

資料編

添付資料 1

**Minutes of Discussions
on the Preliminary Study
on the Project for Improvement of Water Supply System
at Majuro Atoll
in the Republic of the Marshall Islands**

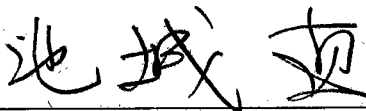
In response to a request from the Government of the Republic of Marshall Islands (hereinafter referred to as "RMI"), the Government of Japan decided to conduct a Preliminary Study on the Project for Improvement of Water Supply System at Majuro Atoll (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to RMI the Preliminary Study Team (hereinafter referred to as "the Team"), which is headed by Tadashi IKESHIRO, Resident Representative, JICA Fiji Office, and is scheduled to stay in the country from January 23 to February 14, 2005.

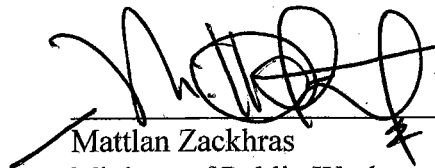
The Team held discussions with the officials concerned of the Government of RMI and conducted a field survey at the study area.

As a result of discussions and field survey, both parties confirmed the main items described in the attached sheets. Subject to the decision by the Government of Japan, JICA will conduct a Basic Design Study on the Project.

Majuro, February 6, 2006



Tadashi IKESHIRO
Leader
Preliminary Study Team
Japan International Cooperation Agency



Mattlan Zackhras
Minister of Public Works
Republic of Marshall Islands

ATTACHMENT

1. Objective of the Project

The objective of the Project is to supply safe quality and enough quantity of water for residents in the project site through the construction of water supply facilities and procurement of related equipment.

2. Project site

The Project site is Majuro Atoll, shown in Annex-1.

3. Responsible and Implementing Agency

3-1. The responsible organization is the Ministry of Public Works.

3-2. The implementing agency is the Majuro Water and Sewer Company (MWSC). The organization chart of the MWSC is shown in Annex-2.

4. Items requested by the Government of RMI

After discussions with the Team, the items described in Annex-3 were finally requested by RMI side. JICA will assess the appropriateness of the request and will report the findings to the Government of Japan.

5. Japan's Grant Aid Scheme

5-1. RMI side understands the Japan's Grant Aid Scheme explained by the Team, as described in Annex-4.

5-2. RMI side will take the necessary measures, as described in Annex-5, for smooth implementation of the Project, as a condition for the Japanese Grant Aid to be implemented.

6. Schedule of the Study

The Team will continue to study in Japan until early April 2006. If the Project is deemed feasible as the Japan's Grant Aid based on the results of the Preliminary Study, JICA will send the Basic Design Study Team to RMI subject to the instruction by the Ministry of Foreign Affairs of Japan.

7. Other relevant issues

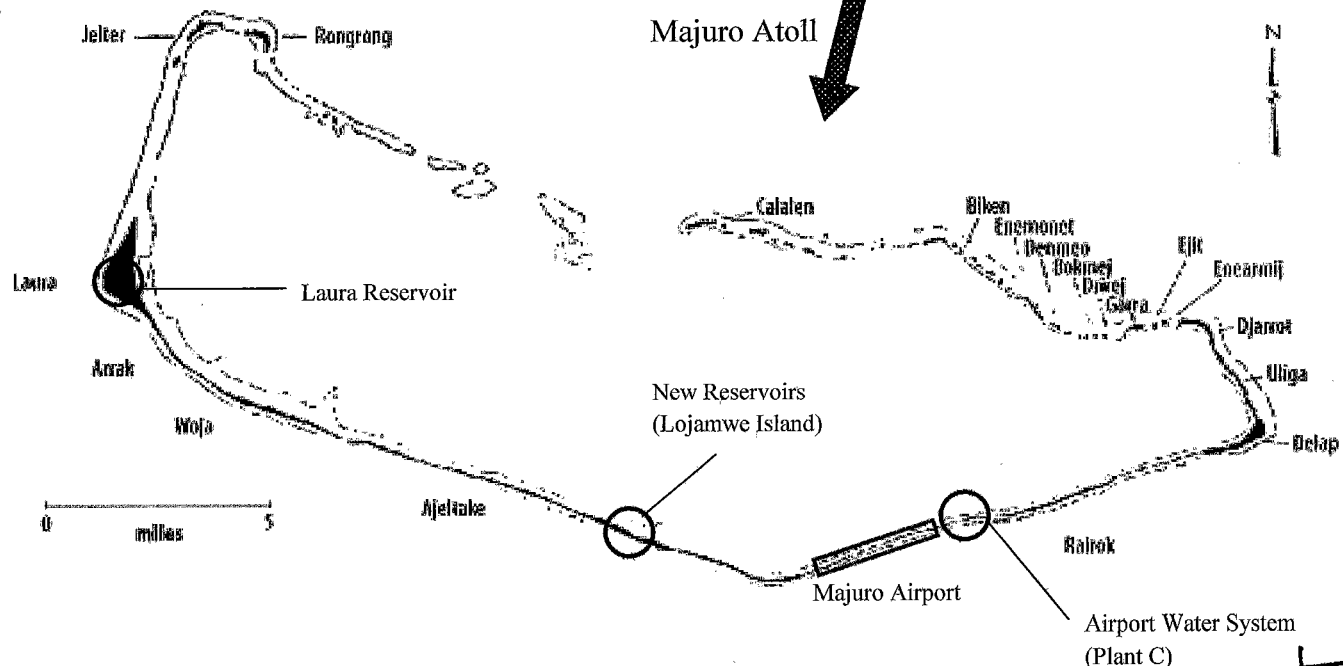
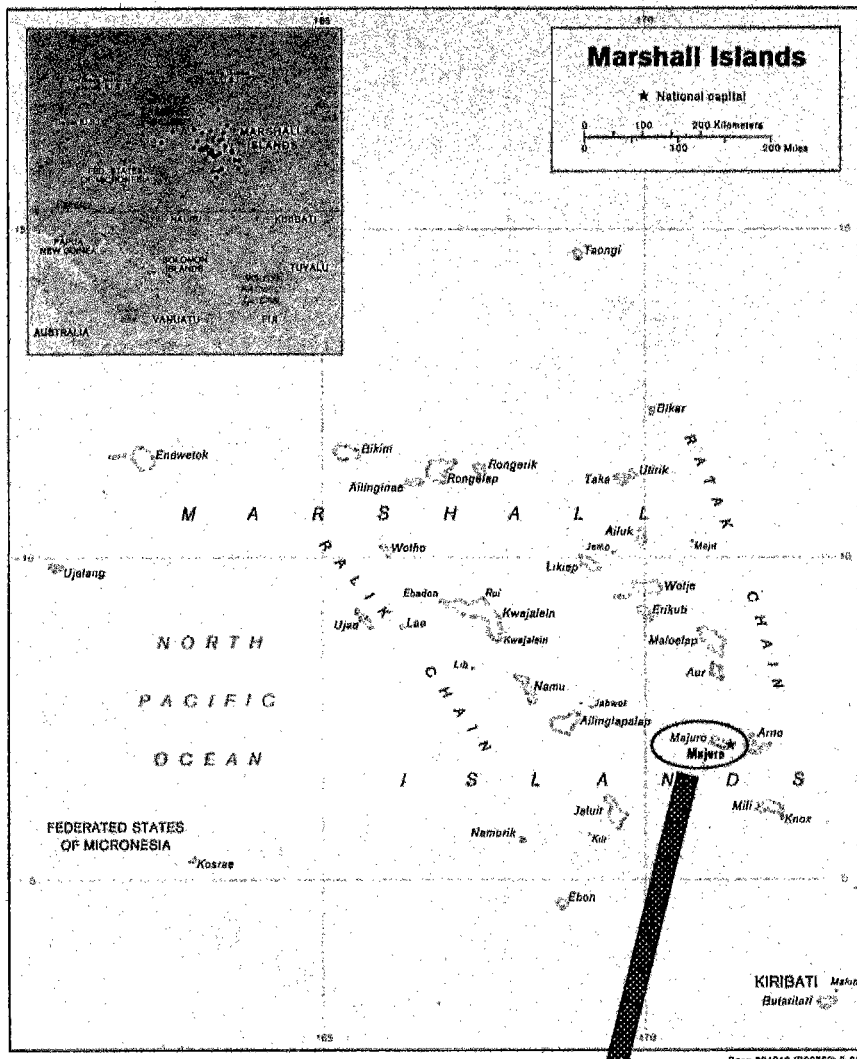
7-1. RMI side committed that they prepare all the answers of the questionnaire and hand it in to the Team by 11 February, 2006.

