contractor request for a time extension or material or equipment substitution, the CM shall make a recommendation to GWA regarding the substitution. The GWA Chief Engineer will approve substitution. The CM shall monitor and oversee the DB contractor review process.

# Exhibit C (7 of 16)

#### Task 1.2.7: Contractor Project Schedules.

The CM shall review the Contractors work schedule for accuracy and for efficient sequencing of the work. The proposer will direct the Contractor to make any changes deemed necessary and coordinate approval of the revised schedule with GWA. Any delays shall be documented and notified to GWA and the Contractor when actual progress is behind schedule.

#### Task 1.2.8: Payment Requests.

The CM shall receive and process payment requests from the Contractor. Payment requests shall be reviewed for compliance with Bid and Contract requirements and with the actual work completed. Upon completion of the review, the CM shall make any necessary adjustments, certify, and forward the request to GWA for processing of the payment. The CM shall submit their review and recommendations within 5 working days of receipt from the Contractor.

#### Task 1.2.9: Payroll Reports.

The CM shall also review any payroll submittals required by the Contract including prevailing wage submissions. At a minimum, the Contractor and its subcontractors should be providing bi-weekly pay records for each of its employees on the project. The proposer will also conduct random employee interviews to verify the pay request information. Upon completion of the review, the CM shall require the Contractor to make any necessary adjustments, certify, and forward the Payroll report along with the pay request to GWA for processing.

#### Task 1.2.10: Project Meetings.

The CM shall schedule, arrange, and conduct conferences and meetings as required for clear communication of contract requirements and adherence to schedules.

The CM shall schedule, arrange, and conduct monthly project schedule meetings as required in the contract requirements. The CM shall prepare meeting minutes for all project schedule meetings with contractors, sub-contractors, and GWA.

#### Task 1.2.10.1: Pre-Construction Conference.

The CM shall prepare for, chair, and provide meeting minutes for the pre-construction conference. The pre-construction conference shall be arranged to discuss mobilization, prosecution of work, safety, environmental protection, historic preservation, processing payments, material submittals, testing procedure, project schedules, inspections, and all other contract issues as necessary.

#### Task 1.2.10.2: Progress Meetings.

# Exhibit C (8 of 16)

The CM shall arrange for a weekly progress meeting with the Contractor and GWA to discuss progress of work, contract requirements, and other issues related to the administration and prosecution of the work. The CM shall prepare meeting minutes for all progress meetings with contractors, sub-contractors, and GWA. The meeting minutes shall include action items from week to week until it has been completed.

### Task 1.2.10.3: As-Built Drawing Reviews.

After each weekly meeting, the CM shall review the Contractor's record drawings to ensure that they are current and capture any deviations from the original plan set.

### Task 1.2.10.4: Other Meetings.

Arrange meeting between the Contractor and GWA, and other parties such as GEPA and DPW as necessary to address project issues that require decisions that cannot be made by the CM or to resolve regulatory concerns.

#### Task 1.2.11: Request for Information.

Track all Requests for Information (RFI) and maintain an RFI log. Coordinate receipt of answers from other sources. Assist GWA with the development of a response to RFIs regarding any aspect of the contract documents.

### Task 1.2.12: General Compliance Monitoring.

The CM shall evaluate and ensure Contractor compliance with all local and federal labor laws applicable to the Project. Any violations shall be immediately reported to GWA. Compliance monitoring shall include but not be limited to the following:

#### Task 1.2.12.1: Regulations and laws.

Monitor compliance with Territorial and/or Federal laws, regulations and rules.

#### Task 1.2.12.2: Labor Laws.

Monitor contractor and subcontractor procedures to verify legal status of employees on site. Verify bi-weekly compliance with labor requirements for federally funded projects including posting of wage rate schedules at the job site and safety requirements.

#### Task 1.2.12.3: Licensure.

Confirm that the Contractor and its subcontractor and their workers have all required licenses and ensure that said licenses are valid throughout the term of the Contract.

#### Task 1.2.12.4: Permit Compliance.

# Exhibit C (9 of 16)

Monitor and track Contractor's compliance in obtaining required permit and approvals.

#### Task 1.2.12.5: Insurance.

Review Contractor's insurance documents submitted to GWA for compliance with Contract requirements. Track insurance documents, ensure insurance is valid throughout the term of Contract and maintain insurance certificate log.

#### Task 1.2.13: Claims and Disputes.

The CM shall promptly notify the GWA regarding any issues that arise during construction of the project that could result in claims and/or disputes. The CM shall provide the following services to assist GWA with the resolution of claims and disputes:

#### Task 1.2.13.1: Claim Records.

Maintain copies of all verbal and written communications, submittals, testimony, photos, and meetings regarding a potential dispute and promptly submit all originals to the Chief Engineer and Attorney for GWA.

### Task 1.2.13.2: Claims Reviews & Interpretations.

Review claims submitted by the Contractor, provide GWA with interpretation of contract drawings and specifications and provide written recommendations to GWA regarding the solution of the dispute. At the outset of the Contract, the CM shall work with the Contractor to provide pricing for equipment, material, personnel and other relevant considerations as specified in the bid. Prices agreed upon shall be used in any subsequent Change Order. No amounts shall be paid except for actual losses incurred by the Contractor through no fault of their own or for risks not allocated to the Contractor under the bid.

#### Task 1.2.13.3: Change Order Review.

Track all Change Orders (original to be provided to GWA) and maintain a Change Order Log. Provide change order evaluations, negotiations, and recommendations for approval by GWA. Change orders shall not be made when the Contractor has assumed such risk in the bid. Change Orders may include requests for additional payments for differing site conditions and the CM shall utilize the bid documents to determine if a Change Order is warranted. CM shall submit change order requests and supporting documentation to GWA for approval within 5 working days of receipt from the Contractor wherever practical.

#### Task 1.2.13.4: Design Changes.

# Exhibit C (10 of 16)

As directed by GWA, prepare changes to the Contract technical documents (drawings and specifications) required to address a change order. GWA will direct the CM to make design changes only when changes are deemed by the GWA Chief Engineer to have no material effect on the original intent of the design. All other design changes shall be forwarded to the Engineer of Record for processing.

### Task 1.2.13.5: Design Change/Verification Request (DCVR).

If the request for a change will materially change the original design, the CM shall coordinate with the design Engineer of Record to accomplish the necessary design changes. The CM shall prepare a DCVR for submission to and for the approval of the design engineer. If the required changes to the design are not covered within the original design scope of service, the CM will prepare a design scope amendment; solicit a fee proposal for the amendment on behalf of GWA, and assist with the negotiations with the Design Consultant.

### Task 1.2.13.6: Change Order Negotiation with Contractor.

Prepare independent cost estimates and negotiate with Contractor subject to GWA approval (final approval of negotiated change orders can only be made by the GWA General Manager).

#### Task 1.2.13.7: Change Order Documents.

The CM shall maintain copies for all approved change orders (originals to be provided to GWA) and insure that subsequent pay requests accurately represent these change orders. Approved change orders shall be administrated by the CM along with other work elements according to the provisions of this scope of work.

#### Task 1.2.14: Project Records & Document Management/Communication.

The CM shall maintain a project record in a clearly labelled/ tabbed set of 3-ring binders and electronic copies. The project records shall include all project correspondences, photos, daily logs, weekly reports, and other items required to document the construction process. Communicate and coordinate with all stakeholders during the construction phase. Notify GWA of any problems with the work or the Contractors.

# Task 1.2.15: Construction Observation, Special Inspection and Quality Control Monitoring.

The CM shall provide full time observation and special inspection services as needed of construction to ensure that the work is accomplished in accordance with the Contract documents. A full time Resident Engineer shall be assigned to manage both sites and will be at one of the sites during normal working hours unless attending project related meetings or during holidays, vacation or sick days. [This would apply if both project sites

# Exhibit C (11 of 16)

are active at the same time. If the projects are sequential, this requirement may be modified.]

#### Task 1.2.15.1: Onsite Observation.

The CM shall provide competent on-site field staff to observe the construction. The onsite field staff shall have demonstrable experience (satisfactory to GWA) relative to the discipline and type of work being performed. Project field staff shall review project documents, conduct daily observations, special inspections (where applicable), prepare and submit Daily Observation and Special Inspection Reports; communicate deficiency issues and resolve with Contractor; and update Non-Compliance Log. The Resident Engineer will determine which field staff will be onsite, at which times and for how long and will be supported by additional Special Inspectors as described below.

### Task 1.2.15.2: Special Inspections.

In addition to general compliance inspections, the CM shall provide Special Inspection services in accordance with IBC 2009, Chapter 17 by a person with demonstrable experience (satisfactory to GWA) related to concrete placement, structural welding, concrete anchoring, reinforcing steel placement, pre-stressing operations, grading, excavation, backfilling, foundation probing and injection, and other operations that require special inspections.

#### Task 1.2.16: Testing.

#### Task 1.2.16.1: Contractor Testing.

Schedule, observe, approve or reject, and document testing required to be performed by the Contractor.

