.	, <u>, , , , , , , , , , , , , , , , , , </u>				0.			1. c.			
		. 9		pacity				<u> </u>	r <del>i i</del>	Total	
:	<u>,</u> 22.	Phase	Name of Exchange Office	Capac	Traffic (erl)	No. of Circuits	Gene Traffic		No. of Misc.	No. of Circuits	Remarks
			Office	၁	7 19 6641 1 61 - 11 11 12 11		(erl)	Circuits	Circuits	CITCUICS	
		1	Bulacan	400	4.20	10	2.52	8	4	22	
		1	San Ildefonso	500	5,16	11	3.10	8	4	23	
	di	I	San Rafael	300	3.36	9	2.02	7	4	20	
:	Pandi	I	Angat	400	4,32	10	2.59	8	4	22	
		I	Pandi	300	2.52		1.51				TS + LE
		I	Abucay	300	3.48	9	2,09	7	4	20	
	ម្ព	I	Dinalupihan	500	5.64	-	3.38	_	-		TS + LE
		I	Samal	300	3.12	8	1.87	6	4	18	
	Dinalupihan	II	Bagac	40	-			- :	- 4	65	IPTS
	Ω̈́	11	Pilar	40	1			-		6	IPTS
		4 14 1	Private Co.'s			50		37	16	103	
		I	Agoncillo	40			-:	-	<del>-</del>	6	IPTS
		1	Calaca	300	2.64	. 8	1.58	6	4	18	
		I	Ibaan	400	4.68	11	2.81	8	4	23	
		1	Padre Garcia	40	-		-	-	-	6	IPT'S
l		I	Lubang	40	- :	_		_ :	<u>-</u>	6	IPTS
		II	Alitagtag	40			-	-	_	6	IPTS
	٠.	11	San Luis	40		<del></del> '	=	_	-	6	IPTS
		II	San Nicolas	40	-	-	-	<u>-</u>	=	6	IPTS
.	gas	11	Santa Teresita	40	-	_			_ :	6	1PTS
	Batangas	II	Taysan	40	-	: -	-	_	-	6	IPTS
	Ω	11	Tingloy	40		-	-	-	-	6	IPTS
		11	Tuy	40			-	-	-	6	IPTS
		11	Looc	40	''	-		- :	-	6	IPTS
		II	Balite	40	-					6	IPTS
		II	Laurel	40		. •• .	"	-		6	IPTS
: -		11	Mataasnakahoy	40	- :	-	-			6	IPTS
,			Private Co.'s		gran sail	249		168	32	449	k 12 2 1 1 1 1 1
	na	II	Dolores	40	:.		-	-	-	6	IPTS
•	Lucena	11	San Antonio	40					-	6	IPTS
. !	-	<u> </u>	<u> </u>	٠	<u> Li</u>	L	I		1	<u></u>	

				0,			ı, c.		ma.	
ည	985	Name of	pacity	Traffic (erl)	No. of Circuits		eral	No. of	Total No. of	Remarks
и	Pha	Exchange Office	ed ab			(erl)	No. of Circuits	Misc. Circuits	Circuits	: .
	11	Unisan	200	2.40		1.44			-	TS + L
	11	Catanauan	500	5.76	12	3.46	9	4	25	
	II	Guinayangan	300	2,88	8	1.73	6	4	18	
2.4	11	Mulanay	300	2.76	8	1.66	6	4	18	
	11	San Narciso	300	2.88	8	1.73	6	4	18	
	II	Agdangan	40	_	7		-	_	6	IPTS
	rr	Alabat	40	-	<u> </u>	-	_	-	6	IPTS
an	II	Buenavista	40	-		-	-		6	IPTS
Unisan	II:	General Luna	40	-	-	_	-		6	IPTS
	II	Macalelon	40		<u>-</u>			-	6	IPTS
	11	San Francisco	40	<del>-</del>		2 - 2	-	- <u>.</u>	6	IPTS
	II	Perez	40	_	-	- 1		••	6	IPTS
	II	Pitogo	40		-	-		_	6	IPTS
	11	Plaridel	40			-	-	, <b></b>	6	IPTS
	11	Quezon	40		<b>.</b>	-	+	_	6	IPTS
	11	San Andres	40	*	•			_	6	IPTS
	I	Mamburao	300	2.52	8	1.51	6	4	18	
	I	Sablayan	400	4.80	11	2.88	8	4	23	
	1	San Jose	1000	17.82	_	10.70	-	7 - <u></u>	1 	TS + 1
. •	11	Calintaan	40			_			6	IPTS
	II	Magsaysay (O.C.C. Mindoro	40		•	_	-	_	6	IPTS
	II	Paluan	40	-	1, 2 · · ·	-	**:		6	IPTS
	II	Rizal	40	j =. i. ·.	- :	-		<u> </u>	6	IPTS
	II	Santa Cruz	40		-	<del>-</del> .:;		-	6	IPTS
	11	Bulalação	40	-		_	<del>-</del>	-	6	IPTS
(	11	Aborlan	40	<del>-</del>	<u>.</u> .		-	_	6	IPTS
Jose	II	Agutaya	40	-	<u>.</u>	_	· ·	-	6	IPTS
San	11	Araceli	40			-	-	- · · ·	6	IPTS
	II	Balabac	40	1474 <u>-</u> 444			-		6	IPTS
	II	Batarasa	40	- 1	-		_		6	IPTS
	11	Busuanga	40		-	-	_		6	IPTS
	II	Cagayancillo	40	<u>-</u>	-	<b>≓</b> , 35	-	_	6	IPTS
	11	Coron	40	-	_	-	-	_	6	IPTS
:	II	Cuyo	40	-		- <u>-</u>	_	_	6	IPTS
. •	11	Dumaran	40			7	_	-	6	IPTS
	II	El-Nido-Bacuit	40	77 -				~	6	IPTS

					0.	G.		ı.c.	ACCORDINATION AND ADDRESSED		
	ည္က	٠ ي	Name of Exchange	city	6	N 6		neral	No. of	Total No. of	Remarks
		Phase	Office	Capacity	Traffic (erl)	No. or Circuits	Traffic (erl)	No. of Circuits	Misc.	Circuits	Nemarks
-		ΙΙ	Linapacan	40		<u>.</u>	_	_	-	6	IPTS
		ΙΙ	Magsaysay (Palawan)	40	-	-		_	_	6	IPTS
-	o	11	Narra Aborlan	40	_	.= 1.	••	-	_	6	IPTS
	Jose	11	Quezon	40		-	1		_	6	IPTS
	San	rr	San Vicente	40	•	1	-	-	-	6	IPTS
1		ΙΙ	Taytay	40	-			_	-	6	IPTS
		ΙΙ	Abra de Ilog	40	-	*	-	: : -	-	6	IPTS
T		I	Bongabong	400	4.80	11	2.88	8	4	23	
	2	I	Naujan	300	3.60	9	2.16	7	4	20	
		I	Roxas	300	3.00	8	1.80	6	4	18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		1	Victoria	300	3.12	8	1.87	6	4	18	
		1	Odiongan	300	2.76	8	1.66	6	4	18	
		I	Romblon	300	2.64	8	1.58	6	4	18	
		1	Gloria	40		1 . <u> </u>		: <u>-</u>		6	IPTS
		Ι	Puerto Galera	40	-	-		: · · · · · · · · · · · · · · · · · · ·	-	6	IPTS
		Ι	Socorro	40	-	-	#		_	-6	IPTS
		1	San Agustin	40		_	-	· -	-	6	IPTS
	÷	II	Baco	40	•	_	***	-		6	IPTS
	٠.	II	Bansud	40	-			· · -	-	6	IPTS
		II	Mansalay	40	_	-	_	-		6	IPTS
	ជ	11	Pola	40	_	**	-	-		6	IPTS
	Calapan	II	San Teodoro	40	; <del></del> '	.: <u>-</u>	-	-	-	- 6	IPTS
-	Ü	11	Alcantara	40	-	- <u>; -</u> ; - <u>;</u> .	-	-	_	6	IPTS
		11	Banton	40	-			-	-	6	IPTS
		11	Cajidiocan	40	_		_		-	6	IPTS
		II.	Calatrava	40	:	-	_	_	_	6	IPTS
		11	Concepcion	40	1 <u>-</u> 1	-	<b>-</b>		-	6	IPTS
		11	Corcuera	40		<b>.</b>	-	_	_	6	IPTS
	1	II	Looc	40	_ <del>_</del>		-,-		_	6	IPTS
	. :	II	Magdiwang	40	<del></del>	-	-	-	-	6	IPTS
	• •	II	San Andres	40	12	_	_	_	-	6	IPTS
		11	San Fernando	40		-		: _	_	6.	IPTS
		11	San Jose	40	*	_	_	-	-	6	IPTS
		11	Santa Fe	40	-	•	-	i.		.6	IPTS
	. :	11	Lobo	40	_	-	_	_	: 1 <del>-</del>	6	IPTS
			Private Co.'s			45		31	8	84	

