

Remote Islands Maritime Services

Presented at Meeting of

Pacific Islands Development Program

Majuro, Republic of the Marshall Islands



Est. 1979

TransTech Marine Co.

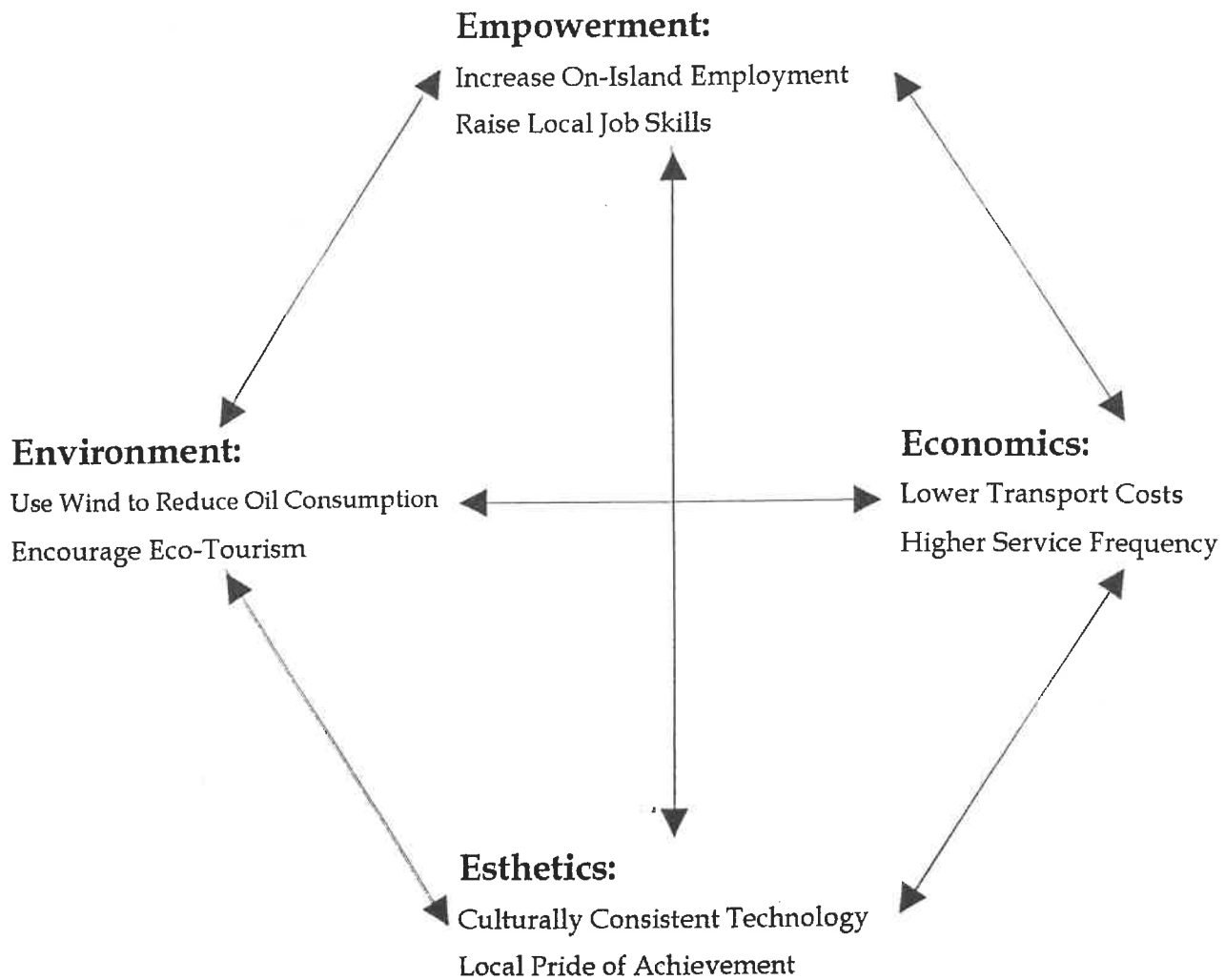
Research, design, finance for owners, builders, investors

New York: Telephone (718) 857-5722 Fax (718) 857-6601

September 1996

OBJECTIVES OF RIMS

RIMS Is About...