7-2. Both sides agreed that the content of the original request should be reviewed and reconstituted from some viewpoints such as cost-effectiveness and sustainability. The criteria of selecting items are as follows;

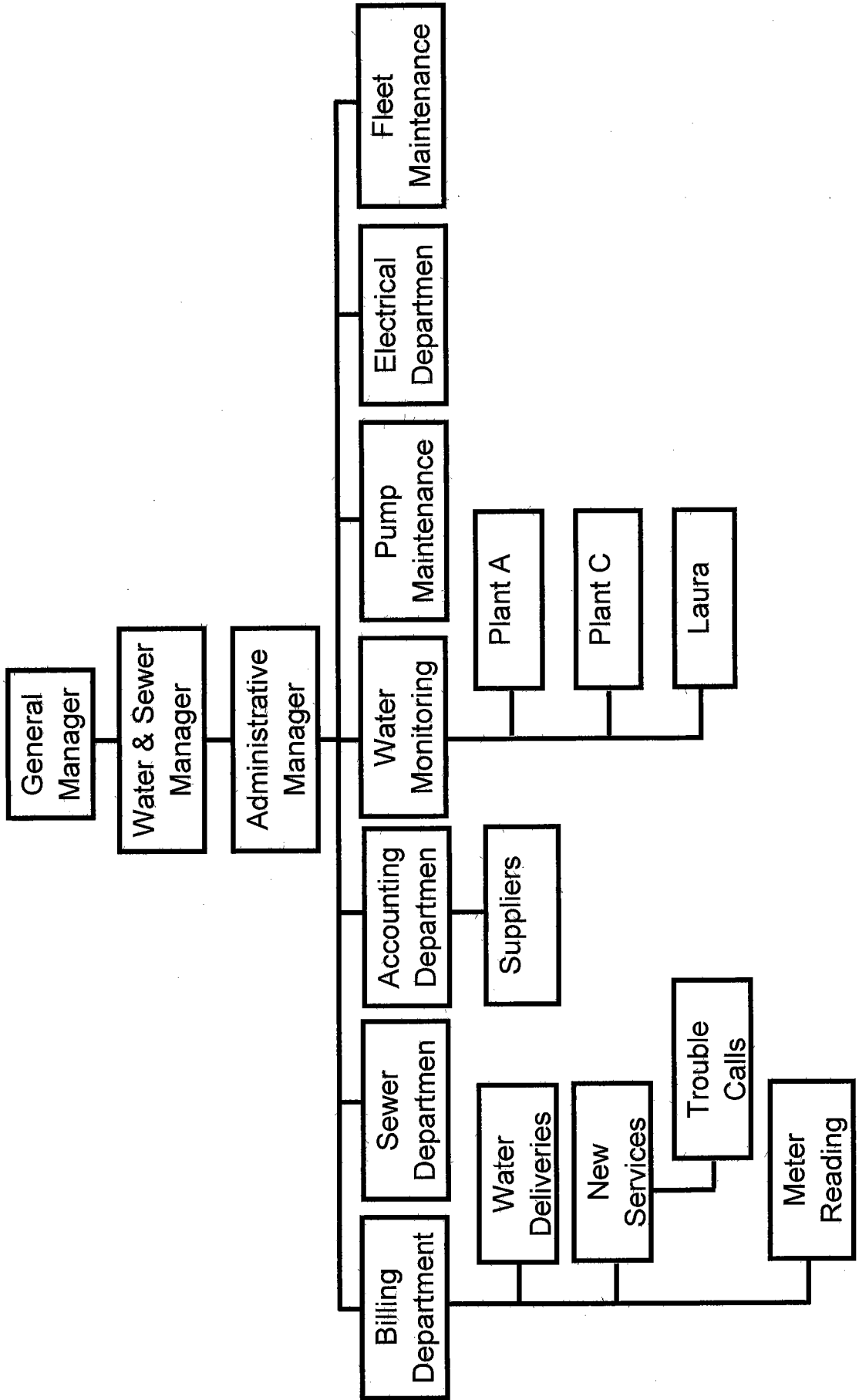
a. Maximization of water supply hours

- b. Environmental conservation of Laura Lens
 - c. Easiness of operation/maintenance
 - d. Recurrent cost
- 7-3. Both sides agreed that the quality of water supplied by the Project shall be kept at or higher than the quality currently supplied.
- 7-4. RMI side agrees to allocate enough budget and qualified staff for appropriate operation and maintenance of the facilities to be supplied by the Project. Especially, the recurrent cost to operate the facility shall be ensured every year.
- 7-5. RMI side understands that Environment Impact Assessment (EIA) of the Project shall be implemented by themselves referring to Annex-6. The Assessment shall be approved by the Environmental Protection Authority (EPA) and submitted to Japan side by the end of the April, 2006. Its approval by the Japan side is a condition for JICA to conduct a Basic Design Study on the Project.

Location of the Project Site



Organization Chart of the MWSC



Handwritten initials/signature

Requested Items from RMI Side

1. Construction of 30 million gallons reservoir at Lojemwa Island
(The capacity of the tanks (30 million gallons) can be modified depend on the budgetary limitation.)
2. Conversion of the present No.3 holding tank into a treated water tank
3. Upgrade of present filtration, treatment and pumping system at water supply plant in the airport
(The validity will be examined at the Basic Design Study.)
4. Construction of a pumping station to pump surplus airport rain water back to the new reservoirs
5. Expansion the capacity of Laura reservoir from 30,000 gallons to 100,000 gallons

* The items are described in the order of priority.

Japan's Grant Aid

The Grant Aid Scheme provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

(1) Grant Aid Procedures

1) Japan's Grant Aid Scheme is executed through the following procedures:

- Application (Request made by a recipient country)
- Study (Basic Design Study conducted by JICA)
- Appraisal & Approval (Appraisal by the Government of Japan and Approval by the Cabinet of Japan)
- Determination of Implementation (The Notes exchanged between the Governments of Japan and the recipient country)
- Implementation (Implementation of the Project)

2) Firstly, the application or a request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Japan's Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Scheme, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

(2) Basic Design Study

1) Contents of the Study

The aim of the Basic Design Study conducted by JICA on a requested project (hereinafter referred

to as “the Project”) is to provide a basic document necessary for the appraisal of the Project by the Japanese Government. The contents of the Basic Design Study are as follows:

- i) Confirmation of the background, objectives, and benefits of the requested Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project’s implementation,
- ii) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economical point of view,
- iii) Confirmation of items agreed on by both parties concerning the basic concept of the Project,
- iv) Preparation of a basic design of the Project,
- v) Estimation of costs of the Project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid Project. The Basic Design of the Project is confirmed considering the guidelines of Japan’s Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

2) Selection of Consultants

For smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference set by JICA.

The consulting firm(s) used for the Basic Design Study is (are) recommended by JICA to the recipient country to also work in the Project’s implementation after the Exchange of Notes, in order to maintain technical consistency.

(3) Japan's Grant Aid Scheme

1) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

- 2) “The period of the Grant Aid” means the one Japanese fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding

contracts with (a) consultant firm(s) and (a) contractor(s) and final payment to them must be completed. However in case of delays in delivery, installation or construction due to unforeseen factors such as natural disaster, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

- 3) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However the prime contractors, namely, consulting, constructing, and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

- 4) Necessity of the "Verification"

The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

- 5) Undertakings required of the Government of the Recipient Country

In the implementation of the Grant Aid project, the recipient country is required to undertake such necessary measures as the followings:

- i) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the Project.
- ii) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- iii) To secure buildings prior to the procurement in case the installation of the equipment.
- iv) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- v) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.
- vi) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

6) "Proper Use"

The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

7) Re-export"

The products purchased under the Grant Aid should not be re-exported from the recipient country.

8) Banking Arrangement (B/A)

- i) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
- ii) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay (A/P) issued by the Government of the recipient country or its designated authority.

Major Undertakings to be taken by Each Government

No.	Items	To be covered by Grant Aid	To be covered by Recipient Side
1	To secure land		●
2	To clear, level and reclaim the site when needed		●
3	To construct gates and fences in and around the site when needed		●
4	To construct the reservoir, pumping station and other facilities	●	
5	To bear the following commissions to the Japanese bank for banking services based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
6	To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country		
	1) Marine (Air) and land transportation of the products from Japan to the recipient country	●	
	2) Tax exemption and custom clearance of the products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	(●)	(●)
7	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.		●
8	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts		●
9	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid		●
10	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for the transportation and installation of the equipment		●

(B/A: Banking Arrangement, A/P: Authorization to pay)

Instructions to prepare the EIA by RMI Side

1. Describe the abstract of the construction plan, including rough sketches of completion drawings, collecting method of construction materials, construction procedures, and process flow.
2. Describe the current situation, including natural and social conditions.
3. Describe the environmental key impacts on natural and social situations.
4. Describe the environmental mitigation plans on natural and social impacts in each stage, including construction material collection phase, construction phase, and operation phase.
5. Describe the evaluation of the prediction results of each impact.
6. Attach the following document:
 - 1) Land lease agreement,
 - 2) Biodiversity around the site,
 - 3) Stakeholders list,
 - 4) Records of public hearing and attendants list, and
 - 5) Actions taken by the proponent to solve any problems.



