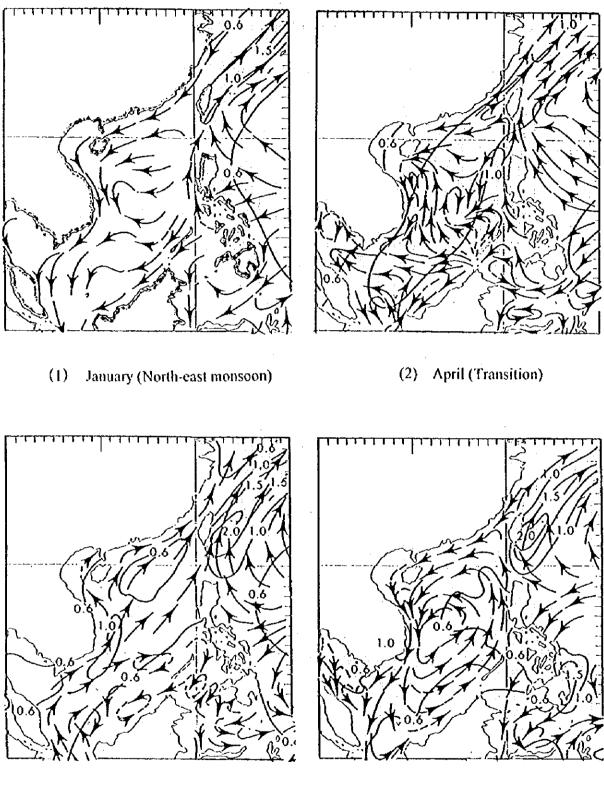
### Table A 4.3.7 Waves by Typhoons with a Return Period of 50 Years (Dung Quat)

Offshore	Location	Water	$K_{dl}$	$K_{d2}$	К,	Ksb	$H_{1/3}$	H <sub>max</sub>	$H_{D}$	Incident
Wave		Depth					(m)	(m)	(m)	wave angle
Direction		(m)								(deg)
	MS1	16.7	0.83	-	0.93	0.97	6.6	11.2	11.2	9.5
	MS2	16.9	0.76	+	0.93	1.00	6.2	10.9	10.9	42.5
	MS3	9.7	0.45	-	0.92	1.17	4.2	6.9	6.9	25.5
	MS4	12.5	0.83	0.12	0.93	1.00	0.8	1.5	1.5	36.0
	MS5	10.3	0.83	0.15	0.93	1.10	1.1	2.0	2.0	77.0
NE	MS6	7.7	0.83	0.15	0.93	1.20	1.2	2.1	2.1	82.0
	MS7	4.5	0.83	0.12	0.93	1.38	1.1	2.0	2.0	83.0
	ISP1	17.7	0.73		0.93	1.00	6.0	10.0	10.0	42.5
	ISP2	18.4	0.66	-	0.93	0.98	5.3	9.3	9.3	48.5
	ISP3	2.7	0.73	0.07	0.93	1.75	0.7	1.2	1.2	N197
	ISP4	2.7	0.73	0.05	0.93	1.67	0.5	0.9	0.9	N154
	MSI	16.7	0.67	-	0.89	1.00	5.2	9.0	9.0	39.5
	MS2	16.9	0.57	-	0.89	1.00	4.5	8.1	8.1	61.5
	MS3	9.7	0.27	-	0.85	1.10	2.2	4.0	4.0	25,5
	MS4	12.5	0.67	0.08	0.89	1.00	0.4	0.8	0.8	36.0
	MS5	10.3	0.67	0.08	0.89	1.00	0.4	0.8	0.8	77.0
ENE	MS6	7.7	0.67	0.05	0.89	1.00	0.3	0.6	0.6	82.0
	MS7	4.5	0.67	0.05	0.89	1.33	0.4	0.7	0.7	83.0
	ISP1	17.7	0.53	-	0.89	0.98	4.1	7.5	7.5	56.0
	ISP2	18.4	0.46	-	0.89	0.97	3.5	6.4	6.4	48.5
	ISP3	2.7	0.53	0.05	0.89	1.50	0.3	0.5	0.5	N197
	ISP4	2.7	0.53	0.05	0.89	1.50	0.3	0.5	0.5	N154
	MSI	16.7	0.47	-	0.79	1.00	3.3	5.9	5.9	39.5
	MS2	16.9	0.38	-	0.79	0.96	2.5	4.7	4.7	61.5
	MS3	9.7	0.14	-	0.77	1.11	1.0	1.8	1.8	25.5
	MS4	12.5	0.47	0.08	0.79	1.00	0.3	0.6	0.6	36.0
	MS5	10.3	0.47	0.08	0.79	1.00	0.3	0.6	0.6	77.0
Е	MS6	7.7	0.47	0.08	0.79	1.00	0.3	0.6	0.6	82.0
	MS7	4.5	0.47	0.08	0.79	1.33	0.4	0.7	0.7	83.0
	ISP1	17.7	0.33	-	0.79	1.00	2.3	4.1	4.1	56.0
	ISP2	18.4	0.28	-	0.79	1.00	1.9	3.4	3.4	48.5
	ISP3	2.7	0.33	0.05	0.79	0.50	0.1	0.3	0.3	N197
	ISP4	2.7	0.33	0.05	0.79	0.50	0.1	0.3	0.3	N154

Offshore deepwater wave:  $H_0 = 8.8$  m with  $T_0 = 13.5$  sec.

Note: The "incident wave angle" is the angle from the line perpendicular to the face line of a breakwater or a seawall. "N30E" implies the angle of 30 degrees measured clockwise from the north.

Source: JICA Study Team



- (3) July (South-west monsoon)
- (4) October (Transition)

Figure A 4.4.1 Surface Current in the South China Sea

Source : US Navy "Marine Climate Atlas of the World, Vol III, Indian Ocean" March, 1976

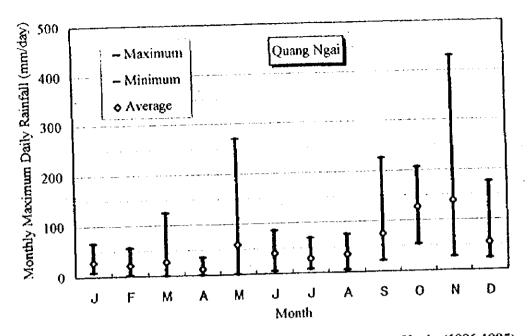


Figure A 4.6.1 Monthly Maximum Daily Rainfall at Quang Ngai (1986-1995) Data source: Hydro-meteorological Data Center

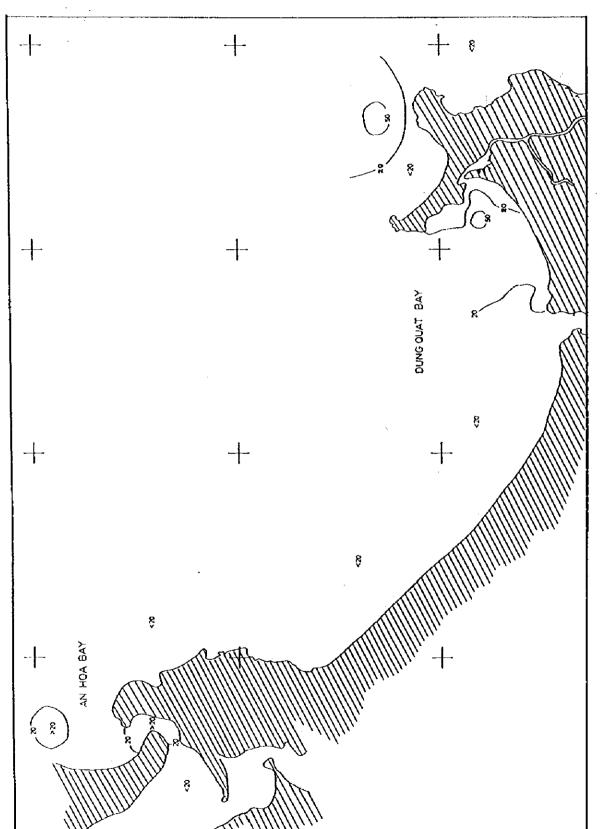


Figure A 4.7.1 Percentage Distribution of Silt/Clay of Bottom Sediment in Dung Quat Source: JICA Study Team

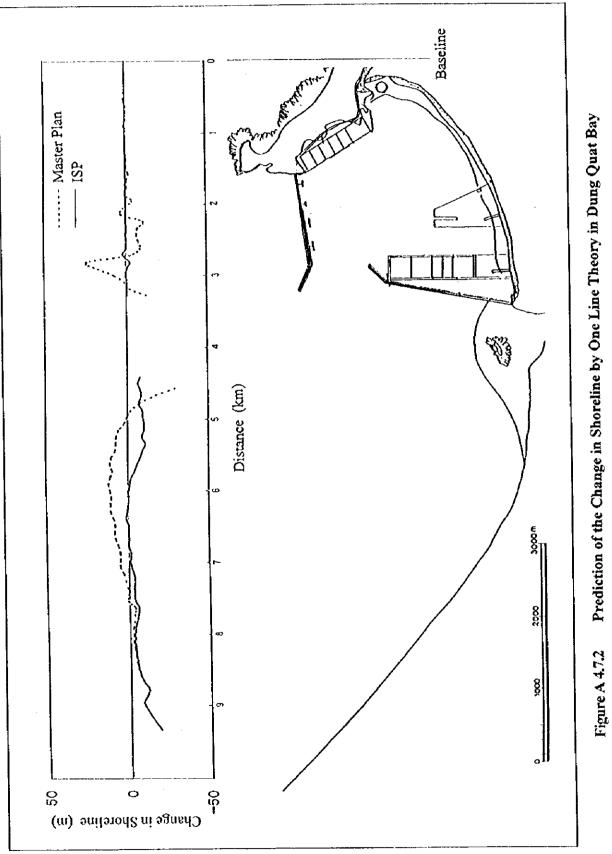




Table A4.8.2 Result of Soil Test in Lien Dung Quat Physico-Mechanical Properties of Soil

Dung Quat in 1997

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Shours		1120.2	1048.0	7837	910.6	1249.4	- 905.3	1015.2	1403.2	1147.7	1114.6	1106.8	10001	10/01
	Domestic	2011	19005	2604.8	2575.1	3081.9	2724.5	2516.0	2433.3	2378.1	2706.3	3249.8	4516.0	4805.0
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	Export	0.00	0.40	1.4/2	4007	1 275	327.4	255.7	127.0	163.5	211.0	489.8	631.6	560.0
Danang	Import	264.0	10.031	0.0101	11091	168.3	644	67.1	63.8	87.1	91.5	57.4	49.2	77.3
-	Domestic	204.4	4.461	101.0	1.001	585 0	6 995	430.3	260.4	313.3	371.9	666.7	830.3	850.0
	Total	5Z1.4	1990	7.4	0,120	10193	2015 7	2085 6	1625.8	2495.9	2359.6	2551.7	2308.0	2540.0
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Saigon	Import	906.0	869.0	1240.9	1402.9	1040.0	0.427	4717	650.8	596.5	421.2	418.6	644.0	600.0
	Domestic	541.0	201.0	401.0		0.21/	1005	C 1452	4159.6	5003.9	5508.6	6438.5.	7211.0	7200.0
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	Export					132.0	00.1	12 17	112	80.4	27	26.0	186.0	133.0
Quang Ninh	Import	174.0	143.0	0./61	142.7	2.02	3.04	00 61	747	19.5	12	4.1	14.0	174.0
	Domestic	44.0	85.0	0'10	4.40	27.02	3114	798.2	424.6	718.8	683.1	520.0	647.0	793.0
	Total	218.0	228.0	239.2		C.C.7	0.04	- 1.C	48.1	55.8	72.3	73 4	63.0	96.0
	Export	20.0	21.0	277.8	10.4	10.65	286	- V -	20	50	10.9	16.3	86.0	208.0
Nghe Tinh	lmport	60.0	48.0	2.00	0.00	4.10	10.1 1	2.23	0.92	1 64	080	116.5	161.0	156.0
	Domestic	108.7	100.4	101.3	141.3	120.8	1.00	0.00	1.701	132.9	182.1	206.2	310.0	460.0
	Total	188.7	169.4	1/3.0	100.0	1/0.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	740 6	2120	225.8	276.9	152.5	171.0	180.0
	Export	31.8	33.1	00.0	0.00	0770	1021		67	0.6	30.5	89.2	152.0	198.0
Qui Nhon	lmport	29.3	2.41	47.7	t, r t t t t t t t t	04.7	46.24	48.8	51.9	100.2	104.4	161.3	124.0	172.0
	Domestic	98.4	103.4	0.00	1010	0 790	270.0	300.2	300.3	335.0	411.8	403.0	447.0	550.0
	Total -	C.YC1	0.101	C 70	1.1.2	670	1104	144.3	81.9	28.1	24.9	28.3	16.5	45.0
l	Export	53.0	72.8	20.2		0.10	575	226	74	25.5	14.8	59.3	214.5	260.0
Nha Trang	lmport	28.6	22.5	20.4	7.17	114 5	517 617	403	58.6	100.9	141.5	126.3	112.0	115.0
	Domestic	108.9	71.7	72.4	19.010	2 6 2 6	1 250	21.20	147.9	154.5	181.2	213.9	343.0	420.0
	Total	190.5	186.8	740.1	C'017	0.202	0.004	42.8	47.0	30.6		44.]	66.0	88.3
	Ехроп					4.07	0.40	42.8	55.0	62		13.61	23.6	17.0
Can Tho	Import					52.0	101	10.01	7 7 7	22.6		8.1	36.3	68.5
	Domestic		×	•	<u> </u>		7.01	47.70	106.7	59.4	0.0	65.8	125.9	173.8
	Total -	0.0	0.0	0.0	0.0	1.121	2 0000	3279 01	2801 8	10035	3897.9	3902.9	3715.0	4283.0
	Export	808.3	869.8	1055.0	C.1201	1250.0	10.7656	21512	1 7 2020	10200	4173.8	5864.6	7914.7	7936.0
Total	lmport	2593.6	2700.3	3553.8	0./105	0.000	0 2021	10062	1 5V20	2146.6	1973 3	1996.4	2800.5	3032.8
	Domestic	2244.7	2149.2	1795.4	2.0801	2004.8	4.0401	10001	10.8301	0.2000	10045.0	11763.9	14430.2	15251.8
	Total	5646.6	5719.3	6404.2	6525.3	C.4/1/	0.0025	0.0070	1-00-1	1 20202			U.J -	

