



Naval Facilities Engineering Systems Command,
Marianas
PSC 455, Box 195
FPO AP 96540-2937

MILITARY RELOCATION TO GUAM AND CNMI PROGRAMMATIC AGREEMENT (PA) MEMO #1

Project: P-608 Earth Covered Magazines – Design and Construction	Date: May 6, 2024 Comment Period Open Until: June 19, 2024
Project Location: Naval Base Guam Naval Munitions Site	Prepared By: NAVFAC Pacific

PROJECT SUMMARY:

This project proposes to conduct project design efforts including geotechnical and topographic surveys and subsequently construct six (6) earth covered magazines within the bounds of Naval Base Guam Naval Munitions Site (NBNMS) (former Navy Base Guam Ordnance Annex) and Orote Point, Naval Base Guam (NBG). The proposed project includes site improvements and related infrastructure systems.

This project was identified after preparation of the Final Environmental Impact Study (FEIS) for the military relocation to Guam and the Commonwealth of the Northern Mariana Islands (CNMI) and Appendix E under various projects of the *2011 Programmatic Agreement (PA) among the Department of Defense, the Advisory Council on Historic Preservation, the Guam State Historic Preservation Officer, and the Commonwealth of the Northern Mariana Islands State Historic Preservation Officer Regarding the Relocation to the Islands of Guam and Tinian.*

In accordance with Stipulation IV.E.2.a., this PA Memo presents information to allow the Guam State Historic Preservation Officer (SHPO) and the public the opportunity to provide comments on the identification and evaluation of historic properties and the finding of effects.

PROJECT LOCATION:

The project is located on NBNMS and Orote Point, NBG. The NBNMS encompasses an area of about 3,577 hectares (8,838 acres) within the inland volcanic hills and valleys of south central Guam. The terrain is mountainous and rugged, dissected by limestone ridges of weathered karst topography. The area includes ravine forest, limestone forest, swordgrass communities, and savannah grasslands.

The NBG Main Base, at Apra Harbor, is primarily located on Orote Peninsula, a Mariana limestone formation that marks the southern edge of the harbor. This area is primarily developed, but contains patches of limestone, secondary ravine, and scrub forests. Some of the traditional CHamoru place names in this vicinity are Tuparao, Orote, and Sumay.

1 This PA Memo is required by Stipulation IV.E.2.a. of the PA as a means for interested members of the public to provide comments on the identification and evaluation of historic properties. Stipulation IV.E.1.b. of the 2011 PA requires the DoD to take into account comments received within 45 days of the date of the delivery of this PA memo to the SHPO and public notification via the CRI website.

The area of potential effects (APE) measures 33.3 acres (ac) or 13.48 hectares (ha) at the NBGNMS location and 6.2 ac (2.5 ha) at the Orote Point location for a total APE of 39.5 ac (15.9 ha). The APE is depicted in Figures 1-1 and 1-2.

PROJECT DESCRIPTION:

The proposed design and construction activities include various efforts.

Design studies consist of geotechnical investigation and topographic survey. Associated design work may include hand and mechanized vegetation clearing for access and/or line of sight, and munitions and explosives of concern (MEC) support.

The geotechnical investigation generally entails auger boring utilizing a truck-mounted drill rig. Exploratory boring depths vary, but range from 10 - 115 feet (ft) or 3 - 35 meters (m) and 4 inches (10 cm) in diameter. Topographic survey is conducted using conventional land survey equipment throughout the APE. The survey necessitates driving stakes or nails into the ground to establish control points or survey limits.

Construction of the magazines will use reinforced concrete and steel, designed to withstand regional environmental conditions as well as sympathetic blast pressures.

Construction site preparation and improvements associated with the project include clearing and grubbing, green waste recycling and management, earthwork and earthen berms with shotcrete. Additionally, the project requires pavement for driveways and new access roads, concrete for aprons and retaining walls, an approximately 1,000-meter (m) long chain link security fence measuring 2.4 m tall with gates, landscaping, selective site demolition, and upgrades to an existing ammunition storage pad at Orote Point, NBG.

