



Meeting Summary

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Prepared for: Guam Waterworks Authority (GWA)
IFB-03-ENG-2021

Project Title: Northern Guam LENS Aquifer (NGLA) Monitoring System Expansion Project (Re-Bid)

Project No.: GWA Project No. W20-001-OEA

Purpose of Meeting: Construction Virtual Pre-Bid Conference **Date:** April 9, 2021

Meeting Location: GoToMeeting **Time:** 10:00 a.m.

Notes Prepared by: Brown and Caldwell (BC)

Attendees: (See attached Pre-Bid Meeting Attendance sheet and Presentation)

Notes

- Meeting was initiated at 10:05 am
- Bob Shambach initiated the meeting
- Preliminary Items
 1. Kurt of Brown and Caldwell (BC), GWA's Program Manager, introduced the NGLA Expansion project team:
 - GWA – Project Owner
 - Gloria Bensan, GWA Procurement/Contract Officer
 - Brown and Caldwell – Program Manager and Engineer of Record
 - Jerry Johnson and Joseph Claveria
 - EA Engineering, Science, and Technology, Inc., PBC (EA) – Construction Manager (CM)
 - Bob Shambach
- Org Chart
 1. GWA is client and owner
 2. BC is under GWA and serves as PM for NDWWTP and Infrastructure improvement program
 3. EA – CM
 4. Project has been a collaboration with WERI and USGS involved in the design.
- Project Purpose
 1. Monitor freshwater thickness and fluctuation of the NGLA
 2. Install seven (7) new groundwater monitoring wells on Department of Defense (DoD) property
 3. Rehabilitate two (2) existing monitoring wells outside DoD property
- RFI deadline is April 14, 2021. We encourage RFIs.
- All answers provided in this meeting are informal and non-binding. It's important to get your questions in writing.
- Sealed bids are due April 26, 2021 at 3:00pm Chamorro Standard Time. There are no changes to the bid submittal procedures under the current pandemic conditions. Bidders can drop off the bid package at the lobby; security guard will notify Gloria to stamp receive the bid

package from the bidder. An invite to the virtual bid opening will be sent to registered bidders 3 days before the scheduled bid opening date.

- Contract time
 1. 430 days to substantial completion
 2. 460 days to final completion
- Addendum process
 1. Will be posted on website. Must be diligent in checking the website. Emails notifying potential bidders of posted addendums from GWA may not be sent.
- Bonding/Bid security
 1. Section 00200 – Instructions to Bidders - 15% of bid amount
- Bidding procedures
 1. Article 9 Section 00200 – Determination of successful bidder
 - On the lowest qualified base bid that is within the Project Budget
 - Encouraged to read this section
- Access Requirements
 1. Access to DoD property is required,
 2. Contractor personnel to obtain DBIDS cards or similar authorization to site.
- Basic Site Work and Typical Details
 1. As shown on the attached PowerPoint presentation
- Bid Appendices – make sure to review them
- Temporary Construction Easements (TCE) and Munitions and Explosives of Concerns/Unexploded Ordnance (MEC/UXO)
 1. For coordination requirements of each site, see Article 1.03, 01 11 00 – Summary of Work
 2. GWA has been granted TCEs from the DoD to allow construction at each site. These limits are shown in Appendix A
 3. MEC requirements are provided in Specification Section 01 35 44.
- Site Work and Typical Details
 1. Please see Meeting Presentation
- Main changes in bid documents
 1. Please see meeting presentation.
- Permitting
 1. See meeting presentation
 2. Contractor required to complete building permit with DPW.
 - Needs to obtain signature from Contractor's License Board
 - Contractor required for building permit fee
 3. Contractor to prepare and submit DoD Form AF103 ("work clearance request") to the Air Force
 4. Contractor to prepare and submit DZSP-21 Dig Permits
- Requiring a 3-week look ahead to help coordinate with other facilities and projects.
- See PowerPoint slide for project schedule
- Site access videos will be provided as an addendum.

- **Questions**
 1. For well cap, can an aluminum cap be used instead of stainless steel?
 - Response: Please submit an RFI.
 2. Does this project need to follow NAVFAC requirements for quality control/quality assurance, health and safety personnel?

- Response: This project is a Guam Waterworks project. A quality control/quality assurance and health and safety personnel is required for this project. A project team member can serve multiple roles.
- 3. Are there special requirements for MEC/UXO.
 - Response: Please review Specification Section 01 35 44. MEC/UXO requirements for this project do not need to follow the requirements of MEC/UXO on DoD property due to GWA being granted temporary construction easements around each well. Contractor is required to prepare and submit a MEC/UXO plan to DoD for approval.
- Please check website regularly for RFI, addendum, and announcement. Don't wait for email from Gloria.
- Bids can be submitted physical at the Gloria B. Nelson Public Service Building, Rt. 15, Mangilao.