#### Task 1.2.16.2: CM/CQA Testing.

The CM shall provide the following CQA testing to monitor the Contractor's or Owner's independent testing firm:

| SPECIAL TESTING   | STD.  | FREQUENCY  |
|---|---|--|
| Concrete Compression Tests It is assumed there will be approximately 20 concrete placement days and 1,200 cubic yards placed for 7 discreet locations: Pipe Encasements, Floor, Walls, Columns Footings, Columns, Roof, and Shotcrete placement | ASTM C-39   | 14 test cylinders, 2 each for 1 day of each of the 7 distinct locations (approx. 10% of Contractor's, assuming contractor will take 1 slump test per 40 cubic yards or 150 test cylinders tests. |
| Compaction grouting   | ASTM C-1019   | 10% of Contractor's  |
| Compaction testing  | ASTM D-698,<br>D-6938                                     | 10% of Contractor's  |
| Soil & Aggregate Analysis   | ASTM C-136,<br>C-117, C-40, D-<br>1140, D-1883,<br>D-4318 | 10% of Contractor's  |

# Exhibit C (12 of 16)

| All other required testing for contract |          |
|---|----------|
| conformance                             | <u> </u> |

#### Task 1.2.16.3: GWA Testing.

Coordinate and monitor testing required to be performed by GWA.

#### Task 1.2.16.4: Acceptance.

The CM shall promptly reject, orally, or in writing, any construction work that does not fully comply with Contract documents. Within 24 hours of notification to the Contractor that work elements have been rejected, the CM shall provide a written description of the deficiency to the GWA Chief Engineer for his/her concurrence. When concurrence has been obtained, the Contractor shall be directed to correct the work.

The CM shall promptly advise the GWA Project Manager or the GWA Chief Engineer if the Contractor fails to correct or remove the defective work.

The CM shall issue written stop work orders to the Contractor and immediately provide GWA with a copy for a portion of or the entire project for Contract non-compliance issues as follows:

- (1) If condition of work or Contractor actions threaten the health and safety of Contractor; s personnel, GWA representatives, or the public in such cases, stop work orders may be oral depending on the circumstances (with written stop work order to follow).
- (2) With prior notification and approval of the GWA Chief Engineer or Project Manager in all other cases.

#### Task 1.2.17. Construction Survey Services.

The CM shall conduct survey and field measurements as necessary to verify that the work is located according to the plans and specifications. Changes to the horizontal and vertical alignments and elevations shall be made only with the approval of the GWA Chief Engineer.

- a. Pipeline Alignments and Location of Structures: Spot check Contractor's construction staking to verify the pipeline alignments and structure locations are as called for on the plan and specifications and in order to insure that the work and is location within lawful and approved Rights-of-Way and easements.
- b. Elevations: Spot check with Contractor's elevations for foundations, pads, pipeline inverts, backfill thickness, manholes, and other structures for which vertical elevation is a critical design element.

# Exhibit C (13 of 16)

#### Task 1.2.18: Project Closeout.

#### Task 1.2.18.1 Punch List Development.

Throughout the construction of the project, prepare and maintain a list of defects and deficiencies in the work which must be corrected by the Contractor prior to final acceptance of the work. The list shall be provided to all members of the pre-final and final inspection team. The list shall be revised after inspections to reflect additional items identified during the inspection. Coordinate with the Contractor to ensure that all punch list items have been corrected. When all items have been completed, inform GWA in writing recommending that the work be accepted.

### Task 1.2.18.2: Project Closeout Inspections

Schedule, arrange, and conduct interim, pre-final, and final inspections of work with Contractor, GWA, GEPA, DPW, and other stakeholders in this project.

- (1) Preliminary Inspection: Preliminary inspections shall be arranged as necessary for specific work elements that require the certification and approval of other agencies.
- (2) Pre-Final Inspection: A pre-final inspection shall be conducted after substantial completion of the work.
- (3) Final Inspection: The final inspection shall be conducted after correction of pre-final inspection punch list items.

#### Task 1.2.19: Training and Warranty Periods.

#### Task 1.2.19.1 Training.

The CM shall coordinate with the Contractor to schedule and conduct startup training required by the Contract.

#### Task 1.2.19.2: Warranties.

The CM shall maintain a copy of warranties and compile associated Manufacturer and Contractor warranty documents. Warranty information shall be included in the final report. All original warranty documents shall be provided to GWA along with Lien Release Information from Contractor.

#### Task 1.2.20 Deliverables.

As described in each task,

# Exhibit C (14 of 16)

#### E. TASK 1.3. POST CONSTRUCTION SERVICES

#### Task 1.3.1: Final Report.

The CM shall prepare a final report after written acceptance of the work by GWA. The final report shall include a narrative documentation of all significant design and construction events and issues and shall become a historical record for the project. The following items shall be included in the appendix to the final report: Project Records: The project record described above shall become a part of and submitted along with the final report.

#### Task 1.3.2: Record Drawings.

After the conclusion of the project, the CM shall review and approve the official record drawings prepared by the contractor. It is anticipated that Record drawings shall be generated from the original digital design documents by incorporating all mark-ups on the Contractor's as-built drawings. Record drawings shall be marked and sealed by a professional engineer licensed on Guam in accordance with PEALS Regulations.

#### Task 1.3.3 Deliverables.

Two (2) hardcopies and electronic PDF files of the following:

- (1) CM Final Report
- (2) As-built Record Drawings (1 original and 1 copy for the hard copies);

#### F. CLARIFICATIONS.

- 1. Stop Work Orders: It is understood that the CM may issue written stop work orders to the Contractor in accordance with GWA policies for a portion of or the entire project for Contract non-compliance issues as follows:
  - a) If condition of work or Contractor actions threaten the health and safety of Contractor's personnel, GWA representatives, or the public in such cases, stop work orders may be oral depending on the circumstances (with written stop work order to follow).
  - b) With prior notification and approval of the GWA Chief Engineer or Project Manager in all other cases.
- 2. No formal Partnering Program will be provided, but the CM will incorporate partnering to the extent required to ensure a safe jobsite; ensure that environmental commitments are met; complete the project on time by resolving disputes quickly; finish within budget by proactively monitoring costs and facilitating creative

# Exhibit C (15 of 16)

- solutions when faced with potential cost increases; ensure that quality is met by adequate oversight by the Contractor.
- 3. An allowance of \$10,000 has been provided for the field survey verification.
- 4. An allowance of \$25,000 has been provided for CQA testing.
- CQA testing allowance may be used for field survey verification if the field survey verification allowance is expended. Field survey allowance may be used for CQA testing if the CQA testing allowance is expended.
- No project specific permitting services are included but the CM will assist the GWA, designer, and the Contractor as needed to help facilitate procurement of permits as expeditiously as possible.
- 7. No Archeological survey, Section 106 Historic Preservation, biological resource monitoring, Section 7 Endangered Species Act or related work is included. Archeological survey and monitoring shall be provided by GWA through a third party. The CM shall assist with coordination of onsite activities.
- 8. Any and all permit fees are excluded.
- The proposer will not be required to staff the project during adverse weather delays and can adjust staffing during the course of the project to properly manage the budget.
- 10. The Construction contract will include requirements that the Construction Contractor pay for overtime inspection outside of the normal 40 hour work week and this requirement will be strictly enforced and supported by GWA with payment coming out of the Contractor's Pay Request and then distributed to the proposer by GWA or by other acceptable terms to the proposer and GWA.
- 11. The CM services shall be provided for the duration of the project. It is assumed that 3 months will be for the pre-construction phase and 9 months for construction phase.
  - a) Design Phase: Work will commence with the Notice to Proceed for DB Contractor and shall correspond with the review periods specified in the contract requirements. It is anticipated that that the pre-construction (design phase) will be 3 months.
  - b) Construction Phase: Work will commence on the Notification of Construction Start date and continue throughout the performance period specified in the contract. It is assumed that the project will have a 9 month construction schedule. Full time inspection shall be provided at 2 sites for the duration of the construction period. The intent is for AM Orient to provide the equivalent of 9 months of full time inspection at both sites.

# Exhibit C (16 of 16)

- c) Post Construction Phase: The final report and in other post construction activities specified herein shall be completed within thirty (30) calendar after the project has been accepted by GWA in writing.
- 12. The Sr. Inspector will provide engineering services during the pre-construction phase, assume 3 months and Project Manager shall provide oversight during such period.
- 13. Resident engineer/project manager shall manage and oversee project equivalent to quarter of time during the construction period.
- 14. The contractor shall provide for field office complete furnishings, telephone, copying, and fax machine at no cost to the CM.
- 15. GWA's PMO shall attend and manage the Pre-design Conference, Interim DB review meeting (60%), Pre-final DB review meeting, and Final DB review meeting as well as coordinate between the Design Build Contractor Team, Construction Management Team, and GWA.
- 16. Laptop (2 each) and camera (2 each) will be turned over to GWA upon project completion. Laptop and camera shall be in good condition.

These specifications were approved by Martin Roush, P.E., GWA General Manager.