PACIFIC ISLANDS

(Representative Only & Excluding Fisheries)

Many Countries

Cook Islands

Fiji

FSM

Palau

PNG

RMI

Samoa

Solomon Islands

Tonga

Vanuatu

Many Cargoes

Coffee, Papayas

Ginger, Squash, Sugar

Bananas, Citrus

Cassava, Phosphate

Coffee, Palm Oil

Copra, Trochus Shells

Breadfruit, Taro

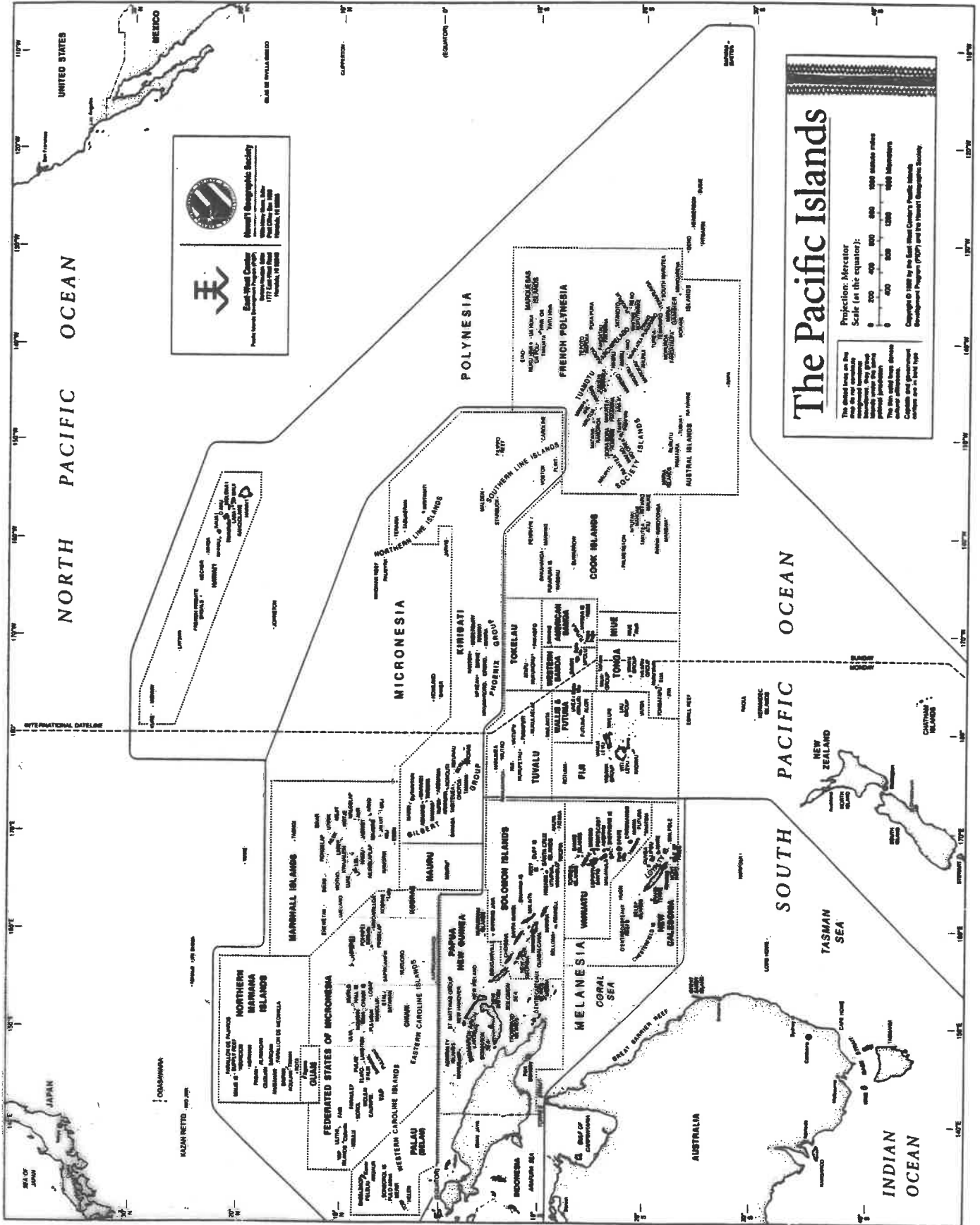
Cocoa, Timber

Vanilla, Vegetables

Copra, Kava, Pepper

"It is not possible to prescribe any one set of solutions to 'regional (Pacific) problems'."

