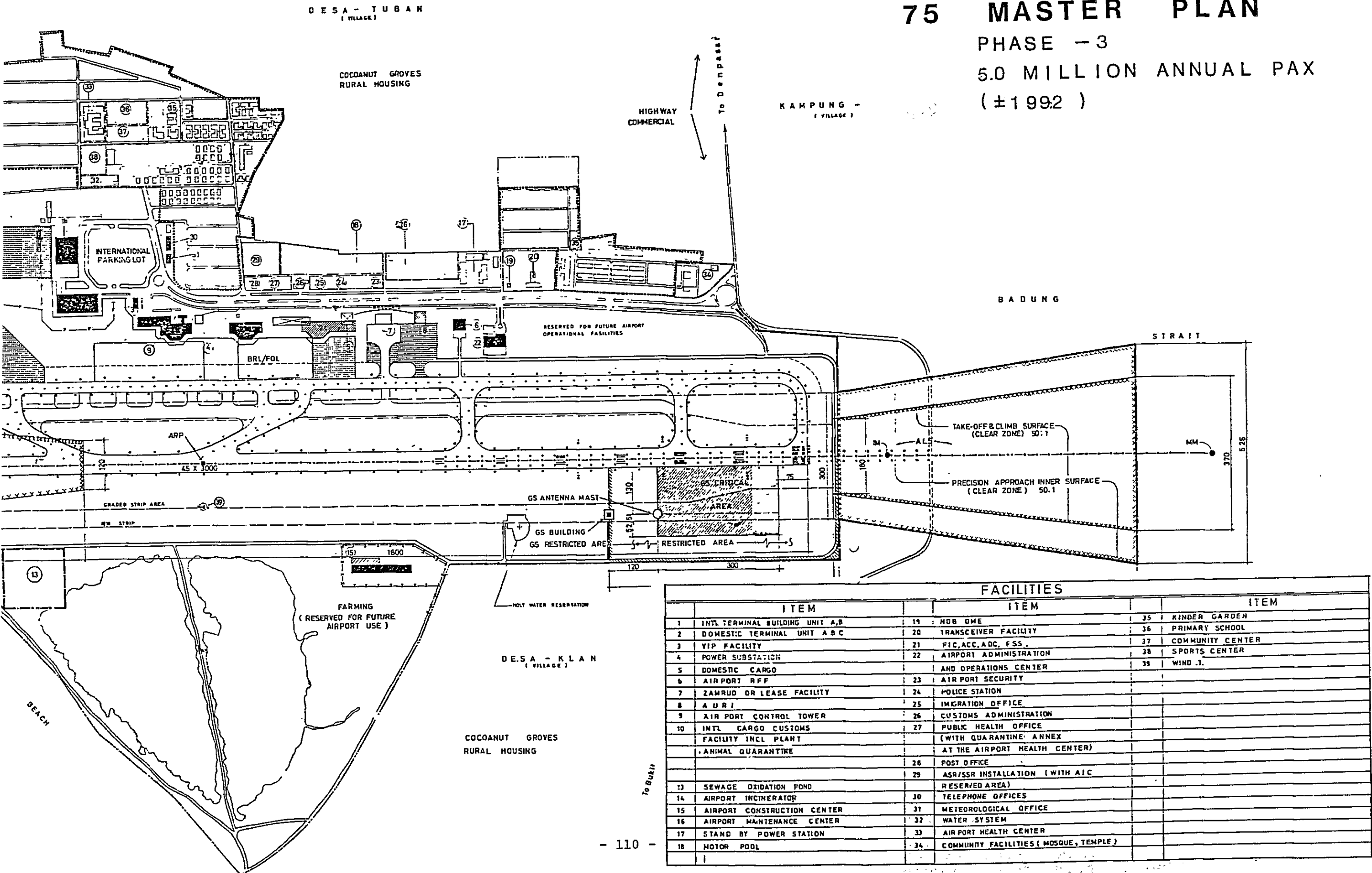


75 MASTER PLAN

PHASE - 3

5.0 MILLION ANNUAL PAX
(±1992)

ACH - FRONT
SORT HOTELS



FACILITIES		
ITEM	ITEM	ITEM
1 INTL TERMINAL BUILDING UNIT A,B	19 NOB OME	35 KINDER GARDEN
2 DOMESTIC TERMINAL UNIT A B C	20 TRANSCEIVER FACILITY	36 PRIMARY SCHOOL
3 VIP FACILITY	21 FIC, ACC, ADC, FSS	37 COMMUNITY CENTER
4 POWER SUBSTATION	22 AIRPORT ADMINISTRATION	38 SPORTS CENTER
5 DOMESTIC CARGO	AND OPERATIONS CENTER	39 WIND T.
6 AIRPORT RFF	23 AIRPORT SECURITY	
7 ZAMRUD OR LEASE FACILITY	24 POLICE STATION	
8 AURI	25 IMMIGRATION OFFICE	
9 AIRPORT CONTROL TOWER	26 CUSTOMS ADMINISTRATION	
10 INTL CARGO CUSTOMS FACILITY INCL PLANT	27 PUBLIC HEALTH OFFICE (WITH QUARANTINE ANNEX AT THE AIRPORT HEALTH CENTER)	
ANIMAL QUARANTINE	28 POST OFFICE	
	29 ASR/SSR INSTALLATION (WITH AIC RESERVED AREA)	
13 SEWAGE OXIDATION POND	30 TELEPHONE OFFICES	
14 AIRPORT INCINERATOR	31 METEOROLOGICAL OFFICE	
15 AIRPORT CONSTRUCTION CENTER	32 WATER SYSTEM	
16 AIRPORT MAINTENANCE CENTER	33 AIRPORT HEALTH CENTER	
17 STAND BY POWER STATION	34 COMMUNITY FACILITIES (MOSQUE, TEMPLE)	
18 MOTOR POOL		

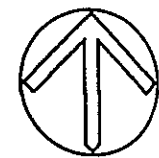
BEACH FRONT
RESORT HOTELS

COCOANUT GROVES
RURAL HOUSING

DESA - TUBAN
(VILLAGE)

PROPERTY TO BE PURCHASED
FOR AIRPORT DEVELOPMENT
BEYOND 1996 (OPTIONAL)

BALI STRAIT



BEACH

RESCUE BOAT
LAUNCHING AREA

BR/EDL

ARP

45 X 3000

GRADED STRIP AREA

R/W STRIP

GS ANTENNA MAST

GS BUILDING

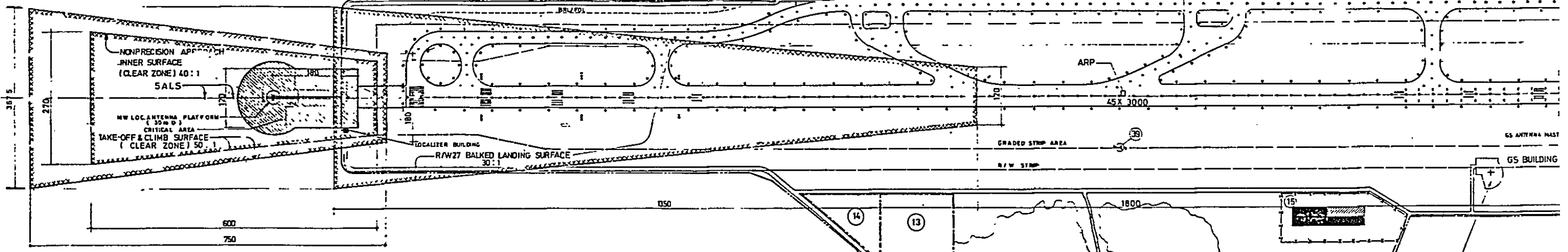
HOLY WATER AREA

FARMING
(RESERVED FOR FUTURE
AIRPORT USE)

DESA - K'UAN
(VILLAGE)

COCOANUT GROVES
RURAL HOUSING

BEACH



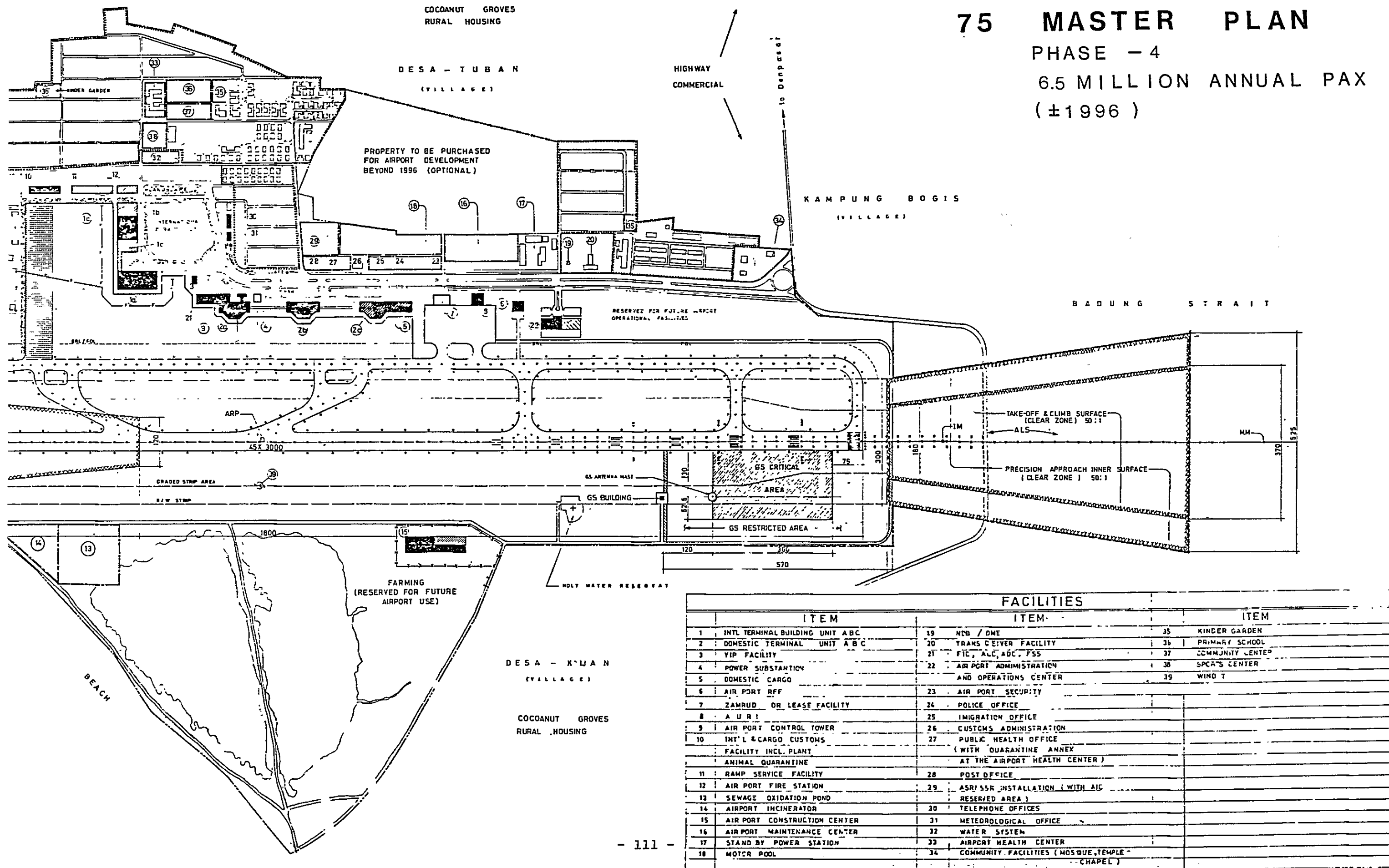
LEGEND

EXISTING	PLANNED	
---	---	FENCE (X) POWER (P) WATER(W) FUEL (F)
---	---	GROUND CONTOURS
---	---	AIRPORT PROPERTY LINE
□	□	DRAIN INLET
○	○	RUNWAY & TAXI WAY LIGHTS
▨	▨	PAVED AREA
▨	▨	EXISTING BUILDING TO BE REMOVED
▨	▨	EXISTING BUILDING TO REMAIN
▨	▨	PROPOSED BUILDING CONSTRUCTION/RENOVATION
▨	▨	PROPOSED BUILDING COMPLETED IN PHASE
---	---	R/W CLEAR ZONE
XXXXXX	XXXXXX	AVIATION CLEAR ZONE
---	---	USE AREA
---	---	LAND SCAPING
---	---	STAFF HOUSING AREA
ILS		INSTRUMENT LANDING SYSTEM
B.R.L		BUILDING RESTRICTION LINE
LM		INNER MARKER
M.M		MIDDLE MARKER
A.L.S		APPROACH LIGHTING SYSTEM
S.A.L.S.		SIMPLE APPROACH LIGHTING SYSTEM