#### **GUAM CONSOLIDATED COMMISSION ON UTILITIES**

#### RESOLUTION NO. 28 - FY2015

RELATIVE TO MODIFICATION OF THE CONSTRUCTION MANAGEMENT SERVICES CONTRACT WITH AMORIENT FOR THE CHAOT AND AGANA HEIGHTS DESIGN/BUILD RESERVOIR REPLACEMENT PROJECT RELATIVE TO PARAGRAPH 28(C) OF THE NOVEMBER 2011 COURT ORDER

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, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA currently has a number of critical Court Order ("CO") projects including the Chaot and Agana Heights Design/Build Reservoir Replacement Project which is Item 28 (c) of the amended stipulated order; and

WHEREAS, Resolution No. 22 – FY2013 authorized total funding of Six Hundred Thirty Nine Thousand Three Hundred Sixteen Dollars and Ninety Cents (\$639,316.90) along with a twenty percent (20%) contingency to bring the total authorized funding amount to a maximum of Seven Hundred Sixty Seven Thousand One Hundred Eighty Dollars and Twenty Eight Cents (\$767,180.28) for the design review and construction management services; and

WHEREAS, GWA following CCU approval in Resolution 22 – FY2013, GWA contracted with AMOrient Engineering to provide design review and construction management services for the Chaot and Agana Heights Design/Build Reservoir Replacement project in the amount of Six Hundred Thirty Nine Thousand Three Hundred Sixteen Dollars and Ninety Cents (\$639,316.90); and

WHEREAS, the funding source will be Internal Funded CIP with PW 12-04 and PW 05-05 as alternate sources; and

WHEREAS, money received from the liquidated damages will be applied to funding sources used for the additional construction management work; and

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

- 1. The recitals set forth above hereby constitute the findings of the CCU; and
- 2. The CCU hereby authorizes the additional base contract amount of Four Hundred Sixty Eight Thousand Dollars (\$468,000.00) with an additional ten percent (10%) contingency of Forty Six Thousand Eight Hundred Dollars (\$46,800.00) for a total amount of Five Hundred Fourteen Thousand Eight Hundred Dollars (\$514,800.00) to fund the additional construction management cost for the project; and
- 3. The CCU hereby approves the total funding of One Million Two Hundred Eighty One Thousand Nine Hundred Eighty Dollars and Twenty Eight Cents (\$1,281,980.28) for Construction Management Services relative to the Contract between AMOrient and GWA; and
- Funding source will be Internal Funded CIP with PW 12-04 and PW 05-05 as alternate sources; and
- 5. Money received from the liquidated damages will be applied to funding sources used for the additional construction management work.

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

WHEREAS, GWA issued Change Order No. 1 to AMOrient Engineering for additional pre-construction management services that were required due to the general construction Contractor delay in starting construction. The total value of the Contract was increased to Seven Hundred Sixty Seven Thousand One Hundred Eighty Dollars and Twenty Eight Cents (\$767,180.28) and extended the services to October 17, 2014; and

WHEREAS, due to continued delay by the construction Contractor, the revised project construction completion date is projected to be August 31, 2015 (Exhibit A – Contractor's Schedule); and

WHEREAS, Section 4: Liquidated Damages of the Contract with the Contractor building the Chaot and Agana Heights water tanks allows for GWA to assess liquidated damages to the Contractor in the amount of Two Thousand Nine Hundred Dollars (\$2,900.00) per day (excluding Sundays and legal holidays) for breach of the Contract. GWA intends to assess liquidated damages to the construction Contractor in the amount of One Thousand Eight Hundred Dollars (\$1,800.00) for each unexcused working day starting October 18, 2014 until Final Completion to cover the additional cost related to construction management services due to the construction Contractor delays in completing the project on time; and

WHEREAS, in order to retain the construction management services to cover October 18, 2014 to August 31, 2015 which involves an additional 260 working days; not including 11 Government of Guam holidays and 46 Sundays that are not included in the Contract, an additional Four Hundred Sixty Eight Thousand Dollars (\$468,000.00) is needed to ensure that Construction Management Services are continuously provided for the project; and

WHEREAS, GWA Management is requesting authorization to increase the funding amount by Four Hundred Sixty Eight Thousand Dollars (\$468,000.00) with an additional ten percent (10%) contingency of Forty Six Thousand Eight Hundred Dollars (\$46,800.00) for a total contract amount of Five Hundred Fourteen Thousand Eight Hundred Dollars (\$514,800.00) to fund the additional construction management cost; and

|    | DULY AND REGULARLY ADOPTED, this 26th day of May 2015.   |
|----|--|
|    | Certified by: Attested by:   |
|    | JOSEPH T. DUENAS Chairperson  J. GEORGE BAMBA Secretary  |
|    | I, J. George Bamba, 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:  |
|    | NAYS:  |
|    | ABSTENTIONS: 0   |
|    | ABSENT:  |
| 11 |  |



"Better Water, Better Lives." Gloria B. Nelson Public Service Building | 688 Route 15 | Mangilao, Guam 96913 Tel: (671) 300-6846

#### Issues for Decision

#### Resolution 28-FY2015

Relative to Modification of the Construction Management Services for the PW 12-04 Chaot and Agana Heights Design/Build Reservoir Replacement Project; Court Order Paragraph 28(C)

### What is the project's objective? Is it necessary and urgent?

The objective of this modification is to increase the funding authorization for the project Construction Manager to cover CM services for the period of October 18, 2014 to August 31, 2015 (260 working days; not including 11 Government of Guam holidays and 46 Sundays). CM services are necessary as the CM oversees the construction activities on behalf of GWA thus to continue the concrete tank construction project requires a CM on board. The need for additional services is due to delays by the construction contractor.

#### Where is the location?

The Construction Management services are for the construction activities related to the Chaot 0.5 MG tank located in the village of Chalan Pago and the Agana Heights 0.5MG tank located in Agana Heights.

#### How much will it cost?

The modification to the CM services contract will increase the funding amount by Four Hundred Sixty Eight Thousand Dollars (\$468,000.00). With an additional ten percent (10%) contingency of Forty Six Thousand Eight Hundred Dollars (\$46,800.00), the total funding amount will be Five Hundred Fourteen Thousand Eight Hundred Dollars (\$514,800.00).

#### When will it be completed?

The CM service is anticipated to be completed at the same time all construction activities are completed or by <u>August 31, 2015</u>. See Exhibit A as part of the resolution.

#### What is its funding source?

The funding source will be Internal Funded CIP with PW 12-04 and PW 05-05 as alternate sources. It should be noted that GWA intends to assess Liquidated Damages to the construction contractor from which funds related to the LD will reimburse the funding source uses.

