6.2 Operations (Arrival and Departure) per Aircraft

	5 to 1		••			
Passenger Composition with A/C Type Q (Seat)	Annual Passenger P Total x Q	Annual Operation δ P/seat/L.F	Peak Day Factor B Day/month	Peak Day Operation A δ x β	Peak Hour Factor α Hour/day	Peak Hour Operation R A x α
[International])						
B747 _{SP} 1.1% (280)	5,700	41	1/280	1 (0.15)	0.20	0.2
A310 4.8% (210)	23,940	228	1/280	1 (0.81)	0.20	0.2
B737 1.7%	8,360	186	1/280	1 (0.66)	0.20	0.2
(90)		7.3				÷ ,
[Domestic]			Managang calaman ang pangaman katang panggang ana managan dalah			
B737 46.2% (90)	229,500	4,250	1/280	15 (15.18)	0.20	3.0
DHC 13.9%	68,850	3,130	1/280	11 (11.18)	0.20	2.2
(36)						
G.A 32.3% (17)	160,650	16,065	1/280	57 (57.37)	0.20	11.4
Total	497,000	23,900		86 (85.35)	0.20	17.2

6.3 Required Number of Apron Berths (Peak Hour) for International and Domestic Carriers

Aircraft Type International & Domestic	Peak Hour Arrival B=R/2	Occupancy Time (min.) F	No. of Berth per Aircraft E=BxF/60x1.2	Planned No. of Berth	Extra Berth H	Required No. of Berth K
B747 _{SP}	0.1	70	0.14	1	0	1
A310	0.1	70	0.14	1	1	2
B737	1.6	45	1.44	2	0	2
DHC8	1.1	45	0.99	1	0	1
G.A.	5.7	30	3,42	4	0	4
Total:				9	1	10

Projected Annual Aircraft Movements by Routes

* *	Annual Commission of the Commi	**************************************	Aircraft Mavements						
Year	Route	Annual Passengers	L.J 280- Seater	M.J 210 Scater	S.J 90 Seater	N.J 36- Scater	G.A 6-19 Seater	Annual	Busy day
	International	. *							
2000		11,600	:	63	111	1.5		174	
2000	South-East Asia	8,400		80	111			80	4 2
	America, Europe	0,400		1 1 1					L
	Sub-Total	20,000		143	111		•	254	6
		20,000			• • •			254	
	Domestic				. *		lara T	e at les	
	Port. M	75,100			1,391			1,391	6
	Lac	22,800		1.0	422			422	2
	Hoskins	13,600			252			252	2
	Kavieng & Others	24,300	*	100		1,105	Barrier et a	1,105	4
	Kieta	31,900			324	654		978	4
	Others	90,300					11,287	11,287	42
	Sub-Total	258,000			2,389	1,759	11,287	15,435	60
	Total	278,000		143	2,500	1,759	11,287	15,689	66
		:							
2010	International								
	Oceania	19,000		101	186	ν.		287	4
	South-East Asia	13,300		127		1	" (E1)	127	. 2
	America, Europe	5,700	41	i				41	2
	Sub-Total	38,000	41	228	186			455	8
			*.	•				:	
	<u>Domestic</u>						*		
	Port. M	141,800		2	2,626		٠.	2,626	10
	Lae	39,700		+	735			735	2
	Hoskins	23,000			426			426	2
	Kavieng & Others	36,400				1,655		1,655	6
	Kieta	57,450		** 2*	463	1,475	e es altaja Latvaria	1,938	8
	Others	160,650					16,065	16,065	58
	Sub-Total	459,000			4,250	3,130	16,065	23,445	86
	Total	497,000	41	228	4,436	3,130	16,065	23,900	94