P. W. Philipson
East-West Center 1990



East-West Center
 Pacific Islands Research Center
 1600 University Avenue, Suite 100
 Honolulu, HI 96822

Marshall Islands Geographic Society
 1600 University Avenue, Suite 100
 Honolulu, HI 96822

The Pacific Islands

The island names on this map do not include the names of the islands that are not shown. The names of the islands that are shown are based on the most current information available. The names of the islands that are not shown are based on the most current information available.

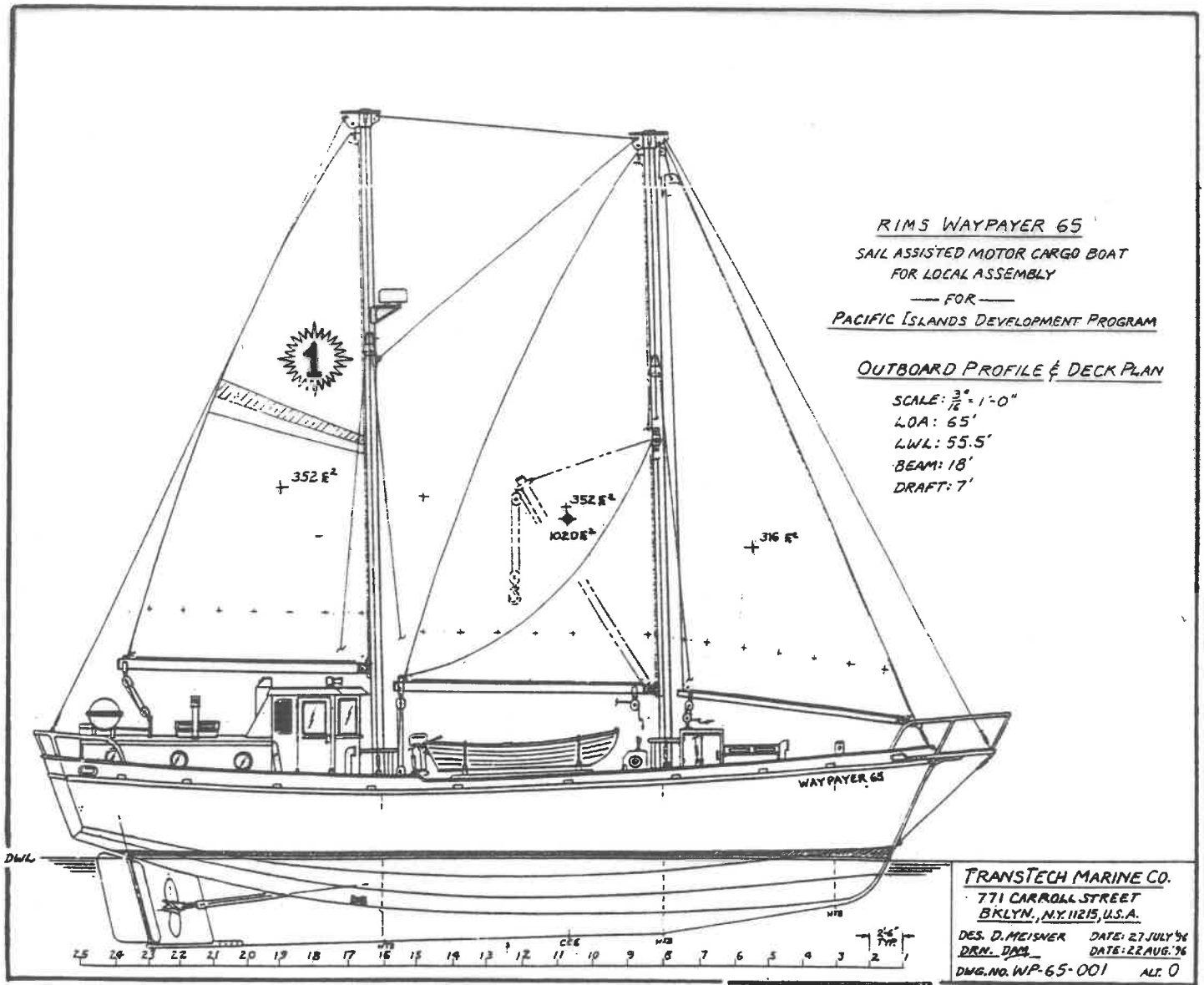
Projection: Mercator
 Scale (at the equator):
 0 200 400 600 800 1000 statute miles
 0 200 400 600 800 1000 kilometers

