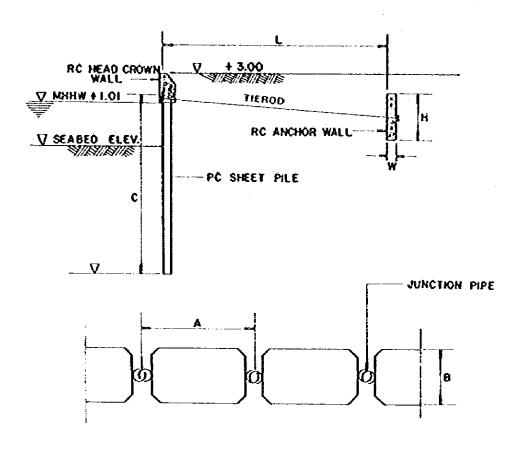
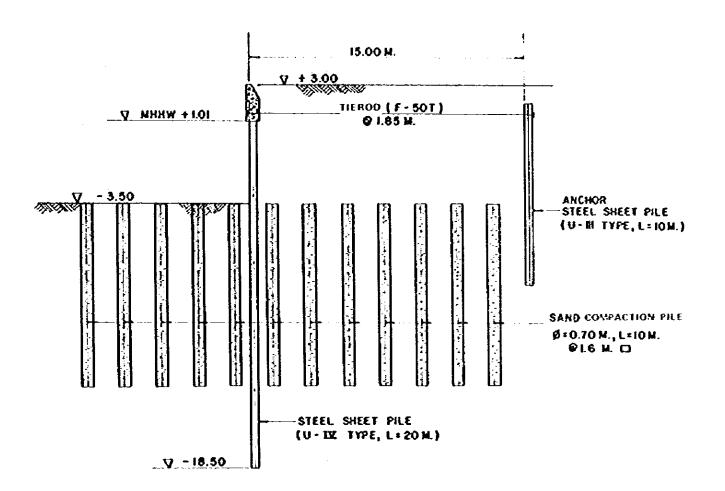
Appendix I-130
Fig. IV-6-21 TYPICAL SECTION OF PC SHEET PILING (TYPE VI, VII)



	SEABEO						SIZE &	OIMENS	ONS				
TYPE		PC SH	EET P	LES(H)	JUNCTI	ON PIPE	ES (M.)		TIEROD		RC AL	NCHOR	RC HEAD
	(18.)	A	8	С	CONTRIER	necess	LENOTH	TENSONSY FORCE (F)	LENSHT	SPACING	W	н	CROWN WALL
VI	± 0.00	0.60	0.30	10	0.080	300.Ó	4	30 T	12 M.	1.80	0.40	2.50	
VII	- 1.00	0.60	0.35	12	0.080	0.006	5	50 T	14 M.	1.80	0.40	2.50	

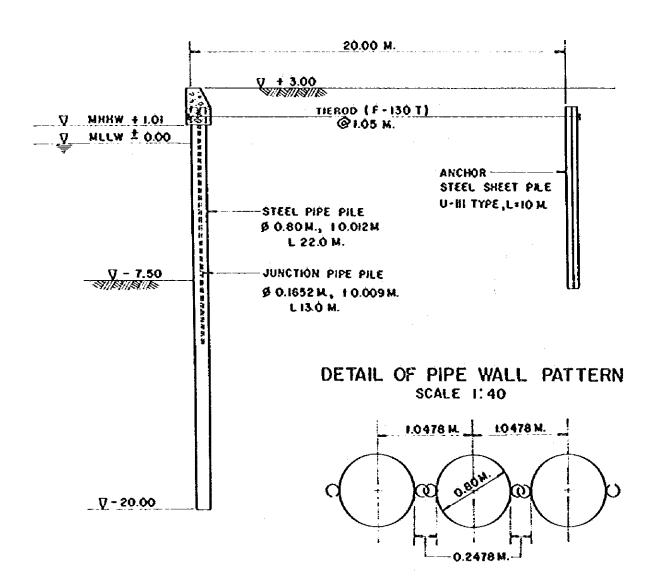
	SEABED			MAUQ	ITITES per	LM (Wall Leng	ih)
TYPE	(H)	(N.)	P. C. (per.)	JUNCTION PIPE (T)	TIEROD (pcs.)	RC ANCHOR WALL (cu.m.)	RC HEAD CROWN WALL (cv. m.)
VI	± 0.00	4245	1.66	0.076	0.555	1.0	1.70
Vil	- 1.00	1090	1.66	0.095	0.555	1.0	1.70

Appendix 1-131
Fig. IV-6-22 TYPICAL SECTION OF STEEL SHEET PH.E (TYPE VIII)



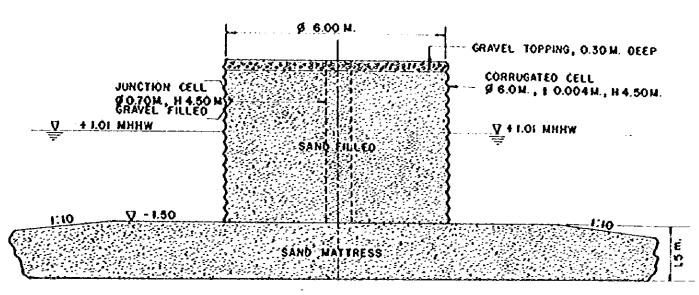
	SEA8E0		QUANTITIES PE				
TYPE	ELEY.	STEEL SHEET PLE	ANCHOR STEEL SHEET FILE (U-11 TYPE) (T)	TIEROD (F-130T)	SANO	PILE	HEAD CROWN
	(M.)	(U-IX TYPE)(T)	(U-II TYPE) (T)	(pcs.)	SAND (CV. M.)	(pcs.)	WALL (cv. m)
Vill	- 3.5	3.805	1.5	0.54	38.5	10	L7

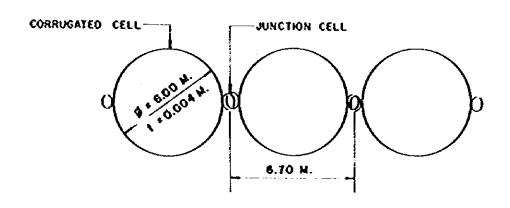
Appendix I-132
Fig. IV-6-23 TYPICAL SECTION OF INTERLOCKED STEEL PILE (TYPE IX)



	SEABEO		QUANTITIES	PER LM (Wall Les	egth)	- *
TYPE	ELEV.	STEEL PIPE PILE (†)	JUNCTION PIPE PILE (T)	TIEROD (F-130T)	ANCHOR STEEL SHEET PILE (T)	HEAD CROWN WALL (cu m.)
ΙX	- 7.5	4.90	0.86	0.95	0.5	2.50

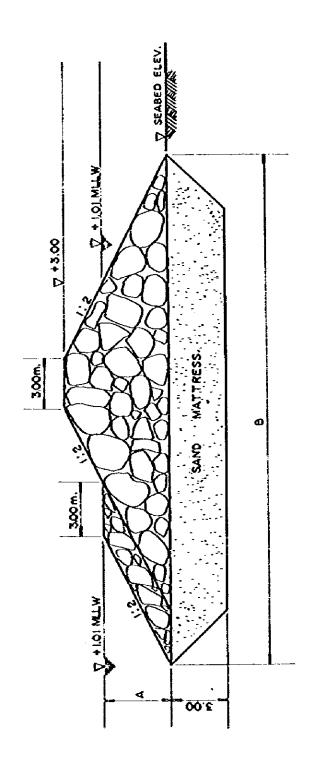
Appendix I-133
Fig. IV-6-24 TYPICAL SECTION OF CORRUGATED CELL (TYPE X)





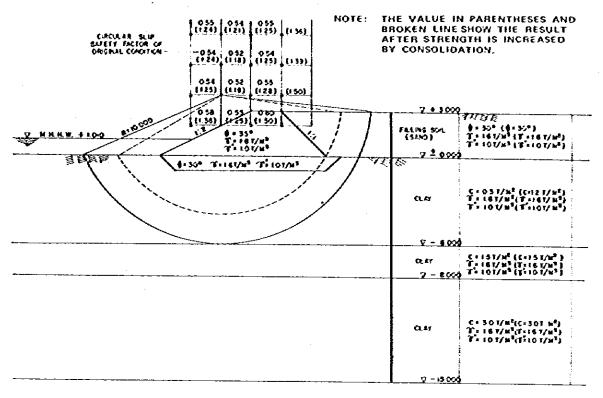
DESCRIPTION & SIZE (M)	QUANTITY/pc.	QUANTITY/L.M.(wall feng)
CORRUGATEO CELL # # 6.00 M. # # 0.00 4 M. H # 4.60 M.	3.81 1on	Q.568 Ien
JUNCTION CELL 0 = 0.70 M. 1 = 0.004 M. N = 4.50 M.	1.189 fon	0.177 fon
FILLING SANO	127 cv.m.	19 cv.m.
SANOMATTRESS		40.5 cu.m.
FILLING GRAVEL for JUNCTION PIPE		0.132 cv.m.