The ground improvements will necessitate an infiltration basin drainage system. Electrical utilities include primary and secondary electrical distribution systems, transformers, fire alarm call boxes and transmitters, emergency generators and telecommunications distribution system. Mechanical utilities consist of a storm drainage system.

Demolition includes the removal of unused Armco type magazines past useful design life, unsuitable in design for the planned ammunition storage and beyond repair. The magazines are Building 112NM and Building 113NM, both overhead cover facilities addressed by the Advisory Council on Historic Preservation in a Program Comment For World War II And Cold War Era (1939-1974) Ammunition Storage Facilities.

IDENTIFICATION OF HISTORIC PROPERTIES:

The 2011 PA describes the overall efforts taken to identify historic properties in Stipulation IV, including archival research, oral studies, and interviews. Archaeological surveys have been conducted for the P-608 APE. Regulation does not require survey of an entire APE or identification of all historic properties, and 36 CFR Part 800.4(b)(1) states that a reasonable and good faith effort

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to carry out appropriate identification efforts shall be made. The 2011 PA directs the PA Memo process to allow for members of the public to provide input on the identification and evaluation of historic properties. The input sought includes knowledge on specific historic properties not yet identified by previous efforts, and assistance in identifying issues relating to effects on historic properties.

Enclosure 1 is a list of references supporting identification efforts in and near the APE. Figures 2-1 and 2-2 illustrates the scope of these efforts. Historic properties are present in the APE.

One site, includes a series of abandoned Armco magazines. These 1000-square foot magazines are associated with the establishment of the early Naval Magazine on Guam after the liberation of the island from the Japanese (Criterion A). They are also significant as examples of a quick and economic method of high explosive magazine construction (Criterion C). These magazines are missing their front wall and doors; however, essential features remain, such as the half-cylinder design on concrete slab and corrugated steel construction with earth covering. They retain sufficient integrity to convey their historic character and significance. They are eligible for listing in the National register of Historic Places (NRHP) under criteria A and C. As previously discussed, the ACHP has addressed the magazines in a Program Comment.

The other site is an area designed to store munitions holding vehicles. Constructed in 1944, the truck holding areas have drive-through paved truck parking areas which are isolated from the road and each other by very large earthen berms. Lightning rods are positioned in the parking area to prevent strikes from hitting any laden trucks. For consultation purposes, the site is considered eligible for listing in the NRHP. The construction of the special parking area for ammunitions and explosives holding vehicles at NBNMS is associated with the strategic establishment of the early Naval Magazine on Guam as a hub for military positioning in the Pacific (Criterion A). The components of the site, including the site layout and constructed elements, embody the distinctive characteristics of military explosives storage (Criterion C).

In accordance with Stipulation VI.F. of the 2011 PA, the Department of Defense has retained a full-time archaeologist to provide site checks, oversee coordination and execution of the archaeological mitigation measures in the 2011 PA and to provide quality control. This individual is on-staff at MCBCB, and is designated to respond to and report any inadvertent discoveries to the Signatories, Invited Signatories, and Concurring Parties per Stipulation XII of the 2011 PA.

FINDING OF EFFECTS:

The DON proposes a finding of no adverse effect upon historic properties, because although there are historic properties within the APE, the project has been modified to avoid adverse effects. Specifically, the project will avoid those components of the historic properties and will not directly or indirectly alter any of the characteristics that qualify the property for inclusion in the National Register of Historic Places in a manner that would diminish their integrity.

In the event of a post review discovery the DON will follow the procedures outlined in Stipulation XI of the 2011 PA. If comments received during the PA Memo process result in new information regarding historic properties, consultation will continue pursuant to the 2011 PA. Otherwise, PA Memo #2 will not be required as there will be no mitigation proposed for design studies.