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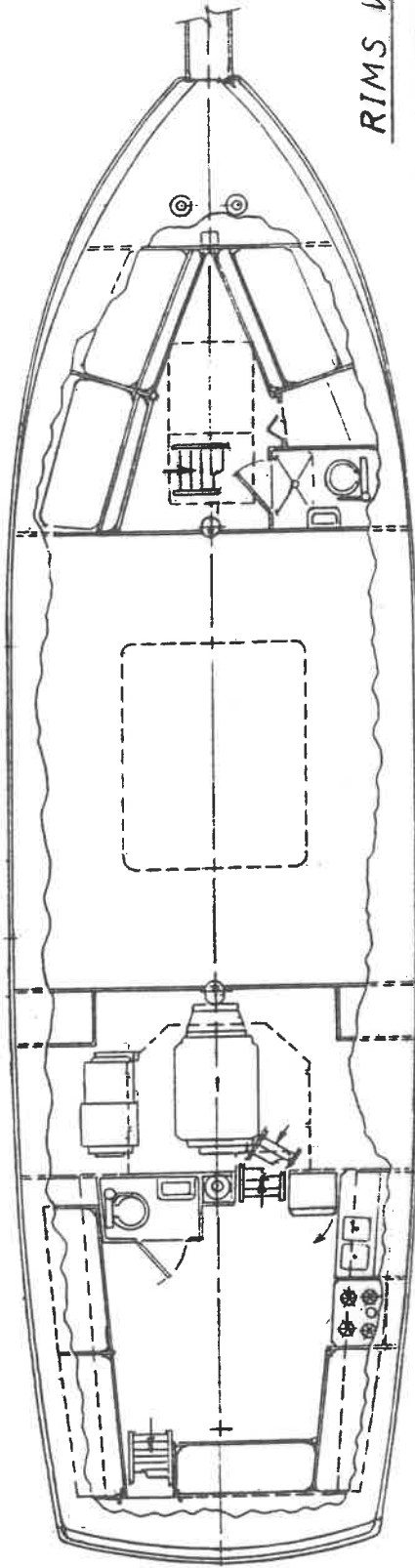
REPUBLIC OF THE MARSHALL ISLANDS

Population:	58,000
Atolls:	29 (90 Square Miles)
Total Area:	750,000 Square Miles
Internal Trade & Transport (est.)	10,000 - 15,000 Tons
Economy:	Fisheries, Hospitality, Aquaculture, Crafts, Light Manufacturing, Niche Agriculture

To achieve the plan for increased economic growth and diversification and better balance of population amongst all atolls, frequent, reliable and economical maritime transport of freight and passengers to the remotest islands must be available.



RIMS would provide the final, economical link between larger ocean carriers and the smallest, most isolated RMI communities. Transport of freight and passengers can be achieved at lower cost and higher service frequency than the Micro Class vessels. And local assembly of vessel kits offers important additional benefits as well.