Attachment 9-3 Comparison of Passenger Terminal Building Standard

Function	Federal Aviation Administration (FAA)	British Airports Authority (BAA)	International Air Transport Ass. (IATA)
Departure Lobby	·	The second secon	· Carrier Carr ·
Seated:	2.75 m ² /Pax. (67%)	1.0 m ² /Pax. (50%)	2.3 m ² /Pax.
Standing:		1.0 m ² /Pax.	1.4 m ² /Pax.
Circulation:	· · · · · · · · · · · · · · · · · · ·	+25%	
Check-in			
Queuing Time:	N/A	less than 3 min.	less than 3 min, for
	100		95% of Pax.
)		•	Peak less than 5
			min. for 80% of Pax.
Queue Length:	3.5 to 4.5 m	N/A	N/A
Process Rate:	1/2 of SBR in 20 min.	1.5 to 2.0 min./Pax.	N/A
Area:	N/A	0.8 m ² /Pax. with hold	0.8 m ² /Pax. with hold
		baggage	baggage
	N/A	0.6 m ² /Friend	0.6 m ² /Friend
Circulation:	N/A	25%	N/A
Passport Control			
Process Rate/Dept.:	N/A	12 to 20 sec./Pax. 95%	95% queue for less than 1.0
Process Rate/Arrv.:	N/A	processed in less than 12 min.	mia.
Area:	N/A	0.6 m ² /Pax.	0.6 m ² /Pax.
Security Control			
Process Rate:	N/A	N/A	95% in less than 3 min.
Агеа:	N/A	N/A	N/A
Departure Lounge			
Seating:	2.8 m ² /Pax.	1.0 m ² /Pax. (60%)	1.5 m ² /Pax. (50%)
Standing:	N/A	1.0 m ² /Pax.	1.0 m ² /Pax.
	Plus circulation	+25%	+10%
Baggage Reclaim			
1st bag to device:	N/A	N/A	N/A
1st pax. to Bag. claim:	N/A	Max. 25 min, between Arrv.	Max. 25 min. between
		of 1st Pax, in hall and reclaim	Arry, of 1st Pax, in hall
		of last Bag.	and reclaim of last Bag.
Net Areas		2	3
Domestic:	-	1,25 m ² /Domes. Pax.	0.8 m ² /Domes. Pax.
International:		2.00 m ² /Intntl. short haul	
		Pax.	200
Long Haul:		3.25 m ² /Intntl. long haul Pax.	1.6 m ² /Intntl. Pax.
Custom Inspection			
Queue Length:	: -	. 	
Total Area:		1.5 m ² /Pax.	6.2 m ² /Pax.
Public Arry, Lobby			
General Waiting Area	_	2.8 m ² /person	N/A
Pax.: Friend Ratio	N/A	N/A	N/A
Bag. per Pax.		1.0	1.3
Kerb Space	0.1 to 0.2	0.1	N/A
(meter per 1000 annual			
pax.)			
Car Park Space	400	/ N/A	N/A
(per million departures)			Land the contract of the con

Attachment 10-1 Calculation of Design Coverage

(1) Aircraft Movement Forecasts

	•			(time	es per year)
Aircraft	Type	1995	2000	2010	2020
B747 SP	Int. Dom.	- ,	<u></u>	41	60
A300	Int. Dom.		143	228	330
B737	Int. Dom.	316	111 2,390	186 4,250	270 4,574

^{*} Except F28, DHC8, GA because max. weight of these aircraft is less than 50% weight of A300.