添付資料 2

主要面談者リスト（敬称略）

Ministry of Public Works (MPW) 公共事業省

Mattlan Zackhras	Minister
Smith Ysawa	Secretary
Frederik J. DeBrum	Assistant Secretary
Herculano Lagunay	Architect, Facilities Engineering Division

Majuro Water and Sewer Company (MWSC) マジュロ上下水道公社

William F. Roberts	General Manager
Terry Mellan	Manager

Marshalls Energy Company (MEC) マーシャルエネルギー公社

Steve Wakefield	Manager – Special Project
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Ministry of Foreign Affairs 外務省

Gerald Zackious	Minister
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Environmental Protection Authority (EPA) 環境局

John Bungitak	General Manager
Caleb McClennen	Expert

Economic Policy, Planning and Statistics Office, Office of the President

Carl S. Hacker	Director
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Ministry of Education 教育省

Wilfred Kendall	Minister
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Majuro Local Government マジュロ市役所

Riley Albertter	Mayor
Jisam Kaisha	Executive Director, Park & Rec.
Titus Langrine	Executive Director, HESA

Pacific International, Inc.

Jerry Kramer	CEO
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日本大使館

池田 章

長島 浩平

黒崎 岳大

臨時代理大使

参事官

専門調査員

JOCV マーシャル調整員事務所

小熊 誠

ボランティア調整員

添付資料 3

資料収集リスト 平成18年3月作成

番号	資料の名称	形態	版型	ページ数	オリジナル・コピーの別	部数	収集先又は発行機関	寄贈・購入(価格)の別	取扱区分	利用表示	利用者所属氏名	納入予定日	納入確認欄
1	Laura 井戸所有者契約書 (7井戸分)	資料	A4	62	コピー	7	Public Works						
2	MARINE WATER QUALITY REGULATIONS (1992)	CD	A4	28	コピー	1	EPA						
3	PUBLIC WATER SUPPLY REGULATIONS (1994)	CD	A4	46	コピー	1	EPA						
4	SOLID WASTE REGULATIONS (1989)	CD	A4	17	コピー	1	EPA						
5	TOILET FACILITIES AND SEWAGE DISPOSAL REGULATIONS (1990)	CD	A4	15	コピー	1	EPA						
6	Marshall Islands Marine Resources (1997)	CD	A4	13	コピー	1	MIMURA						
7	Marine Mammal Protection Act (1990)	CD	A4	13	コピー	1	MIMURA						
8	Endangered Species Act (1975)	CD	A4	3	コピー	1	EPA						
9	National Environmental Protection Act (1984)	CD	A4	18	コピー	1	EPA						

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10	EARTHMOVING REGULATIONS (1989)	CD	A4	14	コピー	1	EPA						
11	ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS (1994)	CD	A4	21	コピー	1	EPA						
12	ENVIRONMENTAL IMPACT ASSESSMENT FOR THE ESTABLISHMENT OF AN ASPHALTIC CONCRETE PRODUCTION PLANT AT LOJEMWA ISLAND REPUBLIC OF MARSHALL ISLANDS FOR RUNWAY UPGRADE WORKS - MAJURO INTERNATIONAL AIRPORT (2005)	CD	A4	135	コピー	1	EPA						
13	Environmental Impact Assessment Ocean Reef Flat Quarry, Reclamation and Revetment at Lojemwa Island, Majuro (2006)	CD	A4	38	コピー		EPA						
14	MAJURO WATER SUPPLY AND SANITATION PROJECT, AS-BUILT DRAWINGS	資料	A3	149	コピー	1	PII						
15	Organization Chart (Ministry of Public Works)	資料	A3	2	コピー	1	EPW						

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16	Organization Chart (Majuro Water and Sewer Company)	資料	A3	2	コピー	1	MWSC						
17	Proposed Water Reservoir Drawings	資料	A4, A3	1, 3	コピー	1	PII						
18	Proposed Water Reservoir Drawing (Laura Treatment Plant)	資料	A4	1	コピー	1	PII						
19	Employee List	資料	A4	2	コピー	1	MWSC						
20	Water Borne Diseases	電子データ	A4	1	コピー	1	Ministry of Health						
21	Public Water Quality Monitoring Program	電子データ	A4	3	コピー	1	EPA						
22	Water Quality Monitoring Lab, List of Equipment 2006	電子データ	A4	1	コピー	1	EPA						
23	Water Quality Monitoring Program	資料	A4	1	コピー	1	MWSC						
24	Plant 'C' Piping Layout	資料	A4	1	コピー	1	MWSC						

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25	REPUBLIC OF THE MARSHALL ISLANDS STATISTICAL YEARBOOK 2004	電子データ	A4	385	コピー	1	MEC						
26	Water Production 2003	電子データ	A4		コピー	1	MWSC						
27	Water Quality Analysis Data 2005	電子データ	A4		コピー	1	EPA						
28	National Investment Policy Statement 2004/2005	資料	A4	10	コピー	1	RMI						
29	Directory of Development Organizations Vol. VI Oceania, RMI 2006	資料	A4	5	コピー	1	DEVDIR						
30	Water Resources Assessment Laura, Majuro, Marshall Islands	資料	A4	20	コピー	1	SOPAC						
31	Water Supply for Majuro, RMI A Technical Appraisal for Feasible options	資料	A4	45	コピー	1	SOPAC						
32	Report and Recommendation of the President to the Board of Directors on a Proposed Loan to the RMI for the Majuro Water Supply and Sanitation Project 1995	資料	A4	70	コピー	1	ADB						
33	Water and Sanitation Sector Strategy and Action Plan 1996	資料	A4		コピー	1	SOPAC						

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34	Guidebook	資料	A4	20	コピー	1	Marshall Islands Visitors Authority						
35	RMI Updated Report on the Barbados Program of Action (BPOA)	資料	A4	35	コピー	1	RMI						
36	Initial communication under the UN Framework Convention on Climate Change	資料	A4	72	コピー	1	EPA						

添付資料 4

Majuro Water Supply Improvement Project
Project Cost Breakdown

(概算工事費内訳)

※要請内容を全て実施した場合

	Major Works		Unit	Q'ty	U/P US\$	Amount US\$
	Items	Spec.				
Direct Work	1. Berm Embankment					
	Material Cost:					
	Quarry Operation		cy	211,588.00	6.00	1,269,528.00
	Foundation Fill		cy	146,570.00	20.00	2,931,400.00
	Berm Filling		cy	65,018.00	24.00	1,560,432.00
	Equipment Cost:					
	2-Units Payloader		day	266.00	595.00	158,270.00
	2-Units Road Grader		day	266.00	455.00	121,030.00
	2-Units Road Roller		day	160.00	455.00	72,800.00
	6-Units Dumptruck		day	420.00	350.00	147,000.00
	Labor Cost:					
	4-Laborer		day	532.00	48.00	25,536.00
	Subletting Work					
	Revetment Wall	981m	cy	35,139.00	53.25	1,871,151.75
	2. STRUCTURE EXCAVATION (14,365 cy)					
	Equipment Cost:					
	1-Unit Excavator, 225		day	64.00	665.00	42,560.00
	4-Units Dump truck		day	256.00	560.00	143,360.00
	Labor Cost:					
	4-Laborer		day	256.00	48.00	12,288.00
	3. 50mm thk SAND BEDDING (3,147 CY)					
	Material Cost:					
	50mm thk Sand bedding		cy	3,147.00	36.40	114,550.80
	Equipment Cost:					
	1 -Unit Compactor		day	32.00	560.00	17,920.00
	1 -Unit Plate compactor		day	58.00	175.00	10,150.00
	1 -Water pump (using salt wati		day	32.00	70.00	2,240.00
	Labor Cost:					
	2-Laborer		day	88.00	48.00	4,224.00
	4. CONCRETE WORKS (1,639.094 lm)					
	Material Cost:					
	Concrete, 3000 psi		cy	1,422.00	194.50	276,579.00
	Lean concrete, 2500 psi		cy	134.00	186.70	25,017.80
#3 x 20 Epoxy coated rebar		ea	210.00	8.95	1,879.50	
#4 x 20 Epoxy coated rebar		ea	7,024.00	13.95	97,984.80	
#5 x 20 Epoxy coated rebar		ea	8,854.00	18.95	167,783.30	
1" dia x 10 hole former/weep holes		ea	60.00	14.00	840.00	
Epoxy coated tie wire		coil	840.00	6.45	5,418.00	
5/8" thk x 4' x 8' Compressible board		ea	70.00	22.00	1,540.00	
Sikaflex sealant		tube	155.00	6.62	1,026.10	
5/8" thk x 4' x 8' Formply		ea	915.00	39.00	35,685.00	

