

1. Component NAVY	FY 2019 MILITARY CONSTRUCTION PROGRAM			2. Date 08 JAN 2018
3. Installation(SA) and Location/UIC: N41557 US NAVSUPACT ANDERSEN GUAM JOINT REGION MARIANAS, GUAM		4. Project Title Earth Covered Magazines		
5. Program Element 0216496M	6. Category Code 42122	7. Project Number P290	8. Project Cost (\$000) 52,270	
9. COST ESTIMATES				
Item	UM	Quantity	Unit Cost	Cost(\$000)
EARTH COVERED MAGAZINES (71,565SF)	m2	6,648.6		21,250
EARTH COVERED MAGAZINES (ECMS) CC42122 (26,565SF)	m2	2,468	5,990.11	(14,780)
OPEN STORAGE PADS CC21610 (35,000SF)	m2	3,251.6	757.44	(2,460)
AMMO REWORK AND O/H SHOP CC21610 (10,000SF)	m2	929	2,821.78	(2,620)
BUILT-IN EQUIPMENT	LS			(20)
SPECIAL COSTS	LS			(1,170)
OPERATION & MAINTENANCE SUPP INFO (OMSI)	LS			(200)
SUPPORTING FACILITIES				25,630
SITE PREPARATIONS	LS			(2,260)
PAVING AND SITE IMPROVEMENTS	LS			(5,570)
ELECTRICAL UTILITIES	LS			(13,600)
MECHANICAL UTILITIES	LS			(1,200)
ENVIRONMENTAL MITIGATION	LS			(3,000)
SUBTOTAL				46,880
CONTINGENCY (5%)				2,340
TOTAL CONTRACT COST				49,220
SIOH (6.2%)				3,050
SUBTOTAL				52,270
TOTAL REQUEST ROUNDED				52,270
TOTAL REQUEST				52,270
EQUIPMENT FROM OTHER APPROPRIATIONS (NON ADD)				(3,562)
10. Description of Proposed Construction:				
<p>Constructs 12 standard Hayman earth covered magazines (ECMs) of reinforced concrete capable of storing at a minimum 250,000 pounds net explosive weight (NEW) of Class/Division 1.1 munitions. Construction includes security lighting for the facilities and the magazines will be provided with infrastructure for an Intrusion Detection System (IDS). Facilities will support retail ordnance storage and operations for USMC Aviation Combat Element (ACE) and Ground Combat Element (GCE) at Munitions Storage Area (MSA) One.</p> <p>Constructs two open partially covered operations pads with lightning protection system (LPS), grounding and electrical service - one stuff/unstuff pad, and one ordnance pad. The two pads will be constructed of Portland cement concrete (PCC) slabs on grade, partially covered by roof overhang covers constructed of reinforced concrete roof slabs supported by reinforced concrete beams, columns and foundations.</p>				

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<p>Constructs an ammunition rework and overhead shop.</p> <p>Built-in equipment includes built in grounded assembly tables.</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. User Generated Unit Costs were used for this project and include the cost of features to meet the minimum DoD AT/FP standards. The magazines will be designed to resist sympathetic detonation from blast pressures generated from adjacent magazines.</p> <p>Special costs include post construction contract award services (PCAS), geospatial surveys and mapping, and Guam gross receipts tax.</p> <p>Operations and Maintenance Support Information (OMSI) is included in this project.</p> <p>Site preparation includes clearing and grubbing, earthwork, temporary sediment and erosion control, construction of earth berms and disposal of soil below new construction footprint.</p> <p>Paving and site improvements consists of roadway reconstruction of B and C avenues, road resurfacing of Ninth and Fifteenth Streets, concrete aprons, security fencing and gates, and landscaping.</p> <p>Electrical utilities include primary and secondary distribution systems, transformers, connection for portable back-up, emergency generator and telecommunications distribution.</p> <p>Mechanical utilities include foundation wall drains, shallow depressions, and swales for storm water disposal.</p> <p>Environmental mitigation includes natural and cultural resource mitigation, to include direct and programmatic mitigations required by the Record of Decision (ROD), Biological Opinion (BO) and Programmatic Agreement (PA). Soil testing and remediation and mitigation for Unexploded Ordnance (UXO)/Munitions and Explosives of Concern (MEC) are included in the 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 (LID) will be included in the design and construction of this project as appropriate.</p> <p>Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facility Criteria. Facilities will incorporate features that provide the lowest</p>				

