

#### CONSOLIDATED COMMISSION ON UTILITIES

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

#### **RESOLUTION NO. 43-FY2017**

#### RELATIVE TO INCREASE FUNDING FOR THE YIGO AND ASTUMBO RESERVOIR CONSTRUCTION MANAGEMENT CONTRACT

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

WHEREAS, the CCU passed Resolution No. 53-FY2016 on August 23, 2016 that approved Pernix Guam, LLC to construct the new Yigo No. 1 reservoir, new Astumbo No. 1 reservoir, and new Yigo Elevated booster pump station after which the Notice to Proceed was issued on December 2, 2016; and

WHEREAS, GWA management subsequently executed Change No. 1 to Pernix Guam, LCC that advanced the construction of Yigo No. 3 reservoir and its associated work which was stipulated in the construction contract to potentially occur as a later phase once Yigo #1 reservoir was completed; and

WHEREAS, the advancement of the construction of the new Yigo #3 reservoir was not taken into account in the initial Construction Management (CM) services scope thus GWA negotiated with GHD to continue CM services for the Yigo No. 3 reservoir in the amount of

Three Hundred Ninety Seven Thousand Five Hundred Sixty Six Dollars (\$397,566.00) (see EXHIBIT A); and

WHEREAS, GWA has already executed one Change Order to the Construction Manager contact which leaves a balance in the contingency of approximately One Hundred Three Thousand Eight Hundred Seventy Five Dollars (\$103,875.00); and

WHEREAS, GWA management seeks CCU approval of the increase in funding, on top of current available contingency fund, for the additional CM services in the amount of Two Hundred Ninety Three Thousand Six Hundred Ninety One Dollars (\$293,691.00); and

WHEREAS, as this increase is actually required for planned future construction, and not an unplanned need, GWA management seeks CCU approval of a ten percent (10%) contingency to the additional fund request of Twenty Nine Thousand Three Hundred Sixty Nine Dollars and Ten Cents (\$29,369.10), to bring the additional fund request to Three Hundred Twenty Three Thousand Sixty Dollars and Ten Cents (\$323,060.10); and

WHEREAS, CCU Resolution No. 02-FY2015 (see EXHIBIT B) approved the original funding total of One Million Five Hundred Twenty Six Thousand Seven Hundred Eighty Dollars and Twenty Cents (\$1,526,780.20) for the construction management services of the Yigo No. 1 reservoir, Astumbo No. 1 reservoir, Yigo Elevated booster pump station and associated work; and

WHEREAS, GWA management seeks CCU approval of the increased funding total of One Million Eight Hundred Forty Nine Thousand Eight Hundred Forty Dollars and Thirty Cents (\$1,849,840.30); and

WHEREAS, funding for this project will be from the bond funds under the line item - PW 09-11 "Water System Reservoirs 2005 Improvements" and PW 12-05 "Tank Major Repair Yigo #1, Mangilao #2, Astumbo #1"; 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.
- 2. The CCU finds that the terms of the fee proposal submitted by GHD are fair and reasonable.
- 3. The CCU finds that the terms of the conditions set by GWA relative to commencement of subsequent work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- 4. The CCU hereby approves the funding increase of Three Hundred Twenty Three Thousand Sixty Dollars and Ten Cents (\$323,060.10) for the construction management of Yigo No. 3 reservoir and its associated work.
- 5. The CCU hereby approves total authorized funding amount to One Million Eight Hundred Forty Nine Thousand Eight Hundred Forty Dollars and Thirty Cents (\$1,849,840.30), which includes the original approve funding.
- The source of funding for the additional CM services will be from the bond funds under the line item - PW 09-11 "Water System Reservoirs 2005 Improvements" and PW 12-05 "Tank Major Repair Yigo #1, Mangilao #2, Astumbo #1".

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

DULY AND REGULARLY ADOPTED, this 25th day of July 2017.

Certified by:

JOSEPH T. DUENAS

Chairperson

Attested by:

Í√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:	5	
NAYS:	0	
ABSTENTIONS:	<u> </u>	
ARSENT.	O	

#### Exhibit A (1 of 14)



February 3, 2017

Mr. Tom Cruz, P.E. Chief Engineer Guam Waterworks Authority Gloria B. Nelson Public Service Building 688 Route 15 Mangilao, Guam 96913

RE: Change Proposal 02 (CP-2) for Construction Management Services for PW12-05 GWA Yigo and Astumbo Replacement Reservoirs, GWA Project W13-001-BND Additional CM Services for Yigo No. 2 Reservoir Construction

Dear Mr. Cruz:

GHD is pleased to submit this proposal for an amendment to our Scope of Work and Fee for the above referenced project. This scope of work defines the construction management services that will be provided by GHD Inc. and their subconsultants for additional CM service for construction of Yigo No. 2 Reservoir. The additional scope for **CP-02** as discussed with GWA is detailed below. The original project scope will be changed on a lump sum basis per the fees in the table below.