Northern Guam LENS Aquifer (NGLA) Monitoring System Expansion Project (Re-Bid)**IFB-03-ENG-2021****GWA Project No. W20-001-OEA,****Pre-Bid Meeting Attendance Sheet**

Gloria Bensen	Guam Waterworks Authority
Jerald Johnson	Brown and Caldwell
Kurt Bilz	Brown and Caldwell
Joseph Claveria	Brown and Caldwell
Bob Shambach	EA Engineering, Science, and Technology, Inc., PBC
Cesar Calzada	Marianas Drilling
Shoja Rezvani, PE	A&R Pacific-Garney Federal JV
Roy Alexander	Alexander Drilling
Katrina Rios	Pacific Federal Management, Inc

Northern Guam LENS Aquifer (NGLA) Monitoring System Expansion Project– Virtual Pre-Bid Conference


IFB-03-ENG-2021

April 9, 2021





Preliminary Items

- Mute microphones, Video off
 - Roll call
 - Introductions
 - Gloria Bensen - GWA Engineering Procurement/Contracts
 - Brown and Caldwell is the Program Manager for this project.
 - Jerry Johnson – Program Manager, Brown and Caldwell
 - Joseph Claveria – Construction Lead, Brown and Caldwell
 - Bob Shambach – EA – Construction Manager
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GUAM WATERWORKS AUTHORITY

Owner



Brown AND Caldwell

Program Manager



EA Engineering, Science,
and Technology, Inc., PBC

Construction Manager




Contractor






Project Purpose

- **To Monitor freshwater thickness of the Northern Guam Lens Aquifer and provide an expansion of the groundwater monitoring system for Guam's Sole Source Aquifer. These wells will provide long-term hydrologic data and information needed for effective management of Guam's drinking-water resources.**
 - **Project is a collaboration with Guam Waterworks Authority (GWA), United States Geological Survey (USGS) and the University of Guam Water and Environmental Research Institute (WERI) of the Western Pacific**
 - **Install seven (7) new deep-monitoring wells on Department of Defense (DoD) property**
 - **Rehabilitate two (2) existing monitoring wells on DoD property**
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Virtual Pre-Bid Agenda Items

- Preliminary Information
 - Bidding Procedures
 - Summary of Work
 - Base Access Requirements, TCEs, & MEC/UXO
 - Work at Each Site
 - Bid Document Appendices
 - Permits
 - Virtual Site Visits
 - Project Schedule
 - Questions
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Preliminary Information

- The purpose of the Pre-Bid Conference is to provide the bidders a review of the scope of work and other special project requirements and to provide a forum for the Prospective Bidders to ask questions on the Design and Construction Scope of Work and other Contract Requirements identified in the Bidding Documents.
 - Prospective Bidders requiring “Formal” answers to their questions must submit their questions in writing to GWA’s Gloria Bensen, at: gpbensen@guamwaterworks.org; RFI deadline is April 14, 2021. We encourage RFIs.
 - All answers provided by GWA and its representative(s) in this Pre-Bid Conference to Prospective Bidders questions are considered Informal and non-binding.
 - All formal answers to Proposers questions shall be via the issuance of an Addendum available at GWA website to ensure that all addenda to the bid, answers to questions, and reminders are communicated to all bidders throughout the solicitation process.
 - Bidders are reminded that this is a federally funded project through a grant from the Department of Defense, Office of Economic Adjustment (OEA)- OEA standards apply. Please see Supplementary Conditions for the grant terms and conditions.
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Bidding Procedures and Information

- Sealed bids to be received by GWA no later than **April 26, 2021 at 3:00 p.m.**, Chamorro Standard Time
- Contract time for the project is 430 calendar days to substantial completion and 460 calendar days to final completion for the base bid.
- Addenda – Process
- Bonding/Bid Security
 - Amount 15%
 - Refer to Section 00200 – Instructions to bidders Article 8

Bidding Procedures and Information

- **Determination of Successful Bidder**
 - **The Contract will be awarded as follows:**
 1. On the lowest qualified Base Bid that is within the Project Budget.
 2. In the event that all Base Bids exceed the available budget, GWA will select the successful bidder based on an evaluation of the deductive bid alternates to be applied in the same order of priority as listed on the bid form until the project cost is within the budget.
- **Contract Award**
 - After determination of the successful bidder, the award may be made to the successful bidder on its Base Bid and any combination of its deductive alternate bid items for which the Owner determines funds will be available at the time of award.
 - If additional funding is obtained after the contract is executed, any or all deleted items may be restored via change order.
- Bidder is encouraged to read Article 19 of Section 00200 – Instruction to Bidders.