Appendix 1-134 Fig. IV-6-25 TYPICAL SECTION OF BREAKWATER STRUCTURE (TYPE XI, XIII, XIII)

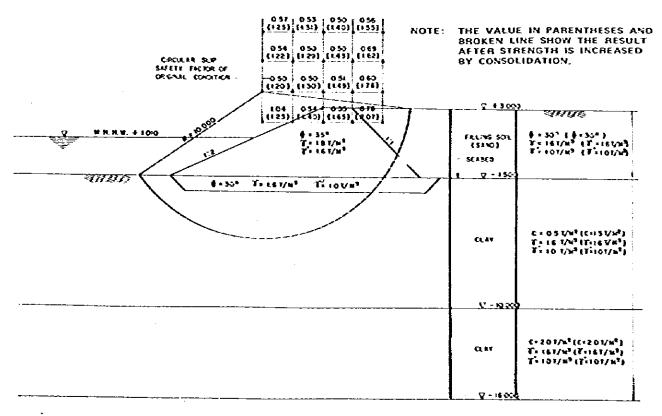


1	SEA BED ELEV. SIZE OF BREAKWATER	SIZE OF	BREAKWATER		QUANTITY PER LM
TYPE	(DATUM MILW)	4	ø	ROCK (cu.m.)	ROCK (cu.m.) SANDMAT(cu.m)
×	- 2,8	3.5	28	95.75	78
×	00.8 -	0.4	o n	111	- - 8
×	- 3.50	4. U.	32	127,25	5.5

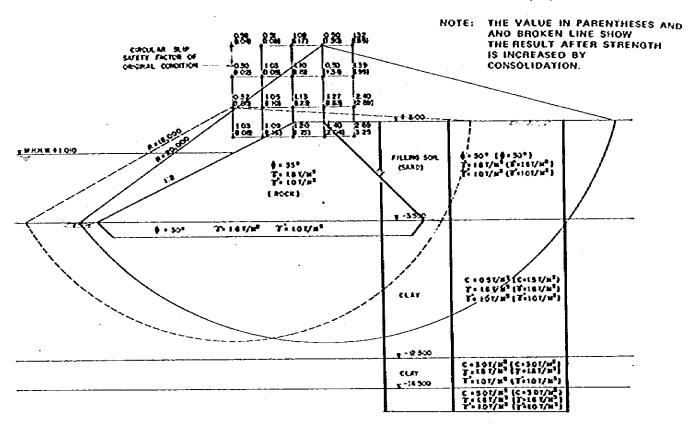
Appendix I-135 Fig. IV-6-26 STABILITY ANALYSIS OF ROCK BULKHEAD (I)



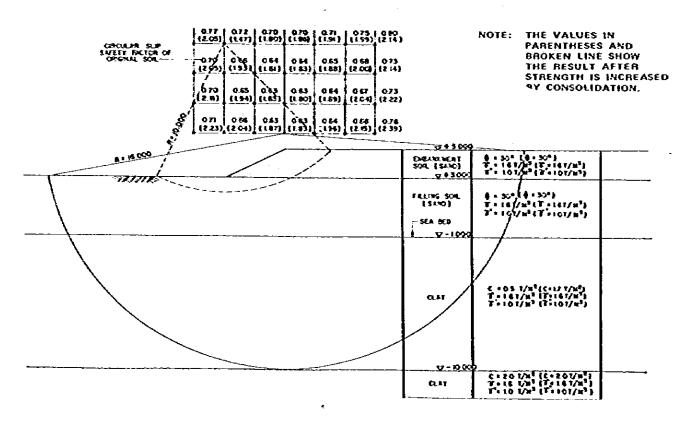
Appendix I-136
Fig. IV-6-27 STABILITY ANALYSIS OF ROCK RULKHEAD (II)



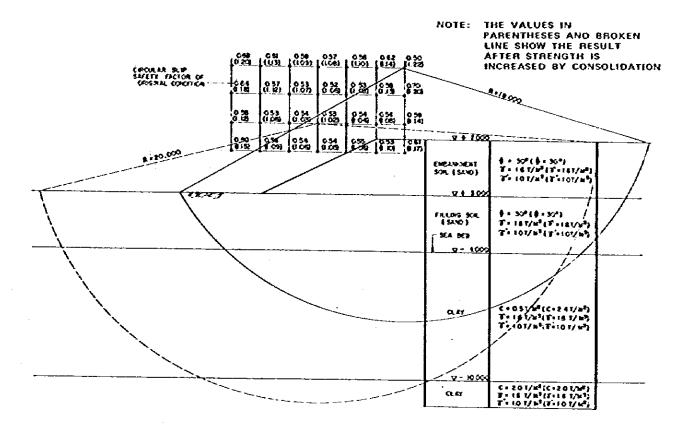
Appendix 1-137
Fig. IV-6-28 STABILITY ANALYSIS OF ROCK BULKHEAD (III)



Appendix I-138
Fig. IV-6-29 STABILITY ANALYSIS OF EMBANKMENT (I)



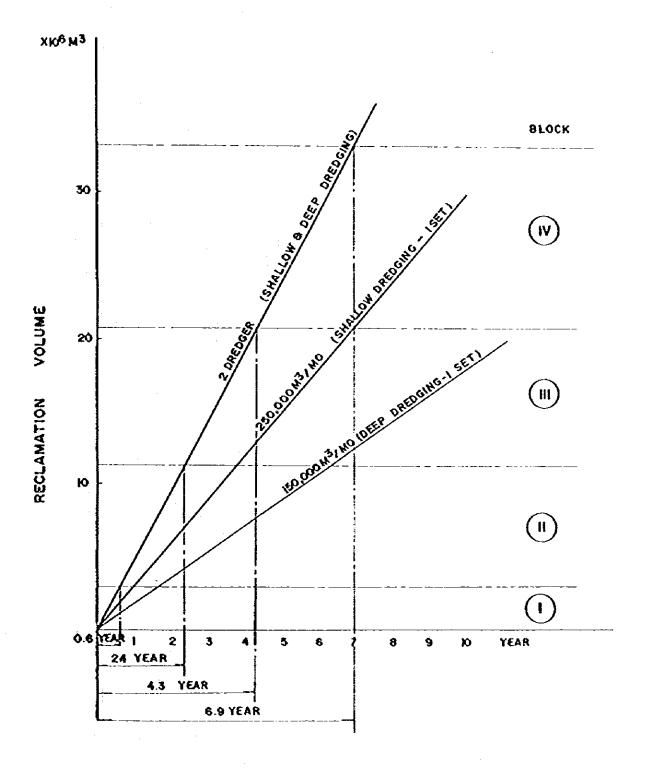
Appendix I-139
Fig. IV-6-30 STABILITY ANALYSIS OF EMBANKMENT (II)



Appendix I-140
Table IV-6-1 EQUIPMENT QUANTITY AND TIME SCHEDULE

Block	Déscription	Quantity	Average Monthly Achievement	Equipment Needed	Required Period (Mo.)
1	Filling	2,960,000 cu.m	200,000 cu.m/outfit	3 dredging outfit	4.90
	Rock Mound	193,000 cu.m	12,000 cu.m/outfit	3 rock mount outfit	5.36
	Sand pile (\$400)	120,000 l.m	5,000 Lm/outfit	5 driving outfit	4.80
:	Sand pile (\$700)	110,0001.m	3,000 1.m/outfit	6 driving outfit	6.11
	Sheet pile (steel)	82,000 l.m	2,000 1.m/outfit	S driving outfit	8.20
11	Filling	8,635,000 cu.m	200,000 cu.m/outfit	3 dredging outfit	14.4
	Rock mound	298,000 cu.m	12,000 cu.m/outlit	3 rock mound outfit	8.3
	Corrugated Cell	150 set	40 set/outfit	l installation outfit	3.75
	Sand pile (\$400)	195,000 l.m	5,000 l.m/outfit	5 driving outfit	7.80
Ш	Filling	9,155,000 cu.m	200,000 cv.m/outfit	3 dredging outfit	15.26
	Rock mound	139,000 си.т	12,000 cv.m/outfit	3 rock mound outfit	3.86
	Sand pile (\$400)	100,0001m	3,000 l.m/outfit	S driving outlit	6.66
	Sand pile (\$700)	100,000 l.m	2,000 1.m/outfit	6 driving outfit	8.33
	Sheet pile (steel)	75,000 J.m	2,000 1.m/outfit	5 driving outfit	7.50
	Sheet pile (P.C.)	20,000 l.m	2,000 l.m/outfit	3 driving outfit	3.33
ĮV	Filling	12,545,000 сч.т	200,000 cv.m/outfit	3 dredging outfit	21.00
	Rock Mound	47,000 cu.m	12,000 cu.m/outfit	2 rock mound outfit	1.96
	Sheet pile (P.C.)	81,000 J.m	2,000 1.m/outfit	3 driving outfit	13.50
	Sheet pipe pile	26,000 l.m	1,500 l.m/outfit	3 driving outfit	5,77
	Sheet pile (steel)	30,000 Lm	2,000 1.m/outfit	3 driving outfit	5.00
v	Rock Mound	171,000 се.т	12,000 cu.m/outfit	3 rock mound outfit	4.75
VI	Rock Mound	172,000 сэ.т	12,000 cu.m/outfit	3 rock mound outfit	4.778
VII	Rock Mound	211,000 ເບ.ເກ	12,000 cu.m/outfit	3 rock mound outfit	5.86

Appendix I-141 Fig. IV-6-31 RATE OF RECLAMATION FOR MBCRP



Appendix I-142
Table IV-8-1
COST OF RECLAMATION (A)