#### **SCOPE OF WORK**

**General:** GHD shall provide additional Construction Management (CM) Services for a six (6) month period, from December 5, 2017 to June 5, 2018, with final completion and closeout services to July 30, 2018 in conjunction with GWA's contract modification to construct Yigo Reservoir No. 2. The original contract completion date for CM services was for twelve (12) months after the notice to proceed for the contractor on December 5, 2016. The July 30, 2018 completion date is taken from the Contract Change Request No. 1 from Pernix.

**Details:** The Scope of Work will provide an extension of the construction phase tasks provided in the original Scope of Work that relate to the construction of Yigo Reservoir No. 2. See attached Fee Proposal for QA testing and survey service to be included.

#### Data and Assumptions:

a. These CM Services are being provided for the construction of improvements shown on the construction plans and include in the bid schedule that was awarded to Pernix, including Tank No. 2. If additional improvements are added to the construction contract then the fees for additional CM Services will be negotiated with GWA.

## GHD

#### Exhibit A (2 of 14)

- b. It is understood that the intent is for GHD to provide six (6) consecutive months (126 work days or 182 calendar days) of Resident Engineer (RE)/Project Manager (PM) services and six (6) consecutive months of full time onsite inspection. An additional full time onsite inspector is anticipated for an estimated period of two months when both Yigo 1 and Yigo 2 are under construction. RE/PM services have been estimated at 20 hours per week. This is based upon a standard 40 hour work week.
- c. GWA agrees to negotiate with GHD for change orders for additional construction phase services due to construction delays, additional work for substantial completion beyond June 5, 2018 and final completion beyond July 30, 2018, adverse weather delays, or any other reason not due to the negligent acts of GHD until final acceptance of the project is achieved.

Our lump sum fees are summarized in the following Fee Schedule:

#### FEE SCHEDULE FOR ADDITIONAL CONSTRUCTION MANAGEMENT SERVICES

TASKS	TOTALS
Original Contract Amount	\$1,387,982
Contract Amount with CO #1	\$1,422,905
Yigo No. 2 Construction Phase CM Services	\$381,663
SUBTOTAL COST	\$381,663
GUAM GRT (at 4.167%)	\$15,904
TOTAL CHANGE PROPOSAL COST	\$397,566
AMENDED CONTRACT AMOUNT	1,820,471

\* Work which exceeds the scope of this proposal will be brought to your attention for review, approval and fee adjustment. Such extra services, will be performed on a time and materials basis (per our Fee Schedule in effect at the time services are performed), or for a mutually agreed upon lump sum. Work performed will be billed monthly based on estimated percent complete. Payment is due within 30 days of receipt and acceptance of the invoice. We stand ready to provide the professional services necessary to assist GWA in this endeavor.