| Chaot & Agana Hts Reservoir Replacement U;  Preconstruction Activities  Submittal Activities  G0236 I Govt Review - Intel Construction Schodus Submittal  G0237 Govt Review - Design Quality Control Plan Submittal  G0238 Lead Asternatis Submittal  G0238 Govt Review - Lead Asternatis Submittal  G0240 Govt Review - Lead Asternatis Submittal  G0240 Govt Review - Environmental Protection Plan Submittal  G0241 Govt Review - Environmental Protection Plan Submittal  G0241 Govt Review - Activity Heaze Analysis Submittal  G0241 Govt Review - Activity Heaze Analysis Submittal  G0241 Govt Review - Activity Heaze Analysis Submittal  G0241 Govt Review - Linet Accessories Submittal  G0241 Govt Review - Under Tent Recessories Submittal  G0241 Govt Review - Under Tent Repeaffitings Submittal  G0241 Govt Review - Under Tent Repeaffitings Submittal  G0241 Govt Review - Under Tent Repeaffitings Submittal  G0254 Govt Review - Under Tent Repeaffitings Submittal  G0254 Govt Review - Booter Pumps Submittal  G0254 Govt Review - Booter Pumps Submittal  G0254 Govt Review - Booter Pumps Submittal | 183             | £ 3       | Complete SPERIN 28-America A 31-Aug | Augests     | Float Sep         | to        | 14   |  | Otr 1, 2015<br>Feb | Mar          | Apr Otr:                     | Qtr 2, 2015  | THE STATE OF    | 2 2015          |
|--|-----------------|-----------|-------------------------------------|-------------|-------------------|-----------|--|--|--------------------|--------------|------------------------------|--|-----------------|-----------------|
| Chaot & Agana Hts Reservoir Replacement Up Preconstruction Activities  Design Activities  G0238.1 Govt Review - Intel Core tructen Schedule Submittel G0238.1 Govt Review - Design Qualty Control Plan Submittel G0238.1 Govt Review - Design Qualty Control Plan Submittel G0238.1 Govt Review - Lead Abeternent Submittel G0238.1 Govt Review - Lead Abeternent Submittel G0240.1 Govt Review - Environmental Protection Plan Submittel G0241.1 Govt Review - Environmental Protection Plan Submittel G0241.1 Govt Review - Enrich Analysis Submittel G0245.1 Govt Review - Enrich Accessories Submittel G0247.1 Govt Review - Under Trait Repeaterings Submittel G0247.1 Govt Review - Under Trait Repeaterings Submittel G0248.1 Govt Review - Under Trait Repeaterings Submittel G0248.1 Govt Review - Bocate Planys Submittel G0258.1 Govt Review - Bocate Planys Submittel G0259.1 Govt Review - Bocate Planys Submittel G0250.1 Govt Review - Bocate Planys Submittel G0250.1 Govt Review - Bocate Planys Submittel  |                 |           | 28-43r-13A                          | 51,000      |                   |           | -  | The state of the s | Feb                | Mar          |                              |  |                 | Į               |
| Chaot & Agana His Reservoir Replacement Up Preconstruction Activities Submittal Activities G0236. G0236. G0237 Govt Review - Unide Construction Schedule Submittal G0237 Govt Review - Unide Construction Schedule Submittal G0238. Govt Review - Lead Absterment Submittal G0238. Lead Absterment Submittal G0238. Lead Absterment Submittal G0238. Ewironmental Protection Plan Submittal G0240. Govt Review - Environmental Protection Plan Submittal G0241. Govt Review - Environmental Protection Plan Submittal G0241. Govt Review - Environmental Protection Plan Submittal G0241. Govt Review - Trank Accessories Submittal G0241. Govt Review - Trank Accessories Submittal G0241. Govt Review - Under Trank Proper Fittings Submittal G0241. Govt Review - Under Trank Proper Fittings Submittal G0241. Govt Review - Under Trank Proper Submittal G0248. Govt Review - Valves and Flow Meters Submittal G0248. G024 Review - Bocater Promps Submittal G0256. G027 Review - Bocater Promps Submittal G0256. G027 Review - Bocater Promps Submittal G0258.  |                 | 0 0 0 0 0 | 28-25rr 13-4                        |             |                   |           | Nov Dec  | E 1  |                    |              |                              | May Jun  | 314             | Aug             |
| Preconstruction Activities  Submittal Activities  G0238  G0238  Initial Corat Luction Schedule Submittel G0231  G027 Review - Unial Coratro Plan Submittel G0231  G024 Govt Review - Design Quality Control Plan Submittel G0231  Govt Review - Lead Abetiment Submittel G0234  Govt Review - Lead Abetiment Submittel G0240  Environmental Probection Plan Submittel G0241  Govt Review - Environmental Protection Plan Submittel G0241  Govt Review - Environmental Protection Plan Submittel G0241  Govt Review - Lead Abetiment Submittel G0241  Govt Review - Lank Accessories Submittel G0241  Govt Review - Lank Accessories Submittel G0241  Under tank Popes Filtings Submittel G0241  Govt Review - Under Trank Pepes Filtings Submittel G0241  Govt Review - Under Trank Pepes Filtings Submittel G0241  Govt Review - Under Trank Pepes Filtings Submittel G0241  Govt Review - Londer Trank Pepes Filtings Submittel G0254  Govt Review - Bocster Pumps Submittel        |                 | 0 0 0 0 0 | A C                                 |             | 0                 |           |  |  |                    |              |                              | ł  |                 | 1               |
| Submittal Activities  G0238   Initial Corat bucton Schedule Submittel G0231   Govt Review - Inial Corat bucton Schedule Subm G0221   Govt Review - Dealgn Quality Control Plan Submittel G0221   Govt Review - Dealgn Quality Control Plan Submittel G0228   Govt Review - Lead Abetement Submittel G0224   Govt Review - Lead Abetement Submittel G0240   Govt Review - Lead Abetement Submittel G0241   Govt Review - Activity Hazzerd Arrelysis Submittel G0241   Govt Review - Activity Hazzerd Arrelysis Submittel G0241   Govt Review - Link Accessories Submittel G0241   Govt Review - Under Trink Peper Fithigs Submittel G0241   Govt Review - Under Trink Repeatings Submittel G0241   Govt Review - Valves and Flow Meters Submittel G0254   Govt Review - Bocater Pumps Submittel G0254   Govt Review - Bocater Pumps Submittel G0254   Govt Review - Bocater Pumps Submittel  |                 | 8 6 6 6 6 | 24-Apr-13A                          | 11-Apr-14 A |                   |           |  |  |                    |              | •••                          |  |                 |                 |
| Submittal Activities G0238 Initial Construction Schedule Submittel G0231 G027 Design Cussive - Initial Construction Schedule Submittel G0231 G027 Con't Review - Lesign Quality Control Plan Submittel G0238 G0238 G027 Gov't Review - Lesign Quality Control Plan Submittel G0238 G0240 Gov't Review - Lead Abstement Submittel G0240 Gov't Review - Lead Abstement Submittel G0241 Gov't Review - Leink Accessories Submittel G0241 Gov't Review - Under Trait Reposerotes Submittel G0254 Gov't Review - Bocater Pumps Submittel   |                 | 0000      | 40 Apr 42 A                         | 04 C-1 44 6 |                   |           |  |  | ***                |              |                              |  |                 |                 |
| SUDDIMICAL ACTIVITIES  GOZ28  GOAT Borley nital Construction Schedule Submitted GOZ28 (10-v1 Review - Infall Construction Schedule Submitted GOZ27 (20-v1 Review - Dasign Quality Control Plan Submitted GOZ28 (20-v1 Review - Dasign Quality Control Plan Submitted GOZ28 (20-v1 Review - Lead Abstement Submitted GOZ40 (20-v1 Review - Lead Abstement Submitted GOZ40 (20-v1 Review - Environmental Protection Plan Sub GOZ41 (20-v1 Review - Environmental Protection Plan Submitted GOZ41 (20-v1 Review - Environmental Protection Plan Submitted GOZ41 (20-v1 Review - Lethy I Hazzard Analysis Submitted GOZ41 (20-v1 Review - Under Tark Pleas Submitted GOZ41 (20-v1 Review - Under Tark Pleas Filtings Submitted GOZ41 (20-v1 Review - Under Tark Pleas Filtings Submitted GOZ48 (20-v1 Review - Valves and Flow Meters Submitted GOZ48 (20-v1 Review - Valves and Flow Meters Submitted GOZ50 (20-v1 Review - Booster Plungs Submitted GOZ50 (20-v1 Review - Booster Plungs Submitted GOZ54 (20-v1 Review - Booster Plungs Submitted GOZ54 (20-v1 Review - Booster Plungs Submitted                               |                 | 000       |                                     | 7 85-14 Y   |                   |           |  |  |                    | ••••         |                              |  |                 |                 |
|  |                 | 0 0 0     |                                     | 13-Mar-15A  |                   |           |  |  |                    | 13-Mer       | r-15 A, Submittal Activities | ctivities  |                 |                 |
|  |                 | 0 0       |                                     | 20-May-13A  |                   |           |  |  |                    | -            |                              |  |                 |                 |
|  |                 | 0         | 100% 21-May-13A 21-I                | 21-May-13A  |                   |           |  |  |                    | -            |                              |  |                 | -               |
|  |                 | 20003     | 100% 18-Apr-13A 08-                 | 08-Aug-13A  |                   |           |  |  |                    |              |                              |  |                 |                 |
|  |                 | 0         | 100% 08-Aug-13A 08-                 | 08-Aug-13A  |                   | ••••      |  |  |                    | ***          |                              |  |                 |                 |
|  |                 | 0         | 100% 04-May-13A 31-I                | 31-May-13A  | -                 |           |  |  |                    | -            |                              |  |                 |                 |
|  |                 | 0         | 100% 31-May-13 A 20-1               | 20-Aug-13A  |                   |           |  |  | ***                |              |                              |  |                 |                 |
|  |                 | 0         |                                     | 31-May-13A  |                   |           |  | -  | +                  | 1            |                              |  | -               |                 |
|  |                 | 0         |                                     | 16-Jul-13.A |                   | ****      |  |  | •••                |              | ••••                         |  |                 |                 |
|  | 4 7 8 8 4 8 4 8 | 0         | 21-May-13A                          | Asy-13A     |                   |           |  |  | • • • •            |              |                              |  |                 |                 |
|  | r 8 a 4 a 4 a   | 0         | 100% 22-May-13 A 06-                | 06-Jun-13A  |                   |           |  |  |                    | ****         |                              |  |                 |                 |
|  | 8 c 4 c 4 c     | 0         |                                     | 08-Apr-14A  |                   |           |  |  |                    | -            |                              |  |                 |                 |
|  | m 2 m 2 m       | 0         | 100% 09-Apr-14A 18-J                | 18-Apr-14A  |                   |           |  | -  |                    | -            |                              |  |                 | -               |
|  | Z 00 Z 00       | 0         | 100% 07-Jun-13A 19-Dec-13A          | Jec-13A     | The second second |           |  |  |                    | ***          |                              |  |                 |                 |
|  | a 4 a           | 0         | 100% 19-Dec-13A 24-[                | 24-Dec-13A  |                   |           |  |  | ****               |              | ****                         |  |                 |                 |
|  | 4 80            | 0         | 100% 07-Jun-13A 05-Mar-14A          | Aar-14A     | I                 |           |  |  |                    |              |                              |  |                 |                 |
| _  | 60              | 0         | 100% 11-Mar-14 A 18-J               | 18-Mar-14A  |                   |           |  |  |                    |              |                              |  | [               |                 |
| -  |                 | 0         | 100% 28-Mar-13A 10-                 | 10-Jun-14A  |                   |           |  |  |                    | -            |                              |  |                 |                 |
|  | 14              | 0         | 100% 11-Jun-14 A 07-0               | 07-Oct-14A  | Showing and a     | GovTR     | Gov'l Review - Booster Pumps Submittel   | bmittal  |                    |              |                              |  |                 |                 |
|  | 15              | 0         | -                                   | 04-Mar-15A  |                   | 1         |  |  |                    | Generator Se | ets Submidal                 |  |                 |                 |
| G0254.1 Gov't Review - Generator Sets Submittal  | 14              | 0         | 100% 06-Mar-15A 13-Mar-15A          | Aar-15A     |                   |           |  |  | C.                 | Ť            | view - Geherato              | wiew - Geberator Sets Submittal  |                 |                 |
| G0256 Bearing Pads Submittel   | 15              |           | 100% 07-Jun-13A 18-N                | 18-Mar-14A  | -                 |           |  |  |                    | _            |                              |  |                 |                 |
| G0256.1 Gov't Review - Bearing Pads Submittal  | 4               | 0         | 100% 19-Mar-14 A 18-A               | 18-Apr-14A  |                   |           |  |  |                    | -            |                              |  |                 | +               |
| Procurement Activities   | 438             | 28        | 0% 25-Oct-13A 22-Jul-15             | u-15        | 28                | -         |  | SPECIAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN 1   |                    | İ            | -                            | Manufacture of the Control of the Co |                 | 22-Jul-15, Proc |
| M0325 Tank Accessories   | 88              | 0         | 100% 21-Apr-14 A 31-Jul-14 A        | u-14A       | ories             |           |  |  |                    |              |                              |  |                 |                 |
| M0331 Under tank Pipes/Fittings  | 9               | 0         | 100% 25-Oct-13A 27-D                | 27-Dec-13 A |                   |           |  |  | -                  | -            |                              |  |                 |                 |
|  | 8               | 0         | 100% 27-Feb-14 A 06-J               | 06-Jun-14A  |                   | 1000      |  |  |                    |              | ***                          |  | F               |                 |
|  | 28              |           | 100% 08-Oct-14A 07-Jan-15A          | an-15A      |                   | ļ         |  | Booster Pumps  | SCIL               |              |                              |  |                 |                 |
|  | 130             |           |                                     | 22-Jul-15   | 28                |           |  |  | <b>-</b>           |              |                              |  | 0000 cas co cas | Generator Sets  |
| M0481 Bearing Pads   | -               |           |                                     | 23-Apr-14A  |                   |           |  |  |                    |              |                              |  | _               |                 |
| Construction Activities  | 288             | 100 51    | 51.24% 19-Aug-13.A 20-A             | 20-Aug-15   | 7                 |           |  |  |                    | ŧ            |                              |  | ŧ               | ŀ               |
| Chaot  | 809             | 48 82     | 82.07% 19-Aug-13.A 04-J             | 04-Jun-15   | 62                |           | The same of the last of the la |  | ł                  | ŧ            | -                            | 1 04-44  | n-16. Chade     |                 |
| Access Road  | 593             | 0         | 100%   19-Aug-13A   73-J            | 117-144     |                   |           |  |  |                    | -            |                              |  | -               |                 |
| CH1000 CH Mobilization   | 3               | 0         | 100% 19-Aug-13A 23-J                | 23-Jan-14 A | Г                 |           |  |  | ***                |              |                              |  |                 |                 |
| CH1010 CH Clearing   | e               | 0         | 100% 26-Aug-13 A 27-A               | 27-Aug-13A  |                   |           |  |  |                    | ****         |                              |  |                 |                 |
| CH1020 CH Backfill with Pit Run  | e               | 0         | 100% 30-Aug-13 A 05-S               | 05-Sep-13A  |                   |           |  |  | - 4 - 4            |              | ***                          |  |                 |                 |
| CH1030 CH Grading and Compaction   | 2               | 0         | 100% 06-Sep-13A 12-Sep-13A          | ep-13.A     |                   |           |  |  |                    |              |                              |  |                 |                 |
|  | 102:            |           | 100%   19 Aug 13A   21 Feb-14A      | eo-14.4     |                   |           |  |  |                    |              |                              |  |                 |                 |
|  | ıo I            |           | 100% 19-Aug-13A 24-4                | Mg-13A      | T                 |           |  |  |                    |              |                              |  |                 |                 |
| -  | 9               |           | 05-Sep-13A                          | ep-13A      |                   |           |  |  | ••••               |              |                              |  |                 |                 |
|  | 4               |           | 100% 26-Nov-13 A 27-N               | 27-Nov-13A  |                   |           |  |  |                    |              |                              |  |                 |                 |
| CH1070 CH Demolsh Existing Pipes and Valves  | 4               | 0         | 100% 05-Sep-13A 21-Feb-14A          | eb-14A      |                   |           |  |  |                    |              |                              |  | -               |                 |
| Site Works   | 86              | lo l      | 100%   01-Oct-13A   06-1            | are list.   |                   |           |  |  | -                  |              |                              |  |                 |                 |
| Actual Work Critical Remaining Work  | W Summary       |           |                                     |             |                   | Page 1 of | 4  | TASK filter: All Activities  | 83                 |              |                              |  |                 |                 |
| Remaining Work   |                 |           |                                     |             | _                 |           |  |  |                    |              |                              |  |                 | 200             |