(2) Numbers of takoff and landing

(case 1); Life: 10 years (2000 - 2010)

			**		takeoff	landing
A300	Int.	(143+(228-143)/2)	x 10 =	1,860	930	930
B737	Int. Dom.	(111+(186-111)/2) (2389+(4250-2389)/2)	x 10 = x 10 =	1,490 33,200	745 16,600	745 16,600
						a de de
(case 2);	Life: 10	9 years (2010 - 2020)	100			5 41 4
•				**	takeoff	landing
B747	Int.	(41+(60-41)/2	x 10 =	510	255	255
A300	Int.	(228+(330-228)/2)	x 10 =	2,790	1,395	1,395
B737	Int. Dom.	(186+(270-186)/2) (4250+4574-4250)/2)	x 10 = x 10 =	2,280 44,120	1,140 22,060	1,140 22,060
(case 3);	Life: 20) years (2000 - 2020)				
			1		takeoff	landing
B747	Int.	0 + 510	= '	510	255	255
A300	Int.	1,860 + 1,790	<u>****</u>	4,650	2,325	2,325
B737	Int. Dom.	1,490 + 2,280 33,200 + 44,120	. = =	3,770 77,320	1,885 38,660	1,885 38,660

^{*} Int.; International Dom.; Domestic

(3) Coverage

(case 1); Life: 10 years (2000 - 2010)

Aircra Type	ſt		$n_{\rm j}$	P_i	Po	$\sqrt{P_i/P_o}$	$\overline{n_i}$	Wi	$w_i \times n_i$
A300	Int.	To La	930 930	35.7 31.7	35.7 35.7	1.000 0.942	930 626	4	3,720 2,504
B737	Int.	To La	745 745	18.9 16.7	35.7 35.7	0.728 0.684	123 92	4	492 368
	Dom.	To La	16,600 16,600	18.9 16.7	35.7 35.7	0.728 0.684	1,181 770	4	4,724 3,080
				and the second s			T	otal	14,888

Coverage of runway ($\alpha = 0.04$) $N = \alpha \times total = 596$ Coverage of taxiway ($\alpha = 0.05$) $N = \alpha \times total = 744$

(case 2); Life: 10 years (2010 - 2020)

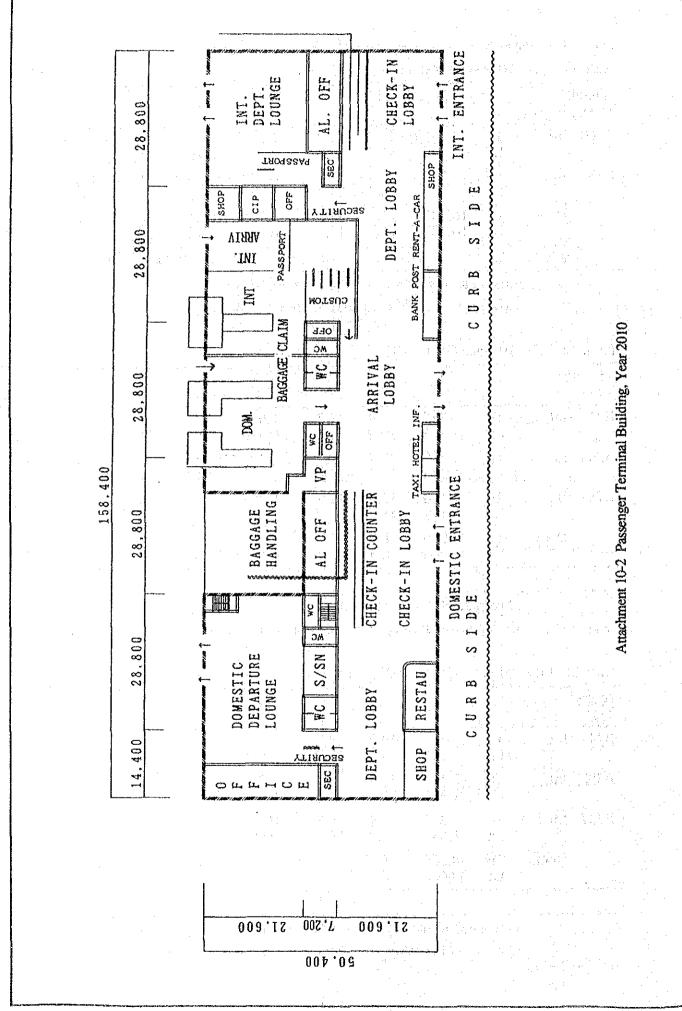
Aircrat Type	ft		nį	Pi	Po	$\sqrt{P_i/P_o}$	$\overline{n_i}$	wi	w _i x n _i
B747	Int.	To La	255 255	40.9 29.6	35.7 35.7	1.070 0.910	375 155	8 8	3,000 1,240
A300	Int.	To La	1,395 1,295	35.7 31.7	35.7 35.7	1.000 0.942	1,395 917	4	5,580 3,668
B737	Int.	To La	1,140 1,140	18.9 16.7	35.7 35.7	0.728 0.684	168 123	4	672 492
	Dom.	To La	22,060 22,060	18.9 16.7	35.7 35.7	0.728 0.684	1,453 935	4 4	5,812 3,740
							~~	Total	24,204