A 6.3.1 Historical Trend of Cargo Handling Volume of Main Port in Vietnam

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Growth Rate (%)	4.95	4.35	10.26	4.39	4.94	9.15	9.46	10.40	5.03	5.04
	• •									
Year	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Growth Rate(%)	5.94	5.23	5.54	5.75	4.69	5.58	9.60	13.29	12.17	11.75

1974 1975 1976

1977

1978

1979

1980

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Table A 6	<b>£</b> 1	11	• • •	11111	11	s Data	AFT ND	1	Thailan	and three	nn LUXA	_1045
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1973

Year	1991	1992	1993	1994	1995
Growth Rate(%)	8.04	8.11	8.34	8.79	8.68

1972

1971

Year

### Table A 6.5.1 (2) Growth Rates of Socioeconomic Data in Thailand

Year	Growth rate of Population	Growth rate of GDP	Growth rate of AgricultureGDP		Growth rate of Service GDP
1996- 2000	0.99	8.4	3.5	10.0	8.0
2001- 2010	0.75	7.7	3.5	9.0	7.0
2011- 2020	0.48	6.9	3.5	8.0	6.0

:Statistical Yearbook Thailand 1995 Source

#### Northeast Thailand (Mukdahan Area) - R-9 Hinterland

Year	Growth rate of Population	Growth rate of GDP	Growth rate of AgricultureGDP		Growth rate of Service GDP
1996- 2000	0.99	7.2	4.0	9.0	8.0
2001- 2010	0.75	7.4	4.0	9.0	8.0
2011- 2020	0.48	7.6	4.0	9.0	8.0

#### Northeast Thailand (Ubon Ratchathani Area) - R-16.18 Hinterland

Year	Growth rate of Population	Growth rate of GDP	Growth rate of AgricultureGDP		Growth rate of Service GDP
1996- 2000	0.99	7.3	4.0	9.0	8.0
2001- 2010	0.75	7.5	4.0	9.0	8.0
2011- 2020	0.48	7.7	4.0	9.0	8.0

Year	Population	GDP/ capita (US\$)	GDP (miltion US\$)	A-GDP (million and Sha	US\$)	I-GDP (miltion and Sha	-	S-GDP (million and Sha	
1995	4,581,000	380	1,760	971	55	326	19	463	26
2000	5,267,000	490	2,581	1,242	48	575	22	764	30
	(5,200,000)	(500)							
2010	6,845,000	830	5,705	2,020	35	1,705	30	1,980	35
2020	8,648,000	1,500	13,030	3,290	25	4,840	37	4,900	38

Table A 6.5.1 (3) 'Target Value of Socioeconomic Data in Lao PDR

Note : ( ) indicates that GDP per capita is approximately 500 US\$ when population is 5.2 million.

Central-Southern Lao (Savannakhet Area) - R-9 Hinterland

Year	Population	GDP/	GDP	A-GD	)	I-GDP		S-GDP	, , , , , , , , , , , , , , , , , , ,
		capita		(millior	n US\$)	(million	US\$}	(million	US\$)
		(US\$)	(million US\$)	and Sha	are(%)	and Sha	re(%)	and Sha	re(%)
1995	832,000	380	320	177	55	59	19	84	26
2010	1,243,000	830	1,040	368	35	310	30	360	35
2020	1,570,000	1,500	2,370	599	25	881	37	892	38

Southern Lao (Pakse Area) - R-16.18 Hinterland

Year	Population	GDP/	GDP	A-GDI	2	I-GDP		S-GDP	
		capita		(millio	n US\$}	(million	US\$}	(miltion	US\$)
		(US\$)	(million US\$)	and Sh	are(%)	and Sha	ue(%)	and Sha	sre(%)
1995	748,000	380	286	158	55	53	19	75	26
2010	1,118,000	850	930	329	35	278	30	323	35
2020	1,413,000	1,500	2,120	536	25	789	37	799	38

Table A 6.5.1 (4) Target Value of Socioecond	omic Data in Thailand
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Year	Population	GDP/	GDP	A-GDP	I-GDP	S-GDP
		capita (US\$)	(million US\$)	(million US\$) and Share(%)	(million US\$) and Share(%)	(million US\$) and Share(%)
1995	59,401,000	2,810	167,100	18,300 11	66,600 40	82,200 49
2010	67,230,000	7,350	522,000	30,600 6	254,000 49	238,000 46
2020	70,503,000	14,400	1,017,000	43,200 4	548,000 54	425,000 42

Northeast Thailand (Mukdahan Area) - R-9 Hinterland

Year	Population	GDP/	GDP	A-GDP		I-GDP		S-GDP	
		capita		(million	US\$)	(million	US\$)	(million)	US\$)
		(US\$)	(million US\$)	and Sha	re(%)	and Sha	re(%)	and Shan	e(%)
1995	3,303,000	760	2,520	620	25	358	14	1,540	61
2010	3,739,000	1,950	7,300	1,120	15	1,300	18	4,880	67
2020	3,921,000	3,890	15,200	1,660	11	3,080	20	10,500	69

Northeast Thailand (Ubon Ratchathani Area) - R-16.18 Hinterland

Year	Population	GDP/	GDP	A-GDP	,	I-GDP		S-GDP	
		capita		(million	US\$)	(million	US\$)	(million)	US\$)
		(US\$)	(million US\$)	and Sha	re(%)	and Sha	re(%)	and Shan	e(%)
1995	3,850,000	750	2,900	701	24	474	16	1,720	59
2010	4,357,000	1,940	8,450	1,260	15	1,730	20	4,970	65
2020	4,569,000	3,880	17,800	1,660	11	4,080	23	11,800	66

Year	GDP	Export Cargo	Import Cargo
	(million US\$ in 1995 price)	(000 ton)	(000 ton)
1971	28,445	7,836	9,787
1972	29,682	9,191	12,684
1973	32,727	8,349	12,809
1974	34,165	9,905	11,578
1975	35,852	7,811	11,532
1976	39,132	12,665	13,087
1977	42,835	15,310	17,009
1978	47,288	12,866	17,582
1979	49,668	12,867	18,243
1980	52,170	13,206	18,86
1981	55,270	15,795	17,013
1982	58,162	20,001	15,555
1983	61,382	16,626	14,518
1984	64,909	19,377	18,504
1985	67,950	19,459	18,753
1986	71,742	21,067	16,488
1987	78,629	21,353	16,313
1988	89,077	25,451*	22,908*
1989	99,912	29,946*	28,544*
1990	111,652	27,659*	26,170*
1991	120,630	28,674*	39,782*
1992	130,410	32,123*	43,528*
1993	141,283	36,419*	39,450*
1994	153,707	39,431*	42,701*
1995	167,060	42,667*	46,200*

Table A 6.5.1 (5) GDP, Export cargo and Import cargo in Thailand

Source : Foreign Trade Statistics of Thailand /Department of Customs Bangkok

Transport Statistics /MOTC

Note :\* mark means modified data by Bangkok Port statistics

Year	Logs	Sawn Timbers	Plywood
1991	301,000 m3	110,000 m3	347,000 sheets
1992	218,000 m3	246,000 m3	304,000 sheets
1993	516,000 m3	271,000 m3	1,508,000 sheets
1994	595,000 m3	n.a.	1,800,000 sheets

#### Table A 6.5.3 (1) Forestry Products in Lao PDR

Source:CPC basic Statistics

## Table A 6.5.3 (2) Forest Product Export in Lao PDR

year	Logs Volume(m3)	Sawn timber Volume(m3)
1985	14,000	8,000
1989	26,000	94,000
1990	39,000	100,000
1993	32,000	130,000

Source:CPC basic Statistics

# Table A 6.5.3 (3) Forest Plantation in Lao PDR

Total	8,828 ha
R-9 Hinterland	824 ha (9%)
Savannakhet(100%)	645 ha
Saravane(50%)	112 ha
Sekong(50%)	67 ha
R-16/18 Hinterland	950 ha (11%)
Saravane(50%)	112 ha
Sekong(50%)	67 ha
Champasack(100%)	726 ha
Attapeu(100%)	5 ha

Source:Department of Forestry, MAF

## Table A 6.5.3 (4) Distribution of wood shops in Thailand

Region	Sawn Timber Shop	Wood Products Shop
Bangkok	844 (29%)	1,035 (38%)
Central Region	1,147 (39%)	715 (26%)
North Region	243 ( 8%)	586 (22%)
North East Region	413 (14%)	336 (12%)
South Region	259 ( 9%)	48 (2%)
Total	2,906 (100%)	2,724 (100 %)

Source :Forestry Statistics 1990

	1993	1994	Average
Japan	273,000	512,000	392,500
China	130,000	553,000	341,500
Hong Kong	241,000	238,000	239,500
Northeast Asian	644,000	1,303,000	973,500
Economies World	4,987,000	4,858,000	4,922,500

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Table A 6.5.3 (5) Export of Rice from Thailand to Northeast Asia

Source :Statistical Yearbook Thailand 1995

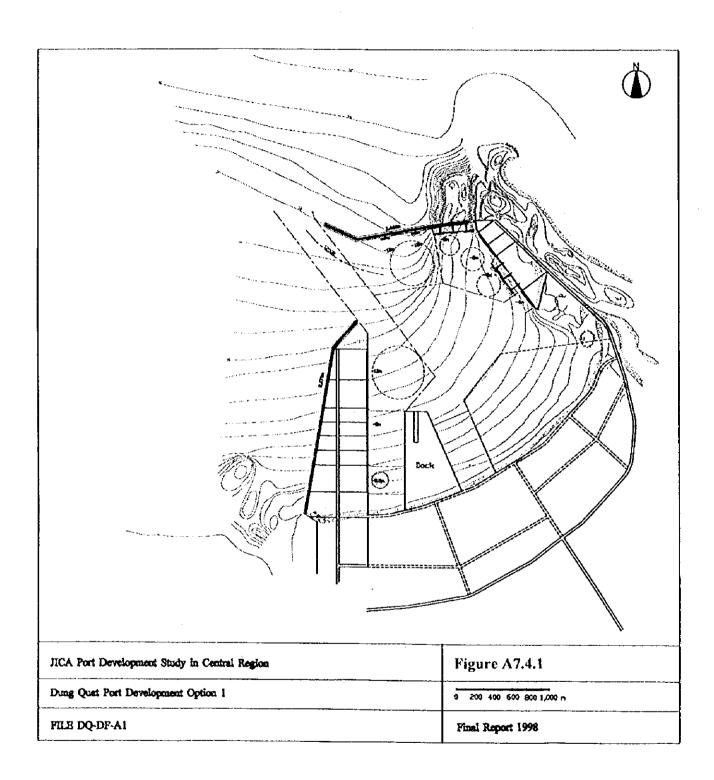
Table A 6.5.3 (6)	<b>Current Productivity and Fertilizer Consumption</b>

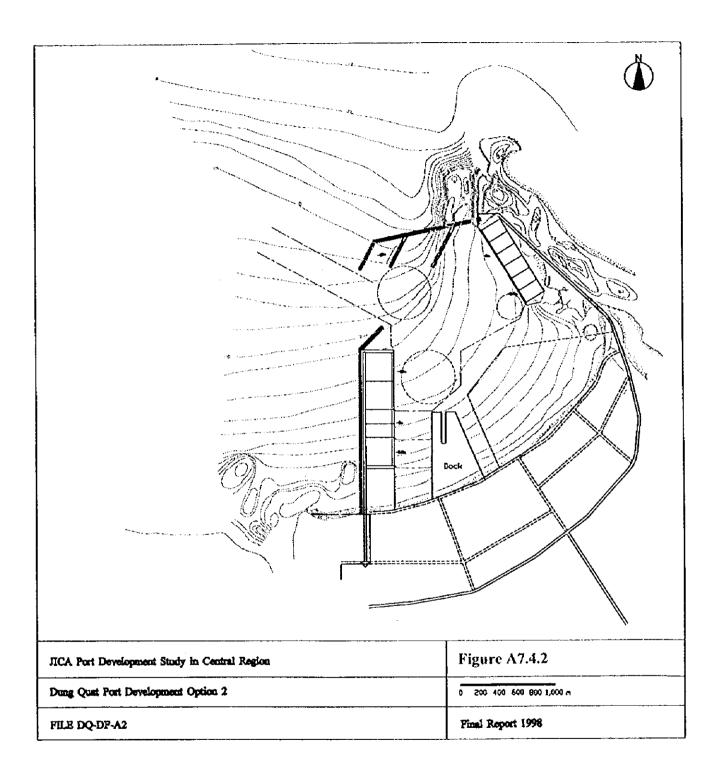
Area	Yield (kg/ha)	Current	Future
		Fertilizer	Fertilizer
		Consumption	Consumption
		(kg/ha)	(kg/ha)
Lao PDR	2700	6	100
Thailand	2340	55	100
Asian Average	3780	129	129