75 MASTER PLAN

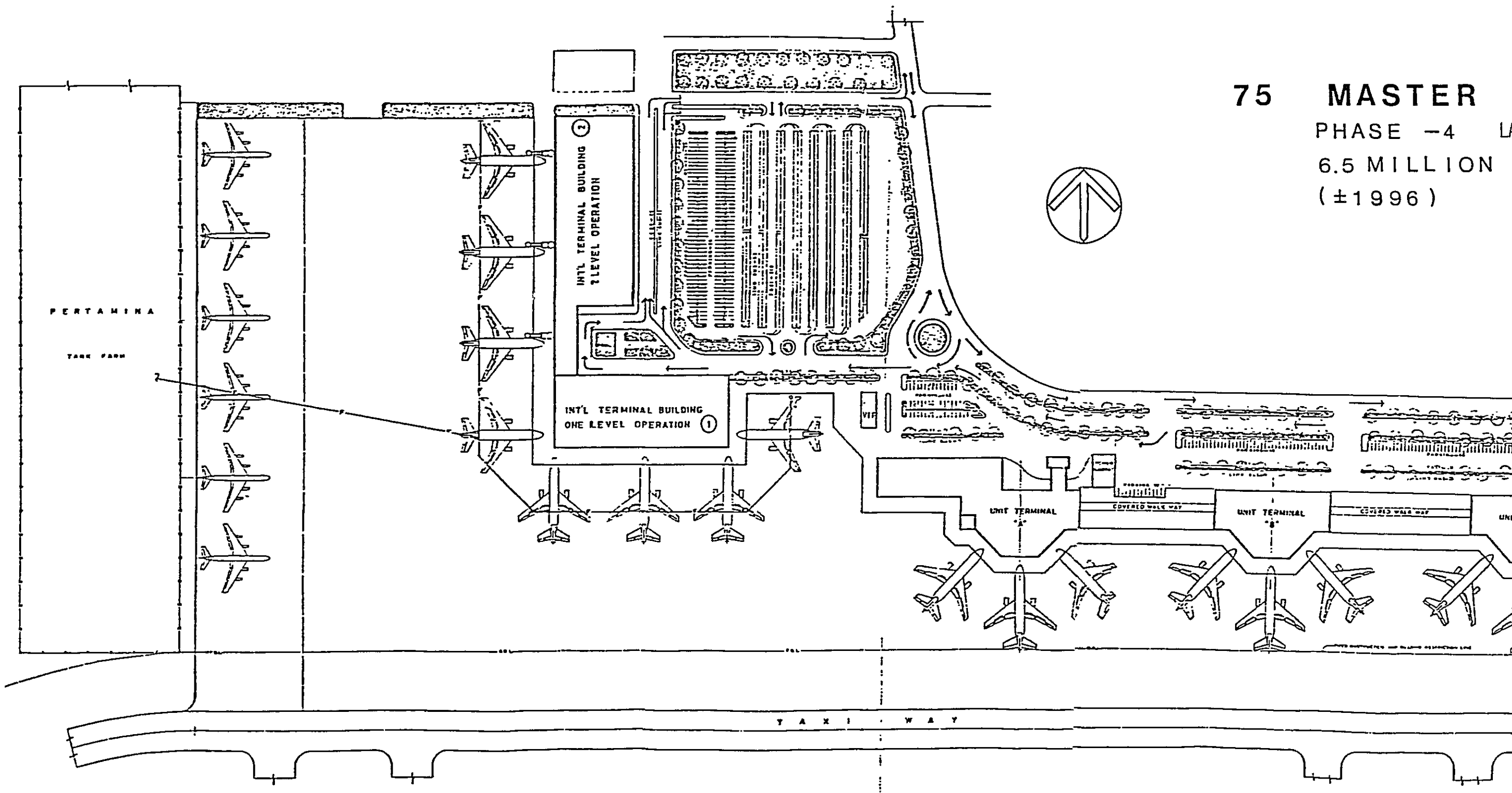
PHASE - 4

6.5 MILLION ANNUAL PAX (±1996)



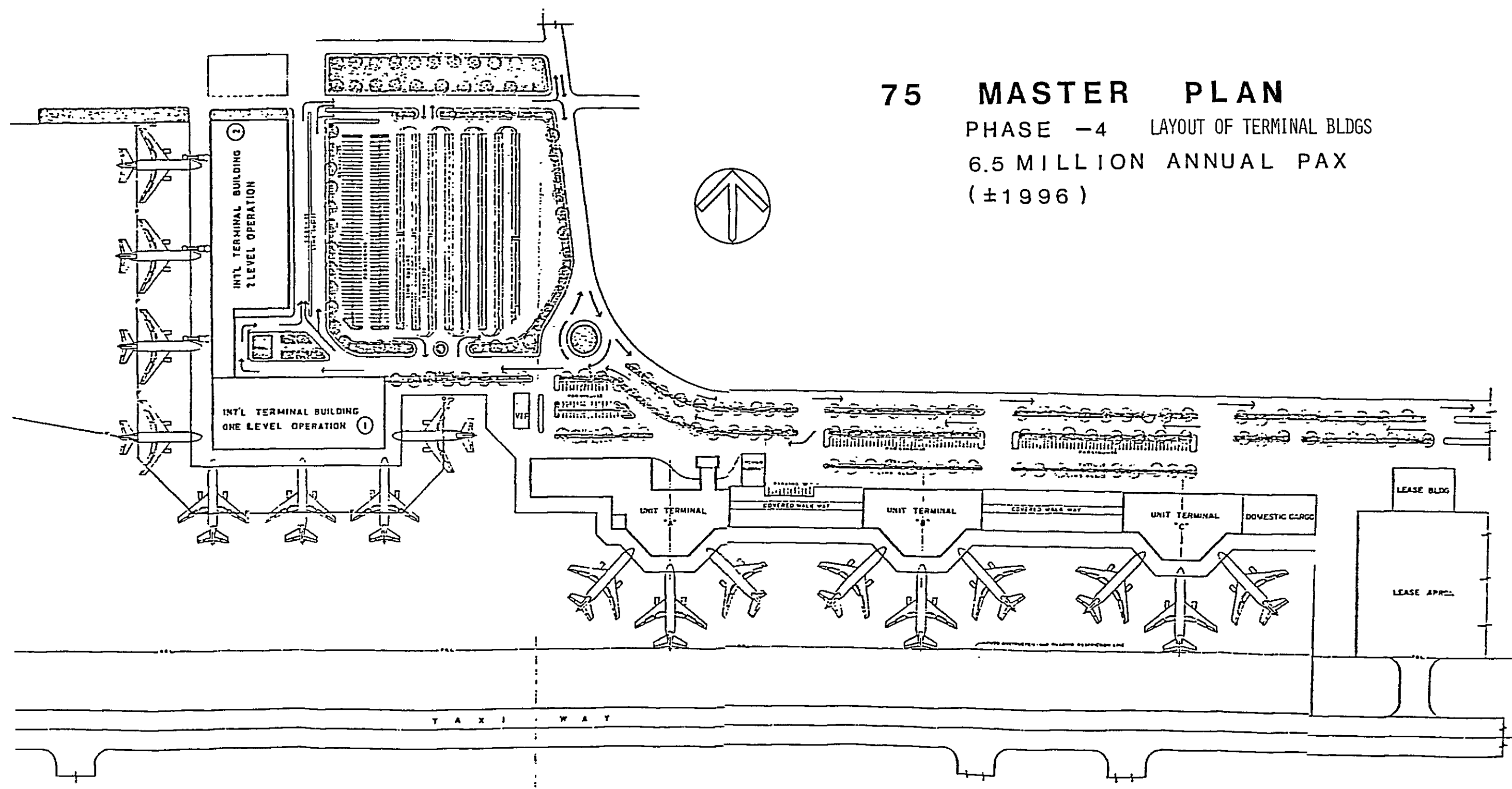
FACILITIES		
ITEM	ITEM	ITEM
1 INTL TERMINAL BUILDING UNIT ABC	19 NCB / DME	35 KINDER GARDEN
2 DOMESTIC TERMINAL UNIT ABC	20 TRANS CEIVER FACILITY	36 PRIMARY SCHOOL
3 VIP FACILITY	21 FIC, ALC, ADC, FSS	37 COMMUNITY CENTER
4 POWER SUBSTATION	22 AIRPORT ADMINISTRATION	38 SPORTS CENTER
5 DOMESTIC CARGO	AND OPERATIONS CENTER	39 WIND T
6 AIRPORT RFF	23 AIRPORT SECURITY	
7 ZAMRUD OR LEASE FACILITY	24 POLICE OFFICE	
8 AURI	25 IMMIGRATION OFFICE	
9 AIRPORT CONTROL TOWER	26 CUSTOMS ADMINISTRATION	
10 INT'L & CARGO CUSTOMS	27 PUBLIC HEALTH OFFICE	
FACILITY INCL. PLANT	(WITH QUARANTINE ANNEX	
ANIMAL QUARANTINE	AT THE AIRPORT HEALTH CENTER)	
11 RAMP SERVICE FACILITY	28 POST OFFICE	
12 AIRPORT FIRE STATION	29 ASR/SSR INSTALLATION (WITH AIC	
13 SEWAGE OXIDATION POND	RESERVED AREA)	
14 AIRPORT INCINERATOR	30 TELEPHONE OFFICES	
15 AIRPORT CONSTRUCTION CENTER	31 METEOROLOGICAL OFFICE	
16 AIRPORT MAINTENANCE CENTER	32 WATER SYSTEM	
17 STAND BY POWER STATION	33 AIRPORT HEALTH CENTER	
18 MOTOR POOL	34 COMMUNITY FACILITIES (MOSQUE, TEMPLE	
	CHAPEL)	

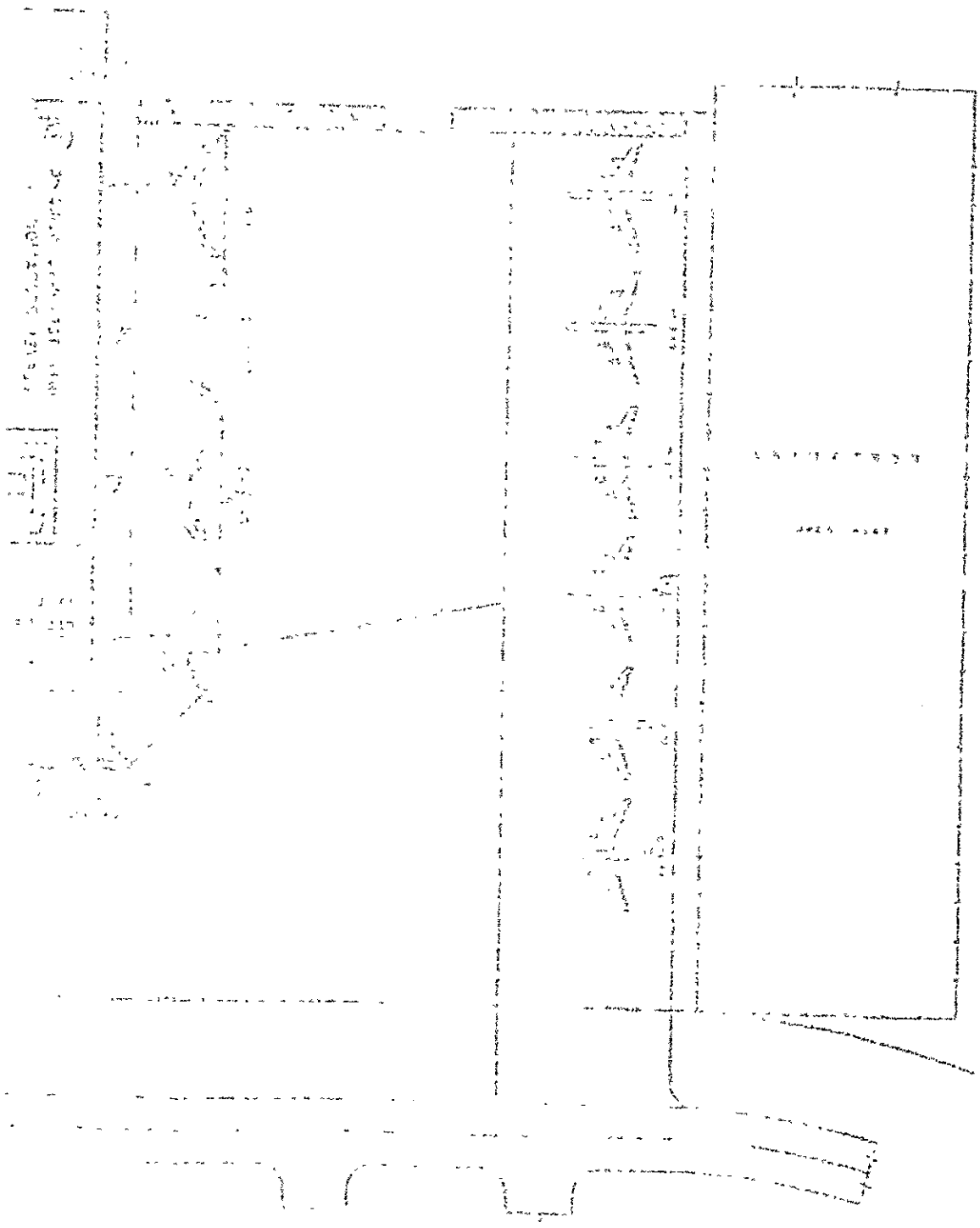
75 MASTER
PHASE -4 LA
6.5 MILLION
(±1996)



75 MASTER PLAN

PHASE -4 LAYOUT OF TERMINAL BLDGS
6.5 MILLION ANNUAL PAX
(±1996)





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APPENDIX TO CHAPTER 10



Airport Organization

Generally, it can be said that there is a correlation between airport facility requirements based on air transport demand and the number of airport administration staff. There is an interrelation between airport administration staff and annual passenger volume at BIA in 1981 as follows:

$$\text{In} = \frac{\text{St}}{\text{Pax}}$$

$$= 0.45 \text{ Persons Per } 1,000 \text{ Annual Pax.}$$

Where : In = Interrelation Factor.

St = Number of Airport Administration Staff,
about 450 persons.

Pax = Number of Annual Pax (1981) about 1,000,000.

The following are some examples of Japanese airport administration staff situations. These airport terminal buildings have been administrated by private companies, which differs from other foreign countries.

<u>Name of Airport</u>	<u>Annual Pax (x1,000) in 1981</u>	<u>Percent Staff per 1,000 pax. Annual</u>
Osaka Int'l Airport	15,600	0.020
Fukuoka	7,700	0.023
Nagoya	2,500	0.052

As a result, BIA has a high percent of staff compared with Japanese airports. The following two basic assumptions were made to establish the number of BIA airport administration staff.

- (1) Percent staff per pax is 0.45 persons per 1,000 annual pax.
- (2) The growth rate of percent of staff is assumed to diminish annually as follows. These percentages were established based upon the Japanese airport administration staff mentioned before.

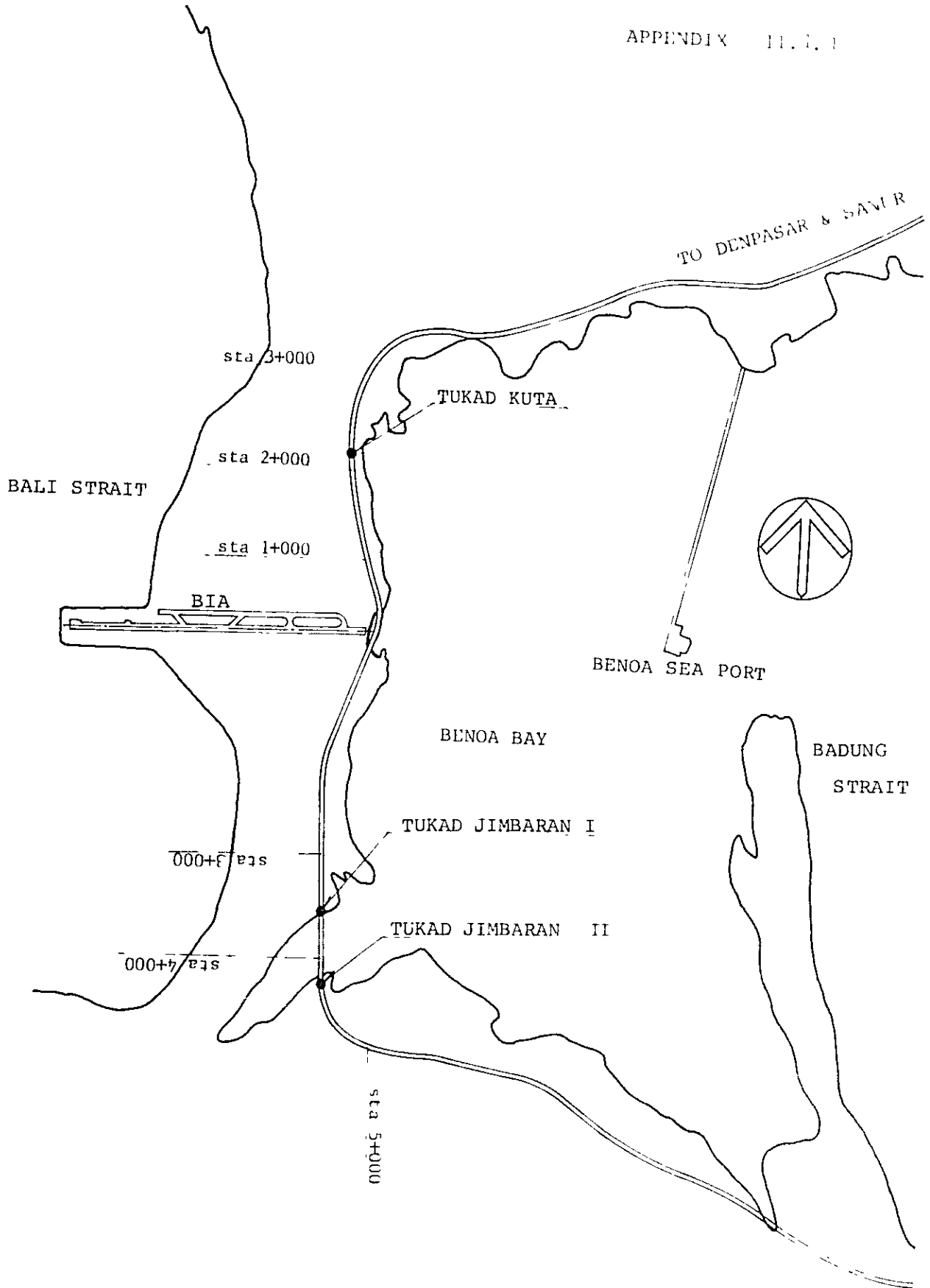
The required numbers of airport administration staff at BIA have been estimated as follows:

<u>Year</u>	<u>Annual Pax. (1000)</u>	<u>Percent Staff per the Annual Pax.</u>	<u>Airport ADM. Staff (Persons)</u>
1981	1,000	0.45	450
1985	1,400	0.40	550
1990	2,400	0.35	800
1995	3,400	0.30	1,000
2000	4,700	0.25	1,000
2005	6,100	0.20	1,050
2010	7,800	0.15	1,200

There is no fundamental methodology to distribute airport administration staff into each division because each division has its own special functions and duties. However, for the purpose of the outlined airport organization study for the feasibility study of BIA, each annual total for airport administration staff calculated is distributed into each division in accordance with actual share of the divisions in 1981. The break-down of airport administration staff for each division is shown in Final Report.

APPENDIX TO CHAPTER III












Location of soil investigation carried out

BORING PROFILE

Project : BALI TRL HIGHWAY.

Location : Tukad Kuta.

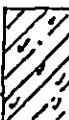


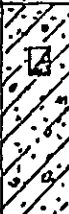
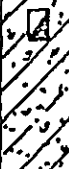


Scale (N)	Diagram	Symbol	Soil Name	Description	Sampling & Depth	Standard Penetration Test	
						Depth	N
0		OH-SC	organic clayey silty sand.	dark grey/black very soft high organic clayey silty fine sand.		$\frac{2.00}{2.30}$	1
		ML	sandstone	dark grey/black very soft fine sandstone (dense sand). brownish grey dense very fine sandy silt, trace cemented.		$\frac{4.00}{4.30}$	19
5		SM	silty sand	dark grey/black medium dense silty fine sand.		$\frac{8.00}{8.30}$	21
10		SP	sand	black fine sand, very loose.		$\frac{10.00}{10.30}$	3
		SM	silty sand	silty fine sand, medium dense, trace fine coral.		$\frac{12.00}{12.30}$	20
			cemented clayey silt	brown fine sandy clayey silt, very dense partly cemented.		$\frac{14.00}{14.17}$	51 ⁺⁺
15				end of boring.		$\frac{15.00}{15.30}$	29
Date of boring : January 12 - 13, 1979.							