Sincerely,

Aaron Sutton

Construction Manager

C Ann

Attachments: GHD Change Proposal Fee dated 02/01/17

Cc: file

CHANGE PROPOSAL 2

Amount														37,977	15,031		4,206	39,809	9,440	1 920	1.024		412	32,902	1,337	16,680						6,915	10,995	6,360	3,155	5,245				
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Project Manager Ass't (Bobbie)				,		0	,			,																			1											
Estimating Support (Emile Roux of RLB)	110									,									1											T			20					1		
Submittal/RFI Manager (Briankeith/Andre)	8																	200								20			1									1		
P6 Scheduler (Larry Matson)	150																	2	OC a																			Ī		
Electrical Inspector	125			r											13									13	7	4												Ī		
Civil Inspector (Peter/Paul)	90.6						1							167	13			65			9		2	52	71.															
Civil Inspector/Structural (Briankeith/Andre)	115.6		A CONTRACTOR				1							45	13		26	25					2	26													Ī			
CM Safety Officer (Mark)	8																																							
Electrical Engineer (EMCE)	125						1	,		,							0	20						13	0	4						2	2	4						
SR Electrical Engineer (EMCE)	160							-																ω	0	4						2								
Structural/Special Inspector (Briankeith/Andre)	110			100				-									20	25								8						4		12						
Civil Engineer/CQA (Briankeith/Andre)	110						,																											12						
Prestress Structural Specialty (Eric Magee)	165					,	,			-							C	20								4						4								
M9:set. PM	160				,			,						65	52		4	40	4	12	3			9	12	45						20	20	15	10	20				
PM/Resident Engineer (Bryan/Aaron)	205						1	1	8					33	5				t (**					36	9	4						4	4	4	4	4		T	1	
Principal Engineer (Paul\Jeff)	245		•																65					15	4	4						5	5		3	5		1	1	
Task Description	HOURLY LABOR RATES	PRECONSTRUCTION PHASE TASKS	Construction Management Plan	Constructability Review (90% (x2) & Final)	Value Engineering (90% (x2) & Final)	Biddability Review & Contract Bidding (90% (x2))	PRECONSTRUCTION PHASE HOURS SUBTOTAL	PRECONSTRUCTION PHASE SUBTOTAL	PRECONSTRUCTION PHASE EXPENSES SUBTOTAL	PRECONSTRUCTION PHASE SERVICES & EXPENSES TOTAL	CONSTRUCTION PHASE TASKS		-	1 Daily Construction Reports (assumes 5 days/wk @ 26 wks = 130 logs)		A Mideography & Live Video Each	Suhmittale & Shop Designer (secumes 200)	Contractor Project Schedules (assumes 8 ea.)		Д		-		Z Progress Meetings (26 x z nours each plus prep & minutes) 3 As-built Drawing Reviews		14	۲,	1 Labor Laws (see Task B4.1)		O	1 Claim Records (assumes 3 potential claim incidents)					_		Construction Inspection and Ouglity Control Monitoring		
Phase Letter and Task Numbe		٨	A1	A2	A3	A4				SANCES ALTHOUGH	ш	B1.0	B2.0	B2.1	B2.2	B2.4	R3.0	B3.1	B3.2	B4.0		B5.0	B3.1	B5.3	B5.4		B7.0	B7.1	B7.3		B8.1	B8.2	B8.3	B8.4	88.5	88.6	B9.7			

GWA Yigo Tank 2 CM

Amount	107.782	12 980		200			1,250	1,812		3,240	5.574		3.772	365				338,573	43,090	301,003					I		ATTENDED TO			381.663	15 904	397 566
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Estimating Support (Emile Roux of RLB)																	20	5,500	2 500	00000					Ī		-	50	25	SAN TANGENTAL SAN TANKS	T	T
Submittal/RFI Manager (Briankeith/Andre)																	250	22,500	22 500	22,300					I		a	250		THE PERSON NAMED IN	Ī	
P6 Scheduler (Larry Matson)																	58	8,700	8 700	0,100								28	25		İ	T
Electrical Inspector (EMCE)	20			2			80			2	8						72	000'6	000	2000'6				1				72	NAME OF TAXABLE PARTY.		Ī	T
Civil Inspector (Peter/Paul)	522				,			20			12				1,400		871	78,913	78 013	016,07							,	871				T
Civil Inspector/Structural (Briankeith/Andre)	360										12		20		Hours:		529	61,152	61 152	201,102						6		529			l	t
CM Safety Officer (Mark)	56														Inspector Hours		26	2,470	2 470	8								26	STATE STATES			t
Electrical Engineer (EMCE)	4			2			2			2					Sum		22	7,125	7 125	1,120				ŀ				57	Supplemental States	TOTAL CONTROL OF THE PARTY OF T		
SR Electrical Engineer (EMCE)	3																19	3,040	3.040	0,040				1	,			19		A COMPANIE WITH THE		
Structural/Special Inspector (Briankeith/Andre)		118						_								!	167	18,370	18 370	010'01				1				167	The state of the s			t
Civil Engineer/CQA (Briankeith/Andre)																9	12	1,320	1 320	-18								12	SALE SERVICES			t
Prestress Structural Specialty (Eric Magee)						9			- 2								16	2,640	2 640	2,010								16	SEC 3200 Page			l
Mq.tzzA (Aaron)	20									12	8		4	-	009	001	460	73,520	73.520	070'01								460	September 2			t
PM/Resident Engineer (Bryan/Aaron)	17									4	4		4	-	Hours		141	28,803	28 803	20,02			,		,			141	THE REAL PROPERTY.			-
Principal Engineer (Paul/Jeff)										-	•				Sum PM/RE Hours	-	4	10,780	10 780	100								44	SAPERATOR SPECI			
Task Description	Onsite Inspector (assumes 1500 hr, 1/2 time for RE & Asst. RE)	Special Inspections	Testing	Contractor Testing (part of Task B10.1)	CM/CQA Testing (also see expenses)	GWA Testing (part of Task B10.1)	Acceptance (part of Task B10.1)	Construction QA Survey Services (also see expenses)	B12.0 Project Closeout	Punchlist Development	Project Closeout Inspections	B13.0 Training and Warranty Periods	Training	Warranties		Concentration of the property	CONSTRUCTION PHASE SERVICES HOUR SUBTOTAL	CONSTRUCTION PHASE SERVICES SUBTOTAL	CONSTRUCTION PHASE EXPENSES SUBJOILAR CONSTRUCTION PHASE SERVICES & EXPENSES TOTAL		POST CONSTRUCTION SERVICES	Final Report	Record Drawings	POST CONSTRUCTION PHASE SERVICES HOUR SUBTOTAL	POST CONSTRUCTION PHASE SERVICES SUBTOTAL	POST CONSTRUCTION PHASE EXPENSES SUBTOTAL	SUBTOTAL POST CONSTRUCTION SERVICES	SUBTOTAL HOURS		SUBTOTAL	GRT AT 4.167%	GRAND TOTAL
	- 1	_	_	B10.3.1	B10.3.2	B10.3.3		B11.0 Cc	112.0 Pr		B12.2	13.0 Tr	B13.1	B13.2		- 1	5 6	5 0	5 0	S12300000		П	C2 Re	1	PC	PC	SI	ALL SU	Charlestern		ALL GF	Г