| Octoorable bank of the control of    |               |  | Duration Print |                          |              | 1  | #103.F DD  | Ot 1 2015   | DF 7 20            |                       | 2000         |
|--|---------------|--|----------------|--------------------------|--------------|--|--|---|--------------------|-----------------------|--------------|
| Characteristics   Characteri   | Cildo         |  |                | 3                        |              |  | Oct Nov  | Feb   | T                  | 1                     |              |
| Otherwise and Endows   Security   Checker      | 5             | 7  |                |                          | 27-Nov-13A   |  | -  |   | -                  | ame .                 | 200          |
| Or Florente de Carte  | CHIC          | 771  |                | 100% 01-Oct-13 A         | 19-Nov-13.A  |  |  |   |                    |                       |              |
| 10   Cit county   County   Cit county   Ci   | CH2C          |  |                | 100% 12-Dec-13A          | 17-Mar-14 A  | - manual or  |  |   | ***                |                       |              |
| Continued   Cont   | CH20          |  |                | 100% 26.May-14 A         | 15 Ame 14 A  | -  |  |   |                    |                       |              |
| Other control between the control between th   | CHO           |  | -              | 4000 00 15               |              | 1  |  |   |                    |                       |              |
| Otherwise Well From   Content and Medical Content and Co   | Pre-Stre      |  |                | R                        | De-Jun-14A   |  |  |   |                    |                       |              |
| Cit Hardway Wall Fromton Cit Hardway Bases   2   0   0000 Gl-bid M. Zabid   | CHZC          | 1  |                | 17-Jun-14A               | 30-100-14A   | /3   |  |   |                    | Pre-Stress            | d Tank       |
| Charles Convenient   Charles   | CHS           | -  |                |                          | 26 Int. 14 A | No. I Com  |  |   |                    |                       |              |
| Other Coverage   1   0   0   0   2   2   2   2   2   2   2   | CH20          | -  |                | 100% 28-1td-14 A         | 28 lutta     | TO SEE LEE   | 92   |   |                    |                       |              |
| Other Community   Chapter   Chapte   | CHZO          |  |                |                          | 28 Int 14 A  | ii Dealing   | Land   |   |                    |                       |              |
| Of Historic consists         0 (100) (150-0)                                   | CH20          |  |                |                          | 20-20-14 A   | th IDM   |  |   |                    |                       |              |
| Other December of the Percentage of the Percen   | CH20          | 1  |                |                          | 12-Am-14-A   | Orewall  | 7,4  |   |                    |                       |              |
| Of Heavening and Character and No. 10 (2009)         Chickel A. In Control A. In Chickel A. In C                                 | СНЗО          | 1  |                | -                        | 20-Air-14 A  | Maron II   | 10 mm  |   |                    |                       |              |
| Otherwise and Parison   Control Royal   Cont   | CH30          | -  |                | 100% 21-Aug-14 A         | 30-Aug-14 A  | S H  | The state of the s |   |                    |                       |              |
| Otherwise and Page 10   100% 10      | CH30.         |  |                | 100% 02-Sep-14.A         | 02-Sep-14A   | to Ho  | The Man Tendor Inch Doc Other  |   |                    |                       |              |
| All Controls of Controls Con   | СНЗО          |  |                |                          | 11-Sep-14 A  | To the state of th | Reinforce and Hour Roof  |   |                    |                       |              |
| Of Hermann Rock Storyth         Of Hommann Roc   | CH30          |  |                |                          | 19-Sep-14A   | 1  | CH Cure Roof   |   |                    |                       |              |
| Otherwise Mobile Mobi   | CH30          |  |                | 100% 13-Oct-14A          | 17-Oct-14A   | <u> </u>   | CH Dismants Roof Swering   |   |                    |                       |              |
| Otherwise Bears   Control School   Con   | CH30          |  |                | 100% 12-Sep-14A          | 22-Sep-14 A  | 3  | P.   |   |                    |                       |              |
| Oth Half May Writehold   Oth Writehold   Oth May Writehold   Oth May Writehold   Oth Writeho   | CHO           |  |                | 100% 30-Sep-14A          | 01-Oct-14A   |  | CH Abrasive Blast  |   |                    |                       | 1            |
| Of Heater Statement Cover         3         0         100%, 20-0c14A         Ochocined Cover         Coli Patriciael Cover         Col Patriciael Cover         Col Patriciael Cover         Col Pat   | CH40          |  |                | 100% 02-Oct-14A          | 08-Oct-14A   | 1  | CH 1st Saver Wraponio  |   |                    |                       |              |
| Other Participation   Color Market   | CH40          |  |                |                          | 05-Nov-14 A  | _  | CH Photorets Cover   |   |                    |                       | ****         |
| Other Bulkers   Control Bulk   | CH40          | -  |                |                          | 21-Nov-14 A  | T  | CHDenthose   |   |                    |                       |              |
| Or Hunder Teach Counting         2         100% (B-Mayr-15 Argan)  | CH40          |  |                |                          | 24-Apr-15    | 88   |  |   |                    |                       | ,            |
| OH Flatework Castleges   7   7   7   0% (a-May-15)   7   7   0% (a-May-15)   8   8   9   9   9   9   9   9   9   9   | CH40          | -  |                |                          | 02-Apr-15    | 101  |  |   | H                  | MINDS                 | 1            |
| Of CHE Reservoire of CHE Reservoire Characteristics         2         2         0.9         27-Apr-15         28-Apr-15         68         69         CHE Reservoire Characteristics         CHE Reservoire Characteri   | CH40          | -  |                |                          | 18-May-15    | 75   |  |   |                    | Daniel H.             |              |
| Other   Parameter   Character   Characte   | CH40          | 1  |                | 27-Apr-15                | 28-Apr-15    | 89   |  |   |                    |                       |              |
| CH Leterwiden for Ultransf Tests   S   | CHADE         |  |                | T                        | 01-May-15    | 89   |  | • • • • •   |                    | action.               | ***          |
| CH   Executation for Ultry out of Pipers   CH   CH   CH   CH   CH   CH   CH   C  | CH408         |  |                |                          | 37-May-15    | 89   |  |   | 1                  | ask Toet              |              |
| CH Install Meter and Valve Value and Filtry  | Yard Plot     |  |                | 37 05%   16-Dec-13.4   ( | 24-Jun-15    | 29   |  |   |                    |                       | Project Work |
| CH Flowmenter Character    | CONTRACTOR    |  |                | 100% 16-Dec-13A          | 24-Feb-14.A  |  |  |   |                    |                       |              |
| CH Richard Each Formwork Video Leg   100%    | CHEO          | Or bringing Mount of the Installation  |                | 100% 18-Dec-13A          | 76-Mar-14 A  |  |  |   |                    |                       | • • • •      |
| O CH Varies Outlook Pour Contrated Out Values         O CH To Replace Pour Contrated Outlook Augusts         T 2000 CH To Replace Pour Contrated Outlook Augusts         T 2 CH Connect to Excling Watermanh         T 3 CH Connect to Excling Watermanh         T 4 CH Connect to Excling   | CHENS         | T  |                | 100% 16-Dec-14A          | 76-Apr-15    | 75   | ļ  | A THE PROPERTY OF THE PROPERTY OF THE PARTY | CH hatel Meter and | d Valve Valetts No. I |              |
| 6 CH Valves and Fittings         10 CH Water Oldage #1 Noticeach Only (Laber-14 A 2-Lan-14 A 2-Lan-1                                 | CHEO3         | 7  |                |                          | 98-Apr-15    | 72   |  |   | *                  | K Outer Val           | n n          |
| 5. CH Connect to Existing Watermann         10.03, 14-Jan 14 A         22-Leb-14 A   | CH504         | 1  |                | U% U8-Apr-15             | 6-Apr-15     | 72   |  |   | CH Te Rebar,       | eta Gulet             | aults        |
| 0 CH Valvea and Filtings         12         12         03         12-App-15         72         72           0 CH Flowmeler         3         12         12         12         12         12         12         12         14-App-15         72         14-App-15         74         14-App-15         74-App-15         74         14-App-15  | CHSO4         | 1  |                | 100% 14-J8h-14A          | 4-Jan-14A    |  |  |   |                    |                       |              |
| O CH Flowmenter         3         3         3         4 Appril         7 Z           0 CH Chermeter         3         3         3         4 Appril         7 Z           0 CH SCADA Petring         6         6         0 VS CS-May-15         7 Appril         7 Appril           0 CH SCADA Programming         4         4         0 VS CS-May-15         0 Abhr-15         7 Appril           0 CH SCADA Programming         4         4         0 VS CS-May-15         0 Abhr-15         7 Appril           0 CH SCADA Programming         4         4         0 VS CS-May-15         0 Abhr-15         7 Appril           0 CH SCADA Programming         4         4         0 VS CS-May-15         0 Abhr-15         7 Appril           0 CH SCADA Programming         4         4         0 VS CS-May-15         0 Abhr-15         7 Appril           0 CH Piping Leak Test         1         1         0 VS CS-May-15         7 Appr-15         7 Appr-15           0 CH Backfilling         3         3         0 VS CS-May-15         7 Appr-15         7 Appr-15   | CHSOS         | 1  |                | 100% 12-F-60-14.A        | Z-Feb-14A    |  |  |   |                    |                       |              |
| 0 CHORbination System         5 0 0 28-Apr-15 0 AMey-15 74         72           0 CH SCADA Piping         2 2 0 0 0 10 May-15 74         74           0 CH SCADA Piping         2 2 0 0 0 10 May-15 74         74           0 CH SCADA Piping         4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | CH508         | -  |                |                          | 7-Apr-15     | 72   |  |   | CH Valves          | and Fittings          |              |
| 0 CH SCADA Piging         2         2         0 M starter of the starter of  | CH507         | T  |                | 7                        | r-Apr-15     | 72   |  |   | CH Flowm           | eter                  |              |
| 0 CH SCADAHoloted-up         4         4         4         6         CH SCADAHoloted-up         7.4           0 CH SCADAHoloted-up         4         4         4         6         0.5         0.4-un-15         5.9           0 CH Disinfockion of Pipes and Valves         2         2         0.95         20-Apr-15         5.9           0 CH Piping Leak Test         1         1         0.5         28-Apr-15         2.2         0.4-un-15         8.9           0 CH Backriffing         3         3         0.95         28-Apr-15         7.2         0.05         0.05           1 In 10         0.95         28-Apr-15         0.1-May-15         7.2         0.05 </td <td>CH508(</td> <td>1</td> <td></td> <td></td> <td>A March</td> <td>2 1</td> <td></td> <td></td> <td>SHOP CHOP</td> <td>orination System</td> <td></td>   | CH508(        | 1  |                |                          | A March      | 2 1  |  |   | SHOP CHOP          | orination System      |              |
| 0 CHSCADA Programming 4 4 0% Church's 69 0 CH Bishfinds for of Pipes and Valves 2 2 0% 28-Apr-15 28-Apr-15 88 0 CH Backfilling Leaf Test 1 0% 28-Apr-15 72 0 CH Backfilling 3 3 0% 28-Apr-15 72  | CHSOS         | 1  |                | OF May 15                | 4-May-13     | 4  |  |   | CHSCH              | DAPping               | ••••         |
| 0 CH Disinfection of Ptpess and Valves 2 2 0% 20-April 5 39 0 CH Blackfilling Leak Test 1 1 0% 20-April 5 72 0 CH Blackfilling Leak Test 3 0% 20-April 5 72  | CH600         | 1  |                | 04- lun-15*              | d lun 46     | 4 0  |  |   | OH SC              |                       |              |
| 0 CH Backfilling 3 3 0% 28-Apr-15 72 CH Backfilling 3 3 0% 28-Apr-15 72 CH B 11 0% 28-Apr-15 72 CH B 1 | CH6010        | 1  |                | 28 Ang. 15               | G Ame 15     | ח מ  |  |   |                    | SCAUA PR              | amming       |
| 0 CHBackfilling 3 3 0% 28-Apr-15 CH-May-15 72  | CH602         |  |                | 28-Apr-15                | 8-Apr-15     |  |  |   | CH Disime          | Des sur Asi           | 8            |
| 13   | CHB03(        | -  |                | 29-Apr-15                | 1-May-15     | 72   |  |   | Daniel S           | Leax lest             |              |
|  | Civil Work    | 13.50  | III WAR        |                          | 2-149-15     | .68  |  |   |                    | ▼ 22-May-18, CM Works | -            |
| STATE OF THE PERSON NAMED IN   | Andread March | The state of the s |                |                          |              |  |  |   |                    |                       | 1            |
| Datable Mark A Attachment  |               |  |                |                          |              | -  |  |   |                    |                       |              |