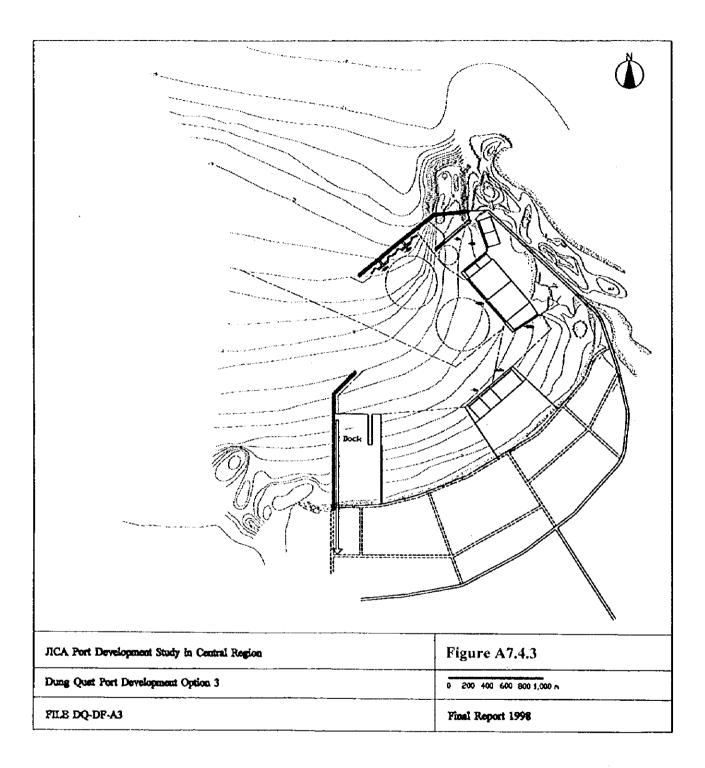
r			<b></b>	_ <del></del>		[······]					its in m)
Type	Tonnage	Overall	Moulded		Full load	Туре	Tonnage	Overall	Moulded	Moulded	-
		length	breadth	depth	draft			length	breadth	depth	draft
	G.T					Container ship	D.W				
Passenger ship	2,000	88	13.2	6.4	4.0		40,000	263	33.5	20.7	12.4
	3,000	99	14.7	7.6	4.5		50,000	280	35.8	22.6	13.0
	5,000	120	16.9	9.5	5.2		D.W				
	8,000	142	19.2	11.6	5.8	Oil tanker	1,000	61	9.8	4.4	4.0
	10,000	154	20.4	12.9	6.2		2,000	77	12.2	5.6	5.0
	15,000	179	22.8	14.7	6.8		3,000	88	13.8	6.5	5.6
	20,000	198	24.7	16.1	7.5		5,000	104	16.2	7.8	6.5
	30,000	230	27.5	18.3	8.5		10,000	130	20.1	10.1	8.0
	G.T						15,000	148	22.8	11.7	9.0
	1,000	73	14.3	9.4	3.7		20,000	162	24.9	13.0	9.8
	2,000	69	17.1	10.7	4.4		30,000	185	28.3	15.2	10.5
oat	3,000	- 113	18.9	11.5	4.9		40,000	204	30.9	16.6	[ 113
Ą	4,000	127	20.2	12.2	5.3		50,000	219	33.1	17.5	12.
Ferryboat	6,000	138	22.4	13.2	5.9		60,000	232	35.0	18.4	13.
	10,000	170	25.4	14.5	6.5		70,000	244	36.7	19.2	14.
	13,000	188	27.1	15.3	6.7		80,000	255	38.3	19.9	14.
	15,000	200	28.1	15.7	6.9		G.T				
	D.Ŵ					Pure car carrier	700	77	12.8	6.9	4.
	700	58	9.7	5.5	3.7		1,000	86	14.1	8.0	. 4.
	1,000	64	10.4	5.8	4.2		2,000	105	17.1	10.7	5.
	2,000	81	12.7	6.8	4.9		3,000	117	19.1	12.7	6.
	3,000	92	14.2	1.7	5.7		5,000	136	22.0	15.8	6.
	5,000	109	16.4	9.0	6.8		6,000	144	23.1	17.1	7.
Cargo ship	8,000	126	18.7	10.3	8.0		10,000	166	26.6	21.2	8.
	10,000	137	19.9	<b>II.I</b>	8.5		15,000	187	29.8	25.1	8.
	15,000	153	22.3	12.5	9.3		20,000	203	32.2	28.4	9,
	30,000	186	27.1	15.2	10.9	Gas tanker	G.T				
	40,000	201	29.4	16.5	11.7		1,000	70	11.7	5.7	5.
	50,000	216	31.5	17.5	12.4		2,000	87	14.3	7.3	5.
	70,000	235	33.8	19.2	13.4		3,000	99	16.1	8.5	6.
	90,000	252	37.2	20.6	14.2		5,000	117	18.6	10.2	7.
	100,000	259	38.7	21.2	15.8		10,000	145	22.7	13.1	9.
	150,000	290	45.0	23.7	17.5		15,000	165	25.5	15.2	10
ين ع	D.W						20,000	181	27.7	16.9	H.
Container ship	20,000	201	27.1	15.6	10.6		30,000	206	31.2	19.6	12.
ا ؓ ق	30,000	231	30.7	18.4	11.6		50,000	242	36.1	23.6	13.

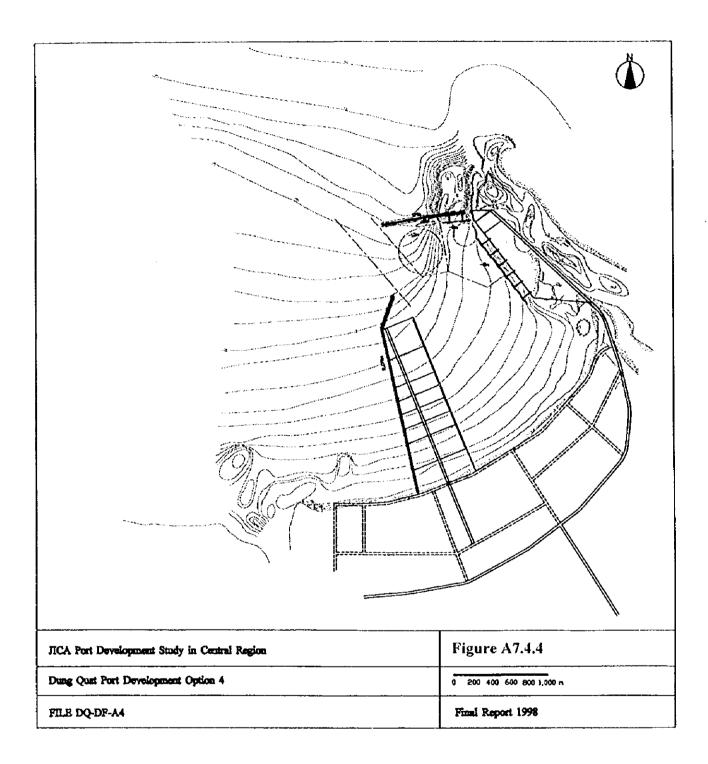
Table A7.3.1 Standard Size of Ships

G.T : gross Tonnage D.W : Dead Weight Tonnage









						Quang N	•		15° E110	°)
Wave	0.00-	0.50-	1.00-	1.50-	2.00-	2.50-	3.00-	4.00-		- f
Height	0.49 m				,	2.99 m		4.99 m	5.00 m-	Total
¥		<u> </u>								·····
NNE		8	57	57	35	33	30	. 1		221
		0.27%	1.95%	1.95%	1.20%	1.13%	1.03%	0.03%		7.57%
NE		42	146	67	25	10	5			295
		1.44%	5.00%	2.29%	0.86%	0.34%	0.17%			10.10%
ENE	2	623	465	167	45	26	23	1		1352
	0.07%	21.34%	15.92%	5.72%	1.54%	0.89%	0.79%	0.03%		46.30%
E		2	.3	4	3	2	1			15
		0.07%	0.10%	0.14%	0.10%	0.07%	0.03%			0.51%
ESE	1	2	4	· · ·						7
	0.03%	0.07%	0.14%							0.24%
SE		42	28	3						73
		1.44%	0.96%	0.10%						2.50%
SSE		118	184	15	1					318
		4.04%	6.30%	0.51%	0.03%					10.89%
S		147	159	: 9	1					316
		5.03%	5.45%	0.31%	0.03%					10.82%
SSW		68	70	4	1					143
		2.33%	2.40%	0.14%	0.03%					4.90%
SW		39	44	8						91
	İ	1.34%	1.51%	0.27%						3.12%
WSW		2	8	1						11
		0.07%	0.27%	0.03%						0.38%
W		2								2
		0.07%								0.07%
WNW		1								1
	ļ	0.03%								0.03%
NW		1	2	1						4
	ļ	0.03%	0.07%	0.03%					·	0.14%
NNW		1	2	2						-
	ļ	0.03%	0.07%	0.07%						0.17%
N			10	17	16			-		66
			0.34%	0.58%						2.26%
Total	3		1182	355			67			2920
	0.10%	37.60%	40.48%	12.16%	4.35%	2.77%	2.29%	0.24%	•	100.00%

TABLE A7.5.2 Direction-wise Offshore Wave Heights Occurrence

Upper column: Estimated number of occurences of the wave height

Lower colum: Frequency of occurances of the wave height

Data: 1 Jan. 1993 - 31 Dec. 1994

Site: N15° E110°

Estimated from wind data obtained by European Center for Medium Range Weather Forecast

	U	nit; Vehicles per day
Type of Vehicle	2010	2020
Container Truck	0	64
Truck for Bulk Cargo	61	267
Truck for Break Bulk Cargo	166	728
Lorry for Petroleum	61	194
Car for Passenger	143	626
Total	430	1,879