Summary of Work

Well Type	Well Name	Military Installation	Points of Contact
New	DOW-NCSB1	Naval Base Guam Barrigada	Naval Base Guam Public Works Officer
			Barrigada Communications Personnel
New	DOW-NCSF1	Naval Base Guam North Finegayan and Marine Corps Camp Blaz	Naval Base Guam Public Works Officer
New	DOW-NCSF2		Marine Corps Camp Blaz Public Works Officer
New	DOW-M1	OICC Marine Corps Marianas and Andersen Air Force Base	36 th Security Forces Squadron
New	DOW-NWF1		Anti-Terrorism/Force Protection
New	DOW-Y1		OICC Marine Corps Marianas
New	DOW-AAFB1	Andersen Air Force Base	36 th Security Forces Squadron
Rehabilitation	EX-8		Anti-Terrorism/Force Protection
Rehabilitation	NCS-3A	Naval Base Guam Barrigada	Naval Base Guam Public Works Officer

Summary of Work

Well Location Map



Summary of Work

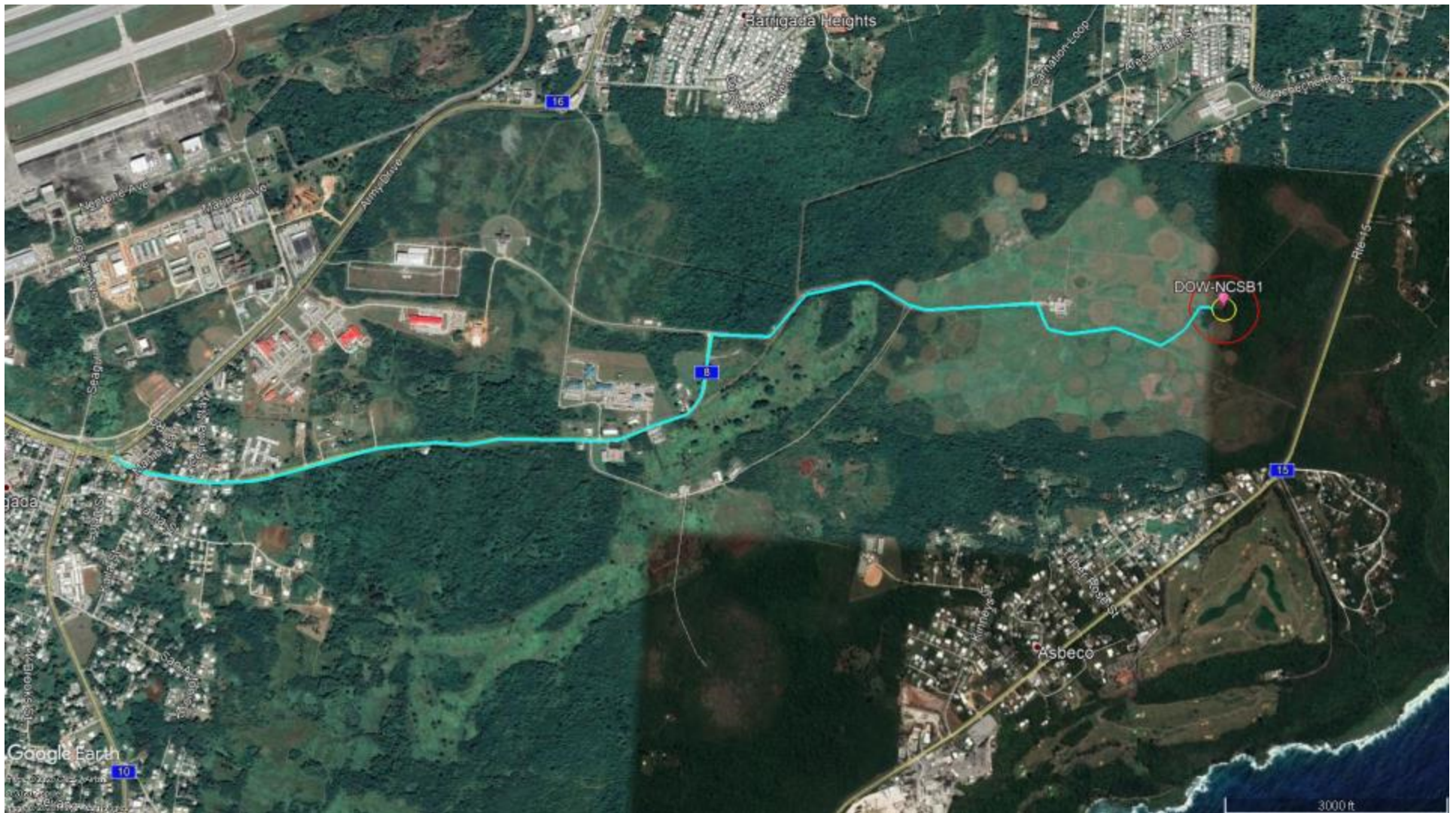
NCS-3A Location



- Relatively easy access

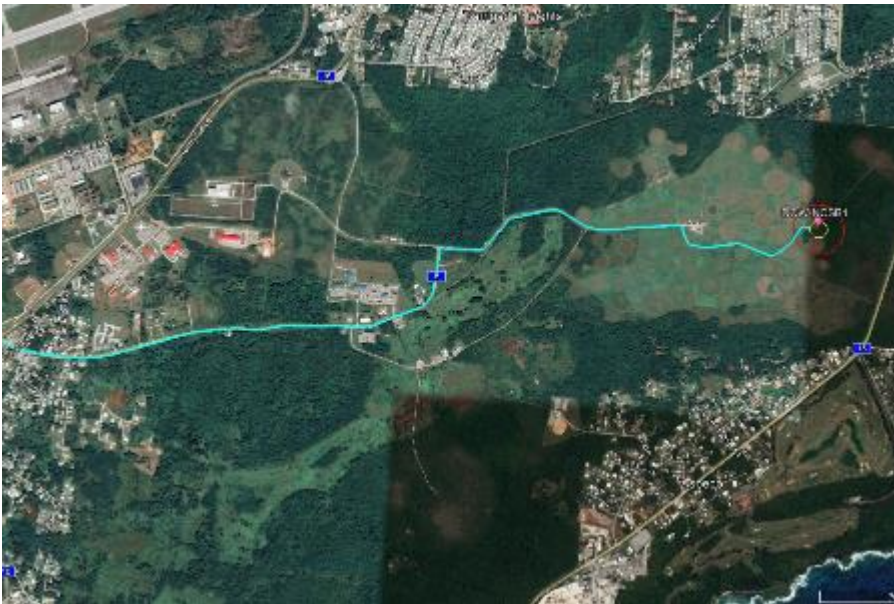
Summary of Work

NCSB1 Location



Summary of Work

NCSB1 Location



- Coordinate access with NCS Barrigada
- Communication ducts present (requires protection of cables and reinforcement of cable crossing; information in DWG detail sheets).
- Communication radio towers and satellites present
- Health Hazard - Metal and Radio Towers
- Health Hazard – Communication frequency waves
- All metal must be grounded