| Activity ID   | Activity Name                                      | Original Rema     | meno! Sch | artitle % Cont  | Embh          | Total |                         | OF 4 2014  |                                  | 2000       |              | 2 10                |                     |                         |
|---------------|--|-------------------|-----------|---|---------------|-------|-------------------------|--|----------------------------------|------------|--------------|---------------------|---------------------|-------------------------|
|               |  | Duration Duration |           |   |               | Float | 100                     | Nov Dec  | -                                | East Colls |              | 5                   | L                   | Otr 3, 2015             |
| CH            | CH6040 CH Tank Perimeter Base Course               | 9                 | 9         | 0% 08-May-15  | 15-May-15     | 89    |                         | +  |                                  | -          |              | West and            | 14 Took Dodnostel B | July Aug                |
| E.            | CH6050 CH Fencing and Gates                        | 9                 | 9         | 0% 14-May-15  | 21-May-15     | 69    |                         |  |                                  |            |              |                     | CO Concing on       | Course                  |
| ਤੋਂ           | CH6060 CH A/C Paving                               | 4                 | 4         | 0% 19-May-15  | 22-May-15     | 68    |                         |  |                                  |            | -            | ] <b>?</b>          | CHA/C Paying        |                         |
| Agana Heights | Heights  | 564               | 103       | 24 92% ZB-Aug-13 A  | 1 20-Aug-15   | 7     | STATE OF TAXABLE PARTY. | distance of the latest | understand the second            | 1          | +            |                     |                     |                         |
| Бето          |  | 205               | 10        | 100% 78-409-13.   |               | CS    |                         |  |                                  |            |              |                     |                     |                         |
| AG            | 7  | NO.               | 0         | 100% 28-Aug-13A   | A 23-Jan-14A  |       | •••                     |  |                                  |            |              | ••••                |                     |                         |
| AG            |  | 5                 | 0         | 100% 29-Aug-13 A  |               |       |                         |  |                                  |            |              |                     |                     |                         |
| AG            | -  | 9                 | 0         | 100% 03-Oct-13A   | 1 28-Oct-13A  |       |                         |  |                                  |            |              |                     |                     |                         |
| AG            |  | 5                 | 0         | 100% 01-Nov-13A 03-Mar-14A  | A 03-Mar-14 A |       | ***                     |  |                                  |            |              | ****                |                     |                         |
| AG            | T  | 9                 | 0         | 100% 04-Mar-14A 15-Mar-14A  | 15-Mar-14A    |       | ****                    |  |                                  |            |              |                     |                     |                         |
| AG.           | AG1050 AG Demolish existing walls                  | 9                 | 0         |   | 1 24-Jun-14 A |       |                         |  |                                  |            |              | ***                 |                     | ••••                    |
| AG 1060       | AG1060 AG SurveyLevout                             | 203               | 0 0       | 100%   03-1/ap 1. A   30-Disc 1. A   100%   17-Mac 14 A   16-Arc 14 A | 18-0-0-c-14-A |       |                         |  | 30-Dec-14 A, Site Works          | Site Works | -            |                     |                     |                         |
| AG            | AG1070 AG Excavate existing tank sub-base (Hazmat) | -                 | 0         | 100% 03-Mar-14A   | 23-Anc. 14.A  |       |                         |  |                                  |            |              |                     |                     |                         |
| AG            | AG1080 AG Prepare and backfill new sub-base        |                   | 0         | 100% 24-Jun-14A   |               |       |                         | AG Prepare   | Pepare and backfill new sub-base | and-base   | -            |                     |                     |                         |
| AG            | AG1090 AG Prepare and Backfil base course          | 3                 | 0         | 100% 25-Nov-14 A  |               |       |                         |  | AG Prepare and                   |            | base course  | ****                | ***                 |                         |
| Pre-Si        | Pre-Stressed Tank AG2000 AG Flow and Well Ecotors  | 101               | 08        | 15 86% 17-Feb 15A   | 20-304:5      | 30    |                         |  |                                  |            |              |                     |                     | 20-Jul-15.              |
| AG            | 1  | 13                | 2 4       | 0% 18 Mar 15 A  | 18-Ame-15     | 7     |                         |  |                                  |            | AG FIGHT BIT | -                   | ;                   |                         |
| AG:           | 7  | *                 | 2 0       | 0% 31-Mar-15  |               |       |                         |  |                                  |            |              | AG ASSEMDS          | imbe wai toms       |                         |
| AG.           | 1  | -                 | , -       | 0% 17-Apr-15  | 17-Anr-15     | 7     |                         |  |                                  |            |              | AG Boar Coreum #1   | g Fads              |                         |
| AG            | AG2040 AG Pour Corewall #2                         | ø                 | 9         |   | 27-Apr-15     | 2     |                         |  |                                  |            |              | AG Pour Corewell #2 | Corewell #2         |                         |
| AG.           | AG2050 AG Pour Corewal #3                          | 9                 | 8         | 0% 28-Apr-15  | 05-May-15     | 7     |                         |  |                                  |            | -            | AG PG               | AG Pour Corewal #3  |                         |
| AG            |  | 8                 | 9         | 0% 06-May-15  | 13-May-15     | 7     |                         |  |                                  |            |              | Į.                  | AG Pour Corewall 64 |                         |
| · AG          |  | 7                 | 7         | 0% 14-May-15  | 22-May-15     | 24    |                         |  |                                  |            | -            |                     | AG Erect Roof She   | ring, Dismantle Wa      |
| AG:           |  | -                 | ,         | 0% 25-May-15  | 25-May-15     | 02    |                         |  |                                  |            | ****         |                     | AG Stress Vent.     | endons, install Ro      |
| AG            |  | 7                 | 7         |   | 02~Jun-15     | 24    |                         |  |                                  |            | ***          |                     | AG Reinfolce and    | and Pour Roof           |
| AG:           |  | 7                 | 7         | 0% 03-Jun-15  | 11-Jun-15     | 32    |                         |  |                                  |            |              |                     | 100                 | got,                    |
| AG            | -  | 2                 | ro.       | 0% 18-Jun-15  | 24-Jun-15     | 27    |                         |  |                                  |            |              |                     | P                   | Dismantie-Roof Sh       |
| AG            |  | 6                 | 6         |   | 05-Jun-15     | 24    |                         |  |                                  |            |              |                     |                     | s Vobilization / Set-up |
| AG            |  | 2                 | 2         | 0% 08-Jun-15  | 09-Jun-15     | 24    | ,                       |  | ****                             |            | and the      |                     | AS ABABIS           | /e Elast                |
| AG            | 1  | 3                 | 3         |   | 12-Jun-15     | 24    |                         |  |                                  |            | -            |                     | 1 VG 1              | we Wrapping             |
| NO.           | ACADON AC Brotzest Cover                           |                   | 0         | 0% 15-Jun-15  | 17-Jun-15     | 24    | ****                    |  |                                  |            |              |                     | AG N                | Morate Coyer            |
| A A           | 1  | W) Z              | 7 4       | 0% 18-Jun-15  | 19-Jun-15     | 43    |                         |  |                                  | •••        |              |                     | 9                   |                         |
| ACA.          | +  | 0 0               | 0 0       |   | 01-70-10      | 17    |                         |  |                                  |            | ***          |                     |                     |                         |
| AG4           |  | 2 2               | 4 K       | 0% 14-114-15  | 20-11-15      | 27 88 |                         | ••••   |                                  | ****       | ***          | ****                | 7                   | Irata Tank Acces        |
| AGA           | 7-   | 2                 | 2         | 0% 02-Jul-15  | 03-Jul-15     | 27    |                         |  | ÷                                |            |              | -                   | 1                   | To be interesting       |
| AG4           | AG4060 AG Fill Reservoir                           | 2                 | 2         | 0% 06-Jul-15  | 07-Jul-15     | 27    |                         |  |                                  |            |              |                     | J                   | 6 Fill Reservoir        |
| AG            |  | vo.               | 2         | 0% 07-Jul-15  | 13-Jul-15     | 27    |                         |  |                                  | • • • • •  |              |                     | Ü                   |                         |
| Booster Pu    | ET   | 811               | 77        | 0%   14-11-19-15  | 78-70-15      | 21    |                         | ••••   |                                  |            |              | ļ                   |                     | 28-Jul-                 |
| 1             | ACADOL AG EXCEVATION OF POUNDATION                 | 4                 | 4         | 0% 14-May-15  | 19-May-15     | 28    |                         |  |                                  |            | -            | AG.                 | AG Excavation of Fo | Ambiadon                |
| 200           | ACAUST AG Foundation Footing                       | 9                 | 2         | 0% 20-May-15  | 26-May-15     | 29    |                         |  |                                  |            |              | ₩L.                 | A3 Foundation       | Bullo                   |
| AGA           |  | 4 4               | 4 14      | 0% 03-1m-15   | 00-lim-15     | 2 8   |                         |  |                                  |            | -            | ,                   |                     |                         |
| AGA           |  |                   | ) u       | 094 40 lim 45   | 47 Jun 46     | 7 6   | ***                     |  |                                  |            |              |                     | 1                   |                         |
| AGA           |  | o a               | 0 0       | OR 40 lon 45  | Nount de      | 47    | ****                    |  |                                  | ***        | ***          |                     | 2                   | COWN TO! BAIK WI        |
|               |  | 0                 | 0         |   | 28-20IP-13    | 4.0   |                         |  |                                  | -          |              |                     |                     | AG MOOT POTTTWOOR &     |
| Actual Work   | Critical Remaining Work                            | Summary           |           |   |               | -     | Page 3 of               |  | TASK filter, All Activities      | 88         |              |                     |                     |                         |
|               |  |                   |           |   |               |       |                         |  |                                  |            |              |                     |                     |                         |