### Table A 7.5.4 Port Access Traffic

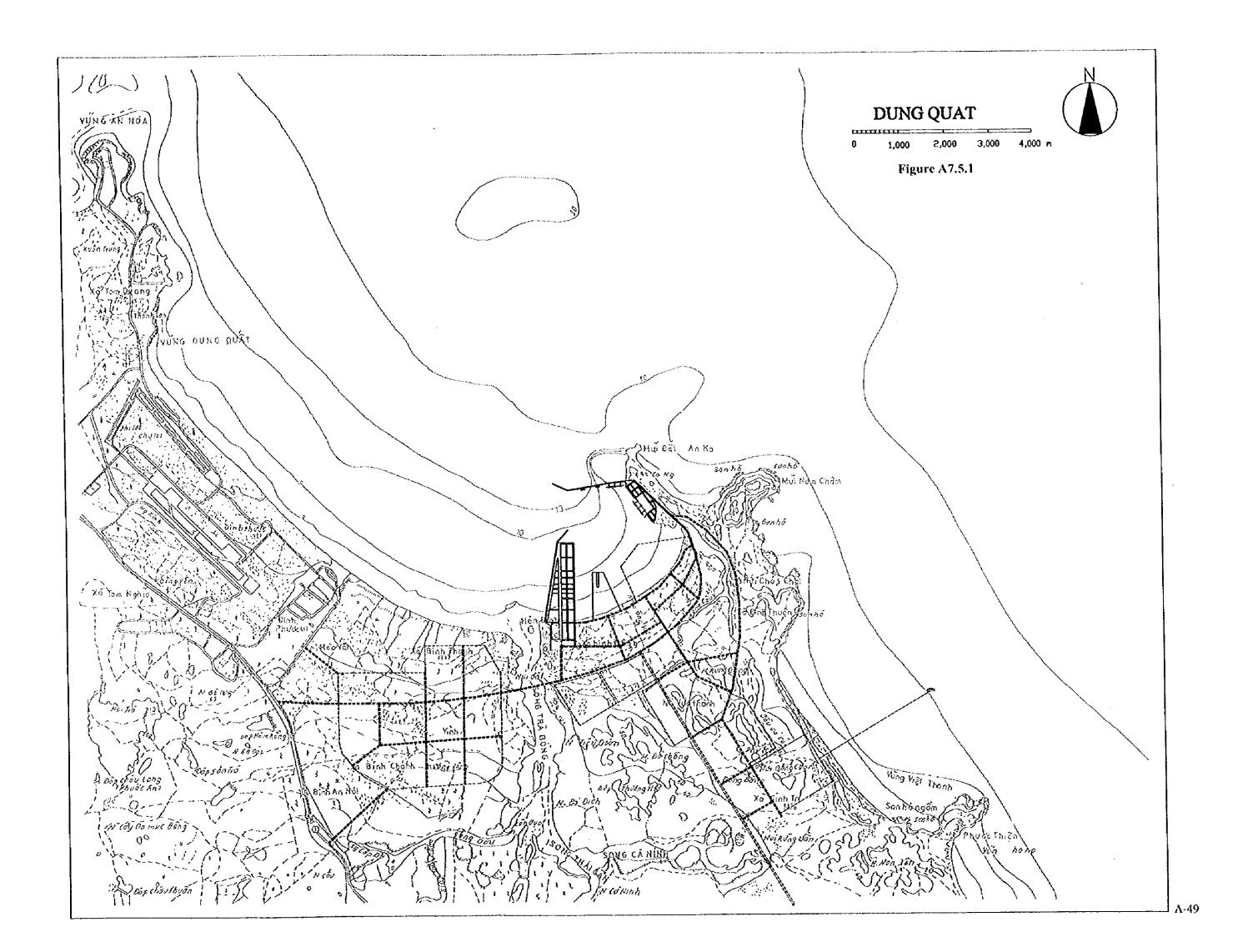
Formula of Traffic Volume Estimation

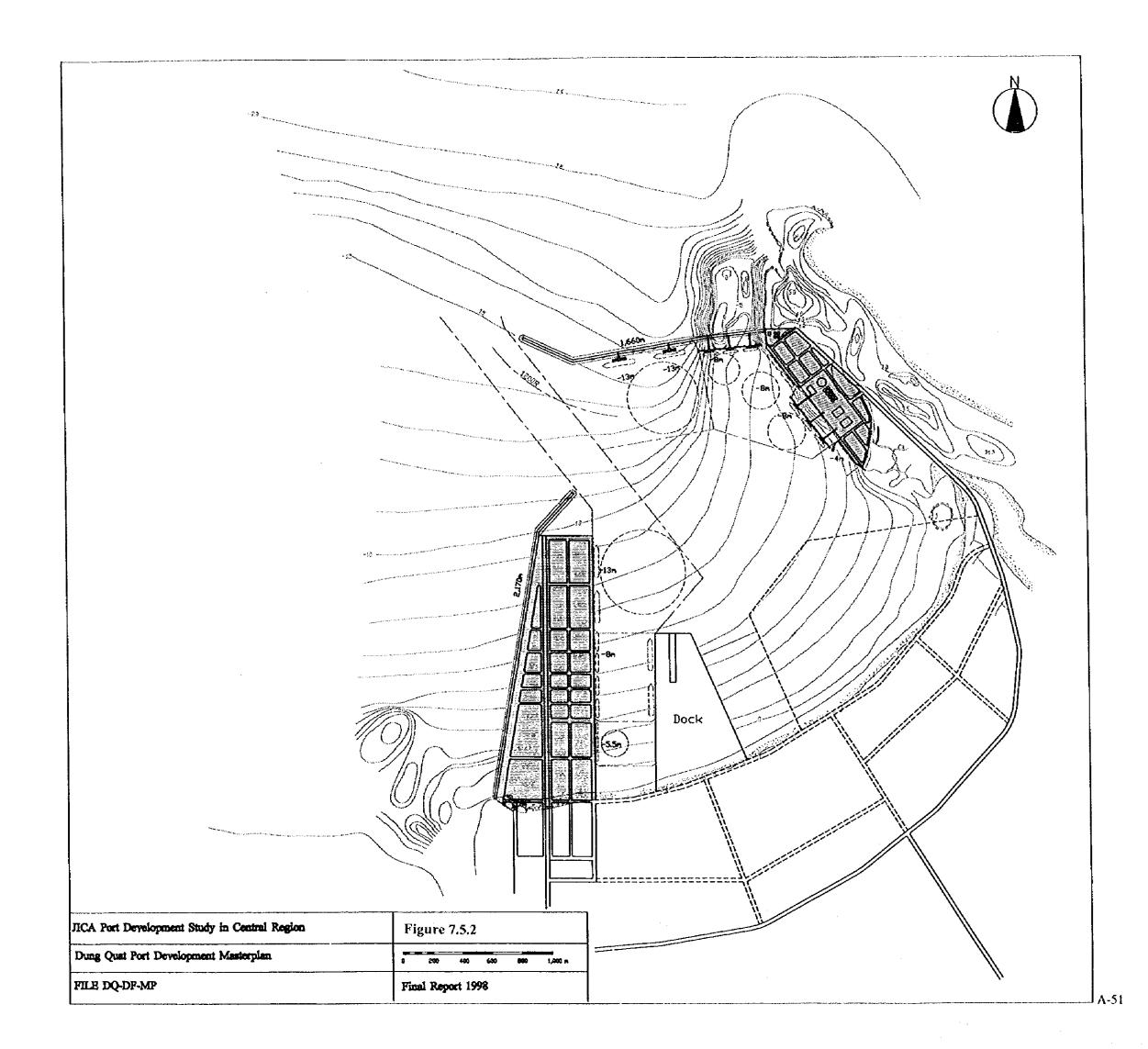
 $Q = \sqrt{x} \frac{\alpha}{\omega} \times \frac{\beta}{12} \times \frac{\gamma}{30} \times \frac{1+\delta}{\varepsilon} \times \sigma$ where  $\alpha : 1.0$  $\beta : 1.2$  $\gamma : 1.3$  $\delta : 0.5$  $\varepsilon : 0.5$  $\sigma : 0.14$  $\omega : 1.0TEU(Container)$ : 4.0(Break Bulk): 5.0(Bulk): 10.0(Liquid) .

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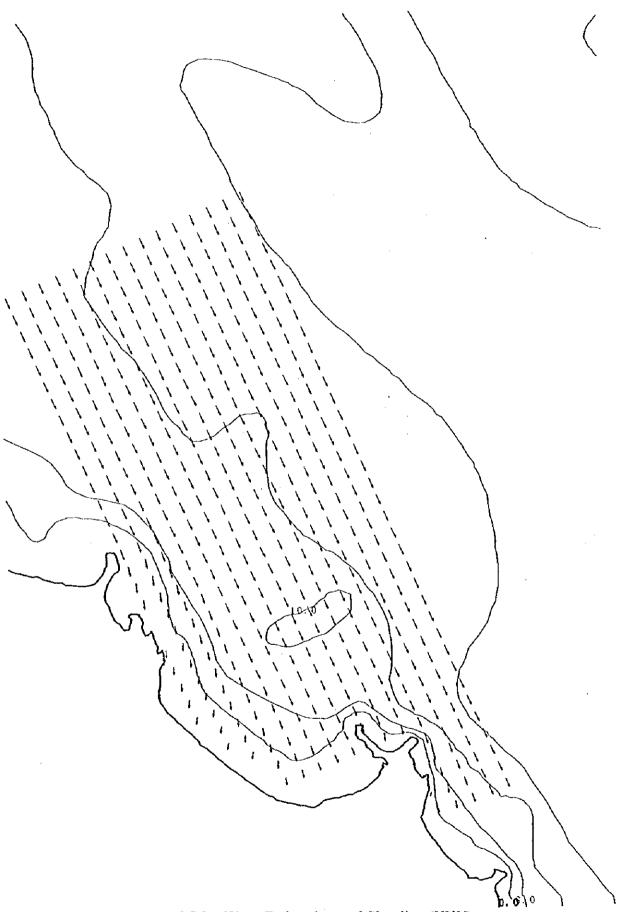
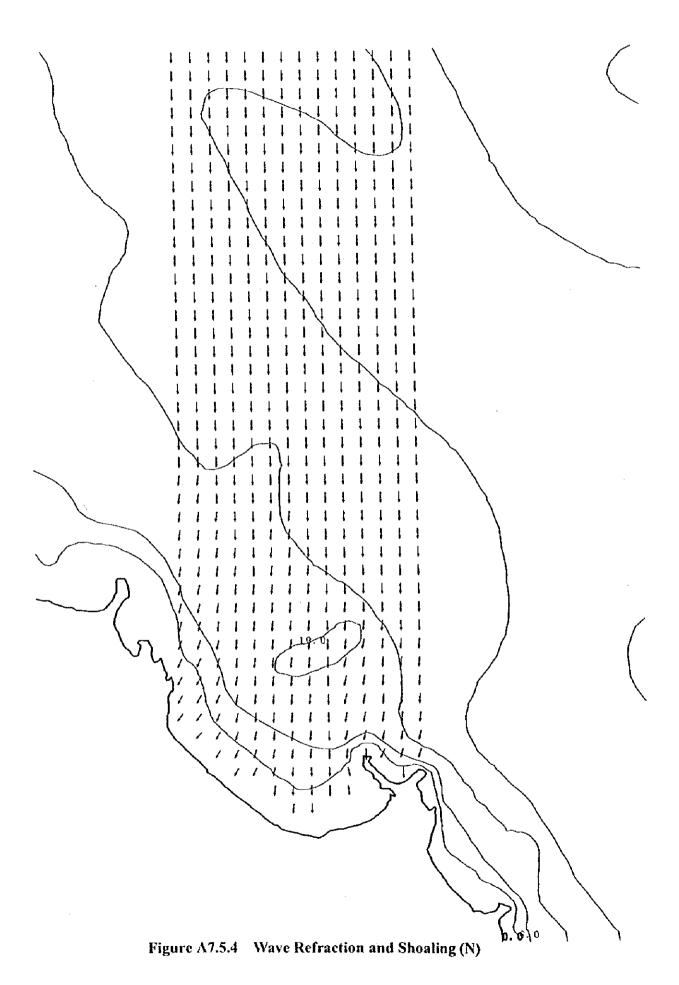


Figure A7.5.3 Wave Refraction and Shoaling (NNN)



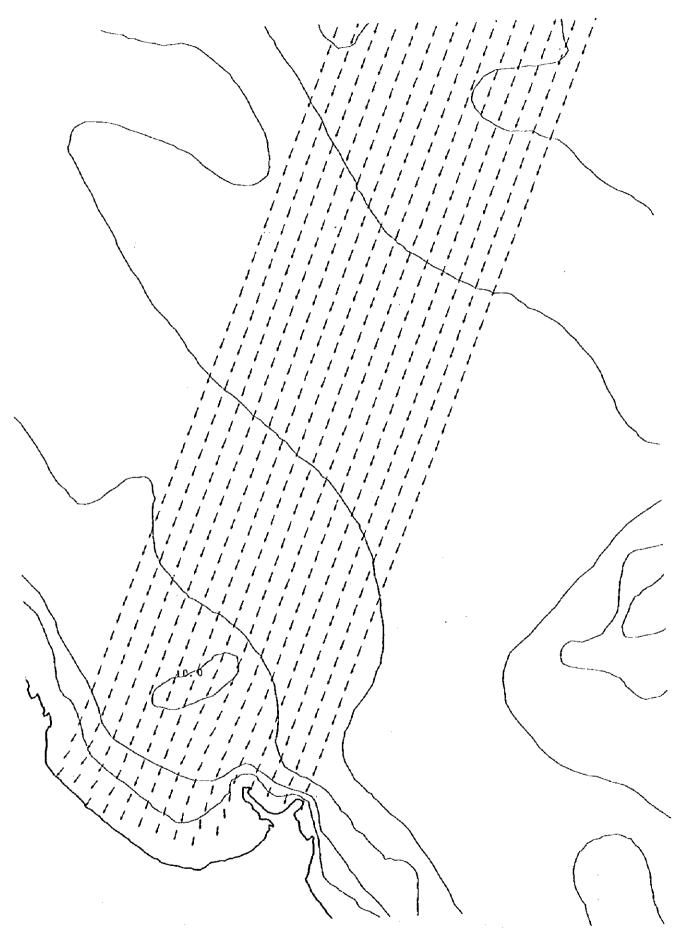


Figure A7.5.5 Wave Refraction and Shoaling (NNE)

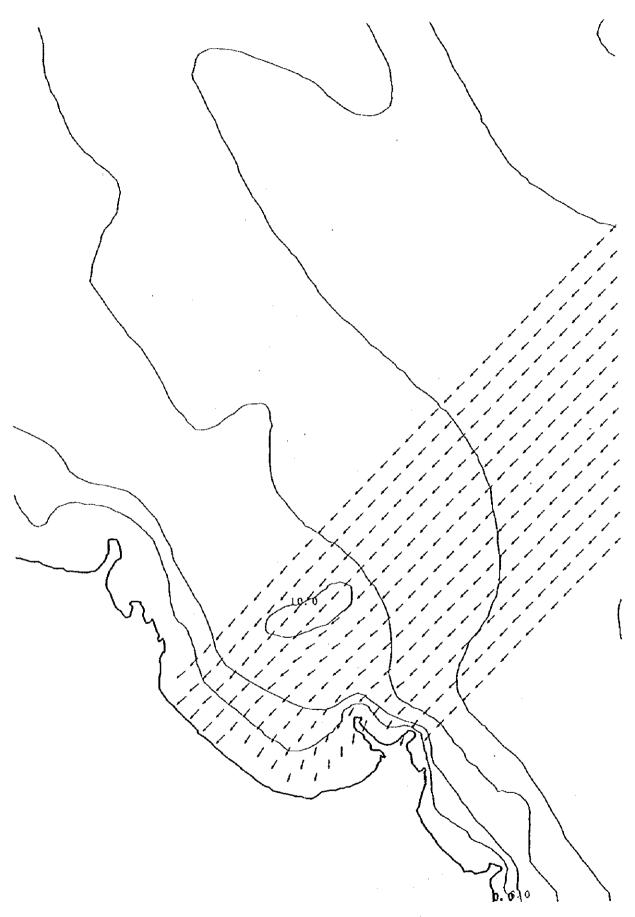


Figure A7.5.6 Wave Refraction and Shoaling (NE)

