



**FILE
START**

Computer # _____

TRUST TERRITORY OF THE PACIFIC ISLANDS--ARCHIVES SURVEY FORM

Primary Branch, Department, Bureau, or Office producing materials:

R&D

Subgroup of the above:

LAN

Author/Title/Date of publication (if any) of specific materials:

Subject of materials: (See schedule in TTPI Files System Manual)

LAN-10

Brief description:

LAND CADASTER PROGRAM - YAP

Geographic area dealt with in materials:

TTPI at large:

Individual districts:

Individual governments:

Individual islands:

Other:

Span of years covered by materials: 1970 - 1973

Format of information:

Correspondence:

Reports:

Clippings:

Other: maps + pictures

Physical arrangement of materials: (How are they organized within the file?)

Geographically:

Chronologically:

By subjects:

By organization:

Other:

Physical location of materials: (Area where presently located)

Office: R&D

File cabinet number: 97813 Subgroup: LAN

Drawer number: 2

File folder number: 178.80.5

Estimated quantity of materials: 1 folder

Recorded by: *BN*

Date: 10/7/81

Disposition of originals: *Retain*

Microfilm roll No.: 5

Frame #:

Computer # _____

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LAN-10

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UNITED STATES DEPARTMENT OF INTERIOR
TRUST TERRITORY OF THE PACIFIC ISLANDS

Yap District
Western Caroline Islands
96943

OFFICE OF THE
DISTRICT ADMINISTRATOR

May 25, 1970
Serial: LCT0014

To: Chief, Lands and Surveys
From: Acting Senior Land Commissioner, Yap
Subject: Agreement for Construction of Concrete Survey Markers
for Micronesian Land Cadaster Program

Attached are two copies of said contract which have been executed in the district. Two men from Gagil Municipality have contracted to construct the markers. They plan to use sand from beaches in Gagil and will gather much of the aggregate from beach and stream areas. Since there normally is a sand and aggregate shortage on Yap, we hope that they will be able to keep in continuous production by using local supplies of these materials.

You will note that because of the "cottage industry" nature of the contractor's operation, certain changes have been made regarding the concrete mixture to be used and the time when the contractor will be given notice to proceed with construction. Because of the poor fresh water supply on Yap and a dependence upon sand and aggregate from the lagoon (dredged or beach sand; crushed coral aggregate), it is not realistic to expect the contractor to be able to use washed sand and aggregate. To compensate for this, a richer cement mixture is required. Currently, no #3 re-bar or portland cement is available on Yap. Notice to proceed will not be given until these materials are available.

The contractor has not done this type of work before. This is their first business venture. The Y.C.A. advisor helped them prepare their bid and will help them with their first few concrete pourings to see that they get started properly. We are hopeful that these two men are successful and will be able to continue to supply us with markers.

Would you please prevalidate \$3,500.00 to the Yap District Finance Office for construction of 2000 markers under this contract. Once funds have been prevalidated, the District Administrator will assign a contract number.

I will keep you informed when notice to proceed is given to the contractor and will advise you periodically of their progress constructing the survey markers.

J. Michael Killian
J. Michael Killian

Attachment: Agreement (2 copies)

cc: Director, Resources and Development
Director, Finance
District Administrator

178.80.5

TRUST TERRITORY OF THE PACIFIC ISLANDS
Office of the High Commissioner
Saipan, Mariana Islands



TT CONTRACT NO. _____

AGREEMENT
FOR
CONSTRUCTION OF CONCRETE SURVEY MARKERS

1 THIS AGREEMENT, made this third day of April, 1970, by and
2 between the GOVERNMENT OF THE TRUST TERRITORY OF THE PACIFIC ISLANDS,
3 hereinafter referred to as the "Government," represented by Leonard
4 Q. Aguigui, District Administrator and special Contracting
5 Officer for the High Commissioner of the Trust Territory of the
6 Pacific Islands, and Tarmad and Ingin, Wonayah, Gagil, Yap District,
7 ~~XX~~
8 ~~XX~~
9 ~~XX~~
10 hereinafter referred to as the "Contractor."

11 In consideration of the mutual covenants and promises contained
12 herein the parties agree as follows:

13 ARTICLE 1. SCOPE OF WORK

14 The contractor shall make and deliver to the Government at the
15 location specified herein two thousand (2,000) concrete survey
16 markers (concrete monuments) for use in the Trust Territory Land
17 Cadaster Program. In addition, at the Government's option, the
18 contractor shall make and deliver to the Government lots of one
19 thousand (1,000) concrete survey markers. All concrete survey
20 markers shall be made in accordance with the contract drawings and
21 specifications attached hereto and marked Exhibit A and consisting
22 of four (4) pages.

23 The contractor shall furnish all materials, supplies, equipment,
24 tools, transportation, labor, insurance, and any other costs
25 necessary to produce the markers.

ARTICLE 2. PAYMENT AND PAYMENT SCHEDULE

The Government agrees to pay the contractor the total sum of three thousand five hundred dollars (\$3500.00) for the 2,000 concrete survey markers according to the following schedule:

- \$1,150.00 upon execution of this agreement.
- \$1,150.00 upon delivery and acceptance by the Government of 1,000 markers.
- \$1,200.00 upon the delivery and acceptance by the Government of the remaining 1,000 markers.

In the event the Government exercises its option for any additional lot of 1,000 concrete survey markers, it shall pay the contractor the total sum of one thousand six hundred and fifty dollars (\$1650.00) for each lot of 1,000 markers according to the following schedule:

- \$550.00 upon the written notice to proceed by the Government to the contractor for the additional lot(s).
- \$550.00 upon the delivery and acceptance by the Government of 500 markers.
- \$550.00 upon the delivery and acceptance by the Government of the remaining 500 markers.

All payments shall be made at the District Finance Office, Office of the District Administrator.

ARTICLE 3. TIME FOR COMPLETION

The parties agree that time is of the essence for this Agreement. The Government shall provide the Contractor with a written notice to proceed and at least 1,000 markers shall be delivered to the Government no later than sixty (60) days from the date of the Notice to Proceed. The balance of the 2,000 markers shall be delivered within one hundred and twenty (120) days from the date of the Notice to Proceed.

ARTICLE 4. INSPECTION, ACCEPTANCE AND DELIVERY OF MARKERS

The Government shall have the right to inspect the markers being made and may reject any markers which are not made in accordance with

1 Exhibit A. Before delivery of any markers, the contractor will notify
2 the Contracting Officer's Representative who will inspect the markers.
3 Delivery will not be made until the Government has accepted the markers.
4 Upon acceptance, the contractor shall deliver the markers to the office
5 of the Senior Land Commissioner, in the absence of such an official, to
6 the District Land Management Office.

7 ARTICLE 5. DEFAULT BY CONTRACTOR

8 If the contractor fails to produce the number of markers within
9 the time for completion as specified in Article 3, the Government may
10 terminate this contract and the contractor shall reimburse the
11 Government for any overpayment. For the purposes of this Article and
12 Article 6, if the Agreement is terminated the contractor shall only be
13 entitled to be paid for the markers accepted and delivered. The unit
14 price of the markers shall be computed (by dividing the total sum to
15 be paid the contractor by the number of markers contracted for) and an
16 adjustment shall be made.

17 ARTICLE 6. TERMINATION FOR CONVENIENCE OF THE GOVERNMENT

18 The performance of work under this contract may be terminated by
19 the Government in accordance with this clause in whole, or from time to
20 time in part, whenever the Contracting Officer shall determine that
21 such termination is in the best interest of the Government. Any such
22 termination shall be effected by delivery to the Contractor of a Notice
23 of Termination specifying the extent to which performance of work under
24 the contract is terminated, and the date upon which such termination
25 becomes effective.

26 ARTICLE 7. DESIGNATION OF CONTRACTING OFFICER'S REPRESENTATIVE

27 For the purposes of this contract, the Senior Land Commissioner,
28 and in the absence of such, the District Land Management Officer is
29 hereby designated as the Contracting Officer's Representative. The
30 contractor shall deal exclusively with this representative except as
31 otherwise indicated herein.

32 ARTICLE 8. INTERPRETATION

33 The language in all parts of this contract shall be in all cases

construed simply, according to its fair meaning, and not strictly for or against the Government or Contractor. This contract shall be governed by the laws of the Trust Territory of the Pacific Islands.

If this Agreement has been translated in the vernacular, the English version shall prevail in any dispute as to the meaning.

ARTICLE 9. AGREEMENT COMPLETE

It is agreed that this contract contains all of the terms, conditions, and agreements between the parties hereto relating in any manner to the herein described conditions add that no prior or collateral agreement or understanding pertaining to the same shall be valid or of any force or effect, and that the terms, conditions and provisions of contract cannot be altered, changed or modified except in writing signed by the parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused this contract to be executed as of the year and day first above mentioned.

THE GOVERNMENT OF THE TRUST TERRITORY OF THE PACIFIC ISLANDS

APPROVED AS TO FORM:

Robert A. Hoff
Attorney General

By: *Joseph P. Quinn*
District Administrator and
Special Contracting Officer for the
High Commissioner of the Trust Territory
of the Pacific Islands

Date: *May 25, 1970*

Date: Feb. 9, 1970

CONTRACTOR

APPROVED FOR THE DIVISION OF LANDS AND SURVEYS

Paul D. Dennis
Chief, Lands & Surveys

By:

Tammad

(Name) Tammad

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(Title) Inpin

Date: Feb. 10, 1970

ACKNOWLEDGMENT

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Trust Territory of the) ss
Pacific Islands)

On this third day of April, 1970, before me appeared the
above named CONTRACTOR, known to me as the person whose name is
subscribed to the within instrument and acknowledge that he executed
the same for the purposes therein set forth as his free act and deed
and that he was duly authorized to act for and bind himself in the
foregoing agreement.

J. Michael Kilbain
Signature

EXHIBIT "A"

SPECIFICATIONS FOR CONCRETE
SURVEY MARKERS (CONCRETE MONUMENTS)
MICRONESIAN LAND CADASTRE PROGRAM

1 SECTION 1. GENERAL

2 It shall be the contractor's responsibility to fully understand
3 the following drawings and specifications.

4 SECTION 2. MATERIALS

5 1. Cement shall be Portland Cement of a standard brand
6 conforming to the standard specifications and tests for Portland Cement.

7 2. Reinforcing shall be 20" long, number 3 (3/8" diameter)
8 deformed bars of intermediate grade. Two are required for each pour.

9 3. Aggregate shall be of the highest equal quality obtainable
10 in the district; shall be of a clean nature; and shall have a maximum
11 size of 3/4" in diameter. Any and all salt residue shall be removed
12 from the aggregate by washing.

13 4. Sand shall be of a clean nature and of equal quality. Any and
14 all salt residue shall be removed from the sand by washing.

15 5. Water used in mixing the concrete shall be fresh water.

16 SECTION 3. FORMS

17 All monuments shall be made with a standard form to produce a
18 product in accordance with the contract drawings.

19 The forms shall be heavily oiled before each pouring to ensure
20 easy removal of the concrete monument from the form after curing.

21 Stripping of the monument should not be accomplished less than
22 one (1) day (24 hours) after pouring. The monuments shall be kept
23 moist at all times for at least 10 days after the pour.

24 SECTION 4. METHODS AND PROCEDURES

25 The standard forms shall be initially oiled and kept oiled in
26 accordance with Section 3 of these Specifications.

27 Initially approximately one half of the form shall be filled
28 with concrete of a nature described under Section 5 of these
29 Specifications. This shall be carefully packed and tamped to remove
30 all voids possible.

31 Two number 3 (3/8" diameter), 20" long deformed reinforcing bars
32 shall then be inserted into the one-half pour at 180° separation. These
33 shall be approximately one (1) inch in from the sides of the form and
34 shall be parallel to the sides of the form.

1 The remaining one-half of the pour shall then be placed and tamped to
2 remove all possible voids.

3 The pour should be allowed to cure in accordance with Section 3.

4 SECTION 5. CONCRETE

5 Concrete for all pours shall have a compressive strength of 3000
6 PSI at 28 days. The concrete shall have a maximum of four (4) inch
7 slump and shall be mixed of sand, aggregate and cement as specified in
8 Section 2.

9 The mixture shall not exceed 7 sacks of cement per cubic yard.

10 The Government shall be consulted and his recommendations followed
11 as to the exact mixture which should be used depending on the various
12 aggregates available and conditions in the district.

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EXHIBIT "A"

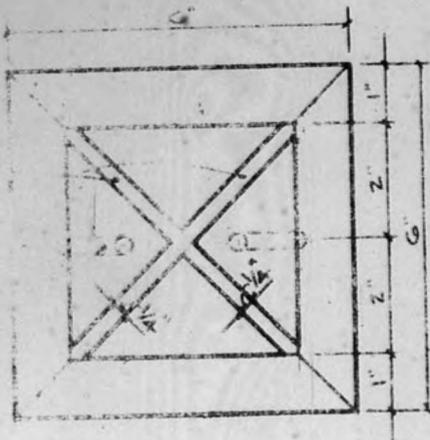
CONTRACT DRAWINGS
SURVEY MARKERS
(CONCRETE MONUMENTS)
FOR
MICRONESIAN LAND CADASTRE PROGRAM



Concrete Monument
See specifications
for concrete mixture

EXHIBIT "A"

ISOMETRIC VIEW
No Scale



TOP VIEW

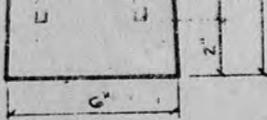
Scale: $\frac{1}{4}'' = 1''$



SIDE VIEW

Scale: $\frac{1}{4}'' = 1''$

EXHIBIT "A"



SIDE VIEW

Scale: 1/4" = 1'

Sheet 2 of 2

TRUST TERRITORY OF THE PACIFIC ISLANDS
Office of the District Administrator
Yap, Western Caroline Islands

April 3, 1970

Mr. Tammad and Mr. Ingin
Womayan Village,
Oagil, Yap District

Dear Sirs:

As per the discussion today between you and the Contracting Officer's Representative, Mr. Michael Kilian, and pursuant to Article 9 of the Agreement for Construction of Concrete Survey Markers, signed by you this day, the following changes are added and incorporated into said agreement:

1. Written notice to proceed from the Government to the Contractor as mentioned in Article 3 will not be given until such time as reinforcement steel is available for purchase at the District Supply Office, Yap; and
2. All markers will be kept shaded by a cover of coconut leaves until the time of delivery so that they are properly cured, and, because of the scarcity of water, they need not be watered; and
3. Sand may be obtained from beaches and need not be washed but must be screened to clean out non-sand materials; and
4. Aggregate should be approximately 1/4 inch to 1 inch in diameter and may be obtained from beaches and other village areas and must be free of soil but need not be washed with fresh water; and
5. If washed sand and/or aggregate is used, a 20-marker batch of concrete shall contain at least 2 1/2 bags of portland cement; and
6. The design submitted with you March 18, 1970 bid proposal for constructing concrete forms is acceptable to the Government.

Agreed this third (3rd) day of April, 1970.

Leonard G. Aguilera
Leonard G. Aguilera
Special Contracting Officer
for the High Commissioner,
Trust Territory of the
Pacific Islands
Tammad
Tammad

Ingin
Ingin

We, the undersigned witnesses, hereby certify that Tammad and Ingin's signatures were subscribed in our presence this third day of April, 1970 and that the subscribers of the above signatures are personally known to us and that we saw them affix their signatures.

J. Michael Kilian
J. Michael Kilian
Fran DeGarin
Fran DeGarin

1 ARTICLE 2. PAYMENT AND PAYMENT SCHEDULE

2 The Government agrees to pay the contractor the total sum of Three thousand
3 five hundred dollars (\$3500.00) for the 2,000 concrete survey markers
4 according to the following schedule:

5 \$1,150.00 upon execution of this agreement.
6 \$1,150.00 upon delivery and acceptance by the
7 Government of 1,000 markers.
8 \$1,200.00 upon the delivery and acceptance by
9 the Government of the remaining 1,000
10 markers.

11 In the event the Government exercises its option for any
12 additional lot of 1,000 concrete survey markers, it shall pay the
13 contractor the total sum of one thousand six hundred and fifty dollars (\$1650.00) for each
14 lot of 1,000 markers according to the following schedule:

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16 the Government to the contractor for
17 the additional lot(s).
18 \$550.00 upon the delivery and acceptance by
19 the Government of 500 markers.
20 \$550.00 upon the delivery and acceptance by the
21 Government of the remaining 500 markers.

22 All payments shall be made at the District Finance Office, Office
23 of the District Administrator.

24 ARTICLE 3. TIME FOR COMPLETION

25 The parties agree that time is of the essence for this Agreement.
26 The Government shall provide the Contractor with a written notice to
27 proceed and at least 1,000 markers shall be delivered to the Govern-
28 ment no later than sixty (60) days from the date of the Notice to
29 Proceed. The balance of the 2,000 markers shall be delivered within
30 one hundred and twenty (120) days from the date of the Notice to Proceed.

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2 the Contracting Officer's Representative who will inspect the markers.
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12 Article 6, if the Agreement is terminated the contractor shall only be
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14 price of the markers shall be computed (by dividing the total sum to
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16 adjustment shall be made.

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18 The performance of work under this contract may be terminated by
19 the Government in accordance with this clause in whole, or from time to
20 time in part, whenever the Contracting Officer shall determine that
21 such termination is in the best interest of the Government. Any such
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33 The language in all parts of this contract shall be in all cases

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ARTICLE 9. AGREEMENT COMPLETE

It is agreed that this contract contains all of the terms, conditions, and agreements between the parties hereto relating in any manner to the herein described conditions add that no prior or collateral agreement or understanding pertaining to the same shall be valid or of any force or effect, and that the terms, conditions and provisions of contract cannot be altered, changed or modified except in writing signed by the parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused this contract to be executed as of the year and day first above mentioned.

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THE GOVERNMENT OF THE TRUST TERRITORY OF THE PACIFIC ISLANDS

APPROVED AS TO FORM:

Robert A. Hoff
Attorney General

By: [Signature]
District Administrator and
Special Contracting Officer for the
High Commissioner of the Trust Territory
of the Pacific Islands

Date: May 25, 1970

Date: Feb. 9, 1970

CONTRACTOR

APPROVED FOR THE DIVISION OF LANDS AND SURVEYS
Paul D. Dennis
Chief, Lands & Surveys

By: Tammad
~~(Name)~~ Tammad
1 #11
~~(Name)~~ Ingin

Date: Feb. 10, 1970

ACKNOWLEDGMENT

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Trust Territory of the) ss
Pacific Islands)

On this third day of April, 1970, before me appeared the
above named CONTRACTOR, known to me as the person whose name is
subscribed to the within instrument and acknowledge that he executed
the same for the purposes therein set forth as his free act and deed
and that he was duly authorized to act for and bind himself in the
foregoing agreement.

J. Michael Kilian
Signature



EXHIBIT "A"

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9 3. Aggregate shall be of the highest equal quality obtainable
10 in the district; shall be of a clean nature; and shall have a maximum
11 size of 3/4" in diameter. Any and all salt residue shall be removed
12 from the aggregate by washing.

13 4. Sand shall be of a clean nature and of equal quality. Any and
14 all salt residue shall be removed from the sand by washing.

15 5. Water used in mixing the concrete shall be fresh water.

16 SECTION 3. FORMS

17 All monuments shall be made with a standard form to produce a
18 product in accordance with the contract drawings.

19 The forms shall be heavily oiled before each pouring to ensure
20 easy removal of the concrete monument from the form after curing.

21 Stripping of the monument should not be accomplished less than
22 one (1) day (24 hours) after pouring. The monuments shall be kept
23 moist at all times for at least 10 days after the pour.

24 SECTION 4. METHODS AND PROCEDURES

25 The standard forms shall be initially oiled and kept oiled in
26 accordance with Section 3 of these Specifications.

27 Initially approximately one half of the form shall be filled
28 with concrete of a nature described under Section 5 of these
29 Specifications. This shall be carefully packed and tamped to remove
30 all voids possible.