| Activity ID |               | Activity Name                           | Remaind           | Schedule % Start            | Finish        | Total         |             | 7000       |                                 | The s speed |               | 200                                 |                |                     |
|-------------|---------------|---|-------------------|-----------------------------|---------------|---------------|-------------|------------|---------------------------------|-------------|---------------|-------------------------------------|----------------|---------------------|
|             |               |   | Duration Duration | Complete                    |               | Float         | 200         | Men One    | 1                               | C# 1, 2015  | -             | 8                                   |                | 3, 201              |
|             | AG4099        | AG Roof Concreting                      | 1 1               | 0% 30-Jun-15                | 30-Jun-15     | 24            |             | -          | -                               | 2           | +             | n way                               | С              | Sand Character      |
|             | AG5001        | AG Pipings                              | 9                 | 0% 01-Jul-15                | 08-Jul-15     | 28            |             |            |                                 |             |               |                                     |                | Dish of             |
|             |               | AG SCADA Piping and Panel               | 9                 | 0% 01-Jul-15                | 08-Jul-15     | 24            |             |            |                                 | **          | ***           |                                     | H              | S SCADA Phin        |
|             |               | AG SCADA Wiring and Termination         | IC)               | 0% 09-Jul-15                | 15-Jul-15     | 24            | ••••        | ****       |                                 |             |               |                                     | J              |                     |
|             |               | AG SCADA Programming                    | 4 4               | 0% 20-Jul-15*               | 23-Jul-15     | 22            | •••         | * * *      |                                 | •••         |               |                                     |                | ALI SCADA           |
|             | . 1           | AG Building Electrical                  |                   | 0% 01-Jul-15                | 10-Jul-15     | 28            |             |            |                                 |             |               | <br>                                |                | G Building Flech    |
|             | 1             | AG Painting                             |                   | 0% 01-Jul-15                | 03-Jul-15     | 38            |             |            |                                 | ****        |               |                                     | Y              | denting             |
|             |               | AG Booster Pump                         |                   | 0% 13-Jul-15                | 17-Jul-15     | 26            |             |            |                                 |             |               |                                     | 1              | AG Booster P        |
|             |               | AG Valves and Fittings                  | 8                 | 0% 08-Jul-15                | 17-34-15      | 28            |             |            |                                 |             | •••           |                                     | 1              |                     |
|             | _             | AG New Generator                        | 4 4               | 0% 23-Jul-15                | 28-Jul-15     | 20            |             |            |                                 |             |               |                                     |                |                     |
| L           | Yard Piping W | AD Francis A. 11                        | 9                 | 38 33% 24:1:31.1:1          |               | 25            |             |            |                                 | l           |               |                                     |                | 78                  |
|             |               | AG Lindermand Dhe Installation          |                   | 100% 15-Jul-14 A            |               | Uground pipes | bibes       |            |                                 |             | -             |                                     |                | _                   |
|             |               | AC Exercise Front Formand for Mark      |                   | 100% 18-Jul-14 A            |               |               |             | AG Und     | G Underground Pipe Installation | ation       |               |                                     |                |                     |
|             | T             | AG Tie Rebar Pour Concrete Vaulte       | 10 50             | 100% 13-D8C-14.A            | 4 US-JUE 15   | 1             |             | -          |                                 |             |               |                                     | AG Elcar       | CBV                 |
|             | 1             | AG Water Outage #1 Notification         |                   | 100% 24 Mar-14 A 18 Av-14 A | A 18 Am 14 A  | ,             |             |            |                                 |             | -             |                                     | J              | NG Te Reba          |
|             |               | AG Connect to Existing Watermain        | L                 | 0% 20-Jul-15                | 20-Jul-15     | 16            | -           | -          |                                 | t           | +             | 1                                   | ľ              | -                   |
|             | 1             | AG Valves and Fittings                  |                   | 0% 20-1ul-15                | 29- Lut-15    | 2 1           |             |            |                                 |             | ***           |                                     |                | Deuron Du           |
|             |               | AG Chlorination System                  | 8                 | 0% 20-Jul-15                | 29-Jul-15     | 23            |             |            |                                 |             |               |                                     |                |                     |
|             | AG7030        | AG Flowmeters                           |                   | 0% 28-Jul-15                | 29-Jul-15     | 7             |             |            |                                 | ,           |               |                                     |                | O L                 |
|             | AG7040        | AG Disinfection                         |                   | 0% 30-Jul-15                | 31-Jul-15     | 7             |             |            |                                 |             | -             |                                     |                | AG DE               |
|             |               | AG Leak Testing                         |                   | 0% 03-Aug-15                | 03-Aug-15     | 7             |             |            |                                 |             | -             |                                     |                | - VG                |
|             |               | AG Backfilling                          | 3 3               | 0% 04-Aug-15                | 06-Aug-15     | 7             |             |            |                                 |             |               |                                     |                | AG.                 |
| L           | AG7070        | AG Detention Basin                      | 0 6               | 100% 15-Dec-14A             | A 27-Mar-15 A | 1             |             | <b>L</b> , |                                 |             | 200           |                                     |                |                     |
| 1           | AG7080        | AG Detention Basin Headwall             |                   | 0% 09-Mar-15 A 10-Ave-15    |               | 100           | *           |            |                                 | U           |               | A Commission Design                 |                |                     |
|             | 1             | AG Fencing and Gates                    |                   | 0% 07-Aug-15                | 20-Aug-15     | 2             |             |            |                                 | ·           |               | No Desputo Bash He                  | BOWall         |                     |
|             | AG8000        | AG Entrance Base Course/Compaction.     |                   | 0% 07-Aug-15                | T             | 15            |             |            |                                 |             | ****          |                                     |                | 1 2                 |
|             | AG8010        | AG Tank Perimeter                       | 3                 | 0% 07-Aug-15                | T             | 6             | ****        |            |                                 |             | ***           |                                     |                | 9                   |
|             | AG8020        | AG A/C Paving                           |                   | 0% 13-Aug-15                | 13-Aug-15     | 6             |             | ••••       |                                 |             |               |                                     |                | L.F                 |
|             | Start-up and  | Start-up and Commissioning              | 2 2               | 0% 28-Jul-15                | 129-Juh-15    | 0.50          |             |            |                                 |             |               |                                     |                | 10.85 V             |
|             | T             | AG lesting                              |                   | 0%, 28-Jul-15               | 28-Jul-15     | 8             |             |            |                                 |             |               |                                     | •••            | PANG Tost           |
|             | O SOUTH       | Ac sart-up and commissioning            | 1 1               | 0% Z9-Jul-15                | 29-Jul-15     | 8             |             |            |                                 |             |               |                                     | •••            | AG Star             |
| Cento       | Darac         | Well Lettermondering CO Frank           |                   | CI-WEI-13                   | S1-409-15     |               |             |            |                                 | ****        |               |                                     | •••            |                     |
| 7000        |               | West instruction of Execution           |                   |                             |               |               |             |            |                                 |             | Well Instrume | strumentation CO Execution          |                |                     |
| CROKY       |               | GOV I KEVIEW - WEST FOW MEIBES          | C 1               | 0% 31-Mar-15A 14-Apr-15     | 4 14-Apr-15   | 0 0           |             |            |                                 |             | l             | Gov1 Review - Wed Flow Meters       | -low Meters    |                     |
| C8060       | T             | Well Instrumentation Programment        |                   | 078 31-Mar-15/              | 07 Iul 15     | 0 0           |             |            |                                 |             |               | Gov't Review - Weil Pressure Meters | Tessure Meters |                     |
| C8070       | -             | Well Instrumentation Field Installation | -                 | 0% OR-Jul-15                | 10-Aug-15     | 0 0           |             |            |                                 |             |               |                                     | N N            | Wed instrumentation |
| C8080       |               | Well Site SCADA Programming             |                   |                             | 26-Aug-15     | 0             |             |            |                                 |             |               |                                     |                | 1                   |
| C9000       |               | Pre-Final Inspection                    |                   | 0% 27-Aug-15                | 27-Aug-15     | 0             |             |            |                                 |             |               |                                     |                | 1                   |
| C9010       |               | Punchlist Correction                    | -                 |                             | 28-Aug-15     | 0             |             |            |                                 | ••••        | •             |                                     |                |                     |
| C9020       |               | Final Inspection                        | -                 | 0% 31-Aug-15                | 31-Aug-15     | 0             |             |            |                                 | ****        | ****          |                                     |                |                     |
| C9030       |               | Project Completion                      | 0                 | %0                          | 31-Aug-15     | 0             |             |            |                                 |             |               | •••                                 | •••            |                     |
| C9040       |               | Overall Project Completion Date         | 0 0               | %0                          | 31-Aug-15     | 0             |             |            |                                 |             |               |                                     |                |                     |
|             |               |   |                   |                             |               |               |             |            |                                 |             |               |                                     |                |                     |
| Act         | Actual Work   | Critical Remaining Work                 | ▼ Summary         |                             |               | _             | Page 4 of 4 |            | TASK filter: All Activities     | ies         |               |                                     |                |                     |
|             | B             | 4                                       |                   |                             |               |               |             |            |                                 |             |               |                                     |                |                     |