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Enclosure 1
REFERENCES

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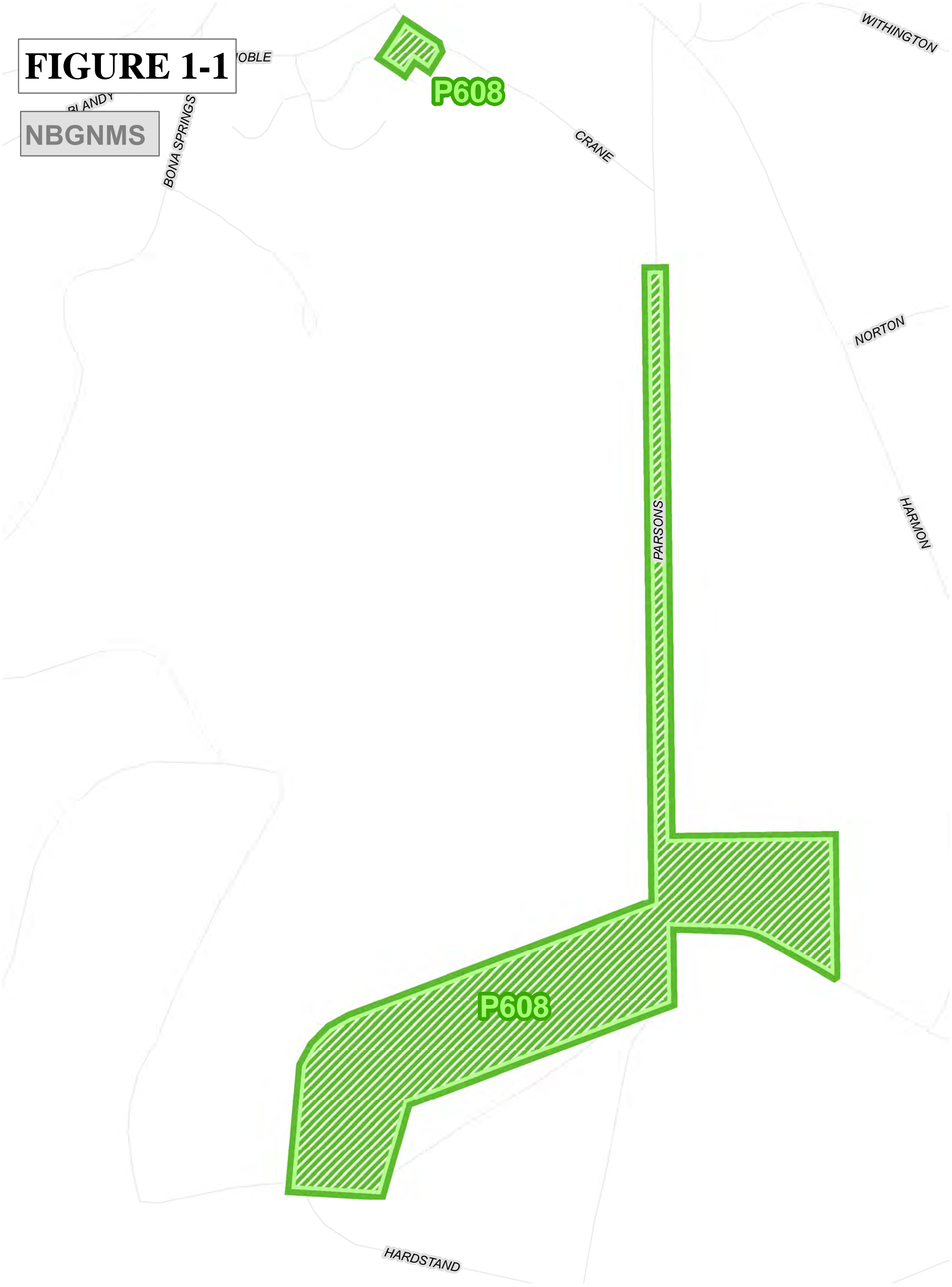
FIGURE 1-1

NBGNMS

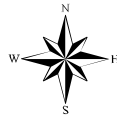
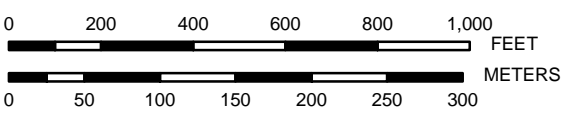
P608