2" x 4" x 20' Regular timber		ea	1,600.00	14.15	22,640.00	
Form oil		gal	42.00	25.00	1,050.00	
3" Form nails		box	20.00	109.50	2,190.00	
Equipment Cost:						
1-Unit Crane		day	70.00	1,400.00	98,000.00	
1-Unit I-looper		day	70.00	25.00	1,750.00	
4-Units concrete vthrator		day	210.00	105.00	22,050.00	
2-Units bar cutter		day	150.00	55.00	8,250.00	
Labor Cost:						
4-Mason		day	280.00	64.00	17,920.00	
6-Caroenter		day	418.00	64.00	26,752.00	
4-Steelman		day	840.00	64.00	53,760.00	
12-Laborer		day	3,120.00	48.00	149,760.00	
5. HYPALON I000D LINER (10 x 10)						
Material Cost:						
Hypalon IO x IO x I000d liner		sm	41,070.00	17.20	706,404.00	
Adhesive		gal	302.00		0.00	
Geotextile fabric		sf	43,725.00	2.00	87,450.00	
Labor Cost:						
4- Installer		day	734.00	64.00	46,976.00	
8-Laborer		day	1,468.00	48.00	70,464.00	
6. CHAINLINK FENCE						
Mat'ls and Labor	subout	m	1,522.00	92.00	140,024.00	
Sub total directs for 6 tanks			Sub total directs for 6 tanks		10,573,634.05	
7. LAURA ACCUMULATOR RESEVOIR						
Equipment		LS	1.00		48,331.00	
Labor		LS	1.00		20,684.00	
Material		LS	1.00		78,155.00	
8. CONVERT TANK #3 TO TREATED WATER						
Equipment					13,650.00	
Labor		LS	1.00		23,060.00	
Hypalon IO x IO x I000d liner		sm	6,665.00	17.20	114,638.00	
Geotextile fabric		sf	7,096.00	2.00	14,192.00	
Material		LS	1.00		12,860.00	
9 Site Facility						
Fab. Yard and Motor Pool		LS	1.00		620,000.00	
10 Equipment Supply						
For Water Supply Upgrade		LS	1.00		500,000.00	
11. Mobilization, Demobilization						
Mobilization, Demobilization		LS	1.00		300,000.00	
Direct Total					12,319,204.05	
Indirect Cost	Temporary Facilities		LS		200,000.00	
	Utilities (water, Sewer, power, tel)		LS		60,000.00	
	Survey		LS		200,000.00	
	Site Supervision	Japanese	M.M	20.00	15,000.00	300,000.00
		T.C.	M.M	60.00	5,000.00	300,000.00

	Local	M.M	120.00	2,500.00	300,000.00
Site Office, Camp	Rent	LS			120,000.00
General Management Cost	Oh & p, Exp.				1,650,000.00
Total Indirect					3,130,000.00
Total Construction					15,449,204.05
Construction Supervision	Design	LS			500,000.00
	C.S.	M.M	18.00	20,000.00	360,000.00
Total C.S.					860,000.00
Total Project					16,309,204.05

添付資料 5

浄水場 C のシステム改善に係る機材コスト例

協議議事録において確認された「浄水場 C における既存濾過装置・ポンプシステムの改善」を実施する場合、それぞれの機材単価（例）は次のとおり。

1. ろ過装置

自動重力式砂ろ過装置：約¥12,000,000*（106,600*US ドル）

処理能力：500GPM

直径：18 フィート

高さ：14 フィート

製造者：US Filter（米国）

（*この単価は、輸送費、現地組み立て費用を含んでいない。輸送費用は、概算で約 290,000 円（2,600US ドル）と推定される。）

2. 配水ポンプ（浄水場 C からリタ地区への配水用）

配水ポンプ（3 台）：¥23,500,000

送水量：500GPM（1.9m³/分）

モーター出力：37kW

回転数制御：インバーター起動盤

製造者：クボタ（日本）

3. 送水ポンプ（空港集水施設から新設貯水池への送水用）

配水ポンプ（2 台）：¥12,500,000

送水量：500GPM（1.9m³/分）

モーター出力：37kW

製造者：クボタ（日本）

添付資料6

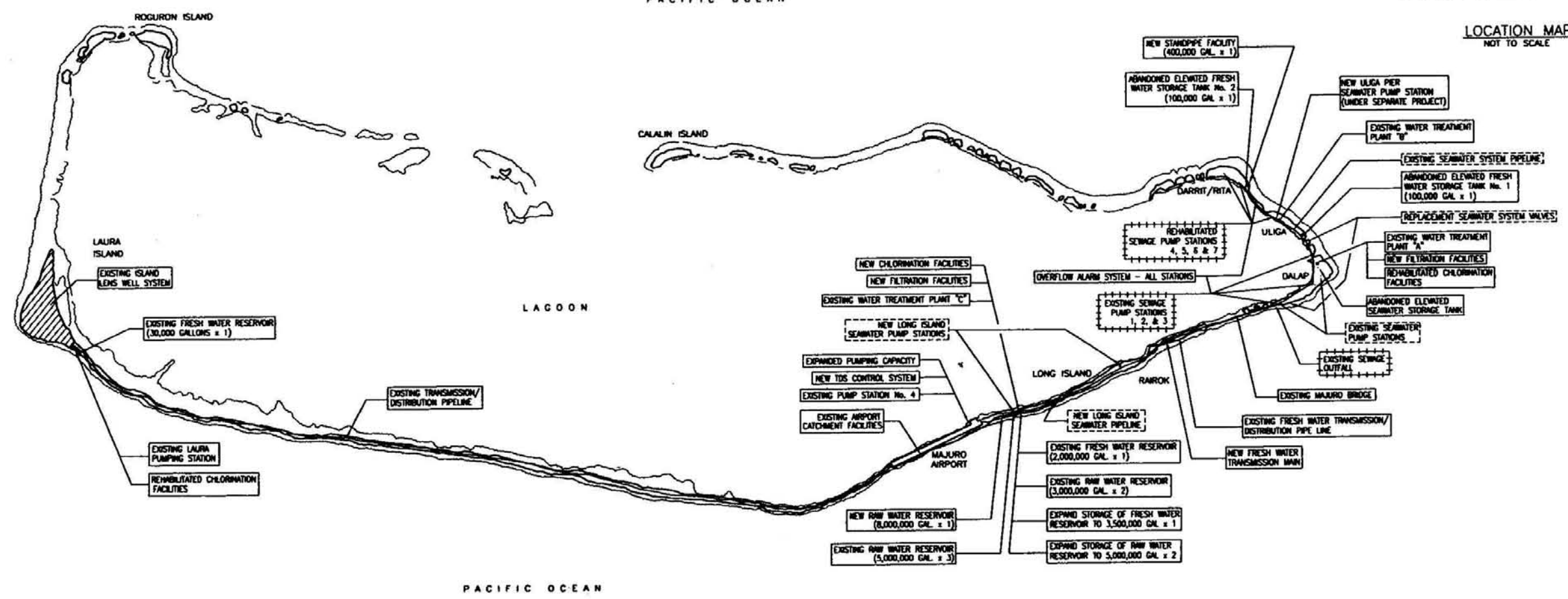
Project Execution Schedule
 Improvement of Water Supply System at Majuro Atoll (第7章 表7.7-2のケース2に該当)

Item	Description	Qty	Unit	Year 1												Year 2												Total		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Qty	Qty	
1.0	Commencement of Work and Mobilization																													
2.1	Site Preparation																													
2.2	Dike Embankment	200,000	cy																											
2.3	Structure Excavation	16,000	cy																											
2.4	Sand Bedding	3,500	cy																											
2.5	Concrete Works	1,500	cy																											
2.6	Geotextile Liner	43,000	m ³																											
2.7	Perimeter Fence and Yarc	1,600	m																											
2.8	Laura Reservoir	1	ls																											
2.9	Transmission and Distribution Facilities	15	ls																											
2.10	Miscellaneous Works	-	ls																											
3.0	Work Close out and Demobilization																													

添付資料 7

マジュロにおける上下水道施設一覧

(図 6.1.3-1 の拡大図)



VICINITY MAP NOT TO SCALE

KEY

[Solid Line]	EXISTING FACILITIES
[Dashed Line]	NEW OR REHABILITATED FACILITIES
[Dotted Line]	EXISTING FRESH WATER SYSTEM
[Dash-dot Line]	SEAWATER SYSTEM
[Cross-hatched]	SEWAGE SYSTEM