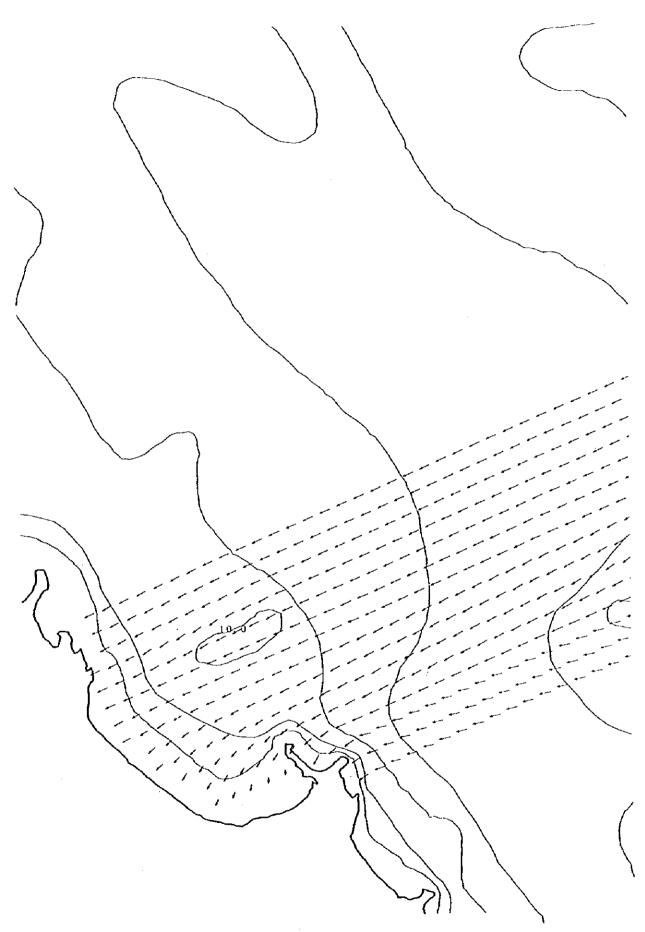


Figure A7.5.7 Wave Refraction and Shoaling (ENE)

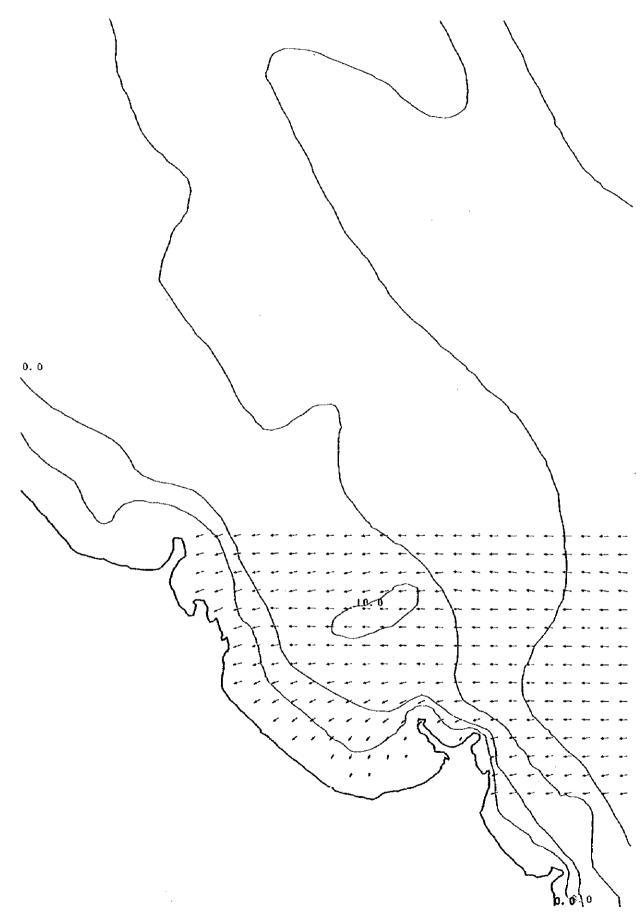


Figure A7.5.8 Wave Refraction and Shoaling (E)

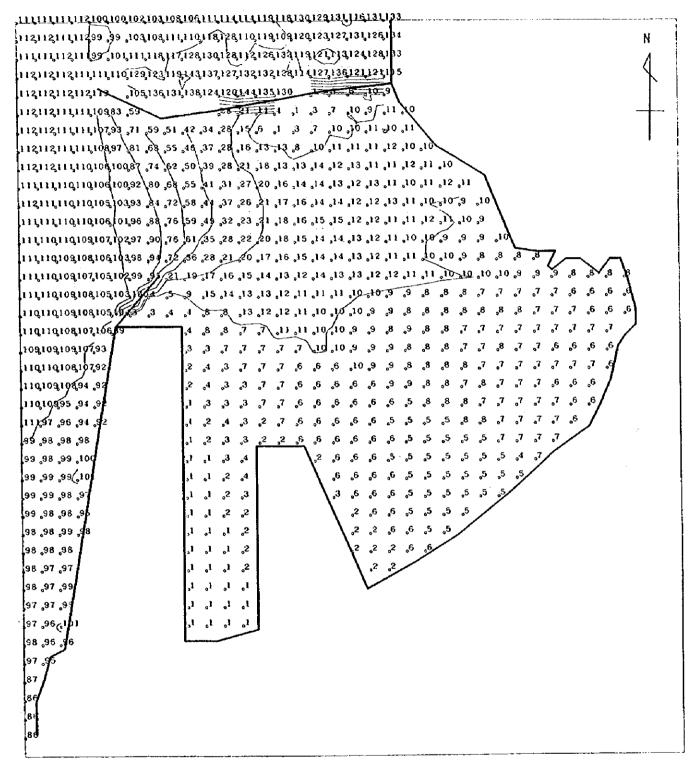


Figure A7.5.9 Wave Diffraction in Harbor (NNW)

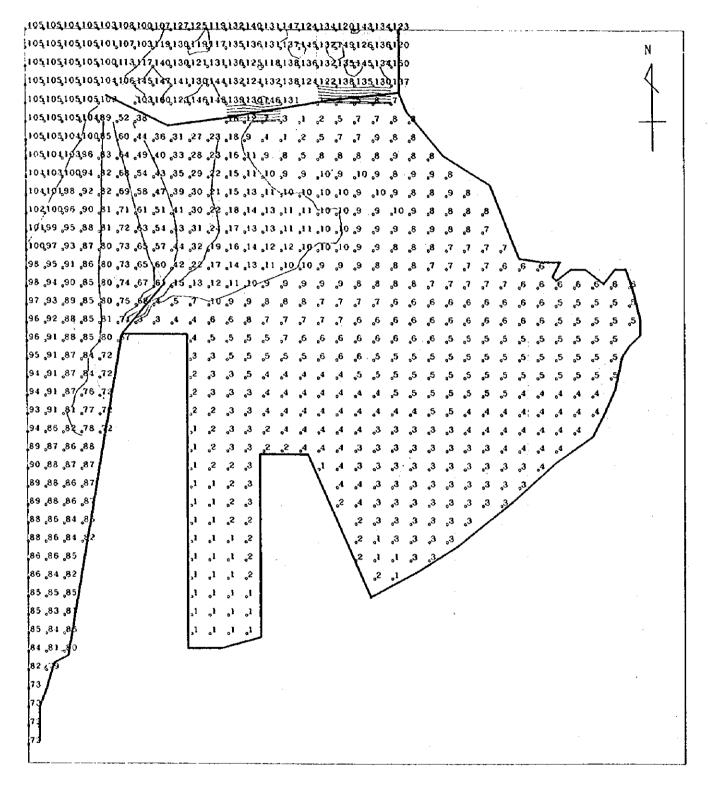


Figure A7.5.10 Wave Diffraction in Harbor (N)

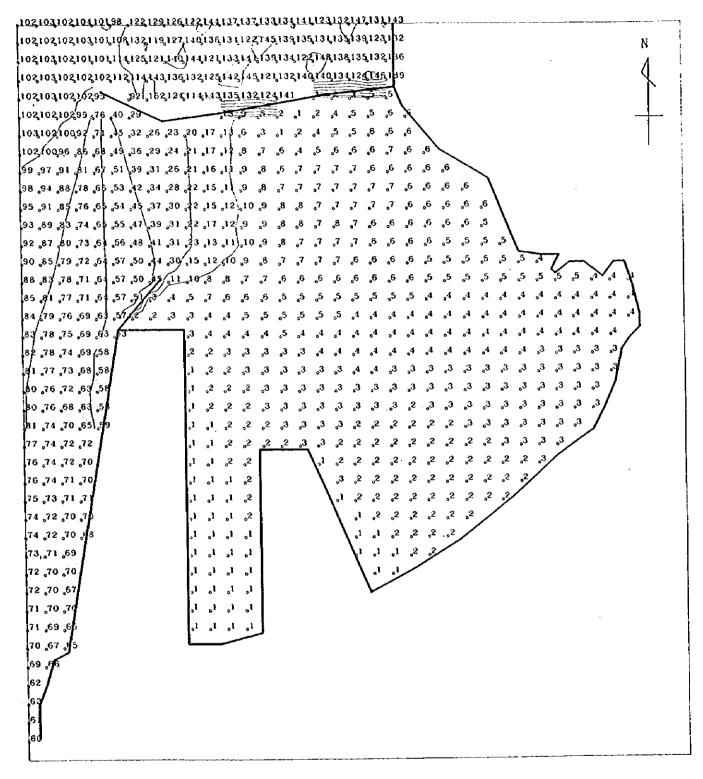
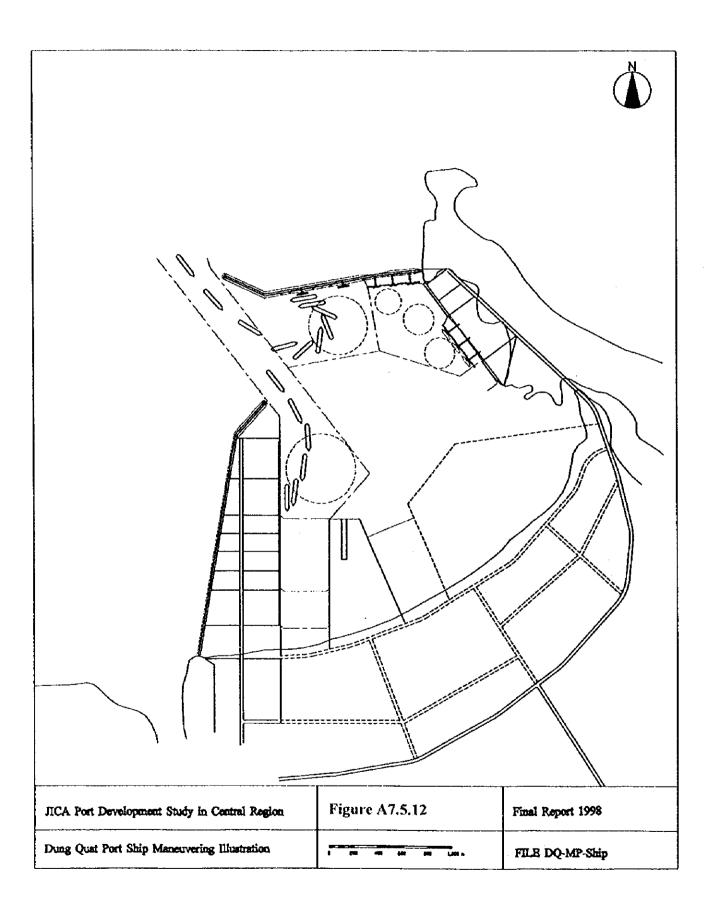
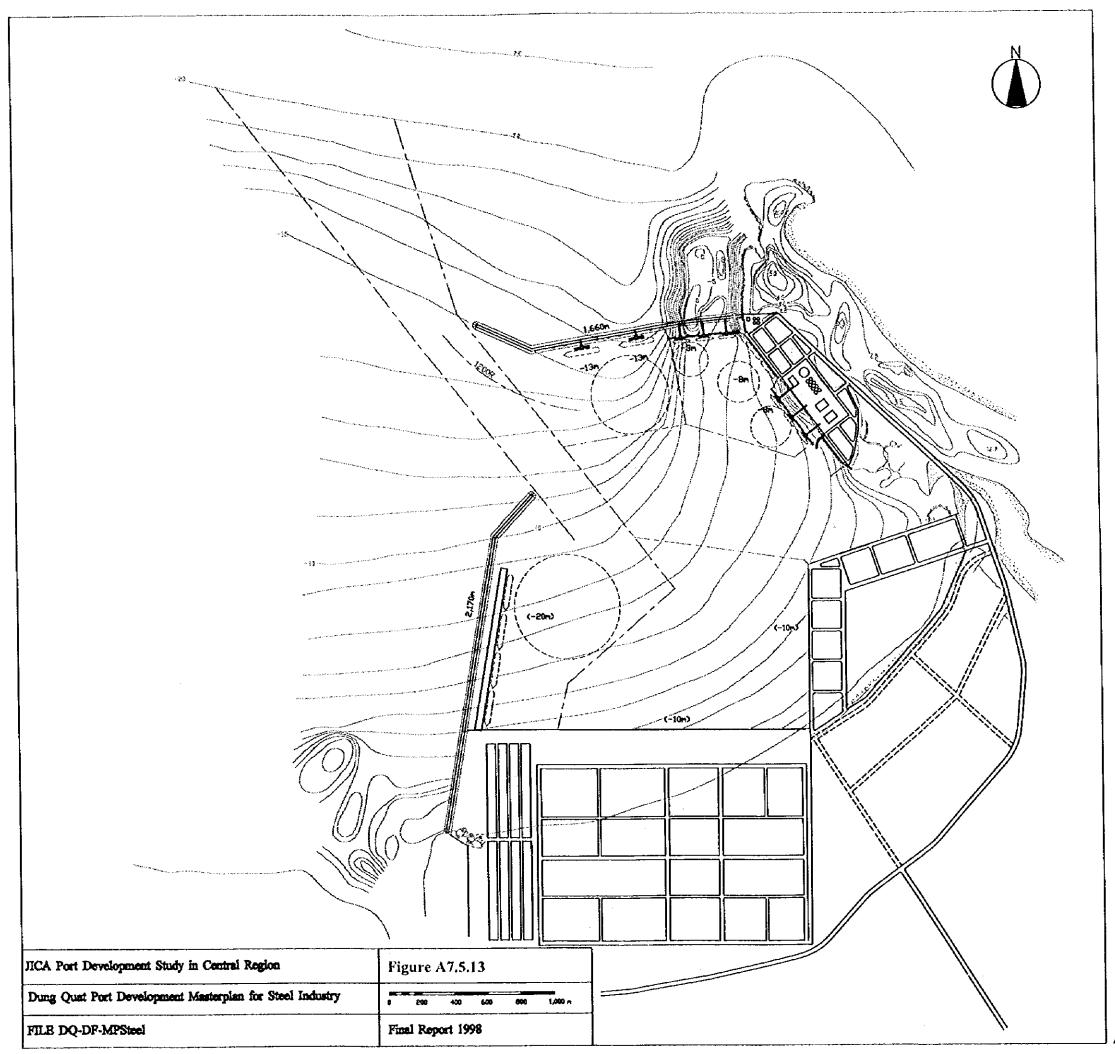