31 Two number 3 (3/8" diameter), 20" long deformed reinforcing bars
32 shall then be inserted into the one-half pour at 180° separation. These
33 shall be approximately one (1) inch in from the sides of the form and
34 shall be parallel to the sides of the form.

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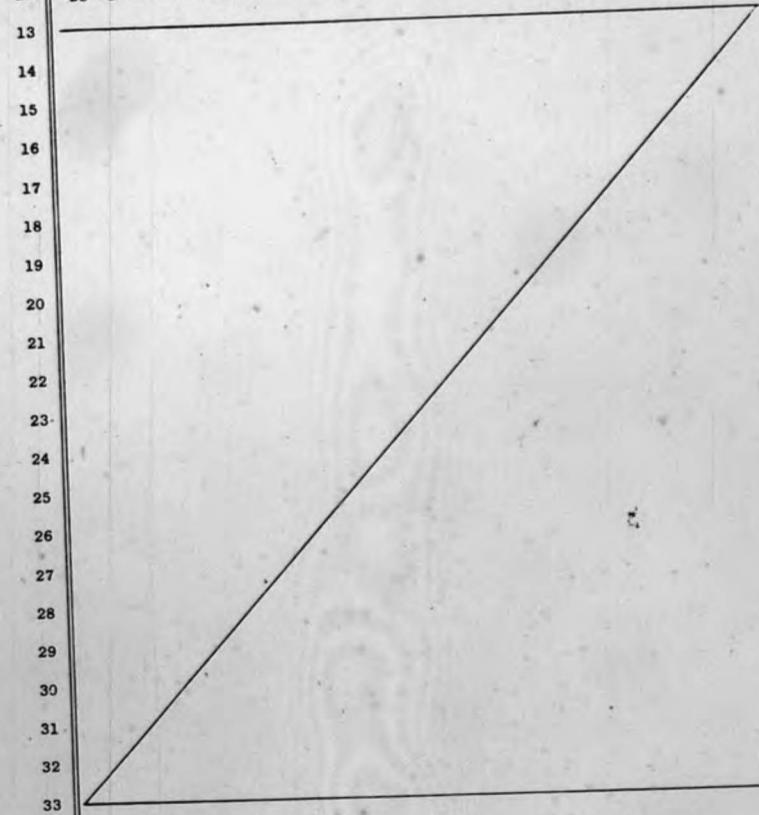
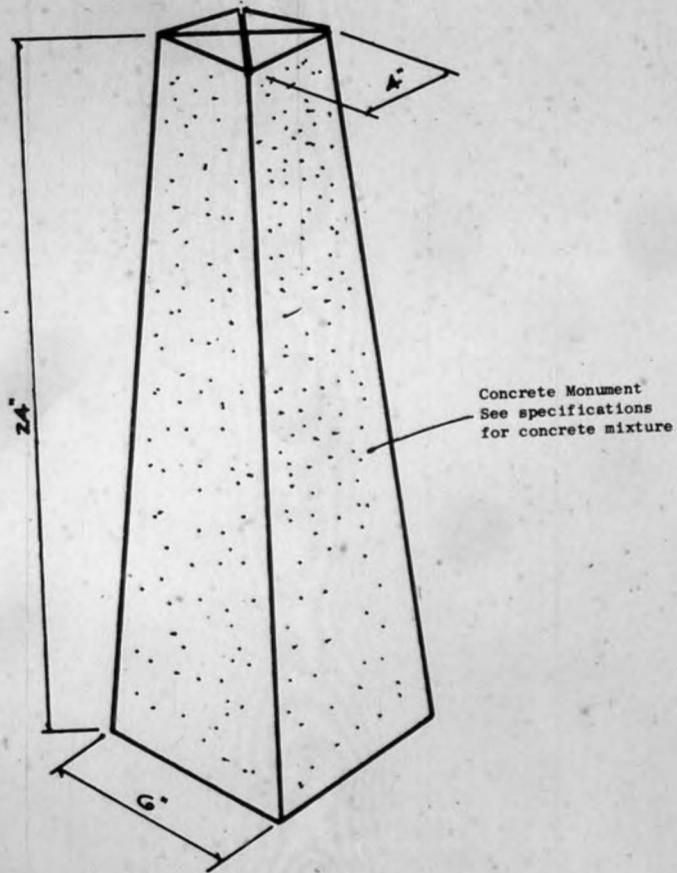
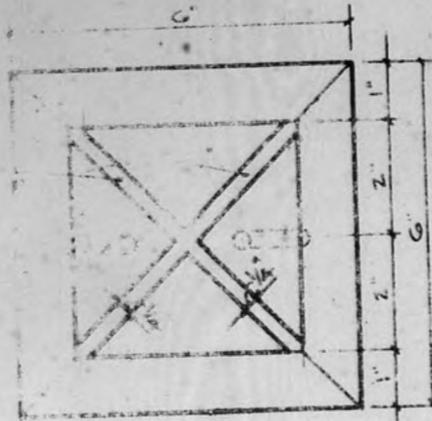


EXHIBIT "A"

CONTRACT DRAWINGS
SURVEY MARKERS
(CONCRETE MONUMENTS)
FOR
MICRONESIAN LAND CADASTRE PROGRAM

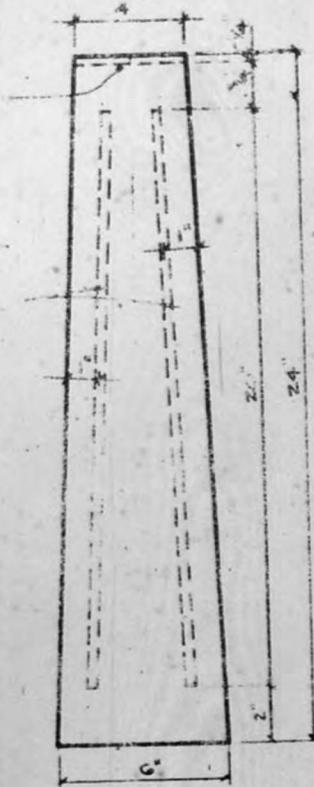


ISOMETRIC VIEW
No Scale



TOP VIEW

Scale: 1" = 1"



SIDE VIEW

Scale: 1" = 1"

EXHIBIT "A"



SIDE VIEW
Scale: 1/4" = 1"

TRUST TERRITORY OF THE PACIFIC ISLANDS
Office of the District Administrator
Yap, Western Caroline Islands

April 3, 1970

Mr. Tammad and Mr. Ingin
Womayan Village,
Cagil, Yap District

Dear Sirs:

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4. Aggregate should be approximately 3/4 inch to 1 inch in diameter and may be obtained from beaches and other village areas and must be free of soil but need not be washed with fresh water; and
5. If unwashed sand and/or aggregate is used, a 20-marker batch of concrete shall contain at least 2 1/2 bags of portland cement; and
6. The design submitted with you March 18, 1970 bid proposal for constructing concrete forms is acceptable to the Government.

Agreed this third (3rd) day of April, 1970.

Leonard C. Aguilera
Leonard C. Aguilera
Special Contracting Officer
for the High Commissioner,
Trust Territory of the
Pacific Islands

Tammad
Tammad

Ingin
Ingin

We, the undersigned witnesses, hereby certify that Tammad and Ingin's signatures were subscribed in our presence this third day of April, 1970 and that the subscribers of the above signatures are personally known to us and that we saw them affix their signatures.

J. Michael Kilian
J. Michael Kilian

Fran DeAngelo
Fran DeAngelo

Edward J. ...
Edward J. ...
Special Contracting Officer
for the High Commissioner,
Trust Territory of the
Pacific Islands

Tam m ad
Tammad

Tammad

Ingin
Ingin

We, the undersigned witnesses, hereby certify that Tammad and Ingin's signatures were subscribed in our presence this third day of April, 1970 and that the subscribers of the above signatures are personally known to us and that we saw them affix their signatures.

J. Michael Kilian
J. Michael Kilian

Fran ...
Fran ...

May 25, 1970
Serial: JCT/0011

To: Chief, Lands and Surveys
From: Acting Senior Land Commissioner, Yap
Subject: Agreement for Construction of Concrete Survey Markers
for Micronesian Land Cadaster Program

Attached are two copies of said contract which have been executed in the district. The men from Gagil Municipality have contracted to construct the markers. They plan to use sand from beaches in Gagil and will gather much of the aggregate from beach and stream areas. Since there normally is a sand and aggregate shortage on Yap, we hope that they will be able to keep in continuous production by using local supplies of these materials.

You will note that because of the "cottage industry" nature of the contractor's operation, certain changes have been made regarding the concrete mixture to be used and the time when the contractor will be given notice to proceed with construction. Because of the poor fresh water supply on Yap and a dependence upon sand and aggregate from the lagoon (dredged or beach sand; crushed coral aggregate), it is not realistic to expect the contractor to be able to use washed sand and aggregate. To compensate for this, a richer cement mixture is required. Currently, no #3 re-bar or portland cement is available on Yap. Notice to proceed will not be given until these materials are available.

The contractor has not done this type of work before. This is their first business venture. The Y.C.A. advisor helped them prepare their bid and will help them with their first few concrete pourings to see that they get started properly. We are hopeful that these two men are successful and will be able to continue to supply us with markers.

Would you please prevalidate \$3,500.00 to the Yap District Finance Office for construction of 2000 markers under this contract. Once funds have been prevalidated, the District Administrator will assign a contract number.

I will keep you informed when notice to proceed is given to the contractor and will advise you periodically of their progress constructing the survey markers.

J. Michael Kilian

Attachment: Agreement (2 copies)

cc: Director, Resources and Development
District Administrator

I will keep you informed when notice to proceed is given to the contractor and will advise you periodically of their progress constructing the survey markers.

J. Michael Kilian

Attachment: Agreement (2 copies)

cc: Director, Resources and Development
District Engineer
District Administrator

THE RISE AND DECLINE
OF THE
YAP LAND COMMISSION

A Paper
on
The Yap Land Cadaster Program from September 1970 to March 1973



by

HAROLD O. TEMME
Supervisory Cadastral Surveyor
Yap District
Trust Territory of the Pacific Islands

August 1973

CONTENTS

INTRODUCTION	1
GENERAL HISTORY AND DESCRIPTION OF MICRONESIA AND YAP ISLAND	2
PAST HISTORY OF LAND SYSTEM IN YAP	4
THE BASIO CONTROL	4
THE FIELD WORK	9
THE REGISTRATION TEAMS	9
MONUMENTATION	11
THE SURVEY CREW	13
EQUIPMENT	15
THE OFFICE	16
COMPUTATION	16
DRAFTING	16
FILING	17
THE STRUCTURE	18
CONCLUSIONS AND SUGGESTIONS	20
ADDITIONAL PHOTOS	22
BIBLIOGRAPHY	

All photos by author except where noted

INTRODUCTION

Much has been written about the trials and tribulations of a Yap Island without (or with) the surveyed property boundaries of individual's land and the need of a Land Commission program. However, very little has been recorded concerning the previous (if any) surveying on Yap, it's established control, and most specific, the 2½ years of land cadaster surveying during 1970 to 1973. During this time I was fortunate enough to be assigned as the supervisory cadastral surveyor of Yap district and in such capacity was most able to see the initial beginning and end of this cadaster trial period. This writing, therefore, is an attempt to record that space of time, and what went on, and what was accomplished before that program in March 1973 came to it's end.

Perhaps it is well to define once again the term "cadastral surveying". Cadastral surveys create, establish, mark, and define boundaries of tracts of land. They identify the parcels of land on the ground and afford descriptions and areas for the various future subdivisions for title purposes. Cadastral surveys are a prerequisite to any land management, development, or conservation program, since it is fundamental that the boundaries of the land being administered must be definitely known before any program requiring the expenditure of funds can be safely undertaken.

In July of 1970 I was hired by the Trust Territory of the Pacific Islands, an agency of the U.S. Department of the Interior, to help begin the cadastral program on the small island of Yap. After a two months introductory period in Saipan, which is the headquarters of the Trust Territory, I flew to Yap. There, I met the recently appointed Senior Land Commissioner of Yap, Mike Killian, and together we begin the business of beginning the Yap cadaster program.

The need of determining ownership boundaries was quite apparent. Although the Yapese, to some extent, knew their boundaries without the exact definition of a marked line, the ability to cope and stay with the growing problems that today's civilization demanded meant an immediate need for a defined delineation of property boundaries. For example, roads, sewers, waterlines, bridges, dredging operations, new schools, hospitals, and dispensaries all needed property severance and delination. In addition, it might also be said that this defining of individual land ownership was a method of breaking down the old Yapese caste system and a turning to a more democratic island for each inhabitant. Patent to land, also, would give the owner for the first time collateral security if he so desired.

Anyway, this paper is not to argue the merits of the cadastral program. This argument has been pro'ed and con'ed over and over again, and space does not permit all the aspects of for and against such an undertaking on the culture of these people in this far-a-way island which lies like a dot in the western Pacific Ocean. Many Yapese are asking for the survey of their land. This is something we have been led to believe they are not supposed to want or to be asking for. But yet, here it is ! The land will be surveyed someday, whether or not , it is a Japanese, German, U.S., Russian, Chinese, or Arabian, or a Yapese government that will do the job.

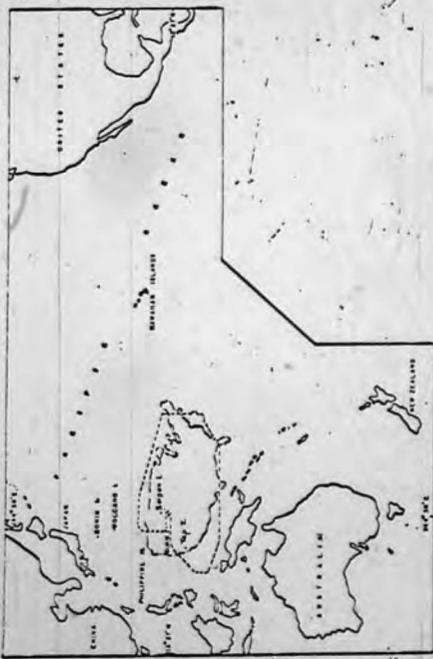
TRUST TERRITORY OF THE PACIFIC ISLANDS

Flag of the Trust Territory



Selected Statistics

Imports—\$26,165,853; Exports—\$3,000,714
fish, fruits, vegetables, meat, handicrafts;
expenditures—\$2.5m. lion (estimated)
Education—28,905 elementary school students
public and 31 private schools; 5,766 high
students in 11 public and 10 private schools; 27
school students on Guam, in Hawaii and elsewhere
students enrolled in institutions of higher le
outside the Territory.
Employment—5,211 Micronesian governi
employees; 615 separate government employ
5,107 others employed for wages.
(All figures for fiscal year ending June 30, 1971.)



VICINITY MAP



GENERAL HISTORY AND DESCRIPTION OF MICRONESIA AND YAP ISLAND

The Trust Territory of the Pacific Islands includes virtually all Micronesian islands of the Pacific except the Territory of Guam, the Republic of Nauru, and the Gilbert Islands. Roughly rectangular, the 3-million square mile area runs north from the equator 1,300 miles, with a width of about 2,300 miles. The islands of the Trust Territory include the Mariana, Marshall and Caroline island chains, with more than 2,100 islands of which 100 are inhabited.

Since first being sighted by the 16th century voyagers Micronesia has known

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Since first being sighted by the 16th century voyagers Micronesia has known

3

a succession of foreigners. Spain's rule beginning in the 18th century, was ended by the Spanish American War. Germany's hegemony ended with the appearance of Japanese gunboats in 1914, and Japan's mandate was finished (and America's begun) with the events of World War II.

The lengthy title, "The United States Trust Territory of the Pacific Islands" was first attached to Micronesia in February, 1947, when the United Nations awarded the U.S. a trusteeship over the Territory. Naval Administration of the Carolines and Marshalls lasted until 1951. In the Marianas (excepting Guam, of course) it lasted until 1962. In Washington, Trust Territory affairs are the concern of the Department of the Interior. The administration also makes annual reports to the United Nation's Trusteeship Council and is subjected to the close scrutiny of a U.N. Visiting Mission every three years.

The island groups are divided into six administrative districts. Yap District is considered culturally the most conservative of the districts. Population is considered to be about 6,000, most living on the four main islands which constitute Yap proper an area of about 38 square miles. These four islands, surrounded by a coral reef, were formed by land upheaval and are not, like many of the Pacific Islands, of volcanic origin. The islands are mostly low, rolling hills. The group's highest hill rises to an elevation of approximately 600 feet.

The lowlands which border the shoreline are covered with dense jungle growth. Coconut trees predominate the shoreline areas while breadfruit, mango and other hardwoods are found farther inland. On the interior's grassy slopes one finds scattered pandanus trees. Standing on almost any point of the island one can either see the Pacific Ocean on the eastern shore or the waters of the Philippine Sea which borders the west.

Yap is under the influence of the northeast trade winds for eight months of the year, November through June. This is the dry season. During the rainy season, from July through October the prevailing wind is southwesterly, with frequent periods of calm and light variable winds. Average rainfall is 120 inches a year.

The Yapese people are world-famous for impassively resisting the encroachment of the modern 20th Century. Traditional dress of loin cloth (or "thu") on men and grass skirts on women can still be seen by the traveler to Yap today. The bettlenut which grows in grape-like clusters on a thin coconut-shaped tree is Yap's trademark. For thousands of years this greenish, walnut-sized nut has been chewed by Yapese as a mild narcotic. Without the ever-present lump in the side of his mouth, accompanied by the red juice (which requires constant spitting), the Yapese would not be Yapese.

The traveler often becomes reluctant to leave this small island of which he so quickly becomes a part. In taking a quote from the pages of the Micronesian Reporter, we see that; "...the pace, the placidity and serenity help one repair the ragged edges of one's soul and create a pace more in harmony with one's own nature."

PAST HISTORY OF LAND SYSTEM IN YAP

Traditional Yap land ownership is somewhat complicated having many facets which would interest an anthropologist. Briefly here is listed the main lines of how land ownership in the past, and even today, has been handed down to its inheritors. Each parcel of land in Yap is traditionally owned by a household. Each household owns many parcels of land and which may be situated at separate locations throughout the village. Those lands that belong to households are not marked on the ground in any which way. Spokesman for ownership rights of the household are the tafen (normally the oldest male member of the household) and the mafen (a close male relative to the tafen). The tafen has the power to transfer the land use among the village people. The mafen has the power to determine inheritance to new born children. He has the general duty of guarding the ancestral interests in the property by seeing that the tafen properly performs his duty. If ownership rights are to be transferred only the tafen can do this after other members of the household have agreed to the transfer.

Many of the land parcels in Yap are owned by low caste households which are considered to be connected to, or a part of, certain high caste households. The tafen of the high caste household is the suwon, or overlord, of the low caste household lands. A very large percentage of Yap landowners, possibly 50%, still recognize the landlord-serf relationship of the caste system.

With the Spanish and German intervention certain areas of land were taken outright for the occupying government's use. Although the areas were relatively small this increased under the Japanese expansion times. Records of these government land uses were either kept very poorly, or were destroyed during the days of World War II. Today some few corner monuments can be found which had marked some tract corners, but no written records can be found. Fortunately Yap does not have an abundance of these government-owned lands as do other Districts of the Trust Territory. Because of their ownership vagueness they could be the basis of prolonged land disputes.

THE BASIC CONTROL

Before a survey program can begin a control net has to be established. The first established control points for Yap island began in 1965 when the Army Map Service set "YAP SECOR AMS 1965". This station is on the present Coast Guard LORAN station site. First order latitude, longitude, and azimuth was determined at this station by astronomic observations. This same year the Army Map Service also established the stations TTS-1, TTS-2, TTS-3, and TTS-4 by electronic first order traverse. All computations were based on the Clarke Spheroid of 1866.

In 1967 additional control throughout the island was extended to the various hilltops through third order methods with the use of a Wild T-2 and a geodimeter. The field work was done by personnel of the Trust Territory and was later computed and adjusted by the U.S. Geological Survey by holding to the first established Army Map Service points.