Summary of Work

NCSF1 Location



- Pass through security gate
- Access through unpaved road

Summary of Work

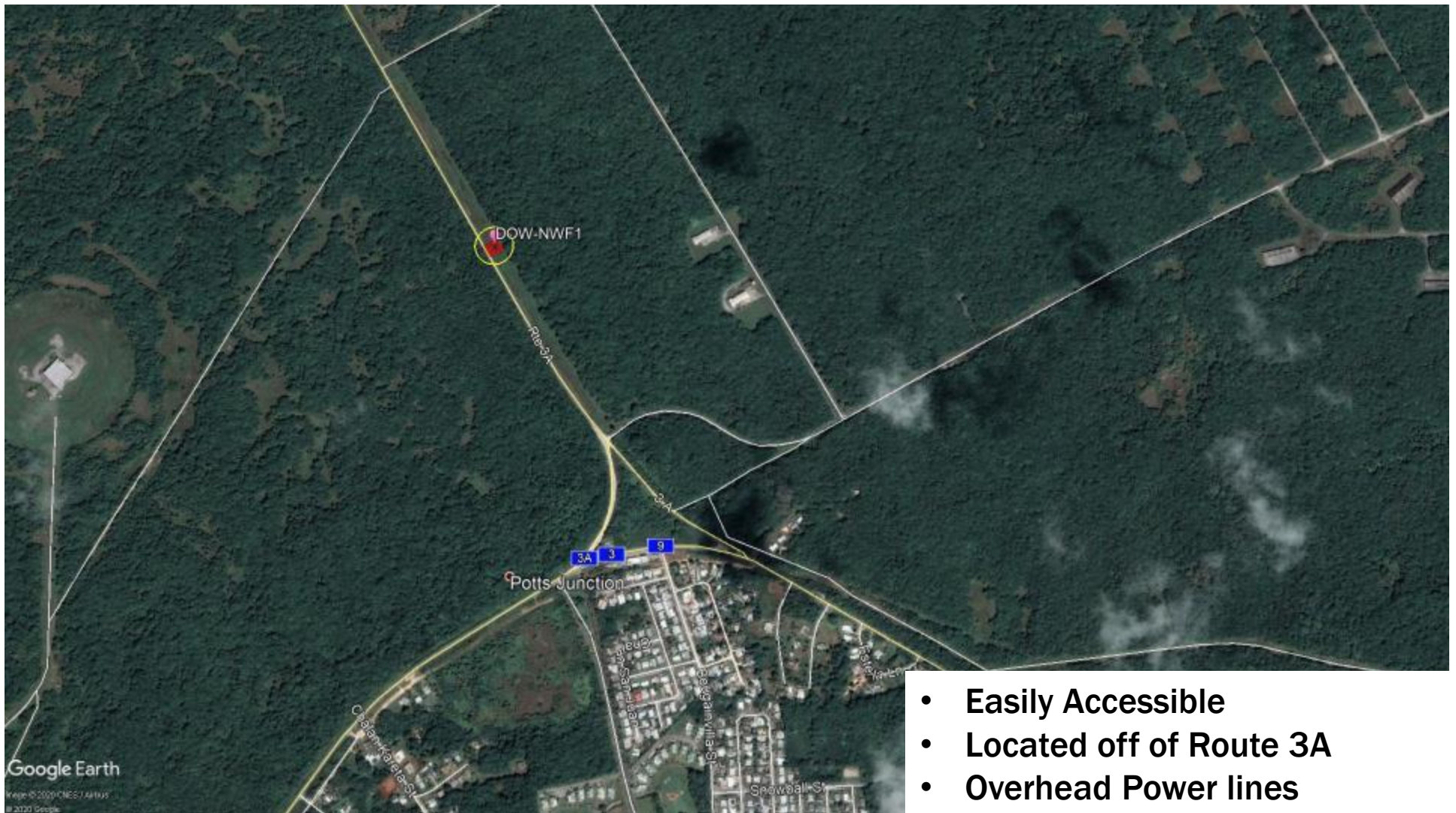
NCSF2 Location



- Pass through security gate
- Easily accessible

Summary of Work

DOW-NWF1 Location



- Easily Accessible
- Located off of Route 3A