- Alternative 1 -

		ET.	Block - I					Block - II		
Descriptions	.000 m	For C	LocC	Tuxes	Total	-m 000,	For C	LocC	Taxes	Total
Residential					i					
Lots	354.2	43,723	30,031	10,390	84,144					
Service Road	112.8	11,482	5.976	2,653	20,111		·-			
Total	467.0	\$5,20\$	36,007	13,043	104,255					
Industry										
Lots						1,447.0	139,184	65,188	33,255	237,627
Service Road						84.0	10,097	5,242	2,575	17,914
Total						1,531.0	149,281	20,430	35,820	255,541
Park, etc.	1,001.0	75,205	150,72	15,149	117,405					
Arterial Street	84.0 (98.0)	10,120	5,981	2,469	18.570	200.0	24,652	13,080	6,329	44,061
Sub-total	1,650	140,530	66,039	30,661	240,230	1.850.0	173,933	83,510	42,159	299,602
Profit and Overhead (25%)	25%	35,133	17,260	7,665	850.09	25%	43,483	20,878	10,540	74,901
Sub-total		175,663	86,299	38,326	300,288		217,416	104,388	\$2,699	374,503
Detailed Design and Supervision (10%)	%01	17,566	8,630	3,833	30,029		21,741	10,439	5,270	37,450
Fishery Compensation			000's		000's			5,000	-	5.000
Physical Contingency (10%)	10%	19,323	6,993	4,216	33,532		23,916	11,983	5,796	41,605
Grand Total		212.552	109.022	46.375	368.849		263.073	131,810	63,765	458,648

Note: 1) The figure in () indicate the area allocated for R-10 extension, not covered in this cost estimate.

COST OF RECLAMATION (B) Appendix I-143 Table IV-8-2

- Alternative 1 -

(2000 in 1979 Prices)

		Blc	Block - III				8	Block - IV		
Descriptions	2m 000.	For C	LocC	Taxes	Total	-m 000.	For C	Loc C	Taxes	Total
Roxidential										
Lots										
Service Road		-								
Total										
Industry										
Lots	1,356.4	139,955	980,99	31,598	237,639	2,266.0	212,045	101.398	48,191	361,634
Service Road	93.6	11,490	5,687	2,781	19,958	144.0	16,713	8,674	4,106	29,493
Total	1,450.0	151,445	71,773	34,379	782,597	2,410.0	228,758	110,072	\$2,297	391,127
Park, etc.	344,1	30,845	9,782	6,605	47,232	346.3	28,721	9,663	6,237	44,621
Arterial Street	220.1 (135.8) ¹⁾	27,716	14,058	6,764	48,538	359.3 (134.4)	43,108	23,079	10,715	76,902
Sub-total	2,150.0	210,006	65,613	47,748	353,367	3,250	300,587	142,814	69,249	\$12,650
Profit and Overhead	25%	\$2,502	23,903	11,937	88,342	25%	75,147	35,704	17,312	128,163
Sub-total		262,508	119,516	\$89,68	441,709		375,734	178,518	86,561	640,813
Detailed Design and Supervision (10%)	10%	182,82	11,952	696'\$	44,171		37,573	17,852	8,656	64,081
Fishery Compensation	The state of the s		5,000		5,000					
Physical Contingency (10%)	10%	28,876	13,647	6,565	49,088		41,331	19,637	9,522	70,480
Grand Total		317,635	150,115	72,218	896'685		454,538	216,107	104,938	775,383

Note: 1) The figure in () indigate the area allocated for R-10 extension, not covered in this cost estimate.

Appendix 1-144
Table IV-8-3 COST OF RECLAMATION (A)

- Alternative II -

(2'000 in 1979 Prices)

		æ	Block - I					Block [[
Descriptions	_ w 000.	For C	LocC	Taxes	Total	,000 m	For C	LocC	Taxes	Total
Residential Lots	354.2	43,723	30,031	10,390	84,144					
Service Road Total	112.8	11,482	36,007	13,043	104,255				~~ ~	
Industry								 - 	-	
Lots						1,287.4	124,582	60,133	29,875	214,590
Service Road						81.6	608'6	160'5	2,502	17,402
Total			-	_		1,360.0	134,391	65,224	32,377	231,992
Park, etc.	1,001.0	75,205	27,051	15,149	117,405	171.0	14,892	5,141	3,444	23,477
Arterial Street	84.0 (98.0	10,120	5,981	2,469	18,570	200.0	24,729	13,160	6,353	44,242
Sub-total	1,650	140,530	68'039	30,661	240,230	1,850.0	174,012	83,525	42,174	299,711
Profit and Overhead	25%	35,133	17,260	7,665	850,03	25%	43,503	188'02	10,544	74,928
Sub-total		175,663	86,299	38,326	300,288	•	217,515	104,406	\$2,718	374,637
Detailed Design and Supervision (10%)	10%	17,566	8,630	3,833	30,029	10%	21,752	10,441	5,272	37,465
Fishery Compensation			000'S		\$,000			000's		\$,000
Physical Contingency (10%)	10%	19,328	866'6	4,216	33,532		23,927	11,984	5,799	41,710
Grand Total		212,552	226'601	46,375	368,849		263,194	131,831	63,789	458,814

Note: 1) The figure in () indicate the area allocated for the causingway, not covered in this cost estimate. The portion of the cost for the causeway is included in the Road project cost in Part III.

Appendix I-145 Table IV-8-4 COST OF RECLAMATION (B)

- Alternative II -

(#'000 in 1979 Prices)

Vescipcions Residential		•								
Residential	.000 m ²	For C	LocC	Taxes	Total	5m 000°	For C	Loc C	Taxes	Total
Cots	160.2	20.872	15,147	960'\$	41,115	838.9	61,937	36,354	14,835	113,126
Service Road	46.1	5,388	2,538	1,285	9,211	155,7	17,141	8,463	4,135	29,739
Total	206.3	26,260	17.685	6,381	50,326	691,6	79.078	44,817	18,970	142,865
Industry	رد اس م دست میه نیزورو چیز سیوست			THE R. P. LEWIS CO., LANSING S. LANSING S. LANSING.						
Lots	620.4	66,106	33,390	15,087	114,583	9.88.8	92,405	47.841	21,259	161.505
Service Road	39.6	4,861	2,406	1,177	8,444	61.2	7,087	3,666	1,735	12,488
Total	660.0	70,967	38,796	16,264	123,027	1,010,0	99,492	\$1,507	22,994	173,993
Park, etc.		79,213	25,121	16,964	121,298	1.077.6	89,373	30,067	19,408	138,848
Arterial Street	264,2 (135,8) 1	33.379	16,981	8,154	58.514	336.4 (134.4)	42,759	23,941	10,789	77,489
Sub-total	2,150.0	209,819	95.583	47,763	353,165	3,250.0	310,702	180,332	72,161	\$33,195
Profit and Overhead	25%	52,455	23.896	11,941	88,292	28%	77,676	37,583	18,040	133,299
Sub-total		262,274	119,479	59,704	441,457		388,378	187,915	90,201	666,494
Detailed Design and Supervision (10%)	01	26,227	11,948	5,970	44,145		38,838	18,792	9,020	059'99
Fishery Compensation		=	8,000		8,000					
Physical Continuency (10%)	10%	28,850	13,642	6,567	49,059		42,722	20,670	526'6	73,314
Grand Total		317,351	690'0\$1	72,241	539,661		850,034	227,377	109,143	806,458

Note: 1) The figure in () indiente the area allocated for R-10 extension, not covered in this cost estimate.

Appendix I-146
Table IV-8-5 COST OF RECLAMATION (A)

- Alternative III -

(#1000 in 1979 Prices)

			Block I					Block II		
Descriptions	2 m 000°	For C	Loc C	Taxes	Total	5m 000.	For C	Loc C	Taxes	Total
Residential										
Lots L	354.2	43,723	30,031	10,390	84,144					
Service Road	112,8	11,482	5,976	2,653	20,111					
Total	467,0	\$5,205	36,007	13,043	104,255					
Industry			The same of the branch is the same of the	And a summan and the property of the state o						
Lots						1,433.8	137,956	64,778	32,972	235,706
Service Road						97.2	11,685	6,065	2,979	20,729
Total						1,531.0	149,641	70,843	35,951	256,435
Park, etc.	1,001.0	75,205	27,051	15,149	117,405					
Arterial Street	84.0 (98.2) 1)	10,120	5,981	2,469	18,570	200.0 (119.0)	24,233	12,652	6,172	43,057
Sub-total	1,650	140,530	65,039	30,661	240,230	1,850.0	173,874	83,495	42,123	299,492
Profit and Overhead	25%	35,133	17,260	7,665	850,09	25%	43,469	20,874	10,531	74,873
Sub-total		175,663	86,299	78,326	300,288		217,343	104,369	52,654	374,365
Detailed Design and Supervision (10%)	10%	17,567	8,630	3,833	30,029	10%	21,734	10,437	5,265	37,437
Fishery Compensation			5,000	:	000's	:		\$,000		5,000
Physical Contingency (10%)	%01	19,323	9,993	4,216	33,532		23,908	11,981	5,792	41,690
Grand Total		212,553	109,922	46,375	368,849		262,985	131,787	63,711	458,482

Note: 1) The figure in () indicate the area allocated for R-10 extension, not covered in this cost estimate.