## Exhibit A (5 of 14)

GHD - PROJECT EST	IMATING S	SHEET- GH	D EXPENS	SES	
Project Name: GWA Construction of Yigo Reservoir GHD Project Number: 8411481 Prepared by: Aaron Sutton				Attachment: of:	Bryan Ryley 1/31/2017
EXPENSE ITEM	QUANTITY	UNIT COST	AMOUNT	MARKUP	TOTAL
PRECONSTRUCTION PHASE TASKS					I SEE SEE SEE
Report Reproduction, misc.	0	750	0	0	0
		14 1 14 1			121
SUBTOTAL		750	0	0	0
CONSTRUCTION PHASE TASKS					
Mileage (0.52/mile)	18750	0.52	9,750	1,463	11,213
Report Reproduction, misc	1	375	375	56	431
Live Video feed, website access & maintenance (6 months)	6	173	1,035	155	1,190
CQA Compaction Testing	1	1,965	1,965	295	2,259
CQA Concrete Testing	1	10,065	10,065	1,510	11,575
CQA Survey Verification	1	14,280	14,280	2,142	16,422
SUBTOTAL	- C	26,858	37,470	5,620	43,090
POST CONSTRUCTION SERVICES	Shaw has				
		131 117	P 101	132 1342 143	0.00
SUBTOTAL			0	0	
TOTAL		27 609			42,000
TOTAL		27,608	37,470	5,620	43,090

#### Exhibit A (6 of 14)

GHD - PROJECT ESTIMATING SHEET	- GHD QA SERVICE	S SUMMARY	
Project Name: GWA Construction of Yigo Reservoir - CM Servi	ces Change Proposal 2	Attachment:	
GHD Project Number: 8411481		of:	
Prepared by: Aaron Sutton		Checked By:	
		Date:	1/31/2017
QA SURVEY ESTIMATE			
Under Tank Piping:	Quantity		
Inlet Piping & Top of Flange	\$800		
Outlet Piping & Top of Flange	\$800		
Over-Flow Piping & Top of Flange	\$800		
Drain Line Piping & Top of Flange	\$800		
Wash Down Piping	\$800		
Ring Drain, high points and outlets	\$1,200		
Over Excavation:			
Bottom of Over Excavation	\$800		
Top of Type G - Fine Aggregate	\$1,200		
Top of Type H - Drian Rock	\$1,200		
	Ψ1,200		
Tank Foundation:			
Top of Formwork	\$800		
Pump House Foundation:			
Top of Formwork	\$0		
Comparator Bills Foundation			
Generator Bldg Foundation:			
Top of Formwork	\$0		
Overflow Manhole:			
Below Base	\$0		
Top of Manhole	\$0		
Bottom of Overfow Pipe	\$0		
Detention Basin:			
Bottom of Pond	\$0		
<u>Vaults:</u> Top Outlet Vault #1 Footing Formwork	¢0		
Top Outlet Vault #1 Pooling Formwork  Top Outlet Vault #1 Roof Slab Formwork	\$0 *0		
Top Outlet Vault #2 Footing Formwork	\$0 \$0		
Top Outlet Vault #2 Poof Slab Formwork	\$0 \$0		
Top Drain Vault #1 Footing Formwork	\$0 \$0		
Top Drain Vault #1 Roof Slab Formwork	\$0 \$0		
Top Inlet Vault #1 Footing Formwork	\$0 \$0		
Top Inlet Vault #1 Roof Slab Formwork	\$0 \$0		
Top Inlet Vault #2 Footing Formwork	\$0 \$0		
Top Inlet Vault #2 Roof Slab Formwork	\$0 \$0		
Top Inlet Wault #2 Rooting Formwork	\$0 \$0		
Top Inlet Meter Vault Roof Slab Formwork	\$0 \$0		
Top Inlet/Outlet Meter Vault Footing Formwork	\$0 \$0		
Top Inlet/Outlet Meter Vault Roof Slab Formwork	\$0 \$0		
Top Electrical Handholds	\$800		
Top Communication Handholds	\$800		
1 op Communication Handholds	φουυ		