- Overhead Power lines

Summary of Work

EX-8 Location



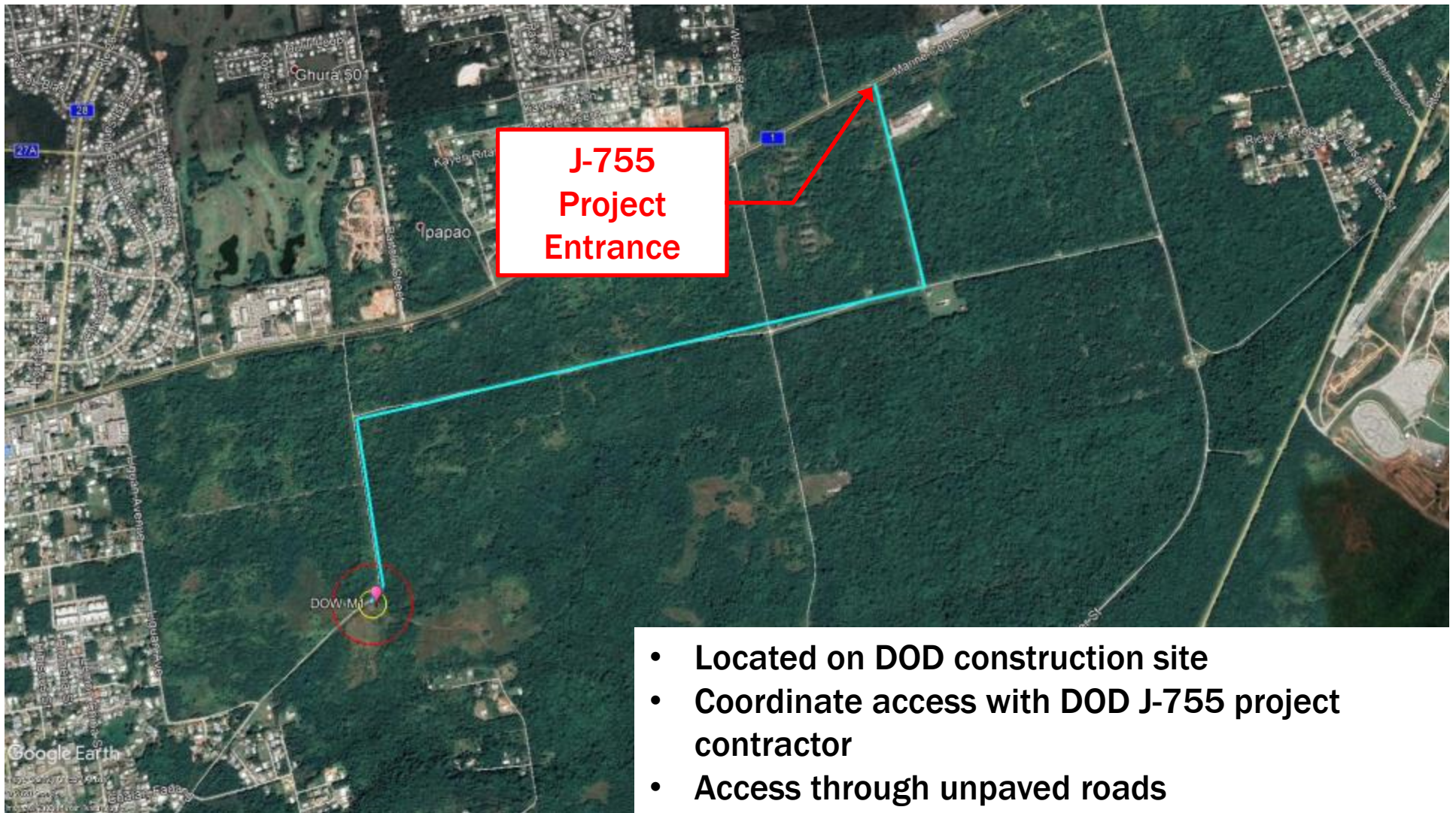
Google Earth

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Data © 2020

- Pass through security gate
- Access through paved and unpaved roads
- Moderate driving distance from security gate to well location.