Appendix I-147 Table IV-8-6 COST O

COST OF RECLAMATION (B)
- Alternative III -

(#'000 in 1979 Prices)

			Block - III					Block -IV		
Descriptions	.000 m ²	For C	LocC	Taxes	Total	2m 000.	For C	2002	Taxes	Total
Residontial										
Lots						369.6	44,762	27.569	10,836	83,167
Service Road			V. 2			103.2	11,359	5,607	2,740	19,706
Total						472.8	\$6,121	33,176	13,576	102,873
Industry		The state of the s				manuari estro do os lestos cimi				
Lots	1,222,0	127.821	62,252	100,62	219,074	1,191.2	117,442	58.737	23,712	199,891
Service Road	78.0	9,575	4,739	2,318	16,632	118.8	13,795	7,156	3,381	24,332
Tota)	1,300.0	137,396	166'99	31,319	235,706	1,310,0	131,237	68,893	27,093	224.223
Park, etc.	494,1	44,290	14,046	9,484	67,820	976.0	80,946	27,233	17,578	125,757
Arterial Street	220,1 (135,8)	28,233	14.562	6,927	49,723	356.8 (134.4)	39,275	19,441	9,510	68,226
Sub-total	2,150.0	209,919	088'86	47,730	853,249	3,250.0	307,579	145,743	67,757	\$21,079
Profit and Overhead	25%	\$2,480	23,900	11,933	88,312	25%	76,895	36,895	16,939	130,270
Sub-total		262,399	119,499	59,663	441,561		384,474	182,179	84,696	651,349
Detailed Design and Supervision (10%)	10%	26,240	086'11	5,966	44,156		38,447	18,218	8,470	05,135
Fishery Compensation		· — · · · ·	5,000		\$ 000		• - · · · · · · · · · · · · · · · · · ·	-		1
Physical Contingency (10%)	10%	2x,x64	13,645	6,563	49,072	†	42,292	20,040	9,317	71.644
Grand Total	· ·	317,503	150,094	72,192	830,789		465,213	220,437	102,483	788,133

Note: 1) The figure in () indicate the area allocated for R-10 extension, not covered in this cost estimate,

Appendix 1-148 PRICES OF OPEN LAND IN NAVOTAS, MALABON, CALOOCAN AND QUEZON 2) Table IV-9-1

			Unit: Pesos/m2
Land Use	Navotas & Matabon 1)	Caloocan	Quezon
Commercial Industrial Residential Fishpond & Rice Field Undeveloped land	140 - 250 80 - 140 90 - 140 65 - 80 20 - 35	150 1,850 40 700 120 750 780 780	500 - 2,500 50 - 760 180 - 1,800

Source: Real estate dealers in Quezon City.

Notes: 1) The coastal municipalities of Navotas, Obando and part of Malabon are presently considered isolated due to the shortage in roads and facilities, limited power supply, deep well sources of water and limited water supply network.

2) Even under the above conditions, the price has increased four to five times in commercial, industrial and residential areas and six to seven times in undeveloped land, fish ponds and rice fields over the past ten years.

Appendix 1-149 Table IV-9-2 PRICES OF OPEN LAND IN NOTA 1)

				Unit: Pesos/i	m2
Municipal	Residential	Commercial	Municipality	Residential	Commercial
Quezon City			Makati		
EDSA (inside)	600	1,600	EDSA		1,800
Kamuning	450	500	lst class subdiv.	1,600	-,
Diliman	350	_	žná class subdív.	400	_
Interior area	250		Commercial center		1,500
España j	350	800	Ayala avenue		5,000
			Legaspi office area		1,400
San Juan					1 -7
Greenhills 1st cl.	1,600	-	<u>Manila</u>		
Greenhills 2nd cl.	450	-	Sampaloe	350	800
Interior area	250	_	Sta. Cruz	600	1,200
EDSA Greenhüls		1,850	Tonđo	250	_
5			Sta. Ana	250	_
Mandaluyong			Pandacan	250	
EDSA		1,450			
Boni Avenue	250	-	Pasig		
Kalentong	350	450	Shaw	450	1,600
Shaw	600	1,400	Interior	350	i '''-
, and a second		,	Capitolyo	450	_
<u>Pasay</u>			Subdiv. outside		
Roxas Bld. (inside)	600	1,800	kapitolyo	250	-
Interior	490	-	, , , ,		
Parañague					
B.F. Homes	520	_			
Sucat	350	550			
Interior	350	-			
Las Pinas	350	550			

Source:

A real estate cealer in Pasig, Metro-Manila.

1) If a developer sells the lots, 30% is added on the cost for land acquisition and Note development cost as his return on the investment.

Appendix I-150

Table IV-9-3 LAND SALE PRICES IN NEWSPAPER ADVERTISEMENTS IN AUG., 1979

		-			(Pesos	/m²)
Land Use	Manila	Malabon & Valenzuela	Quezon	Mandaluyong & Pasig	Makati	Parañague
Industrial & Commercial						
Residential	130-1,000	130-400	100-1,000	180-280	1,200-1,600	170-370

Source: Selected from Bulletin Today, August 18-29, 1979.

Appendix 1-151 Table IV-9-4 ESTIMATED SUBSIDIES FOR THE SALES OF RESIDENTIAL LOTS

I. Alternatives	II .		11		III		II II II	
2. Year of sales and reclamation block	1988 B-111	E	1993 B-IV	-1.	1993 B-IV	\I-	1-8 966 B-I	B-I
3. Classification	Large	Small Lot	Large Lot	Small	Large Lot	Small	Large Lot	Small
4, Arca (m²)	110	70	110	70	110	70	110	20
5. Development cost per m ² 1)	475	475	403	403	421	421	445	445
6. Development cost per lot	52,250	33,250	44,330	28,210	46,310	29,470	48,950	31,150
7, CRF 0.1275, i= 12%, 25 yrs.	6,662	4,239	5,652	3,597	3,905	3,757	6,241	3.972
8. Cost per month (7. ÷ 12)	555	353	471	300	492	313	\$20	331
9, Administration cost (8, x 5%)	4.	17	23	15	25	16	92	16
10. Monthly equivalency (8. + 9.)	582	370	494	315	\$17	329	546	347
11. (Year of Salex) 2) Income affordability/mo	(1988) 196	(1988)	(1993)	(1993)	(1993)	(1993)	(1996)	(1996) S3
12, Subsidies (10, - 11.)	386	328	267	267	290	281	396	294
13. PW of 12, in the year of sales	36,329	30,871	25,129	25,129	27,294	26,447	27.859	27,671
14. Number of lots	1,376	582	4,580	1,972	3,004	1,456	1,428	2,846
15. Total subsidies in million	49,99	17,04	115.09	49.85	81.99	38.51	30.78	78,75
16, Total of 15,	• =- =	67,03		164,64		120.50		118,53

Notes: 1) Development cost covers the costs of reclamation and infrastructures of the residential area.

2) Income per family is assumed to increase 3% p.a. from 1979. Quoted from Table IV-9-2,

FORECAST MARKET PRICES OF THE RECLAIMED AREA, 1988-196 Appendix I-152 Table IV-9-5

		ž			Lot p			Year	Year of sales and revenues	enues			
Discription		area in ha,	Unit area in m ²	Number of lots	in Mot 1979 prices	1988	1989	1990	1993	1994	1995	1996	References
	 -				1,00	1881	629'1	01211	1,980	2,079	2,183	2,290	2,290 Land price indexes
Auternative i	<u> </u>	2	70	(2,846)	24,500							159.7	159.7 2,846 x 24,500 x 2,290
Kesia. T	Total	3.5	011	(42K)	38,500							(1,428) 125.9 285.6	125.9 (1,428 x 38,500 x 2,290 285.6 (
	::: ::::::::::::::::::::::::::::::::::	245 36	18,800	(149.5)	11.28 mil.	(49.8) 871.3	(49,8)	(49.8) 960.6	•	- Material I. mas s. A. a. 1 i deutst premeidele a.			48.3 x 11.28 x 1,551
. H		227 50%		C.20.7 (270.2)	11.28 mil.	871.3	915.1	9'096	(40) 893,4 893,4	(40) 938.0 938.0	(40.7) 1,002.2 1,002.2		40 x 11.28 x 1,980
Alternutive 11 A 1	2 <u>-</u>	5.5	70 110	(2,846) (1,428)	24.500 38,500							159.7	
Resid. B	111 8	2	20	(1.376)	24,500	(688) 26.1	26.1 (688) 27.5					·	.688 x 24,500 x 1,551
		*	110	(552)	38,500 (276)	9'01	11.2		;			-	276 x 38,500 x 1,511
23	% I.<	ë	70	(4,580)	24,500				3	74.0 (1,526) 77.7 (1,526)	81.6		1,526 x 24,500 x 1,980
ř		SH SH	110	(1.972)	005.8	36.7	38.7		50.1	52.6	55.3	285.6	657 x 38,500 x 1,980
Ind.	8 11 8 11 8	52. 62.	18,800	(101)	11.28 mil.	(50) 874.8	(18)		i				50 x 11.28 x 1,551
æ ₹-	8.rv Total	95 285	18,800	(50.5)	11.28 mil,	8.74.8	937.1		(25) 558,4 558,4	(25.5) 598.0 598.0			25.5 × 11.28 × 2,079
Alternative III Resid,		មភ	011	(2,846) (1,428)	38,500							159.7	
20	8 ī<	73	70	(3,004)	24.500	-			(1,502)	72.9 (1,502) 76.5			1,502 x 24,500 x 1,980
ř	otul	92	011	(3,734)	38,500				(728) 55.5 28.4	(728) 58.3 134.8		285.6	728 x 38,500 x 2,079
Ind, BI	88 === ===	<u> 3</u> 2	18,800	(140.9)	11.28 mū,	(46,6) 815.3	(46.6) 856.3	(47.7)	1				
# Z	B IV 1	119 384	18,800	(63.3)	11.28 mll.	815.3	8,56.3	8.006	469.0	202.6	(41.3) 524.5 524.5		•