BORING PROFILE

Project : BALI T R L HIGHWAY.

Location : Tukad Jimbaran.

Boring : I.

Scale (M)	Dia-gram	Symbol	Soil Name	Description	Sampling & Depth	Standard Penetration Test	
						Depth	N
0		Pt-OH	organic silty clay & vegetation	dark brown vegetation and fine sandy silty clay w/ shell inclusions very soft.			
		SP	sand	fine to medium coarse sand and some coral sand, trace of organic silt, loose.		$\frac{2.00}{2.30}$	2
		SP	sand & coral	black organic silty fine sand and fragmented coral and shells.		$\frac{4.00}{4.10}$ +++	50+++
5			coral & corally sandy clay/silt.	coral, coral sand and white clayey silt.		$\frac{6.00}{6.20}$ ++	52++
				yellow coral and mix. of fragmented coral, coral sand, silt and some clay. colour light yellowish brown.		$\frac{8.00}{8.30}$	50
10				end of boring.		$\frac{10.00}{10.30}$	26
						$\frac{11.00}{11.20}$ +++	50+++
15				Date of boring : January 16 - 17, 1979.			

BORING PROFILE

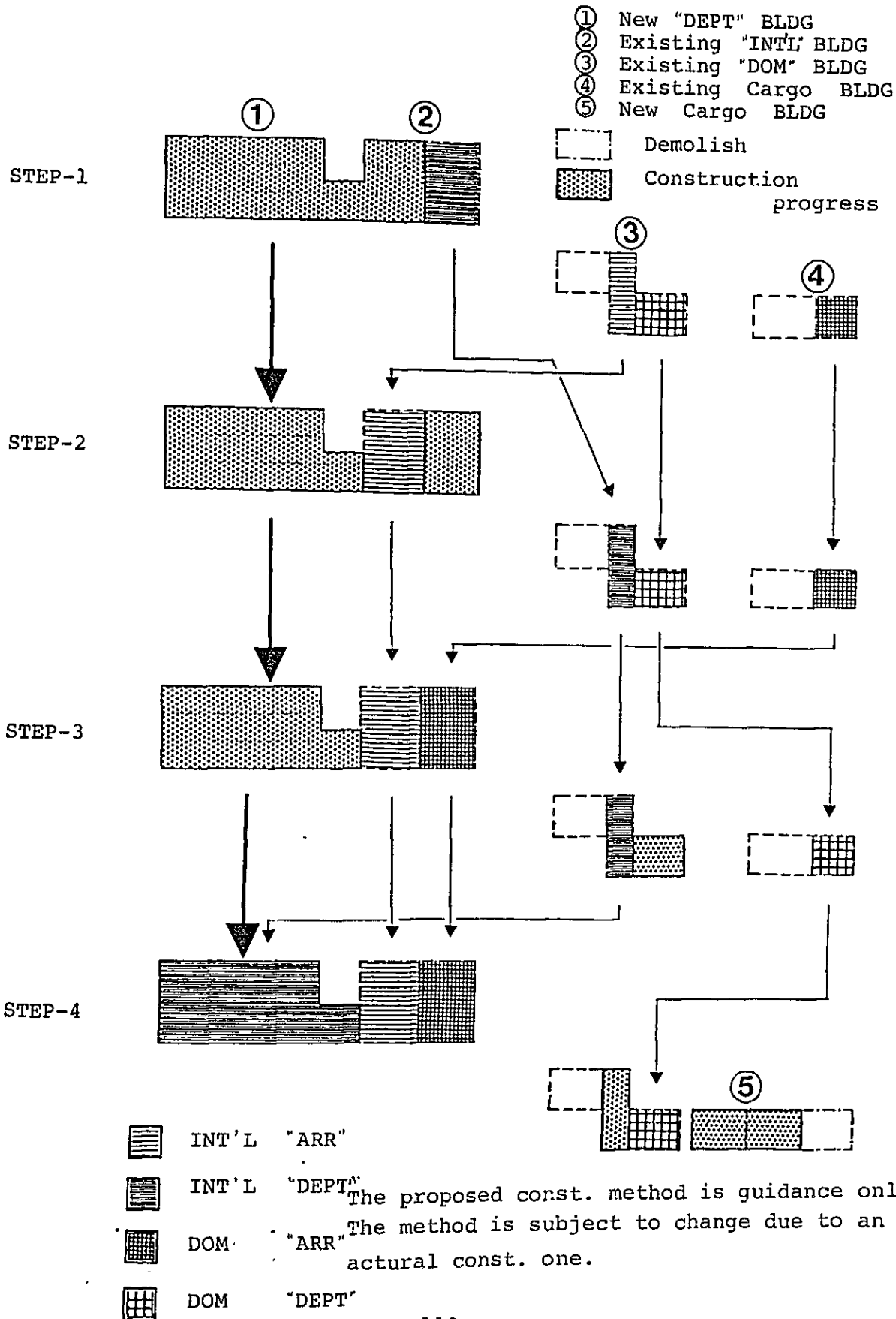
Project : BALI T R L HIGHWAY.

Location : Tukad Jimbaran.

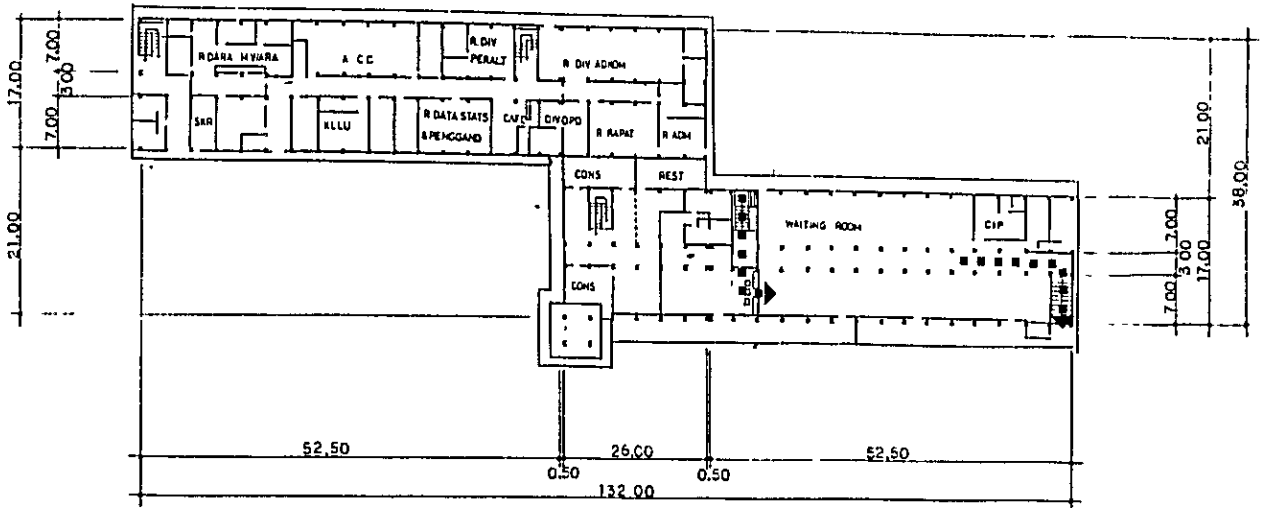
Boring : II.

Scale (M)	Diagram	Symbol	Soil Name	Description	Sampling & Depth	Standard Penetration Test	
						Depth	N
0		Pt-OH	organic clay & vegetation	dark brown vegetation and fine sandy silty clay, very soft.			
		SM	silty sand	black organic silty fine sand, trace of fine coral sand, loose.		2.00 2.30	3
			coral & clayey silty corally sand	coral, coral sand and grey coral, sand, silt and clay mixture.		4.00 4.21	50 ⁺⁺⁺
5			lime	soft limestone and white silt, colour white.		6.00 6.30	28
				colour light yellow - white.		8.00 8.30	22
				colour yellowish brown.		10.00 10.30	37
10			coral & sandy silt.	coral mixed w/ grey fine sandy silt, trace fine coral sand.		11.00 11.30	25
				end of boring.			
				Date of boring : January 15, 1979.			
15							