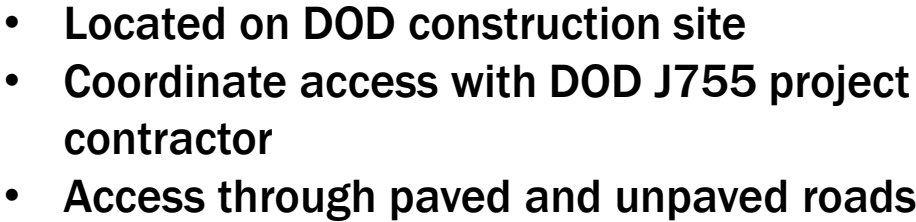
Summary of Work

DOW-M1 Location



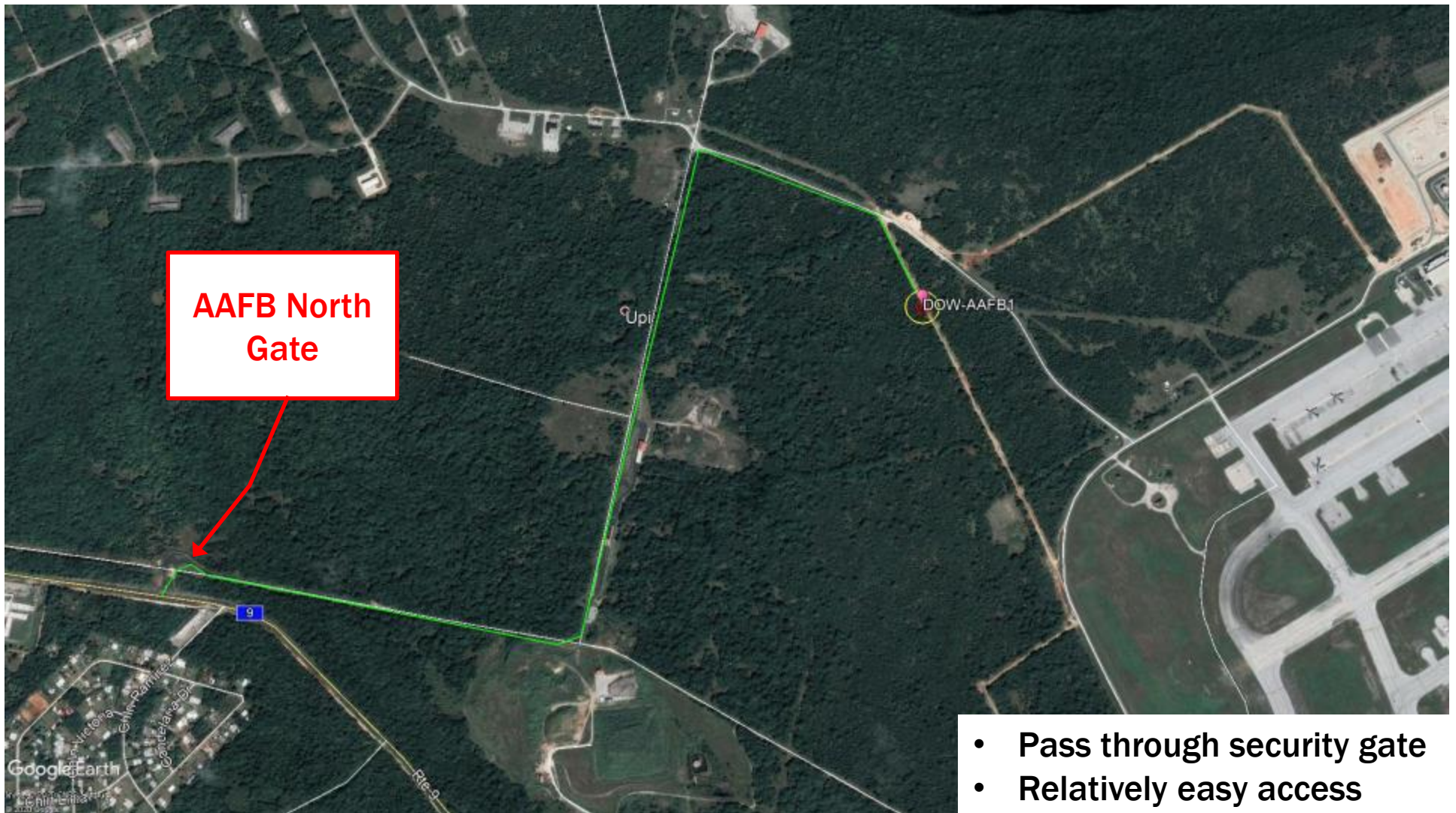
- Located on DOD construction site
- Coordinate access with DOD J-755 project contractor
- Access through unpaved roads