Notes: 1) Land price is assumed to rise at 5% p.a.
2) () means the number of lots to be sold in that year,

Appendix I-153 Table IV-9-6

		Appendix i-133 Table IV-9-6	10-9-VI		PROJECTED	ED CASH	H FLOW:		AL TERNATIVE	VE I						
								ųa)	(Phase I)			000. 4)	0 in 1979		prices)	Î
Descriptions	1861	엹	83	4	88	98	87	88	68	06	16	36	93	76	98	96
A. Carry over from the previous year		0	1	22,147	49,000	34,166	99,372	3,594	75,894	75,894 143,516	894,674	894,674	667.824	667,824 1,571,224	2,496,928	3.540.538
B, Income of the your										·						
1. Equity of the corporation		\$,000	10,000	2,000		•			_							
2, Gov't agency's contribution						•			-	,			,			
a. MPH (Road & Eng.)	22.963	22,962	3,928	5,326	25,500	20,173	11,651	28,195		•	28,563	28,563	1,201	10,725	10,724	
b. MPW (Drain & seworage)						31,213	31,213		-		23,395	23,394			33,844	
c. MWSS (Water supply)							38,053					30.843		•	14 446	
d. Melco & PldTC			•			•	23,852				•	18.153			10,285	
e. M. Hum, Set. (parks, center, etc)			_			20,922	20,921				10,226	10.226		36.906	26.905	
f. MMA (Refuse site of B-1)			39,084	39,083				· ·								
3, Borrowings			000'000 300'001	300,000	250,000	400,000	150,000		•			- : -				
4, Sales of lots					-	·		871,300	915,100	960,600			893,400	938,000	1,002,200	285,600
a. Residence			_	_												
b, Industry																
5, Total of B,	22.963	27.962	27,962 153,012 349,409	349,409	275,500	472,30x	275.689	899,495 915,100	918,100	009'096	62,184	111,179	109'968	975,631	1,098,404	288,600
C. Expenses														•		
1. Detalled engineering	22,963	22,962						28.195					3,201			
2, Reclamation & infrastructures			117.615 297.306	297,306	237,334	324,102	240,467		1X2,47X	204,442	175,789	184.424	 -	39,927	762,77	
3. Compensation to fishery			8,250	8,250												
4. Interest payment				12,000	48,000	78,000	126,000 144,000 110,000	144,000	110,000						* <u></u>	
5. Repayment of loads						-		900'059	0000088							
6. Subsidies																118,530
7. Administration		8.000	000'\$	\$,000	\$,000	\$,000	8,000	000'\$	\$,000	\$,000	10,000	10,000	10,000	10.000	10.000	10,000
R. Total of C.	22,963	27.962	27.962 130.868 322.556	322,556	290,334	407,102	371,467	827,195	847,478	209,442	185,789	194,424	13.201	15,927	\$4,794	128.530
D. Surplus or deficit	0	0	22,147	49,000	34.166	99.372	3.594	75,894	143,516	75,894 143,516 894,674 771,069		667,824 1	\$71,024	2,496.928	1,571,224 2,496,928 3,540,538 3,699,218	812 609 1

Appendix I-154 Table IV-9-7

7 PROJECTED CASH FLOW: ALTERNATIVE II (Phase I)

(P'000 in 1979 prices)

Descriptions	1861	83	83	\$ 4	× ×	8	87	20	6 %	8	16	92	93	\$	95	8
A. Carry over from the previous year	۱ -	0	0	22,565	50,149	37,179	15,445	41,638	87,108	252,174	34,964	85.548	169'91	356,551	1,072,555	1,250,885
B, Income of the year												·				
1, Equity of the corporation		3,000	10,000	000'\$												
2. Gov't agency's contribution					•					. -						
u, MPH (Road*)	22,960	22,960	4,147	5,624	26,923	21,300	12,302	29,329			33,292	33,292	3,201	10,725	10,724	
b. MPW (Drain & sewerage)						30,440	30,440				27,999	27,998			33,844	
c. MWSS (Water supply)							33,646		-			31,855			14,466	
d, MELCO & PLDTC							25.967					26,723	-		10,285	
e. M. Hum. Set. (parks, centor, etc.)						33,178	33,178				31,819	31,820		26,906	26,905	
f, MMA (Refuse alto of B-1)			39,084	39,083												
3. Borrowings			100,000	000,000 000,000	250,000	300,000 250,000	250,000				150,000					
4. Sales of lots										•						
a, Revidence								36,700	38,700		•		124,100	130,300	136,900	285,600
b, Industry								874,800	937,100				558,400	598,000		
5, Total of B.	22,960		27,960 153,231 349,707 27	349,707	6,923	384,918	385,533	940,829	975,800	0	243,110 151,688	151,688	685,701	765,931	233,124	285,600
C. Expenses														•		
1. Detailed Eng.	22,960	22,960				•		29,329					3,201			
2. Reciamation & infrantructures			117,416	117,416 296,873	236,893	323,652	240,340	•	189,734	212,210	182,526	192,545		39,927	\$7.4	
3. Compensation to flahery			8,250	8,250												
4. Interest payment				12,000	48,000	78,000	78,000 114,000	144,000	96,000		•	18,000	18,000		**	
5. Repayment of loans			_					650,000	550,000	:			150,000	,,		
6. Subsidies								67,034					164,640			118,530
7. Administration		\$.000	5,000	5,000	5,000	8,000	5,000	67,030	5,000	5,000	10,000	10,000	10,000	10.000	10,000	10,000
8. Total of C.	22,960	27,960	27,960 130,666 322,123	322,123	289,893	406,652	359,340	894,239	810,734	217,210 192,526	192,526	220,545	344,611	49,927	\$7.8	128,530
D. Surplus or diffeit	0	0	22,565	50,149	37,179	15,445	41,638	87,108	252,174	34,964	85,548	16991	356.551	1.072,555	1,250,885	1,407,955

Appendix I-155

ALTERNATIVE III PROJECTED CASH FLOW: Table IV-9-8

(P'000 in 1979 prices)

615,546 1,083,147 1,698,151 2,264,061 285,600 285,600 118,530 10,000 128.530 2,420,431 14,446 10,724 33,844 10,235 26,905 Š 14,794 \$24,500 1,697,451 2,263,361 620,704 10,000 54,394 10,725 26,906 Į, 134,800 492,500 664.931 19.927 10,000 19,927 3,201 83 128,400 469,000 133,000 615,546 1,082,447 3,201 10,000 600,601 120,500 79,958 771,316 668,255 25,910 27,998 36,480 23,220 28,820 142,428 2 204,442 175,789 185,137 10,000 27.956 | 130.465 | 322.556 | 284.334 | 407.102 | 359.152 | 827.660 | 803.474 | 209.442 | 185.789 | 195.137 | 82,728 25,910 27,999 28.819 5,000 10,000 79,958 771,316 668,255 2 27.956 153.012 299,409 325.500 366.928 369.960 843.960 856.300 900.800 815,300 856,300 900,800 8 (Phase I) 27,136 82,478 \$,000 000,99 000'055 000'059 10,836 28,660 27,136 28.660 78,000 114,000 144,000 \$,000 90 90 90 11,651 31,212 15,543 000.5 38,053 23,537 117,615 297,306 237,334 324,102 240,152 988'01 100,000 | 250,000 | 300,000 | 300,000 | 250,000 82 20,173 31,213 15,542 40,166 \$.000 8 25,500 -1,000 S,000 42,000 40,166 8 5,326 22,147 000 \$,000 39,083 12,000 1,000 8,250 3 0 10,000 39,084 3,928 22,147 000'5 K,250 8 5.000 22,956 000.8 22.956 30 50 22.956 22.956 22,956 22,956 1981 e. M. Hum, Set. (purks, center, etc.) Year. A. Carry over from the previous year 2. Reclamation & infrastructures f. MMA (Refuse atte of B-1) b. MPW (Drain & sewerage) 2. Gov't agency's contribution 1. Equity of the corporation c. MWSS (Water supply) 4. MELCO & PLDIC 3. Compensation to fishery 5. Repayment of loans B. Income of the year a. MPH (Roads) 4. Interest payment D. Surplus or difficit 7. Administration a, Residence Descriptions 1. Detailed Eng. 4, Sales of lots b. Industry 3. Borrowings 5, Total of B. R. Total of C. C. Expenses 6, Subsidies

Appendix I-156 Table IV-10-1 ECONOMIC COST AND BENEFIT, 1981-1996 (Phase I)

(+'000 in 1979 prices)