RIMS WAYPAYER 65

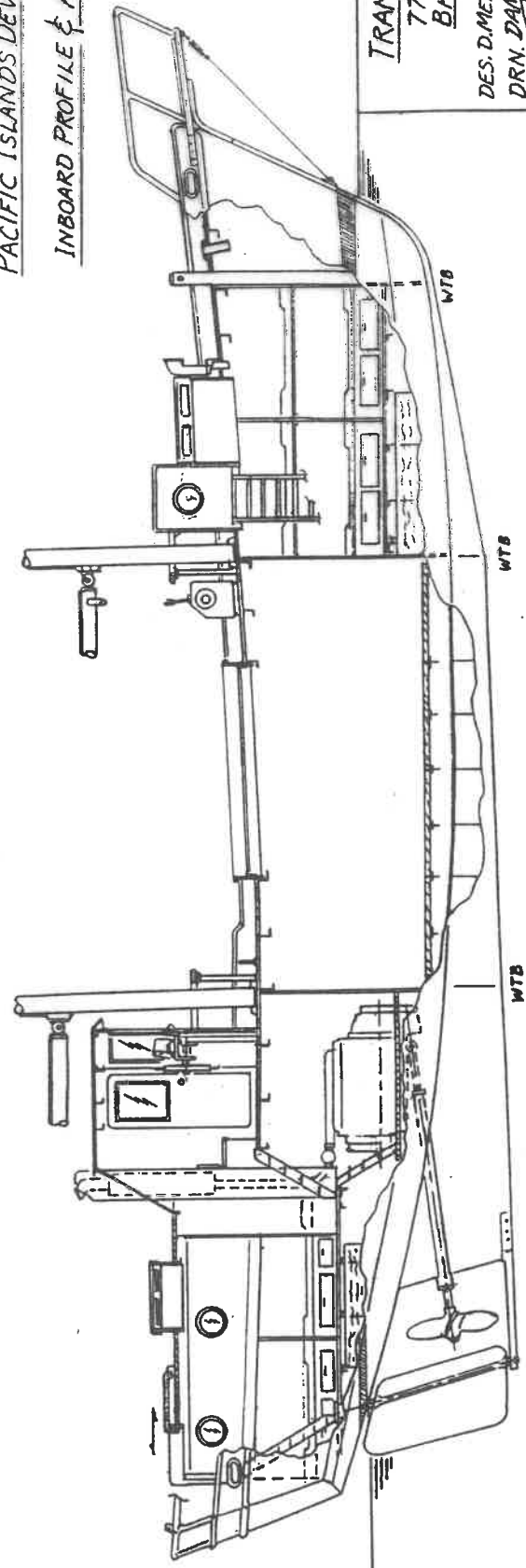
SAIL ASSISTED MOTOR CARGO BOAT
FOR LOCAL ASSEMBLY

— FOR —

PACIFIC ISLANDS DEVELOPMENT PROGRAM

INBOARD PROFILE & ARR'GT. PLAN

SCALE: 3/16" = 1'-0"



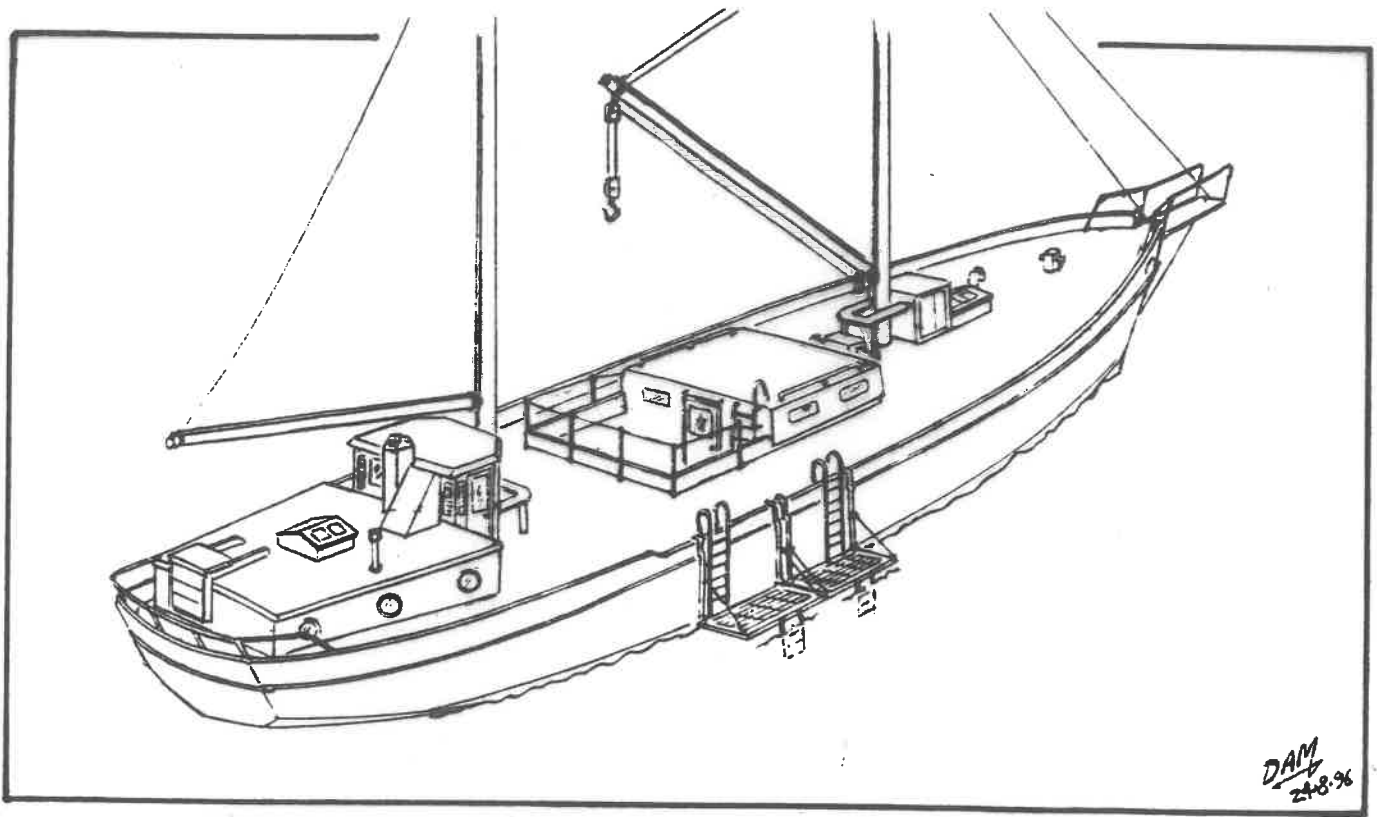
TRANSTECH MARINE CO.