DOW-Y1 Location



Summary of Work


DOW-AAFB1 Location



- Pass through security gate
- Relatively easy access



Access Requirements

- **Base Access Required**
 - All project sites are on Department of Defense (DOD) property and will require all contractor personnel to obtain Defense Biometrics Identification System (DBIDS) cards or similar authorization to access the site
 - Contractor shall coordinate all site preparation and construction activities with the military Installation Commanding Officer and other points of contact. A list of the points of contact for each site is included in Section 01 11 00 Summary of Work.
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Temporary Construction Easements (TCE) and Munitions and Explosives of Concern/Unexploded Ordnance (MEC/UXO)

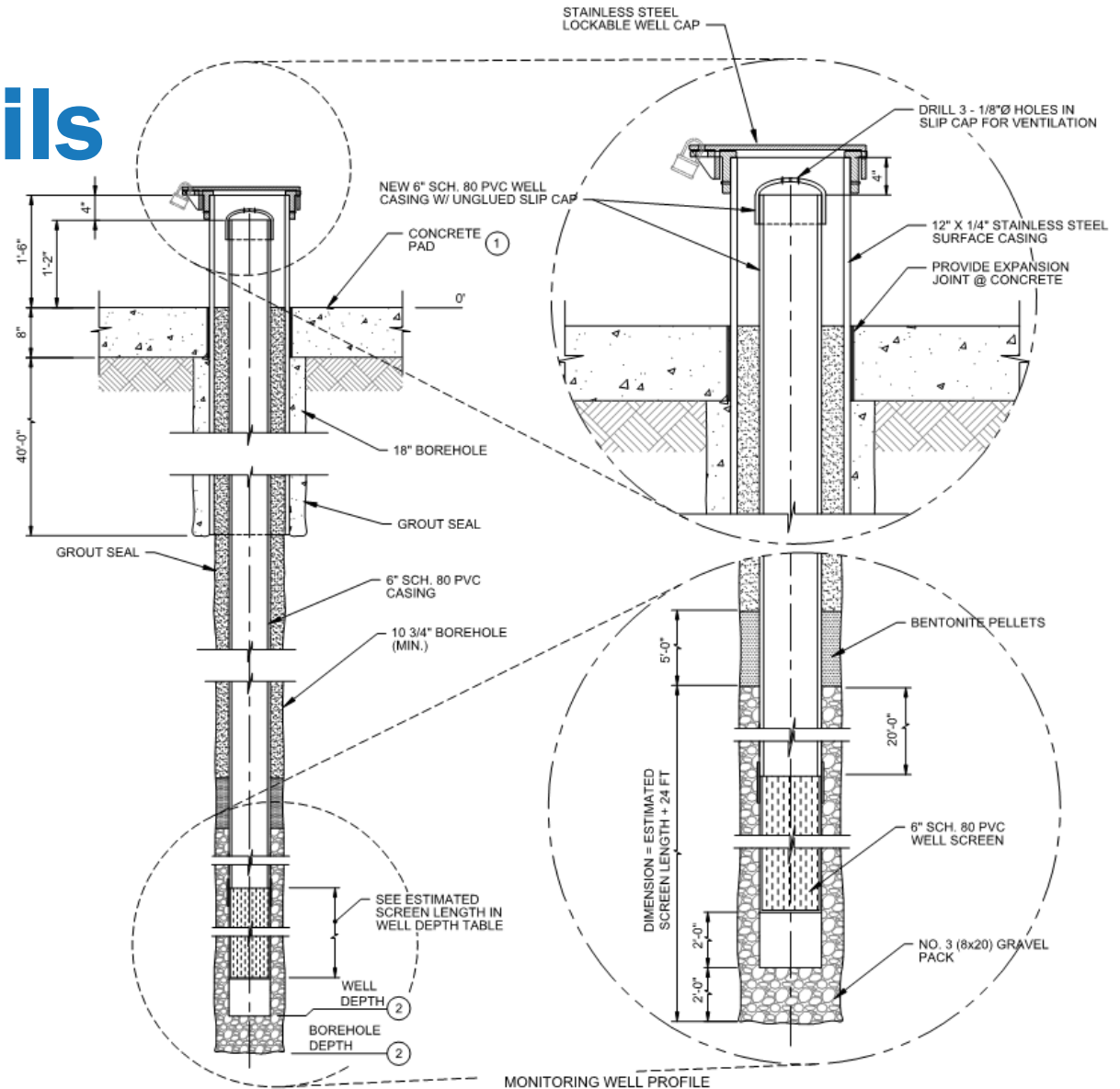
- For coordination requirements for each site, see Article 1.03, 01 11 00 - Summary of Work.
- GWA has been granted Temporary Construction Easements from the DoD for these wells to allow for construction at each site. Contractor must comply with the limits of these easements. These limits are shown in the TCEs, Appendix A.
- MEC requirements – Set forth in Specification Section 01 35 44. These requirements must comply with the requirements of TCE and essentially include:
 - MEC/UXO Plan submitted to DoD for review and approval.
 - Advanced notifications, and possibly consider alternate work schedules and other reasonable methods to minimize vehicular traffic exposure to MEC/UXO risks during excavation activities.
 - Appoint an **employee** who is qualified and authorized to supervise compliance with the MEC/UXO Plan.
 - We have been informed through email that MEC Experts do not need to be onsite

