

1. Component NAVY	FY 2018 MILITARY CONSTRUCTION PROGRAM			2. Date
3. Installation(SA) and Location/UIC: N41557 US NAVSUPACT ANDERSEN GUAM JOINT REGION MARIANAS, GUAM		4. Project Title Water Well Field		
5. Program Element 0216496M	6. Category Code 84150	7. Project Number P103	8. Project Cost (\$000) 56,088	
9. COST ESTIMATES				
	UM	Quantity	Unit Cost	Cost(\$000)
WATER WELL FIELD	EA	1		21,700
WATER WELL DISTRIBUTION SYSTEM CC84150	EA	1	19,847,218.54	(19,850)
BUILT-IN EQUIPMENT	LS			(430)
SPECIAL COSTS	LS			(1,260)
OPERATION & MAINTENANCE SUPP INFO (OMSI)	LS			(160)
SUPPORTING FACILITIES				28,600
SITE PREPARATIONS	LS			(3,120)
PAVING AND SITE IMPROVEMENTS	LS			(2,420)
ELECTRICAL UTILITIES	LS			(9,580)
MECHANICAL UTILITIES	LS			(520)
ENVIRONMENTAL MITIGATION	LS			(12,960)
SUBTOTAL				50,300
CONTINGENCY (5%)				2,520
TOTAL CONTRACT COST				52,820
SIOH (6.2%)				3,270
SUBTOTAL				56,090
TOTAL REQUEST ROUNDED				56,090
TOTAL REQUEST				56,088
EQUIPMENT FROM OTHER APPROPRIATIONS (NON ADD)				(210)
10. Description of Proposed Construction:				
<p>-----</p> <ul style="list-style-type: none"> - Authorized Amnt per FY2018 NDAA PL115-91 is \$56,088K - Appropriated Amnt per FY2018 MILCON Approp Act PL115-141 is \$56,088K - Appropriation expires 30 Sep 2022 (per PL115-141) <p>-----</p>				
<p>Construct water well system with raw water transmission lines, water treatment, water storage, water transfer pump facility, power and communications system, and treated water transmission line. Two of the well sites will be equipped with generator buildings and the remainder of the well sites will be equipped with electrical buildings. The water well system is located within the Andersen Air Force Base (AAFB) Munitions Storage Area and will supply the majority of water to be used at the Marine Corps Base (MCB) Guam.</p>				
<p>This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations, and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings.</p>				

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<p>Built-in equipment includes standby generator systems at the transfer pump station and at each of the two water well facilities.</p> <p>Special costs include Post Construction Contract Award Services (PCAS), geospatial survey and mapping, Guam Gross Receipts Tax and Cybersecurity Commissioning. Building control systems include cybersecurity features.</p> <p>Operations and Maintenance Support Information (OMSI) is included in this project.</p> <p>Department of Defense and Department of the Navy principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development will be included in the design and construction of this project as appropriate.</p> <p>Site preparation includes site clearing and grubbing work for the project.</p> <p>Paving and site improvements include site demolition, access roadways, an emergency access roadway and a security fence with cable barriers, bollards, and deadmen for the emergency access roadway.</p> <p>Electrical utilities include primary electrical distribution, secondary electrical distribution, transformers, exterior lighting, and telecommunications infrastructure.</p> <p>Mechanical utilities include fire protection distribution lines.</p> <p>Environmental mitigation includes natural and cultural resource mitigation and unexploded explosive ordnance (UXO)/munitions and explosives of concerns (MEC) mitigations in compliance with the Explosives Safety Submission (ESS) for Guam Munitions Response Sites.</p> <p>Facilities will be designed to meet or exceed the useful service life specified in the DoD Unified Facility Criteria. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.</p>				
11. Requirement: <u>1</u> EA Adequate: <u>0</u> EA Substandard: <u>0</u> EA				
PROJECT: Construct water well system to provide continuous domestic, industrial, and fire protection water supply to MCB Guam. (New Mission) REQUIREMENT:				