Name of Exchange	Name of   Fig.   Traffic   No. of   General   No. of   Remarks   Remarks   Circuits   Remarks   Circuits   Remarks   Circuits   Remarks   Circuits   Cir		***************************************								
Exchange   Office	Exchange   Office   O   Circuits   Traffic   No. of   Nisc.   Circuits   Ci	Q.		157				<del></del>		Total	
II       Burdeos       40       -       -       6       IPTS         II       G. Nakar       40       -       -       6       IPTS         II       Jumalig       40       -       -       -       6       IPTS         II       Panukulan       40       -       -       -       6       IPTS         II       Pollilo       40       -       -       -       6       IPTS         II       Real       40       -       -       -       6       IPTS         II       Mabitac       40       -       -       -       6       IPTS         II       Pangil       40       -       -       -       6       IPTS         II       Pangil       40       -       -       -       6       IPTS         II       Pila       40       -       -       -       6       IPTS         II       Rizal       40       -       -       -       6       IPTS         II       Rizal       40       -       -       -       -       6       IPTS	II   Burdeos   40   -	PC	Exchange	Capac			Traffic	No. of	Misc.	No. of Circuits	
II   G. Nakar   40   -	II   G. Nakar   40   -		Burdeos	40		-		-	_	6	Maria de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición dela composición de la composición de la composición dela composición
II Jumalig       40       6       IPTS         II Panukulan       40       6       IPTS         II Patnamangan       40       6       IPTS         II Pollilo       40       6       IPTS         II Real       40       6       IPTS         II Kalayaan       40       6       IPTS         II Pakil       40       6       IPTS         II Pangil       40       6       IPTS         II Pila       40       6       IPTS         II Rizal       40       6       IPTS	II   Jumalig   40   6   IPTS     II   Panukulan   40   6   IPTS     II   Patnanangan   40   6   IPTS     II   Pollilo   40   6   IPTS     II   Real   40   6   IPTS     II   Kalayaan   40   6   IPTS     II   Mabitac   40   6   IPTS     II   Pangil   40   6   IPTS     II   Pangil   40   6   IPTS     II   Pila   40   6   IPTS     II   Rizal   40   6   IPTS     II   Rizal   40   6   IPTS     II   Rizal   40   6   IPTS     II   Siniloan   40	II	G. Nakar	40	-	-		-	= -	6	
II   Panukulan   40       6   IPTS     II   Patnanangan   40       6   IPTS     II   Pollilo   40       6   IPTS     II   Real   40       6   IPTS     II   Kalayaan   40       6   IPTS     II   Mabitac   40       6   IPTS     II   Pangil   40       6   IPTS     II   Pangil   40       6   IPTS     II   Pila   40       6   IPTS     II   Rizal   40	II   Panukulan   40	II	Jumalig	40		-	•				
II Pollilo 40 6 IPTS  II Real 40 6 IPTS  II Kalayaan 40 6 IPTS  II Mabitac 40 6 IPTS  II Pakil 40 6 IPTS  II Pangil 40 6 IPTS  II Pila 40 6 IPTS  II Rizal 40 6 IPTS	II   Pollilo   40   -	11	Panukulan	40	-			-			
II       Real       40       -       -       6       IPTS         II       Kalayaan       40       -       -       6       IPTS         II       Mabitac       40       -       -       -       6       IPTS         II       Pakil       40       -       -       -       6       IPTS         II       Pangil       40       -       -       -       6       IPTS         II       Pila       40       -       -       -       6       IPTS         II       Rizal       40       -       -       -       6       IPTS	II     Real     40     -     -     6     IPTS       II     Kalayaan     40     -     -     6     IPTS       II     Mabitac     40     -     -     -     6     IPTS       II     Pakil     40     -     -     -     6     IPTS       II     Pangil     40     -     -     -     6     IPTS       II     Pila     40     -     -     -     6     IPTS       II     Rizal     40     -     -     -     6     IPTS       II     Siniloan     40     -     -     -     6     IPTS	II	Patnanangan	40		-	-	-	-	6	IPTS
II   Kalayaan   40   -	II   Kalayaan	11	Pollilo	40	- ,					6	IPTS
II     MaSitac     40     -     -     6     IFTS       II     Pangil     40     -     -     -     6     IPTS       II     Pila     40     -     -     -     6     IPTS       II     Rizal     40     -     -     -     6     IPTS	Mabitac   40   -		Real.	40	-		•	= 1	<u>-</u>	6	IPTS
II     MaSitac     40     -     -     6     IFTS       II     Pangil     40     -     -     -     6     IPTS       II     Pila     40     -     -     -     6     IPTS       II     Rizal     40     -     -     -     6     IPTS	Mabitac   40   -	ii II	Kalayaan	40	-		•	- 1.5 <del>-</del> 2.5 .		6	IPTS
II     Pakil     40     -     -     6     IPTS       II     Pangil     40     -     -     -     6     IPTS       II     Pila     40     -     -     -     6     IPTS       II     Rizal     40     -     -     -     6     IPTS	II     Pakil     40     -     -     6     IPTS       II     Pangil     40     -     -     -     6     IPTS       II     Pila     40     -     -     -     6     IPTS       II     Rizal     40     -     -     -     6     IPTS       II     Siniloan     40     -     -     -     6     IPTS	ž II	Mabitac	40		-	-	-		6	IPTS
II     Pangil     40     -     -     -     6     IPTS       II     Pila     40     -     -     -     6     IPTS       II     Rizal     40     -     -     -     6     IPTS	II     Pangil     40     -     -     6     IPTS       II     Pila     40     -     -     -     6     IPTS       II     Rizal     40     -     -     -     6     IPTS       II     Siniloan     40     -     -     -     6     IPTS	11	Pakil .	40			- :	-	Sali <del>t</del> ation	6	1 to 1 to 1
II Rizal     40     -     -     -     6     IPTS       II Rizal     40     -     -     -     6     IPTS	II     Pila     40     -     -     -     6     IPTS       II     Rizal     40     -     -     -     6     IPTS       II     Siniloan     40     -     -     -     6     IPTS	· · · · · · · · · · · · · · · · · · ·	Pangil	40	-	-	-		4.5%	Talle Land No. 2	IPTS
	TI Siniloan 40 6 IPTS		Pila	40	-	-	_	-			
	II Siniloan 40 - 6 IPTS	11	Rizal	40	-	-		2 <u>- 1</u>		<u> </u>	15, 14, 14
	II Victoria 40 6 IPTS	11	Siniloan	40		<u> </u>		-	<del>-</del>	6	IPTS