P608

PARSONS



P-608 Earth Covered Magazines at Naval Base Guam Naval Munitions Site - Construction Area





PREPARED BY:
 Naval Facilities Engineering Command Pacific Division
 Guam Program Management Office

DATE: 09 Feb 2024



Coordinate System: UTM Zone 55 North
 Projection: Transverse Mercator
 Datum: D WGS 1984

Legend

-  P-608 (Earth Covered Magazines (NBGNMS)) - APE
-  Military Installations



Total APE Area P-608 = 39.5 Acres
 NBGNMS Area = 33.3 Acres

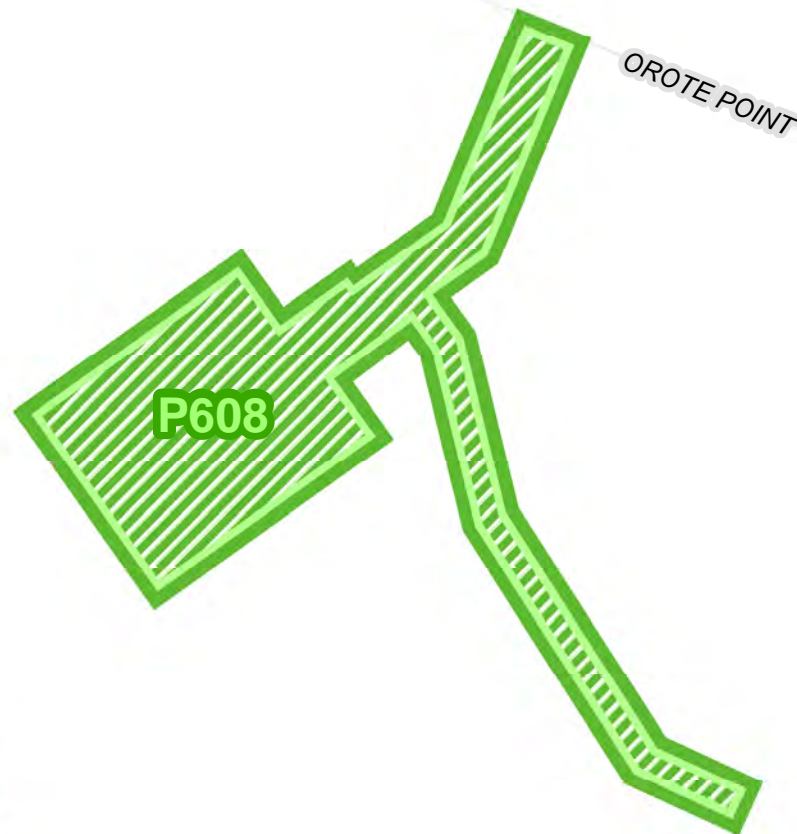
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FIGURE 1-2

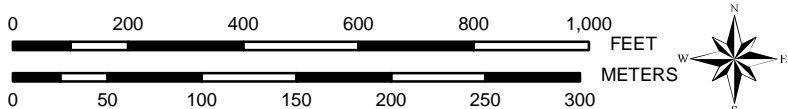
Orote Point

Apra Harbor

Philippine Sea



P-608 Earth Covered Magazines at Naval Base Guam Naval Munitions Site - Construction Area





PREPARED BY:
Naval Facilities Engineering Command Pacific Division
Guam Program Management Office
DATE: 09 Feb 2024



Coordinate System: UTM Zone 55 North
Projection: Transverse Mercator
Datum: D WGS 1984