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<p>In October 2005, as part of the Defense Policy Review Initiative (DPRI), the United States and Japan signed the Alliance Transformation and Realignment Agreement (ATARA), which outlined an evolving security relationship between the two close allies. A follow-on document, the United States-Japan Roadmap for Realignment Implementation of May 2006 (the Roadmap), provided details on the implementation of the new agreement and established the parameters for the relocation of elements of the III Marine Expeditionary Force (MEF) from Okinawa, Japan to Guam. In April 2012, the U.S.-Japan Security Consultative Committee (SCC) issued a joint statement announcing its agreement to adjust the plan outlined in the 2006 Realignment Roadmap to reflect a new force posture in the Pacific, referred to as the Distributed Laydown. Updated utility studies were completed in 2013 to determine utility demands including water demands, and to recommend utility improvements to support the SEIS and the Guam Master Plan for the 2012 Roadmap Adjustment.</p> <p>The MCB Guam requirement is approximately 1.25 million gallons per day (MGD) upon full operational capability.</p> <p>This project will provide approximately 0.81 MGD of potable water supply meeting the initial operational capability. The remaining water requirement will be met by a future military construction project.</p> <p>CURRENT SITUATION:</p> <p>The existing DoD water supply at Finegayan is inadequate to meet the MCB Guam requirements.</p> <p>The proposed well field location on AAFB is within the Agafa-Gumas sub-basin of the Northern Guam Lens Aquifer (NGLA). Previous groundwater studies, including the USGS Groundwater Availability Study indicated that this sub-basin has adequate groundwater capacity to meet existing water uses and proposed development water demands.</p> <p>The proposed well field site at AAFB is encumbered by numerous cultural, natural, and unexploded ordnance constraints, and Explosive Safety Quantity Distance arcs.</p> <p>This project is not in the 100 year flood plain.</p> <p>IMPACT IF NOT PROVIDED:</p> <p>Without the additional water supply and water system components to provide water to MCB Guam, there will be a water deficiency and an inability to meet the domestic, industrial, and fire protection requirements to support Marine Corps operations.</p>												
<p>12. Supplemental Data:</p> <p>A. Estimated Design Data:</p> <table border="0" style="width: 100%;"> <tr> <td colspan="2">1. Status:</td> </tr> <tr> <td>(A) Date design or Parametric Cost Estimate started</td> <td style="text-align: right;">03/2015</td> </tr> <tr> <td>(B) Date 35% Design or Parametric Cost Estimate complete</td> <td style="text-align: right;">03/2016</td> </tr> <tr> <td>(C) Date design completed</td> <td style="text-align: right;">09/2017</td> </tr> </table>					1. Status:		(A) Date design or Parametric Cost Estimate started	03/2015	(B) Date 35% Design or Parametric Cost Estimate complete	03/2016	(C) Date design completed	09/2017
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(D) Percent completed as of September 2016				15%
(E) Percent completed as of January 2017				35%
(F) Type of design contract			Design Bid Build	
(G) Parametric Estimate used to develop cost				Yes
(H) Energy Study/Life Cycle Analysis performed				Yes
2. Basis:				
(A) Standard or Definitive Design				No
(B) Where design was previously used				
3. Total cost (C) = (A) + (B) = (D) + (E):				
(A) Production of plans and specifications				\$3,937
(B) All other design costs				\$3,136
(C) Total				\$7,073
(D) Contract				\$5,774
(E) In-house				\$1,299
4. Contract award:				03/2018
5. Construction start:				04/2018
6. Construction complete:				03/2021
B. Equipment associated with this project which will be provided from other appropriations:				
<u>Equipment</u>		<u>Procuring</u> <u>FY Approp</u>		
<u>Nomenclature</u>		<u>Approp</u> <u>or Requested</u> <u>Cost(\$000)</u>		
Smart Grid Equipment		PMC	2021	210
JOINT USE CERTIFICATION:				
The Director Land Use and Military Construction Branch, Installations and Logistics Department, Headquarters Marine Corps certifies that this project has been considered for joint use potential. Joint Use is recommended.				
Activity POC: Project Development Lead		Phone No: 808-477-8991		