PROPOSED CONSTRUCTION METHOD FOR
1990 DEVELOPMENT PLAN



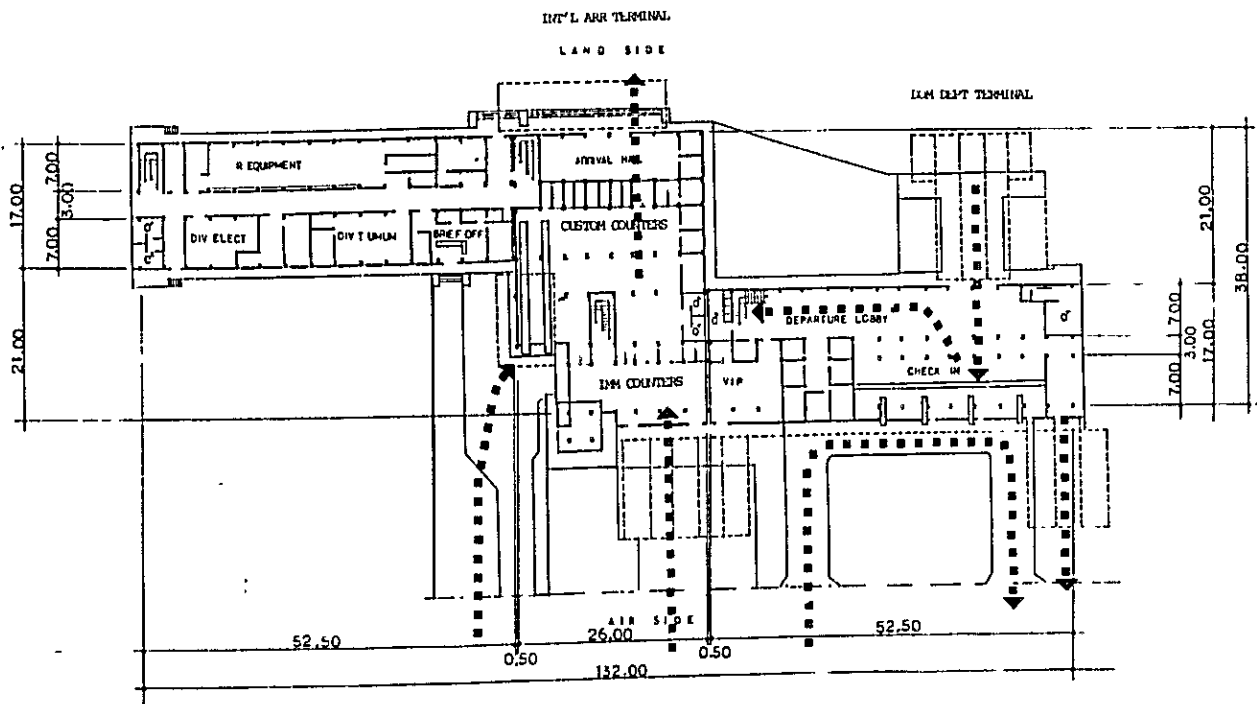
APPENDIX 11.3.3



2ND. FLOOR PLAN

STEP-1

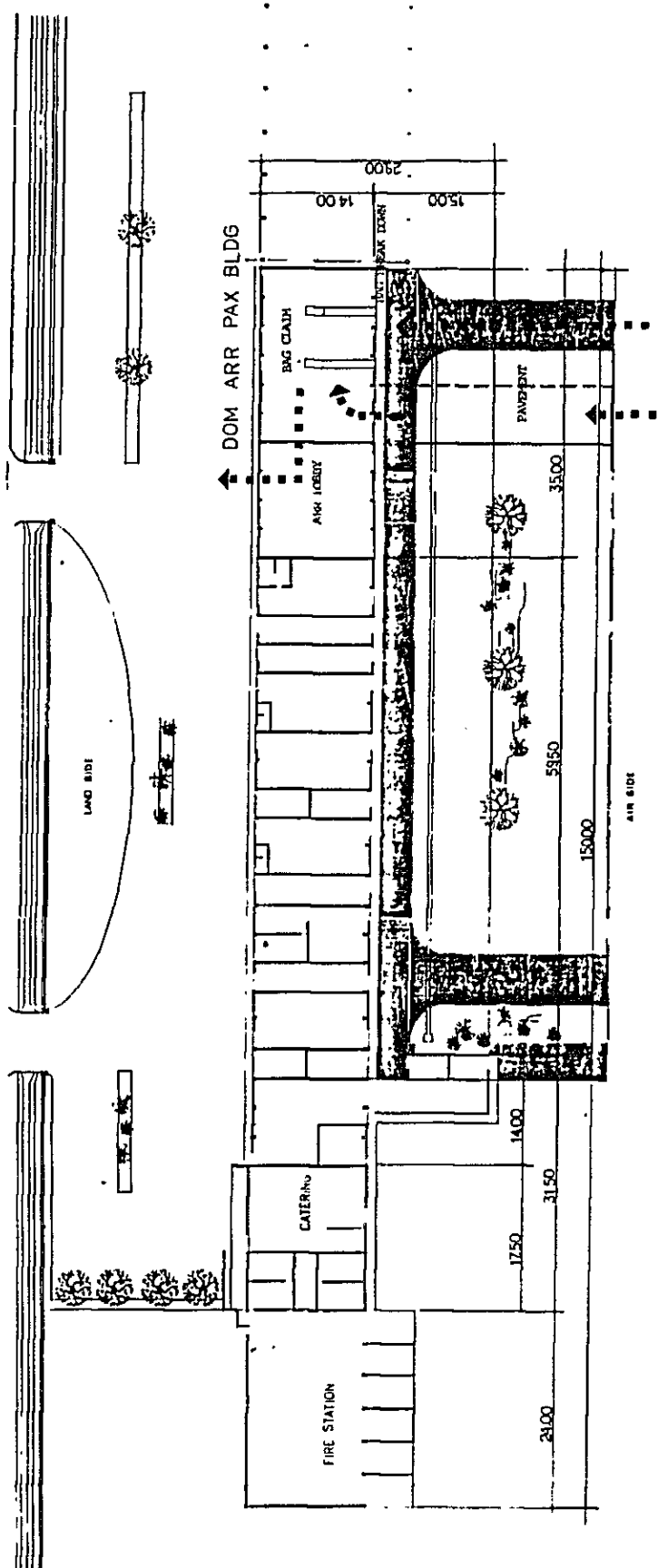
DOM PAX TERMINAL BLDG S=1/1000



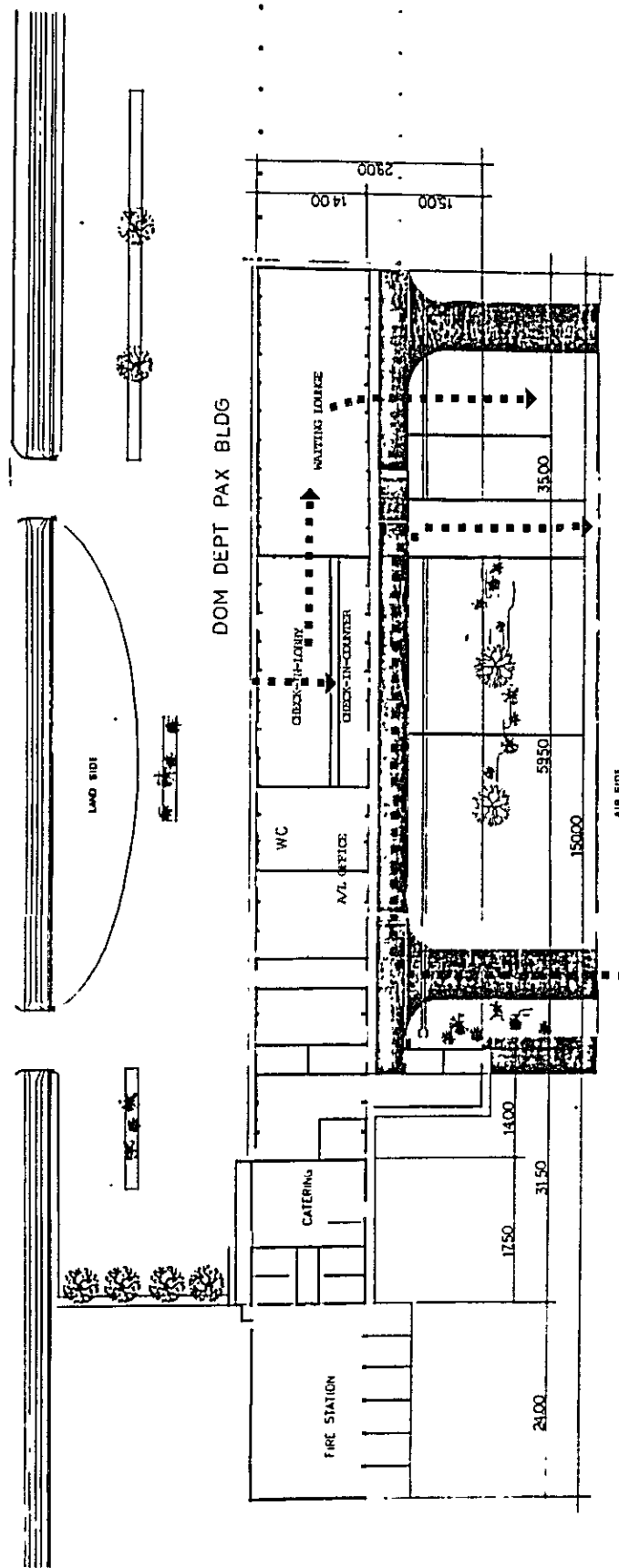
1ST. FLOOR PLAN

STEP-1

DOM PAX TERMINAL BLDG S=1/1000

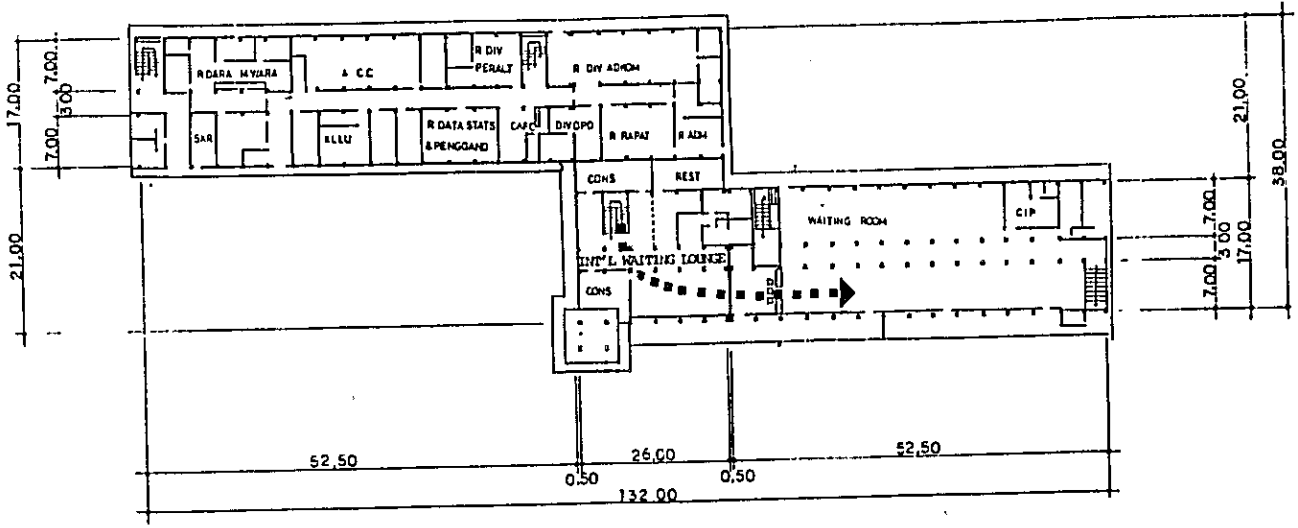


EXISTING CARGO TERMINAL BLDG ST131-1 S = 1/800



EXISTING CARGO TERMINAL BLDG SH-3 S=1/800

APPENDIX 11.3.6

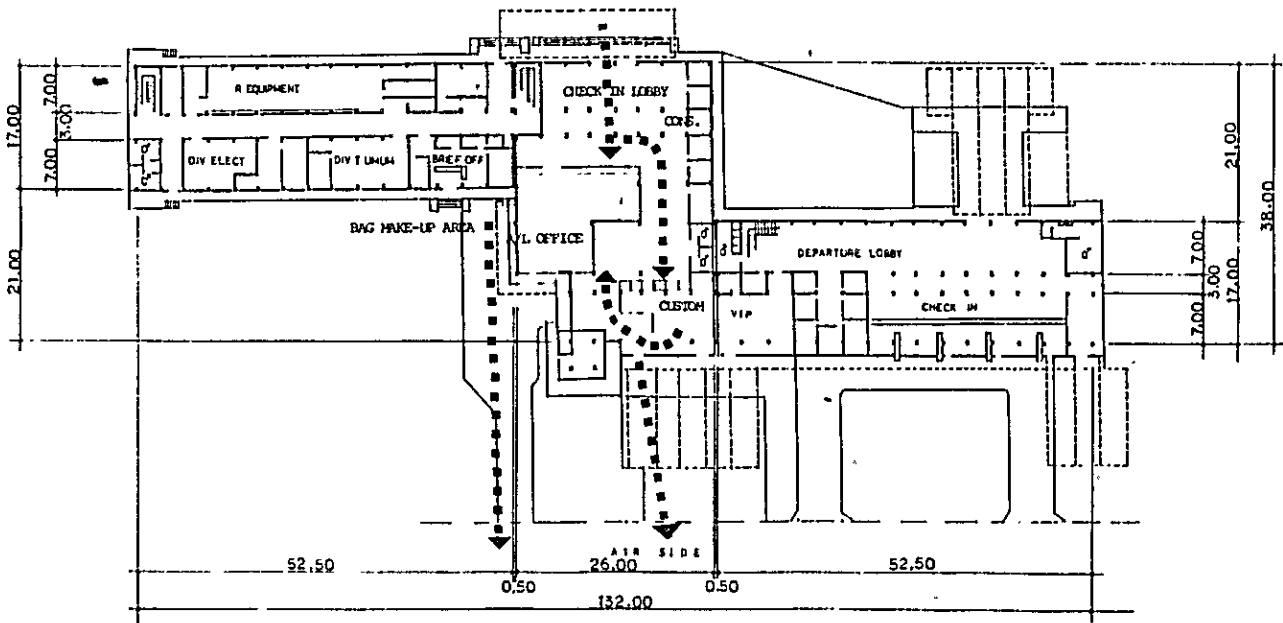


2ND. FLOOR PLAN

STLP-4

DOM PAX TERMINAL BLDG S=1/1000

INT'L DEPT PAX BLDG
LAND SIDE



1ST. FLOOR PLAN

STLP-4

DOM PAX TERMINAL BLDG S=1/1000

Break- down of Major Arch. Construction Cost of INT'L and
DOM. Pax. Terminal Buildings in the year 1990 Development Plan

Break- down of the construction cost

Name of Bldg.	Floor Area (M2)	Construc- tion (Million R.p)	Remarks
[INT'L Pax.Terminal Building]			
Dep. Terminal (New construction)	10,700	6,227.4	
Arr. Terminal (Enlargement construction)	2,200	1,280.4	Including DOM. Arr.Pax. Terminal
Ditto (Renovating construction)	6,070	2,651.0	
Total	18,970	10,158.8	
[DOM. Pax.Terminal Building]			DOM.Depature Pax. Terminal only
Dep.Terminal (Renovating construction)	3,350	974.9	
Awning parts (Enlargement construction)	1,185	75.7	
Total	4,535	1,050.5	

Note: DOM. Arrival Pax.Terminal Building is included in
INT'L Arrival Pax.Terminal Building Shown in Dwg.
9.6.1 - 4 of the main study Report

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APPENDIX TO CHAPTER 12



ECONOMIC ANALYSIS

CASE (A-1) CONSTRUCTION COST UP 0. %

YEAR	C O S T		B E N E F I T S				TOTAL BENEFIT	
	CONSTRUC TION COST	O & M	SAVED D & W	TOTAL COST	FORNIGN EXCHANGE BENEFIT	AIRPORT OPERATION (AIR)		AIRPORT OPERATION (LAND)
1982	204.0	0.	0.	204.0	0.	0.	0.	0.
1983	1168.0	0.	0.	1168.0	0.	0.	0.	0.
1984	5967.0	0.	0.	5967.0	0.	0.	0.	0.
1985	16583.0	0.	0.	16583.0	0.	0.	0.	0.
1986	6796.0	921.0	0.	7717.0	1156.0	311.0	17.0	1484.0
1987	792.0	921.0	0.	1213.0	3165.0	456.0	47.0	3668.0
1988	1071.0	921.0	0.	1213.0	4990.0	498.0	74.0	5562.0
1989	1978.0	921.0	0.	11533.0	6816.0	534.0	101.0	7456.0
1990	1978.0	921.0	0.	19999.0	9048.0	580.0	184.0	9762.0
1991	1117.0	1365.0	0.	12455.0	10873.0	631.0	161.0	11665.0
1992	0.	1345.0	0.	1345.0	12902.0	689.0	191.0	13782.0
1993	0.	1345.0	0.	1345.0	15133.0	749.0	224.0	16106.0
1994	0.	1345.0	0.	1345.0	17365.0	816.0	257.0	18438.0
1995	0.	3365.0	0.	3365.0	19799.0	890.0	293.0	20982.0
1996	0.	3441.0	0.	3441.0	27081.0	955.0	326.0	23312.0
1997	0.	1441.0	0.	1441.0	23856.0	1026.0	353.0	25235.0
1998	584.0	1441.0	0.	2025.0	27914.0	1101.0	413.0	29428.0
1999	633.0	1441.0	0.	7573.0	29942.0	1182.0	443.0	31567.0
2000	1543.0	1441.0	0.	16684.0	32782.0	1268.0	485.0	34535.0
2001	733.0	1668.0	0.	2399.0	35216.0	1343.0	521.0	37080.0
2002	0.	1668.0	0.	1668.0	38057.0	1422.0	563.0	40142.0
2003	0.	1668.0	0.	1668.0	40827.0	1508.0	593.0	42498.0
2004	0.	1668.0	0.	1668.0	43949.0	1595.0	650.0	46184.0
2005	0.	1714.0	0.	4066.0	47185.0	1690.0	698.0	49573.0
2006	0.	1714.0	0.	1714.0	50228.0	1784.0	743.0	52755.0
2007	0.	1714.0	0.	1714.0	53476.0	1885.0	791.0	56150.0
2008	0.	1714.0	0.	1714.0	56720.0	1991.0	834.0	59550.0
2009	0.	1714.0	0.	1714.0	60371.0	2103.0	893.0	63367.0
2010	0.	1714.0	0.	1714.0	64428.0	2222.0	953.0	67603.0

NPV = 70390.989
 IRR = 2.2261
 NPV = 20753.690
 IRR = 1.4940
 NPV = 1697.190
 IRR = 1.0522

CASE(R-1) CONSTRUCTION COST UP 0. %

DISCOUNT RATIO	10 %		15 %		20 %		20.8 %	
	COST	BENEFIT	COST	BENEFIT	COST	BENEFIT	COST	BENEFIT
1982	204.0	0.	204.0	0.	204.0	0.	204.0	0.
1983	1061.8	0.	1015.7	0.	973.3	0.	967.0	0.
1984	4931.4	0.	4511.9	0.	4143.7	0.	4089.8	0.
1985	12459.1	0.	10903.6	0.	9596.6	0.	9409.9	0.
1986	5270.8	1013.6	4412.2	848.5	3721.5	715.7	3675.3	697.2
1987	753.2	2277.5	603.1	1823.6	487.5	1474.1	471.8	1426.6
1988	684.7	3139.6	526.4	2404.6	406.2	1862.7	390.6	1790.9
1989	5918.3	3826.1	4335.7	2803.0	3218.6	2080.8	3074.4	1987.6
1990	9320.7	4554.0	6537.7	3191.2	4651.1	2270.3	4413.7	2154.4
1991	5282.1	4947.1	3540.5	3315.9	2613.9	2260.8	2775.7	2131.3
1992	518.6	5313.6	332.5	3406.7	217.2	2225.9	203.5	2084.8
1993	471.4	5645.1	289.1	3461.9	181.0	2167.7	168.4	2017.0
1994	428.6	5874.9	251.4	3446.2	150.9	2067.9	139.4	1911.6
1995	968.9	6077.7	543.7	3410.7	312.6	1961.1	287.1	1801.0
1996	379.5	6138.8	203.7	3294.7	112.2	1815.7	102.4	1656.6
1997	414.9	6041.1	213.0	3101.2	112.5	1637.9	102.0	1484.6
1998	440.7	6404.4	216.4	3144.8	109.5	1591.7	98.6	1433.3
1999	1498.3	6245.4	703.7	2933.4	341.3	1422.8	305.4	1272.9
2000	3000.8	6211.4	1348.2	2790.6	626.7	1297.2	557.0	1152.9
2001	1536.8	6062.9	660.4	2605.4	294.2	1160.6	259.8	1024.8
2002	247.6	5952.0	101.8	2446.6	43.5	1044.5	38.1	916.2
2003	225.1	5810.3	88.5	2284.5	56.2	934.6	31.6	814.5
2004	204.7	5673.5	77.0	2133.7	50.2	836.6	26.1	724.3
2005	454.1	5536.2	163.3	1991.6	61.4	748.3	57.8	643.7
2006	174.0	5356.0	59.9	1843.0	21.6	663.6	18.4	567.1
2007	158.2	5182.4	52.1	1705.7	18.0	588.6	15.3	499.7
2008	143.8	4996.6	45.3	1573.0	15.0	520.2	12.6	438.7
2009	130.7	4833.5	39.4	1455.5	12.5	461.3	10.5	386.5
2010	118.9	4687.8	34.2	1350.3	10.4	410.1	8.7	341.4
TOTAL	57410.5	127801.5	42012.1	62765.8	32523.4	34220.6	31359.7	31359.7

CASE(R-1) CONSTRUCTION COST UP 10.0%

CONSTRUC TION YEAR	C O S T		B E N E F I T S				TOTAL BENEFIT
	O & M	SAVED O & M	TOTAL COST	FORIGN EXCHANGE BENEFIT	AIRPORT OPERATION (AIR)	AIRPORT OPERATION (LAND)	
1982	224.4	0.	224.4	0.	0.	0.	0.
1983	1284.8	0.	1284.8	0.	0.	0.	0.
1984	6563.7	0.	6563.7	0.	0.	0.	0.
1985	18241.3	0.	18241.3	0.	0.	0.	0.
1986	7475.6	921.0	8396.6	1156.0	311.0	17.0	1484.0
1987	321.2	921.0	1242.2	3165.0	456.0	74.0	3668.0
1988	321.2	921.0	1242.2	4990.0	498.0	67.0	5562.0
1989	11673.2	921.0	12594.2	6816.0	539.0	101.0	7454.0
1990	20985.8	921.0	21906.8	9048.0	580.0	134.0	9762.0
1991	12221.0	1345.0	13566.0	10873.0	631.0	161.0	11665.0
1992	0.	1345.0	1345.0	12902.0	689.0	191.0	13782.0
1993	0.	1345.0	1345.0	15133.0	749.0	224.0	16106.0
1994	0.	1345.0	1345.0	17365.0	816.0	237.0	18438.0
1995	0.	3345.0	3345.0	19799.0	890.0	293.0	20982.0
1996	0.	1441.0	1441.0	22031.0	955.0	326.0	23312.0
1997	321.2	1441.0	1762.2	23856.0	1026.0	353.0	25235.0
1998	642.4	1441.0	2083.4	27914.0	1101.0	413.0	29428.0
1999	6745.2	1441.0	8186.2	29942.0	1182.0	443.0	31567.0
2000	14767.3	1441.0	18208.3	32782.0	1268.0	485.0	34535.0
2001	8506.3	1666.0	10172.3	35216.0	1343.0	521.0	37080.0
2002	0.	1666.0	1666.0	38057.0	1422.0	563.0	40042.0
2003	0.	1666.0	1666.0	40897.0	1508.0	593.0	42998.0
2004	0.	1666.0	1666.0	43939.0	1595.0	650.0	46184.0
2005	0.	4066.0	4066.0	47185.0	1690.0	698.0	49573.0
2006	0.	1714.0	1714.0	50238.0	1785.0	743.0	52755.0
2007	0.	1714.0	1714.0	53474.0	1885.0	791.0	56150.0
2008	0.	1714.0	1714.0	56720.0	1991.0	839.0	59550.0
2009	0.	1714.0	1714.0	60371.0	2103.0	893.0	63567.0
2010	0.	1714.0	1714.0	64428.0	2222.0	953.0	67603.0