Name of Exchange   So		,	10016 11			. G.	ı ırunk	Circuit I. C.		te	ar:
I Aliega   500   5.28   12   3.17   9   4   25     I Cabiao   500   5.16   11   3.10   8   4   23     I Jaen   500   7.09   14   4.25   10   4   28     I Pantabangan   500   5.88   12   3.53   9   4   25     I San Antonio   600   6.60   13   3.96   10   4   27     I Sta Rosa   500   5.76   12   3.46   9   4   25     I Guezon   300   3.24   9   1.94   7   4   20     I Zaragosa   300   3.60   9   2.16   7   4   20     I Carranglan   400   4.08   10   2.45   7   4   21     II Gabaldon   300   3.48   9   2.09   7   4   20     II Nampicuan   40   -   -   -   6   1PTS     II Penaranda   500   5.52   12   3.31   9   4   25     II Balor   300   3.12   8   1.87   6   4   18     II Casiguran   40   -   -   -   -   6   1PTS     II Dinalongan   40   -   -   -   -   6   1PTS     II Dingalan   40   -   -   -   -   6   1PTS     II Dingalan   40   -   -   -   -   6   1PTS     II Dingalan   40   -   -   -   6   1PTS     II San Lais   40   -   -   -   6   1PTS     II Nagalang   40   4.80   11   2.88   8   4   23   23     II Nagalang   40   4.80   11   2.88   8   4   23   23     II Nagalang   40   4.80   11   2.88   8   4   23   23     II Nagalang   40   4.80   11   2.88   8   4   23   23     II Nagalang   4	PC	Phase	Exchange	paci	Traffic	No. of	Traffic	eral	Misc.	No. of	Rem
I   Cabiaco   500   5.16   11   3.10   8   4   23   1   1   Jaen   600   7.08   14   4.25   10   4   28   1   Pantabangan   500   5.88   12   3.53   9   4   25   1   1   San Antonio   600   6.60   13   3.96   10   4   27   1   Sta Rosa   500   5.76   12   3.46   9   4   25   1   Quezon   300   3.24   9   1.94   7   4   20   1   Zaragosa   300   3.60   9   2.16   7   4   20   1   Gabaldon   300   3.60   9   2.16   7   4   20   1   Gabaldon   300   3.48   9   2.09   7   4   20   1   Gabaldon   300   3.48   9   2.09   7   4   20   1   Kampicuan   40   -   -   -   -   -   -   6   IPTS   1   Gabaldon   300   3.48   9   2.09   7   4   20   1   Kampicuan   40   -   -   -   -   -   -   6   IPTS   1   Gabaldon   300   3.12   8   1.87   6   4   18   1   Gabaldon   300   3.12   8   1.87   6   4   18   1   Gabaldon   300   2.88   8   1.73   6   4   18   1   Gabaldon   300   2.88   8   1.73   6   4   18   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   1   Gabaldon   40   -   -   -   -   -   6   IPTS   4   4   4   4   4   4   4   4   4				110,194	2.00						9 14 14 . 10 10 10 1
I   Jaen   600   7.08   14   4.25   10   4   28       I   Pantabangan   500   5.88   12   3.53   9   4   25       I   San Antonio   600   6.60   13   3.96   10   4   27       I   Sta Rosa   500   5.76   12   3.46   9   4   25       I   Sta Rosa   500   5.76   12   3.46   9   4   25       I   Quezon   300   3.24   9   1.94   7   4   20       I   Zaragosa   300   3.60   9   2.16   7   4   20       II   Carranglan   400   4.08   10   2.45   7   4   21       II   Gabaldon   300   3.48   9   2.09   7   4   20       II   G.M. Natividad   300   3.48   9   2.09   7   4   20       II   Penaranda   500   5.52   12   3.31   9   4   25       II   Baler   300   3.12   8   1.87   6   4   18       II   Casiguran   300   2.88   8   1.73   6   4   18       II   Dinalonyan   40   -   -   -   -   6   IPTS       II   Dinalonyan   40   -   -   -   -   6   IPTS       II   Dinaculao   300   2.88   8   1.73   6   4   18       II   Dinaculao   300   2.88   8   1.73   6   4   18       II   Dinaculao   300   2.88   8   1.73   6   4   18       II   Dinaculao   300   2.88   8   1.73   6   4   18       II   Dinaculao   300   2.88   8   1.73   6   4   18       II   San Luis   40   -   -   -   -   6   IPTS       Privato Co.'s   403   280   76   759      II   Gerona   700   7.44   15   4.46   10   4   29       II   Anao   40   -   -   -   -   6   IPTS       II   Ramo   200   2.40   7   1.44   6   3   16       II   Ramo   200   2.40   7   1.44   6   3   16       II   San Manuel   40   -   -   -   -   6   IPTS       II   San Manuel   40   -   -   -   -   6   IPTS       II   San Manuel   40   -   -   -   -   -   6   IPTS       II   Magalang   400   4.80   11   2.88   8   4   23       II   Magalang   400   4.80   11   2.88   8   4   23       II   Magalang   400   4.80   11   2.88   8   4   23       II   Porac   700   7.56   15   4.54   11   4   30			V		7 7 7					are free engine	
T   Pantabangan   S00   S.88   12   3.53   9   4   25     I   San Antonio   600   6.60   13   3.96   10   4   27     I   Sta Rosa   S00   S.76   12   3.46   9   4   25     I   Sta Rosa   S00   S.76   12   3.46   9   4   25     I   Quezon   300   3.24   9   1.94   7   4   20     I   Zaragosa   300   3.60   9   2.16   7   4   20     II   Carranglan   400   4.08   10   2.45   7   4   21     II   Gabaldon   300   3.48   9   2.09   7   4   20     II   Rampicuan   40   -	7 3 - 4 - 4 - 3				A		11. 11.12		7 4 1	terdinal supply	yl s
San Antonio   600   6.60   13   3.96   10   4   27     I   Sta Rosa   500   5.76   12   3.46   9   4   25     I   Quezen   300   3.24   9   1.94   7   4   20     I   Zaragosa   300   3.60   9   2.16   7   4   20     II   Carxanglan   400   4.08   10   2.45   7   4   21     II   Gabaldon   300   3.00   8   1.80   6   4   18     II   Gabaldon   300   3.48   9   2.09   7   4   20     II   Nampicuan   40   -	-	I	Jaen	600	13. 1 ST 31	14	1 14 1 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1000	* Yes 100	
I   Sta Rosa   500   5.76   12   3.46   9   4   25   1		I	Pantabangan	500	5.88	12	3.53	9	4	25	
I   Quezon   300   3.24   9   1.94   7   4   20     I   Zaragosa   300   3.60   9   2.16   7   4   20     II   Carranglan   400   4.08   10   2.45   7   4   21     II   Gabaldon   300   3.00   8   1.80   6   4   18     II   G.M. Natividad   300   3.48   9   2.09   7   4   20     II   Rampicuan   40   -   -   -   -   6   IPTS     II   Penaranda   500   5.52   12   3.31   9   4   25     II   Baler   300   3.12   8   1.87   6   4   18     II   Casiguran   300   2.88   8   1.73   6   4   18     II   Dinasag   40   -   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   6   IPTS     II   Dinasag   40   -   -   -   -   6   IPTS     II   San Luis   40   -   -   -   -   6   IPTS    II   San Luis   40   -   -   -   -   6   IPTS    II   Gerona   700   7.44   15   4.46   10   4   29    II   La   Paz   600   6.48   13   3.89   10   4   27    III   Anao   40   -   -   -   -   6   IPTS    III   Ramos   200   2.40   7   1.44   6   3   16    III   San Manuel   40   -   -   -   -   6   IPTS    III   San Manuel   40   -   -   -   -   6   IPTS    II   Badarang   400   4.80   11   2.88   8   4   23    II   Ragalang   400   4.80   11   2.88   8   4   23    II   Porac   700   7.56   15   4.54   11   4   30		ı	San Antonio	600	6.60	13	3.96	10	4	27	
I   Zaragosa   300   3.60   9   2.16   7   4   20   11   Carranglan   400   4.08   10   2.45   7   4   21   11   11   Gabaldon   300   3.00   8   1.80   6   4   18   11   G.M. Natividad   300   3.48   9   2.09   7   4   20   11   Nampicuan   40   -   -   -   -   -   6   IPTE   11   Penaranda   500   5.52   12   3.31   9   4   25   11   Baler   300   3.12   8   1.87   6   4   18   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   11   Dinalongan   40   -   -   -   -   -   6   IPTE   12   ITTE   13   Dinalongan   40   -   -   -   -   -   -   6   IPTE   14   15   Dinalongan   40   -   -   -   -   -   -   6   IPTE   14   15   Dinalongan   40   -   -   -   -   -   -   -   6   IPTE   14   15   Dinalongan   40   -   -   -   -   -   -   6   IPTE   14   15   Dinalongan   40   -   -   -   -   -   -   6   IPTE   14   15   Dinalongan   40   -   -   -   -   -   -   6   IPTE   15   Dinalongan   40   -   -   -   -   -   -   6   IPTE   15   Dinalongan   40   -   -   -   -   -   -   -   6   IPTE   15   Dinalongan   40   -   -   -   -   -   -   -   6   IPTE   15   Dinalongan   40   Dinalongan   40   Dinalongan   40   Dinal		I	Sta Rosa	500	5.76	12	3.46	9	4	25	
Ti   Carranglan   400   4.08   10   2.45   7   4   21     Ti   Gabaldon   300   3.00   8   1.80   6   4   18     Ti   G.M. Natividad   300   3.48   9   2.09   7   4   20     Ti   Nampicuan   40   -   -   -   -   -   6   IPTS     Ti   Penaranda   500   5.52   12   3.31   9   4   25     Ti   Baler   300   3.12   8   1.87   6   4   18     Ti   Casiguran   300   2.88   8   1.73   6   4   18     Ti   Dinalongan   40   -   -   -   -   -   6   IPTS     Ti   Dinalongan   40   -   -   -   -   -   6   IPTS     Ti   Dinalongan   40   -   -   -   -   -   6   IPTS     Ti   Dinalongan   40   -   -   -   -   -   6   IPTS     Ti   Dinalongan   40   -   -   -   -   -   6   IPTS     Ti   Dinalongan   40   -   -   -   -   -   6   IPTS     Ti   Dinalongan   40   -   -   -   -   6   IPTS     Ti   San Luis   40   -   -   -   6   IPTS     Ti   Gerona   700   7.44   15   4.46   10   4   29     Ti   La Faz   600   6.48   13   3.89   10   4   27     Ti   Anao   40   -   -   -   6   IPTS     Ti   Ramos   200   2.40   7   1.44   6   3   16     Ti   San Manuel   40   -   -   -   -   6   IPTS     Ti   San Manuel   40   -   -   -   -   6   IPTS     Ti   San Manuel   40   -   -   -   -   6   IPTS     Ti   San Manuel   40   -   -   -   -   6   IPTS     Ti   San Manuel   40   -   -   -   -   -   6   IPTS     Ti   San Manuel   40   -   -   -   -   -   6   IPTS     Ti   San Manuel   40   -   -   -   -   -   6   IPTS     Ti   San Manuel   40   -   -   -   -   -   -   6   IPTS     Ti   San Manuel   40   -   -   -   -   -   -   6   IPTS     Ti   San Manuel   40   -   -   -   -   -   -   6   IPTS     Ti   San Manuel   40   -   -   -   -   -   -   -   6   IPTS     Ti   Magalang   400   4.80   11   2.88   8   4   23     Ti   Porac   700   7.56   15   4.54   11   4   30		I	Quezon	300	3,24	9	1.94	7	4	20	
II   Gabaldon   300   3.00   8   1.80   6   4   18   11   G.M. Natividad   300   3.48   9   2.09   7   4   20   11   Nampicuan   40   -   -   -   -   -   -   6   IPTS   11   Penaranda   500   5.52   12   3.31   9   4   25   11   Baler   300   3.12   8   1.87   6   4   18   11   Gasiguran   300   2.88   8   1.73   6   4   18   11   Gasiguran   300   2.88   8   1.73   6   4   18   11   Dinalongan   40   -   -   -   -   -   -   6   IPTS   11   Dinalongan   40   -   -   -   -   -   -   6   IPTS   11   Dinalongan   40   -   -   -   -   -   -   6   IPTS   11   Dinalongan   40   -   -   -   -   -   6   IPTS   11   Maria Aurora   600   6.12   13   3.67   9   4   26   IPTS   11   San Luis   40   -   -   -   -   6   IPTS   11   San Luis   40   -   -   -   -   6   IPTS   11   Anao   40   -   -   -   -   -   6   IPTS   11   ITS   11   Anao   40   -   -   -   -   -   6   IPTS   11   ITS   11   Anao   40   -   -   -   -   -   6   IPTS   11   Anao   40   -   -   -   -   -   6   IPTS   11   Anao   40   -   -   -   -   -   6   IPTS   11   Anao   40   -   -   -   -   -   6   IPTS   11   Anao   40   -   -   -   -   -   6   IPTS   11   Anao   40   -   -   -   -   -   6   IPTS   11   Anao   40   -   -   -   -   -   6   IPTS   12   ITS   13   Anao   40   -   -   -   -   -   -   6   IPTS   12   ITS   13   Anao   40   -   -   -   -   -   -   6   IPTS   14   15   Anao   40   -   -   -   -   -   -   6   IPTS   15   Anao   15   Anao   16   IPTS   15   Anao   16   IPTS   15   Anao   17   Anao   18   Anao		I	Zaragosa	300	3.60	9	2.16	7.	4	20	
II   Nampicuan		II	Carranglan	400	4.08	10	2.45	7	4	21	14 I 1 I
II   Nampicuan	ttuar	II	Gabaldon	300	3.00	8	1.80	6	4	18	14. (A)
II   Nampicuan	bana		G.M. Natividad	300	3.48	9	2.09	7	4	20	
II   Penaranda	ល្អ	II	Nampicuan	40	20 A				<u>-</u>	6	IPTS
II Baler 300 3.12 8 1.87 6 4 18  II Casiguran 300 2.88 8 1.73 6 4 18  II Dilasag 40 6 IPTS  II Dinalongan 40 6 IPTS  II Dingalan 40 6 IPTS  II Dingalan 300 2.88 8 1.73 6 4 18  II Maria Aurora 600 6.12 13 3.67 9 4 26  II San Luis 40 6 IPTS  Private Co.'s 403 280 76 759  I Gerona 700 7.44 15 4.46 10 4 29  I La Paz 600 6.48 13 3.89 10 4 27  II Anao 40 6 IPTS  II Ramos 200 2.40 7 1.44 6 3 16  II San Manuel 40 6 IPTS  B Botolan 600 6.36 13 3.82 10 4 27  I Botolan 600 6.36 13 3.82 10 4 27  I Magalang 400 4.80 11 2.88 8 4 23  P I Porac 700 7.56 15 4.54 11 4 30		II		500	5.52	<b>-</b>	3.31	9	4	25	1 1 2 2
II   Casiguran   300   2.88   8   1.73   6   4   18     II   Dilasag   40   -   -   -   -   6   IPTS     II   Dinalongan   40   -   -   -   -   -   6   IPTS     II   Dingalan   40   -   -   -   -   -   6   IPTS     II   Dipaculao   300   2.88   8   1.73   6   4   18     II   Maria Aurora   600   6.12   13   3.67   9   4   26     II   San Luis   40   -     -   -   6   IPTS     Private Co.'s   403   280   76   759     I   Gerona   700   7.44   15   4.46   10   4   29     I   La Paz   600   6.48   13   3.89   10   4   27     II   Anao   40   -   -   -   6   IPTS     II   Mayantoc   300   2.64   8   1.58   6   4   18     II   Ramos   200   2.40   7   1.44   6   3   16     II   San Manuel   40   -   -   -   -   6   IPTS     II   Botolan   600   6.36   13   3.82   10   4   27     II   Magalang   400   4.80   11   2.88   8   4   23     II   Magalang   400   4.80   11   2.88   8   4   23     II   Porac   700   7.56   15   4.54   11   4   30								6	4	1 3 1 2 2 20	क्षा करणा संबंध
II   Dilasag   40   -   -   -   -   6   IPTS     II   Dinalongan   40   -   -   -   -   -   6   IPTS     II   Dingalan   40   -   -   -   -   -   6   IPTS     II   Dipaculao   300   2.88   8   1.73   6   4   18     II   Maria Aurora   600   6.12   13   3.67   9   4   26     II   San Luis   40   -   -   -   -   6   IPTS     Private Co.'s   403   280   76   759     I   Gerona   700   7.44   15   4.46   10   4   29     I   La Paz   600   6.48   13   3.89   10   4   27     II   Anao   40   -   -   -   -   6   IPTS     II   Mayantoc   300   2.64   8   1.58   6   4   18     II   Ramos   200   2.40   7   1.44   6   3   16     II   San Manuel   40   -   -   -   -   6   IPTS     I   Botolan   600   6.36   13   3.82   10   4   27     I   Dinalongan   400   4.80   11   2.88   8   4   23     I   Magalang   400   4.80   11   2.88   8   4   23     I   Porac   700   7.56   15   4.54   11   4   30		3			-	-		6	4		1 1 3 1 4 7 1 3
II   Dinalongan   40   -		<del></del>			1 7			, <u>V</u>			tome
II   Dingalan   40									-		1.00
II Dipaculao 300 2.88 8 1.73 6 4 18  II Maria Aurora 600 6.12 13 3.67 9 4 26  II San Luis 40 6 IPTS  Private Co.'s 403 280 76 759  I Gerona 700 7.44 15 4.46 10 4 29  I La Paz 600 6.48 13 3.89 10 4 27  II Anao 40 6 IPTS  II Mayantoc 300 2.64 8 1.58 6 4 18  II Ramos 200 2.40 7 1.44 6 3 16  II San Manuel 40 6 IPTS  A I Botolan 600 6.36 13 3.82 10 4 27  I Magalang 400 4.80 11 2.88 8 4 23  A I Porac 700 7.56 15 4.54 11 4 30								1 2 2 T		-	
iI       Maria Aurora       600       6.12       13       3.67       9       4       26         II       San Luis       40       -       -       -       -       6       IPPS         Private Co.'s       403       280       76       759         I       Gerona       700       7.44       15       4.46       10       4       29         I       La Paz       600       6.48       13       3.89       10       4       27         II       Anao       40       -       -       -       -       6       IPPS         Q       II       Mayantoc       300       2.64       8       1.58       6       4       18         II       Ramos       200       2.40       7       1.44       6       3       16         II       San Manuel       40       -       -       -       -       -       6       IPPT         A       I       Botolan       600       6.36       13       3.82       10       4       27         I       Iba       700       8.04       15       4.82       11       4       30		II	Dingalan			<b> </b>	*	• • • • • • • • • • • • • • • • • • •		Contractor	IPTS
II   San Luis   40   6   IPTS	12.00	11	Dipaculao	300	2.88	8	1.73	6	4	18	
Private Co.'s   403   280   76   759     I Gerona   700   7.44   15   4.46   10   4   29     I La Paz   600   6.48   13   3.89   10   4   27     II Anao   40     6   IPTS     II Mayantoc   300   2.64   8   1.58   6   4   18     II Ramos   200   2.40   7   1.44   6   3   16     III San Manuel   40     6   IPTS     A I Botolan   600   6.36   13   3.82   10   4   27     I Iba   700   8.04   15   4.82   11   4   30     I Magalang   400   4.80   11   2.88   8   4   23     A I Porac   700   7.56   15   4.54   11   4   30		11	Maria Aurora	600	6.12	13		9	. 4	26	
I Gerona 700 7.44 15 4.46 10 4 29  I La Paz 600 6.48 13 3.89 10 4 27  III Anao 40 6 IPTS  II Mayantoc 300 2.64 8 1.58 6 4 18  III Ramos 200 2.40 7 1.44 6 3 16  III San Manuel 40 6 IPTS  A I Botolan 600 6.36 13 3.82 10 4 27  I Iba 700 8.04 15 4.82 11 4 30  I Magalang 400 4.80 11 2.88 8 4 23  A I Porac 700 7.56 15 4.54 11 4 30		11	San Luis	40						6	IPTS
I       La Paz       600       6.48       13       3.89       10       4       27         II       Anao       40       -       -       -       6       IPT         Q       II       Mayantoc       300       2.64       8       1.58       6       4       18         E       II       Ramos       200       2.40       7       1.44       6       3       16         II       San Manuel       40       -       -       -       -       -       6       IPT         B       I       Botolan       600       6.36       13       3.82       10       4       27         B       I       Taba       700       8.04       15       4.82       11       4       30         I       Magalang       400       4.80       11       2.88       8       4       23         A       I       Porac       700       7.56       15       4.54       11       4       30			Private Co.'s			403		280	76	759	
I   La Paz   600   6.48   13   3.89   10   4   27     II   Anao   40		I	Gerona	700	7.44	15	4.46	10	4	29	
Ti   Mayantoc   300   2.64   8   1.58   6   4   18     Ti   Ramos   200   2.40   7   1.44   6   3   16     Ti   San Manuel   40   -   -   -   -   -   7   6     Ti   Botolan   600   6.36   13   3.82   10   4   27     Ti   Tiba   700   8.04   15   4.82   11   4   30     Ti   Magalang   400   4.80   11   2.88   8   4   23     A Ti   Porac   700   7.56   15   4.54   11   4   30		I	La Paz	600	6.48	13	3,89	10	4	27	
II San Manuel 40 6 IPT:    San Manuel 40		, II	Anao	40				. 1.40.33		6	IPTS
II San Manuel 40 6 IPT:    San Manuel 40	a c	ΙΙ	Mayantoc	300	2.64	8	1,58	6	.4		
II San Manuel 40 6 IPT:    San Manuel 40	Tar	II	Ramos	200	2.40	7	1.44	6	3		
Botolan   600   6.36   13   3.82   10   4   27     5   5		II	San Manuel	40	-			-	7	6	IPTS
I Magalang 400 4.80 11 2.88 8 4 23 ρί I Porac 700 7.56 15 4.54 11 4 30	8.	100		600		13		10			
I Magalang 400 4.80 11 2.88 8 4 23 ρί I Porac 700 7.56 15 4.54 11 4 30	ongal			4 15 4 15		<del>                                     </del>	10 10 10 10				
μ I Porac 700 7.56 15 4.54 11 4 30	_ ŏ_			4 1	4 4 4		<del> </del>				
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or many results the control of the c											