771 CARROLL STREET
BKLYN, N.Y. 11215, U.S.A.

DES. D. MEISNER DATE: 28/7/96

DRN. DAM DATE: 23/8/96

DWG. NO. WP-65-002 ALT. 0.



WAYPAYER 65 As SCUBA Dive Boat

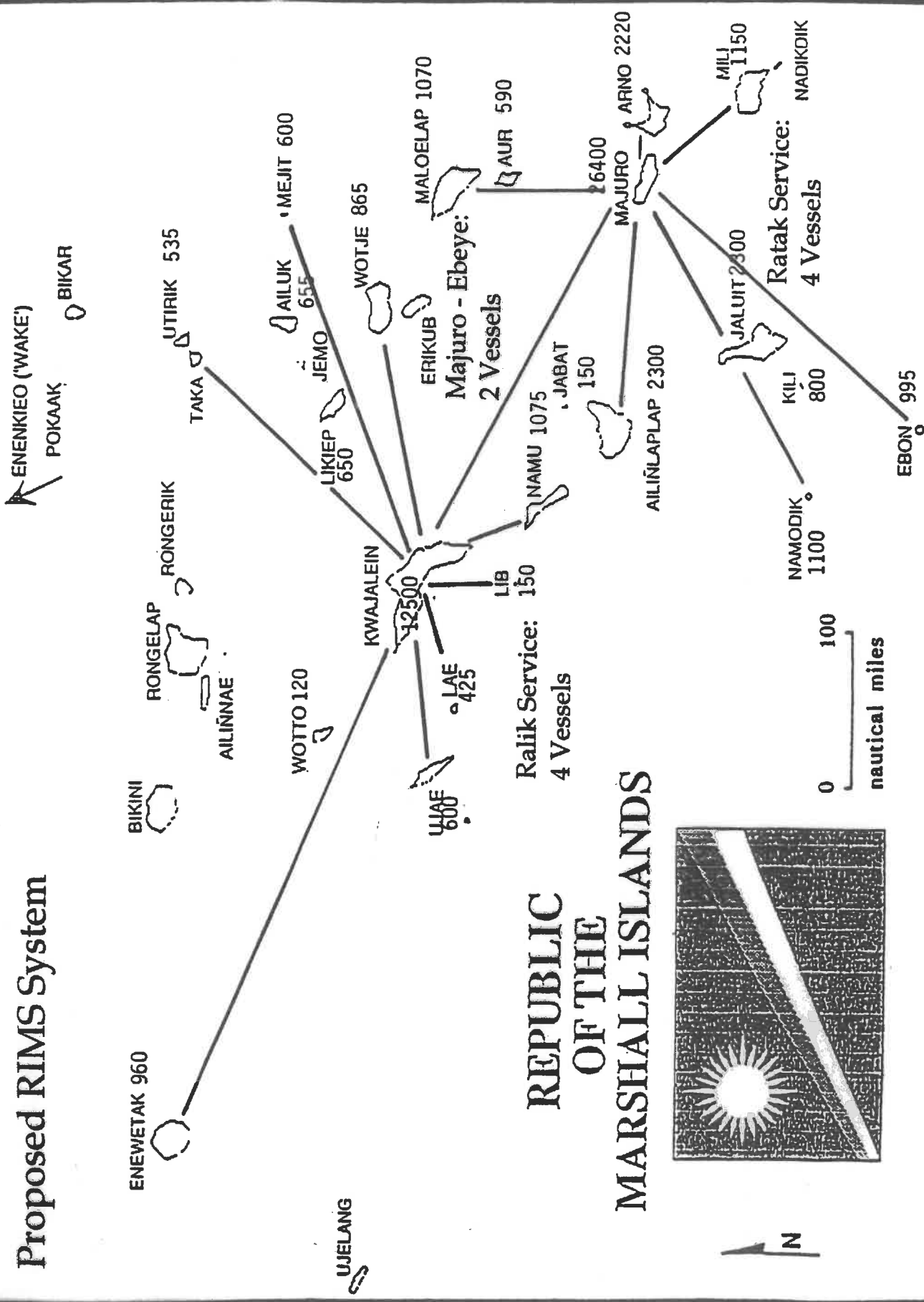
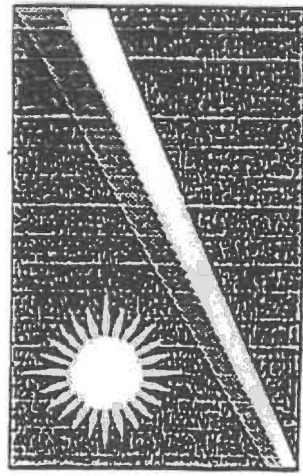
WAYPAYER 65 is easily rigged for SCUBA diving parties. Needed equipment simply bolts in place and is easily removed to restore vessel to original freight/passenger configuration.

