STATEMENT OF WORK (SOW)
HVAC REPLACEMENT
WEATHER SERVICE OFFICE (WSO) YAP
142060-26-0056

1.0 GENERAL

The Mission Statement of the National Weather Service (NWS) is to provide weather, hydrologic, and climate forecasts and warnings, and impact-based decision support services, for the United States, its territories, adjacent waters and ocean areas, for the protection of life and property and enhancement of the national economy. In support of this mission, the NWS Pacific Region (PR), Facilities Engineering Branch (FEB), provides facilities support and maintenance throughout the Pacific Region.

1.1 BACKGROUND

The existing air conditioning system servicing the WSO Yap main building is failing and at the end of its useful service life. The system is redundant and comprised of two 10-ton packaged air conditioning units or PCUs (Packaged Cooling Units).

1.2 SCOPE

The NWS seeks to replace the packaged air conditioning systems PCU-1 and PCU-2 and also install a compatible new control system.

1.3 OBJECTIVE

Replace PCU-1 and PCU-2 with new equipment to match the existing equipment, and install a new control system to control both units.

1.4 APPLICABLE DOCUMENTS

1.4.1 Compliance Documents

The Contractor shall comply with all local, state, and federal environmental, health, and safety regulations while conducting this work at the WSO Yap. In addition, the Contractor shall ensure that all work and products are in compliance with applicable certifications/codes/standards (e.g., AHRI, ANSI/ASHRAE, ASTM, EPA, NFPA, UL) and contract clauses.

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2.0 SPECIFIC REQUIREMENTS/TASKS

2.1 Replace Existing Packaged Units

Note: The OSP and COMM/PWR rooms air conditioning system must remain operational at all times. Any outage must be first coordinated and approved by the onsite Facility Technician, with notification made to the TPOC. To minimize cooling outages, it is recommended that the packaged units be replaced individually to allow cooling to be maintained by the other unit.

2.1.1 Existing packaged unit equipment information.

Note: See Figures 1 through 4 for current layout and photos of existing equipment.

- PCU-1, Carrier Model 50TC-D12A1Q5A1A0A0, Serial 1513G10251, 208/230V, 3ph, 60Hz, R-410A
- PCU-2, Carrier Model 50TC-D12A1Q5A1A0A0, Serial 1513G10252, 208/230V, 3ph, 60Hz, R-410A

2.1.2 Install two new 10-ton packaged cooling units in the same location and footprint as the removed equipment (as much as possible). The new units shall meet or exceed the specifications of the existing equipment.

2.1.3 Calibrate/balance the system to provide the appropriate air flow and space temperature throughout the WSO Yap building.

2.2 Install New HVAC Control System

Note: Outages shall be minimized and must be first coordinated and approved by the onsite Facility Technician, with notification made to the TPOC.

2.2.1 Existing Control System.

- Carrier

2.2.2 Install a new HVAC control system for the packaged cooling units. The control system shall operate using an Open Protocol framework to allow system and component flexibility, adaptability, interoperability, and ease of maintenance. The system shall have an “Occupancy Override” feature, to allow for lead/lag rotation, fail equipment/component monitoring, and proof of operation(s). System operation shall be as shown in Figure 5, “Sequence of Operation” and shall match or better current system.

2.2.3 Calibrate/balance the system to provide the appropriate air flow and space temperature within the WSO Yap building.