To complete the balance of established third order control throughout the island the U.S. Geological Survey in 1970 established some 43 additional points. This was done as part of a cooperative program with the Trust Territory government.

All geographic coordinates have been converted to plane rectangular coordinates

During the U.S. Geological Survey in 1970 establishment some 70 additional points.
This was done as part of a cooperative program with the Trust Territory government.
All geographic coordinates have been converted to plane rectangular coordinates

5

ASTRONOMICAL OBSERVATIONS WITH A
WILD T-4, SIMILAR TO THE INSTRUMENT
THAT DETERMINED THE INITIAL FIRST
ORDER STATION "YAP SECOR AMS 1965"

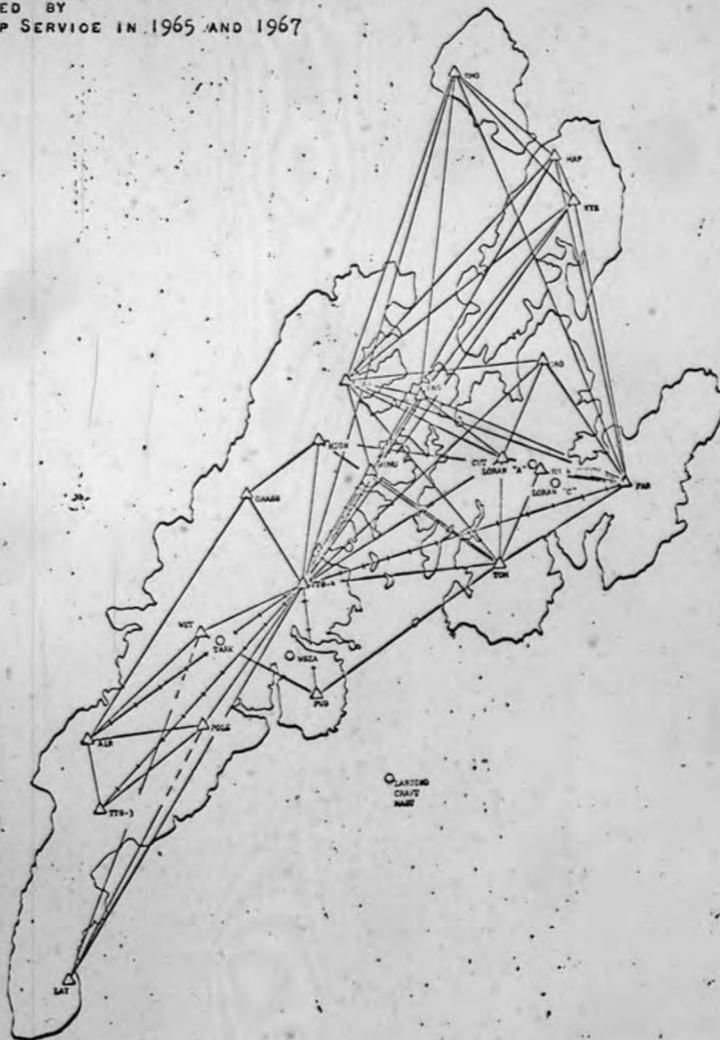


using station "YAP SECOR AMS 1965" as the point of origin. The coordinates assigned to this station are Easting = 40,000 meters, Northing = 60,000 meters. This plane coordinate system is a modified azimuthal equal distance projection in which geodetic azimuth and grid azimuth are the same between the point of origin and any other point on the projection.

This then, was the established control on the hilltops. Now the problem was to bring some form of control down to the lower lands and shorelines where the cadastral parceling of land could best serve it's purpose. The Bureau of Land Management in 1969 and 1970 assigned personnel on a six month loan basis to the Division of Lands and Surveys of the Trust Territory. The assignment to one of these men was to establish secondary control points along the major roadways of Yap island. This project was completed during the early part of 1970. When I arrived in Yap in September of 1970 one of my first duties in working with the Senior Land Commissioner of Yap was to introduce more secondary control to the southern half of the island. This was done by working off of existing control and establishing monumented points along the village boundaries within Gilman, Kanifay, and Dalipebinau municipalities. Thus, when the field work of the cadastral program was initiated in early 1971 a firm control base was ready for the surveying of the cadastral parcels.

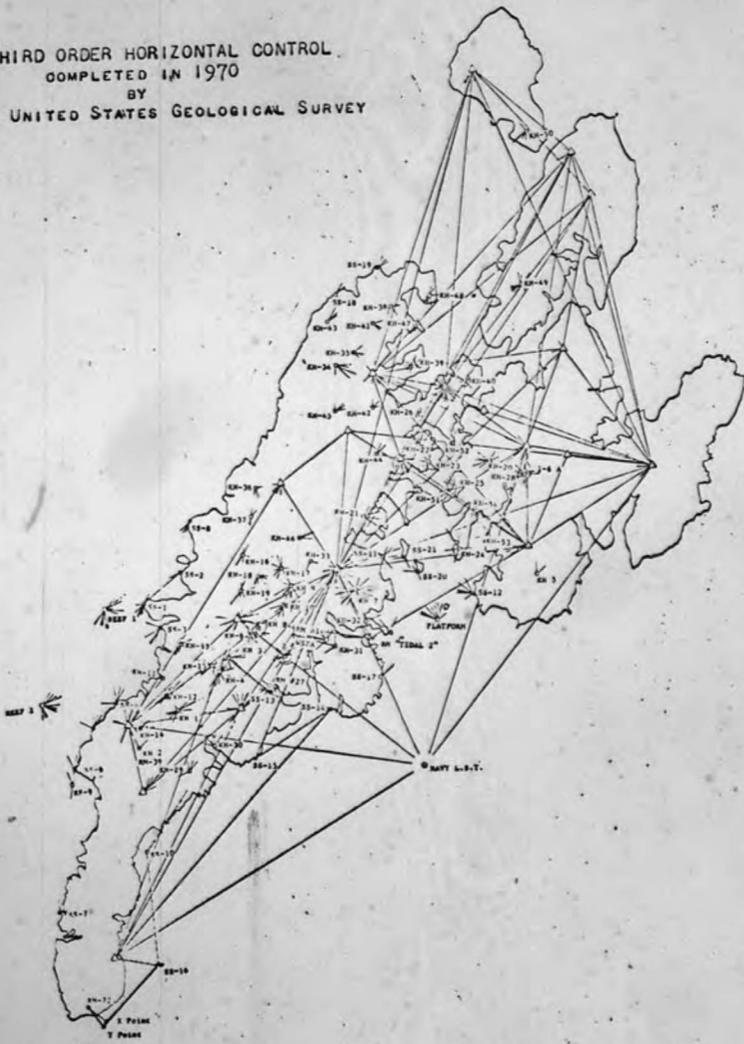
YAP ISLAND
CAROLINE ISLANDS

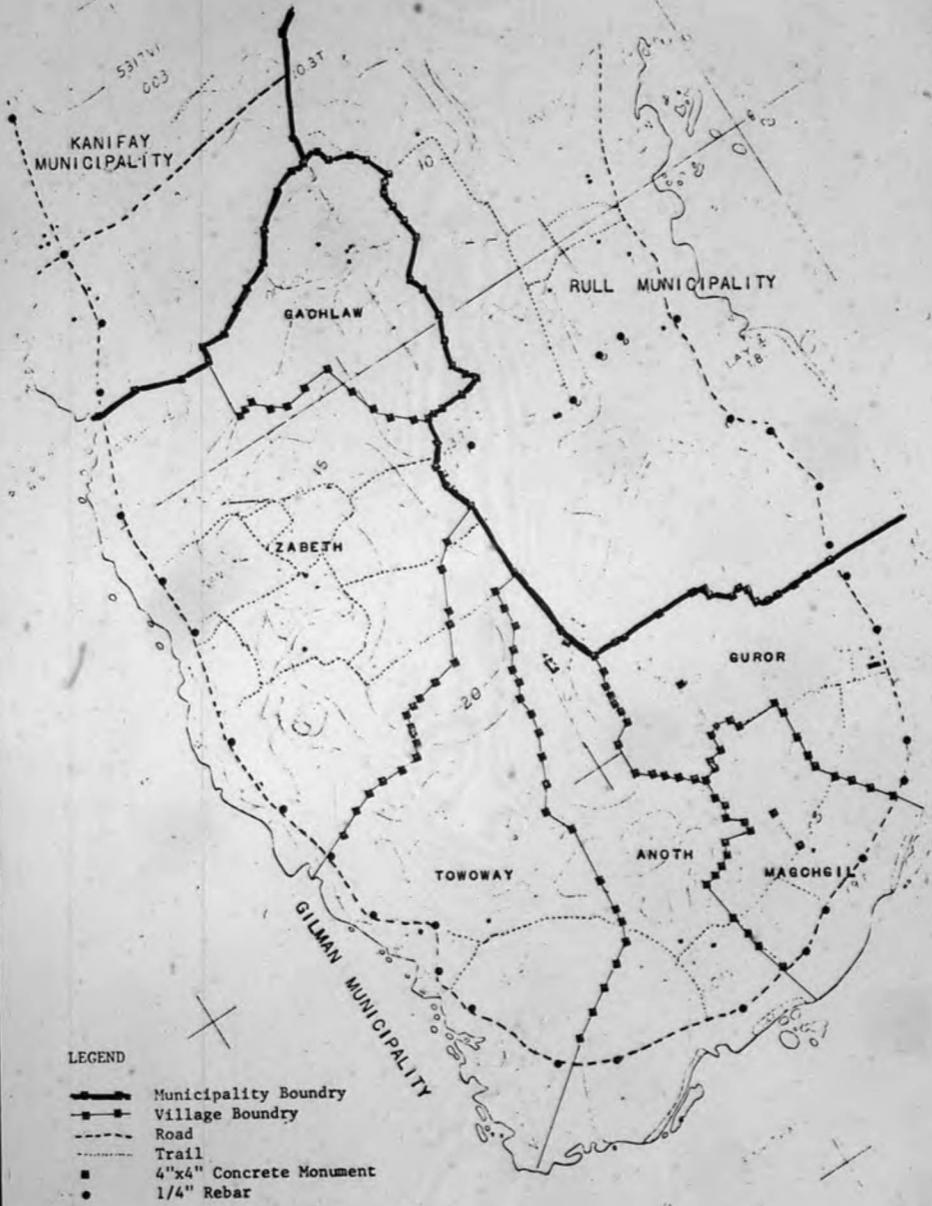
FIRST AND THIRD ORDER TRIANGULATION STATIONS
DETERMINED BY
THE ARMY MAP SERVICE IN 1965 AND 1967



YAP ISLAND
CAROLINE ISLANDS

THIRD ORDER HORIZONTAL CONTROL
COMPLETED IN 1970
BY
THE UNITED STATES GEOLOGICAL SURVEY





SECONDARY CONTROL NETWORK IN THE GILMAN MUNICIPALITY AREA

THE FIELD WORK - The Beginning

Basically, to make the cadastral program work, there was a need for three separate functioning field groups.

1. The registration team to locate and define the landowner's boundaries.
2. The monumentation crew to cut out the vegetation growth along the parcel boundaries and set the concrete markers at the property corners.
3. The survey team who's job it would be to measure the distance and determine the angles between property corners.

During January of 1971, in the northern portion of Guror Village near the Gilman/Rull municipality line, the program received it's actual field start. While the Gilman registration team, sitting under a large mango tree, conferred with the Senior Land Commissioner, the survey crew, working with myself, began the initial surveying of the property corners as previously defined by the registration team. This was a historic day. This was the first concentrated effort to get an overall definition of the Yap island properties. From this token start the work on the property boundaries radiated out. Each week, thereafter, slow but steady progress could be noted.

THE REGISTRATION TEAMS

In the beginning small problems were ironed out as these problems developed. Rolled ribbon flagging was given to the registration team to mark the owner's boundaries through the jungle growth and to spot where corner markers were to be placed. The specific duties of the registration team was to contact each individual landowner, plus the adjacent owners of properties. This was done. In



MEN'S HOUSE, OR "FALU", IN DUGOR VILLAGE. A FREQUENT MEETING HOUSE FOR WELOY'S REGISTRATION TEAM.

10

some cases where agreement could not be reached between owners the property was not surveyed. This appeared in very few isolated cases. What few ownership problems were encountered were generally resolved.

When Gilman Village was completed about 60% was surveyed and 40% remained as unsurveyed land. But the basic reason for this unsurveyed land was; 1) The land was "no-man's land", that is, not claimed by anybody. 2) The land was a large taro patch in joint ownership of many village owners. 3) The landowner did not want his property surveyed. 4) There was a dispute between ownership. Be that as it may, the fact that the majority of the land was being surveyed was progress, and as the program became more understood by the Yapese people more and more desired and asked for the surveying of the boundaries of their property. This desire became more apparent as the work went on. When Magchgil Village was completed the ratio was about 80% surveyed, 20% unsurveyed. The final village worked on before the program was stopped was Towoway. The registration team was not able to work the entire village but about 70% was completed.

The village of Anoth which lies between Magchgil and Towoway was an interesting problem in that the village chief did not desire and thereby did not allow, the cadastral surveying in any part of his village. As per Land Commission policy no attempt was made to pressure the surveying of land parcels in a village not desiring survey. Thus, the village was bypassed. It should be noted, however, that many individual owners of that village came to the survey and registration teams and asked if they could get their property surveyed. It is interesting to note that this asking for a marking, and an eventual documentation of property, is in direct contrast to what had formerly been said about Yapese desires because of the nature of his culture.

Coordination between office and the registration teams was very informal. In the beginning only the Gilman team was in operation. By late 1971 an additional team of three men was created to work in Weloy Municipality. This team concentrated its work in the large hill-jungle area known as Dugor Village. A meeting with both these teams was attempted at least once a week, but depending on the work load this schedule was not always rigorously maintained.

The registration team was made up mostly of old men who knew the boundaries of property, and, in some cases, chiefs of villages of that particular municipality. Yapese custom and nature seemed to work best to allow the teams to work directly in the field, that is, not to have to enter the office in Colonia each day. A time check was maintained on the Gilman team through the crew chief of the monumentation crew who coordinated between the team and the office each day. The Gilman team also had an appointed chairman of their group.

The normal work day of the team began with the team walking from their homes to the site that was being worked within the municipality. In the 2½ year period that the Gilman team was in operation three villages -- Guror, Magchgil, and Towoway were worked. Once the team reached their working area contact would be attempted with the owners of those parcels being worked. In a majority of the cases owners could not be immediately contacted. This caused some necessary waiting. Quite often other known taro or sweet potatoe patch could be flagged prior to OK'ing from an owner at a later date. In addition, during this leisure time the team became very useful by moving around with the monumentation crew to assure the proper corner post setting of those parcels already determined.

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THE WELOY MONUMENT CREW BEING
OBSERVED BY A MEMBER OF THE
REGISTRATION TEAM.

In the 2½ years that the Gilman team was in operation 403 lots were determined. The Dugor team which was in existence about 1½ years completed 105 lots. This works out to approximately a flagging of 4 parcels per week per team.

Meetings with the office and the registration team would be conducted by setting on a banana leaf under a shady tree or in one of the traditional Yapese men's house, or "filau". At that time any ownership problems were discussed. Very few serious problems came up that could not be resolved. As could be expected the biggest problems was the finding (or waiting) for the landowners. At this time also, the usual problems that involve all working people were discussed, such as, time on work, leave accumulated, paycheck discrepancies, and so forth. Admittedly, absenteeism was prevalent with these two groups, just as it was a problem with all the government work agencies throughout Micronesia. The group tended to make up for this with their patients and good relationship with the landowners that this very important job demanded.

MONUMENTATION

The registration team was followed by a small field crew who's duty was to cut out the boundary line from the jungle growth and set the corner markers. The chief of the monumentation crew kept a sketch pad record of the general layout of the prepared lots. This later would be shown to the survey crew chief when enough contiguous lots were prepared. In addition it was found that the placing of 2 inch nails on the sides of cut small posts positioned alongside the corner markers was a great help. The nail heads were faced into the direction of the intersecting boundary line (or lines). Along with the general sketch of the contiguous lots these reminders were great aids to the surveyor, especially where taro parcels were close upon each other.

boundary line (or lines). Along with the general sketch of the contiguous lots these reminders were great aids to the surveyor, especially where two parcels were close upon each other.

12.

A
CADASTRAL
MARKER
IN
PLACE



CARRYING A MARKER ACROSS A YAPSE STONE PATH

Corner markers were pyramidal-shaped concrete posts that had a diameter of 4" x 4" on the top and 6" x 6" on the bottom. They were two feet long and had a \boxtimes marked into the concrete on the top. These markers were different than the previously used control markers which were of the same length but were straight rectangular-shaped 4" x 4" in diameter throughout. The mark on top of these monuments was more in the shape of a cross \boxplus . The purpose of this was for differentiation.

Because of the numerous amount of these markers needed the making of these markers was contracted out. The small group of Yapese who received the contract lived and manufactured the markers in the municipality of Gagil. One stipulation within the contract was that two pieces of $\frac{1}{4}$ " reinforcing rod was to be placed within each marker. The straight control markers were made by Land Management work crews in their spare time by

the pouring of wet cement into prepared wooden frames.

Standard post hole diggers were used for digging out the holes to place the monuments. An attempt was made to set the markers so that about 2 inches remained above ground. Machetes were used as the cutting tool for cleaning out the survey line. The short lines and the originality of the boundaries helped to enable the registration and line-cutting crew to usually avoid passing the line through any large tree such as coconut, mango, or breadfruit.

THE SURVEY CREW

The final party to complete the field process was the survey crew. An attempt was made to turn all angles four times (2 direct and 2 inverted). From this the mean angle was derived. Due to past practices this procedure was not always maintained. In the early part of the program the



ABOVE - A
SURVEYOR
CHECKS HIS
NOTES



LEFT -
CUTTING
BOUNDARY
LINE
THROUGH
BAMBO

Yapese crews were doing only what they had learned in the past small surveys from various teachers. For example, this included surveyors from the Corp of Engineers, the U.S. Geological Survey, the Bureau of Land Management, contract surveyors from Asia Mapping Inc., and surveyors from the Trust Territory. It should be noted that personnel from all these different agencies all have different surveying backgrounds and in general, they themselves have trained for different types of mapping and surveys. Thus, in the early days of setting control and mapping and surveying Yap the Yapese, on an average of every one or two years, were students under different teachers who in general were using different methods to survey. To cope with this problem the office of the Territorial Surveyor in the Trust Territory headquarters in Saipan sent out a list of standardized instructions for procedures in the field and office. These were called the Operations and Technical Instructions, or the "OTI".

In early 1971 the first portion of the new OTI instructions were received by the Yap surveying and mapping office. Subsequently, thereafter, other surveying (and drafting) procedures were received. The problem then became one of changing the field crews to once again change their methods of procedure, and to convince them that we were not going to change the method again in the immediate future. It is always a difficult part of any program to change the old designated patterns where people have been taught the many different ways of reaching a goal, but I think that we are managing to accomplish the changing gradually, but slowly, in Yap. The above mentioned problem is also relevant to all phases of the program. For example, the Division of Lands and Survey's office has sent out OTI instructions not only for standard procedures to use in the field but for the drafting and computing of the program as well. This is certainly a step in the correct direction.

As is the case with all surveying crews chaining "busts" were the most plaguing errors. As the work proceeded and crews became more efficient in working together, and with the introduction of the meter/foot tape, the chaining errors were drastically reduced. An attempt was made to use only 50 meter tapes which were graduated on the reverse side in feet. By recording both of these values in the field book a check was easily made on a traverse that did not close. All of the Division of Lands and Survey's work within the six districts of the Trust Territory is done in meters.

Time and the cost factor dictated the utilization of some side shots to corners on those lots which were not easily occupied along the common traverse line. These shots were kept at a minimum as much as possible.

To start a particular group of parcels surveying began by starting from the most convenient secondary control points in the area. The traverse encompassing these parcels (along with it's side shots) would then tie back into the same points or into another two points of the secondary control system.