C:\Cadd\proj\maju\shuf\j3top2.dwg	PII - MCCONNELL DOWELL - AS BUILT DWG ISSUE	REV 1
	PII - MCCONNELL DOWELL	REV 0

ENGINEERING-SCIENCE, INC.
NIPPON JOGESUIDO SEKKEI CO., LTD.
MINK & YUEN, INC.
DATE: SEPTEMBER 1995

MINISTRY OF PUBLIC WORKS
APPROVAL RECOMMENDED: [Signature]
APPROVED BY: [Signature]

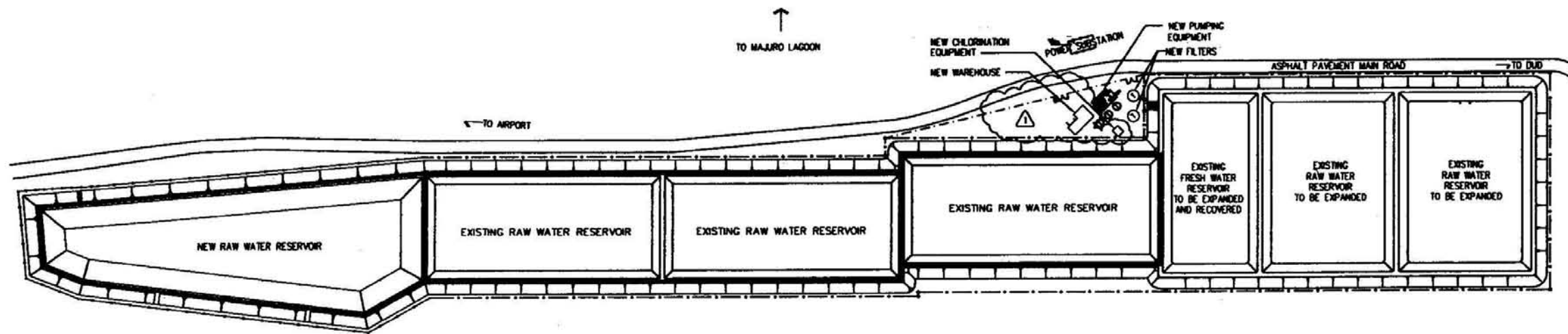
MAJURO WATER SUPPLY AND SANITATION PROJECT

PROJECT LOCATION, VICINITY & INDEX TO PROJECT FACILITIES

DATE: G.3

浄水場 C の貯水池 (原水・処理水) 平面図

(図 3.3.1-2 の拡大図)



	P11 - McCONNELL DOWELL - AS BUILT DWG ISSUE	REV 2
	PARSONS REVISION - BUILDING LAYOUT REVISED - 16/5/97	REV 1
	P11 - McCONNELL DOWELL	REV 0

ENGINEERING-SCIENCE, INC.
NIPPON JOGESUIDO SEKKEI CO., LTD.
MINK & YUEN, INC.

DATE: SEPTEMBER 1995

MINISTRY OF PUBLIC WORKS
APPROVED BY: _____
DATE: _____

MAJURO WATER SUPPLY AND SANITATION PROJECT

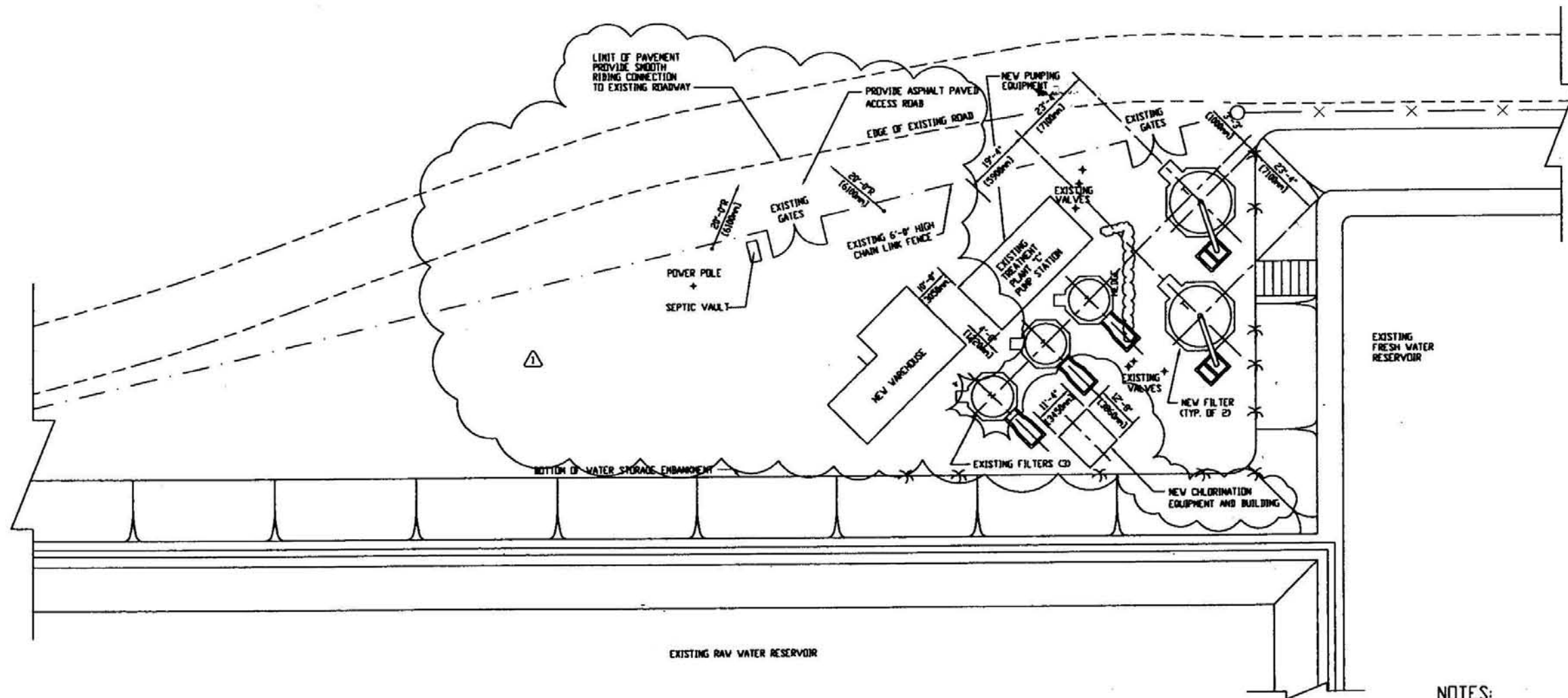
WATER TREATMENT PLANT "C" & STORAGE FACILITIES
GENERAL LAYOUT

C.1

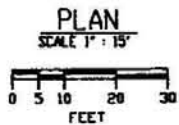


浄水場 C の処理プラント平面図

(図 3.3.1-1 の拡大図)



NOTES:
1. METRIC DIMENSIONS ARE GIVEN IN BRACKETS AND ARE NOMINAL. ONLY THE AMERICAN SYSTEM OF UNITS SHALL GOVERN.



P11 - MCCONNELL DOWELL - AS BUILT DWG ISSUE	REV 2
PARSONS REVISION - BUILDINGS RELOCATED - 16/5/97	REV 1
P11 - MCCONNELL DOWELL	REV 0

ENGINEERING-SCIENCE, INC.
NIPPON JOGESUIDO SEKKEI CO., LTD.
MINK & YUEN, INC.