Coverage of runway ($\alpha = 0.04$) $N = \alpha \times total = 968$ Coverage of taxiway ($\alpha = 0.05$) $N = \alpha \times total = 1.210$

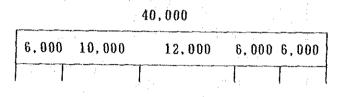
(case 3); Life: 20 years (2000 - 2020)

Aircrat Type	ft		ni	Pi	Po	$\sqrt{P_i/P_o}$	$\overline{n_i}$	Wi	w _i x n
B747	Int.	To La	255 255	40.9 29.6	35.7 35.7	1.070 0.910	375 155	8 8	3,000 1,240
A300	Int.	To La	2,325 2,325	35.7 31.7	35.7 35.7	1.000 0.942	2,325 1,483	4	9,300 5,932
B737	Int.	To La	1,885 1,885	18.9 16.7	35.7 35.7	0.728 0.684	242 174	4	968 696
	Dom.	To La	38,660 38,660	18.9 16.7	35.7 35.7	0.728 0.684	2,095 1,373	4 4	8,380 5,492
						AND THE PERSON NAMED IN COLUMN TO PERSON NAM		Total	35,008

Coverage of runway ($\alpha = 0.04$) $N = \alpha \times total = 1.400$ Coverage of taxiway ($\alpha = 0.05$) $N = \alpha \times total = 1.750$







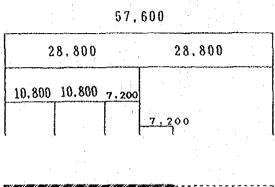
AIR SIDE

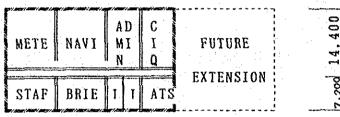
GSE & CONTAINER AREA

	TOIL	SUPERVISO CUSTOM	R	CLERKS	TOIL	CARG AGENT
	TOIL	AGENT		CLERNO	CARG	AGENI
M	ASSIST ANSGER	CUSTOM FILE		CASHIER &	AGENT	CARG AGENT
Ņ	ANAGER	STORAGE		ACCOUNT	a u a	

LOADING AREA

Attachment 10-3 Cargo Terminal Building, Year 2010





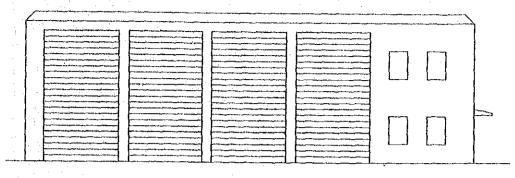
GROUND FLOOR PLAN YEAR 2000

57.600 28.800 28,800 14,400 14,400 14,400 10.800 3,600 METEOL CIQ NAVIG ADMIN BRIEF.