			<b>-</b>				1. C.			
	Phase	Name of	Capacity	Traffic	No. of	Gene			Total	
22	Phy	Exchange Office	Cap	(erl)	Circuits	Traffic (erl)	No. of Circuits	No. of Misc. Circuits	No. of Circuits	Remarks
	1	Bulacan	600	7,20	14	4.32	10	4	28	
	r	San Ildefonso	800	8.88	16	5.33	12	4	32	1 1
Pandi	ī	San Rafael	500	5.64	12	3.38	9	4	25	
P.	I	Angat	600	6.96	14	4.18	10	4	28	
	1	Pandi	400	4.32		2.59				TS + LE
	I	Abucay	500	5.88	12	3,53	9	4	25	
	I	Dinalupihan	800	9.48		5.69	2 1 42 1 1 1	-		TS + LE
han	I	Samal	500	5,40	12	3,24	9	4	25	
Dinalupihan	II	Bagac	300	2.76	8	1.66	6	4	18	
Din	11	Pilar	400	4.20	10	2.52	8	4	22	
		Private Co.'s			76		54	16	146	
	i	Agoncillo	40		-	-	1-2-5	=	6	IPTS
	I	Calaca	400	4.56	11	2,74	8	4	23	
	I	Ibaan	700	7.92	15	4.75	11	4	30	
	ı	Padre Garica	400	3.72	9	2.23	7	4	20	
	1	Lubang	300	3.24	9	1.94	7	4	20	
	II	Alitagtag	300	2.88	8	1.73	6	4	18	
14	11	San Luis	300	2.76	8	1.66	6	4	18	
	11	San Nicolas	40				-	- 1	6	IPTS
Jas	11	Santa Teresita	200	1.92	7	1.15	5	3	15	
Batangas	II	Taysan	200	1.92	7.	1.15	5	3	15	
Ä	11	Tingloy	300	2.52	8	1.51	6	4	18	
	11	Tuy	300	3.48	9	2.09	7	4	20	
	11	Looc	200	2.40	7	1.44	6	3	16	
39.00	11	Balite	40	-			1		6	IPTS
	II	Laurel	300	3.12	8	1.87	6	4	18	
	II	Mataasnakahoy	300	2.88	8	1.73	6	4	18	
		Private Co.'s			502		336	68	906	
na	II	Dolores	200	2.04	7	1,22	5	3	15	
Lucena	II	San Antonio	300	2.64	8	1.58	6	4	18	
L	<u> </u>		<del>ب نا با</del>		<u>Line and the </u>	<del>1</del>		<u> </u>		لع أحيِّتها