DISCOUNT RATIO = 10.0 R/C RATIO = 2.0540 NPV = 65579.216

DISCOUNT RATIO = 15.0 B/C RATIO = 1.3742 NPV = 17091.728

DISCOUNT RATIO = 20.0 O/C RATIO = 0.9658 NPV = -1213.161

FIRR(%) = 19.4731

CASE(R-1) CONSTRUCTION COST UP 10.0%

DISCOUNT RATIO	10 %		15 %		20 %		19.5%	
	COST	BENEFIT	COST	BENEFIT	COST	BENEFIT	COST	BENEFIT
1982	224.4	0.	224.4	0.	224.4	0.	224.4	0.
1983	1168.0	0.	1117.2	0.	1070.7	0.	1075.4	0.
1984	5424.5	0.	4963.1	0.	4558.1	0.	4598.4	0.
1985	15705.0	0.	11994.0	0.	10556.3	0.	10696.6	0.
1986	5735.0	1013.6	4800.8	848.5	4049.3	715.7	4121.7	728.4
1987	771.3	2277.5	617.6	1823.6	499.2	1474.1	510.3	1506.9
1988	701.2	3139.6	537.0	2404.6	416.0	1862.7	427.1	1912.5
1989	6462.8	5826.1	4734.6	2803.0	3514.8	2080.8	3624.8	2145.9
1990	10219.7	4554.0	7161.4	3191.2	5094.8	2270.3	5277.4	2351.7
1991	5753.3	4947.1	3856.3	3315.9	2629.2	2260.8	2735.4	2352.1
1992	518.6	5313.6	332.5	3406.7	217.2	2225.9	227.0	2326.0
1993	471.4	5645.1	289.1	3461.9	181.0	2367.7	190.0	2275.2
1994	628.6	5874.9	251.4	3446.2	150.9	2067.9	159.0	2180.1
1995	968.9	6077.7	543.7	3410.2	312.6	1961.1	331.0	2076.5
1996	379.5	6158.8	203.7	3294.7	112.7	1815.7	119.4	1931.1
1997	421.9	6041.1	216.6	3101.2	114.4	1637.9	122.2	1749.7
1998	453.4	6404.4	222.6	3144.8	117.7	1591.7	120.9	1707.8
1999	1619.6	6245.4	760.7	2933.4	369.0	1422.8	397.6	1533.4
2000	3274.9	6211.4	1471.3	2790.6	683.9	1297.2	740.3	1404.1
2001	1663.3	6062.9	714.8	2605.4	318.4	1160.6	346.2	1261.8
2002	247.6	5952.0	101.8	2446.6	43.5	1044.5	47.5	1140.5
2003	225.1	5810.3	88.5	2284.5	36.2	934.6	39.7	1025.1
2004	204.7	5673.5	77.0	2133.7	30.2	836.6	33.2	921.6
2005	454.1	5536.2	163.3	1991.6	61.4	748.3	67.9	828.0
2006	174.0	5356.0	59.9	1843.0	21.6	663.6	24.0	737.5
2007	158.2	5182.4	57.1	1705.7	18.0	588.6	20.1	657.0
2008	143.8	4996.6	45.3	1573.0	15.0	520.2	16.8	583.3
2009	130.7	4833.5	39.4	1455.5	12.5	461.3	14.1	519.5
2010	118.9	4687.8	34.7	1350.3	10.4	410.1	11.8	463.9
TOTAL	62222.3	127801.5	45676.1	62765.8	35633.8	54220.6	36319.6	36319.6

CASE (B-1) CONSTRUCTION COST UP 20.0%

CONSTRUCTION COST	C O S T		B E N E F I T S				TOTAL BENEFIT
	O & M	SAVED O & M	TOTAL COST	FOREIGN EXCHANGE BENEFIT	AIRPORT OPERATION (AIR)	AIRPORT OPERATION (LAW)	
1982	744.8	0.	244.8	0.	0.	0.	0.
1983	1401.6	0.	1401.6	0.	0.	0.	0.
1984	7160.4	0.	7160.4	0.	0.	0.	0.
1985	19899.6	0.	19899.6	0.	0.	0.	0.
1986	8155.2	921.0	9076.2	1156.0	311.0	17.0	1484.0
1987	350.4	921.0	1271.4	3165.0	456.0	47.0	3668.0
1988	350.4	921.0	1271.4	4990.0	498.0	74.0	5562.0
1989	12734.4	921.0	13655.4	6816.0	539.0	101.0	7456.0
1990	22825.6	921.0	23746.6	9048.0	580.0	134.0	9762.0
1991	13332.0	1345.0	14677.0	10875.0	631.0	161.0	11665.0
1992	0.	1345.0	1345.0	12902.0	689.0	191.0	13782.0
1993	0.	1345.0	1345.0	15135.0	749.0	224.0	16106.0
1994	0.	1345.0	1345.0	17365.0	816.0	257.0	18438.0
1995	0.	3345.0	3345.0	10799.0	890.0	293.0	20982.0
1996	0.	1441.0	1441.0	22031.0	955.0	326.0	23312.0
1997	350.4	1441.0	1791.4	23856.0	1026.0	353.0	25235.0
1998	700.8	1441.0	2141.8	27914.0	1101.0	413.0	29428.0
1999	7558.4	1441.0	8799.4	29942.0	1182.0	443.0	31567.0
2000	18291.6	1441.0	19732.6	32782.0	1268.0	485.0	34535.0
2001	9279.6	1666.0	10945.6	35216.0	1343.0	521.0	37080.0
2002	0.	1666.0	1666.0	38057.0	1422.0	563.0	40042.0
2003	0.	1666.0	1666.0	40897.0	1508.0	593.0	42998.0
2004	0.	1666.0	1666.0	43939.0	1595.0	650.0	46184.0
2005	0.	4096.0	4096.0	47185.0	1690.0	698.0	49573.0
2006	0.	1714.0	1714.0	50228.0	1784.0	743.0	52755.0
2007	0.	1714.0	1714.0	53474.0	1885.0	791.0	56150.0
2008	0.	1714.0	1714.0	56720.0	1991.0	839.0	59550.0
2009	0.	1714.0	1714.0	60371.0	2103.0	893.0	63567.0
2010	0.	1714.0	1714.0	64428.0	2222.0	953.0	67603.0

DISCOUNT RATIO = 10.0 B/C RATIO = 1.9065 NPV = 60767.443

DISCOUNT RATIO = 15.0 R/C RATIO = 1.2722 NPV = 13429.766

DISCOUNT RATIO = 20.0 R/C RATIO = 0.8925 NPV = -4123.513

EIRP (%) = 18.3161

CASE (R-1) CONSTRUCTION COST UP 20.0%

DISCOUNT RATIO	10 %		15 %		20 %		18.3%	
	COST	BENEFIT	COST	BENEFIT	COST	BENEFIT	COST	BENEFIT
1982	244.8	0.	244.8	0.	244.8	0.	244.8	0.
1983	1274.7	0.	1218.8	0.	1168.0	0.	1184.6	0.
1984	5917.7	0.	5614.3	0.	4972.5	0.	5115.0	0.
1985	14950.9	0.	13984.3	0.	11514.9	0.	12014.7	0.
1986	6189.2	1013.6	5189.3	848.5	4377.0	715.7	4631.6	757.3
1987	789.4	2277.5	632.1	1823.6	510.9	1474.1	548.4	1582.0
1988	717.7	3139.6	549.7	2604.6	425.8	1862.7	603.5	2027.5
1989	7007.4	5826.1	5133.6	2803.0	3811.0	2080.8	4207.2	2297.2
1990	11109.7	4554.0	7785.0	3191.2	5538.5	2270.3	6201.4	2542.1
1991	6224.5	4947.1	4172.1	3315.9	2844.5	2260.8	3750.3	2567.4
1992	518.6	5313.6	332.5	3406.7	217.2	2225.9	250.2	2563.7
1993	471.4	5645.1	289.1	3461.9	181.0	2167.7	211.5	2532.2
1994	428.6	5874.9	251.4	3446.2	150.9	2067.9	178.7	2450.1
1995	968.9	6077.7	543.7	3410.2	312.6	1961.1	375.7	2356.5
1996	379.5	6138.8	203.7	3294.7	117.2	1815.7	136.8	2212.9
1997	428.8	6041.1	220.2	3101.2	116.3	1637.9	143.7	2024.6
1998	406.1	6404.4	228.9	3144.8	115.8	1591.7	145.2	1995.5
1999	1740.9	6245.4	817.7	2933.4	396.6	1422.8	504.3	1809.2
2000	5549.1	6211.4	1594.5	2790.6	741.2	1297.2	955.9	1672.9
2001	1789.7	6062.9	769.1	2605.4	342.6	1160.6	448.1	1518.1
2002	247.6	5952.0	101.8	2446.6	43.5	1044.5	57.6	1385.6
2003	225.1	5810.3	88.5	2284.5	36.2	934.6	48.7	1257.5
2004	204.7	5673.5	77.0	2133.7	50.2	836.6	41.2	1141.6
2005	654.1	5536.2	163.3	1991.6	61.4	748.3	84.9	1035.7
2006	174.0	5356.0	59.9	1843.0	21.6	663.6	50.3	931.6
2007	158.2	5182.4	52.1	1705.7	18.0	588.6	25.6	838.0
2008	143.8	4996.6	45.3	1573.0	15.0	520.2	21.6	751.2
2009	130.7	4833.5	39.4	1455.5	12.5	461.3	18.3	675.6
2010	118.9	4687.8	34.2	1350.3	10.4	410.1	15.4	609.2
TOTAL	67034.1	127801.5	49134.1	62765.8	38144.1	34220.6	41535.3	41535.3

FINANCIAL ANALYSIS

REVENUE UP 0.0%

YEAR	EXPENDITURE			REVENUE							TOTAL REV.	EXPENDITURE	REVENUE
	CAPITAL EXP.	CURRENT EXP.	TOTAL EXP.	LANDING CHARGE	FACILITY CHARGE	PASSENGER SERVICE	RENTAL FEE	TOTAL REV.					
1982	204.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0	
1983	1168.0	0.0	1168.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1031.9	0.0	
1984	5967.0	0.0	5967.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5120.2	0.0	
1985	16583.0	0.0	16583.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13131.2	0.0	
1986	6796.0	1090.0	7886.0	1330.0	557.0	1075.0	201.0	3163.0	5806.5	2328.9			
1987	292.0	1129.0	1421.0	1907.0	802.0	1185.0	217.0	4111.0	969.2	2803.9			
1988	292.0	1170.0	1462.0	2054.0	867.0	1305.0	231.0	4457.0	923.7	2316.0			
1989	10612.0	1211.0	11823.0	2327.0	931.0	1440.0	249.0	4947.0	6919.5	2895.3			
1990	19078.0	1256.0	20334.0	2667.0	1014.0	1590.0	272.0	5543.0	11023.9	3005.1			
1991	11110.0	1821.0	12931.0	2415.0	1062.0	1710.0	1013.0	6600.0	6493.9	3314.5			
1992	0.0	1882.0	1882.0	2972.0	1113.0	1835.0	1078.0	6998.0	875.5	3255.5			
1993	0.0	1945.0	1945.0	3130.0	1168.0	1970.0	1143.0	7416.0	838.2	3195.7			
1994	0.0	2012.0	2012.0	3296.0	1221.0	2115.0	1224.0	7856.0	803.1	3135.9			
1995	0.0	4091.0	4091.0	3427.0	1273.0	2270.0	1306.0	8316.0	1509.0	3075.0			
1996	0.0	2330.0	2330.0	3799.0	1366.0	2420.0	1373.0	8978.0	798.1	3075.2			
1997	292.0	2414.0	2706.0	4137.0	1459.0	2555.0	1432.0	9639.0	858.6	3058.4			
1998	534.0	2504.0	3038.0	4481.0	1554.0	2790.0	1570.0	10415.0	907.6	3061.1			
1999	6132.0	2596.0	8728.0	4829.0	1649.0	2945.0	1704.0	11127.0	2376.3	3029.4			
2000	15243.0	2692.0	17935.0	5182.0	1740.0	3140.0	1826.0	11888.0	4523.2	2998.2			
2001	7733.0	3081.0	10814.0	5595.0	1901.0	3320.0	2457.0	13273.0	2526.4	3100.9			
2002	0.0	3191.0	3191.0	6014.0	2057.0	3470.0	2613.0	14154.0	690.6	3063.1			
2003	0.0	3309.0	3309.0	6439.0	2212.0	3645.0	2780.0	15076.0	663.3	3022.2			
2004	0.0	3430.0	3430.0	6866.0	2368.0	3830.0	2957.0	16021.0	636.9	2975.1			
2005	0.0	5960.0	5960.0	7299.0	2524.0	4035.0	3145.0	17003.0	1025.2	2924.8			
2006	0.0	3830.0	3830.0	7643.0	2638.0	4230.0	3348.0	17859.0	610.3	2845.7			
2007	0.0	3977.0	3977.0	7994.0	2749.0	4440.0	3568.0	18751.0	587.0	2767.7			
2008	0.0	4133.0	4133.0	8350.0	2861.0	4650.0	3803.0	19064.0	565.1	2688.6			
2009	0.0	4295.0	4295.0	8712.0	2977.0	4835.0	4053.0	20627.0	544.0	2612.5			
2010	0.0	4465.0	4465.0	9081.0	3091.0	5155.0	4322.0	21629.0	523.9	2537.6			
TOTAL	102036.0	69104.0	171890.0	122396.0	43154.0	71985.0	47386.0	285511.0	73586.3	73586.2			

FINANCIAL ANALYSIS

REVENUE UP 30.0%

	EXPENDITURE			REVENUE							TOTAL REV.	EXPENDITURE	REVENUE
	CAPITAL EXP.	CURRENT EXP.	TOTAL EXP.	LANDING CHARGE	FACILITY CHARGE	PASSENGER SERVICE	RENTAL FEE	TOTAL REV.	EXPENDITURE	REVENUE			
1982	204.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0	0.0	
1983	1168.0	0.0	1168.0	0.0	0.0	0.0	0.0	0.0	0.0	1031.5	0.0	0.0	
1984	5767.0	0.0	5967.0	0.0	0.0	0.0	0.0	0.0	0.0	4726.1	0.0	0.0	
1985	16583.0	0.0	16583.0	0.0	0.0	0.0	0.0	0.0	0.0	11689.3	0.0	0.0	
1986	6796.0	1090.0	7886.0	1729.0	724.1	1397.5	261.3	4111.9	4947.2	2579.6	2579.6	2579.6	
1987	272.0	1129.0	1421.0	2479.1	1042.6	1540.5	282.1	5344.3	793.4	2983.8	2983.8	2983.8	
1988	292.0	1170.0	1462.0	2670.2	1127.1	1696.5	300.3	5794.0	726.4	2877.0	2877.0	2877.0	
1989	10612.0	1211.0	11823.0	3025.1	1210.3	1872.0	323.7	6431.1	5228.2	2843.9	2843.9	2843.9	
1990	17073.0	1250.0	20334.0	3467.1	1318.2	2067.0	353.6	7205.9	8002.5	2835.9	2835.9	2835.9	
1991	11110.0	1821.0	12931.0	3659.5	1330.6	2223.0	1316.9	8580.0	4529.1	3005.2	3005.2	3005.2	
1992	0.0	1302.0	1382.0	3863.6	1446.9	2385.5	1401.4	9097.4	586.6	2835.8	2835.8	2835.8	
1993	0.0	1945.0	1945.0	4069.0	1518.4	2561.0	1492.6	9640.8	539.6	2674.5	2674.5	2674.5	
1994	0.0	2012.0	2012.0	4284.8	1587.3	2749.5	1591.2	10212.8	496.7	2521.4	2521.4	2521.4	
1995	0.0	4031.0	4031.0	4507.1	1654.9	2951.0	1697.8	10810.8	896.7	2375.4	2375.4	2375.4	
1996	0.0	2330.0	2330.0	4938.7	1775.3	3146.0	1810.9	11671.4	455.6	2282.3	2282.3	2282.3	
1997	272.0	2414.0	2706.0	5378.1	1896.7	3321.5	1934.4	12530.7	470.9	2180.3	2180.3	2180.3	
1998	584.0	2504.0	3088.0	5925.3	2020.2	3627.0	2067.0	13539.5	478.3	2097.1	2097.1	2097.1	
1999	6172.0	2596.0	8768.0	6277.7	2143.7	3828.5	2215.2	14465.1	1203.1	1993.9	1993.9	1993.9	
2000	15243.0	2692.0	17935.0	6736.6	2262.0	4082.0	2373.8	15254.4	2200.2	1895.9	1895.9	1895.9	
2001	7733.0	3031.0	10814.0	7273.5	2471.3	4316.0	3194.1	17254.9	1180.6	1883.8	1883.8	1883.8	
2002	0.0	3191.0	3191.0	7818.2	2674.1	4511.0	3396.9	18400.2	310.1	1787.8	1787.8	1787.8	
2003	0.0	3309.0	3309.0	8370.7	2875.6	4738.5	3614.0	19598.8	286.1	1694.8	1694.8	1694.8	
2004	0.0	3430.0	3430.0	8925.8	3078.4	4979.0	3844.1	20827.3	264.0	1602.3	1602.3	1602.3	
2005	0.0	5900.0	5900.0	9488.7	3281.2	5245.5	4088.5	22103.9	408.2	1513.9	1513.9	1513.9	
2006	0.0	3630.0	3630.0	9955.9	3429.4	5499.0	4352.4	23216.7	233.5	1415.2	1415.2	1415.2	
2007	0.0	3977.0	3977.0	10392.2	3573.7	5772.0	4638.4	24376.3	215.7	1322.4	1322.4	1322.4	
2008	0.0	4133.0	4133.0	10655.0	3719.3	6045.0	4943.9	25563.2	199.5	1234.2	1234.2	1234.2	
2009	0.0	4705.0	4705.0	11325.6	3870.1	6350.5	5268.9	26815.1	184.5	1152.2	1152.2	1152.2	
2010	0.0	4465.0	4465.0	11805.3	4018.3	6075.5	5618.6	28117.7	170.7	1075.2	1075.2	1075.2	
TOTAL	102086.0	69604.0	171890.0	159101.9	56100.3	93580.5	62331.9	371164.7	52666.6	52666.6	52666.6	52666.6	