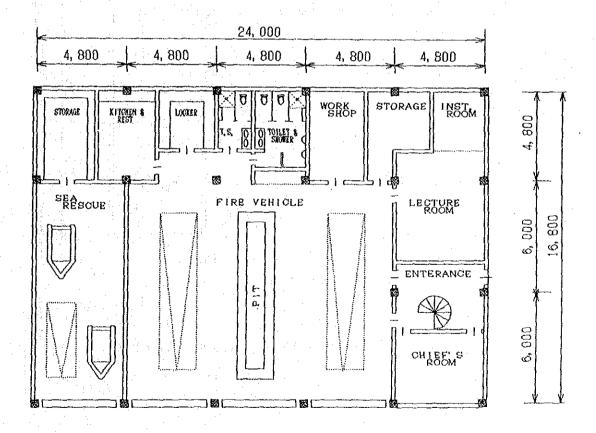
YEAR 2010 GROUND FLOOR PLAN

ATS

Attachment 10-4 Administration Building

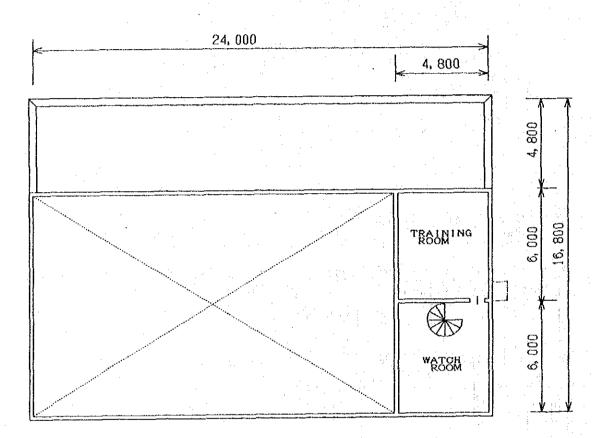


ELEVATION



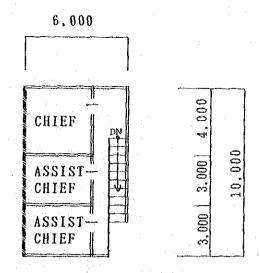
GROUND FLOOR

Attachment 10-5 Fire Fighting Station, Year 2010

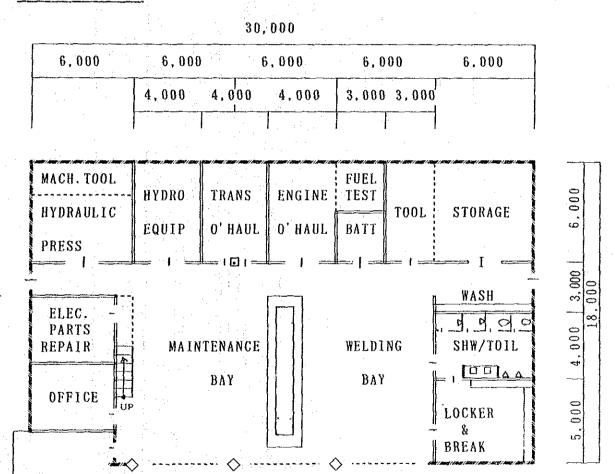


FIRST FLOOR

Attachment 10-6 First Floor Plan of Fire Fighting Station, Year 2010

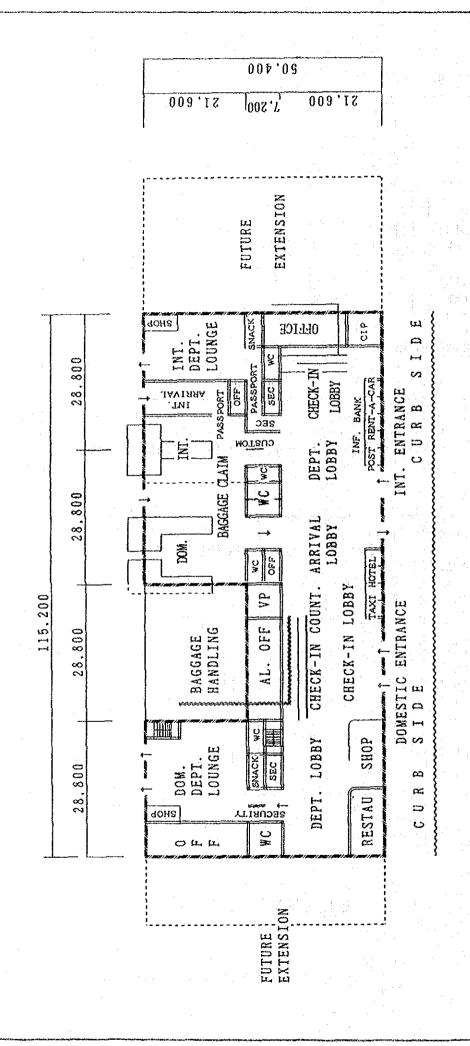


MEZZANINE FLOOR