## Exhibit A (7 of 14)

Pavement:			
Ribbon Gutter Formwwork		\$800	
Pavement Formwork		\$800	
Bench Marks:			
Establish bench marks on top of all vaults,		\$1,200	
top of retaining wall, top of footing at water	•		
height guauge, over-flow, drian, & outlet.			
Continge	ncy 5%	\$680	
TOTAL ESTIMAT	ED BUDGET	\$14,280	
Rate			
Half Day \$800			
Full Day \$1,200			
Hourly \$150			
CQA TESTING ESTIMATE			
Material Labratory Testing:			
			2000 19
Procotor & Seive Analysis:	Unit Cost	<b>Quantity</b>	<u>Cost</u>
Type - G Crushed Aggregate	\$295.00	0	\$0.00
Type - H Drain Rock	\$295.00	0	\$0.00
Type - E Pea Gravel	\$295.00	0	\$0.00
Type - I Backfill Material	\$295.00	0	\$0.00
Compaction Testing:			
Over-Excavation:			
Bottom of Over-Excavation	\$74.00	1	\$74.00
Type G - Crushed Aggregate	\$74.00	5	\$370.00
Top of Type H - Drian Rock	\$340.00	1	\$340.00
Type-E Certificate of Observation	\$340.00	1	\$340.00
56.00			M to Wildowskiewy
Pump House:			
Foundation	\$74.00	0	\$0.00
Generator Bldg:			
Foundation	\$74.00	0	\$0.00
Overflow Manhole			
Below Base	\$55.00	0	\$0.00
			,
Outlet Vault #1			
Below Foundation	\$55.00	0	\$0.00
First Lift	\$55.00	0	\$0.00
Middle	\$55.00	0	\$0.00
Last	\$55.00	0	\$0.00
	Ţ- <b>-</b>	•	ψ5.00

### Exhibit A (8 of 14)

Outlet Vault #2				
Below Foundation	\$55.00	0	<b>#0.00</b>	
First Lift		0	\$0.00	
	\$55.00	0	\$0.00	
Middle	\$55.00	0	\$0.00	
Last	\$55.00	0	\$0.00	
Drain Voult #1				
<u>Drain Vault #1</u> Below Foundation	\$55.00	0	<b>CO.00</b>	
First Lift		0	\$0.00	
	\$55.00	0	\$0.00	
Middle	\$55.00	0	\$0.00	
Last	\$55.00	0	\$0.00	
Inlet Vault #1				
Below Foundation	\$55.00	0	\$0.00	
First Lift	\$55.00	0	\$0.00	
Middle	\$55.00			
		0	\$0.00	
Last	\$55.00	0	\$0.00	
Inlet Vault #2				
Below Foundation	\$55.00	0	\$0.00	
First Lift	\$55.00	0	\$0.00	
Middle	\$55.00	0	\$0.00	
Last	\$55.00	0		
Last	φυσ.00	U	\$0.00	
Inlet Meter Vault				
Below Foundation	\$55.00	0	\$0.00	
First Lift	\$55.00	0	\$0.00	
Middle	\$55.00	0	\$0.00	
Last	\$55.00	0	\$0.00	
Inlet/Outlet Meter Vault				
Below Foundation	\$55.00	0	\$0.00	
First Lift	\$55.00	0	\$0.00	
Middle	\$55.00	0	\$0.00	
Last	\$55.00	0	\$0.00	
Electrical Handholes (estimated)				
Below Foundation	\$55.00	1	<b>CEE 00</b>	
First Lift		1	\$55.00	
	\$55.00	1	\$55.00	
Middle	\$55.00	1	\$55.00	
Last	\$55.00	1	\$55.00	
Communications Handholes (estimated)				
Below Foundation	\$55.00	1	\$55.00	
First Lift	\$55.00	1	\$55.00	
Middle	\$55.00	1	\$55.00	
Last	\$55.00 \$55.00	1		
Last	φυυ.υυ	1	\$55.00	
Pavement:				
Ribbon Gutter	\$74.00	1	\$74.00	
Pavement	\$74.00	2	\$148.00	
		Contingono	100/ 0470.00	
		Contingency	<b>10%</b> \$178.60	
	TOTA	L ESTIMATED BU	JDGET: \$1,964.60	)