DATE: SEPTEMBER 1995

APPROVAL RECOMMENDED BY: _____
APPROVED BY: _____
MINISTRY OF PUBLIC WORKS

MAJURO WATER SUPPLY AND SANITATION PROJECT

WATER TREATMENT PLANT "C"
LAYOUT AND SITE DEVELOPMENT PLAN

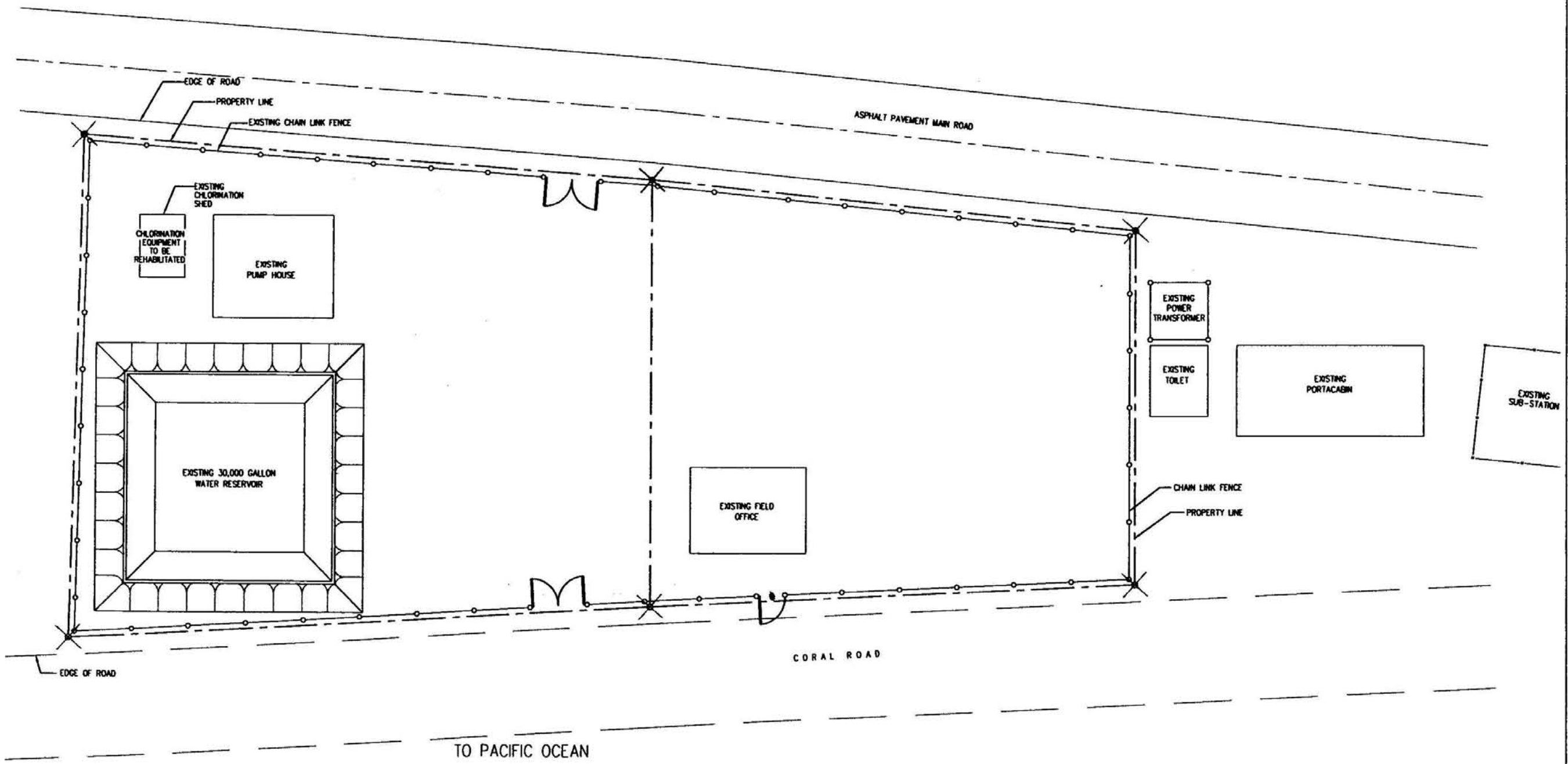
DWG NO.
C.2

AUTOCAD PLOTTER OUTPUT FILE: 00000000.DWG



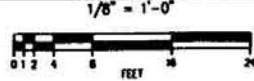
↑
TO MAJURO LAGOON

ローラ貯水池平面図



↓
TO PACIFIC OCEAN

SITE DEVELOPMENT PLAN



ENGINEERING-SCIENCE, INC.
 NIPPON JOGESUIDO SEKKEI CO., LTD.
 MINK & YUEN, INC.

DATE: SEPTEMBER 1995

APPROVAL RECOMMENDED: _____
 MINISTER OF PUBLIC WORKS
 APPROVED BY: _____
 MINISTER OF PUBLIC WORKS

MAJURO WATER SUPPLY AND SANITATION PROJECT

LAURA PUMPING STATION
 GENERAL LAYOUT

DATE: _____
 C.4

PROJECT/MAJURO/014

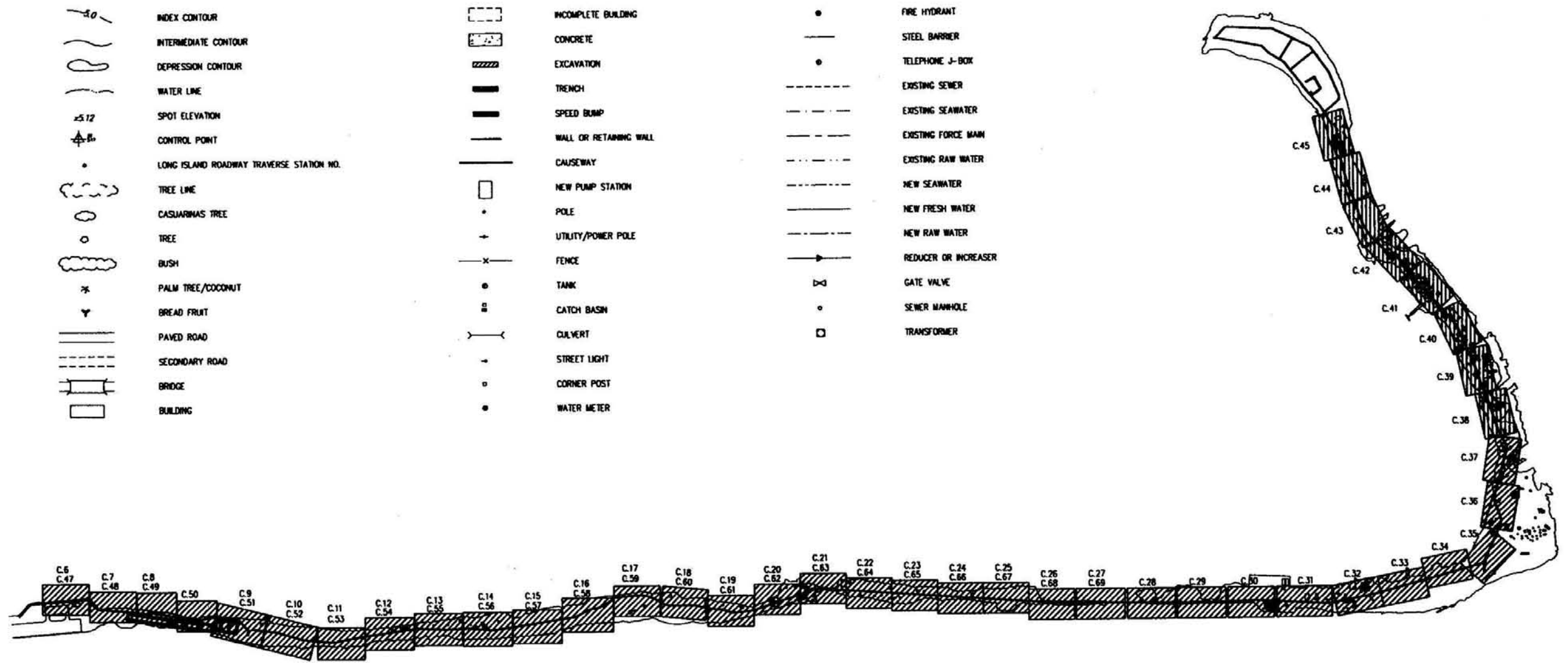


配水管路平面図

(図 3.3.2-2 に概念図あり)

LEGEND

	INDEX CONTOUR		INCOMPLETE BUILDING		FIRE HYDRANT
	INTERMEDIATE CONTOUR		CONCRETE		STEEL BARRIER
	DEPRESSION CONTOUR		EXCAVATION		TELEPHONE J-BOX
	WATER LINE		TRENCH		EXISTING SEWER
	SPOT ELEVATION		SPEED BUMP		EXISTING SEAWATER
	CONTROL POINT		WALL OR RETAINING WALL		EXISTING FORCE MAIN
	LONG ISLAND ROADWAY TRAVERSE STATION NO.		CAUSEWAY		EXISTING RAW WATER
	TREE LINE		NEW PUMP STATION		NEW SEAWATER
	CASUARINAS TREE		POLE		NEW FRESH WATER
	TREE		UTILITY/POWER POLE		NEW RAW WATER
	BUSH		FENCE		REDUCER OR INCREASER
	PALM TREE/COCONUT		TANK		GATE VALVE
	BREAD FRUIT		CATCH BASIN		SEWER MANHOLE
	PAVED ROAD		CULVERT		TRANSFORMER
	SECONDARY ROAD		STREET LIGHT		
	BRIDGE		CORNER POST		
	BUILDING		WATER METER		



PLAN
NTS

ENGINEERING-SCIENCE, INC.
NIPPON JOGESUIDO SEKKEI CO., LTD.
MINK & YUEN, INC.