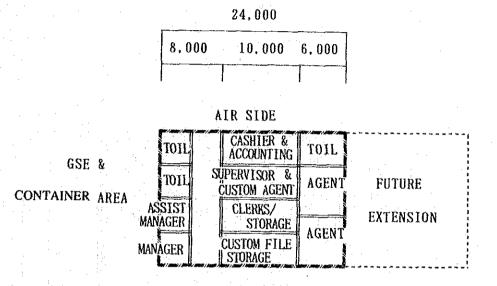
GROUND FLOOR

Attachment 10-7 Maintenance Shop



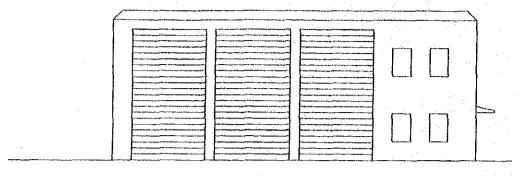
Attachment 11-1 Passenger Terminal Building, Year 2000



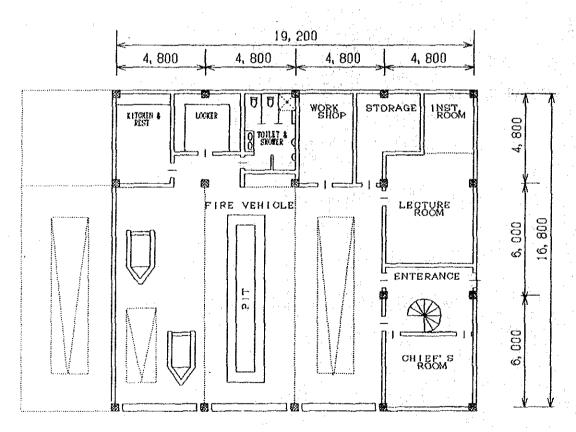


LOADING AREA

Attachment 11-2 Cargo Terminal Building, Year 2000

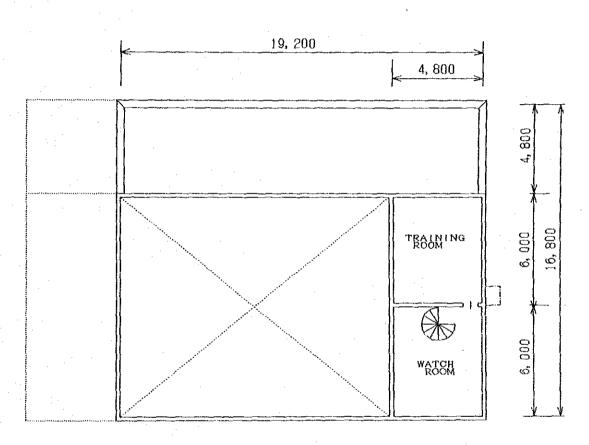


ELEVATION



GROUND FLOOR

Attachment 11-3 Fire Fighting Station, Year 2000



FIRST FLOOR

Attachment 11-4 First Floor Plan of Fire Fighting Station, Year 2000