		Alter	Alternative I				Alter	Alternative 11				Alter	Alternative III		
Year	Construe-	Administration	Subsidies	Savings in transport bubyidies of garbage of	Revenue of lot sales	Construc-	Adminis- tration	Subsidies	Savings in transport Subsidies of garbage c	Revenue of lot sales	Construc- tion	Adminis- tration	Subsidies	Savings transport of garbage	Revenue of lot sales
						3					18.21.7				
1861	18,227					× 1			-		117101				
64	25,494	000's				25,389	000.2				25,493	2,000			
es.	127,172	000's				126,597	\$,000				127,172	2,000			
72	282,203	000's		\$.309		280.924	000'\$		5,309		2×2,203	\$,000	 . 	\$.309	
~	225,276	\$,000		5.575		224,257	\$.000	, -	5,575		225,276	5,000	-	5.575	
9	307.635	000'5		5.853	_	306.243	000'\$		5,853		307,635	000's		5,853	
-	228,460	\$,000		6,146	_	227.749	000'S		6,146	_	228.140	\$,000		6,146	
3 0	26,441	000'S		6,453	871,300	28,166	\$,000	67,030	6,453	911,500	27,038	\$,000		6,453	815,300
٥.	173,124	2,000		6,776	915,100	180,875	8,000		6,776	975,800	176.842	2,000		6,776	856,300
1990	193,664	000'\$		7,115	960,600	202,335	\$,000		7,115	,	197,822	2,000	· · · · · · · · · · · · · · · · · · ·	7,115	900,800
-	166,522	10,000		7,471		173,977	10,000		7,471		176,098	10,000		7,471	
М	174.770	10,000		7,844		183,637	10,000	•	7,844		179.223	10,000		7,844	
6	2,946	10,000		8,236	893,400	2,946	10,000	164,640	8,236	682,500	2.946	10,000	120,500	8.236	597,400
4	37.100	10,000			938,000	37,100	10,000			728,300	37,100	10,000		-	627,300
v,	41,741	10,000			1,002,200	41,741	10,000	•		136,000	41.741	10,000			\$24,500
•		10,000	118,530	-	285,600		10,000	118,530	**	285,600		10,000	118,530		285,600
Total	Total 2,030,775	105,000	118,530	86,778	66,778 5,866,200	2,059,594	105.000	350.200	66,778	66,778 3,719,700	2,046,946 105,000	105,000	239,030	86,778	66,778 4,607,200

Appendix I-157
Table IV-10-2 COST-BENEFIT ANALYSIS TABLES

		DISC - 0%			DISC = 15%	فح		DISC = 30%	
Year	Invest.	Maint.	Benefits	Invest.	Maine.	Benefits	Invest.	Maint.	Benefits
1981	18.2	0.0	0.0	18.2	0.0	0.0	18.2	0.0	0.0
1982	30.5	0.0	0	26.5	0.0	0.0	23.5	0.0	0.0
1983	132.2	0.0	0.0	100.0	0.0	0.0	78.2	0.0	0.0
1984	287.2	0.0	-5.3	188.8	0.0	-3.5	130.7	0.0	4.7.4
1985	230.3	0.0	-5.6	131.7	0.0	-3.2	80.6	0.0	-2.0
1986	312.6	0.0	-5.9	155.4	0.0	-2.9	84.2	0.0	-1.6
1987	236.6	0.0	-6.1	102.3	0.0	-2.6	0.67	0.0	-7.3
1988	31.4	0	-877.8	11.8	0.0	-330.0	5.0	0.0	-139.9
1989	178.1	0.0	-921.9	58.2	0.0	-301.4	21.8	0.0	-113.0
1990	198.7	0.0	-967.7	56.5	0.0	-275.1	18.7	0.0	-91.3
1661	176.5	0.0	17.5	43.6	0.0	6. F	12.8	0.0	-0.5
1992	184.8	0.0	-7.8	39.7	0.0	-1.7	10.3	0.0	7.0-
1993	12.9	0.0	-901.6	2.4	0.0	-168.5	9.0	0.0	-38.7
1994	47.1	0.0	-938.0	7.7	0.0	-152.5	7.6	0.0	-31.0
1995	51.7	0.0	-1,000.2	7.3	0.0	-141.4	1.3	0.0	-25.4
9661	128.5	0.0	-285.6	15,8	0.0	-35.1	2.5	0.0	-5.6
Total	2,257.3	0.0 Total	-5,931.0	965.9	0.0 Hotal	-1,419.7	539.1	0.0 Total	-453.0
	B/C = -2.627			B/C = -1	47	1	B/C0	-0.840	
	و منششششش	المراجة المراجة المراجة	200						

Appendix 1-157 Table IV-10-2 COST-BENEFIT ANALYSIS TABLES

COST BENEFIT ANALYSIS TABLE **** Plan 2 (Phase I)

Year									
	Invest.	Maine.	Benefits	Invest.	Maine.	Benefits	Invest.	Maint.	Benefits
1981	18.2	0.0	0.0	18.2	0.0	0.0	18.2	0.0	0.0
1982	30.4	0.0	0.0	26.4	0.0	0.0	23.4	0.0	0.0
1983	131.6	0.0	0.0	5.66	0.0	0.0	77.9	0.0	0.0
1984	285.9	0.0	-5.3	188.0	0.0	2,5	130.1	0.0	-2.4
1985	229.3	0.0	-5.6	131.1	0.0	-3.2	80.3	0.0	-2.0
1986	311.2	0.0	5.9	154.7	0.0	-2.9	83.8	0.0	-1.6
1987	232.7	0.0	1.9-	100.6	0.0	-2.6	48.2	0.0	1.3
1988	100.2	0.0	-918.0	37.7	0.0	-345.1	16.0	0.0	-146.3
1989	185.9	0.0	-982.6	60.8	0.0	-321.2	22.8	0.0	-120.5
1990	207.3	0.0	1.7-	58.9	0.0	-2.0	19.5	0.0	-0.7
1661	184.0	0.0	-7.5	45.5	0	6.1	13.3	0.0	0.5
1992	193.6	0.0	-7.8	41.6	0.0	-1.7	10.8	0.0	7.0-
1993	177.6	0.0	-690.7	33.2	0.0	-129.1	7.6	0.0	-29.6
1994	47.1	0.0	-728.3	7.7	0.0	-118.4	1.6	0.0	-24.0
1995	51.7	0.0	-136.0	7.3	0.0	-19.5	1.3	0.0	-3.5
1996	128.5	0.0	-285.6	15.8	0.0	-35.1	2.5	0.0	-5.6
Total	2,515.2	0.0 Total	-3,786.5	1,027.0	0.0 Total	-985.9 41.0	557.4	0.0 Toral	-338.4
-	B/C = -1.5(505		B/C = -0.960			B/C = -0	-0.607	
	いい イャキャネネ	***	13.6%						

Appendix I-157 Table IV-10-2 COST-BENEFIT ANALYSIS TABLES

COST BENEFIT ANALYSIS TABLE **** Plan 3 (Phase I)

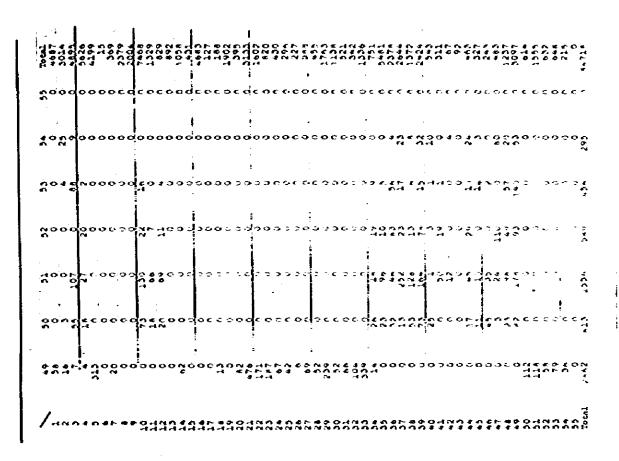
		DISC = 0%	_ 	-	DISC - 15%	72		DISC - 30%	
Year	Invest.	Maine.	Benefits	Invest.	Maine.	Benefits	Invest.	Maint.	Benefits
1961	18.2	0.0	0.0	18.2	0.0	0.0	18.2	0.0	0.0
1982	30.5	0.0	0.0	26.5	0	0.0	23.5	0.0	0.0
1983	132.2	0.0	0.0	100.0	0.0	0.0	78.2	0.0	0.0
1984	287.2	0.0	-S.3	188.8	0.0	ري. دي.	130.7	0:0	-2.4
1985	230.3	0.0	-5.6	131.7	0.0	-3.5	80.6	0.0	-2.0
1986	312.6	0.0	6.5.	155.4	0.0	-2.9	84.2	0.0	-1.6
1987	233.1	0.0	1.9-	100.8	0.0	-2.6	48.3	0.0	-1.3
1988	32.0	0.0	-821.8	12.0	0.0	-308.9	5.1	0.0	-131.0
1989	181.8	0.0	-863.2	59.4	0.0	-282.2	22.3	0.0	-105.8
1990	202.8	0.0	-907.9	57.6	0.0	-258.1	19.1	0.0	-85.6
1661	180.1	0.0	-7.5	44.5	0.0	-1.9	13.1	0.0	-0.5
1992	189.2	0.0	-7.8	40.7	0.0	-1.7	10.6	0.0	4.0-
1993	133.4	0.0	-605.6	24.9	0.0	-113.2	5.7	0.0	-26.0
1994	47.1	0.0	-627.3	7.7	0.0	-102.0	1.6	0.0	-20.7
1995	51.7	0.0	1524.5	7.3	0.0	-74.1	H .3	0.0	-13.3
1996	128.5	0.0	-285.6	15.8	0.0	135.1	2.5	0.0	-5.6
Total	2,390.7	0.0 Total	-4,674.1	991.4	0.0 Toral	-1.189.4	545.0	0.0 Total	-396.2
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Appendix II-1, Table 2-1 POPULATION BY MUNICIPALITY