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practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.				
11. Requirement: <u>6648 m2</u> Adequate: <u>0 m2</u> Substandard: <u>0 m2</u>				
PROJECT:				
Constructs 12 standard Hayman earth covered magazines, two partially covered concrete pads and an ammunition reworks and overhead shop.				
(New Mission)				
REQUIREMENT:				
The 2009 Guam International Agreement was amended in October 2013 between the United States Government and the Government of Japan. The agreement outlines the realignment of Marine Corps forces to reduce the United States military footprint on Okinawa, including the relocation of forces from Japan to Guam. The Guam Master Plan was completed in June 2014 to ensure all operational, base support, training, quality of life requirements, support facilities and infrastructure were identified and sited. The Military Munitions Annex to the Guam Joint Military Master plan was completed in June 2009, it was used as a supplement to the Guam Master Plan. The annex identifies and reduces explosives safety risks from military munitions.				
This projects is required to meet the munitions storage and assembly operations to meet the Marine Corps mission on Guam.				
CURRENT SITUATION:				
USMC munitions storage and assembly operations are currently conducted afloat and at USMC bases located on Okinawa, Japan. The United States and Japanese governments have bilaterally agreed to relocate USMC units from Okinawa to Guam. Basic Facility Requirements for Category Code Number 421-22 and 216-10 were established in October 2016 to provide adequate capacity to store retail ammunition at the installation, which includes Class V(W) [Ground] and Class V(A) [Aviation] ordnance for both Aviation Training Relocation (ATR) and non-ATR requirements. The USMC currently lacks the facilities necessary to meet the requirements.				
This project is not sited in a 100-year flood plain.				
IMPACT IF NOT PROVIDED:				
Units/activities will not vacate their current facilities on Okinawa, Japan until new replacement and support facilities in Guam have been completed, inspected, accepted and out-fitted. Failure to complete this project on time may delay or prevent the relocation from occurring.				
12. Supplemental Data:				
A. Estimated Design Data:				
1. Status:				

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(A) Date design or Parametric Cost Estimate started 02/2017 (B) Date 35% Design or Parametric Cost Estimate complete 04/2017 (C) Date design completed 10/2018 (D) Percent completed as of September 2017 25% (E) Percent completed as of January 2018 45% (F) Type of design contract Design Bid Build (G) Parametric Estimate used to develop cost Yes (H) Energy Study/Life Cycle Analysis performed No 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 \$2,813 (B) All other design costs \$2,011 (C) Total \$4,824 (D) Contract \$3,938 (E) In-house \$886 4. Contract award: 04/2019 5. Construction start: 05/2019 6. Construction complete: 04/2021 B. Equipment associated with this project which will be provided from other appropriations:																										
<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align:left;"><u>Equipment</u></th> <th style="text-align:center;"><u>Procuring</u></th> <th style="text-align:center;"><u>FY Approp</u></th> <th style="text-align:right;"><u>Cost(\$000)</u></th> </tr> <tr> <th style="text-align:left;"><u>Nomenclature</u></th> <th style="text-align:center;"><u>Approp</u></th> <th style="text-align:center;"><u>or Requested</u></th> <th style="text-align:right;"><u>Cost(\$000)</u></th> </tr> </thead> <tbody> <tr> <td>C4I Planning</td> <td style="text-align:center;">O&MMC</td> <td style="text-align:center;">2019</td> <td style="text-align:right;">1,690</td> </tr> <tr> <td>C4IT PMC</td> <td style="text-align:center;">PMC</td> <td style="text-align:center;">2021</td> <td style="text-align:right;">1,655</td> </tr> <tr> <td>Furniture, Fixtures and Equipment</td> <td style="text-align:center;">O&MMC</td> <td style="text-align:center;">2021</td> <td style="text-align:right;">77</td> </tr> <tr> <td>Smart Grid Equipment</td> <td style="text-align:center;">PMC</td> <td style="text-align:center;">2020</td> <td style="text-align:right;">140</td> </tr> </tbody> </table>			<u>Equipment</u>	<u>Procuring</u>	<u>FY Approp</u>	<u>Cost(\$000)</u>	<u>Nomenclature</u>	<u>Approp</u>	<u>or Requested</u>	<u>Cost(\$000)</u>	C4I Planning	O&MMC	2019	1,690	C4IT PMC	PMC	2021	1,655	Furniture, Fixtures and Equipment	O&MMC	2021	77	Smart Grid Equipment	PMC	2020	140
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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: 808-477-5892																								