FINANCIAL ANALYSIS

REVENUE UP 40.0%

*	EXPENDITURE			REVENUE						* FIRR = 13.7038%	
	CAPITAL EXP.	CURRENT EXP.	TOTAL EXP.	LANDING CHARGE	FACILITY CHARGE	PASSENGER SERVICE	RENTAL FEE	TOTAL REV.	EXPENDITURE	REVENUE	
1982	204.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0	
1983	1198.0	0.0	1198.0	0.0	0.0	0.0	0.0	0.0	1027.2	0.0	
1984	5967.0	0.0	5967.0	0.0	0.0	0.0	0.0	0.0	4615.4	0.0	
1985	16533.0	0.0	16533.0	0.0	0.0	0.0	0.0	0.0	11280.7	0.0	
1986	6796.0	1090.0	7886.0	1867.0	779.8	1505.0	281.4	4428.2	4718.0	2649.3	
1987	292.0	1129.0	1421.0	2669.8	1122.8	1659.0	303.8	5755.4	747.7	3028.3	
1988	292.0	1170.0	1462.0	2875.6	1213.8	1827.0	323.4	6239.8	676.5	2887.5	
1989	10612.0	1211.0	11823.0	3257.8	1303.4	2016.0	348.6	6925.8	4811.7	2818.7	
1990	19078.0	1256.0	20334.0	3733.8	1419.6	2226.0	380.8	7760.2	7278.2	2777.6	
1991	11110.0	1821.0	12931.0	5941.0	1486.8	2394.0	1418.2	9240.0	4070.6	2908.7	
1992	0.0	1852.0	1852.0	4160.8	1558.2	2569.0	1509.2	9797.2	521.0	2712.4	
1993	0.0	1945.0	1945.0	4362.0	1655.2	2758.0	1607.2	10382.4	473.6	2523.0	
1994	0.0	2012.0	2012.0	4614.4	1709.4	2951.0	1713.6	10998.4	430.9	2355.2	
1995	0.0	4051.0	4051.0	4853.8	1782.2	3178.0	1828.4	11642.4	763.6	2192.9	
1996	0.0	2330.0	2330.0	5318.9	1912.4	3383.0	1950.2	12569.2	385.9	2031.9	
1997	292.0	2414.0	2706.0	5791.3	2042.6	3577.0	2033.2	13494.6	394.2	1905.1	
1998	524.0	2504.0	3028.0	6273.4	2175.6	3706.0	2226.0	14581.0	395.0	1883.0	
1999	6132.0	2595.0	8727.0	9750.5	2306.6	4123.0	2385.6	15577.3	953.4	1755.2	
2000	35243.0	2692.0	37935.0	7254.8	2456.0	4398.0	2556.4	16643.2	1777.3	1649.2	
2001	7733.0	3061.0	10794.0	7333.0	2601.4	4643.0	3439.8	13552.2	942.5	1614.5	
2002	0.0	3121.0	3121.0	8419.6	2879.6	4858.0	3558.2	19815.6	244.6	1518.3	
2003	0.0	3309.0	3309.0	9014.6	3096.8	5103.0	3872.0	21106.4	223.1	1422.3	
2004	0.0	3430.0	3430.0	9612.4	3315.2	5362.0	4139.8	22429.4	203.3	1327.7	
2005	0.0	3960.0	3960.0	10218.6	3533.6	5649.0	4403.0	23294.2	310.8	1741.2	
2006	0.0	3950.0	3950.0	10700.2	3693.2	5922.0	4687.2	25002.6	175.6	1146.5	
2007	0.0	3977.0	3977.0	11191.5	3848.6	6216.0	4995.2	26251.4	160.4	1058.7	
2008	0.0	4133.0	4133.0	11690.0	4005.4	6310.0	5324.2	27527.6	140.6	976.4	
2009	0.0	4295.0	4295.0	12196.8	4167.8	6839.0	5674.2	28877.8	134.0	900.8	
2010	0.0	4465.0	4465.0	12713.4	4327.4	7189.0	6050.8	30280.6	122.5	830.7	
TOTAL	102036.0	69804.0	171840.0	171340.6	60415.7	100779.1	67180.5	399715.9	48223.8	48223.6	

FINANCIAL ANALYSIS

REVENUE UP 50.0%

YEAR	EXPENDITURE			REVENUE										TOTAL REVENUE
	CAPITAL EXP.	CURRENT EXP.	TOTAL EXP.	LANDING CHARGE	FACILITY CHARGE	PASSENGER SERVICE	RENTAL FEE	TOTAL REV.	EXPENDITURE	FIRR = 15.0014%				
1982	204.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0	0.0		
1983	1158.0	0.0	1158.0	0.0	0.0	0.0	0.0	0.0	0.0	1015.6	0.0	0.0		
1984	5967.0	0.0	5967.0	0.0	0.0	0.0	0.0	0.0	0.0	4511.8	0.0	0.0		
1985	16583.0	0.0	16583.0	0.0	0.0	0.0	0.0	0.0	0.0	10903.2	0.0	0.0		
1986	6796.0	1090.0	7886.0	1995.0	835.5	1612.5	301.5	4744.5	4508.6	2712.5	2712.5	2712.5		
1987	292.0	1129.0	1421.0	2880.5	1203.0	1777.5	325.5	6166.5	706.4	3065.6	3065.6	3065.6		
1988	292.0	1170.0	1462.0	3081.0	1300.5	1957.5	346.5	6685.5	632.0	2890.1	2890.1	2890.1		
1989	10512.0	1211.0	11823.0	3490.5	1396.5	2160.0	373.5	7420.5	4444.3	2789.4	2789.4	2789.4		
1990	19078.0	1256.0	20334.0	4000.5	1521.0	2385.0	408.0	8314.5	6646.5	2717.7	2717.7	2717.7		
1991	11110.0	1821.0	12931.0	4222.5	1593.0	2565.0	1519.5	9900.0	3675.4	2813.9	2813.9	2813.9		
1992	0.0	1852.0	1852.0	4458.0	1669.5	2752.5	1617.0	10497.0	465.1	2594.4	2594.4	2594.4		
1993	0.0	1045.0	1045.0	4695.0	1752.0	2955.0	1722.0	11124.0	418.0	2390.7	2390.7	2390.7		
1994	0.0	2012.0	2012.0	4944.0	1831.5	3172.5	1836.0	11784.0	376.0	2202.2	2202.2	2202.2		
1995	0.0	4021.0	4021.0	5200.5	1909.5	3405.0	1959.0	12474.0	663.2	2027.0	2027.0	2027.0		
1996	0.0	2330.0	2330.0	5698.5	2049.0	3630.0	2089.5	13467.0	329.2	1902.9	1902.9	1902.9		
1997	292.0	2414.0	2706.0	6205.5	2188.5	3832.5	2232.0	14458.5	332.5	1776.5	1776.5	1776.5		
1998	534.0	2504.0	3038.0	6721.5	2331.0	4135.0	2385.0	15622.5	329.9	1669.2	1669.2	1669.2		
1999	6132.0	2594.0	8726.0	7243.5	2473.5	4417.5	2556.0	16690.5	810.9	1550.6	1550.6	1550.6		
2000	15243.0	2692.0	17935.0	7773.0	2610.0	4710.0	2739.0	17832.0	1448.9	1440.6	1440.6	1440.6		
2001	7733.0	3081.0	10814.0	8392.5	2851.5	4980.0	3685.5	19909.5	759.7	1398.6	1398.6	1398.6		
2002	0.0	3191.0	3191.0	9021.0	3085.5	5205.0	3919.5	21231.0	194.9	1296.9	1296.9	1296.9		
2003	0.0	3309.0	3309.0	9658.5	3318.0	5467.5	4170.0	22614.0	175.8	1201.2	1201.2	1201.2		
2004	0.0	3430.0	3430.0	10299.0	3552.0	5745.0	4435.5	24031.5	158.4	1110.0	1110.0	1110.0		
2005	0.0	5960.0	5960.0	10948.5	3786.0	6032.5	4717.5	25504.5	239.4	1024.3	1024.3	1024.3		
2006	0.0	3330.0	3330.0	11464.5	3957.0	6345.0	5022.0	26788.5	133.8	935.5	935.5	935.5		
2007	0.0	3977.0	3977.0	11991.0	4123.5	6660.0	5352.0	28126.5	120.8	854.1	854.1	854.1		
2008	0.0	4133.0	4133.0	12525.0	4291.5	6975.0	5704.5	29496.0	109.1	778.9	778.9	778.9		
2009	0.0	4295.0	4295.0	13068.0	4465.5	7327.5	6079.5	30940.5	98.6	710.5	710.5	710.5		
2010	0.0	4465.0	4465.0	13621.5	4636.5	7702.5	6483.0	32463.5	89.2	647.8	647.8	647.8		
TOTAL	102086.0	69204.0	171890.0	183579.1	64731.1	107977.6	71979.1	428267.0	44501.2	44501.2	44501.2	44501.2		

Economic and Financial Analysis on Alternative Construction Schedules

(1) General

Based upon a request from the government of Indonesia; DGAC, the economic and the financial analysis for two cases was studied to evaluate the feasibility of the project. It is also understood that the study is not only a reference study, but actually a sensitivity analysis for the feasibility of the project.

Two cases are discussed below.

Case-1. This construction schedule is planned to be executed for four years from April 1984 (See the Fig 11.1.1; construction schedule in Chapter 11 of the main study report). All works except architectural works are to be completed by March 1986, and thereafter, architectural works will commence starting in April 1986 and will be completed by March 1988.

Case-2. Engineering services such as basic and detailed design for the Short Term Plan are scheduled to be completed by March 1984 as referred to in Fig. 11.1.1 of the main study report. The construction schedule is postponed for two years from the original construction schedule as shown in Fig. 11.1.1, that is the construction schedule is to commence from April 1986 and be completed by March 1988.

(2) Economic Analysis

With regard to basic assumptions, the construction costs, Operation and Maintenance costs and benefits have been calculated based on the same procedure outlined in Chapter 12 of the main study report. The results of the economic Analyses shown in Tables 1-1, and 1-2 are as follows:

Case-1. EIRR	: 22.5%
B/C based on 15% discount rate:	1.6%
Net benefit based on 15% discount rate	: 23,522 million Rp
Case-2. EIRR	: 23.4%
B/C based on 15% discount rate:	1.7%
Net benefit based on 15% discount rate	: 23,773 million Rp

Even though the construction will be delayed for cases 1 and 2, the project is still considered economically feasible as stated in the economic analysis in the main study report.

From passenger service point of view, the passengers will receive poor services if the construction schedule is delayed more than considered for cases 1 and 2.

In other words, a negative benefit can be expected to be generated for the project. It is noted therefore, that if the timing of project execution is different from that of project need, the project will seem to be inadequate.

(3) Financial Analysis

With regard to basic assumptions, the components of expenditure and revenue for the financial analysis are also estimated in the same manner as mentioned in Chapter 12 of the main study report.

Case-1. The results of financial analyses shown in Tables 2-1, -2 and -3, are as follows:

- Table 2-1 The revenue as of Dec. 1981 FIRR = 8.4%
- Table 2-2 The revenue increased by 40% FIRR=14.8%
- Table 2-3 The revenue increased by 50% FIRR=16.3%

Case-2. The results of financial analyses shown in Tables 3-1, -2 and -3, are as follows:

- Table 3-1 The revenue as of Dec. 1981 FIRR = 7.9%
- Table 3-2 The revenue increased by 40% FIRR=13.7%
- Table 3-3 The revenue increased by 50% FIRR=15.1%

Based on the financial analyses mentioned above, it is recommended that the revenues be increased between 40 and 50% in order to adequately finance the project. The reasons for this are explained in Chapter 12 of the main study report.

TABLE 1.1

CASE(1ST.) CONSTRUCTION COST UP 0.0%

CONSTRUCTION COST	C O S T		SAVED O & M	TOTAL COST	F O R E I G N		A I R P O R T		D O M . P A X		TOTAL BENEFIT
	O & M	S T			B E N E F I T	B E N E F I T	O P E R A T I O N (L A N D)	O P E R A T I O N (A I R)	T I M E S A V E	B E N E F I T	
1982	204.0	0.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983	1168.0	0.0	0.0	1168.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984	1826.0	0.0	0.0	1826.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985	8235.0	0.0	0.0	8235.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986	9621.0	460.0	0.0	10081.0	1156.0	311.0	47.0	1484.0	0.0	0.0	1484.0
1987	8786.0	460.0	0.0	9246.0	3165.0	456.0	17.0	3668.0	0.0	0.0	3668.0
1988	1462.0	921.0	0.0	2383.0	4990.0	498.0	74.0	5562.0	0.0	0.0	5562.0
1989	10612.0	921.0	0.0	11533.0	6816.0	539.0	101.0	7456.0	0.0	0.0	7456.0
1990	19078.0	921.0	0.0	19999.0	9048.0	580.0	134.0	9762.0	0.0	0.0	9762.0
1991	11110.0	1345.0	0.0	12455.0	10873.0	631.0	161.0	11665.0	0.0	0.0	11665.0
1992	0.0	1345.0	0.0	1345.0	12902.0	689.0	191.0	13782.0	0.0	0.0	13782.0
1993	0.0	1345.0	0.0	1345.0	15133.0	749.0	224.0	16106.0	0.0	0.0	16106.0
1994	0.0	1345.0	0.0	1345.0	17365.0	816.0	257.0	18438.0	0.0	0.0	18438.0
1995	0.0	3345.0	0.0	3345.0	19799.0	890.0	293.0	20982.0	0.0	0.0	20982.0
1996	0.0	1441.0	0.0	1441.0	22031.0	955.0	326.0	23312.0	0.0	0.0	23312.0
1997	292.0	1441.0	0.0	1733.0	23856.0	1026.0	353.0	25235.0	0.0	0.0	25235.0
1998	584.0	1441.0	0.0	2025.0	27914.0	1101.0	413.0	29428.0	0.0	0.0	29428.0
1999	6132.0	1441.0	0.0	7573.0	29942.0	1182.0	443.0	31567.0	0.0	0.0	31567.0
2000	15243.0	1441.0	0.0	16684.0	32782.0	1268.0	485.0	34535.0	0.0	0.0	34535.0
2001	7733.0	1666.0	0.0	9399.0	35216.0	1343.0	521.0	37080.0	0.0	0.0	37080.0
2002	0.0	1666.0	0.0	1666.0	38057.0	1422.0	563.0	40042.0	0.0	0.0	40042.0
2003	0.0	1666.0	0.0	1666.0	40897.0	1508.0	593.0	42998.0	0.0	0.0	42998.0
2004	0.0	1666.0	0.0	1666.0	43939.0	1595.0	650.0	46184.0	0.0	0.0	46184.0
2005	0.0	4066.0	0.0	4066.0	47185.0	1690.0	698.0	49573.0	0.0	0.0	49573.0
2006	0.0	1714.0	0.0	1714.0	50228.0	1784.0	743.0	52755.0	0.0	0.0	52755.0
2007	0.0	1714.0	0.0	1714.0	53474.0	1885.0	791.0	56150.0	0.0	0.0	56150.0
2008	0.0	1714.0	0.0	1714.0	56720.0	1991.0	839.0	59550.0	0.0	0.0	59550.0
2009	0.0	1714.0	0.0	1714.0	60371.0	2103.0	893.0	63367.0	0.0	0.0	63367.0
2010	0.0	1714.0	0.0	1714.0	64428.0	2222.0	953.0	67603.0	0.0	0.0	67603.0

DISCOUNT RATIO = 10.0 B/C RATIO = 2.3245 NPV = 72821.750
 DISCOUNT RATIO = 15.0 B/C RATIO = 1.5994 NPV = 23522.812
 DISCOUNT RATIO = 20.0 B/C RATIO = 1.1570 NPV = 4643.781
 EIRR(%) = 22.5401