## Exhibit A (9 of 14)

Rate			
Concrete Testing:			
Outlet Vault #1:	Unit Cost	Quantity	Cost
Footing	\$305.00	0	\$0.00
Walls	\$305.00	0	\$0.00
Roof Slab	\$305.00	0	\$0.00
Outlet Vault #2:			
Footing	\$305.00	0	\$0.00
Walls	\$305.00	0	\$0.00
Roof Slab	\$305.00	0	\$0.00
<u>Drain Vault #1:</u>			
Footing	\$305.00	0	\$0.00
Walls	\$305.00	0	\$0.00
Inlet Vault #1:	****		
Footing Walls	\$305.00	0	\$0.00
Roof Slab	\$305.00 \$305.00	0	\$0.00
Roof Slab	\$305.00	0	\$0.00
Inlet Vault #2:			
Footing	\$305.00	0	\$0.00
Walls	\$305.00	0	\$0.00
Roof Slab	\$305.00	0	\$0.00
Inlet Meter Vault:			1
Footing	\$305.00	0	\$0.00
Walls	\$305.00	0	\$0.00
Roof Slab	\$305.00	0	\$0.00
Inlet/Outlet Meter Vault:	0005.00	•	
Footing Walls	\$305.00	0	\$0.00
Roof Slab	\$305.00 \$305.00	0	\$0.00 \$0.00
10010100	Ψ000.00	O .	Ψ0.00
Encasement:			
Inlet Piping	\$305.00	1	\$305.00
Outlet Piping	\$305.00	1	\$305.00
Over-Flow Piping	\$305.00	1	\$305.00
Drain Line Piping	\$305.00	1	\$305.00
Wash Down Piping Electrical & Communications	\$305.00 \$305.00	1	\$305.00
Liectrical & Communications	\$305.00	1	\$305.00
<u>Handholds:</u>			
Electrical	\$305.00	1	\$305.00
Communications	\$305.00	1	\$305.00

## Exhibit A (10 of 14)

Pavement:				
Ribbon Gutter	\$305.00	1		\$305.00
Pavement	\$305.00	2		\$610.00
5				
Pump House:	was sta			
Footing	\$305.00	0		\$0.00
Walls	\$305.00	0		\$0.00
Roof Slab	\$305.00	0		\$0.00
Generator Building:				
Footing	\$305.00	0		\$0.00
Walls	\$305.00	0		\$0.00
Roof Slab	\$305.00	0		\$0.00
Motor Tonk				
Water Tank: Foundation	\$305.00	1		\$305.00
Core Walls (7 ea.)	\$305.00	7		\$2,135.00
Columns (4 ea.)	\$305.00	4		\$1,220.00
Column Footings (4 ea.)	\$305.00	4		\$1,220.00
Roof Slab	\$305.00			
Shotcrete	\$305.00 \$305.00	1		\$305.00
SHOUGELE	φ305.00	2 85		\$610.00
		00		
		Contingend		\$915.00
	TOT	Contingend	cy 10%	
DESCRIPTION OF TESTS:	тот		cy 10%	\$915.00 <b>\$10,065.00</b>
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Compressive Strength of Cylindrical Concret Curing and Disposal of Cylindrical Concret Air Content of Freshly Mixed Concrete by the Unit Weight and Yield of Fresh Concrete, each Slump Test & Making Concrete Speciments  QA SPECIAL INSPECTIONS  Special Inspections:  Outlet Vault #1:	rete Specimens (4 a te Specimens withouthe Pressure/Volum each: s in the field (2.5 Ho	Contingend  TAL ESTIMATED  It \$17.00 ea.):  It test, each: etric Method, per  urs of Labor):	BUDGET: test: SUBTOTAL	\$10,065.00 \$68.00 \$12.00 \$50.00 \$50.00 \$125.00 \$305.00
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Compressive Strength of Cylindrical Concret Curing and Disposal of Cylindrical Concret Air Content of Freshly Mixed Concrete by the Unit Weight and Yield of Fresh Concrete, estimp Test & Making Concrete Speciments  QA SPECIAL INSPECTIONS  Special Inspections:  Outlet Vault #1: Footing Walls Roof Slab  Outlet Vault #2: Footing Walls Roof Slab  Drain Vault #1:	rete Specimens (4 a te Specimens without the Pressure/Volumeach: s in the field (2.5 Howard Hours hours hours hours hours hours hours	Contingend  TAL ESTIMATED  It \$17.00 ea.): It test, each: etric Method, per urs of Labor):  Quantity 0 0 0 0 0	Amount 110 110 110 110 110	\$10,065.00 \$68.00 \$12.00 \$50.00 \$125.00 \$305.00 Total \$0 \$0 \$0 \$0 \$0
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## Exhibit A (11 of 14)