	as	Name of	ity	17. 17. 17.1	.G. Inc. ce		I.C.	ladi.	Total	age of the second
PC	Phase	Name of Exchange Office	Capacity	Traffic (erl)	No. of Circuits	Traffic	No. of Circuits	No, of Misc. Circuits	No. of Circuits	Remark
	11	Unisan	300	3.60		2.16		-		TS + L
	II	Catanauan	900	10.32	18	6.19	13	4	35	
	ij	Guinayangan	500	4.92	11	2.95	8	4	23	
	11	Mulanay	500	5.04	11	3.02	8	4	23	
	II	San Narciso	500	4.92	11	2.95	8	4	23	
. Modernia	ΙΪ	Agdangan	40	-	-	7		Y 11 = 11	6	IPTS
	m	Alabat	300	2,52	8	1.51	6	4	18	
ra L	ıı	Buenavista	300	3,60	9	2.16	7	4	20	
Unisan	II	General Luna	300	2,52	В	1.51	6	4	18	
	II	Macalelon	300	3.24	9	1.94	7	4	20	
	II	San Francisco	400	4.32	10	2,59	8	4	22	
	, II	Perez	40		-		A Total	- 1	6	IPTS
1	11	Pitogo	300	3.12	8	1.87	6	4	18	
1 ·	II.	Plaridel	40						6	IPTS
	II	Quezon	200	2.28	7	1.37	6	3	16	
	II	San Andres	400	4.80	11	2.88	8	4	23	
		Private Co.'s			78	1	54	16	148	
<del></del>	1	Mamburao	400	4.32	10	2.59	8	4	22 : :::	
	I	Sablayan	800	8.52	16	5.11	11	4	31	
. (1)	1	San Jose	1800	31.32	_	18.80	:-: <b>-</b>		<del>-</del>	TS + LE
	II	Calintaan	300	3.12	8	1.87	6	4	18	
	II	Magsaysay (Occ. Mindoro)	400	4.44	10	2.66	8	4	22	
1 3 1 4 4 1	11	Paluan	40	-		_	F7 _	-	6	IPTS
	11	Rizal	200	2.28	8	1.37	6	3	17	
100	ŢĮ.	Santa Cruz	200	2,16	7	1.30	5	3	15	
· 1	II	Bulalacao	300	3.24	9	1.94	7	4	20	
	II	Aborlan	40	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		-		÷	6	IPTS
əsc	11	Agutaya	40	· · · · -	:		-		6	IPTS
San Jose	ΙΊ	Araceli	40	1	•		-	144 ye. <b>2</b> 5 ye. 1	6	TPTS
Š	II	Balabac	200	2.04	7	1.22	5	3	15	
	ΙΙ	Batarasa	40	e de <u>a</u> les		<u></u> 	_		6.	IPTS
	ΙΙ	Busuanga	40			<u></u>			6	IPTS
4 4	ïï	Cagayancillo	40	-		- 1			- 6	IPTS
	TI	Coron	300	3.12	8	1.87	6	4	18	
	11	Cuyo	300	3.24	9	1.94	7	4	20	
	II	Dumaran	40					-	6	IPTS
	11	El-Nido-Bacuit	300	2.64	8	1.58	6	4	18	

	wates.		, ii	o	, G.		1. C.			
PC	Phase	Name of Exchange Office	Capacit	Traffic (erl)	No. of Circuits	Gen Traffic (erl)	eral No. of Circuits	No. of Misc. Circuits	Total No. of Circuits	Remarks
	II	Linapaçan	40	-	_	- (6117	- Clicales	_	6	IPTS
	11	Magsaysay (Palawan)	40				-	-	6	IPTS
	II	Narra Aborlan	400	3.84	10	2.30	7	4	21	
Jose	ΙΪ	Quezon	300	3.48	9	2.09	7	4	20	
San	11	San Vicente	40	4 6		_	- j. <u>j</u> .	11 7 1	6	IPTS
	11	Taytay	300	3,60	9	2.16	7.	4	20	
	II	Abra de Ilog	40						6	IPTS
1	Ï	Bongabong	700	8.04	. 15	4.82	11	4	30	
	İ	Naujan	500	6.00	13	3.60	9	4	26	
	Ι	Roxas	400	4.80	in	2.88	8	4	23	
	ı	Victoria	400	4.80	11	2.88	8	4	23	
	I	Odiongan	400	4,56	8	2.74	8	4	20	
	I	Romblon	400	4.44	10	2.66	8	4	22	
	I	Gloria	300	3.24	9	1.94	7	4	20	
	1	Puerto Galera	40				10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	6	IPTS
	1	Socorro	400	3.96	10	2.38	7	4	22	
	ï	San Agustin	300	3,12	8	1.87	. 6	4	18	
† #   	11	Baco	200	2.40	7	1.44	6	3	16	
	II;	Bansud	400	4.68	11	2.81	8	4	23	
	II	Mansalay	300	3.36	9	2.02	7	4	.20	
ā	11	Pola	400	3.72	9	2,23	7: -:	4	20	
Calapan	II	San Teodoro	40		e e e e e e e e e e e e e e e e e e e			-)	6	1PTS
S	ΙΊ	Alcantara	40			<u> </u>	. <del>.</del>		6	IPTS
	11	Banton	40	-					6	IPTS
	11	Cajidiocan	200	2.04	7.	1.22	5 5	3	15	
	ΙΙ	Calatrava	40	- <del>-</del> -					6	IPTS
The state of the s	II	Concepcion	40	7					6	IPTS
	11	Corcuera	40					7	6	IPTS
	11	Looc	200	2,28	7	1.37	6	3	16	
	II	Magdiwang	40						6	IPTS
-	II	San Andres -	40	aga Francis		1			6	IPTS
	II	San Fernando	200	2,16	7	1.30	5	3	15	
	11	San Jose	40	i de la Cart	la territ	-	,	**************************************	6	IPTS
	II	Santa Fe	40		and Table of		7		6	ÍPTS
	II	Lobo	400	3.84	10	2.30	7	4	21	
		Private Co.'s		to the second second	66		44	8	118	