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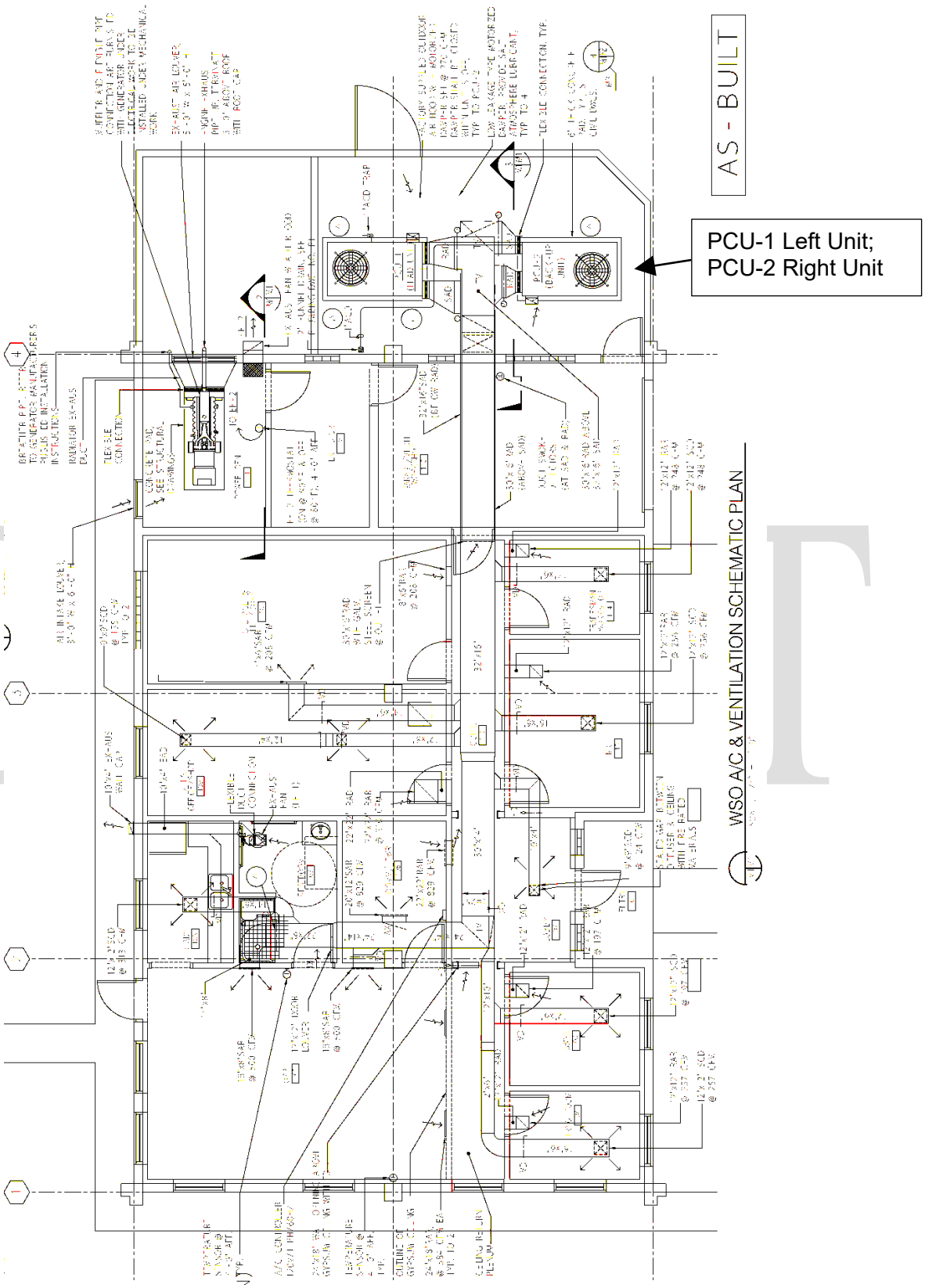

Figure 1 – WSO Yap HVAC Layout 2002

Figure 2 – Existing PCU-1 (Right) and PCU-2 (Left)