DATE: SEPTEMBER 1995

APPROVAL RECOMMENDED BY: MINISTRY OF PUBLIC WORKS
 APPROVED BY: MINISTRY OF PUBLIC WORKS

MAJURO WATER SUPPLY AND SANITATION PROJECT

INDEX OF PIPELINE DRAWINGS

DWG. NO.
C.5

添付資料 8

EPPSO所有図書リスト

Book No.	Title	Author	Date
383	Population and Development Policy	Cabinet	11/01/95
669	Partnership Agreement signed in Cotonou: ACP -EU	ACP	06/23/00
775	Integrated Economic and Environmental Planning	ADB	2002
402	U.S. Trade and Development Program Qualification Projects	Airdex	01/01/88
435	Marshall Islands Docks Project	Alfred A. Yee	01/01/79
575	Constitution of the Marshall Islands	Amata Kabua	12/21/78
638	American Samoa Statistical Yearbook 2002	American Samoa	2002/6/14
540	A Personal Tour of Palau	Ann H.Katolong	1961
695	Republic of the Marshall Islands Public Sector Evaluation	Aries Group, LTD	12/28/88
01-015	Meto 2000	Asian Development Bank	04/01/01
016-092	Priorities of the People	Asian Development Bank	03/01/03
093-111	Millennium Development Goals in the Pacific	Asian Development Bank	03/01/03
332-338	Meto 2000 Economic report	Asian Development Bank	12/00-3/01
375	Majuro Water Supply and Sanitation Project	Asian Development Bank	06/06/95
385-386	Technical Assistance 1983-MAR	Asian Development Bank	08/01/93
474-482	Financial Opening Under the WTO Agreement Selected Asian Countries	Asian Development Bank	09/01/02
483-484	Poverty: Is it an issue in the Pacific	Asian Development Bank	03/01/01
485	Measuring Willingness to Pay for Electricity	Asian Development Bank	07/01/02
527	Majuro Water Supply Project and Sanitation - Laura System Improvement	Asian Development Bank	07/01/97
541	Education for Global Participation	Asian Development Bank	20/03/92
628	Country Economic Review Indonesia	Asian Development Bank	07/01/02
629	Asia Environment Outlook	Asian Development Bank	2001
630	Integrated Economic and Environmental Planning	Asian Development Bank	May-01
633-635	Tonga Country Strategy and Program Update (2003-2005)	Asian Development Bank	2002/7/26
644	A Pacific Strategy for the New Millennium	Asian Development Bank	Sep-02
646	Improving Growth Prospects in the Pacific	Asian Development Bank	03/01/98
647	Marshall Islands 1996 Economic Report	Asian Development Bank	06/01/97
648	Pursuing Economic Reform in the Pacific	Asian Development Bank	10/01/99
649	A Different Kind of Voyage	Asian Development Bank	01/01/98
650	Reforms in the Pacific	Asian Development Bank	1999
653	Tonga Natural Resource Use and Sustainable Socioeconomic Development	Asian Development Bank	1990-2000
660	Economic Performance and challenges Ahead	Asian Development Bank	04/01/02
661	Kiribati Economic Report in 1997	Asian Development Bank	03/01/99
662	Kiribati Monetization in an Atoll Society	Asian Development Bank	12/01/00
663	Tonga Economic Performance and Selected Development Issues	Asian Development Bank	06/01/96
665	Cook Islands 2001 Economic Report Policies For Progress	Asian Development Bank	04/01/01
666	Tuvalu 2002 Economic and Public Sector Review	Asian Development Bank	2002
672	Country Assistance Plan 2000-2002	Asian Development Bank	12/01/99
673	Population and Development Policy	Asian Development Bank	11/01/95
674	Report of a Mission to Republic of the Marshall Islands	Asian Development Bank	08/01/02
675	Outer Islands Electrification Feasibility Study for the R.M.I	Asian Development Bank	04/01/96
678	A Framework for Establishing Priorities in a country Poverty Reduction Strategy	Asian Development Bank	06/01/02
679	The Role of Infrastructure in land use Duannmics and Rice Production in Viet Nam Mekong River Delta	Asian Development Bank	07/01/02
680	Toward a Political Economy Approach to Policy-based lending	Asian Development Bank	05/01/02
682	The European Social Model: Lessons for Developing Countries	Asian Development Bank	05/01/02
683	The Doha Agenda and Development : A View from the Uruguay Round	Asian Development Bank	09/01/02

684	Effect of Decentralization Strategy on Macroeconomic Stability in Thailand	Asian Development Bank	08/01/02
685	Conceptual Issues in the Role of Decentralization in Promoting Effective Schooling in Asian Development Countries	Asian Development Bank	09/01/02
686	Modernization and Son Preference in People's Republic of China	Asian Development Bank	09/01/02
687	Promoting Effective Schooling through Education Decentralization in Bangladesh, Indonesia and Philippines	Asian Development Bank	09/01/02
688	Why are some countries Richer Than Other	Asian Development Bank	08/01/02
694	Report and Recommendation of the President to the Board of Directors	Asian Development Bank	11/01/01
713	Infrastructure Transport Development Project	Asian Development Bank	Dec-95
714	R.M.I Outer Island Transport Infrastructure	Asian Development Bank	Apr-02
719	An Analysis and Case Study of the Role of Environmental Economics at the ADB	Asian Development Bank	Sep-02
728	Trends Analyses Projections	Asian Development Bank	2000
730	Institutional Strengthening of the Transport Sector	Asian Development Bank	Dec-98
747	The Contribution of Fisheries to the Economic of Pacific Islands Countries	Asian Development Bank	12/01/01
749	Pacific Regional Action Plan on Sustainable Water Management	Asian Development Bank	08/03/02
753	R.M.I Fisheries Development Project	Asian Development Bank	12/01/90
754	R.M.I Basic Education Development Project	Asian Development Bank	08/01/93
755	Women in Development in the R.M.I	Asian Development Bank	09/01/91
684	Australian Statistics Advisory Council Annual Report 20010-2002	Australian Bureau of Statistics	2001-2002
645	Australian Bureau of Statistics Annual Report 200-02	Australian Bureau of Statistics	08/23/02
641	Taiata Mo Le Alinae O Samoa	Avanoo mo Tagata Uma	2002-2004
440	R.M.I Economic Report 1995-1996	Bank of Hawaii	01/31/96
534-535	Pacific Region Environmental Strategy	Bank of Hawaii	06/01/03
542	Report Submitted to the President by the World Bank Consultants	BCSI	04/04/94
123-142	International Financial Statistics	By Carol S. Carson	02/01/02
388	Marshall Island Aviation System Plan	Calvin Kim	04/18/88
734	Marshall Islands National workshop on Assessment of Hardship and Poverty	Carl Hacker EPPSO Head	2002/12/9
427	Majuro Water Supply Project	Carl S. Leonard	04/01/95
579	Kiribati Statistics Office Ministry of Finance (COPRA) 1970-1982	Charles A. MacFadden	05/28/84
689	Survey of Arthropod Pests and Invasive Weeds in the R.M.I	College of the R.M.I	06/01/02
690	Sectoral Planning Manual Samoa	Government of Samoa	03/01/00
739	Biological, Economic and Social Impact of Climate Change on Pacific Coral Reefs	D.K. Stout H. Cesar	Oct-02
446	U.S Army Corps to Engineers Pacific Ocean Division	Dames & Moore	01/01/79
652	Public Policy Theories Models, and Concepts and Anthology	Daniel C. McCool	1981/8/19
656	Administering Grants Contracts, and Fund	David G. Bauer	1995
376	Legal Business and Economic Aspects	David L. Callie & William S. Richard	05/01/89
357	Financial Statements & Independent Auditors' Report (92-93)	Deloitte & Touche	12/24/93
358	Financial Statements & Independent Auditors' Report (1994)	Deloitte & Touche	09/30/94
359	Independent Auditors' Report & Compliance with law and Regulations (94)	Deloitte & Touche	09/30/95
360	Independent Auditors' Report & Compliance with law and Regulations (95)	Deloitte & Touche	09/30/95
361	General-Purpose Financial Statements & Independent Auditors' Report (95)	Deloitte & Touche	09/30/95
362	General-Purpose Financial Statements & Independent Auditors' Report (96)	Deloitte & Touche	09/30/96
363	General-Purpose Financial Statements & Independent Auditors' Report (97)	Deloitte & Touche	09/30/97
364	General-Purpose Financial Statements & Additional Information (93)	Deloitte & Touche	09/30/93
365	Independent Auditor's Report on Internal Control Structure (90)	Deloitte & Touche	09/30/90
366	Independent Auditor's Report on Internal Control Structure (91)	Deloitte & Touche	09/30/91
367	Independent Auditor's Report on Internal Control Structure (94)	Deloitte & Touche	09/30/94
368	Independent Auditor's Report on Internal Control Structure (95)	Deloitte & Touche	09/30/95
369	Independent Auditor's Report on Internal Control Structure (97)	Deloitte & Touche	09/30/97
378-379	Republic of the Marshall Islands Single Audit Reports	Deloitte & Touche	09/30/91
391-392	General Purpose Financial Statements & Independent Auditor's Report	Deloitte & Touche	09/30/98
393-394	General Purpose Financial Statements & Independent Auditor's Report	Deloitte & Touche	09/30/99