The forward part of the cargo hold converts into a cabin with six additional berths and lockers. The aft part of the hold stows diving tanks, air compressor and related gear. Diving platforms with "swim ladders" are rigged out-board.

WAYPAYER 65 can also operate as base vessel for underwater archaeological and salvage work.

Proposed RIMS System

REPUBLIC OF THE MARSHALL ISLANDS



ENENKIEO ('WAKE')
POKAAK
BIKAR

BIKINI
RONGELAP
RONGERIK
AILINNAE
TAKA
UTIRIK 535

KWAJALEIN
12500

WOTJE 865
MEJIT 600
AILUK 655
JEMO
LIKIEP 650
ERIKUB
MALOELAP 1070
AUR 590
NAMU 1075
JABAT 150
MAJURO 26400
ARNO 2220
AILINLAPLAP 2300
JALUIT 2800
KILI 800
NAMODIK 1100
MILI 1150
NADIKDIK
EBON 995

LIB 150
Ralik Service: 4 Vessels

Majuro - Ebeye: 2 Vessels

Ratak Service: 4 Vessels

WAYPAYER Vs. MICRO CLASS

Summary Technical Comparison

	<u>Micro Class</u>	<u>Waypayer 65</u>
Length	185 Feet	65 Feet
Beam	33 Feet	19 Feet
Draft	11 Feet	8.5 Feet
CDWT	560 Tons	30 Tons
Speed	11 Knots	9 Knots
Range	5500 NM	1000 NM
Fuel Rate	46 GPH	9 GPH (0 Sail)
Crew	28	6 (8 SCUBA)
Passengers in Cabin	12	6 (12 SCUBA)
Reefer Capacity	No	Yes
Fleet Size	3	10
Schedule	Irregular	Regular

Cost Summary (1)

RIMS WAYPAYER 65

	<u>Vessel No. 1</u>	<u>Vessel No. 5</u>
Direct Materials	87750	87750
Direct Labor	25600	19200
Indirect Costs	15723	10695
Engineering	48995	10695
Overhead	49920	23040
Profit & Escalations	34198	22707
Spare Parts	14479	10530
Series Production	<u>0</u>	<u>-9231</u>
TOTAL PRICE	\$276,665	\$175,386

- 1: The above cost summary estimates are preliminary and for illustration purposes only. Final cost estimates can be prepared only after completion of vessel engineering, building site preparation analysis and receipt of quote for transport of materials to building site.