Figure 3 – Existing PCU-1

Figure 4 – Existing PCU-2

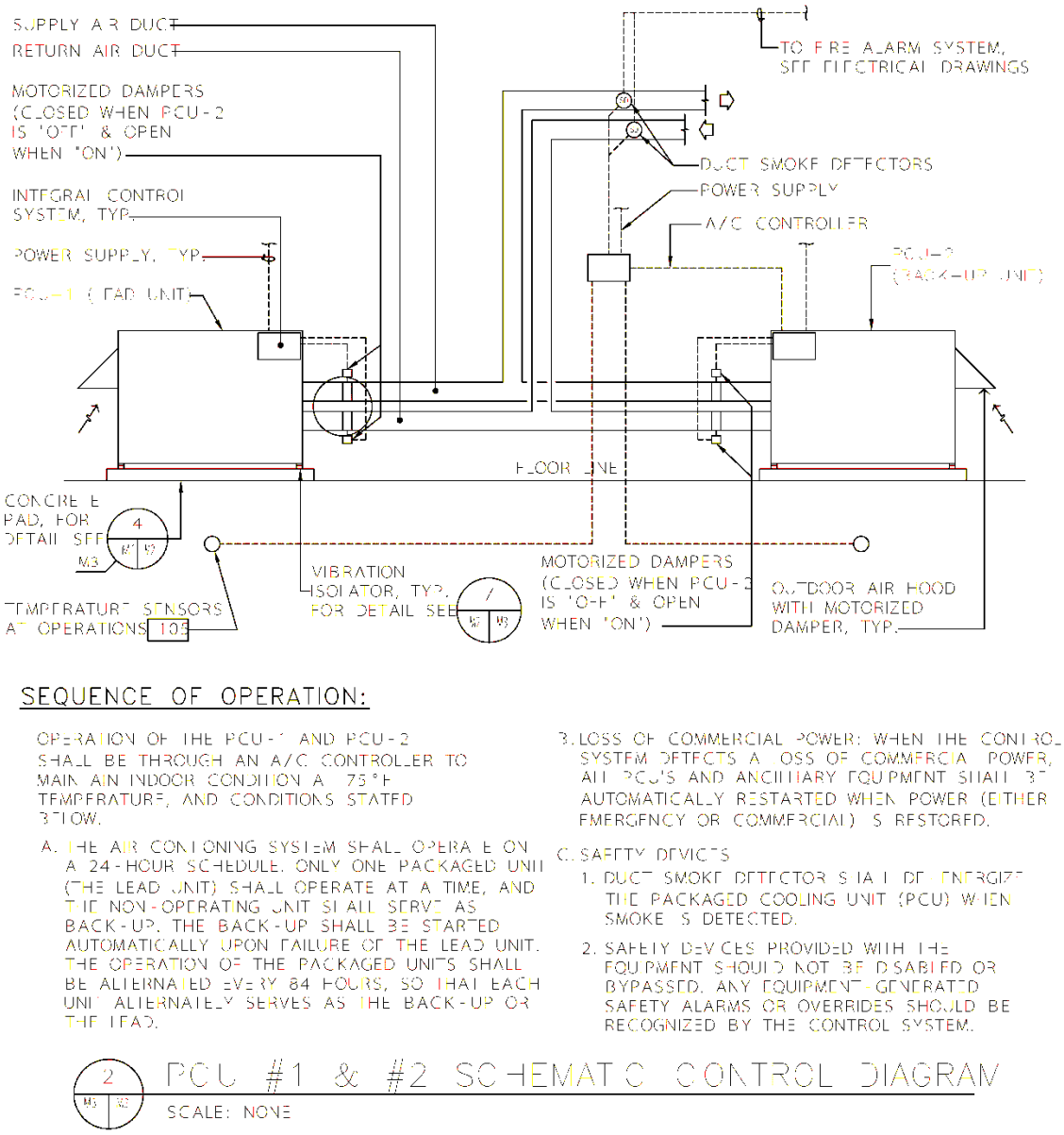

Figure 5 – HVAC Sequence of Operation

2.3 Submittals

a. Equipment make, model, specifications, certifications/approvals, detailed drawings, technical literature, etc. (prior to ordering)
b. Miscellaneous Material (e.g., detectors, switches) – Make, model, specifications, certifications, technical literature, etc. (prior to ordering)
c. Manufacturer's warranty. (prior to ordering)
d. Shop Drawings – Provide an installation drawing showing location/layout. (record drawing after accepted installation)
e. Field Commissioning Test Reports.

f. Operation and Maintenance (O&M) manuals, including list of authorized local service, maintenance, and service entities.
g. Contractor's 1-year warranty for installation.