394	Independent Auditors' Report on Internal Control And On Compliance	Deloitte & Touche	09/30/99
395	Independent Auditors' Report on Internal Control And On Compliance	Deloitte & Touche	09/30/01
699	Establishment of a Private Sector Unit TA	Deloitte & Touche	04/01/00
722	Kwajalein Atoll Joint Utilities Resources(Kajur):	Deloitte & Touche	Nov-00
726	Transport Infrastructure Development Project	Deloitte & Touche	Dec-94
697	Ballistic Missile Defense Program	Department of Defense	11/15/01
428	Union Nations Statistics Division	DESASD	01/01/01
145-146	Statistics Statistique 2003	DESASD	03/01/03
403	Population and Housing Censuses	DESASD	1998
564	International Accounting and Reporting Issue	DESASD	01/01/93
572	A Systems Approach to National Accounts Compilation	DESASD	1999
489	Energy Statistics Annuaire Des Statistiques de l' energie	DESASD	1999
736	Statistics	DESASD	2001/5/14
718	2001 International Trade Statistics Yearbook Annuaire Statistiques Du Commerce International	DESASD	2003
757	Historic Demography of Majuro Atoll	Dirk H.R.Spennemann	05/01/90
768	Population Control measures in Traditional Marshallese Culture	Dirk H.R.Spennemann	01/01/90
389	Reproductive health and Family Planning	Donald Capelle & Florence Peters	06/13/95
551	A Statistical Profile on Men and women	Dr.Heather Booth	1989
494	Strengthening of Agricultural Support Service	Dr.Ray Shaw	03/01/94
144	Statistical Commission Report on the thirty -fourth session	Economic and Social Council	07/07/03
670	Japan official Development Assistance	Economic Cooperation Bureau	06/01/03
774	Financial Procedures of the European Development Fund	EDF	2002
447	A Hydrodynamic Ecosystem Model of the Enewatak Lagoon	Edward Ratigan	1987
567	R.M.I-Review of Environment Law	Elizabeth Harding	1992
396-401	Pacific Operations Center	EPOC	01/01/88
495	1997 Population Profile of the United States	ESA	09/01/98
626	The Pacific and the European Union	European Commission	08/01/02
748	Food and Agricultural Sector Profiles	FAO	1997
526	Hazard Mitigationa Report for Tropical Storms in the R.M.I	FEMA	12/06/91
537	Local Government Development Plans 1991/92-1995-96	Florian Heikena	05/01/95
437	Engineering,Procurement,Construction and Maintenance Services	Flour Damiel	06/01/91
499	Guide to Training for Development Planners & Statisticians	Forum Secretariat	1990
727	PACP National Workshop on the New Trading options with R.M.I	Forum Secretariat	6/27-28/2002
750	Commitments of Pacific island Countries to Gender Equality	Forum Secretariat	12/01/98
453-460	Quarterly Review of Tourism	H.M.S Samaranyake	10/01/92
571	Ebeye and Carlson Islands, Marshall Islands District	Hawii Architects& Engineers, Inc	11/30/93
562	Mariana Islands District	HeadQuarters	04/20/71
539	The Archaeology of World War II in the Marshall Islands Vol II:	Henrik Christansen	1988
616	Management of Local Planning	ICMA	1914
497	2002 Annual Report	ICSID	08/30/01
414	Annuaire Des Statistiques Du Travail 2000	ILO	2000
487	Regional Conference on Migration Employment & Development in the S.Pacific	ILO	1/22-26/1982
491	Labor Market Information In Asia	ILO	12/09/78
553-554	Migration, Employment and Development in the Southe Pacific	ILO	1983
767	Basic Business management Skills for Self - Employment Women in Majuro Marshall Islands	ILO Suva	8/8-19/1988
492	Adjustment and Growth in Development Countries	IMF	1992-1994
493	International Macroeconomics	IMF	1987
502	Direction of Trade Statistics Yearbook	IMF	2001
519	International Monetary Fund	IMF	09/10/92
565	Law Rules and Regulations International Monetary Fun	IMF	07/05/91

709	The Challenge of Statistical Capacity Building in the Pacific	IMF	Nov-02
710	Government Finance Statistics Manual 2001	IMF	2001
711	Balance of Payment Manual	IMF	2000
712	Monetary and Financial Statistics Manual	IMF	2000
732	External Debt Statistics	IMF	2003
742	Managing Financial Crises Recent Experience and lessons for Latin American	IMF	2003
708	Guide to the General Data Dissemination System (GDDS)	IMF	Nov-01
643	The IMF and the Poor	IMF	1998
496	Strategy for Protection of the Marine Environment	IMO	07/01/88
613	Century Census data entry	IMP	12/17/93
721	R.M.I Improving Accountability and External Reporting by Strengthening Financial Management	Information Development Consultat	2002/10/30
731	Improving Accountability and External Reporting by Strengthening Financial Management	Information Development Consultat	2002/10/30
724	National Report on Population Norway	International Conference	1994
147	Balance of Payments Statistics Yearbook	International Monetary fun	09/16/01
696	Republic of the Marshall Islands FundWare	INTUIT	10/28/02
769	Internal Migration in the Marshall Islands	J.Massaar	01/01/91
681	Industrial Location Principles Practice & Policy	J.W. Harrington and Barney Warf	1996/4/8
441	Final Economic Fiscal Year 1989-Fiscal 1991 R.M.I	Jame H. Pedersin Planning Consultat	05/01/89
672	Economic Development Plan Fiscal Year 1989 to 91 in the R.M.I	Jame H. Pedersin Planning Consultat	05/01/89
744	Nitjela of the Marshall Islands 15th Constitutional Session	James McCaffer	Aug-94
470	The Project for Reactivation of Damaged old Dock at Majuro	JICA	07/01/88
733	The Improvement of Water Supply System of Majuro Atoll	JICA	Nov-86
522	Statistical Methods	JICA	9/96/
523	Population and Social Statistics (Lecture Note)	JICA	09/01/95
524	Demographic Analysis (Lecture Note)	JICA	1996
531	Statistical Operations	JICA	09/01/96
532	Sampling Theory and Applications	JICA	09/01/96
533	Economic Statistics (Lecture Notes)	JICA	09/01/96
615	Sovereignty & Survival Islands Microstates in the third world	John Connell	01/01/94
574	Kwajalein Atoll Local Government Disaster Plan	KALGOV	01/01/88
588	A Proposal for Land Utilization in the R.M.I	Kimja Corporation Tokyo, Japan	08/01/86
640	Abdul-Baha Answered Qusetions	Laura Clifford Bamey	1987
760	Marshall Island United Nations Mission	Laurence N.Edwards	01/07/95
439	Trust Territory Code Volume 1	Law Publishers	1980
729	Ebeye, Majuro and the National Government Summary	LBII	Aug-97
382	United States Trade and Development Program	LMR Fisheries Research, Inc.	04/01/91
752	Asian Development Assistance Project for the Institutional Strengthening of the Office of the Planning and Statistic of the R.M.I	M.G.Senanayake	03/02/92
424	Survey of Agriculture Islands	M.N. Sproat	3/13-22/1985
664	Rural Poverty in Developing Country	Maheed Hasan Kaha	Mar-01
578	Kiribati National Development Plan 1983-1986	Maneaba	03/27/83
657	Fraud and Corruption in World Bank Projects	Mario A.Aguilar	05/01/00
618	Guidelines for Adapting the LSMS Living Standards Questionnaires to Local Conditions	Marth A. & Jacques V	1995
720	Assessment Study Micronesia Submarine Cable Project	Matthew Link	Oct-02
576	Medicia Status of Marshall of Accidentally Exposed	Medical Department	12/01/84
381	Youth to Youth In Health (95-96)	MHE	1995-1996
622	Past Achievements and Future Possibilities	Micronesia Seminar	5/22-25/1984
693	Winning Grants Step by Step	Mim Carlson	05/07/02
372-373	Marshall Islands National Disaster Plan	MINDP	06/09/05
560	The Health and Vital Statistic Quarterly	Ministry of Health	06/01/89
436	Marshall Islands Visitors Authority Triennial Report	MIVA	1997-1998

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