PROVINCE/		Popula	tion		Average	Annual Increase
Municipality	1948	1960	1970	1975		'70-'75
PHILIPPINES	19,234,182	27,087,685	36.684.486	42,070,660	3.0	2.8
ZAMBALES	138,536	213,442	343,034	416,280	4.8	3.9
BULACAN	394,642				3.7	4.0
Malolos	38,779			83,491	4.2	2.4
San Miguel	38,093	•	58,712	66,870	3.1	2.6
San 11defonso	18,288	26,140	34,559	39,593	2.8	2.8
San Rafael	14,632	19,772	28,039	32,342	3.6	2.9
Angat	12,776	15,051	19,798	23,344	2.8	3.3
Norzagaray	13,394	12,202	19,144	23,750	4.6	4.4
San Jose del Monte			18,704	59,021	7.2	25.8
Baliuag	30,670		52,133	61,624	3.4	3.4
Bustos	10,493	13,412	19,254	22,622	3.7	3.4
Pandi	5,054	10,283	15,884	18,824	4.4	3.5
Santa Maria	17,509		36,369		3.3	
Pulilan	16,843	-	28,923	45,615	3.5	4.6
Plaridel	14,290			34,234	1	3.4
Guiguinto			27,648	-		3.4
Balagtas	7,979				4.2	5.1
•	8,085				5.2	4.6
Bocaue	16,537	-			4.2	3.6
Marilao V	6,206	_			5.8	5.4
Meycawayan	21,695			•		3.4
Calumpit	21,788		-	-		2.6
Bulacan	13,242		26,750	•		1.2
Obando	11,957			•	E .	3.6
Hagonoy	37,532		59,889			1.8
Paombong	13,437				2.2	3.4
PAMPANGA	416,583				3.9	2.8
Angeles City	37,558				5.9	2.4
Apalit	14,576			• .		2.7
Arayat	22,783					2.8
Bacolor	22,920				4	2.7
Candaba	16,036					3.1
Florida Blanca	24,825		•		3.3	2.7
Guagua	34,738		•			2.3
Lubao	36,574		•			2.6
Mabalacat	25,281		55,897	69,874	5.8	4.6
Macabebe	17,647			42,397	3.4	1.7
Magalang	13,049	18,626	26,342	31,462	3.5	3.6
Xasantol	15,770	24,159	30,538	32,658	2.4	1.4
Kexico	18,678	29,449	44,145			2.0
Minalin	9,856	16,223				3.0
Porac	14,685					4.2
San Fernando	39,549					3.1
San Luis	9,472	-				3.4
San Simon	9,607					2.4
Santa Ana	10,491					3.1
Santa Rita	12,684				1	2.7
Santo Tomas	-	12,097				2.4
Sexpoan	9,804					0.07

Continued

Cont'd.

PROVINCE/		Popul	ation			Annual Increase
Municipality	1948	1960	1970	1975		'70-'75
BATAAN	92,901	145,323	216,210	263,269	4.1	4.0
Balanga	12,379	18,143	28,484	34,289	4.6	3.8
Abucay	8,453	12,900	18,140	20,437		2.4
Bagac	2,745	6,889	9,268	10,676	3.0	2.9
Dinalupihan	14,341	21,249	30,509	36,302	3.7	3.5
Hermosa	8,437	12,550	19,501	23,246	4.5	3.6
Limay	4,509	7,126	12,912	18,182		7.1
Mariveles	4,462	9,067	16,157	25,167	5.9	9.3
Morong	3,338	5,734	6,738	7,793		3.0
Orani	12,718	17,618	25,740	29,464	3.9	2.7
Orion	8,721	14,672	19,672	24,283	3.0	4.3
Pilar	5,805	9,667	14,087	16,699		3.4
Samal	6,995	9,708	15,002	16,731	4.4	2.2
BATANGAS	510,224	681,414	926,308	1,032,009	3.1	2.2
LAGUNA	321,247	472,064	699,736	803,750	4.0	2.8
CAVITE	262,550	378,138	520,180	628,321	3.2	3.8
RIZAL	104,578	173,958	307,238	414,192	5.9	6.2
region(iv)mma	1,569,128	2,462,489	3,966,695	4,970,006	4.9	4.6
Valenzuela	16,740	41,473	98,456	150,605	9.0	8.9
Caloocan City	58,208	145,523	274,453	397,201	6.6	7.7
Quezon City	107,977	137,990	754,452	956,864	18.5	4.9
Malabon	46,455	76,438	141,514	174,878	6.4	4.3
Navotas	28,889	49,262	83,245	97,098	5.4	3.1
Marikina	23,353	40,455	113,400	168,453	10.9	8.2
San Juan del Monte	, ,	5 6, 861	104,559	122,492	6.3	3.2
Mandaluyong	26,309	71,619	149,407	182,267	7.6	4.1
Pasig	35,407	62,130	156,492	209,915	9.7	6.0
Makati	41,335	114,540	264,918	334,448	8.7	4.8
Pateros	8,380	13,173	25,468	32,821	6.8	5.2
Taguig	15,340	21,856	55,257	73,702	9.7	5.9
Pasay City	88,728	132,673	206,283	254,999	4.5	4.3
Parañaque	28,884	41,898	97,214	158,974	4.6	10.3
Las Piñas	9,280	16,093	45,732	81,610	11.0	12.3
Muntilupa	18,444	21,893	65,057	94,563		7.8
MANILA	983,906	1,138,611	1,330,788	1,479,116	1.6	2.1

Source: NCSO, Integrated Census, 1975

Appendix II-2, Table 2-2 EMPLOYED PERSONS BY RESIDENCE, 1975

Provinces	Total Employment Persons	Primary 1/	Secondary 2/	Tertiary 3/
Philippines	12,418,996	6,800,920	1,778,501	3,839,575
	(100.0)	(54.8)	(14.3)	(30.9) 5/
Zambales	114,594	34,308	13,320	66,966
	(100.0)	(29.9)	(11.6)	(58.5)
Bataan	74,975	29,840	16,496	28,639
_	(100.0)	(39.8)	(22.0)	(38.2)
Pampanga	266,576	85,299	65,837	115,440
Al	(100.0)	(32.0)	(24.7)	(43.3)
Bulacan4/	328.274	91,733	107,535	129,006
P	(100.0)	(27.9)	(32.8)	(39.3)
Rizal	1,237,262	61,409	418,884	756,9 1 9
	(100.0)	(5.0)	(33.9)	(61.1)
MMA	1,624,296	37,187	523,888	1,063,221
	(100.0)	(2.3)	(32.3)	(65.4)
Cavite	182,632	56,885	34,509	91,238
_	(100.0)	(31.1)	(18.9)	(50.0)
Laguna	241,490	89,019	61,935	90,536
	(100.0)	(36.9)	(25.6)	(37.5)
Batangas	308,152	148,159	61,903	98,900
	(100.0)	(48.1)	(19.8)	(32.1)

Source:

NCSO, Integrated Census, 1975

Notes:

- Primary agriculture, logging, mining and quarrying.
 Secondary manufacturing, electricity, gas and water, construction.
 Testiary wholesale and retail, transport storage and communication, etc.
- 4/ Including Valenzuela
- 5/ () indicates percent composition.

Appendix II-3, Table 2-3 AVERAGE FAMILY INCOME, 1975

Area	Number of Families (Thousands)	Total Family Income (Millions of Pesos)	Average Family Incom (Pesos)
Philippines .	6,859	40,059	5,840
Region I	558	3,082	5,525
Region II	329	1,679	5,102
Region III	662	3,824	5.773
Bataan	42	195	4,632
Butacan	149	864	5.806
Nueva Ecija	148	600	4.068
Pampanga	152	1,113	7,317
Tariac	97	'516	5,309
Zambales	75	537	7.188
Region IV (MMA)	770	8,057	10,469
Manila	247	2,432	9,834
Quezon City	133	1,633	12,241
Caloocan City	68	332	7,858
Pasay City	33	208	6,361
Las Pinas	13	215	16,667
Makati	45	993	21,969
Malabon	29	187	6,561
Mandaluyong	29	313	10,646
Marikina	29	298	10,171
Muntiluea	13	103	8,175
Navotas	15	105	6,818
Paranaque	23	348	15,000
Pasie	34	1 230	6,866
Pateros	5	36	6,667
San Juan	18	149	8,142
Taguig	l iĭ	l šó	7,018
Valenzuela	24	201	8,353

Source: NCSO Special Release No. 190 and NEDA Regional Development Information, 1978.

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Province	Number of Establishments	Employment (Average for the Year)	Gross Roceipus (#1,000)	Gross Receipts Gross Receipt Per Establishment (P1,000) Per Employee (P1,000)	Gross Receipt Per Employee (P1,000)
Bataan	2.044	4,008	61,476	30	15
Bulacan	6,774	15,127	274,301	04	: ±0 ←1
Pampanga	10,370	18,283	451,326	77	52
Zambales	5,394	10,817	161,603	000	15
Man11a	24,039	80,720	9,002,747	375	112
Rizal	40,155	138,119	18,151,286	452	131
Bacangas	7,978	13,792	153,174	67	
Cavite	6,158	10,122	98,522	97	01
Laguna	8,381	15,785	327,985	330	21
Philippines	341,850	802,262	40,670,785	119	51

Source: NCSO, Annual Survey of Establishments "WHOLESALING AND RETAILING", 1974.