The Yapese fore and back site method, which I found most convenient in this jungle environment, was to cut three slender poles, tie the three together at the top, and then spread in tripod form over the cross on the concrete monument. A 16 ounce plumb bob was then suspended over the point by string tied to the top of the tripod. This unique method saved the carrying of extra tripods.

EQUIPMENT

Throughout the program a variety of transits were used by the field parties. At the beginning, in 1970, the District had two Dietzgen 20 second transits. As these were later sent to Headquarters for cleaning, and or, adjustment they were replaced by a Japanese-made STANDARD 20 second transit which later was joined by two Wild T-16 transits. The latter had become the standard instrument at the end of the program. The optics in the T-16s have an extra prism so that the image is not inverted to the eye. The instrument is read to the nearest minute, and an estimate is then made by tenth of a minute. This is later converted into seconds in the office during computing.

In 1971 the District office received a Wild DI-10 Distomat from the Saipan Headquarters office. The three-prism reflector supplied with the DI-10 allowed measurements up to 600 meters. This infra-red beam measuring device enabled the field crews to go "modern", but, because of the shortness of the lot lines the old transit and tape method was still the most efficient and practical. The Distomat was used minimal. It is anticipated it's use will become more effective when the necessary additional control is laid out in the northern municipalities of Yap.

When the author arrived in September of 1970 the available transportation that the Land Management office had for this program consisted of two newly received Japanese Mitsubishi jeeps, an old American diesel jeep, and one old Dodge power wagon (left over from USGS personnel). Shortly thereafter, two more Mitsubishi jeeps were received from Headquarters. This proved the last of any kind of vehicals received. Because of extreme deterioration and rust factor in the tropics these vehicals were none too many, and this was especially true when the second cadastral working group was started in Weloy Municipality. Great and constant care was needed. A maintenance record for each vehical was kept, and during the height of the program the crews washed their assigned vehicals religiously every Friday afternoon. But, two years of tropical marine climate takes a toll. When the cadastral program received it's exit in May of 1973 the frames of the jeeps were falling off or had been "tined" over where possible. If the program would have continued at the accelerated pace that had been previously been projected by the original planners than a general round of new vehicals for the field would have had to be gotten some which way for the Yap cadastral program.

THE FIELD
CREW
REPAIRS
A BROKEN
TIE ROD



THE OFFICE

In the office the most difficult and important part of the cadastral program needed to be handled. Here, each day's work had to be computed, parcels closed out and areas calculated. This information had to be recorded, drafted and then filed.

Because the Land Commission was not as yet an official organization in Yap District the necessary land hearing, proper documentations, paperwork, and the official seal for patent could not be ascertained. Thus,

in keeping the record, instead of official completed plats, so-called work copies on plastic sheets were drafted. Recording on plastic was deemed to be the most permanent way to maintain the survey record.



* A GREAT AID TO THE OFFICE -
THE COMPUCORP 155 DESK COMPUTER

COMPUTATION

At the beginning of the program the office had available two electric Friden 1217 printing calculators and one small ancient Facit electric calculator. In 1972 one of the Fridens' was replaced by a CompuCorp 155 "Surveyor" desk computer which was sent to the Land Management office from Headquarters. This computer greatly aided in keeping up with the volume of work on the surveyed parcels that entered the office. Only one breakdown of the machine was experienced. There was a delay of approximately three months while the machine was fixed. During this time to keep up with the volume of work, the old computation forms and calculators were again applied. Because Headquarters required all computations for checking to come to them on computer tape this work was redone again on the computer once it was returned from the factory. The CompuCorp 155 was especially handy in that data fed into it in either coordinates, bearings or distances would give a direct printout on the information desired. The computer was also equipped with a program in which closed traverses could be adjusted by the Crandall or Compass method. This was a tremendous timesaving convenience. At the touch of a button on the keyboard the computer would also give the area of a closed lot in square meters.

DRAFTING

The data obtained from the computer was given to the draftsman for the making up of the plats. In the early stages of the program we had already switched from the standard drafting paper for record to the more permanent playstic polyester film. Later Headquarters supplied us with pre-cut sheets of polyester film which included the basic format already printed. As mentioned, these plats could not become official because of the unofficiality of the Yap Land Commission. Thus, these drafted plats were "work copies", but the intent was to maintain all the quality and standards called for by the Operation and Technical guidelines of Headquarters. All of our final drafting was finished in ink and finished copies were sent to Headquarters for a

*Photo courtesy John Pong

because of the... were "work copies", but the intent was to maintain all the quality and standards called for by the Operation and Technical guidelines of Headquarters. All of our final drafting was finished in ink and finished copies were sent to Headquarters for a

*Photo courtesy John Pong

DRAFTSMAN
PUTS
FINAL
TOUCHES
ON A
CADASTRAL
PLAT



final check. It is hoped that when the Land Commission becomes official so few corrections will need to be applied that the work copy plats can receive the official seal and automatically be transferred to the Land Commission files.

All of the plats are drawn to the 1:500 scale. This is the ideal size to get approximately 20 contiguous lots to a plat. At this scale the size of the individual lots are approximately the correct size for visual reference for ownership hearings that will need to take place later.

FILING

One of the seemingly insignificant, but yet most important, part of the program is the cataloging of information and proper filing of the completed plats.

In order to avoid duplicity and confusion the completed parcels were first plotted by coordinates on a 1:1000 scale map of the village being worked. This served as an index for selecting the parcels for the 1:500 scale plats. On this index the registration team's crew chief would draw in pencil the parcels that he had ready for survey, and the way in that he felt they oriented on the index map. When the computed information on the coordinates of the parcel corners were all complete the true alignment of the parcels were plotted on the index map and the penciled lines erased. This method of keeping a good running record of our work proved to be the best system of any that we tried.

All parcels were given a consecutive Tract Number and recorded in a log book kept in the office. All drafted plats were also, given a consecutive "Drawing Number" and recorded in the office book. In accordance with instructions from Headquarters the "Plat and Parcel Numbering System", introduced in 1970, was not applied in the Yap District. It was felt it was better to keep the old index system until the Land Commission became official.

Although field work has been completed at this stage of the program on all of those parcels marked by the departing registration teams the final computations and

Yap District. It was felt it was better to keep the old system than to have the Commission become official.

Although field work has been completed at this stage of the program on all of those parcels marked by the departing registration teams the final computations and

drafting is still being done. However, it appears that the final total will be 20 plats with a total number of 478 parcels with a breakdown per village as follows:

VILLAGE	NUMBER OF PLATS	NUMBER OF PARCELS
Guror	7	98
Magchgil	4	100
Towoway	6	175
Dugor	3	105

The three plats of Dugor Village were drawn on a 1:100 scale in order to take care of the larger dimensioned parcel size in that village. The finished plats are filed in a flat file in the Land Management office.

One of the big assists for the office workers was the availability of a GAF 150 Diazo printer. Blue-line copies made from this machine made work copies for the office as well as for the field crews. In addition, toward the end of the program a Xerox 660 I copier was obtained by the Land Management office.

Each plat has also been given an individual folder in which pertinent information, such as, correspondence from Headquarters pertaining to corrections, and computation read-out tapes were kept.

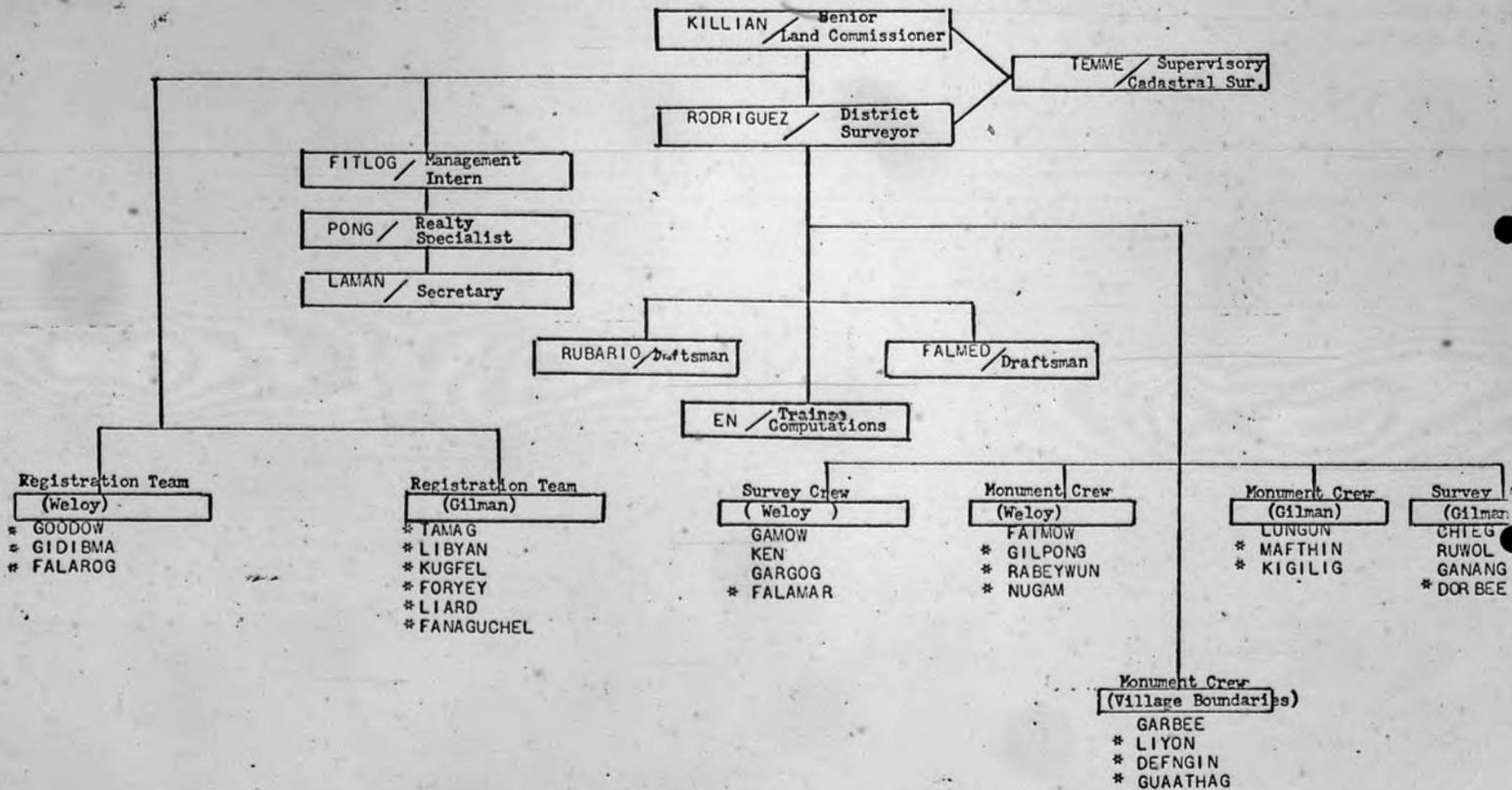
THE STRUCTURE

At one time it was hoped that the Yap Land Commission budget would be as high as \$146,000 by the year 1978. This was the proposed projected figure for that future year. During the early part of the past year (1973), when the Yap Land Commission received its termination, the Land Commission's budget was running around \$90,000 but much of this money was being diverted to other projects in the District or was returned to Saipan. The peak activity year for the program was fiscal year 1972. Approximately, \$86,000 was allotted and used for the cadastral program during this time. It is the intent of the Trust Territory Headquarters in Saipan, who govern the allotted budgets for all six districts of Micronesia, to revise the defunct Yap Land Commission and continue the cadastral program as planned. Whether they can recruit the all-important Senior Land Commissioner and get the program back on its feet remains to be seen.

Considering that the Yap District surveying function was only a token crew of some 3 or 4 personnel only five years ago, the Land Management office expanded 6-fold in order to handle the increased work load the program placed upon it. During the latter part of 1971 and the first part of 1972 the activity relating toward the program reached its peak. During this period some 37 men out of the Land Management and Land Commission combined office were geared each day toward the various activities of the program as is shown on the chart on the following page.

This chart shows how the program functioned in its actuality and does not necessarily represent a completely Land Commission structure.

PERSONNEL STRUCTURE RELATING TO YAP CADASTRAL PROGRAM - 1971/72



* Temporary Employees

CONCLUSION AND SUGGESTIONS

In January of 1972 the Senior Land Commissioner of Yap transferred to Koror, Palau to fill the void in that office of the Land Commission of that district. Headquarters expected to fill the vacant position left in Yap but as time passed this was not done, and the author continued the program under the auspices of the Yap Land Management office. On March 1973 the allowable employment time ran out for Land Commission employees on temporary status. This was the death-knell for the Land Commission office in Yap and except for backlog work the program came to it's end.

At this writing there has not been a Land Commissioner appointed to gear up the program again, but as can be seen, there is a need for this program and a desire by the Yapese themselves that it continue. It is hoped that the program will get the strong strength and support again from all concern that it once had going for it. During the past Yap legislature session it was asked by that District body that the Land Commission program be resumed.

It has been said that there are about 35,000 land parcels to survey and register in the District of Yap. This figure is estimated and probably when derived at would consist of an additional 5,000 land parcels in the outer islands of the district. It is known from the beginning that the program would take much time since most of the parcels to be surveyed are small taro patches. Based on figures computed after the first year of the program it was found that the average parcel in size was 0.22 acres (or 0.086 hectares). In the 2½ years that the cadastral program was going roughly 500 parcels were surveyed. Thus, at this pace to complete the 35,000 land parcels of Yap proper alone it would take 175 years. There IS a lot of surveying to be done in Yap! It might be noted that in a report submitted by the Chief of the Division of Lands and Surveys that Yap District was ahead of all the other five districts of the Trust Territory in the number of parcels surveyed at the end of July 1972.

In summation here briefly are some suggestions that I would like to offer as a guide for a regenerated future program.

Realistic Time Estimate

There should be a more realistic time estimate given by those in charge as to how long the cadastral program in Yap will take. In the beginning the figure of 5 years was given. Later this was switched to 15, than 35 years. The higher the figure went the more appalled bystanding observers were. But, one needs to give an honest estimate otherwise we will keep kidding ourselves and no true course can be set. Even the U.S., with all it's surveyors and modern technology, after 400 years is still not completely surveyed.

Office Separation

In the past Yap's Land Commission and Land Management offices have been combined, with the District Surveyor loaning a portion of his personnel for the program. This is not a good setup for either office, and the Land Commission with this structure cannot pursue it's cadastral program with aggressiveness. The Land Commission office should have it's own surveyors and draftsmen, as well as it's separate office staff. Surveying pressure

aggressiveness. The Land Commission office should have it's own surveyors and draftsmen, as well as it's separate office staff. Surveying pressure

upon the Land Management Office comes from Capitol Improvement work within the District, not on a cadastral program.

Computers, or no Computers?

If the program is to depend on read-out tapes from computers for all computations than the Yap office definitely needs an additional desk computer for back-up. Of the 18 months that the Yap office has had the CompuCorp 155 computer it has been out of action 5 months. Both major and minor breakdowns on these machines require a technician very remote from Yap. At the present time Yap's computer is again awaiting repairs and a corresponding reply from it's manufacture. During these lag periods valuable time is lost in the office. Future equipment funds would be served well in getting an additional small desk computer.

Registered Surveyor's Licenses

At this writing there are on record some 30 registered surveyor's licenses given out by the Trust Territory. However, more than one-half of these people are no longer with the Division of Lands and Surveys, and 15 surveyors alone, are no longer in Micronesia. Yet, at the same time, some surveying supervisors working for the Division, and who have completed all the requirements for registration, haven't been given a license because the Registration Board hasn't been able to get together since the fall of 1971 for the required meeting. The rules of the board should be changed, or perhaps, the Trust Territory in fairness to all it's surveyors working for them should forget about licenses.

Coordinate Adjustment

The initially established control and all of the secondary control points that are set on Yap island at this writing are good. I strongly recommend that no adjustments to these values should be made. In 1971 a contract employee, on loan for three months to Yap during the writer's absence, applied his own method of coordinate value adjustment. The change made in the values were measureably small and questionable whether more true. Not wishing to create more control havoc for our office computations we had to adhere to these slight different values that had been given to the records of Headquarters office. The values might be only slightly changed, but the vibrations that were thrown throughout the entire system are still being felt.

Office/Headquarters Communication

It is essential for a good functioning program that periodic communications be made between personnel of the Division of Lands and Surveys in Saipan and the Surveying and Mapping office of the district. There has been many long months when no communication in person between the two offices has taken place. If personnel from Saipan cannot travel to Yap District more frequent than has been done in the past, than perhaps, travel allowances should be given to the district surveying supervisors to travel to Saipan to discuss periodic problems. This is especially a necessity if annual Land Surveying Conferences will continue ~~not~~ being held.

Filing System Essential

Finally I want to impress once more the importance of a good up to date, and constantly kept, filing system for all records, maps, computations, and all correspondence relating to the work being done. My 3 years in working with the cadastral program in Yap has shown to me that maintaining records to refer to is more important than the actual field work itself.

ADDITIONAL PHOTOS



ABOVE - THE
AUTHOR MEETS
WITH THE GILMAN
REGISTRATION
TEAM

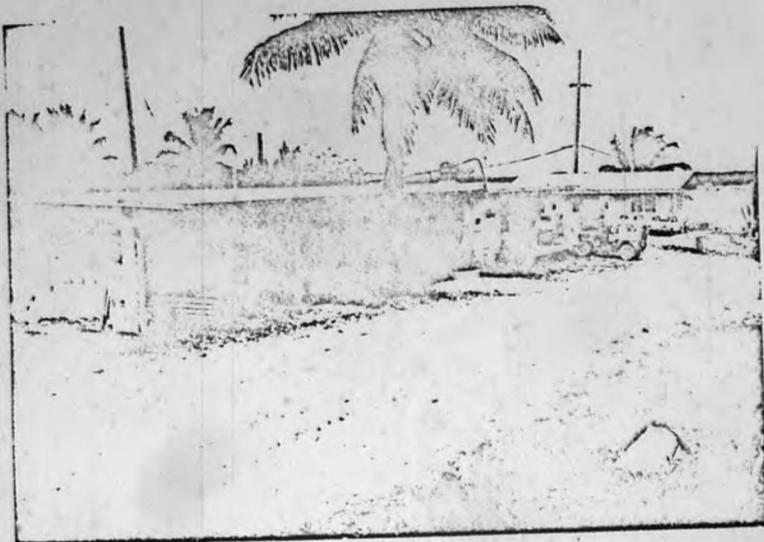


LEFT - CHRISTMAS
DINNER 1971, SPONSORED
BY GILMAN REGISTRATION
TEAM.
AUTHOR IS AT LEFT. SENIOR
LAND COMMISSIONER MICHAEL
KILLIAN IS AT FRONT RIGHT

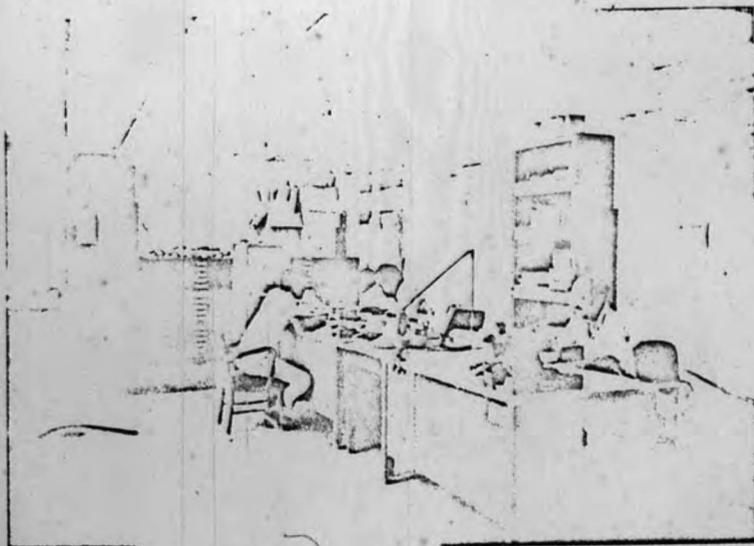


*Photo Courtesy Mike Killian

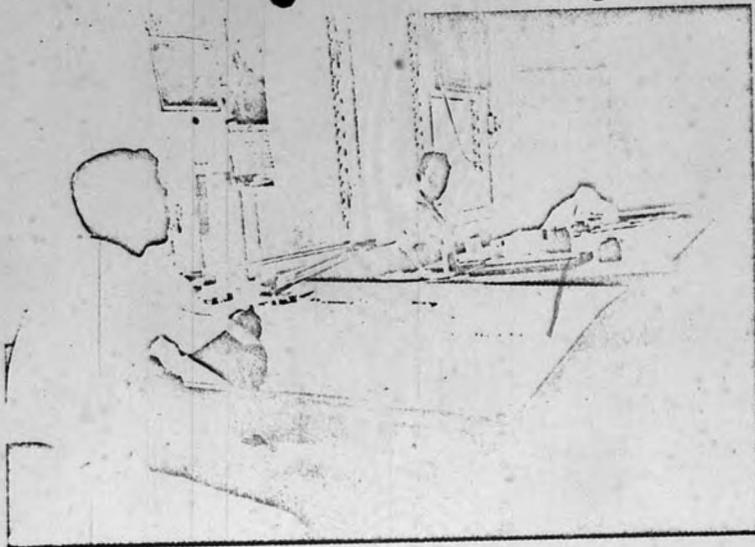
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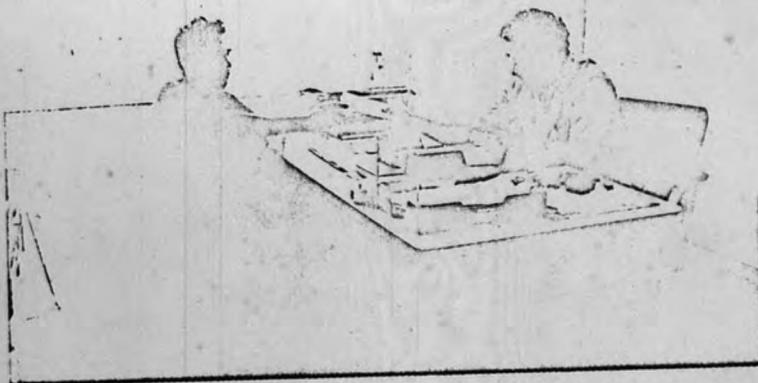
THE LAND MANAGEMENT OFFICE OF YAP DISTRICT



THE SURVEYING AND MAPPING SECTION OF THE LAND MANAGEMENT OFFICE



THE DRAFTING SECTION OF THE LAND MANAGEMENT OFFICE



A MEMBER OF THE SURVEY CREW RECEIVES HIS PAY CHECK. EVER SECOND FRIDAY IS PAYDAY.