Inlet Vault #1:				
Footing	hours	0	110	\$0
Walls	hours		110	
Roof Slab		0		\$0
Root Slab	hours	0	110	\$0
Inlet Vault #2:				
Footing	hours	0	110	\$0
Walls	hours	0	110	\$0
Roof Slab	hours	0	110	\$0
Inlet Meter Vault:				
Footing	hours	0	110	\$0
Walls	hours	0	110	\$0 \$0
Roof Slab				
Roof Slab	hours	0	110	\$0
Inlet/Outlet Meter Vault:				
Footing	hours	0	110	\$0
Walls	hours	0	110	\$0
Roof Slab	hours	0	110	\$0
Encasement:				
Inlet Piping	hours	2	110	\$210
Outlet Piping	hours	2	110	\$210 \$210
Over-Flow Piping		2		
	hours		110	\$210
Drain Line Piping	hours	2	110	\$210
Wash Down Piping	hours	2	110	\$210
Electrical & Communications Ducts	hours	2	110	\$210
Handholds:				
Electrical	hours	1	110	\$210
Communications	hours	1	110	\$210
Pavement:				
Ribbon Gutter	hours	2	110	\$210
Pavement	hours	4	110	\$420
i avenient	nours	4	110	<b>Φ42</b> 0
Overflow Manhole:				
Pre-Cast Sections	hours	0	110	\$210
Pump House:				
Footing	hours	0	110	\$210
Walls	hours	0	110	\$210
Roof Slab	hours	0	110	\$210
		•		Ψ210
Generator Bldg:			YeT9129	
Footing	hours	0	110	\$210
Walls	hours	0	110	\$210
Roof Slab	hours	0	110	\$210
Water Tank:				
Foundation	hours	8	110	\$840
Core Walls (7 at 2 hours each)	hours	14	110	\$1,470
Columns (4 at 2 hours each)	hours	8	110	\$1,470 \$840
Column Footings (4 at 2 hours each.)		8		
	hours		110	\$840
Roof Slab (3 at 4 hours each)	hours	12	110	\$1,260

## Exhibit A (12 of 14)

Shotcrete ( 3 days at 8 hours)	hours	24	110	\$2,520
Vertical Post-tensioning	hours	8	110	\$840
Circumferential Pre-stressing	hours	16	110	\$1,680
	-	118		\$14,070

## Exhibit A (13 of 14)

GHD - PROJECT ESTIMATING SHEET- GHD EXPENSES					
Project Name: GWA Construction of Yigo Reserve GHD Project Number: 8411481 Prepared by: Aaron Sutton	oir - CM Services	Change Prop	osal 2	Attachment:     of: Checked by: Date:	Bryan Ryley 1/31/2017
EXPENSE ITEM	QUANTITY	UNIT COST	AMOUNT	MARKUP	TOTAL
PRECONSTRUCTION PHASE TASKS	Name and Address of the Owner, when the Owner, which the				TOTAL
SUBTOTA	AL			ti i	
CONSTRUCTION PHASE TASKS					
Photovotaic Solar Panel (EA.)	0	700	0	0	0
Marine Batteries (EA.)	0	125	0	0	0
Tristar MPPT Controller (EA.)	0	850	0	0	0
Camera Housing, Mounting Hardware (LS)	0	600	0	0	0
Internet Service - Static IP (Monthly)	12	150	1,800	270	2,070
Wiring, Battery Encloser, Misc. (LS)	0	400	0	0	0
NVR Recorder Hardware/Software (LS)	0	3,000	0	0	0
SUBTOTAL 1,800				270	2,070
POST CONSTRUCTION SERVICES					
SUBTOTA	\L				
TOTAL 1,800				270	2,070