# Exhibit C

Garrett Veoh
"Brett Bales": Ibomas@guamwaterworks org
AMO CM Breakdown
Wednesday, January 04, 2017 12:58:02 PM
AMO Breakdown 2017/0104 xlsx

From: To: Subject: Date: Attachments:

| Current Contract   |                 |                   |          |          |
|--------------------|-----------------|-------------------|----------|----------|
|                    | Amount          | Execution<br>Date | LD start | LD end   |
| Contract           | \$ 639,316.90   | 05/30/13          |          |          |
| Change Order No. 1 | \$ 127,863.38   | 05/12/14          |          | ·        |
| Change Order No. 2 | \$ 271,800.00   | 10/07/15          | 10/18/14 | 05/31/15 |
| Change Order No. 3 | \$ 149,000.00   | 11/21/15          | 06/01/15 | 09/30/15 |
| Change Order No. 4 | S 70,200.00     | 02/03/16          | 10/01/15 | 11/30/15 |
| Total              | \$ 1,258,180.28 |                   |          |          |

<sup>\*</sup>Change Order No. 5 will cover 12/1/2016 to 12/31/2017

| CCU Approvais            | Amount |              | Purpose                                      |  |  |
|--------------------------|--------|--------------|--|--|--|
| Resolution No. 22-FY2013 | 5      | 767,180.28   | Original contract and contingency approvals  |  |  |
| Resolution No. 28-FY2015 | 5      | 514,800.00   | Increased cost covered by liquidated damages |  |  |
| Total                    | \$     | 1,281,980.28 |  |  |  |

| Month             |           | T  | AMOrient Billing |
|-------------------|-----------|----|------------------|
| <u> </u>          | Oct-14    | 5  | 18,000.00        |
|                   | Nov-14    | 5  | 30,600,00        |
|                   | Dec-14    | \$ | 37,800.00        |
|                   | Jan-15    | \$ | 36,000.00        |
|                   | Feb-15    | \$ | 36,000.00        |
|                   | Mar-15    | 5  | 37,800.00        |
|                   | Apr-15    | 5  | 39.600.00        |
| , ,               | May-15    | 5  | 36,000.00        |
|                   | Jun-15    | 5  | 39,600.00        |
|                   | Jul-15    | \$ | 37,800.00        |
|                   | Aug-15    | \$ | 33,800.00        |
|                   | Sep-15    | \$ | 37,800.00        |
|                   | Oct-15    | 5  | 37,800.00        |
|                   | Nov-15    | \$ | 32,400.00        |
| Portion of Dec-15 |           | S  | 23,800.00        |
|                   | Sub-Total | \$ | 514.800.00       |
|                   |           |    |                  |
| Portion of Dec-15 |           | \$ | 15,800.00        |
|                   | Jan-16    | S  | 29,196.00        |
|                   | Feb-16    | \$ | 28,377,00        |
|                   | Mar-16    | s  | 27.081.00        |
|                   | Apr-16    | 5  | 34.677.00        |
|                   | May-16    | 5  | 22,770.00        |
|                   | Jun-16    | \$ | 26.100.00        |
|                   | Jul-16    | \$ | 33,840.00        |
|                   | Aug-16    | 5  | 31,050.00        |
|                   | Sep-16    | 5  | 33,750.00        |
|                   | Oct-16    | \$ | 30,600.00        |
|                   | Nov-16    | 5  | 17,100.00        |
|                   | Dec-16    | \$ | 16,200.00        |
|                   | Sub-Total | \$ | 346,541.00       |
|                   |           |    |                  |
|                   | TOTAL     | 5  | 861,341.00       |

Resolution No. 28-FY2015

Upcoming Resolution No. -FY2017

Regards, Garrett Yeoh