A MEMBER OF THE SURVEY CREW RECEIVES HIS PAY CHECK. EVER SECOND
FRIDAY IS PAYDAY.

25



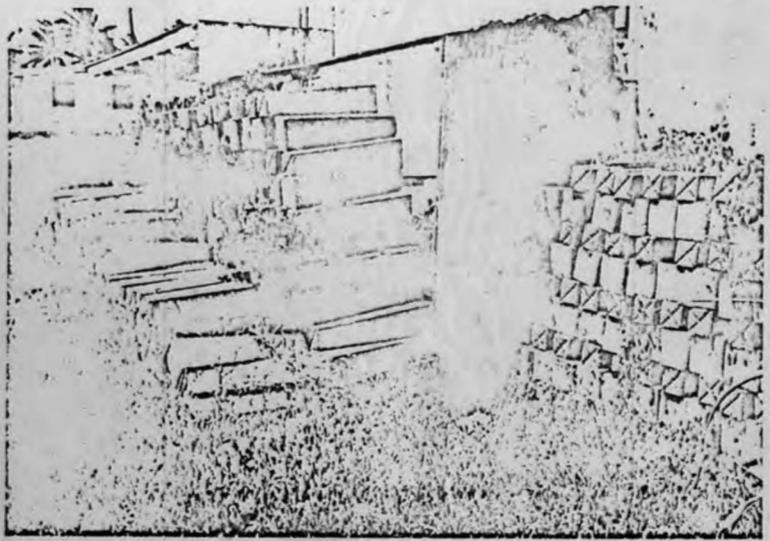
USING THE ELECTRONIC DISTANCE MEASURING WILD DISTOMAT (DI-10)



MEASURING A PARCEL'S
BOUNDARY ALONG A
VILLAGE STONE PATH



THE HILLY SEMI-JUNGLE LANDS OF WELOY MUNICIPALITY



CONCRETE CADASTRAL MARKERS AWAITING PLACEMENT

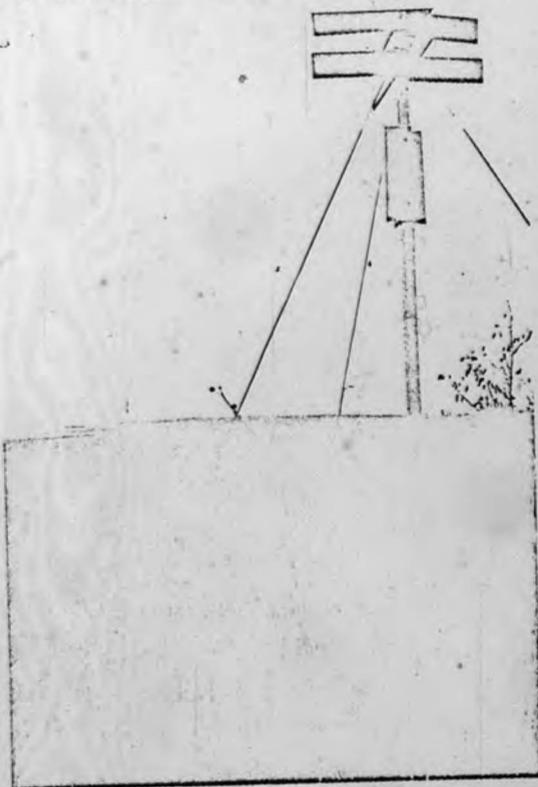
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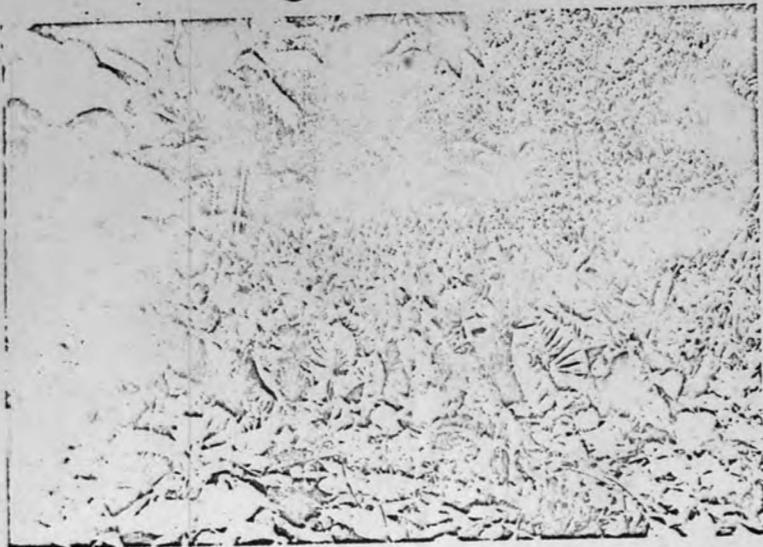
.27



ABOVE - THE GILMAN SURVEY
CREW PREPARES TO
SURVEY A VILLAGE
BOUNDARY

RIGHT - SIGNAL OVER A CONTROL
STATION ON A HILLTOP
OVERLOOKING GILMAN
MUNICIPALITY





A TYPICAL TARO PATCH



ROCKY SHORELINE ALONG A BEACH IN GILMAN MUNICIPALITY

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The Micronesian Land Cadaster Program. Paul D. Dennis, Trust Territory of the Pacific Islands.

The Land Cadaster Program in Yap District. J. Michael Alliman, Trust Territory of the Pacific Islands.

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YAP DISTRICT LAND COMMISSION
Trust Territory of the Pacific Islands
Yap Western Caroline Islands 96943

TO : Chief Land & Surveys
THRU : District Administrator, Yap
FROM : Sr. Land Commissioner, Yap

August 28, 1974

SUBJECT : Present Status of Yap Land Cadastral Program

The marking and surveys of the boundary of the property abutting the main road in Worowoo has been completed. It consists of concentrated residential and business property including the existing Public Works site. When the preliminary drawings are complete, Preliminary Inquiries will be held.

A Preliminary Inquiry was held August 15, 1974 pertaining to 9 parcels of land located near the Airport including the Weather Bureau and Communication Sites. The Formal Hearing for title determination of these parcels has been set for September 25, 1974.

Present plans are to complete marking boundaries of property abutting the road thru the Village of Balebat past the Rull Municipal buildings and then hearings will be held on the property surveyed in Worowoo, Balebat, and the Staff Housing (Samoan) area. The latter area, which will be contested, has been surveyed as a whole so if it were held to be partially or all private property those areas would then be marked and surveyed.

It is intended in the very near future to commence marking property abutting the road in the Municipality of Welloy commencing at the Administration Area proceeding north. This will also include the YCA, Hospital, Supply areas etc. This will complete the survey of most of the populated areas of Colonia.

Presently, the road to the Airport is being surveyed by Land Management for right-of-way acquisition. The abutting property is being marked by Land Management & Land Commission personnel so title determination will be made as it progresses.

To date the accumulated man hours authorized by the budget for Land Registration Team members i.e 10 positions at 80 hours per pay period or 800 hours totals 3200 hours (4 pay periods). The actual hours used so far is 666. The surplus will be used at a later date with an increase in the number of Teams activated.

Robert W. Green
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m. mar. 178.80.5



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Mr. Man

178.80.5

ASIA MAPPING, INC.

September 27, 1971

MEMORANDUM

TO : Director of Resources and Development
Attn: Chief of Lands and Surveys
Thru: District Surveyor
District Land Management Officer
District Administrator
FROM : F.W. Bartels; Cadaster Surveyor, Yap District
SUBJECT : Bi-weekly Report - Period Sept. 12 thru Sept. 25, 1971

DAILY ACTIVITY

SUNDAY, Sept. 12

no work day

MONDAY, Sept. 13

a.m. - in field with crew, training and observation
p.m. - same as above

TUESDAY, Sept. 14

a.m. - closures lots 005A09 & 005A10
p.m. - training field chief to check his angular closures

WEDNESDAY, Sept. 15

a.m. - calc. on Keng-Dugor bdry, with hand crank, no power
p.m. - closures lots 007A11 & 12, had Keng-Dugor bdry. rechaind

THURSDAY, Sept. 16

a.m. - calc. lot areas
p.m. - recalc. Keng-Dugor bdry. with new distances

FRIDAY, Sept. 17

a.m. - rework, after further field work, of lots 007A11 & 12
p.m. - closures lots 006A16 & 17

SATURDAY, Sept. 18

a.m. - checked out transit, found it to be impossible to fix locally
calc. lot areas & plotting



UK 247
Action: Mr. Perry 178.80.5

ASIA MAPPING, INC.

September 27, 1971

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Attn: Chief of Lands and Surveys
Thru: District Surveyor *LR*
District Land Management Officer *JK*
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UK says
Action: Mr. Perry 178.80.5

SUNDAY, Sept. 19

no work day

MONDAY, Sept 20

a.m. - "K" line control adjustment
p.m. - "K" line control adjustment

TUESDAY, Sept. 21

a.m. - "K" line control adjustment
p.m. - "K" line control adjustment

WEDNESDAY, Sept 22

a.m. - worked out conversion factors for latitude & longitude on Yap.
R.M. line control adjustment
p.m. - R.M. Line control adjustment

THURSDAY, Sept. 23

a.m. - R.M. line control adjustment
p.m. - R.M. line control adjustment

FRIDAY, Sept. 24

a.m. - 72 line control adjustment
p.m. - 72 line control adjustment

SATURDAY, Sept. 25

a.m. - worked with district surveyor on map for legislative status
committee

SUMMARY

In the past two weeks the Acting District Surveyor and myself have been reviewing the adjustment of the control traverses.

Manual adjustment is being made of those control lines in the sly. end of the Island. We have a block of about 60 contiguous lots to survey and want them to be tied to good control and properly adjusted.

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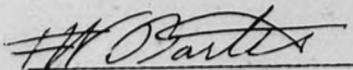
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The field crews sometime in the past stopped using hand levels for chaining. Luckily the terrain where they have been working is reasonably flat. I have attempted to correct this malpractice. Results on the Keng-Dugor Bdry. rechainning indicate that the crews are now again using hand levels. Stub shots have been eliminated entirely.



F.W. Bartels - L.S. 2881 Calif.
Cadastral Surveyor

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aster Surveyor

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PASS TO SENIOR LAND COMMISSIONER. BARTELS ARE CONFIRMED
TO YAP ON SEPTEMBER ONE. PLEASE CORRECT THEIR RESERVATIONS.
PAUL DENNIS SENDS
BT

NNNN

178.80.5

ADD 71 CRIG.....CH/L&S

IN 0.....D/RD

DDIC 15/016/24/JM
P 2/0002 1/3 71
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CRIG

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NNNN

178.80.5

Senior Land Commissioner, Yap District

Chief, Lands and Surveys

Land Cadaster Plats - your memo, Serial:LCT0076

A review of your cadastral plat format was made. We find nothing wrong with your proposed layout and suggestions, however, to remain consistent with other Districts and to minimize potential problems it is suggested that one primary plat be used for contiguous groups of surveyed lots.

One lot number could be used for an area containing several unsurveyed lots. This should be avoided, if at all possible. If it is found necessary, a notation should be made on the plat that the "lot number represents several unsurveyed parcels of different ownerships." When these parcels are to be subdivided and each parcel within has been surveyed, a second plat should be made and treated as a parcel split in the "plat and parcel numbering system" manual.

All plats should be oriented with north towards the top of the sheet and conforming to issued standards.

Preplanning of plat numbers will not be as easily done doing it the above way, however, careful preplanning can insure plat numbers designating geographical areas.

Due to the size of Yap, the area is small enough so that the plat numbering system provides more than enough numbers to draw upon that will prevent any trouble running out of plat numbers. It is roughly estimated that if each plat only included one acre of surveyed land you would still have sufficient plat numbers available. This allowance will enable Yap to use larger scales for mapping and this will provide for clarity needed in depicting your relatively small lots.

We are in the process of checking the survey data shown on your plat and, when finished, you will be sent the results.

Paul D. Dennis

SIGNATURE	
HC	
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SIGNATURE	
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July 14, 1971
Serial: 178.80.5
178.80.5

MAR 71 ORIG.....C/L&S
INFO.....D/RD

Senior Land Commissioner, Yap District

Chief, Lands and Surveys

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Paul D. Dennis

ORIGINATOR	<i>[Signature]</i>
NOTING	
DATE	July 14, 1971
SERIAL	178.80.5
FILE NO.	178.80.5
NO	
AG	
ED	
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PA	
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2010 RELEASE UNDER E.O. 14176

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178.80.5

MAN 71 ORIG.....C/L&S
INFO.....D/RD

January 28, 1971

Messrs. Ingin and Tommas
Womayan Village
Cagil Municipality
Tep, Western, Caroline Islands

Dear Sirs:

By this letter the Trust Territory Government acknowledges acceptance of an additional 963 concrete survey markers. Together with the 1037 markers you delivered in December 1970, you have delivered 2,000 markers which have been accepted by the Government.

These markers were constructed pursuant to Contract No. Y-71-046-1 dated July 3, 1970. As Contractor under this contract you have complied with its terms by providing the Government with satisfactory concrete markers within the time period requested.

By copy of this letter, the District Finance Officer is authorized to pay you \$1,200.00 as your third payment according to the terms of the contract.

I have been informed that you do not wish to continue making markers at this time and would prefer to wait a few months before making more markers under this contract. The Government also has no need for additional markers at this time. Please advise the Contracting Officer's Representative, Mr. Michael Killian, when you wish to continue making markers. Please notify him at least five months prior to the time you wish to begin so that additional funds can be prevalidated to pay you for the additional work.

Sincerely,

Leonard Q. Aguigat
District Administrator

cc: District Finance Officer
Senior Land Commissioner
Chief, Lands and Surveys ✓



178.80.5

178.80.5

January 28, 1971

Messrs. Ingin and Tammad
Womayan Village
Cagil Municipality
Yap, Western Caroline Islands

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Sincerely,

Leonard Q. Aguigui
District Administrator

cc: District Finance Officer
Senior Land Commissioner
Chief, Lands and Surveys ✓



178.80.5

December 29, 1970

Messrs. Ingin and Tammad
Womayan Village,
Cagil Municipality
Yap, Western Caroline Islands

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By a copy of this letter, the District Finance Officer is authorized to pay you \$1,150.00 as your second payment according to the terms of the contract.

I have been informed that you do not wish to continue making markers at this time and would prefer to wait a few months before making the next group of markers called for under the contract. Since the Government has enough markers for its needs at this time, your request to delay further construction is granted. The Contracting Officer's Representative, Mr. Michael Kilian will inform you when the Government would like you to begin construction of the next group of markers.

Sincerely,

Leonard Q. Aguigui

cc: District Finance Officer
Senior Land Commissioner
Chief, Lands and Surveys



178.80.5

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Wanayan Village,
Oagil Municipality
Yap, Western Caroline Islands

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Sincerely,

Leonard Q. Aguigui

cc: District Finance Officer
Senior Land Commissioner
Chief, Lands and Surveys



178. 80. 5

Senior Land Commissioner, Yap District

Assistant Chief, Lands and Surveys

Vehicles, Land Cadaster Program

Your memorandum of September 14, 1970 was reviewed.

I cannot understand why you should be "surprised" as to my understanding that six vehicles are assigned to Yap Land Management and the Commission.

Your confirmation of the fact that six vehicles are there makes the statement sound ludicrous. Since Yap does not submit regular vehicle reports to this office, it is also difficult for us to be up to date as you are, of all your vehicle problems. Action for survey of a capital equipment item is purely a district matter and is to be accomplished at the District level. We have not been notified of this action being initiated or completed relative to any of your vehicles.

You stated that a Mitsubishi jeep, 3 years old, should also be swapped off. Again, this is a district matter, but I cannot understand why a jeep, only three years old, has been reduced to the need of survey. The "unreliability" of the two year old Chevrolet Pickup is also an item of concern. The other Districts do not seem to be plagued with the same problems on vehicles of the same make and vintage.

The reason for such long delays in securing repairs is not understood. Just what priority does Land Management receive in securing needed repairs? A vehicle waiting for a month or two in Public Works for repairs, when needed desperately, does not seem to indicate that Land Management Programs have such priority. Just how is a priority established by Public Works for vehicles?

I am shipping the jeep assigned to my staff to Yap today. This, in addition to two others new vehicles that are expected shortly, should certainly resolve your vehicle problems as long as they are all operating properly. However, I cannot do much for you if you can't get them when necessary. Replacement of vehicles that are in the shop for repairs by new vehicles certainly isn't the right answer.

I appreciate your interest in having Mr. Tesme assist you on your Cadaster Program. Your need for his assistance was recognized by the Territorial Surveyor. I hope you realize that Mr. Tesme is the only assistant at this time the Territorial Surveyor has and is another sacrifice this office has made in order to assist you in your survey program. However, the Territorial Surveyor is still concerned about existing surveys.

REF: dba

DATE: 12, 1970

SERIAL: 127000

FILE: 178. 80. 5

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Senior Land Commissioner, Yap District

Assistant Chief, Lands and Surveys

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RPERRY: dbs

DATE: 22, 1970

SERIAL: LS7009

FILE: 179.00.9

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Page 2.