SUMMARY

ADVANTAGES OF WAYPAYER 65

Local Assembly of Ship Kits:

- Lower RMI labor rate reduces build cost
- Save FOREX
- Pride, care, maintainability

Lower Operating Costs:

- Smaller crew size per vessel (not fleet)
- Lower fuel consumption
- Overall lower RFR than Micro class type

Social Benefits:

- Employment and skills enhancement
- Better service frequency / reliability
- Reduce migration from outer atolls

Marine Stability:

- Visually exciting (Annual boat race, etc.)
- Outer atolls more accessible to all
- Ease of refit to SCUBA expedition boat

REQUIRED ACTION

Detailed internal cargo market survey and finalize inter-atoll service design

Complete design engineering and prepare detailed vessel specification plus cost estimate

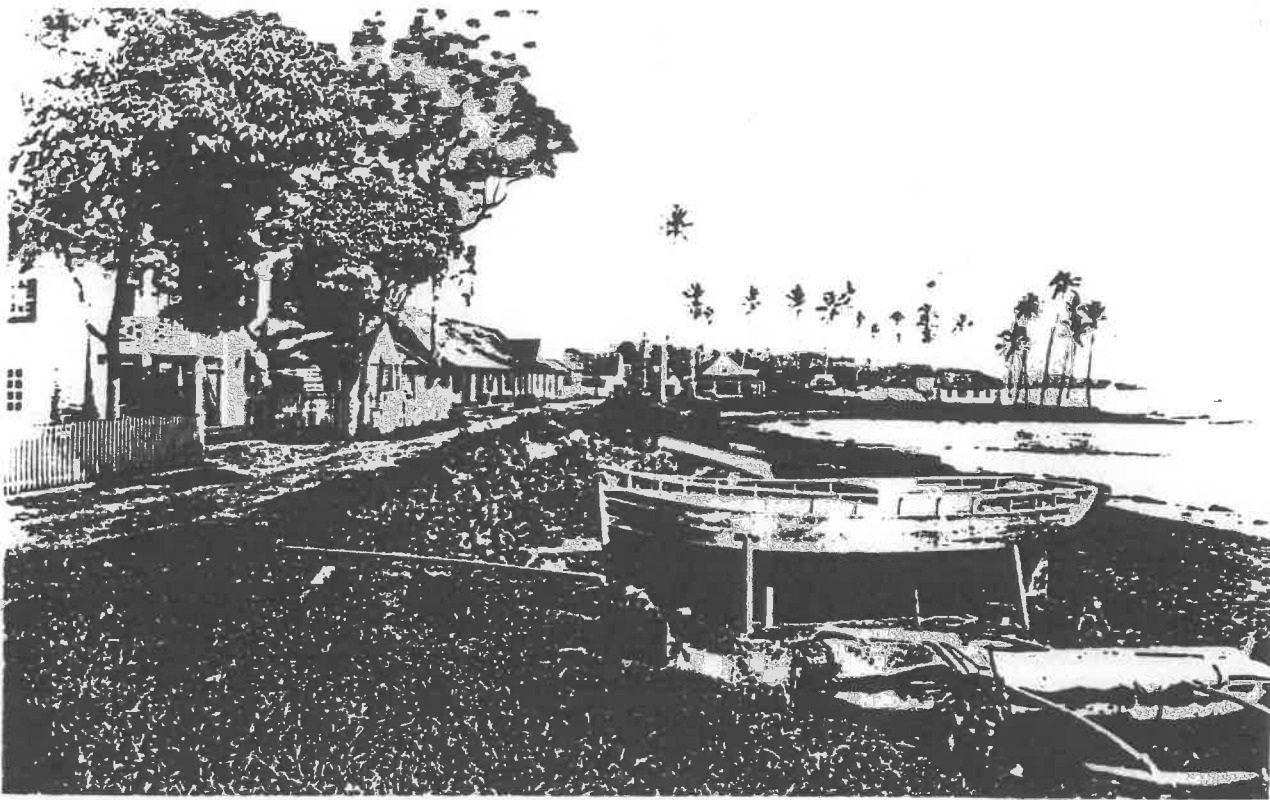
Building site selection and obtain quotes for logistical services to transport vessel kits and supplies to RMI

Identification/selection of team(s) to build and operate RMI RIMS system

Create most appropriate package to finance RIMS RMI project

“It goes without saying that sea transportation constitutes the principal means for internal and external trade, movements of goods, services and people. It is inconceivable in a region in which the lives of its people are inextricably bound to the sea, that sea transportation should not be treated with greater significant importance.”

H.E. President Amata Kabua
“ON REGIONAL TRANSPORTATION”



Shipbuilding on a beach in Hilo, Hawaii about 1880. (Courtesy of the Archives of Hawaii)