Legend

-  P-608 (Earth Covered Magazines (NBNMS)) - APE
-  Military Installations

Total APE Area P-608 = 39.5 Acres
Orote Pt. Area = 6.2 Acres

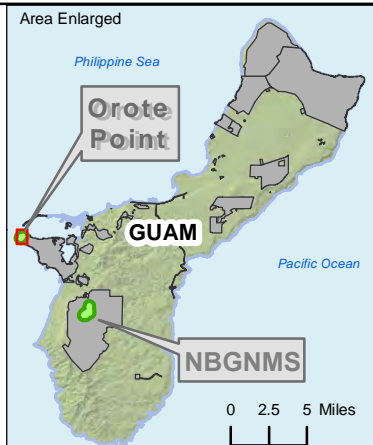


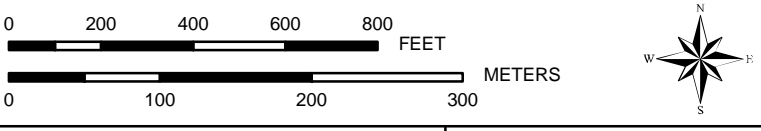
FIGURE 2-1



Cultural Survey Areas

- Allen et al. 2002
- Craib and Nees 1998
- Dixon et al. 2004
- Dixon et al. 2015a
- Dixon et al. 2015b
- Henry et al. 1999
- Hunter-Anderson and Moore 2002
- Lucas et al. 2021

P-608 Earth Covered Magazines at Naval Base Guam Naval Munitions Site - Construction Area



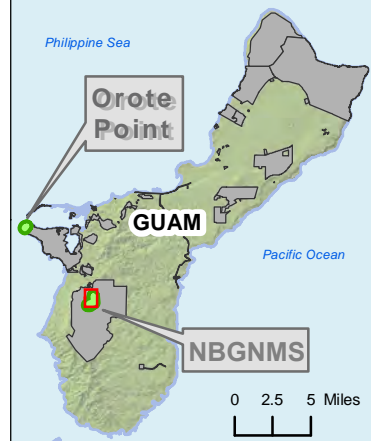
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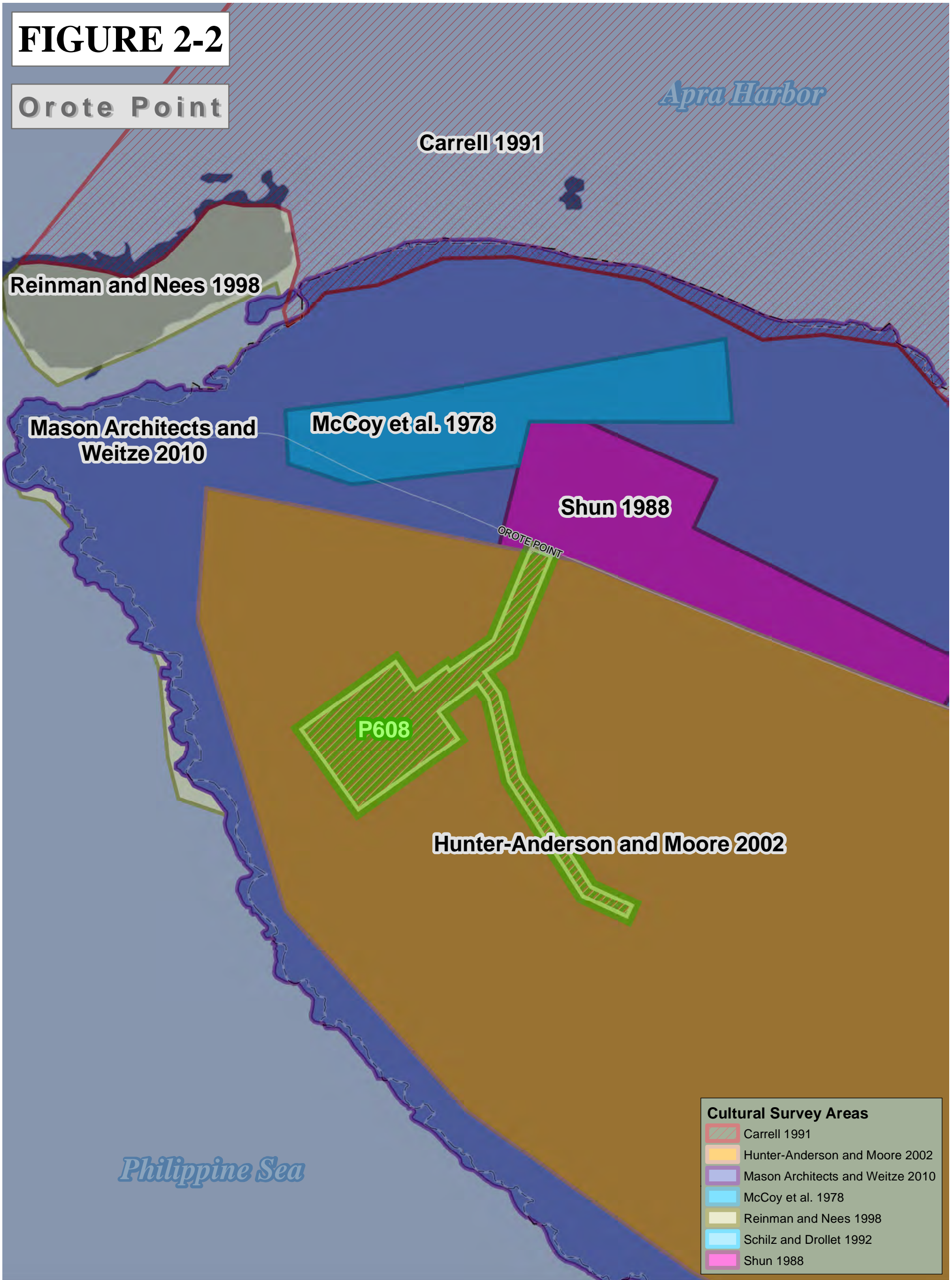
- P-608 (Earth Covered Magazines (NBNMMS)) - APE
- Military Installations