The Yap Communication Transmitter Site 1906/00 is one of them. Some problems exist relative to the survey and Teume was briefed as to what he should do to find out what is wrong. It is requested that he, Mr. Rodriguez, secure the answers needed for approval of the map. If the answer must come from the field, they are not available here.

It is expected that the Territorial Surveyor will travel to Yap the end of this month and he will discuss the above matters with you at that time.

Kase Yamada

RPERRY: dbs

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The Yap Communication Transmitter Site 2006/90 is one of them. Problems exist relative to the survey and Temme was briefed as to what he should do to find out what is wrong. It is requested that he, Rodriguez, secure the answers needed for approval of the map. The answer must come from the field, they are not available here.

It is expected that the Territorial Surveyor will travel to Yap the end of this month and he will discuss the above matters with you at that time.

Kono Yamada

RPERRY: dba

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INFO.....D/R&D

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ET
UNCLAS X PASS TO HQLS X FOR INFO OF TRAVELERS TO YAP FROM YOUR OFFICE CMM HAROLD TEMME WILL BE ON LONG FIELD TRIP SURVEYING ELEM SCHOOL SITES FROM SEPT 30 TO OCT 14 X MIKE KILIAN WILL BE ON LONG FIELD TRIP SEPT 30 TO OCT 11 NEGOTIATING ACQUISITION OF LAND FOR SCHOOLS AND EVALUATING CADASTER PROGRAM FOR OUTER ISLANDS X YLMO
BT

Memo prepared 7/24/70 by

Should the Sena Land Commissioner (Mike Kilia) involve himself in LM functions (Section 1025 of TT Code states SLC should devote full time to work of Land Commissioner). There is grave danger in this dual role

NNNN

of better incl 24 Sep 70



IN WARD 2716

Action: Mr. Perry 178.80.5

SEP 23 05 08 70

ACTION.....C/L&S
INFO.....D/R&D

ACTION

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3 X PASS TO HQLS X FOR INFO OF TRAVELERS TO YAP FROM YOUR
E CMM HAROLD TEMME WILL BE ON LONG FIELD TRIP SURVEYING
SCHOOL SITES FROM SEPT 30 TO OCT 14 X MIKE KILIAN WILL BE
NG FIELD TRIP SEPT 30 TO OCT 11 NEGOTIATING ACQUISITION OF
FOR SCHOOLS AND EVALUATING CADASTER PROGRAM FOR OUTER ISLANDS

Memo paper 7/2/70 by

*Send the Senior Land Commissioner (Mike
Kilian) involve himself in L&M functions.
Under 1025 of TT Code states she
should devote full time to work
of Land Commissioner). There is
grave danger in this duality*

11 of books incl 24 Sept

INWARD 2716

from: Mr Perry 178.80.5

PDennis
PDENNIS:mtg

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September 24, 1970	
Serial: 7594	
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MEMORANDUM

To: District Administrator, Palau
District Administrator, Yap
District Administrator, Truk
For: District Land Management Officers
Senior Land Commissioners

From: Chief, Lands and Surveys

Subject: Plat and Parcel Numbering System and Recording Procedures

The enclosed booklets concerning the above subject are furnished to the Senior Land Commissioner, District Land Management Office and the District Surveyor in performing their duties in connection with the Micronesian Land Cadaster Program.

A lot of thought and effort has gone into the formulation of the instructions contained in the booklet. We feel the instructions are clear and complete. We request your cooperation in implementing these new systems during the next few months. They will be discussed thoroughly during the approaching 1970 Lands and Surveys Conference. Please be familiar with the content of the booklets.

If you have any questions which must be answered before the conference, don't hesitate to write, dispatch, or radio.

Paul D. Dennis

cc: Sr. Land Commissioner
District Land Management Officer
District Surveyor

Enclosures

MEMORANDUM

To: District Administrator, Palau
District Administrator, Yap
District Administrator, Truk
For: District Land Management Officers
Senior Land Commissioners

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Paul D. Dennis

cc: Sr. Land Commissioner
District Land Management Officer
District Surveyor

Enclosures

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September 4, 1970
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CADASTRAL SURVEYOR, ARRIVING AUGUST 31 X PLEASE ARRANGE FOR
ACCOMMODATIONS X PAUL D. DENNIS DENIS

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UNCLAS X PASS TO DISTRICT LAND MANAGEMENT OFFICER X HAROLD THOMAS,
CADASTRAL SURVEYOR, ARRIVING AUGUST 31 X PLEASE ARRANGE FOR
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District Administrator, Yap District

Chief, Division of Lands and Surveys

Assignment of Cadastral Surveyor

I am temporarily assigning Cadastral Surveyor Harold G. Tomms to the Yap District and have arranged for his arrival there on Aug. 31, 1970.

Mr. Tomms is expected to proceed to Uthi on the next field trip ship to assist Public Works in conducting some necessary surveys.

While in Uthi, I would like him to examine the possibility of proceeding with a mapping program of the major islands in the area.

I am willing to transfer Mr. Tomms to Yap to further support your Land Office and its Cadastral Program should you desire his assistance and if housing can be provided.

It also appears that it will be necessary to reduce the number of U.S.S. surveyors in the District by the end of the year.

Mr. Tomms has been briefed here as to what some of the survey problems are in the District as we see them from here. He has been requested to advise the Land Management Officer as to how some of their problems can be resolved and to work with the Acting District Surveyor in resolving them. He will be available to assist the Acting District Surveyor in any and all survey projects in the District. His varied background should prove most beneficial in training your surveyors.

I trust this meets with your approval - if not, may I have your comments please.

Paul D. Dennis

ORIGINATOR	RPERRY:STG
DATE	August 27, 1970
CLASSIFICATION	SECRET
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District Administrator, Yap District

Chief, Division of Lands and Surveys

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Paul D. Dennis

DIRECTOR
REPLY BY

ROUTING
August 27, 1970
Serial: 178-805
File: 178-805

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PLEASE TO HOLD X SUBJECT SURVEY MARKER CONTRACT X REUR
ON 10000422 JULY 1973 AND MEMO SERIAL LCY0022 DATED JULY 13
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ACTION

JUL 28 07 13 13



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
YAP
Western Caroline Islands
Micronesia

Mr. Edward E. Johnston
High Commissioner
Trust Territory of the Pacific Islands
Saipan - Mariana Islands

July 6, 1970

Dear Mr. Johnston,

The assignment of Mr. Earl Hogan and myself in the Yap District of Micronesia is nearing completion. Before we leave, I wish to let you know that I have enjoyed my assignment on Yap, and I am sure I also speak for Mr. Hogan.

Our main duty was to establish a supplemental triangulation network to control the municipal, village and private boundary work which is underway.

I wish to express my appreciation for the excellent cooperation that we have received during these past six months. Mr. Leonard Aguigui, District Administrator in Yap, has created a good moral support in the interest he has shown in our work. He made our stay on Yap as comfortable as possible by furnishing us with a house at the beginning of our assignment.

We have worked closely with Mr. Mike Kilian, Acting Senior Land Commissioner in Yap. He was constantly interested in the progress of our work, and his cooperation and help facilitated our job tremendously.

This letter would not be complete without mentioning Mr. Fred DuPont, Director of Public Works in Yap. Through his cooperation, our vehicles were kept in good running condition and any repair work was taken care of immediately. Boats were furnished whenever needed and many miscellaneous requests were cheerfully granted.

Our stay in Yap has been enjoyable and challenging, and will be remembered for many years.

Sincerely yours,

Lucien C. Kennedy
Lucien C. Kennedy
Supervisory Civil Engineer

cc: C. Eckhardt
S. Schroeder
R. Perry

178.80.5

178.80.5



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
YAP
Western Caroline Islands
Micronesia

July 6, 1970

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High Commissioner
Trust Territory of the Pacific Islands
Saipan - Mariana Islands

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Sincerely yours,

Lucien C. Kennedy
Lucien C. Kennedy
Supervisory Civil Engineer

cc: C. Eckhardt
S. Schroeder
R. Perry

178.63.5

MEMORANDUM FORM 11-570C

TRUST TERRITORY OF THE PACIFIC ISLANDS

Office of the District Administrator, Yap

TO : Chief, Lands and Surveys

DATE: July 10, 1970
Serial: LMY0020

FROM : Acting Senior Land Commissioner, Yap

SUBJECT: Survey Marker Contract

In reference to your dispatch R090040Z July, 1970, attached is a copy of "Agreement for Construction of Concrete Survey Markers" which was executed on May 25, 1970. Attached also is a copy of my Serial: LCY001h of May 25, 1970.

Please obligate the necessary funds so that construction can begin on these markers.

J. Michael Kilian
J. Michael Kilian

Attachments: a/s

cc: District Administrator, Yap

Document removed

17880.5





Kilian

on can begin on

ached is a copy of
which was executed
:1200011 of MAY 25,

DATE: July 10, 1970.
Serial: LMT0020

District Administrator, Yap

TRUST TERRITORY OF THE PACIFIC ISLANDS
Office of the District Administrator
Yap, Western Caroline Islands

April 3, 1970

Mr. Tammad and Mr. Ingin
Wonayan Village,
Gagil, Yap District

Dear Sirs:

As per the discussion today between you and the Contracting Officer's Representative, Mr. Michael Kilian, and pursuant to Article 9 of the Agreement for Construction of Concrete Survey Markers, signed by you this day, the following changes are added and incorporated into said agreement:

1. Written notice to proceed from the Government to the Contractor as mentioned in Article 3 will not be given until such time as reinforcement steel is available for purchase at the District Supply Office, Yap; and
2. All markers will be kept shaded by a cover of coconut leaves until the time of delivery so that they are properly cured, and, because of the scarcity of water, they need not be watered; and
3. Sand may be obtained from beaches and need not be washed but must be screened to clean out non-sand materials; and
4. Aggregate should be approximately 3/4 inch to 1 inch in diameter and may be obtained from beaches and other village areas and must be free of soil but need not be washed with fresh water; and
5. If unwashed sand and/or aggregate is used, a 20-marker batch of concrete shall contain at least 2 1/2 bags of portland cement; and
6. The design submitted with you March 18, 1970 bid proposal for constructing concrete forms is acceptable to the Government.

Agreed this third (3rd) day of April, 1970.

Leonard Q. Aguilera

Leonard Q. Aguilera
Special Contracting Officer
for the High Commissioner,
Trust Territory of the
Pacific Islands

Tammad
Tammad

Ingin
Ingin

We, the undersigned witnesses, hereby certify that Tammad and Ingin's signatures were subscribed in our presence this third day of April, 1970 and that the subscribers of the above signatures are personally known to us and that we saw them affix their signatures.

J. Michael Kilian
J. Michael Kilian

Fran DeIngin
Fran DeIngin

3. Sand may be obtained from beaches and need not be washed but must be screened to clean out non-sand materials; and
4. Aggregate should be approximately 3/4 inch to 1 inch in diameter and may be obtained from beaches and other village areas and must be free of soil but need not be washed with fresh water; and
5. If unwashed sand and/or aggregate is used, a 20-meshor batch of concrete shall contain at least 2 1/2 bags of portland cement; and
6. The design submitted with you March 18, 1970 bid proposal for constructing concrete forms is acceptable to the Government.

Agreed this third (3rd) day of April, 1970.

Leonard O. Aguilera
 Leonard O. Aguilera
 Special Contracting Officer
 for the High Commissioner,
 Trust Territory of the
 Pacific Islands

Tamam
 Tamam

1 # 11 -
 Ingin

We, the undersigned witnesses, hereby certify that Tamam and Ingin's signatures were subscribed in our presence this third day of April, 1970 and that the subscribers of the above signatures are personally known to us and that we saw them affix their signatures.

J. Michael Killian
 J. Michael Killian

Fran Deingin
 Fran Deingin

May 25, 1970
 Serial:LCY0014

To: Chief, Lands and Surveys
 From: Acting Senior Land Commissioner, Yap
 Subject: Agreement for Construction of Concrete Survey Markers
 for Micronesian Land Cadaster Program

Attached are two copies of said contract which have been executed in the district. Two men from Garil Municipality have contracted to construct the markers. They plan to use sand from beaches in Bagil and will gather much of the aggregate from beach and stream areas. Since there normally is a sand and aggregate shortage on Yap, we hope that they will be able to keep in continuous production by using local supplies of these materials.

You will note that because of the "cottage industry" nature of the contractor's operation, certain changes have been made regarding the concrete mixture to be used and the time when the contractor will be given notice to proceed with construction. Because of the poor fresh water supply on Yap and a dependence upon sand and aggregate from the lagoon (dredged or beach sand; crushed coral aggregate), it is not realistic to expect the contractor to be able to use washed sand and aggregate. To compensate for this, a richer cement mixture is required. Currently, no #3 re-bar or portland cement is available on Yap. Notice to proceed will not be given until these materials are available.

The contractor has not done this type of work before. This is their first business venture. The U.S.A. advisor helped them prepare their bid and will help them with their first few concrete pourings to see that they get started properly. We are hopeful that these two men are successful and will be able to continue to supply us with markers.

Would you please prevalidate \$3,500.00 to the Yap District Finance Office for construction of 2000 markers under this contract. Once funds have been prevalidated, the District Administrator will assign a contract number.

I will keep you informed when notice to proceed is given to the contractor and will advise you periodically of their progress constructing the survey markers.

J. Michael Killian

Attachment: Agreement (2 copies)

cc: Director, Resources and Development
 Director, Finance
 District Administrator

May 25, 1970
Serial:LCY00LH

To: Chief, Lands and Surveys
From: Acting Senior Land Commissioner, Yap
Subject: Agreement for Construction of Concrete Survey Markers
for Micronesian Land Cadaster Program

Attached are two copies of said contract which have been executed in the district. Two men from Segil Municipality have contracted to construct the markers. They plan to use sand from beaches in Segil and will gather much of the aggregate from beach and stream areas. Since there normally is a sand and aggregate shortage on Yap, we hope that they will be able to keep in continuous production by using local supplies of these materials.

You will note that because of the "cottage industry" nature of the contractor's operation, certain cautions have been made regarding the concrete mixture to be used and the time when the contractor will be given notice to proceed with construction. Because of the poor fresh water supply on Yap and a dependence upon sand and aggregate from the lagoon (dredged or beach sand; crushed coral aggregate), it is not realistic to expect the contractor to be able to use washed sand and aggregate. To compensate for this, a richer cement mixture is required. Currently, no #3 re-bar or portland cement is available on Yap. Notice to proceed will not be given until these materials are available.

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J. Michael Kilian

Attachment: Agreement (2 copies)

cc: Director, Resources and Development
Director, Finance
District Administrator

ACTION

ACTION.....C/L&S
INFO.....D/R&D

Jul 7 21 36 PM

2020 PHA254

JUL 12 1972
MAIL ROOM
MICRONESIA
PACIFIC ISLANDS

TO HCL. REUR SERIAL 157155 MEMO REF OUR SERIAL
14 MEMO DATED MAY 25 1970 CONCERNING PREVALIDATION OF DOLLARS 3,500
CONTRACT A ONCE FUNDS HAVE BEEN PREVALIDATED THE
WILL A SIGN A CONTRACT NUMBER W Y LC

I INWARD 2620



Notice to Proceed
Action Taken
JMK

178.80.5

ACTION

ACTION.....C/LES
INFO.....D/R&D

04 7 21 36M

CHAS54

12 JUL 72
YAP
COMTERPACIS SAIPAN

TO HCL A REUR ARIAL 187155 NEMO REF OUR SERIAL
14 NEMO DATED MAY 23 CONCERNING PREVALIDATION OF DOLLARS 2,500
CONTRACT A ONCE FOUND HAVE BEEN PREVALIDATED THE
AD WILL A WITH A CONTRACT NUMBER W Y LC

NWARD

2620



*Action Taken
JPM*

178.80.5



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
YAP
Western Caroline Islands
Micronesia

July 6, 1970

Mr. Edward E. Johnston
High Commissioner
Trust Territory of the Pacific Islands
Saipan - Mariana Islands

Dear Mr. Johnston,

The assignment of Mr. Earl Hogan and myself in the Yap District of Micronesia is nearing completion. Before we leave, I wish to let you know that I have enjoyed my assignment on Yap, and I am sure I also speak for Mr. Hogan.

Our main duty was to establish a supplemental triangulation network to control the municipal, village and private boundary work which is underway.

I wish to express my appreciation for the excellent cooperation that we have received during these past six months. Mr. Leonard Aguigui, District Administrator in Yap, has created a good moral support in the interest he has shown in our work. He made our stay on Yap as comfortable as possible by furnishing us with a house at the beginning of our assignment.

We have worked closely with Mr. Mike Kilian, Acting Senior Land Commissioner in Yap. He was constantly interested in the progress of our work, and his cooperation and help facilitated our job tremendously.

This letter would not be complete without mentioning Mr. Fred DuPont, Director of Public Works in Yap. Through his cooperation, our vehicles were kept in good running condition and any repair work was taken care of immediately. Boats were furnished whenever needed and many miscellaneous requests were cheerfully granted.

Our stay in Yap has been enjoyable and challenging, and will be remembered for many years.

Sincerely yours,

Lucien C. Kennedy
Lucien C. Kennedy
Supervisory Civil Engineer

cc: C. Eckhardt
S. Schroeder
R. Perry

178.80.5



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
YAP
Western Caroline Islands
Micronesia

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High Commissioner
Trust Territory of the Pacific Islands
Saipan - Mariana Islands

July 6, 1970

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Lucien C. Kennedy
Lucien C. Kennedy
Supervisory Civil Engineer

cc: C. Eckhardt
S. Schroeder
R. Perry

178.80.5

District Administrator, Yap District
For: District Land Management Officer
Chief, Division of Lands and Surveys

Personnel Working with Cadaster Surveyors

In order to evaluate the Micronesian Land Cadaster Program with regard to the training of survey personnel we are asking you to prepare a list of personnel, both regular employees and WAE, who have been working for the Cadaster Surveyors in your district.

Please list the following information for each employee, Name, Grade, Date of Employment, Type of work performed. We ask that you be quite specific in listing the type of work performed. We are interested to know exactly what kinds of tasks each employee is capable of performing, for example which employees are qualified as party chief, instrument men, chainmen, brush cutters etc.

Your response as soon as possible will be greatly appreciated.

Paul B. Dennis

cc: District Land Management Officer, Yap District

MCLEMMENS:dbs

ORIGINAL	
DATE	July 7, 1970
SERIAL	1457196
FILE	178.80.5
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coming week. The plan is to set up a monument with concrete, in the hope we will get someone to replace me in the near enough future that the lines can be surveyed when and if my replacement ever arrives. If no one does replace me soon, I feel that the work done to date will deteriorate rapidly and much will become lost or destroyed. If good, qualified surveyors are kept at work on Yap, working on the Land Cadaster Project, I see no reason why Yap couldn't be the first District to complete this work.

4/2 1953

Noted and file

But it will take steady, progressive effort on the part of all concerned to bring this program to a satisfactory conclusion. Any sort of "hit or miss" approach to a project of this size just is bound to end in failure or mass confusion.

I have pretty much enjoyed my six months "tour" in Micronesia. There has been more than enough work to do, and in spite of some difficulties and frustrations it hasn't been at all bad. I have had good acceptance by the Yapese people, was fortunate to have two very good field assistants, and the full co-operation by Mike Killian. If I said I was "sorry" to be going home, that would of course be an untruth. Six months away from my home and family is just too long, when one doesn't HAVE to be gone so long. I have thought at times of applying for a two year contract, if available, but had to say NO to that idea when I investigated the education system out here. With five children in school a two year "tour" just doesn't seem feasible.

If, at any time, something comes up about any of the work I have done, or you have any questions about it, please feel free to write to me, at the BLM office in Portland, and I'll do all I can to help.

Very truly yours,

C. Albert White

C. Albert White,

Cadastral Surveyor, BLM

Senior Land Commissioner, Yap District

Chief, Division of Lands and Surveys

Survey Monuments

This is in answer to your inquiries concerning the above subject.