Figure A7.5.11 Wave Diffraction in Harbor (NNE)

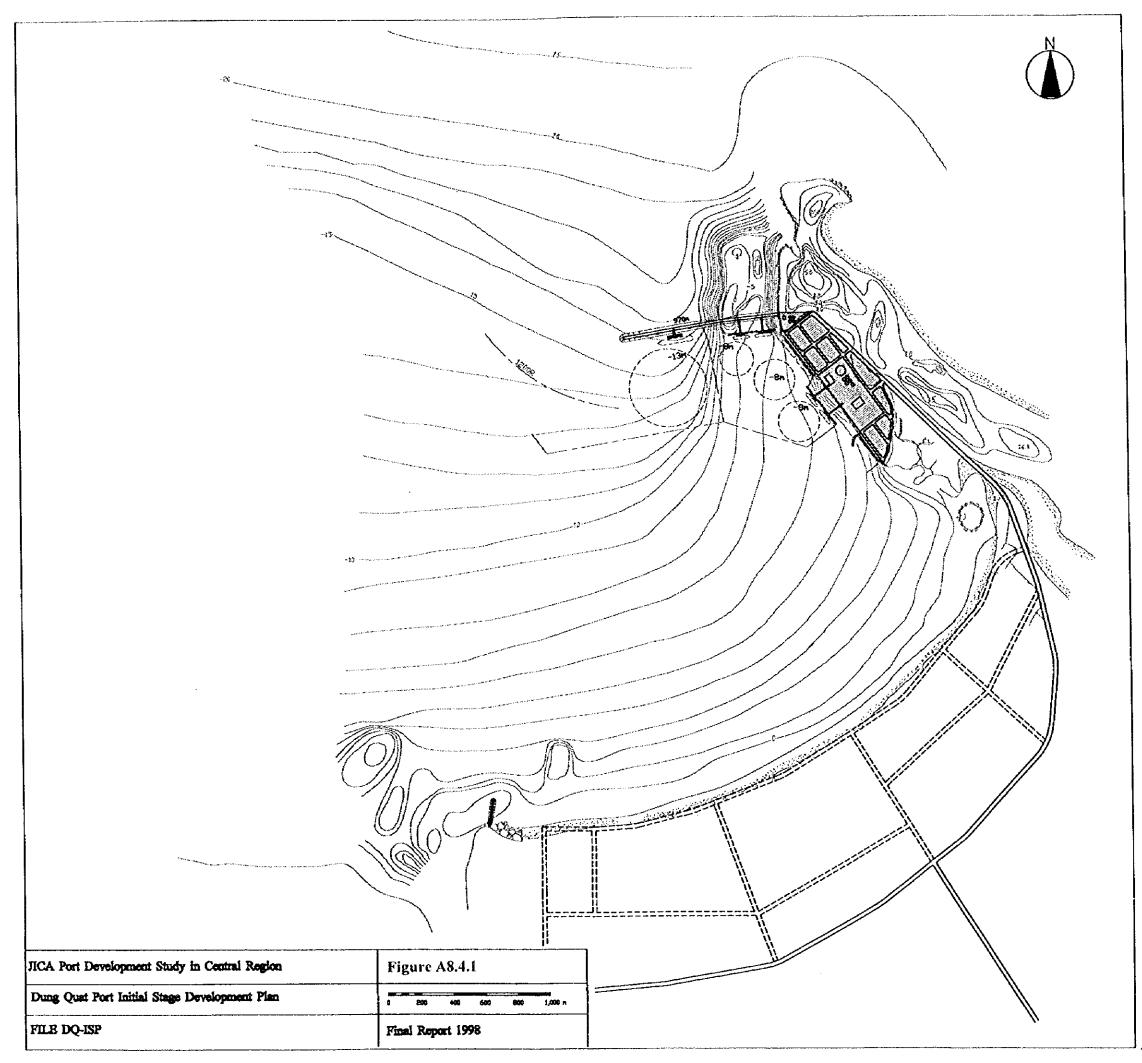


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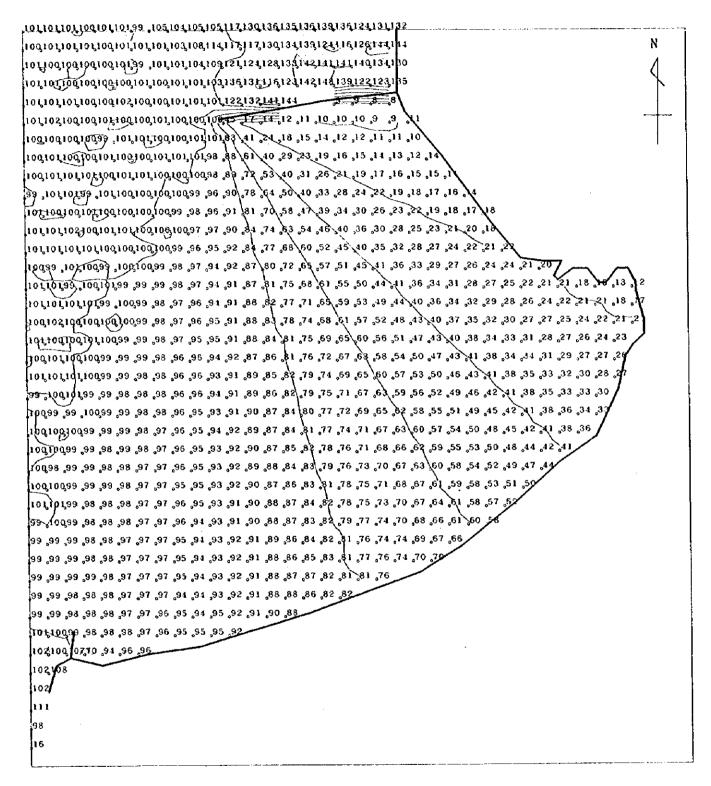


Figure A8.4.2 Wave Diffraction at the Stage of ISP (NNW)

103101104104103100104107118125118138143125142134124144137124142 N 10110210197,10499,1081041121151151152128129197134130140115146192 10410110010459 38 39 100114108/122/4312173131241241444444444 10299 99 10198 99 10110310411011414212015208745744136216148105 101 107 13 112 1159 115 10310210210310298 .101.104101 17,13,11,10,9,9 39-99,10010010110410410210210010 10010210110110210210110210096156 ,26 .16 .13 .11,10 .9 **\_8** ,8 98 102102102102302, 10, 10, 100, 100, 100, 20, 25, 42, 35, 26, 20, 16, 14, 12, 11, 10, 9, 9 ,10 <mark>,</mark>9 ,9 10110239 10110258 10036 93 88 79 67 55 44 35 28 22 19 16 14 13 12 11 10 10 . 10:10 10010210210210210097 ,95 ,91 ,86 ,77 ,68 ,57 ,47,38 ,31 ,26 ,22 ,19 ,16 ,15 .13 97. 102102393,98,16099,98,95, 96, 84, 77, 68, 59, 50, 28, 25, 28, 25, 31, 19, 16, 15 12 12 11 10 9 11, 81, 12, 12, 82, 28, 88, 24, 52, 13, 69, 67, 48, 88, 28, 39, 000001, ee, p1, Fe, 86 13 12 11 71 10 9 8 71, 18، 20، 25، 25، 30، 35، 46 46، 54، 54، 69، 14، 54، 88، 19، 30، 35، 30، 36، 26، 23، 20، 18، 17 8, e, 01, 01, 11, 11, 11, e. 01. 01. of, 11, 21, 21, 21, 17, 18، 00, 25, 25, 28, 30, 34, 49, 55, 49, 49, 55, 28, 25, 28, 25, 28, 25, 28, 25, 28, 20, 18, 17 \_16 10310210197 .99 .95 .90 .88 .85 .81 .75 .68 .63 .57 .50 .44 40 .35 .31 .27 .25 .22 20 .18 .17 .16 13 12 12 11 10 .13 1، 12، 12، 13، 13، 14، 10، 18، 20، 14، 20، 24، 25، 25، 14، 14، 14، 15، 25، 54، 54، 24، 16، 16، 15، 13، 12، 12، 1 14 13 12 12 10310499 95 92 92 88 86 83 79 74 70 64 58 53 48 43 39 34 32 28 26 23 24 20 18 .15 14 13 10395 ,94 ,94 ,94 ,91 ,89 ,85 ,83 ,78 ,74 ,70 ,65 ,59 ,55 ,49 ,45 140 ,37 ,33 ,30 ,27 ,25 ,23 ,24 20 .18 98,98,98,95,92,89,88,85,87,74,70,65,60,55,51,46,42,39,35,32,29,26,25,23,20,20,18,17 16 15 15 97 ,96 ,93 ,92 ,91 ,89 ,87 ,84 ,82 ,78 ,74 ,70 ,65 ,61 ,56 ,52 ,47 ,44 ,40 ,37 ,33 ,31 ,28 ,25 ,24 ,22 ,20 ,19 ,17 ,16 96 ,95 ,93 ,91 ,89 ,86 ,84 ,\$1 ,77 ,74 ,70 ,66 ,\$2 ,57 ,53 ,49 ,45 ,41 ,38 ,35 ,32 ,30 ,28 ,25 ,24 ,22 ,20 ,19 ,19 27 25 24 22 94 93 93 93 93 90 88 86 84 80 77 73 70 66 62 58 54 50 46 43 39 37 34 31 29 94 96 94 98 98 90 88 85 83 80 77 73 70 66 62 59 55 52 47 44 4 38 35 32 .28 .26 .24 96 93 92 91 89 88 84 82 79 76 73 70 67 63 60 55 52 49 45 43 39 37 34 31 30 28 34 93 ,93 ,92 ,91 ,89 ,87 ,84 ,87 ,79 ,76 ,73 ,70 ,67 ,63 /60 ,56 ,53 ,50 ,46 ,43 ,41 ,37 ,36 ,33 ,31 \$6 ,93 ,91 ,89 ,88 ,85 ,83 ,8 ,79 ,77 ,73 ,70 ,67 ,63 ,61 ,57 ,53 ,51 ,47 ,45 ,42 ,39 ,37 ,35 اله 43، 46، 49، 52، 54، 54، 64، 67، 70، 70، 71، 79، 48، 54، 54، 58، 54، 54، 41، 54 93 ,92 ,91 ,89 ,87 ,85 ,82 ,81 ,78 ,76 ,73 ,70 ,68 ,65 ,61 ,59 ,55 ,53 ,50 ,47 92 91 90 88 87 85 82 81 78 76 74 71 68 65 62 60 57 54 92 ,91 ,89 ,87 ,86 ,85 ,82 ,81 ,78 ,76 ,74 ,70 ,68 ,66 ,63 90 ,90 ,91 ,90 ,86 ,85 ,82 ,81 ,79 ,76 ,74 91 ,91 , 1, 36 ,86 ,84 ,83 91 93 . 95 87 17

Figure A8.4.3 Wave Diffraction at the Stage of ISP (N)