		Table	ΛT	1~1 (12		mber or		circuits	Year	: 2001
PC	Phase	Name of Exchange Office	Capacity	O. Traffic (erl)	G. No of Circuits	Gen Traffic (erl)		No: of Misc. Circuits	Total No. of Circuits	Remarks
	ıı	Burdeos	400	4.08	10	2.45	7	4	21	
	11	G. Nakar	40			1			6	IPTS
	11	Jumalig	40	-		· · · · · · ·		4	6	IPTS
	i II	Panukulan	300	3.12	8	1.87	6	4	18	joseni kata Bar
	II	Patnanangan	40	•		*		_	6	IPTS
7.1	II	Polillo	400	4.80	11	2.88	8	4	23	
	II	Real	600	6.12	13	3.67	9	4	26	
ny	11	Kalayaan	40	•	-	-	-	-	6	IPTS
Manila	II	Mabitac	200	2.28	7	1.37	6	3	16	
	11	Pakil	300	3.00	8	1.80	6	4	18	
	11	Pangil	40	-			-		6	IPTS
	11	Pîla	500	5.52	12	3.31	9	4	25	
	II	Rizal	40	-	- (	-	_	-	6	IPTS
1	II	Siniloan	300	3.12	8	1.87	6	4	18	
	11	Victoria	400	4.80	11	2.88	8	4	23	
	II	Magallanes	40	) 	e by e	-	-		6	IPTS
	II	Ternate	40		-				6	IPTS

ing Grand Landing Street Control of the			19	91	199	4	200	1
Outgoing	Incoming	Types of Circuit	Traffic (erl)		Traffic		Traffic	
S. F. U.	Cabanatuan		0.79	4	0.96	5	2.16	7
Cabanatuan	S. F. U.		1.64	6	2.49	7	5.85	12
1	Tarlac	H	2.44		3.57	-	8.11	8
	Olongapo	Н	4.53		6.07		13.83	14
	Malolos	Н	5.22		7.14		16.22	17
	Manila	<b>F</b> .	61.02	63	85.23	87	194.34	218
	San	F	25.60	39	35.27	51	35.48	1
	Fernando		A market		33,27	31	33.48	51
Tarlac	Cabanatuan	Н	2.44		3.57	-	8.11	8
Olongapo	Cabanatuan	н	4,53		6.07		13.83	14
San Fernando	Cabanatuan	F	23.61	37	31.86	47	33.16	48
	Pandi	F	4.33	11	5.55	13	8.50	17
	Dinalupihan	F	8.04	17	10.27	- 20	18.36	30
	Batangas	Н	2.07		2.38		15.76	16
Malolos	Cabanatuan	H	5.22		7.14		16.22	17
Pandi	Manila	Н	8.79	9	11.72	12	19.80	20
	San		4 70		Silve Silve			
	Fernando	<b></b>	4.79	12	6.10	14	9.64	19.
Dinalupihan	Manila	н	16.78	17	22.66	23	42.64	44
	San Fernando	F	8.35	17	10.80	20	18.30	30
Dasmarinas	Batangas	Н	6.72	7	7.26	7	15.12	15
San Pablo	Batangas	H	11.42	11	12.29	12	25.64	26
	Unisan	H			1,25		5.71	7
	Calapan		2.70		3.34		6.44	6
								1
Batangas	Dasmarinas	Ĥ	6.72	7	7.26	7	15.12	15
	San Pablo	H	11.42	11	12.29	12	25.64	26
	Lucena	1	7.39	7	8.94	9	17,09	17
	Unisan	H			1.79		7.89	8
	San Jose	H	0.67	-	2.79		5.92	6
	Calapan	H	2.02		3.35		6,57	6
	San Fernando	н	4.25		5.82		15.95	16
	Manila	F	93.41	118	127.65	157	238.1	285

Table VI-1-2 (2/2) Number of Circuits between TSs

Outgoing	Incoming	Types of	199	91	19	94	200	01
outgoing	incoming	Circuit	Traffic (er1)	No. of Circuits	Traffic (erl)	<b>4</b>	Traffic (erl)	No, of Circuit
Lucena	Batangas	<b>H</b>	7.39	7	8.94	9	17.09	17
Unisan	San Pablo	H			1.25	-	5.71	7
	Batangas Manila	H .			0.91 17.63	27	4.68 74.26	4 96
San Jose	Batangas Manila	H F	0.80 15.20	- 24	1.50 29.07	41	3.91 67.16	3 88
Calapan	San Pablo	Н	2.70	00 to 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.34	-	6.64	6
	Batangas	<b>H</b>	1.75		2.43	-	5.44	5
	Manila	F	31.80	44	46.60	60	87.58	112
Manila	Cabanatuan	H	30.00	31	33.71	35	74.07	83
	Pandi	H	2.89	2	3.60	3	6.05	6
	Dinalupihan	Н	4.59	4	6.46	6	11.61	12
	Batangas	<b>F</b>	41.61	58	58,77	78	95.06	120
	Unisan	F		_	8.61	16	29.62	44
	San Jose	F	8.76	16	15,92	25	32.61	48
	Calapan	${f F}$	17.05	27	24.71	36	41.20	58

- 2. Telegraph Circuit Estimation
- 2-1 Number of Gentex Lines

Telegraph circuit estimation has been made on the same conditions as employed in the Northern Luzon Project, as follows.

- (1) Waiting time (sending): 600 seconds
- (2) Average holding time (sending): 120 seconds
- (3) Formula for sending line estimation: (W/h = 4)As per Erlangs C formula.
  - W: Average waiting time
  - h: Average holding time
- (4) Formula for receiving line estimation: (B = 0.01)As per Erlangs B formula.
  - B: Loss probability

The numbers of gentex lines obtained as above are given in Tables VI-2-1-1 and VI-2-1-2.

## 2-2 Number of Telex Subscriber Lines

The number of telex subscriber lines corresponds to the number of telex units (lines) obtained in the paragraph on demand estimation. Table VI-2-1-1 gives the number of telex lines, and Table VI-2-2-1 shows the total numbers of gentex and telex lines.

2-3 Trunk Lines between Telex Concentrator Station and Telex Exchange Office

TDM concentrators are to be used for telex concentrators. In this case, each one outgoing

Table VI-2-1-1 (1/3) Required Number of Gentex and Telex Lines

	Station	Section	Required Nur	mber of Lines
	a Art Tyles and a straight Americanism agus the common		Phase I	Phase II
	Olongapo Olongapo (T)	To Olongapo To Longapo	4	4 37
	Tarlac Tarlac (T)	To Tarlac	3	3 11
	Baliuag Baliuag (T)	To Malolos	1	1
	Hagonoy Hagonoy (中)	To Malolos To Malolos	1	1
<b>(</b> 2	Malolos Malolos (T)	To Malolos To Malolos	2 5	2 10
Station (T)	Meycauyan Meycauyan (T)	To Malolos		1 17
Telex Sta	Sta. Maria Sta. Maria (T)	To Malolos To Malolos	्राच्या स्टब्स् इ.स. १ - 7.स १९३४ - 24	1 14
o r	Guagua Guagua (T)	To S. Fernando	1 3	1
K Station	Angeles Angeles (T)	To S. Fernando	2	2 40
Gentex	San Fernando San Fernando(T)	To S. Fernando To S. Fernando	3 16	3 35
	Cabanatuan Cabanatuan (T)	To Cabanatuan To Cabanatuan	3	7
	Iba	To Iba	2	2
	Masinloc	To Iba		2
	Limay Limay (T)	To Iba		1
	Balanga Balanga (T)	To Iba	2	2
	Mariveles	To Iba	1	2

Table VI-2-1-1 (2/3) Required Number of Gentex and Telex Lines

yay)	Station	Section	Required Nur	wer of Lin
ed for death			Phase I	Phase II
	Batangas	To Batangas	5	5
	Batangas (T)	To Batangas	5	11
	Bauan	To Batangas	1	<b>1</b>
	Bauan (T)	To Batangas	2	6
	Lipa	To Batangas	2	2
	Lipa (T)	To Batangas	1	5
	Nasugbu	To Batangas		ever a grid <b>1</b>
Ð	Nasugbu (T)	To Batangas	3	5
Station	Balayan	To Batangas		
Sta 1	Balayan (T)	To Batangas		2
Telex	Tanauan	To Batangas	_	1
12.7	Tanauan (T)	To Batangas		2
o c	Binan	To Calamba		1
Station	Binan (T)	To Calamba		8
Sta	Calamba	To Calamba		5
Gentex	Calamba (T)	To Calamba		13
Gen	San Pablo	To Calamba		3
	San Pablo (T)	To Calamba	Miller to keller at	13
n	College	To Calamba		1
	Calapan	To Calapan	3	3
	Cavite	To Cavite		2
	Cavite (T)	To Cavite		8
	Imus	To Cavite		1
, in the state of	Imus (T)	To Cavite		3
	Tagaytay	To Cavite		4
	Odiongan	To Romblon	2	2
	Romblon	To Romblon	3 (37)	
Note that the self.	Marine the second of the secon			