My personal opinion concerning the size of survey monuments is - they should be at least 24 inches long and set 16-20 inches in the ground, with as few exceptions as practical. Undoubtedly there will be situations when 18 in. (or less) monuments should be used.

I prefer not to sit here at Headquarters and dictate to the District the length of survey monuments to be used. Use your own judgment. Your primary concern should be "the test of time."

Concerning the money for the monuments-no prevalidation can be made if the contract has been given a TF-number. Invoices should be submitted directly to Headquarters for payment. Please advise if the contract does not bear a TF-number, and a prevalidation will then be made.

Paul D. Dennis

cc: District Administrator, Yap District

PDENNIS:dbs

Dennis
PDENNIS

JULY 1, 1978
Serial: 157128
178.80.5

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SIGNATURE

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178.80.5

Senior Land Commissioner, Yap District

Chief, Division of Lands and Surveys

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Paul D. Dennis

cc: District Administrator, Yap District

PDENNIS:dbs

178.80.5

Dennis
PDENNIS

July 1, 1970
Serial 18718
218179.00.5

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ACTION

JUN 70 ACTION.....C/L&S
INFO.....D/RD

RECEIVED
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218179.00.5
COMPTERPACK - AIPAN

RE: SUBJECT LAND CADA TER
BY SURVEY CONTRACT REF OCA SERIAL LCY3214
DENO OF MAY 15 AND DISPATCH RELEASED JUNE 1970 & PLS ADZ
3,500 WILL BE PREVALIDATED & PL
CAN BE MADE TO REDUCE SIZE OF MARKER TO
FOUR INCHES AND LOWER COST PER MARKER & YSLC

JUN 25 01 21 1970

J

INWARD 2597

178.80.5
memo sent 7/1/70
PH



ACTION

JUN 78 ACTION.....C/L&S
INFO.....D/RD

NA 78
YAP
PERPACI - AIPAN

RE: SUBJECT LAND CADASTER
INSTRUMENT CONTRACT REF OJA RYAL LCY0214
MAY 25 AND DISPATCH REL0052 JUNE 1970 & PLS ADZ
WILL BE PREVIOUSLY * * * * *
CAN BE MADE TO REDUCE SIZE OF MARKER TO
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7.25 01 211

NWARD 2597

178.80.5

memo sent 7/1/70
PDD



MEMORANDUM FORM 67-1000

File

TRUST TERRITORY OF THE PACIFIC ISLANDS

Office of the District Administrator, Yap

TO : Chief, Lands and Surveys

FROM : Acting Senior Land Commissioner, Yap

SUBJECT: (a) Progress Report on Land Cadaster Program
(b) Approval of Ownership Interests to be Registered in the Yap Islands

DATE: June 16, 1970
Serial: LCY0018

(a) Progress Report. During the past six months, a survey control system (both triangulation and traverse points) has been completed for the southern half of Yap Island and the triangulation network has been completed for the northern half. During the past month surveys have begun on municipal boundaries. The Giliman-Rull and Giliman-Kanifay boundaries have been surveyed. Most of the Kanifay-Rull boundary will be finished this week.

It is our plan for the immediate future to concentrate on the southern portion of Yap Island, surveying village boundaries in Giliman, Kanifay and South Rull. We hope to appoint the first land registration team for Yap early next fall. They will begin initially on a relatively small area (perhaps only two villages) until we and they gain more experience. The first team will work as a pilot project. If the work goes smoothly other villages may be added to its scope of operations and more teams will be appointed.

A forty minute radio program in which various Yapese leaders answered questions concerning the land cadaster program was broadcast during the month of April with very good results. Before this program very few people understood the nature of the program. It was estimated that perhaps 80-90% of the Yapese did not favor the program at that time, mainly because of lack of understanding why it was needed. Since the radio broadcast, I would estimate that at least half of the Yapese, while not enthusiastic about the land cadaster program, at least are now willing to have their land surveyed and title registered. As our public information effort increases in the next few months, I expect that by next fall there will be only a few who oppose the program.

Many Yapese now have a "wait and see" attitude about the program--they do not know if they want it until they see how it will work in practice. I hope that the pilot land registration team work will help with our education program. If that work goes smoothly, I am sure that most Yapese will cooperate with the program.

(b) Ownership Interests to be Registered in the Yap Islands. One of the main concerns people have is how their land ownership is to be registered. Their interests will be written on a certificate of title. It would be tremendously helpful if we could have a radio program telling the people exactly what

178.80.5



File

TERRITORY OF THE PACIFIC ISLANDS

Office of the District Administrator, Yap

Chief, Lands and Surveys

DATE: June 16, 1970
Serial:LCY0018

Acting Senior Land Commissioner, Yap

- (a) Progress Report on Land Cadaster Program
- (b) Approval of Ownership Interests to be Registered in the Yap Islands

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178.80.5

ownership interests will be recognized. It would be appreciated if you would review the attached sample "Determination of Ownership" and "Certificate of Title" forms and approve inclusion of this number of interests in our title registration work.

Attached is a "Brief Description of Yapese Land Tenure" which was prepared to help explain why these types of interests need to be registered.

Please advise if this format for registration of ownership interests is acceptable. Once they are approved we will include them in a radio program explaining more about the cadaster program.

J. Michael Kilian
J. Michael Kilian

- Attachments: a) Sample "Determination of Ownership" and "Certificate of Title" forms;
b) "Brief Description of Yapese Land Tenure"

cc: District Administrator
Director of Resources and Development
Attorney General

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J. Michael Kilian
J. Michael Kilian

- Comments: a) Sample "Determination of Ownership" and "Certificate of Title" forms;
b) "Brief Description of Yapese Land Tenure"

District Administrator
Director of Resources and Development
Attorney General

BRIEF DESCRIPTION OF YAPSE LAND TENURE

Each parcel of land in Yap is traditionally owned by a household, or extended family, which takes its name from a certain house platform (Manjin a davis). Each household owns many parcels of land which may be situated at several separate locations throughout the village.

The spokesman for most of the ownership rights of the household land is the tafen who normally is the oldest male member of the household. He has the power to transfer and use the land, but he has a duty to consult other members of the household before he transfers rights to use land to non-household members. Tafen rights are inherited patrilineally—either brother to brother or father to son.

The mafen is normally a close male relative of the tafen or a former tafen through a paternal aunt or great aunt of the tafen; i.e. tafen's father's sister's son. He has power to determine inheritances by naming newborn children (certain lands are connected to the ancestral names which are used to name persons born into the household). He has the general duty of guarding the ancestral interests in the property by seeing that the tafen properly performs his responsibilities as spokesman for the household interests. A mafen also will act as spokesman for the household land if the tafen is not of age or if the tafen line of succession ends for want of a male heir.

Often when a household owns land in an area far distant from the residence of the tafen or mafen, a person who lives near the land is appointed to act as trustee of the household interest in the land. He may use the land and authorize others to use it, but he cannot transfer the household ownership rights—only the tafen can do this after other members of the household have agreed to the transfer.

Many of the land parcels in Yap are owned by low caste households which are considered to be connected to, or part of, certain high caste households. It is believed that originally the high caste households owned these land parcels and gave the low caste households rights to use the land as long as the low caste households followed certain social customs regarding duties owed to the high caste households. A high caste household has the right to chase the low caste household off the land if it fails to perform its duties to the high caste household, but the low caste household cannot be bothered in its use of the land if it acts properly. The tafen of the high caste household is suron, or overlord, of the low caste household lands. It is estimated that over 90% of the Yapese still recognize the landlord-serf relationship of the caste system.

J. Michael Kilian
Acting Senior Land Commissioner
Yap District

TRUST TERRITORY OF THE PACIFIC ISLANDS



YAP DISTRICT LAND COMMISSION

DETERMINATION OF OWNERSHIP

This Determination of Ownership is issued by virtue of Section 1032 of the Code of the Trust Territory of the Pacific Islands after due and public notice to all parties of record and public hearings held by the Land Registration Team of Guror-Machasif Villages. The Land Registration Team has determined that certain real property named "Bivah" located in Guror Village and described as follows: shown as Lot No. 55522 containing an area of 1.111 square meters on Division of Lands and Surveys Drawing No. 5999/70 on file with the Clerk of Courts, Yap District; is the property of: Moan, tafen, of Kanif Village; Tinan, mafen, of Lev Village; and Fisir, trustee, of Guror Village--who represent all household ownership interests of the kensin a davif named "Ke'el"; and Faiman of Eto Village, tafen of kensin a davif named "Tablau" and suwon of the kensin a davif named "Ke'el"; as a fee simple estate; subject to the estates, easements, liens, use rights, charges and encumbrances noted as follows: indefinite use rights for residential and agricultural purposes granted to Tarnagan of Guror Village

Determined this _____ day of _____, 19____.

By: _____ Senior Land Commissioner
Yap District Land Commission



Accordingly, unless an appeal is taken to the TRIAL DIVISION OF THE HIGH COURT within 120 days from the date of this determination, it is hereby ordered that the above described land be registered in the Office of the Registrar for the District and that, in accordance with Section 1041 of the Code of the Trust Territory of the Pacific Islands, a Certificate of Title be issued setting forth the names of all persons or groups of persons holding interest in the property as described in this determination.

6

TRUST TERRITORY OF THE PACIFIC ISLANDS



YAP DISTRICT LAND COMMISSION

CERTIFICATE OF TITLE

This certificate is issued by virtue of Section 1041 of the Code of the Trust Territory of the Pacific Islands and pursuant to a determination of the Yap District Land Commission made on the thirty-second day of February in the year nineteen hundred and seventy numbered Y0000001 on the files of the Yap District Land Registry. This is to certify that the parcel of land named "Biyah", situated in Guror Village, and more particularly described as follows: shown as Lot No. 5555 containing an area of 1,111 square meters on Division of Lands and Surveys Drawing No. 5999/70 on file with the Clerk of Courts, Yap District:

is the property of: Moon, tafen, of Kanif Village; Tinan, Mafen, of Ley Village; and Figir, trustee, of Guror Village--who represent all household ownership interests of the kengin e davif named "Kefel"--; and Faimau of Eto Village, tafen of the kengin e davif named "Tablau" and suwon of the kengin e davif named "Kefel";

as a fee simple estate; subject, however, to the estates, easements, liens, use rights, charges and encumbrances noted as follows: indefinite use rights for residential and agricultural purposes granted to Tharnsan of Guror Village

and subject to the following as stated in Section 1041 of the Code of the Trust Territory of the Pacific Islands:

- a. Any rights of way there may be over the land in question;
b. Any taxes on the land in question which have become due within two (2) years prior to the issuance of the Certificate; and
c. Any lease or use right for a term not exceeding one (1) year.

In witness whereof, I have hereunto set my hand and caused my official seal to be affixed this ___ day of ___, 19__.

By: Senior Land Commissioner Yap District Land Commission



Registered this ___ day of ___, 19___, in Volume ___ Book ___ at page ___ at the Land Registry Office at Colonia, Yap Island, Yap District.

District Land Registrar

Chief, Lands & Surveys

Margorie Smith, Land Cadaster Publicity Specialist

June 8, 1970
Serial:LCY0016

Acting Senior Land Commissioner, Yap

Land Cadaster Pamphlet for Yap District

Attached is a copy of the text for a land cadaster pamphlet which we have revised somewhat to make it more pertinent to conditions in Yap District. We have translated most of the pamphlet into Yapanese--attached is a copy of an earlier draft of the pamphlet with its translation. Fran Defagin can supervise the remaining translation work which needs to be done.

I suggest that the English and Yapanese versions be printed side-by-side so that the reader can refer to either version. Many Yapanese can read a little English but cannot read an entire English version without referring to the Yapanese. Also, persons reading the Yapanese version like to be able to refer to the English version from time to time. A printing of 1500 copies of a Yapanese-English version pamphlet should last us for several years.

You should allow for about 15-20% more space for the Yapanese translation over the space needed for the English version.

Please advise if the attached revised pamphlet is satisfactory and when you require the translation to be completed.

J. Michael Kilian

Attachments: a/s

cc: District Administrator
Director, Public Affairs
Director, Resources and Development
Chief, Lands and Surveys

178.80.5

23/ZDK ZDK

ACTION

JUNE 70 ACTION..... J/L&S
INFO..... D/RD

OFFICE OF THE DISTRICT ADMINISTRATOR
CENTRAL OFFICE
P.O. BOX 100
DUNEDIN

7
MARIANAS TO HCLS & WE HAVE BEEN INFORMED THAT MARIANAS
CONTRACT SPEC. HAVE BEEN CHANGED FROM 24 INCH
MARKER TO 18 INCHES & WE WOULD LIKE TO EXECUTE AN ADDENDUM TO

EXISTING CONTRACT TO PROVIDE FOR 18 INCH MARKER. A MARKER
HAVE NOT BEEN USED YET. I BELIEVE THIS TO BE MORE SUITABLE SIZE
AND COST TO BE LESS THAN 24 INCH PER MARKER AND EXPECT
PRODUCTION SCHEDULE CAN BE FOLLOWED EASIER & PLS ADZ & YSLC

100-10-100

*memo 7/1/70
PAB*

INWARD 2534

*action: Dennis
June 4, 1970*

178.80.5



22/ZDK ZDK

ACTION

JUNE 70 ACTION.....C/L&S
INFO.....D/RL

173
SAL
CONFIDENTIAL: SAIPAN

TO HQS & WE HAVE BEEN INFORMED THAT MARIANA
CONTRACT SPEC. HAVE BEEN CHANGED FROM 24 INCH
LENGTH TO 18 INCHES & WE WOULD LIKE TO EXECUTE AN ADDENDUM TO

EXISTING CONTRACT TO PROVIDE FOR 18 INCH MARKER. A MARKER
HAVE NOT BEEN MADE YET. BELIEVE THIS TO BE MORE SUITABLE SIZE
WILL COST TO BE LESS THAN 24 INCH PER MARKER AND EXPECT
PRODUCTION SCHEDULE CAN BE FOLLOWED EASIER & PLS ADZ & YSLC

7

3 01 207

memo 7/1/70
PWB

INWARD 2534



tion: Bureau
and 4, 1970

178.80.5

TRANSFER FORM TT-570C

TRUST TERRITORY OF THE PACIFIC ISLANDS

Office of the District Administrator, Yap

TO : Mr. Paul Dennis
c/o Division of Land Management

DATE: 6/3/70

FROM : Administrative Assistant,
Thru: District Administrator *J. Hoyer*

SUBJECT: Request from Mr. Al White

Mr. Al White of the Micronesia Cadastral Survey Program in Yap came to my office yesterday, 6/2/70, and inquired concerning issuance of a Trust Territory Government travel authorization and travel request for his travel from Yap to his point of recruitment. I advised him that the Yap District does not have any authorization to issue travel authorization as requested by him, and that you would be the person to contact concerning his request.

In pursuing the conversation further with Mr. White, it appeared that he was most concerned about the 25% surcharge with which the Trust Territory Government would be charged should he write his own T/R, and he felt that he would be saving the TT Government 25% of the total travel cost if we issued his T/A and T/R.

We are at your service and will do whatever you think is feasible and acceptable to all concerned. Please let me hear from you as soon as possible. Mr. White is scheduled to depart Yap on or about June 29, 1970.

Harriet Weinrich
Harriet Weinrich

action: Bureau
June 5, 1970
note sent to all 6/17/70 RP
178.80.5



TRUST TERRITORY OF THE PACIFIC ISLANDS

Office of the District Administrator, Yap

TO : Mr. Paul Dennis
c/o Division of Land Management

FROM : Administrative Assistant, Yap
Thru: District Administrator *[Signature]*

SUBJECT: Request from Mr. Al White

DATE: 6/3/70

Mr. Al White of the Micronesia Cadastral Survey Program in Yap came to my office yesterday, 6/2/70, and inquired concerning issuance of a Trust Territory Government travel authorization and travel request for his travel from Yap to his point of recruitment. I advised him that the Yap District does not have any authorization to issue travel authorization as requested by him, and that you would be the person to contact concerning his request.

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We are at your service and will do whatever you think is feasible and acceptable to all concerned. Please let me hear from you as soon as possible. Mr. White is scheduled to depart Yap on or about June 29, 1970.

Harriet Weinrich
Harriet Weinrich

note sent to al 6/17/70 RP

178.80.5



MAY 70 ACTION.....EXX C/L&S
INFO.....D/RD

MAY 28 21 13 70 ACTION

ZCZC JHA271 2NR UUUUU
R 280635Z MAY 70
FM DI:TAD YAP
TO HICOMTERPACIS SAIPAN
GRNC

BT
UNCLAS X PASS TO HQLS X ONE POST HOLE DIGGER
URGENTLY NEEDED FOR PLACING MARKERS FOR BOUNDARIES
SURVEYED IN LAND CADASTER PROGRAM X THREE POST HOLE
DIGGER WILL BE NEEDED WITHIN NEXT SIX MONTHS X
SUGGEST THAT HQLS PURCHASE THEM IN QUANTITY FOR TT WIDE
PROGRAM X PLS ADZ IF ONE COULD BE SENT IMMEDIATELY
FOR USE MONUMENTING MUNICIPAL AND VILLAGE BOUNDARIES
X YSLC
BT

NNNN

INWARD 2514

action [Signature] OK: [Signature]
June 1, 1970

178.80.5



MAY 70 ACTION.....EXX C/L&S
INFO.....D/RD

Mar 28 21 1370

ACTION

ZC CHA071 2NR UUUUU
280635Z MAY 70
DI-TAD YAP
HICOMTERPACIS SAIPAN
NC

CLASS X PASS TO HQLS X ONE POST HOLE DIGGER
URGENTLY NEEDED FOR PLACING MARKERS FOR BOUNDARIES
SURVEYED IN LAND CADA-TER PROGRAM X THREE POST HOLE
DIGGER WILL BE NEEDED WITHIN NEXT SIX MONTHS X
SUGGEST THAT HQLS PURCHASE THEM IN QUANTITY FOR IT WIDE
PROGRAM X PLS ADZ IF ONE COULD BE SENT IMMEDIATELY
OR USE MONUMENTING MUNICIPAL AND VILLAGE BOUNDARIES
YSLC

NNNN

INWARD 2514

tion ~~OK~~ OK: P
me 1, 1970
178.80.5



UNITED STATES DEPARTMENT OF INTERIOR
TRUST TERRITORY OF THE PACIFIC ISLANDS

Yap District
Western Caroline Islands
90943

OFFICE OF THE
DISTRICT ADMINISTRATOR

May 20, 1970
Serial:LC70013

To : Chief, Lands and Surveys
From : Acting Senior Land Commissioner, Yap
Subject: Replacement of U.S. Surveyors Assigned to Land Cadaster Program

Our U.S. Interior Department surveyors will soon be leaving and I would like to offer some suggestions concerning their replacement during the July-December, 1970 period. The three surveyors assigned to Yap have done an excellent job during the past four months. Lou Kennedy and Earl Hogan will have established a complete secondary control network for all of Yap Island by the time they leave. They are currently working in the mountainous West Weloy-North Fanif area. Al White has completed control surveys along the main road from Giliman to the Loran Station and has finished control surveys along the main secondary roads in the area from Giliman to Colonia. The Giliman-Bull and Giliman-Kanifay municipal boundaries were staked out last week and are now being cleared and monumented in preparation for Al's surveying. I anticipate that Al will be busy with municipal boundary surveys during the rest of his stay.

Enough control work has been done that I anticipate no further need for control work for some time to come. I estimate that there are at least three years of cadastral surveying to be done before there will be a need to establish secondary control on Gagil-Towil, Map, and Rungung islands. I have discussed this with Lou, Earl, and Al and they agree that it would be wiser to work on cadastral surveying for the next few years on Yap Island until there is a need for cadastral surveys on the other islands. Lou has said that he would be interested in coming back in about three years time and finishing the secondary control for the other islands. He thinks that he could do it by himself during a six month period.