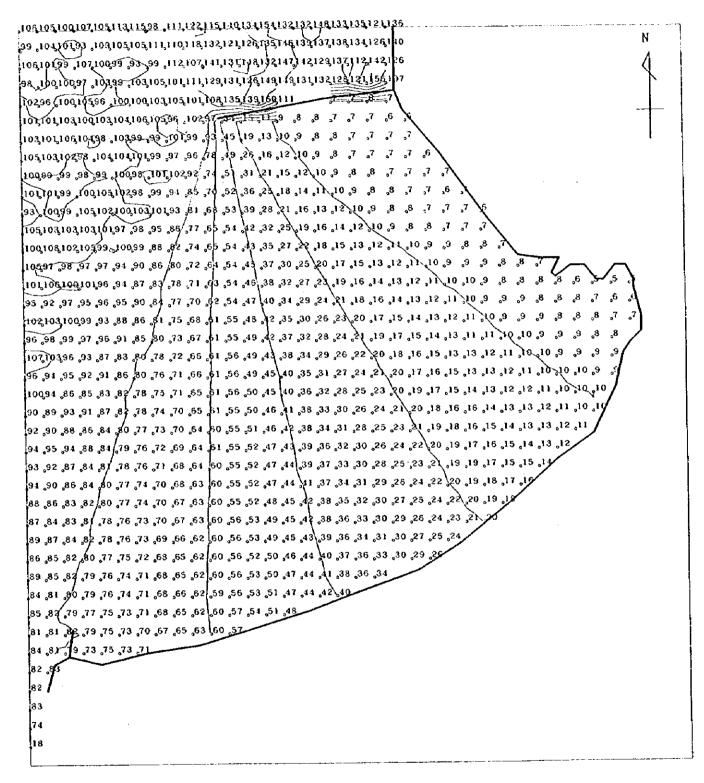


Figure A8.4.4 Wave Diffraction at the Stage of ISP (NNE)

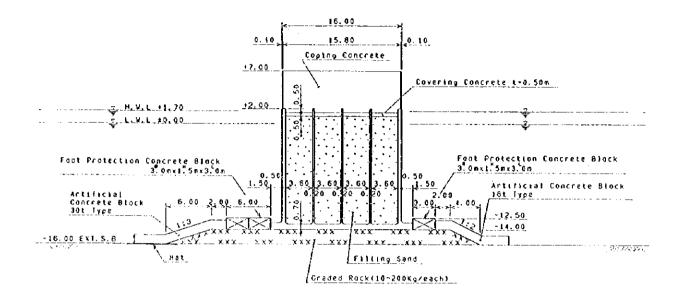


Figure A9.5.1(1) Typical Cross Section of Breakwater 1 (RC Caisson)

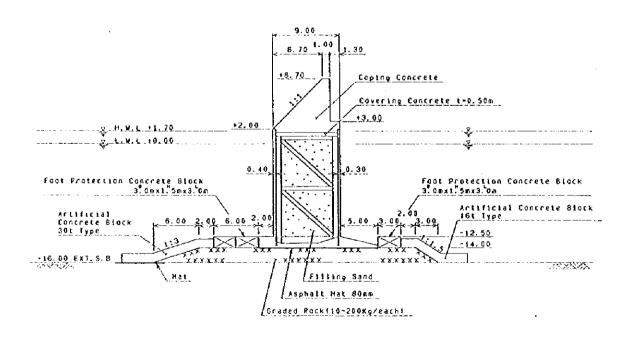


Figure A9.5.1(2) Typical Cross Section of Breakwater 1 (Hybrid Caisson)

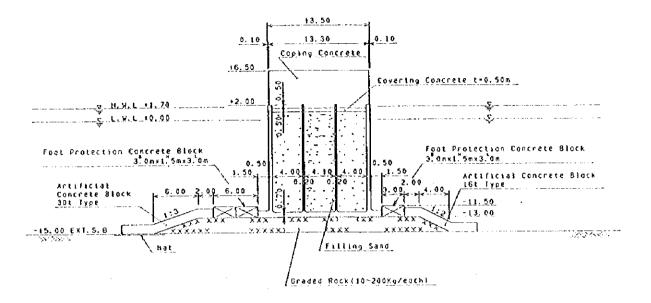


Figure A9.5.1(3) Typical Cross Section of Breakwater 2 (RC Caisson)

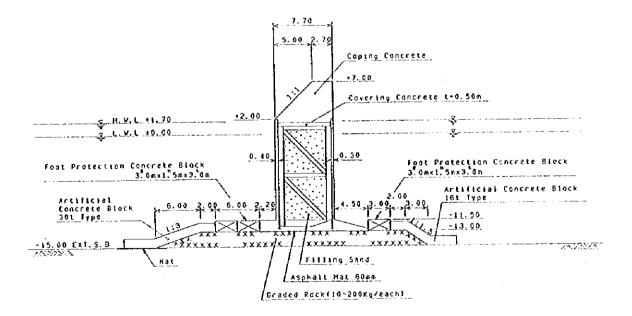


Figure A9.5.1(4) Typical Cross Section of Breakwater 2 (Hybrid Caisson)

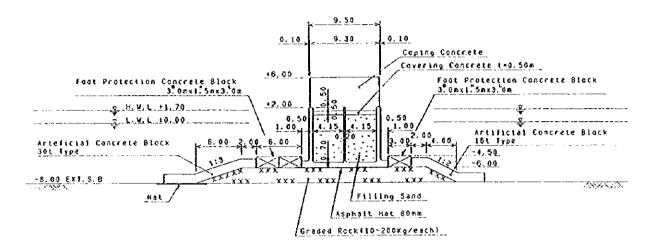


Figure A9.5.1(5) Typical Cross Section of Breakwater 4 (RC Caisson)

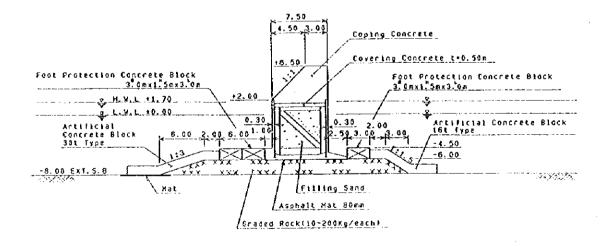


Figure A9.5.1(6) Typical Cross Section of Breakwater 4 (Hybrid Caisson)

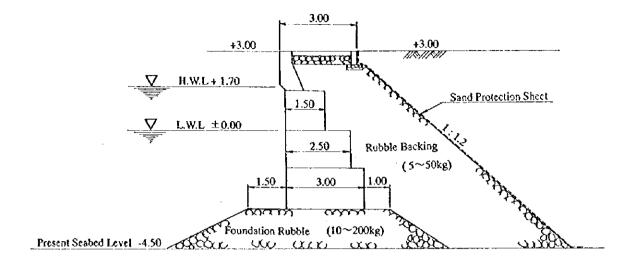


Figure A9.5.2 Typical Cross Section of Revetment (Concrete Block)

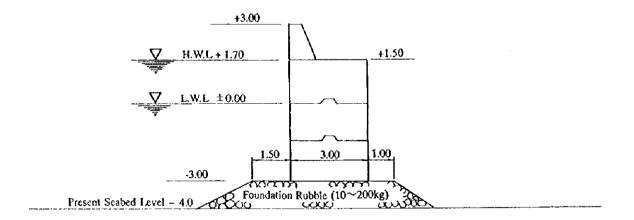


Figure A9.5.3 Typical Cross Section of Inner Breakwater (Concrete Block)

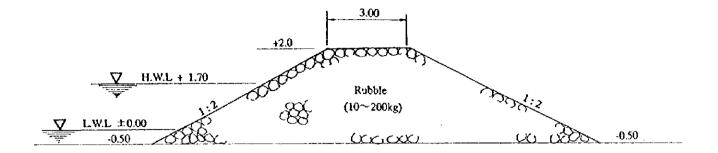


Figure A9.5.4 Typical Cross Section of Training Wall (Rubble Mound)

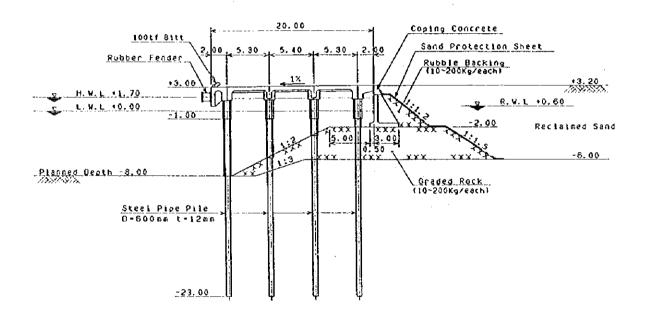


Figure A9.5.5(1) Typical Cross Section of Quaywall E1,E2(Open Pier with Retaining Wall)

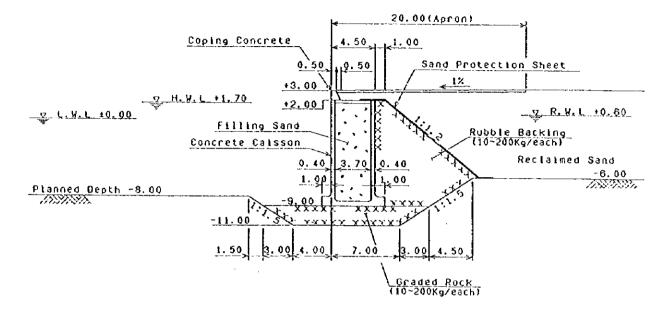


Figure A9.5.5(2) Typical Cross Section of Quaywall E1,E2 (RC Caisson)

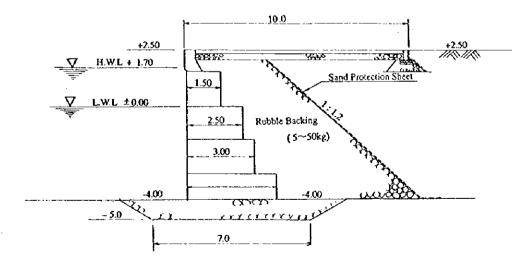


Figure A9.5.5(3) Typical Cross Section of Quaywall (Concrete Block)

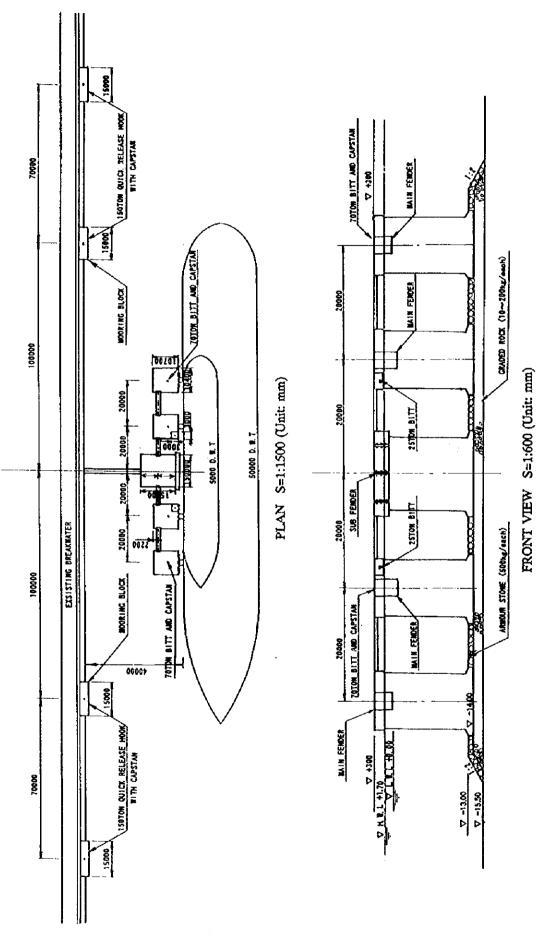


Figure A9.5.6(1) Typical Cross Section of Dolphin D4 (RC Caisson)

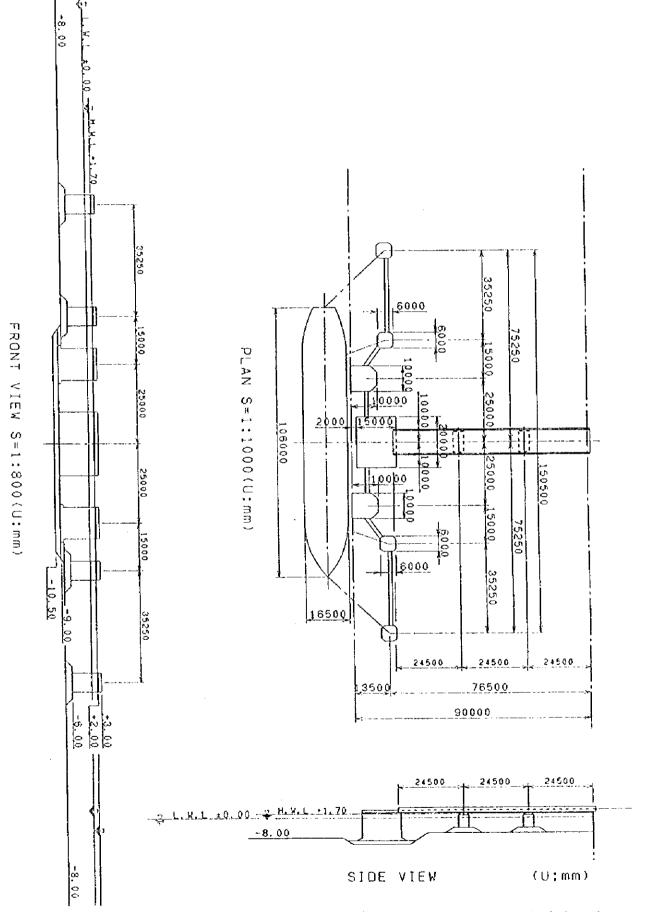


Figure A9.5.6(2) Typical Cross Section of Dolphin D1, D2, E3, E4 (RC Caisson)