# Table VI-2-1-1 (3/3) Required Number of Gentex and Telex Lines

Station	Section	Required Nu	mber of Li
	332,023,023	Phase I	Phase I
San Fernando	To Romblon		2
Puerto Princesa	To P. Princesa	-	3.
Puerto Princesa(T)	To P. Princesa		
Candelaria	To Lucena	•	<b>1</b>
Candelaria (T)	To Lucena		4
Gumaca	To Lucena		3
Lucena	To Lucena		5
Lucena (T)	To Lucena		9
Boac	To Lucena	3	3
San Jose	To S. Jose	2	2
San Jose (T)	To S. Jose	1	3
Antipolo	To Taytay	4	1
Antipolo (T)	To Taytay		13
Cainta	To Taytay		1
Cainta (T)	To Taytay		37
Tanay	To Taytay		1
Tanay (T)	To Taytay		5
Taytay	To Taytay		2
Taytay (T)	To Taytay		1.8
Total		95	466

(Note) A kind of circuit is a two wire type

Table VI-2-1-2 Required Number of Gentex Lines

			······································
	Phase I	Phase II	Remarks
	Cabiao, CLSU (Munos),	Orion, Gapan, Lupao, Munos,	
	Guimba, Jaen, Quezon,	Palayan, Rizal, Talavera,	
	San Antonio, San Jose,	S. Leonardo, Sto. Domingo,	
	Sta. Rosa, F. Blanca,	Baler, Apalie, Lubao, Camiling,	
	Dinalupihan, Gerona,	Concepsion, Paniqui, Moncada,	
-	Calaca, S. Ildefonso,	Victoria, Balagtas, Bocaue,	
	Bongabon, Victoria,	Calumpit, Marilao, Plaridel,	
	Mamburao, Sablayan	Pulilam, S. Miguel, S. Antonio,	
5		Subic, Sta. Cruz, F. Air Base,	. Back
Station		Lemery, Rosario, San Jose,	Each gentex
Sta	Total: 17 lines	San Juan, Cabuao, Kalayaan,	stations provides
×		Liliw, Los Banos, Lopez,	a pair of tele-
Gentex		Mabitac, Majayjay, Sanpedro,	phone lines to
		Sta. Cruz, Infanta, Tanza,	telex concentrator
		Alcantara, Banton, Looc, Coron,	station
		Unisan, Culion, El Nido,	g.
		Calauag, Catanauan, G. Luna,	
		Guinayangan, Macalelon,	
		Mauban, Mulanay, Pitogo, Gasan,	
		Palauan, Sta. Cruz	
		Total: 78 lines	•
			: 

Table VI-2-2-1 Total Numbers of Gentex and Telex Lines

	Phase I	Phase II	Remarks
Number of gentex lines	64	170	2-wire type
Number of telex lines	48	374	2-wire type
Total	112	544	2-wire type

telephone trunk line (4 wires) can accommodate 46 telegraph channels of 50 bauds. The numbers of trunk lines between telex concentrator and telex exchange are given in Table VI-2-3-1.

- 2-4 Number of Trunk Lines between Telex Exchange Offices

  The estimation of the required number of trunk

  lines has been made on the same conditions as employed
  in the Northern Luzon Porject.
  - (1) The outgoing/incoming traffic in the regional telex exchange area is estimated to be 15% of all traffic to be handled by the exchange equipment.
  - (2) The number of outgoing calls from regional telex center to National Telex Center in Manila is to be 30% larger than the number of incoming calls from Manila.
  - (3) Total number of calls (a)

 $a = (T \times 0.08 + G \times 0.2) \times 1.2 + L \text{ (erlangs)}$ 

The total number of outgoing calls to Manila =  $a \times 0.85 \times 1.15/2$  (Erlang)

The total number of Incoming calls from Manila =  $a \times 0.85 \times 0.85/2$  (Erlang)

- where T: number of telex lines
  - G: number of gentex lines
  - L: total number of calls in the regional telex center
  - 0.08: busy-hour traffic of a telex subscriber line (erlangs/line)

Table VI-2-3-1 Required Number of Trunk Lines

-				
	Station	Continu	Required Nu	mber of Lines
	Station	Section	Phase I	Phase II
Telex Exchange	San Fernando	To Manila	1	2
Telt Excl	Batangas	To Manila	1	2
	Balanga	To S. Fernando	1	1
	Cabanatuan	To S. Fernando	1	1
	Tarlac	To S. Fernando	1	1
Tot	Malolos	To S. Fernando	1	2
Station	Olongapo	To S. Fernando	1	1
	Iba	To S. Fernando	1	.1
Concentrator	Taytay	To Batangas	-	2
ent	Calamba	To Batangas	-	2
ouc ouc	Calapan	To Batangas	1	1
	Cavite	To Batangas	<b>.</b>	1
Telex	Romblon	To Batangas	1	1
F 6	P. Princesa	To Batangas	<b></b>	1
	Lucena	To Batangas	<del>-</del>	1
-	San Jose	To Batangas	1	1
	Total		11	21

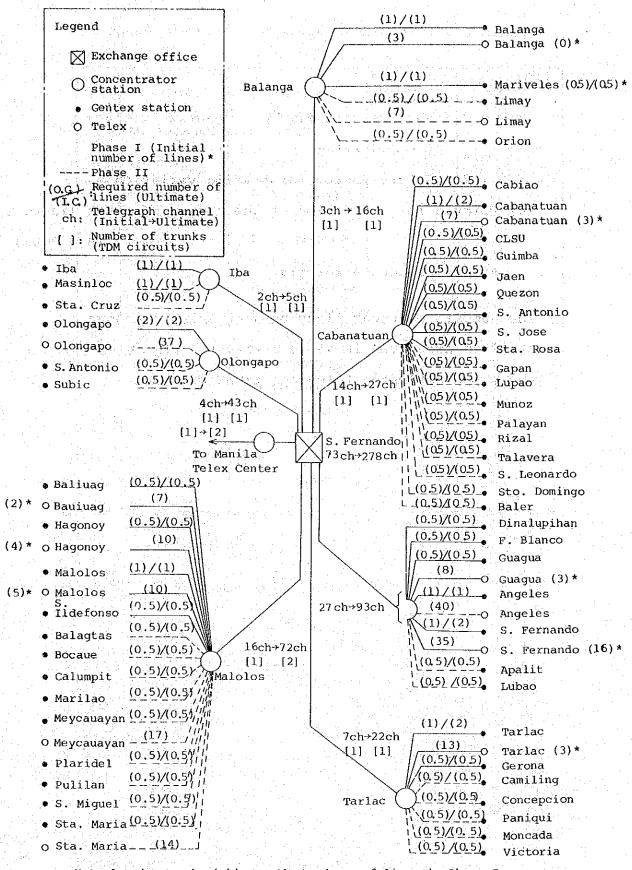
(Note) A Kind of circuit is a 4-wire type.

- 1.2: Safety factor for traffic variation
- (4) Formula for estimation of the number of trunk lines:

(B = 0.01)

As per Erlangs B formula.

The numbers of trunk lines between telex exchange stations are given in Table VI-2-3-1. Fig. VI-2-4-1 shows the estimated telegraph trunk diagram.



Note 1: Figures in ()\* are the numbers of lines in Phase I.

Note 2: (0.5)/(0.5) means one line for both outgoing and incoming telegrams.

Fig. VI-2-4-1 (1/2) Telegraph Trunk Diagram (Region III)

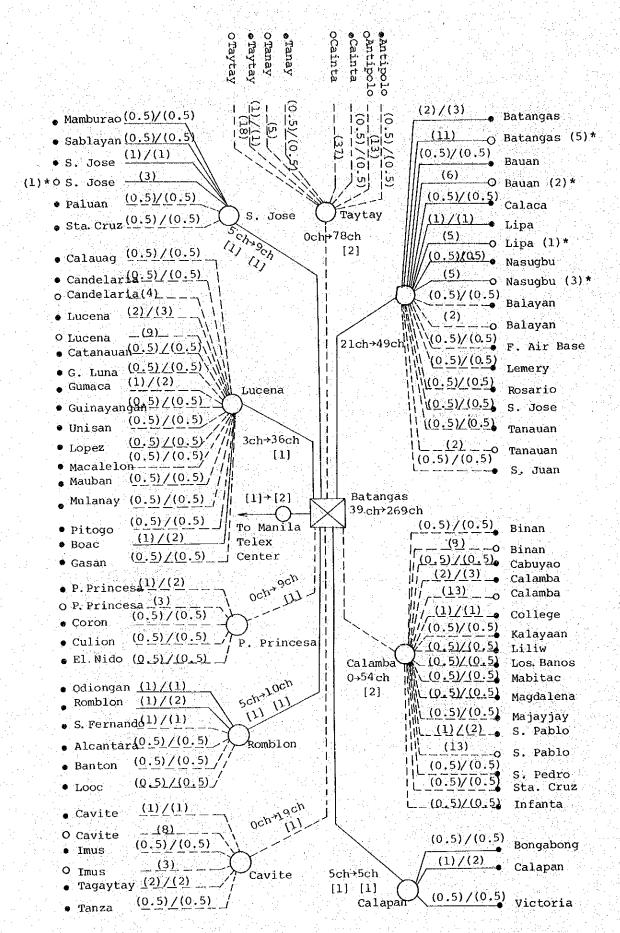
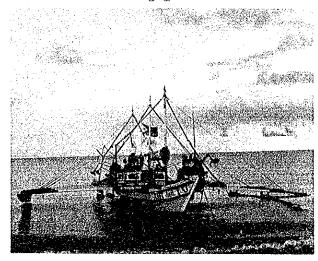