#### Exhibit A (14 of 14)

#### **NOTES**

- 1 Survey cost assumes \$1,000 per crew day and 10 crew days total over the length of the project
- 2 GEO CQA costs assumes 10% check on Contractor's testing
- 3 Original contract was for 1 year (360 days)
- 4 Reduced contract with approval of Yigo 2 contract is 330 (substantial completion) + 196 (Substantial completion) + 75 days (Final) 360 (original contract) = 241 days extra
- 5 Negotiated to provide 180 days (6 months)
- 6 Extra costs considered:

Will need extra inspector because of complication of additional tank extra time beyond 360 days at Astumbo for final

#### Exhibit B (1 of 4)

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

#### **RESOLUTION NO. 02-FY2015**

#### RELATIVE TO APPROVAL OF THE YIGO AND ASTUMBO RESERVOIR CONSTRUCTION MANAGEMENT CONTRACT

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

WHEREAS, structural inspections of the Yigo #1, Yigo Elevated, and Astumbo #1 reservoirs has been completed and the reservoirs were found to be in poor condition; and

WHEREAS, the design of Yigo and Astumbo reservoirs are on its pre-final stage and nearly completed; and

WHEREAS, GWA has advertised the Request For Proposals (RFP-05-ENG-2014) soliciting statement of qualifications from experienced and qualified engineering firms to provide construction management services for the Yigo and Astumbo Replacement Reservoir project; and

WHEREAS, RFP packages were picked up by thirty (30) interested parties, from which GWA received proposal submittals from eleven (11) firms before the RFP submittal deadline; and

1 2

## Exhibit B (2 of 4)

WHEREAS, the GWA A-E Selection committee reviewed and evaluated the eleven (11) proposals (see EXHIBIT A) and generated a short list of the top three (3) firms with a recommendation to award a contract to the firm GHD and any successor at interest thereto (see EXHIBIT B – Evaluation Summary and GM Determination); and

WHEREAS, GHD and GWA negotiated the price for the services to be provided in the total amount of One Million Three Hundred Eighty Seven Thousand Nine Hundred Eighty Two Dollars (\$1,387,982.00) (see EXHIBIT C); and

WHEREAS, GWA management seeks approval of the fee proposal amount of One Million Three Hundred Eighty Seven Thousand Nine Hundred Eighty Two Dollars (\$1,387,982.00), along with a ten percent (10%) contingency of One Hundred Thirty Eight Thousand Seven Hundred Ninety Eight Dollars and Twenty Cents (\$138,798.20) to bring the total authorized funding amount to a maximum of One Million Five Hundred Twenty Six Thousand Seven Hundred Eighty Dollars and Twenty Cents (\$1,526,780.20); and

WHEREAS, funding for this project will be from the 2013 Bond Funds under the line item "PW 12-05 Tank Major Repair Yigo #1, Mangilao #2, Astumbo #1"; 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.
- The CCU finds that the terms of the fee proposal submitted by GHD are fair and reasonable.
- The CCU finds that the terms of the conditions set by GWA relative to commencement of subsequent work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- The CCU hereby authorizes the management to accept the fee proposal from GHD which is also incorporated into this Resolution in its entirety (Exhibit C).

# 1 2 3 4

#### Exhibit B (3 of 4)

- The CCU hereby further authorizes the management of GWA to enter into a contract with GHD, in the amount of One Million Three Hundred Eighty Seven Thousand Nine Hundred Eighty Two Dollars (\$1,387,982.00).
- 6. The CCU hereby further approves the total funding amount for this project of One Million Three Hundred Eighty Seven Thousand Nine Hundred Eighty Two Dollars (\$1,387,982.00), along with a ten percent (10%) contingency of One Hundred Thirty Eight Thousand Seven Hundred Ninety Eight Dollars and Twenty Cents (\$138,798.20) to bring the total authorized funding amount to One Million Five Hundred Twenty Six Thousand Seven Hundred Eighty Dollars and Twenty Cents (\$1,526,780.20).

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

DULY AND REGULARLY ADOPTED, this 28th day of October 2014.

Certified by:

SIMON A. SANCHEZ, I

Chairperson

Attested by:

JOSEPH T. DUENAS

Secretary

#### SECRETARY'S CERTIFICATE

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

#### Exhibit B (4 of 4)

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: |