Site Work

- **Basic Work to be Completed at Each Site**
 - **New Wells** –includes the drilling of a borehole; installation of polyvinyl chloride (PVC) blank casing and well screen, gravel filter material and bentonite seal, and a cement grout surface seal; monitoring well development, construction of a concrete wellhead pad, the installation of a wellhead enclosure and site fencing.
 - **Rehabilitated Wells** –includes the removal of portions of the existing well casing and concrete foundations, installation of new PVC surface casing and blank casing, installation of gravel pack with grout and bentonite seals, construction of a concrete wellhead pad and the installation of a wellhead enclosure and site fencing (except DOW-NCSB1).
- **No water supply or disposal areas at sites. Contractor will need to bring in water and haul out waste**
- **Coordination by CM with USGS for downhole geophysics**

Typical Details

- Wells range from 540 to 750 feet deep
- Casing Dia. 6"
- Screen Length 260 to 297 ft
- Well Construction must meet Guam EPA requirements



Main Changes in Bid Documents from previous bid package sent out in June 2020:

- Project Duration has been extended.
- 10-3/4" diameter borehole is now a maximum and not a minimum.
- Section 33.21.09 – Monitoring Well Casing and Screen, Subsection– 3.02 now allows the Contractor to utilize and alternate method of centering the screen and the casing without the use of centralizers, however, the Contractor's proposed installation methods shall be submitted for review and approval by the Owner's Representative.
- Section 33.21.10 – Monitoring Well Gravel Pack, Bentonite, and Grout, Part 3 no longer strictly requires tremie methods for the placement of these materials, however, the Contractor's proposed placement methods to minimize bridging, shall be submitted for review and approval by the Owner's Representative.
- Section 33.21.10 – Monitoring Well Gravel Pack, Bentonite, and Grout, Part 4 now includes, "the Contractor shall include in its cost 10% additional gravel pack material over that calculated to allow for some unknown voids or irregularities in the formation."
- Section 33.21.13 – Monitoring Well Video and Geophysical Logging Assistance, Part 3 – Clarification is the approximate time to complete all geophysical logging activities is 24 hours. This is 8 hours/day over 3 days.

Bid Document - Appendices

- **Appendix A - Temporary Construction Easements (TCE)**
- **Appendix B and C - Well Videos and Photos**
- **Appendix D – Environmental Assessment**
- **Appendix E – Finding of No Significant Impact (FONSI)**
- **Appendix F – AF 103 Form (AAFB Access Form)**
- **Appendix G – FWS Mitigation Requirements**
 - **NCFS1/AAFB1 – Protect Orchids**
- **Appendix H – Guam Historic Resources Division Requirements (Section 106)**
- **Appendix I – Well Abandonment Procedures.**

Permitting

- NEPA & FONSI complete
- NOI not required
- Building Permit – Underway; pending GEPA, DoAG, Guam Contractor's Board.
 - Selected contractor will need to finalize permit with DPW.
 - Contractor responsible for building permit fee.
- DOD Form AF 103 – Work Clearance Request
- DZSP-21 Dig Permits
- Guam EPA – Contractor to submit solid waste disposal plan to GEPA.

Virtual Site Visit

- In Person Site Visits are not possible under the current pandemic conditions.
- GWA has prepared site access route videos with accompanying maps that were included on the USB drive with the bid documents.
- Bidders should review this information to determine the access requirements and any potential issues.
- Some items to be noted include:
 - Site access onto Bases
 - Vegetation Clearing at some well sites
 - Limit vegetation clearing as much as possible
 - Staging areas can be on common access areas and utility corridors
 - Coordination with concurrent projects on Base properties necessary
 - 3-week look ahead schedule of work activities will be important logistically

Project Schedule

Activity	Anticipated Key Dates
Advertisement to Bidders	March 26, 2021
Priced Bids Due	April 26, 2021
Contractor Anticipated Notice to Proceed	May 21, 2021
Substantial Completion	July 25, 2022
Final Completion – Project closeout	August 24, 2022

QUESTIONS?