TABLE 1.2

CASE(2ND.) CONSTRUCTION COST UP 0.0%

CONSTRUCTION COST	C O S T		S A V E D		F O R E I G N		A I R P O R T		D O M . P A X		TOTAL BENEFIT
	O & M	O & M	O & M	O & M	EXCHANGE BENEFIT	OPERATION (AIR)	OPERATION (LAND)	OPERATION TIME	SAVE BENEFIT		
1982	204.0	0.0	0.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	0.0
1983	1168.0	0.0	0.0	0.0	1168.0	0.0	0.0	0.0	0.0	0.0	0.0
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986	5967.0	0.0	0.0	0.0	5967.0	0.0	0.0	0.0	0.0	0.0	0.0
1987	16875.0	0.0	0.0	0.0	16875.0	0.0	0.0	0.0	0.0	0.0	0.0
1988	7088.0	921.0	0.0	0.0	8009.0	4990.0	498.0	74.0	0.0	0.0	5562.0
1989	10612.0	921.0	0.0	0.0	11533.0	6816.0	539.0	101.0	0.0	0.0	7456.0
1990	19078.0	921.0	0.0	0.0	19999.0	9048.0	580.0	134.0	0.0	0.0	9762.0
1991	11110.0	1345.0	0.0	0.0	12455.0	10873.0	631.0	161.0	0.0	0.0	11665.0
1992	0.0	1345.0	0.0	0.0	1345.0	12902.0	689.0	191.0	0.0	0.0	13782.0
1993	0.0	1345.0	0.0	0.0	1345.0	15133.0	749.0	224.0	0.0	0.0	16106.0
1994	0.0	3345.0	0.0	0.0	3345.0	17365.0	816.0	257.0	0.0	0.0	18438.0
1995	0.0	3345.0	0.0	0.0	3345.0	19799.0	890.0	293.0	0.0	0.0	20982.0
1996	0.0	1441.0	0.0	0.0	1441.0	22031.0	955.0	326.0	0.0	0.0	23312.0
1997	292.0	1441.0	0.0	0.0	1733.0	23856.0	1026.0	353.0	0.0	0.0	25235.0
1998	584.0	1441.0	0.0	0.0	2025.0	27914.0	1101.0	413.0	0.0	0.0	29428.0
1999	6132.0	1441.0	0.0	0.0	7573.0	29942.0	1182.0	443.0	0.0	0.0	31567.0
2000	15243.0	1441.0	0.0	0.0	16684.0	32782.0	1268.0	485.0	0.0	0.0	34535.0
2001	7733.0	1666.0	0.0	0.0	9399.0	35216.0	1343.0	521.0	0.0	0.0	37080.0
2002	0.0	1666.0	0.0	0.0	1666.0	38057.0	1422.0	563.0	0.0	0.0	40042.0
2003	0.0	1666.0	0.0	0.0	1666.0	40897.0	1508.0	593.0	0.0	0.0	42998.0
2004	0.0	1666.0	0.0	0.0	1666.0	43939.0	1595.0	650.0	0.0	0.0	46184.0
2005	0.0	4066.0	0.0	0.0	4066.0	47185.0	1690.0	698.0	0.0	0.0	49573.0
2006	0.0	1714.0	0.0	0.0	1714.0	50228.0	1784.0	743.0	0.0	0.0	52755.0
2007	0.0	1714.0	0.0	0.0	1714.0	53474.0	1885.0	791.0	0.0	0.0	56150.0
2008	0.0	1714.0	0.0	0.0	1714.0	56720.0	1991.0	839.0	0.0	0.0	59550.0
2009	0.0	1714.0	0.0	0.0	1714.0	60371.0	2103.0	893.0	0.0	0.0	63367.0
2010	0.0	1714.0	0.0	0.0	1714.0	64428.0	2222.0	953.0	0.0	0.0	67603.0

DISCOUNT RATIO = 10.0 B/C RATIO = 2.3768 NPV = 72124.000
DISCOUNT RATIO = 15.0 B/C RATIO = 1.6545 NPV = 23773.000
DISCOUNT RATIO = 20.0 B/C RATIO = 1.2083 NPV = 5521.641
EIRR(%) = 23.4306

TABLE 2.1

FINANCIAL ANALYSIS

YEAR	EXPENDITURE		REVENUE										DISC = 15.0%	* FIRR = 8.445%
	CAPITAL EXP.	CURRENT EXP.	TOTAL EXP.	LANDING CHARGE	FACILITY CHARGE	PASSENGER SERVICE	RENTAL FEE	TOTAL REV.	EXPENDITURE	REVENUE	EXPENDITURE	REVENUE		
1982	204.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0	204.0	0.0
1983	1188.0	0.0	1188.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1015.7	0.0	1077.0	0.0
1984	1826.0	0.0	1826.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1380.7	0.0	1552.7	0.0
1985	8235.0	0.0	8235.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5414.6	0.0	6457.0	0.0
1986	9621.0	545.0	10166.0	1330.0	557.0	1075.0	0.0	2962.0	0.0	5812.4	1693.5	7350.3	2141.6	2141.6
1987	8736.0	565.0	9301.0	1907.0	802.0	1185.0	0.0	3894.0	0.0	4649.1	1936.0	6234.5	2596.2	2596.2
1988	1462.0	1170.0	2632.0	2054.0	867.0	1305.0	231.0	4457.0	0.0	1137.9	1926.9	1618.1	2740.1	2740.1
1989	10612.0	1211.0	11823.0	2327.0	931.0	1440.0	249.0	4947.0	0.0	4454.7	1859.8	6702.6	2804.5	2804.5
1990	19078.0	1256.0	20334.0	2667.0	1014.0	1590.0	272.0	5543.0	0.0	6647.2	1812.0	10629.9	2897.7	2897.7
1991	11110.0	1821.0	12931.0	2815.0	1062.0	1710.0	1013.0	6600.0	0.0	3675.8	1876.1	6233.4	3181.5	3181.5
1992	0.0	1882.0	1882.0	2972.0	1113.0	1835.0	1078.0	6998.0	0.0	465.2	1729.8	836.6	3110.7	3110.7
1993	0.0	1945.0	1945.0	3130.0	1168.0	1970.0	1148.0	7416.0	0.0	418.1	1594.0	797.2	3039.8	3039.8
1994	0.0	2012.0	2012.0	3296.0	1221.0	2115.0	1224.0	7856.0	0.0	376.1	1468.3	760.5	2969.3	2969.3
1995	0.0	4081.0	4081.0	3467.0	1273.0	2270.0	1306.0	8316.0	0.0	663.3	1511.6	1422.4	2998.4	2998.4
1996	0.0	2330.0	2330.0	3799.0	1366.0	2420.0	1393.0	8978.0	0.0	329.3	1268.9	748.8	2885.5	2885.5
1997	292.0	2414.0	2706.0	4137.0	1459.0	2555.0	1488.0	9639.0	0.0	332.6	1184.6	802.0	2856.6	2856.6
1998	584.0	2504.0	3088.0	4481.0	1554.0	2790.0	1590.0	10415.0	0.0	330.0	1113.0	843.9	2846.2	2846.2
1999	6132.0	2596.0	8728.0	4829.0	1649.0	2945.0	1704.0	11127.0	0.0	811.1	1034.0	2199.5	2804.0	2804.0
2000	15243.0	2692.0	17935.0	5182.0	1740.0	3140.0	1826.0	11888.0	0.0	1449.2	960.6	4167.6	2762.5	2762.5
2001	7733.0	3081.0	10814.0	3595.0	1901.0	3320.0	2457.0	13273.0	0.0	759.9	932.6	2317.2	2844.1	2844.1
2002	0.0	3191.0	3191.0	6014.0	2057.0	3470.0	2613.0	14154.0	0.0	195.0	864.8	630.5	2796.7	2796.7
2003	0.0	3309.0	3309.0	6439.0	2212.0	3645.0	2780.0	15076.0	0.0	175.8	801.0	602.9	2746.9	2746.9
2004	0.0	3430.0	3430.0	6866.0	2368.0	3830.0	2957.0	16021.0	0.0	158.5	740.2	576.3	2691.7	2691.7
2005	0.0	5960.0	5960.0	7299.0	2524.0	4035.0	3145.0	17003.0	0.0	234.4	683.1	923.4	2634.2	2634.2
2006	0.0	3830.0	3830.0	7643.0	2638.0	4230.0	3348.0	17859.0	0.0	133.8	623.9	547.2	2551.4	2551.4
2007	0.0	3977.0	3977.0	7994.0	2749.0	4440.0	3568.0	18751.0	0.0	120.8	569.6	523.9	2470.2	2470.2
2008	0.0	4133.0	4133.0	8350.0	2861.0	4650.0	3803.0	19664.0	0.0	109.2	519.4	502.1	2388.7	2388.7
2009	0.0	4295.0	4295.0	8712.0	2977.0	4885.0	4053.0	20627.0	0.0	98.7	473.8	481.1	2310.6	2310.6
2010	0.0	4465.0	4465.0	9081.0	3091.0	5135.0	4322.0	21629.0	0.0	89.2	432.0	461.2	2234.1	2234.1
TOTAL	102086.0	68695.0	170781.0	122386.0	43154.0	71985.0	47568.0	285093.0	0.0	41637.2	29449.7	68203.7	68203.4	68203.4

TABLE 2.2

FINANCIAL ANALYSIS

REVENUE UP 40.0%

YEAR	EXPENDITURE			REVENUE						DISC = 15.0%		FIRR = 14.7934%	
	CAPITAL EXP.	CURRENT EXP.	TOTAL EXP.	LANDING CHARGE	FACILITY CHARGE	PASSENGER SERVICE	RENTAL FEE	TOTAL REV.	EXPENDITURE	REVENUE	EXPENDITURE	REVENUE	
1982	204.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0	204.0	0.0	
1983	1768.0	0.0	1768.0	0.0	0.0	0.0	0.0	0.0	1015.7	0.0	1017.5	0.0	
1984	1826.0	0.0	1826.0	0.0	0.0	0.0	0.0	0.0	1380.7	0.0	1385.7	0.0	
1985	8235.0	0.0	8235.0	0.0	0.0	0.0	0.0	0.0	5414.6	0.0	5443.9	0.0	
1986	9621.0	545.0	10166.0	1862.0	779.8	1505.0	0.0	4146.8	5812.4	2371.0	5854.4	2388.7	
1987	8785.0	565.0	9350.0	2669.8	1122.8	1659.0	0.0	5451.6	4649.1	2710.4	4691.1	2734.9	
1988	1462.0	1170.0	2632.0	2875.6	1203.8	1827.0	323.4	6239.8	1137.9	2697.6	1150.2	2726.9	
1989	10612.0	1211.0	11823.0	3257.8	1303.4	2016.0	348.6	6925.8	4444.7	2603.7	4501.0	2636.6	
1990	19078.0	1256.0	20334.0	3733.8	1419.6	2226.0	380.8	7760.2	6647.2	2536.8	6743.5	2573.6	
1991	11110.0	1821.0	12931.0	3941.0	1486.8	2394.0	1418.2	9240.0	5675.8	2626.6	3735.8	2669.4	
1992	0.0	1882.0	1882.0	4160.8	1558.2	2569.0	1509.2	9797.2	465.2	2421.7	473.6	2465.7	
1993	0.0	1945.0	1945.0	4382.0	1635.2	2758.0	1607.2	10382.4	418.1	2231.6	426.4	2276.2	
1994	0.0	2012.0	2012.0	4614.4	1709.4	2961.0	1713.6	10998.4	376.1	2055.7	384.3	2100.5	
1995	0.0	4081.0	4081.0	4853.8	1782.2	3178.0	1828.4	11642.4	663.3	1892.2	679.0	1937.0	
1996	0.0	2330.0	2330.0	5318.6	1912.4	3388.0	1950.2	12569.2	329.3	1776.4	337.7	1821.7	
1997	292.0	2414.0	2706.0	5791.8	2042.6	3577.0	2083.2	13494.6	332.6	1658.4	341.6	1703.8	
1998	584.0	2504.0	3088.0	6273.4	2175.6	3906.0	2226.0	14581.0	330.0	1558.2	339.6	1603.7	
1999	6132.0	2596.0	8728.0	6760.6	2308.6	4123.0	2385.6	15577.8	811.1	1447.6	836.2	1492.5	
2000	15243.0	2692.0	17935.0	7254.8	2436.0	4396.0	2556.4	16643.2	1449.2	1344.9	1496.9	1389.1	
2001	7733.0	3081.0	10814.0	7633.0	2661.4	4648.0	3439.8	18582.2	759.9	1303.7	786.3	1351.1	
2002	0.0	3191.0	3191.0	8419.6	2879.8	4858.0	3658.2	19815.6	195.0	1210.7	202.1	1255.1	
2003	0.0	3309.0	3309.0	9014.6	3096.8	5103.0	3892.0	21106.4	175.8	1121.4	182.6	1164.6	
2004	0.0	3430.0	3430.0	9612.4	3315.2	5362.0	4139.8	22429.4	158.5	1036.3	164.9	1078.1	
2005	0.0	5960.0	5960.0	10218.6	3533.6	5649.0	4403.0	23804.2	239.4	956.3	249.5	996.7	
2006	0.0	3830.0	3830.0	10700.2	3693.2	5922.0	4687.2	25002.6	133.8	873.5	139.7	912.0	
2007	0.0	3977.0	3977.0	11191.6	3848.6	6216.0	4995.2	26251.4	120.8	797.5	126.4	834.1	
2008	0.0	4133.0	4133.0	11690.0	4005.4	6510.0	5324.2	27529.6	109.2	727.2	114.4	762.0	
2009	0.0	4295.0	4295.0	12196.8	4167.8	6839.0	5674.2	28877.8	98.7	663.3	103.6	696.3	
2010	0.0	4465.0	4465.0	12713.4	4327.4	7189.0	6050.8	30280.6	89.2	604.8	93.8	636.0	
TOTAL	102086.0	68695.0	170781.0	171340.6	60415.7	100779.1	66595.2	399130.7	41637.2	41299.6	42205.7	42205.5	

TABLE 2.3

FINANCIAL ANALYSIS

REVENUE UP 50.0X

YEAR	EXPENDITURE		REVENUE										DISC = 15.0X		FIRR = 16.2763X	
	CAPITAL EXP.	CURRENT EXP.	TOTAL EXP.	LANDING CHARGE	FACILITY CHARGE	PASSENGER SERVICE	RENTAL FEE	TOTAL REV.	EXPENDITURE	REVENUE	EXPENDITURE	REVENUE	EXPENDITURE	REVENUE		
1982	204.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0	0.0	204.0	0.0		
1983	1168.0	0.0	1168.0	0.0	0.0	0.0	0.0	0.0	0.0	1015.7	0.0	0.0	1004.5	0.0		
1984	1826.0	0.0	1826.0	0.0	0.0	0.0	0.0	0.0	0.0	1380.7	0.0	0.0	1350.6	0.0		
1985	8235.0	0.0	8235.0	0.0	0.0	0.0	0.0	0.0	0.0	5414.6	0.0	0.0	5238.3	0.0		
1986	9621.0	545.0	10166.0	1995.0	835.5	1612.5	0.0	4443.0	0.0	5812.4	2540.3	5561.4	2430.6	0.0		
1987	8786.0	565.0	9351.0	2860.5	1203.0	1777.5	0.0	5841.0	0.0	4649.1	2904.0	4399.5	2748.1	0.0		
1988	1462.0	1170.0	2632.0	3081.0	1300.5	1957.5	346.5	6885.5	0.0	1137.9	2890.3	1065.0	2705.1	0.0		
1989	10672.0	1211.0	11883.0	3490.5	1396.5	2160.0	373.5	7420.5	0.0	4444.7	2789.7	4114.2	2582.2	0.0		
1990	19078.0	1256.0	20334.0	4000.5	1521.0	2385.0	408.0	8314.5	0.0	6647.2	2718.0	6085.5	2488.3	0.0		
1991	11110.0	1821.0	12931.0	4222.5	1593.0	2565.0	1519.5	9900.0	0.0	3675.8	2814.2	3328.2	2548.1	0.0		
1992	0.0	1882.0	1882.0	4458.0	1669.5	2752.5	1617.0	10497.0	0.0	465.2	2594.7	416.6	2323.6	0.0		
1993	0.0	1945.0	1945.0	4695.0	1752.0	2955.0	1722.0	11124.0	0.0	418.1	2391.0	370.3	2117.7	0.0		
1994	0.0	2012.0	2012.0	4944.0	1831.5	3172.5	1836.0	11784.0	0.0	376.1	2202.5	329.4	1929.3	0.0		
1995	0.0	4081.0	4081.0	5200.5	1909.5	3405.0	1959.0	12474.0	0.0	663.3	2027.4	574.6	1756.4	0.0		
1996	0.0	2330.0	2330.0	5698.5	2049.0	3630.0	2089.5	13467.0	0.0	329.3	1903.3	282.2	1630.8	0.0		
1997	292.0	2414.0	2706.0	6205.5	2188.5	3832.5	2232.0	14458.5	0.0	332.6	1776.9	281.8	1505.8	0.0		
1998	584.0	2504.0	3088.0	6721.5	2331.0	4185.0	2385.0	15622.5	0.0	330.0	1669.5	276.6	1399.2	0.0		
1999	6132.0	2596.0	8728.0	7243.5	2473.5	4417.5	2556.0	16690.5	0.0	811.1	1551.0	672.3	1285.6	0.0		
2000	15243.0	2692.0	17935.0	7773.0	2610.0	4710.0	2739.0	17832.0	0.0	1449.2	1440.9	1188.1	1181.3	0.0		
2001	7733.0	3081.0	10814.0	8392.5	2851.5	4980.0	3685.5	19909.5	0.0	759.9	1399.0	616.1	1134.3	0.0		
2002	0.0	3191.0	3191.0	9021.0	3085.5	5205.0	3919.5	21231.0	0.0	195.0	1297.2	156.4	1040.3	0.0		
2003	0.0	3309.0	3309.0	9638.5	3318.0	5467.5	4170.0	22614.0	0.0	175.8	1201.5	139.4	952.9	0.0		
2004	0.0	3430.0	3430.0	10299.0	3552.0	5745.0	4435.5	24031.5	0.0	158.5	1110.3	124.3	870.9	0.0		
2005	0.0	5960.0	5960.0	10948.5	3786.0	6052.5	4717.5	25504.5	0.0	239.4	1024.6	185.8	794.9	0.0		
2006	0.0	3830.0	3830.0	11464.5	3957.0	6345.0	5022.0	26788.5	0.0	133.8	935.8	102.7	718.1	0.0		
2007	0.0	5977.0	5977.0	11991.0	4123.5	6660.0	5352.0	28126.5	0.0	120.8	854.4	91.7	648.4	0.0		
2008	0.0	4133.0	4133.0	12525.0	4291.5	6975.0	5704.5	29496.0	0.0	109.2	779.2	81.9	584.8	0.0		
2009	0.0	4295.0	4295.0	13068.0	4465.5	7327.5	6079.5	30940.5	0.0	98.7	710.7	73.2	527.6	0.0		
2010	0.0	4465.0	4465.0	13621.5	4636.5	7702.5	6483.0	32443.5	0.0	89.2	648.0	65.5	475.7	0.0		
TOTAL	102086.0	68695.0	170781.0	183579.1	64731.1	107977.6	71352.1	427640.0	0.0	41637.2	44174.6	38380.0	38380.0	0.0		