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FIGURE 2-2

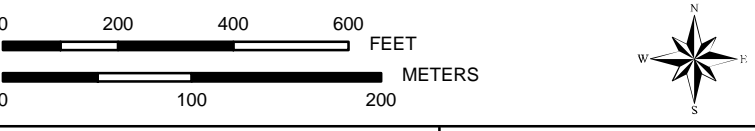
Orote Point



Cultural Survey Areas

- Carrell 1991
- Hunter-Anderson and Moore 2002
- Mason Architects and Weitze 2010
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- Reinman and Nees 1998
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P-608 Earth Covered Magazines at Naval Base Guam - Orote Point - Construction Area



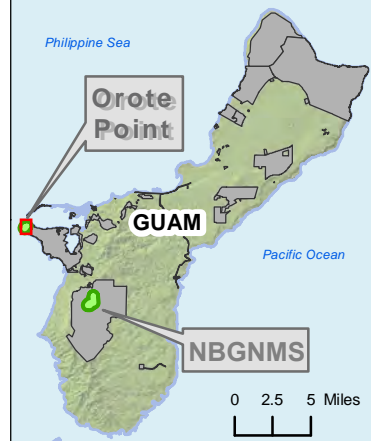
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- P-608 (Earth Covered Magazines (NBGNMS)) - APE
- Military Installations



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Military Relocation PA Memo Comment Form

2024

If submitting via **e-mail**, scan and send to: criwebcomment@navy.mil

If submitting via **postal mail**, send to:

Attn: CRI Web Comments
Code EV23, NAVFAC Pacific
258 Makalapa Drive, Suite 100
JBPHH, Hawaii 96860-3134

Submitted comments will be posted on the Navy's Cultural Resources Information (CRI) web site. Information presented on the CRI web site is considered public. The sections highlighted in **red** are required to be completed in order for a comment to be posted.

Privacy Act Statement

Personal information will only be used to contact you regarding the comments you submit. This information will only be shared with another government agency if your inquiry relates to that agency, or as otherwise required by law. We will not create individual profiles or give your information to any private organization. While you must provide a valid e-mail address or postal address, please **DO NOT** include personally identifying information such as a social security number.

By submitting this comment form, you agree not to include content that is offensive in nature, such as profanity, personal attacks on individuals, and racist or abusive language.

PROJECT: P-608 Earth Covered Magazines - Design and Construction

SUBJECT: Revised PA Memo#1

Date: _____

Name: _____

CRI User Name (if you don't want your real name to be posted with your comment on the CRI web site):

E-Mail Address: _____

and/or

Postal Mail Address: _____

COMMENTS: _____