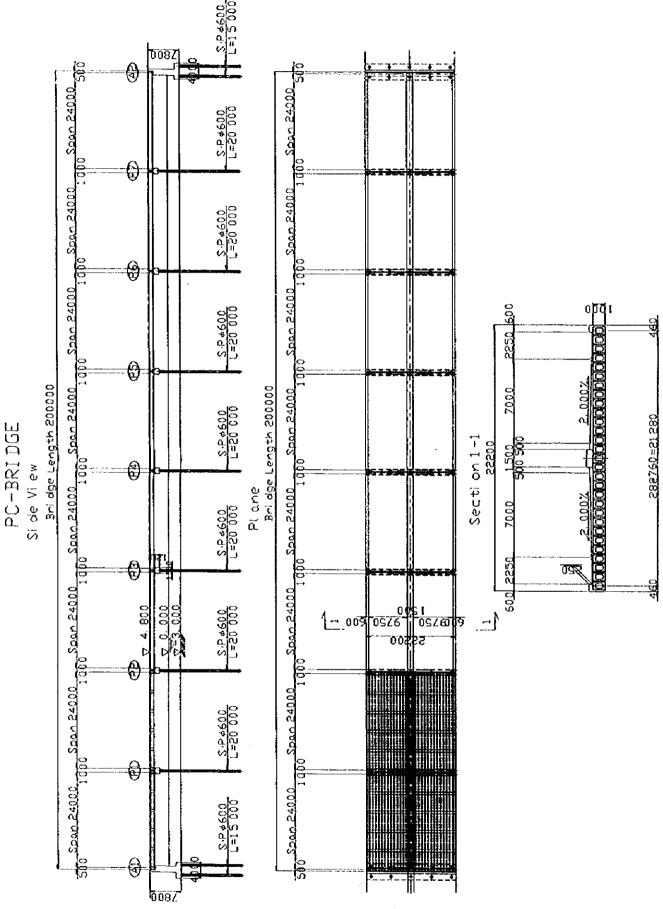


Figure A9.5.7 Typical Cross Section of Bridge (PC Girder)

1				<u>P</u>	ort User C	harges	(Sea ron)		· ·				
international or	Domestic (Unit: VND)						Export/Import (Unit: USD)						
Domestic	~ <u></u>	1 1000		(L	From January 1, 1998								
Effective	From May				7:00 - 17:00								
Working Time	7:00 - 17: 5:00 - 7:0				5:00 - 7:00 = *1.20								
Overtime Work					17:00 - 22:00 = *1.20								
17.00 - 22.00 = *1.20 22.00 - 05.00 = *1.40						22:00 - 05:00 = *1.40							
·	Holidays	& Sundays (1	ncluding night	<u>) = *1.50</u>	Holidays & Sundays (Including night) = *1.50								
. Berthage and													
Wharfage dues													
1) On Vessels	240/GRT	U.			0.0035/GRT/hour								
1) Berth	120/GRT				0.0012/GRT/hour								
2) Buoy	100 0000	Varial day	ar Sea Goine	Versell									
3) Minimum	100,000/Vessel day (For Sea Going Vessel)							At Quay 0.30/ton					
(2) On Cargoes	At Quay 1,000/ion At Buoy 500/ion					At Buoy 0.15/ton							
2. Cargo							(unit: USD/ton)						
Handling				(unit: VND/tor	1)			(		•)			
services					·		Ship~Truck		Ship~Warel	0185			
(1) Handling	Ship ~Wa			Ship~Truck					Storage area				
at Berth		Storage a		Barge		Corre	Barge Ship	Port's	Ship	Port's			
	Cargo	Port's	Ship	Port's	Ship	Cargo		Crane	Crane	Crane			
	Group	Crane	Crane	Crane	Crane	Group	Crane		2.90	Citaio			
	1	12,070	9,260	9,200	6,070		2.00		3.66				
	2	16,270	11,470	12,630	7,830	2	2		4.74				
	3	22,840	15,080	16,510	11,710	3	3.56			_ <u> </u>			
	4	24,900	16,260	19,660	11,980	4	3.86		5.14				
	5	27,720	20,040	23,300	15,620	5	4.06		5.41				
	6	28,270	20,950	23,640	15,960	6	4.36	_	5.81				
	7	32,540	24,870	26,970	19,110	7	4.60		6.13				
	8	47,320	37,720	34,500	22,980	8	4.85		6.46				
							40/unit		S0/unit				
							55/unit		70/unit	Ì			
							1	_	25/unit				
(2) Handling	Cargo	Group	Loading/Unloading at Buoy			Ca	rgo Group	Loa	Loading/Unloading at Buoy				
at Buoy		7	7,110				1		2.30				
		2	8,950				2		3.08				
		3	12,980				3		4.13				
		4	13,260				4	_	4.52				
		5	16,240			_	5		4.78				
		6	17,900				6		5.17				
		7	19,880			7			5.49				
		8	24,700			8			5.81				
							9 45/unit 55/unit						
	1												
(3) Warehouse	Cargo Group Warehouse, Strage ~ Truck					C	argo Group		Warehouse, Storage ~ Truck				
Strage Area		1	4,070			1			0.73				
~ Truck, Frailer		2		4,590	2			0.90					
		3	5,280			3			1.27				
	· · · · · · · · · · · · · · · · · · ·	4	6,200			4			1.32				
	<b> </b>	5		6,340	5			1.47					
		6	6,910				6		1.60				
	1	7	8,630			7 1.69							
	<b></b>	8		17,620			8		1.79				
						9 30/unit							
							2	35/00					

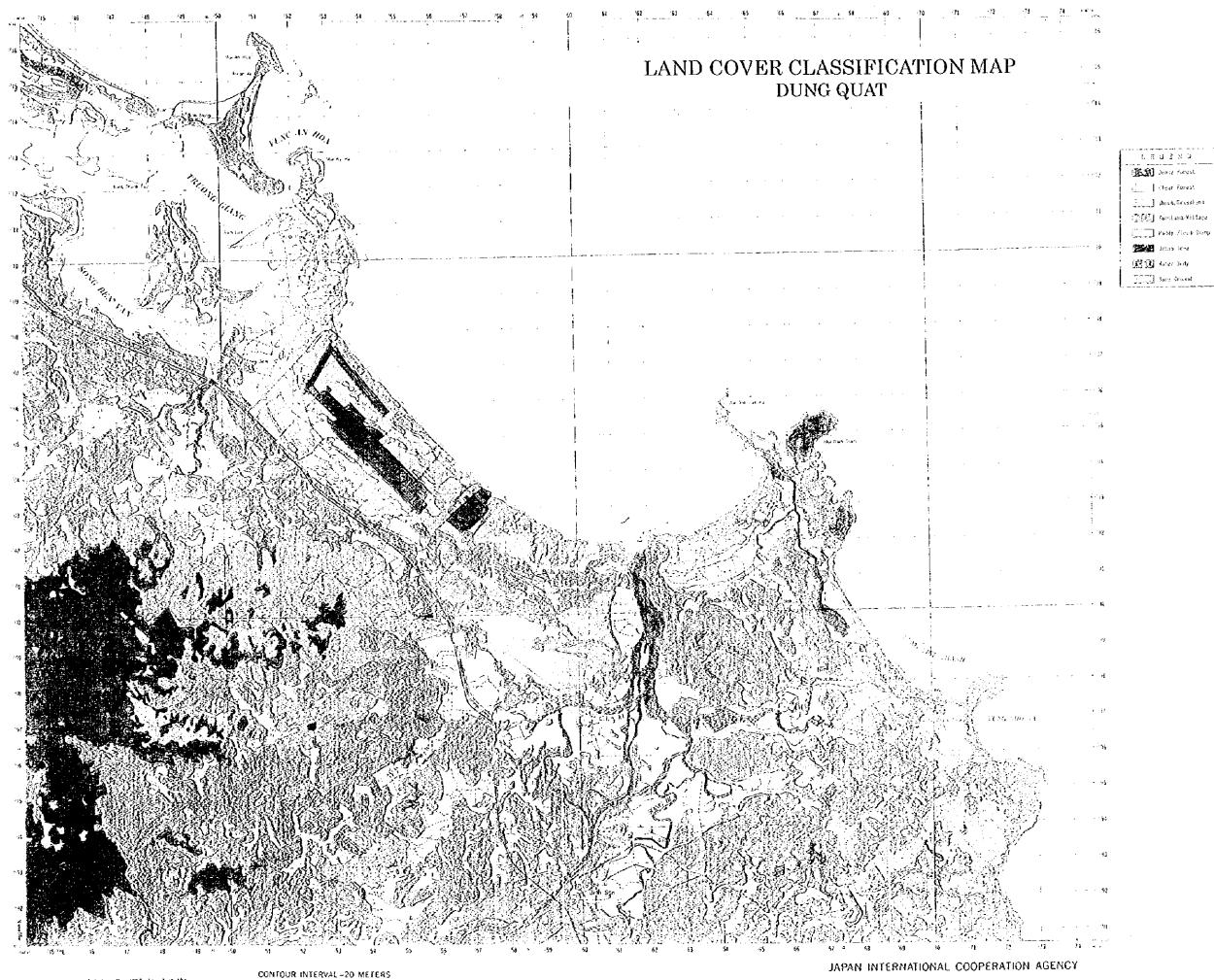
Table A13.1.1 Port Dues and Charges Tariff

(4) For	20 feet: Empty 42,000/unit (Cargo Group 4) Min. 100,000/unit (Cargo Group 4) 40 feet: Empty 80,000/unit (Cargo Group 4)							(onit: UD\$/UNIT)						
Container								ship~auck		ship yard, warehouse		yard, warehous ~truck		
	Mi	n. 1.	70,000/uni	t (Cargo C	iroup 8)		20							
							fect full	26						
					empty			50 30			-			
								10					12	
					full	40		76		<u> </u>	31			
			·		empty	23		44		18				
3. Storing	1) 1 - 30 da	ys.										<b>-</b>		
Charges	General			800/1/d			in warehouse			0.2/ton/d				
					Vild	in open storage				0.1/ton/d				
	Fertilizer, chemical, Cement				600/1/4			assembled facilities			4.0/pc/d			
	in storage a	rea			Vild		container (unit/d)				full		empty	
								<u>20'</u> 40'					1.0	
					40' Reef 20'			~			1.5			
						Reef 40'					1.1/h			
4. Other Fees		· · · ·				· - · · · · · · · · · · · · · · · · · ·			Keel 4	0	400	ay	1.6/h	
(1) Tug Assistant	- Tug assistance fees							sistance fea						
Service Fees	<500HP			P 2.5	2,500HP/h						/HP/hour			
		500HP <1,000									+0.26HP)/h			
	(	1,00	0HP <	1,50	1,500HP/h						+0.15HP)/h			
								1,500HP<			+0.05H			
(2) Mooring	At Ber		enh		Виоу			At Buoy		At Berth				
Unmeeting			mooring	unmo,	mooring	wumo.	< 1,00		50/time	<u>د</u>		17/time		
	< 2,0		60,000	50,000	110,000	70,000	1,001 <		80			33		
	2,000<4,00			60,000	140,000	100,000						50		
	4,000<6,00		85,000	<u>75,000</u> 140,000	160,000	130,000	10,001<		132			66		
(3) Tallying	6,000< Bulk cargo				170,000	165,000			149 83			· a		
(1) Failying	General cargo : 1,500/ton							General and Bulk Cargo : 0.35/ton Container : 1/unit						
	Cars and Container : 10,000/unit							U1	: 1	/0101				
(4) Others	At Quay				At Buoy		+	Att		At Quay A		At Buoy		
	1)Dumping service 200,000						1)Dump service	)Dumping				50/vessel		
	2)Supplying	r 15.00	043	22,000		ying water	2.5/m	2		3.5/m <sup>3</sup>				

		Port Entry Dues	(SEAPORT)				
INTERNATIONAL or DOMESTIC		DOMESTIC (UNIT: VND)	EXPORT/IMPORT (UNIT: USD)				
Effective		from January 1, 1998	from January 1, 1998				
(1) Tonnage Dues	1) Entrance	200/GRT	0.10/GRT				
	2) Exit	200/GRT	0.10/GRT				
(2) Navigational Maintenance Dues		1) Entrance - < 2,000GRT: 200/GRT - 2,000GRT<: 400/GRT 2) Exit - < 2,000GRT: 200GRT - 2,000 GRT<: 400GRT	- Conventional Vescel Entrance 0 209/GRT Leaving 0 209/GRT				
(3) Clearance Fees	Entrance & Exit	<200GRT : 30,000 200 - 1,000GRT : 50,000 1,000 - 5,000 : 100,000 5,000GRT : 200,000	< 600 GRT = 20/rip 600 < 1,000 GRT = 50/rip 1,000 GRT = 100/rip				
(4) Pilotage Dues	Entrance	15/GRT/sea mile	0.0032/GRT/sea mile				
	Exit	15/GRT/sea mile	0.0032/GRT/sca mile				
	Minimum	Ent, Exit : 150,000 Intra - port: 100,000	100/vessel				

Source: Danang Port

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Thus usp was interpretation table lated on Nay 1997, based on the ection 30% FM \$278-1010

DUPPLEMENTARY CONTURNES IS THEFT. SPHEROID SRIG LOUD AFTERUTH LONE 19 PROJECTION VERTICAL DATUM ....EVEREST TRANSVERSE MERCATOR MEAN JEA LEVEL AT MATIEN наазы a second a second a second a second a second a second a second a second a second a second a second a second a s

JAPAN INTERNATIONAL COOPERATION AGENCY Overseas Coastal Area Developmental Institute of Japan (May, 1997) Japan Port Consultants, Ltd

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