TABLE 3.1
FINANCIAL ANALYSIS

REVENUE UP 0.0%

YEAR	EXPENDITURE			REVENUE							DISC = 15.0%	FIRR = 7.892%	
	CAPITAL EXP.	CURRENT EXP.	TOTAL EXP.	LANDING CHARGE	FACILITY CHARGE	PASSENGER SERVICE	RENTAL FEE	TOTAL REV.	EXPENDITURE	REVENUE			EXPENDITURE
1982	204.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0	204.0	0.0
1983	1168.0	0.0	1168.0	0.0	0.0	0.0	0.0	0.0	0.0	1015.7	0.0	1082.6	0.0
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986	5967.0	0.0	5967.0	0.0	0.0	0.0	0.0	0.0	0.0	3411.7	0.0	4403.3	0.0
1987	16875.0	0.0	16875.0	0.0	0.0	0.0	0.0	0.0	0.0	8389.9	0.0	11541.9	0.0
1988	7088.0	1170.0	8258.0	2054.0	867.0	1305.0	231.0	4457.0	0.0	3570.2	1926.9	5235.0	2825.4
1989	10612.0	1211.0	11823.0	2327.0	931.0	1440.0	249.0	4947.0	0.0	4444.7	1859.8	6946.6	2906.6
1990	19078.0	1256.0	20334.0	2667.0	1014.0	1590.0	272.0	5543.0	0.0	6647.2	1812.0	11073.3	3018.6
1991	11110.0	1821.0	12931.0	2815.0	1062.0	1710.0	1013.0	6600.0	0.0	3675.8	1876.1	6526.7	3331.2
1992	0.0	1882.0	1882.0	2972.0	1113.0	1835.0	1078.0	6998.0	0.0	465.2	1729.8	880.4	3273.7
1993	0.0	1945.0	1945.0	3130.0	1188.0	1970.0	1148.0	7416.0	0.0	418.1	1594.0	843.3	3215.5
1994	0.0	2012.0	2012.0	3296.0	1221.0	2115.0	1224.0	7856.0	0.0	376.1	1468.3	808.6	3157.1
1995	0.0	4031.0	4031.0	3667.0	1273.0	2270.0	1306.0	8316.0	0.0	663.3	1351.6	1520.0	3097.4
1996	0.0	2330.0	2330.0	3799.0	1366.0	2420.0	1393.0	8978.0	0.0	329.3	1268.9	804.4	3099.4
1997	292.0	2414.0	2706.0	4137.0	1459.0	2555.0	1488.0	9639.0	0.0	332.6	1184.6	865.8	3084.1
1998	584.0	2504.0	3088.0	4481.0	1534.0	2790.0	1590.0	10415.0	0.0	330.0	1113.0	915.8	3088.6
1999	6132.0	2596.0	8728.0	4829.0	1649.0	2945.0	1704.0	11127.0	0.0	811.1	1034.0	2399.0	3058.4
2000	15243.0	2692.0	17935.0	5182.0	1740.0	3140.0	1826.0	11888.0	0.0	1449.2	960.6	4569.0	3023.5
2001	7753.0	3081.0	10834.0	5595.0	1901.0	3320.0	2457.0	13273.0	0.0	759.9	932.6	2553.4	3134.0
2002	0.0	3191.0	3191.0	6014.0	2057.0	3470.0	2613.0	14154.0	0.0	195.0	864.8	698.3	3097.5
2003	0.0	3309.0	3309.0	6439.0	2212.0	3645.0	2780.0	15076.0	0.0	175.8	801.0	671.2	3057.9
2004	0.0	3430.0	3430.0	6866.0	2368.0	3830.0	2957.0	16021.0	0.0	158.5	740.2	644.8	3011.9
2005	0.0	5960.0	5960.0	7299.0	2524.0	4035.0	3145.0	17003.0	0.0	239.4	683.1	1038.5	2952.7
2006	0.0	3830.0	3830.0	7643.0	2638.0	4230.0	3348.0	17859.0	0.0	133.8	623.9	618.5	2884.2
2007	0.0	3977.0	3977.0	7994.0	2749.0	4440.0	3568.0	18751.0	0.0	120.8	569.6	595.3	2806.7
2008	0.0	4133.0	4133.0	8350.0	2861.0	4650.0	3803.0	19664.0	0.0	109.2	519.4	573.4	2728.0
2009	0.0	4295.0	4295.0	8712.0	2977.0	4885.0	4053.0	20627.0	0.0	98.7	473.8	552.3	2652.3
2010	0.0	4465.0	4465.0	9081.0	3091.0	5135.0	4322.0	21629.0	0.0	89.2	432.0	532.1	2577.7
TOTAL	102086.0	67585.0	169671.0	119149.0	41793.0	69725.0	47568.0	278237.0	0.0	38614.1	25820.1	69097.5	69097.4

TABLE 3.2

FINANCIAL ANALYSIS

REVENUE UP 40.0%

YEAR	EXPENDITURE			REVENUE							TOTAL REV.	EXPENDITURE	FIRR = 13.7435%
	CAPITAL EXP.	CURRENT EXP.	TOTAL EXP.	LANDING CHARGE	FACILITY CHARGE	PASSENGER SERVICE	RENTAL FEE	TOTAL REV.	EXPENDITURE	REVENUE			
1982	204.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0	204.0	0.0
1983	1168.0	0.0	1168.0	0.0	0.0	0.0	0.0	0.0	0.0	1015.7	0.0	1026.9	0.0
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3411.7	0.0	3564.9	0.0
1986	5967.0	0.0	5967.0	0.0	0.0	0.0	0.0	0.0	0.0	8389.9	0.0	8863.6	0.0
1987	16875.0	0.0	16875.0	0.0	0.0	0.0	0.0	0.0	0.0	3570.2	2697.6	3813.4	2881.5
1988	7088.0	1170.0	8258.0	2875.6	1213.8	1827.0	323.4	6239.8	6925.8	4444.7	2603.7	4800.0	2811.8
1989	10612.0	1211.0	11823.0	3257.8	1303.4	2016.0	348.6	7760.2	7760.2	6647.2	2535.8	7257.9	2769.9
1990	19078.0	1256.0	20334.0	3733.8	1419.6	2226.0	380.8	9240.0	9240.0	3675.8	2626.6	4057.8	2899.6
1991	11110.0	1821.0	12931.0	3941.0	1486.8	2394.0	1418.2	9797.2	9797.2	465.2	2421.7	519.2	2702.9
1992	0.0	1882.0	1882.0	4160.8	1558.2	2569.0	1509.2	10382.4	10382.4	418.1	2231.6	471.8	2518.3
1993	0.0	1945.0	1945.0	4382.0	1635.2	2758.0	1607.2	10998.4	10998.4	376.1	2055.7	429.1	2345.4
1994	0.0	2012.0	2012.0	4614.4	1709.4	2961.0	1713.6	1642.4	1642.4	663.3	1892.2	765.1	2182.7
1995	0.0	4081.0	4081.0	4853.8	1782.2	3178.0	1828.4	12569.2	12569.2	329.3	1776.4	384.0	2071.7
1996	0.0	2330.0	2330.0	5318.6	1912.4	3388.0	1950.2	15494.6	15494.6	332.6	1658.4	392.1	1955.5
1997	292.0	2414.0	2706.0	5791.8	2042.6	3577.0	2083.2	14581.0	14581.0	330.0	1558.2	393.4	1857.6
1998	584.0	2504.0	3088.0	6273.4	2175.6	3906.0	2226.0	15577.8	15577.8	811.1	1447.6	977.6	1744.8
1999	6132.0	2596.0	8728.0	6760.6	2308.6	4123.0	2385.6	16643.2	16643.2	1449.2	1344.9	1766.1	1638.9
2000	15243.0	2692.0	17935.0	7254.8	2436.0	4396.0	2556.4	18582.2	18582.2	759.9	1305.7	936.2	1608.8
2001	7733.0	3081.0	10814.0	7833.0	2661.4	4648.0	3439.8	19815.6	19815.6	195.0	1210.7	242.9	1508.3
2002	0.0	3191.0	3191.0	8419.6	2879.8	4858.0	3658.2	21106.4	21106.4	175.8	1121.4	221.4	1412.4
2003	0.0	3309.0	3309.0	9014.6	3096.8	5103.0	3892.0	22429.4	22429.4	158.5	1036.3	201.8	1319.6
2004	0.0	3430.0	3430.0	9612.4	3315.2	5362.0	4139.8	23804.2	23804.2	239.4	956.3	308.3	1231.2
2005	0.0	5960.0	5960.0	10218.6	3533.6	5649.0	4403.0	25002.6	25002.6	133.8	873.5	174.2	1137.0
2006	0.0	3830.0	3830.0	10700.2	3693.2	5922.0	4687.2	26251.4	26251.4	120.8	797.5	159.0	1049.5
2007	0.0	3977.0	3977.0	11191.6	3848.6	6216.0	4995.2	27529.6	27529.6	109.2	727.2	145.3	967.6
2008	0.0	4133.0	4133.0	11690.0	4005.4	6510.0	5324.2	28877.8	28877.8	98.7	663.3	132.7	892.4
2009	0.0	4295.0	4295.0	12196.8	4167.8	6839.0	5674.2	30280.6	30280.6	89.2	604.8	121.3	822.7
2010	0.0	4465.0	4465.0	12713.4	4327.4	7189.0	6050.8	36148.2	36148.2	38614.1	42330.1	42330.1	42330.1
TOTAL	102086.0	67585.0	169671.0	166808.9	58513.1	97615.1	66595.2	389532.3	389532.3	38614.1	36148.2	42330.1	42330.1

TABLE 3.3
FINANCIAL ANALYSIS

EXPENDITURE		REVENUE										DISC = 15.0X		FIRR = 15.0583X	
CAPITAL EXP.	CURRENT EXP.	TOTAL EXP.	LANDING CHARGE	FACILITY CHARGE	PASSENGER SERVICE	RENTAL FEE	TOTAL REV.	EXPENDITURE	REVENUE	EXPENDITURE	REVENUE	EXPENDITURE	REVENUE		
1982	204.0	0.0	204.0	0.0	0.0	0.0	0.0	0.0	204.0	0.0	0.0	204.0	0.0		
1983	1168.0	0.0	1168.0	0.0	0.0	0.0	0.0	0.0	1015.7	0.0	0.0	1015.7	0.0		
1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1985	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1986	5967.0	0.0	5967.0	0.0	0.0	0.0	0.0	0.0	3404.7	0.0	0.0	3404.7	0.0		
1987	16875.0	0.0	16875.0	0.0	0.0	0.0	0.0	0.0	8389.9	0.0	0.0	8389.9	0.0		
1988	7088.0	1170.0	8258.0	3081.0	1300.5	1957.5	346.5	6685.5	3570.2	2890.3	3559.3	4429.0	2779.8		
1989	10612.0	1211.0	11823.0	3490.5	1396.5	2160.0	373.5	7420.5	4444.7	2789.7	4620.3	6620.3	2707.0		
1990	19078.0	1256.0	20334.0	4000.5	1521.0	2385.0	408.0	8314.5	6647.2	2718.0	3659.1	3620.3	2801.4		
1991	11110.0	1821.0	12931.0	4222.5	1593.0	2565.0	1519.5	9900.0	3675.8	2814.2	462.8	3659.1	2581.6		
1992	0.0	1882.0	1882.0	4458.0	1669.5	2752.5	1617.0	10497.0	465.2	2594.7	415.7	462.8	2377.7		
1993	0.0	1945.0	1945.0	4695.0	1752.0	2955.0	1722.0	11124.0	418.1	2391.0	415.7	415.7	2189.2		
1994	0.0	2012.0	2012.0	4944.0	1831.5	3172.5	1836.0	11784.0	376.1	2202.5	373.8	373.8	2189.2		
1995	0.0	4081.0	4081.0	5200.5	1909.5	3405.0	1959.0	12475.0	663.3	2027.4	658.9	658.9	2014.1		
1996	0.0	2330.0	2330.0	5698.5	2049.0	3630.0	2089.5	13467.0	329.3	1903.3	327.0	327.0	1889.8		
1997	292.0	2414.0	2706.0	6205.5	2188.5	3832.5	2232.0	14458.5	332.6	1776.9	330.0	330.0	1763.4		
1998	584.0	2504.0	3088.0	6721.5	2331.0	4185.0	2385.0	15622.5	330.0	1669.5	327.3	327.3	1656.0		
1999	6132.0	2596.0	8728.0	7243.5	2473.5	4417.5	2556.0	16690.5	811.1	1551.0	804.1	804.1	1537.7		
2000	15243.0	2692.0	17935.0	7773.0	2610.0	4710.0	2739.0	17832.0	1449.2	1440.9	1436.1	1436.1	1427.8		
2001	7733.0	3081.0	10814.0	8392.5	2851.5	4980.0	3685.5	19909.5	759.9	1399.0	752.6	752.6	1385.5		
2002	0.0	3191.0	3191.0	9021.0	3085.5	5205.0	3919.5	21231.0	195.0	1297.2	193.0	193.0	1284.1		
2003	0.0	3309.0	3309.0	9658.5	3318.0	5467.5	4170.0	22614.0	175.8	1201.5	173.9	173.9	1188.8		
2004	0.0	3430.0	3430.0	10299.0	3552.0	5745.0	4435.5	24031.5	158.5	1110.3	156.7	156.7	1098.0		
2005	0.0	5960.0	5960.0	10948.5	3786.0	6052.5	4717.5	25504.5	239.4	1024.6	236.7	236.7	1012.8		
2006	0.0	3830.0	3830.0	11464.5	3957.0	6345.0	5022.0	26788.5	133.8	935.8	132.2	132.2	924.5		
2007	0.0	3977.0	3977.0	11991.0	4123.5	6660.0	5352.0	28726.5	120.8	854.4	119.3	119.3	843.7		
2008	0.0	4133.0	4133.0	12525.0	4291.5	6975.0	5704.5	29496.0	109.2	779.2	107.7	107.7	768.9		
2009	0.0	4295.0	4295.0	13068.0	4465.5	7327.5	6079.5	30940.5	98.7	710.7	97.3	97.3	701.0		
2010	0.0	4465.0	4465.0	13621.5	4636.5	7702.5	6483.0	32443.5	89.2	648.0	87.9	87.9	638.9		
TOTAL	102086.0	67585.0	169671.0	178723.6	62692.6	104587.6	71352.1	417356.0	38614.1	38730.3	38453.2	38453.2	38453.2		

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