2.4 Delivery, Storage and Handling

a. Delivery: Deliver materials/products to site in an undamaged condition and per contract requirements.
b. Storage: Store materials/products to provide protection from damage.
c. No forklift is available on-site.

2.5 Final Cleanup

The Contractor shall remove waste materials, debris, and equipment components from the work site. Dispose of everything in a legally and acceptable manner in accordance with local Environmental Protection Agency laws and guidelines.

3.0 OTHER APPLICABLE CONDITIONS

3.1 TEMPORARY CEASE WORK

During the contract period, there may be a time where extreme weather conditions warrant a cease work. The Contracting Officer is the only person who can direct the Contractor to cease work. The Contractor will be given a 48-hour notice to temporarily cease all work by the Contracting Officer. This notice can be via telephone call or email. The telephone call or email shall have a verbal or written response from the Contractor within 24 hours of the proposed cease work.

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3.2 SECURITY

The Contractor and/or workers will need to sign in as "visitors" on the Sign-In sheet for every work day that they are there. The Contractor shall be responsible for safeguarding all: Government equipment, information and property provided for Contractor use. At the close of each work period, Government facilities, equipment and materials shall be secured.

3.3 PERIOD OF PERFORMANCE

The period of performance will be 270 days from the date of award.

3.4 PLACE OF PERFORMANCE

The place of performance is at the WSO Yap located adjacent to the Yap International Airport, Yap Island, FSM, 96943.

3.5 HOURS OF OPERATION

Work hours shall be between the hours of 8:00am to 5:00pm Yap local time, Monday thru Friday, except on federal holidays and any other day off designated by Federal Statute, by Executive Order, by Presidential proclamation, or unless otherwise determined and agreed upon by the station Official-in-Charge (OIC) and Contractor (e.g., weekend work, work outside of normal hours). Federal holidays include:

New Year's Day	Juneteenth	Veteran’s Day
Martin Luther King's Birthday	Independence Day	Thanksgiving Day
President's Day	Labor Day	Christmas Day
Memorial Day	Columbus Day	

3.6 POST AWARD CONFERENCE

The Contractor shall attend a Post Award Conference no later than 10 business days after the date of award. The purpose of the Post Award Conference, which will be chaired by a TPOC, is to discuss technical and contracting objectives of this contract and review the Contractor's draft project plan. The Post Award Conference will be held via video-teleconference (e.g., Google Meet).

3.7 PROJECT SCHEDULE

The Contractor shall provide a draft Project Schedule at the Post Award Conference for Government review and comment. The Contractor shall provide a final Project Schedule to the TPOC no later than 10 business days after the Post Award Conference. The Contractor shall develop a Project Schedule that does not impede facility access nor compromise the security of the facility or safety of the site staff at the WSO Yap.

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4.0 CONTRACTOR FURNISHED PROPERTY

The Contractor shall furnish all materials, equipment and services necessary to fulfill the requirements of this contract.

5.0 TRAINING

Contractor shall provide training on the operation of the new systems. Provide two equipment manuals including warranty documentation.

6.0 CONTACT LIST

Facility Technician (on site)
TBD

NWS Facilities Management Division Chief, Technical Point-of-Contact (TPOC)
TBD

NWS PRH Senior Facilities Engineering Technician, TPOC
TBD

NWS WFO Guam Facilities Engineering Technician, TPOC
TBD

Contract Project Engineer, Non-Federal TPOC
TBD

END OF STATEMENT OF WORK