I suggest that only two replacement surveyors be assigned to Yap for the next six month period and that they be informed that their primary task will be cadastral surveying. I do not think that we can keep three survey crews busy. We are finding that it takes about 1 1/2 times as long to mark, monument, and clear municipal boundaries as it does to survey them. The same will be true with village and property boundaries. I expect that every survey crew will need a separate brushcutting and monument placing crew working in advance of the surveyors. Otherwise, the surveyors will not be able to work or will end up spending much of their time supervising brushcutting and monument placing instead of surveying.

action: Perry Dennis
May 22, 1970

ana 5/22/70
178.80.5 PDD



UNITED STATES DEPARTMENT OF INTERIOR
TRUST TERRITORY OF THE PACIFIC ISLANDS

Yap District

Western Caroline Islands

99943

OFFICE OF THE
DISTRICT ADMINISTRATOR

May 20, 1970
Serial: LCT0013

To : Chief, Lands and Surveys

From : Acting Senior Land Commissioner, Yap

Subject: Replacement of U.S. Surveyors Assigned to Land Cadaster Program

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Leon: Leroy Dennis
y 22, 1970

ans. 5/22/70
PWO
178.80.5



-2-

Each brushcutting crew will require a vehicle--for planning purposes, you should anticipate that each U.S. surveyor will require the support of two vehicles, one for his use surveying, and one for use by a brushcutting crew preparing boundaries for future surveys. During the next six month period we can expect the use of only three vehicles--two new jeeps due here in June and the U.S.G.S. Dodge truck. Also, we may be allowed to continue to borrow a Public Works jeep, but we cannot continue to count on this use. With only three or four vehicles we will have a difficult time supporting the survey and boundary marking work. There will be no "extra" vehicles for important work such as holding meetings in villages to explain the cadaster program and for use supporting the work of land registration teams. The Land Commission members will have to spend most of their time in Colonia because there will not be transportation. By doubling-up on the use of our vehicles (using one jeep to deliver two crews to two job sites) we may be able to keep two survey crews working, but we will lose much work time in transporting crews back and forth to work.

I have no preference as to whether B.L.M. or U.S.G.S. surveyors are sent to Yap but it would be preferable if both surveyors are from the same agency. B.L.M. surveyors are more familiar with cadastral surveying than U.S.G.S. men, but U.S.G.S. surveyors could work on topographic field completion for the mapping project when they are not busy on cadastral surveying. There are certain advantages to having either B.L.M. or U.S.G.S. assigned here.

Please advise what your plans are for assigning replacement surveyors to Yap and if there will be any additional vehicles forthcoming for the cadastral program.

J. Michael Kilian
J. Michael Kilian

cc: District Administrator
Territorial Surveyor

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J. Michael Kilian
J. Michael Kilian

cc: District Administrator
Territorial Surveyor

ACTION.....D/R&D
INFO.....C/L&S

MAY 15 21 54 W

ZC7C SHA052
ZNR
R 15 243Z MAY 70
FM DISTAD YAP
TO HICONTERPACIS SAIPAN
GRMC
BT

UNCLAS X PASS TO DIR RES/DEV AND HQLS X RE RC20312Z APR SUBJECT CMM
BID FOR CONCRETE MARKER CONTRACT AT RATE OF ONE DOLLAR SEVENTY FIVE
CENTS PER MARKER FOR FIRST 2000 MARKERS AND ONE DOLLAR SIXTY FIVE
CENTS PER MARKER FOR EACH ADDITIONAL 1000 MARKERS X THIS IS MOST
REASONABLE BID RECEIVED X PLS ADVISE IF BID IS ACCEPTABLE X YSLC
BT

*Send ~~message~~ to Yap stating that bid is
acceptable. Have contract signed and sent to HQs.*

NNNN
52

INWARD 2479



178.80.5

15 21 54 0

ACTION.....D/R&D
INFO.....C/L&S

052

12 MAY 78
D YAP
TERPACIS SAIPAN

PASS TO DIR RES/DEV AND HQLS X RE RC20312Z APR SUBJECT CMM
CONCRETE MARKER CONTRACT AT RATE OF ONE DOLLAR SEVENTY FIVE
R MARKER FOR FIRST 2000 MARKERS AND ONE DOLLAR SIXTY FIVE
R MARKER FOR EACH ADDITIONAL 1000 MARKERS X THIS IS MOST
LE BID RECEIVED X PLS ADVISE IF BID IS ACCEPTABLE X YSLC

*Sent memo to Yap stating that bid is
acceptable. Have contract signed and sent to HQLS.*

NWARD

2479



178.80.5

March 9, 1970
Serial:LS6547
File:178.16.21

MEMORANDUM

TO: Mason Thayer, Cadaster Surveyor, Marshalls
Jerry Knight, Cadaster Surveyor, Truk
Robert Hyatt, Cadaster Surveyor, Saipan
Albert Mito, Cadaster Surveyor, Yap
Norman Donald, Cadaster Surveyor, Palau
Frank Castro, District Surveyor, Ponape

FROM: Territorial Surveyor

SUBJECT: Land Cadaster Program

It is essential that the Chief, Lands and Surveys, be given periodic reports as to the problems and progress of the Land Cadaster Program.

In order for me to keep him apprised of the problems and progress, as he has requested, I must have a periodic report from each District giving me certain basic information.

In order to avoid duplication of effort, you are each designated to submit to me a monthly report. Combine the months of January and February for your first report and then submit your next reports at the end of each month. All facts, suggestions, opinions, etc. you can offer will be appreciated.

You are instructed to review progress and problems with all those within the District directly concerned with the program and it is suggested that you review your report with the District Surveyor and Land Management Officer prior to submission to this office. This will insure correctness and its full effectiveness.

ITEMS OF IMPORTANCE

- Your report should be directed to: Territorial Surveyor
Division of Lands and Surveys
- In order to avoid confusion in titles and to conform with past practices, your title will be Cadaster Surveyor with the exception of the Ponape District Surveyor, who is designated directly responsible for the surveying program within his District.

ORIGINATOR	
PERRY	
ROUTING	
HC	
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FW	
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US	
CIS	1
ACI	2
SIGNATURE	
HC	
DHC	
AD	
PA	
B6D	
AG	

178.80.5

March 9, 1970
 Serial: L56547
 File: 178.16.21

ORIGINATOR	
DERRY	
ROUTING	
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PLS	1
ACS	2
SIGNATURE	
HC	
DHC	
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CS	
PA	
RGD	
AG	

Mason Thayer, Cadaster Surveyor, Marshalls
 Jerry Knight, Cadaster Surveyor, Truk
 Robert Hyatt, Cadaster Surveyor, Saipan
 Albert Maite, Cadaster Surveyor, Yap
 Norman McDonald, Cadaster Surveyor, Palau
 Frank Castro, District Surveyor, Pohnpei

Territorial Surveyor

f. Land Cadaster Program

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OF IMPORTANCE

- Your report should be directed to: Territorial Surveyor
 Division of Lands and Surveys
- In order to avoid confusion in titles and to conform with past practices, your title will be Cadaster Surveyor with the exception of the Pohnpei District Surveyor, who is designated directly responsible for the surveying program within his District.

178.80.5

- Concern yourself with the cadastral surveys in this report. It will be closely related to the progress and problems of the land registration team, but leave the details of that report to the head of the team. However, pass to me any related information directly affecting your survey program.
- Submit names of personnel assigned to the Cadaster Program with dates of recruitment, status, etc.
- List accomplishments to date and projected accomplishments i.e. lots surveyed, length of traverses completed, number of monuments set, etc.
- Inventory all equipment being used by the cadaster surveyors. Use the serial numbers, if applicable, U.S. property numbers or other identifying numbers. List the source from where the equipment was obtained and by what method i.e., Jeep, Reg. Number 10112, loaned by Public Parks, 2/15/70.
- List supplies and equipment needed or desired.
- Contribute any other information you may consider of value, including observations, opinions and recommendations.

Each of the Cadaster Surveyors assigned to the Districts will give you the data necessary to prepare your report. The District Land Management Officers will be requested to assist you in getting your reports prepared, and see that they are submitted to this office via First Class Pouch Mail.

Standards for surveying and mapping are being drafted and reviewed. Until released, however, standard land surveying procedures should be followed taking into consideration quality and quantity of available help, terrain, equipment, etc.

Many items of equipment and an excess supplies have been requisitioned to fill specific and anticipated needs of each District. These will be distributed as received. However, keep me advised of your needs each month and acknowledge receipt of these items issued.

As an example the following hypothetical report may be followed:

ORIGINATOR	
ROUTING	
HC	
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Submit names of personnel assigned to the Cadaster Program with dates of recruitment, status, etc.

List accomplishments to date and projected accomplishments i.e. lots surveyed, length of traverses completed, number of monuments set, etc.

Inventory all equipment being used by the cadaster surveyors. Use the serial numbers, if applicable, U.S. property numbers or other identifying numbers. List the source from where the equipment was obtained and by what method i.e., Jeep, Reg. Number 10112, loaned by Public Parks, 2/15/79.

List supplies and equipment needed as desired.

Contribute any other information you may consider of value, including observations, opinions and recommendations.

Each of the Cadaster Surveyors assigned to the districts will file the data necessary to prepare your report. The District Land Agent Officers will be requested to assist you in getting your reports prepared, and see that they are submitted to this office via First Class Pouch Mail.

Standards for surveying and mapping are being drafted and reviewed. If released, however, standard land surveying procedures should be followed taking into consideration quality and quantity of available help, terrain, equipment, etc.

Inventory items of equipment and an excess supplies have been requisitioned. List specific and anticipated needs of each District. These items will be distributed as received. However, keep me advised of your needs each month and acknowledge receipt of these items issued.

As an example the following hypothetical report may be followed:

Page 3.

TO: Territorial Surveyor, Headquarters Lands and Surveys

FROM: Cadaster Surveyor, Saipan

SUBJECT: Progress Report, Land Cadaster Program, Saipan, March 1979.

OFFICE SPACE:

Office space is being jointly used by the land cadaster surveyors and the land registration team. Air conditioning and improvements are needed.

SUPPLIES AND EQUIPMENT:

Jeep, Reg. 10015, issued from Lands and Surveys, received March 10, 1979. Contracts purchased from Joe-Ten, \$5.25, March 10, 1979. 10 rolls adding tape, index cards, 10 sachets, 20 boxes pencils received from Joe-Ten March 20, 1979. PMA Occultor Serial #10255 received by P&S from Heale Park on March 27, 1979.

MAILED

2 desks (1 secretarial and 1 executive)
1 roll tracing paper (good quality)
3 Jeeps
10 boxes GI pencils
5 flash bulbs - 11 exp.
2 Air conditioners 10,000 B.T.U.

PERSONNEL

Assignments

<u>Crew 1</u>	John Doe (W&S)	<u>Crew 2</u>	Joe Smith (W&S)
	Bill White (W&S)		John Ada (W&S)
	Fred Barista (W&S)		Samon Diaz (W&S)
			John Peipis (W&S)
<u>Crew 3</u>	Joe Cruz (W&S)		
	Dave Shannon (W&S)		
	Dave Hobson (W&S)****		

* Recommend John Ada be put on permanent payroll due to his ability and attitude.
** Employed March 20, 1979, from local advertising.
*** Worked 14 hours during month on overtime basis.
**** Put on permanent basis as W-5 from W&S effective March 2, 1979.

ORIGINATOR	
ROUTING	
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Territorial Surveyor, Headquarters Lands and Surveys

Cadaster Surveyor, Saipan

Progress Report, Land Cadaster Program, Saipan, March

ACH:

re space is being jointly used by the land cadaster surveyors and the land registration teams. Air conditioning and improvements are needed.

AND EQUIPMENT:

1. Ing. 10018, issued from IS, Lands and Surveys, received March 10, 1970.
2. Concrete purchased from Joe-Ten, \$5.25, March 10, 1970.
3. Pills including aspirin, water cooler, 10 sachettes, 20 boxes pencils received from IS March 20, 1970.
4. Generator Serial #10985 received by USGS from Menlo Park on March 27, 1970.

asks (1 secretarial and 1 executive)
oil tracing paper (good quality)
boxes of pencils
lunch boxes - 11 ea.
air conditioners 10,000 B.T.U.

L

Assignments

<u>Crew 1</u>	John Doe (USGS)	<u>Crew 2</u>	Joe Smith (USGS)
	Bill White (USGS)		John ADA (USGS)
	Fred Batista (US)		Samon Diaz (US)
			John Peipis (US)
<u>Crew 3</u>	Joe Cruz (US)		
	Dave Brennan (US)		
	Dave Bohlen (H-5)****		

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employed March 20, 1970, from local advertising.
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put on permanent basis as H-5 from WAE effective March 2, 1970.

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WIO	
MS	
PAO	
PER	
PGS	
PI	
SPH	
IS	
SIGNATURE	
HC	
DHC	
AD	
CS	
PA	
RGD	
AG	

Page 4.

SIGNED

1 Party Chief
2 Transit Men
4 Laborers

PROGRESS

USGS Crew 1 report setting 3 new 1st order stations.
Field triangulation work established control points on 7 stations previously set and 4 new stations.
Twenty sets of angles were furnished and 5 distances electronically measured.
Crew 2 traversed 3 miles of rough terrain - 16 permanent monument (filed in) (See attached sheet)
Crew 3 traversed segments on 5 parcels of land (non-cadastral) lot # 221, 225, 227, 228, 230
Total land for distance traversed = 4 miles.
Parcels involved, 19 hectares
14 corners found
3 set (top by observation, one by traverse)
Office staff completed 8 working drawings of parcels # 219, 221, 221, and 225. Field notes and sketches sent to IS, Lands and Surveys for final drafting March 29.
Rainy weather the last two weeks of March slowed progress in the field considerably.

CONTENTS

John Doe

ORIGINATOR	
ROUTING	
HC	
DHC	
AD	
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RGD	
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AGR	
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AUD	
BGF	
COM	
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EGC	
EQ	
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PER	
PGS	
PI	
SPH	
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SIGNATURE	
HC	
DHC	
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CS	
PA	
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AG	

9180 (420)
Micronesia

UNITED STATES
DEPARTMENT OF THE INTERIOR

AGREEMENT OF UNDERSTANDING BETWEEN THE BUREAU OF LAND MANAGEMENT AND
THE TRUST TERRITORY OF THE PACIFIC ISLANDS

considered to be in the best interests of the government of the
States and the Department of the Interior that the Bureau of Land
Management and the Trust Territory of the Pacific Islands, hereinafter
the Trust Territory, in accordance with their respective authori-
ties enter into agreement for cadastral surveys of the Trust Territory
of the lands, both public and private, subject to the availability

The Bureau of Land Management will provide qualified surveyors, within the
limits of funds and personnel available, and standard BLM surveying equip-
ment for a period determined by mutual agreement.

All personnel will be under the general direction of the Chief, Divi-
sion of Lands and Surveys. Priorities, plans and specifications for
all surveys will be provided by the Trust Territory Lands and
Survey Division.

Personnel may be distributed to various districts according to
needs and consistent with operating efficiency. The BLM men assigned
to this project under this agreement will remain under the administrative
control of the BLM. The Trust Territory will provide guidance to
ensure compliance with Territorial and District laws and regulations governing
surveys.

Expenses incurred in the performance of the surveys by these men will be
borne primarily by the Trust Territory, on a reimbursable agreement. It
is agreed that the following expenses shall be paid by the Trust Territory
and reimbursed to the Bureau of Land Management:

Regular salaries of Surveyors.

A maximum of eight hours overtime per man per week is authorized
when it is determined to be necessary or beneficial in the per-
formance of the surveys. Such overtime shall be reimbursed.
Maximum per diem as authorized by the Department of Defense for
the different districts.

Transportation to and from the headquarters of the surveyor for
the men and their survey equipment, and such transportation as
may be necessary within the Trust Territory to execute their assignments.

- Administrative costs will be reimbursed at the rate of 25 percent
of direct costs billed.
- Any additional surveying equipment needed to execute the surveys,
after consultation with the Lands and Surveys Division of the
Trust Territory. Such equipment to become the property of the
Trust Territory.
- The salaries and allowances of additional Micronesian personnel
to complete the survey parties, such as field assistants, vehicle
and boat operators, and laborers when used in the Trust Territory
will be paid directly by the Trust Territory.

HOUSING

Rental housing is scarce in outlying areas. If rental housing is avail-
able to BLM personnel, it shall be arranged for by the Trust Territory.
If necessary to camp on outer islands Trust Territory will furnish camping
equipment.

LIAISON

Liaison at the operations level will be maintained between the Chief,
Division of Lands and Surveys of the Trust Territory and the Chief, Divi-
sion of Cadastral Survey, Washington, D. C., or his authorized repre-
sentative.

TRANSPORTATION

The Trust Territory will provide vehicles, boats, and air transportation
as needed for surveys. The Division of Lands and Surveys will arrange for
the assignment of a suitable 4-wheel-drive vehicle to each field party.
The vehicles are needed on a full-time basis because of the nature of the
field operations and the necessity to operate for extended periods away
from the district center.

The Division of Lands and Surveys will arrange for the assignment of work-
boats and operators on a full-time basis to the BLM field parties. The
nature of the field work requires that these be assigned on a full-time
basis, including nights and weekends, as necessary to insure the efficient
utilization of personnel and equipment.

DURATION OF TOUR

BLM personnel shall generally be detailed to the Trust Territory project
for six months. Tours may be extended if mutually agreeable to all con-
cerned.

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ASSIGNMENT OF TOUR

Personnel shall generally be detailed to the Trust Territory project for six months. Tours may be extended if mutually agreeable to all concerned.

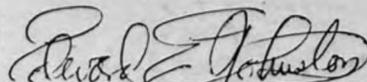
FIELD ASSISTANTS

The Trust Territory will assign the necessary technical or other employees to support the field operations of the BLM. While assigned to the project, such employees will be under the field direction of the BLM field personnel. These employees will be under the administrative jurisdiction of the Trust Territory and salaries and allowances will be paid by the Trust Territory.



Boyd L. Rasmussen, Director
Bureau of Land Management

Date: Feb. 27 1970



Edward E. Johnston, High Commissioner
Trust Territory of the Pacific Islands

Date: 3/26/70

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Date: Feb. 27 1970

Edward E. Johnston

Edward E. Johnston, High Commissioner
Trust Territory of the Pacific Islands

Date: 3/26/70

FEB 70 ACTION.....C/LRS
INFO.....D/RD

ACTION

FOR COMPLETION OF THE FOR CHAPTER PROGRAM
CONCEPTS, DESIGN PLANS WILL BE SENT TO
CAN BE USED FOR MARKING OR NULLIFYING

INWARD 2282

action Perry
13 Feb 70

Sent



~~17816.21~~

17.8.80.5

FEB 70 ACTION.....C/L&S
INFO.....D/RD

ACTION

3 COMPLETE MONUMENTS FOR CASABTER PROGRAM
CONCRETE MONUMENT DESIGN PLANS WILL BE SENT TO
CAN BE USED FOR MAKING MONUMENTS

NNNNM2;N

R0203/22

Z APR 70
FM DISTAD YAP
TO HICOMTERPACIS SAIPAN
GRNC

ANNEX APR 70 ACTION.....D/R&D
INFO.....C/L&S

BT
UNCLAS X PASS TO DIR RES/DEV AND HQLS X RE CONTRACT FOR
CONSTRUCTION OF CONCRETE SURVEY MARKERS X FOUR BIDS HAVE BEEN
RECEIVED AND THE MOST REASONABLE BID IS ONE DOLLAR SEVENTY
FIVE CENTS PER MARKER FOR FIRST 2000 MARKERS AND ONE DOLLAR
SIXTY FIVE CENTS PER MARKER FOR EACH ADDITIONAL 1000 MARKERS
X DETAILED COST BREAKDOWN HAS BEEN SUBMITTED FOR THIS BID AND
WILL BE SENT TO YOU IF REQUESTED X PLS ADVISE IF THIS BID IS
ACCEPTABLE X YSLC
BT

NNNNV

M 2 05 14

34

INWARD 2282

action Perry
3 Feb 70

Sent



~~178.16.21~~

178.80.5

INWARD 2375



178.16.21



**FILE
END**