Values in P1.000 Appendix II-5, Table 2-5 GENERAL STATISTICS FOR ALL CONSTRUCTION ESTABLISHMENTS, 1974

Province	Number of Establishments	Employment (Average for the Year)	Value of Gross Output	Census Value Added	Value of Gross Output Per Extublishment	Census Value Added per Establishment	Value of Gross Ourput Per Employee	Census Value Added per Employee
Bacaan	9	553	8,124	2,859	1911	408	15	S
Pampanga	7	717	2,172	1,476	543	369	'n	4
Manila	07	9,607	201,200	111,108	5,030	2,778	27	12
Rizal	107	14,594	466,377	215,287	4,359	2,012	32	15
Philippines -	222	29.746	760.853	367,657	3,427	1,656	26	12

Source: NCSO, Annual Survey of Extublishments "CONSTRUCTION", 1974,

Appendix II-6. Table 2-6 CENERAL STATISTICS FOR ALL MINING AND QUARRYING ESTABLISHMENTS. 1974

		A. C. W. W. W. W. W. W. W. W. W.	The second secon	The state of the s				
Province	Number of Extablishments	Employment (Average for the Year)	Value of Gross Output	Census Value	Value of Gross Output Per Establishment	Census Value Added Per Establishment	Value of Gross Output Per Employee	Census Value Added Per Employee
Bulacan	77	223	2,109	1,427	68	59	6	9
Zambales	9	2,831	96,083	70,178	16,014	11,696	34	25
Manila	15	799	9,786	6,706	652	777	15	01
Rizal	19	1,344	22,734	12,067	1,197	635	17	თ
Cavite	7	27	102	81	26	50	7	ന
Laguna	4	193	7,434	3,931	1.858	686	33.6	20
Philippines	201	40,171	40,171 3,492,566	2,381,433	17,376	11,848	87	69

Source: NCSO, Annual Survey of Estublishments "MINING AND QUARRYING", 1974.

Appendix II-7, Table 2-7		NUMBER OF P	R OF PERSONS EMPLOYED IN BRACKISHWATER AND FRESHWATER FISHPONDS, 1970	COYED IN BR	ACKISHWATE	AND FRE	SHWATER FIS	SHPONDS, I	0/6
	3		Permanen	Permanent Workers		Λdć	Additional Worker During Peak Period	During Peak Pe	riod
Province	Number of Employed Workers	Total	Managerial Personnel	Fishpond Workers	Other Workers	Total	Managerial Personnel	Fishpond Workers	Other Workers
Philippines	682,69	28.088	3.604	18,358	6,126	41,151	372	26,311	14,468 468
Zambales	3373	200	3.5	200	50	1,677	in.	84.5 84.5	200
Pampanka	1001	833	105	592	138	1,066	4	792	270
Bulacan	2,720	894	1.50	634	2.	 	91	90.1	4.0
Rizal	1,846	498	96	727	74.	71 × 20 -	e-	210	0-
Manila	51	37		O t	\$	4.0	; 0	1 60	:5
Cavite	1,777	21.0	163	/xc	60.	0.0	c	2-	35
Laguna	006	77.2	4	3,50	0,0	G (! -	100	
Batangas	316	44	17	.16	30	- N / 1	1	00.1	CO.

Source: NCSO, Census of fishery, 1971.

Appendix II-8, Table 2-8 NUMBER OF FISHING HOUSEHOLDS AND EXTENT OF DEPENDENCY ON FISHING, 1970

	Total Number of	Number of Househo	Number of Households Reporting Fishing
Province	Fishing Household	Sole Source of Income	Other Source of Income
Philippines	82,305	24,031	58,274
Zam bates Bataan	× ×	576	233
Pumpungu	CO CO	1,600	6,633
Bulacan Rizal	୦୦ ୬୦ ମଧ୍ୟ କ	1,537	1,599
Manija	***	1;	15
Cavite	900	465	197
Laguna	14.4	4.00.0	000,1
Batangas	0.50	017	274

Source: NCSO, Census of fishery, 1971.

PRODUCTION AND VALUE OF OUTPUT IN THE FISHERIES SUMMARY OF ESTIMATED AREA, Appendix II-9. Table 2-9

Bulacan 17,414	Bataan 1,137	35.497
17,414	1,137	35.497
17,414	1,137	33.65
	~	£1706 ·
705.12	204,1	110,70
0.1.0	1 103	32,394
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	9.9 (2.9	276 701
200	0 dept. 0	000001
	\$ 60.3	158 415
\$70°/	200	
21,790	1 000	27.950
	5,588 98,813 77,023 21,790	5,588 98,813 77,023 5,845 21,790

Source: DPWTC and Tahal Engr. Consultants Ltd., Pampangu Delta Candaba Swamp Area Development Project, 1978.

Appendix II-10 Table 2-10 EXPORTS: PHILIPPINES AND BATAAN EXPORT PROCESSING ZONE

A. Export and Import Targets (in current million U.S. dollars)

	1978	1982	1987	Growth Rate 1978-87 (percent)
Exports	3,572	7,038	16,795	18.8
Imports	4,580	8,351	17,692	16.2
Trade Balance (deficit)	(1,008)	(1,313)	(897)	

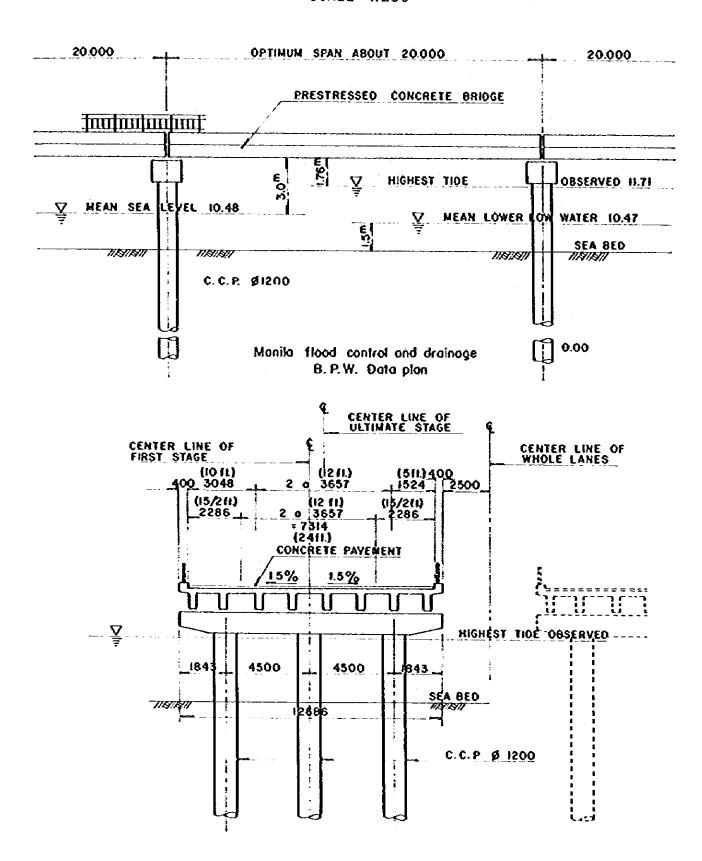
B. Export by Major Categories (in percent share)

	1978	1982	1987	
Manufacturing	35	42	50	
Non-manufacturing	65	58	50	
Total	100	100	100	

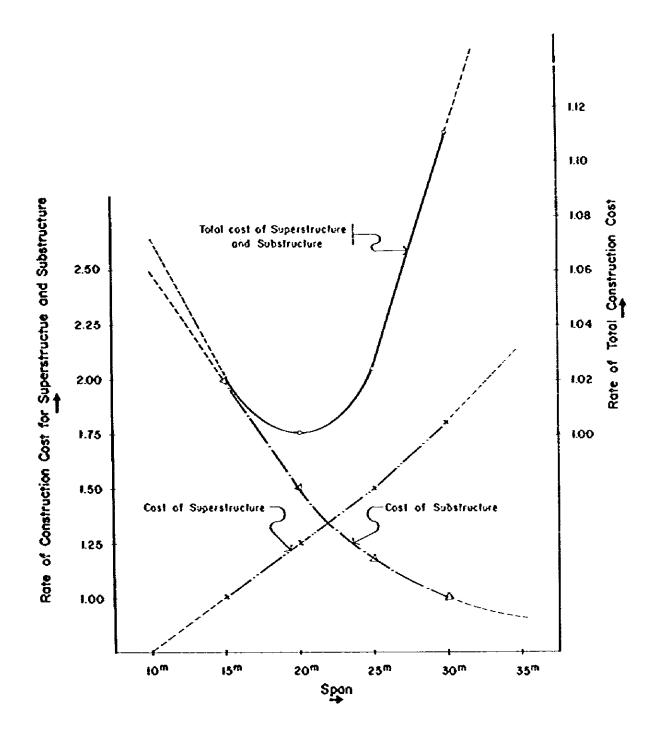
Source: NEDA, Summary of the five-year Philippine development plan, 1978-1982 (including the ten year development plan, 1978-1987), 1977.

Appendix II-11

Fig. 3-1 GENERAL VIEW OF CONCRETE VIADUCT SCALE = 1:200



Appendix II-12 Fig. 3-2 OPTIMUM SPAN LENGTH OF CONCRETE VIADUCT









RIBBAN PURPUGISAN BERTARAK PERLEPUNAKA PURPURKAN PERLEPUKAN BERTARAK PERLEPURTAK PERLEPUKAN PERLEPUKAN PERLEPUKAN P