Table VI-2-4-1 (2/2) Telegraph Trunk Diagram (Region IV)

VII. SYSTEM DESIGN AND AMOUNTS OF WORKS





Rental Ferry boat for site survey at Sablayan, San Jose



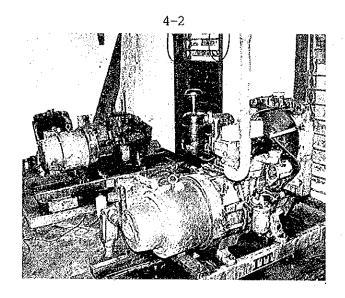
Flooded road by typhoon (National road, Cabanatuan-Santa Rosa)



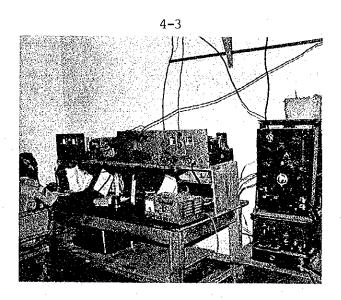
Drinking coconat juice on the way of site survey (Mt. Dumali)



Inter provincial Telephone
station of BUTEL (Cabanatuan)



Power plant for Microwave relay station (Mamburao)



Telegraph station (Mamburao)

#### VII. SYSTEM DESIGN AND AMOUNTS OF WORKS

## 1. Switching Equipment

#### 1-1 General

The major items of work regarding switching equipment are as follows.

- (1) Installation of LEs for accommodating subscribers
- (2) Installation of IPTSs for providing semi-automatic toll telephone service (for accommodating some subscribers)
- (3) Installation of TSs for establishing a DDD network

## 1-2 Amounts of Works

The amounts of works for different types of switching equipment are given in Table VII-1-2-1. In Phase I, a basic telephone network is to be constructed by installing mainly toll switching equipment and local switching equipment. In Phase II, IPTSs are to be installed mainly in cities/municipalities, where no telephone service is to be provided for the time being, so as to spread telephone service. Details of the amounts of works are as follows.

- (1) Capacity of LEs and IPTSs to be installed

  Table VI-1-1 in SECTION VI "CIRCUIT ESTIMATION"

  gives the capacity of LEs and IPTSs to be installed.
- (2) Capacity of toll switching equipment to be installed

  Table VII-1-2-2 gives the capacity of toll

  switching equipment to be installed.

# 1-3 Trunking Diagrams people to a secure de dispersion a reservi-

The capacity, traffic, and the number of circuits of each exchange office are given in Tables VI-1-1 and VI-1-2. The typical trunking diagrams of TS, TS + LE, LE, and IPTS are shown in Figs. VII-1-3-1  $\sim$  4.

Table VII-1-2-1 Amounts of Works for Different Types and Capacities of Switching Equipment

Type/C	apacity	Phase I	Phase II
The second of the second		3	
	200L + 20 erl	1	
	200L + 30 erl	<b>-</b>	$\mathbf{l}_{i}$
TS + LE	400L + 40erl	1	_
	800L + 20 erl	1	
	Subtotal	10 to 13 to 11	1
	200L	12	-
i Tyan at wa	300L	14	3
LE	400L	2	
e der se gre	500L	t skits- e span	: <b>1</b> .949
ng in the state of	Subtotal	28	4
ΙP	TS.	10	103

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Table VII-1-2-2 Capacity of Toll Switc-ign Equipment to Be Installed

		1991			1994	**************************************
Office	Number of IC/OG Circuits	Number of Boards	Number of Subscribers	Number of IC/OG Circuits	Number of Boards	Number of Subscribers
Cabanatuan Pandi Dinalupihan Batangas	404 75 124 424	1	160 360	556 87 153 574	5 1 2	- 210 470
Unisan San Jose Calapan	35 197	; i	750 	145 185 331	5 2 2 3	200 990 -
Total	1,259	12		2,031	21	

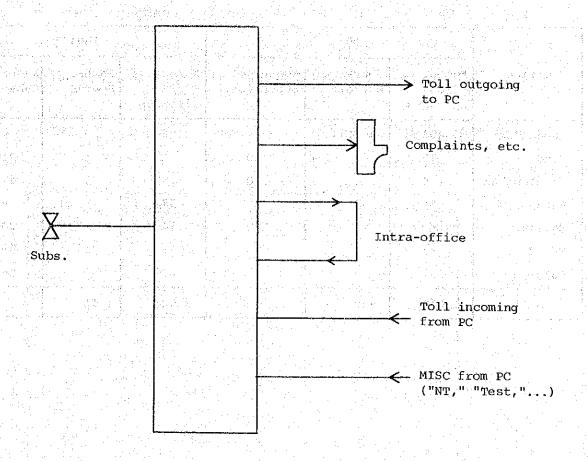


Fig. VII-1-3-1 LE Trunking Diagram

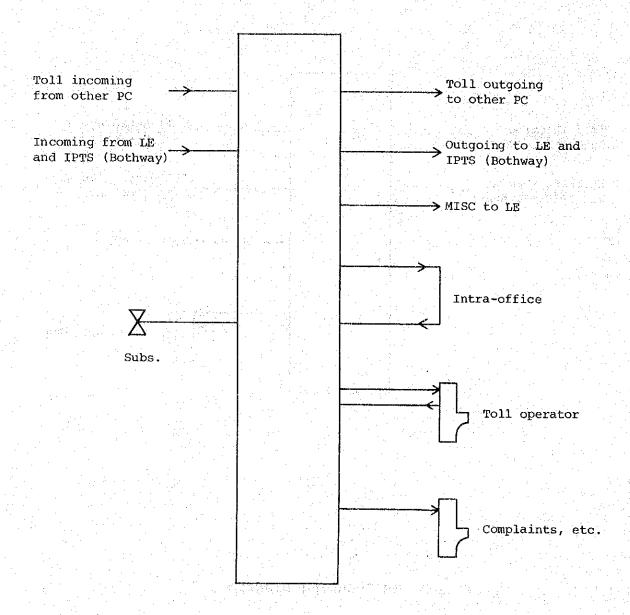


Fig. VII-1-3-2 LE + PS Trunking Diagram

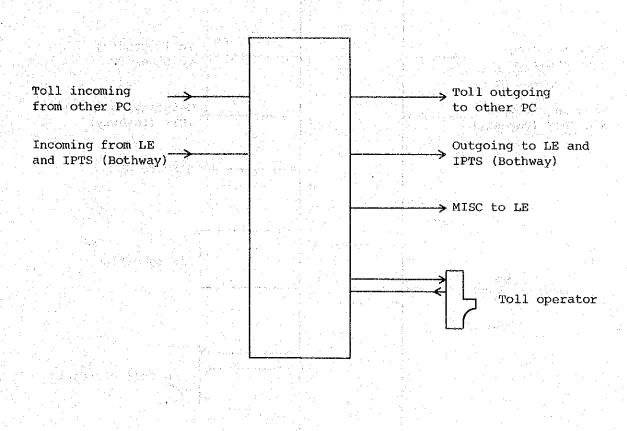


Fig. VII-1-3-3 TS Trunking Diagram

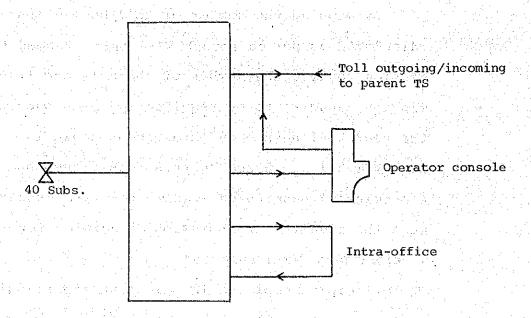


Fig. VII-1-3-4 IPTS Trunk Diagram

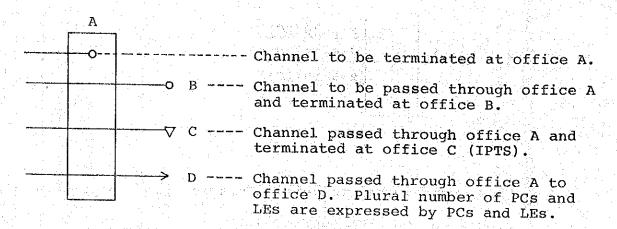
### 2. Transmission

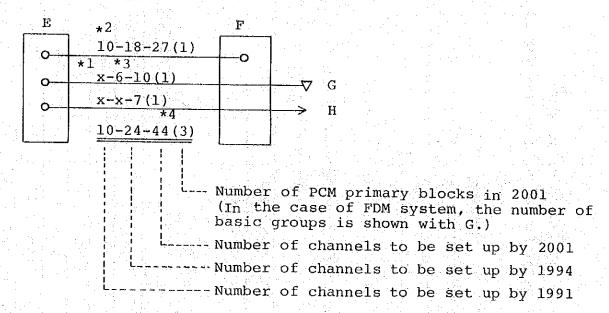
# 2-1 Section of Transmission Systems

By mapping the number of telephone channels calculated as per paragraph VI-1 onto assumed transmission routes, the number of channels and transmission capacity to be required for each section in the year 2001 have been obtained as shown in Fig. VII-2-1-1. Based on this result such an economical transmission systems that are expected to meet the required transmission capacities for individual sections have been selected.

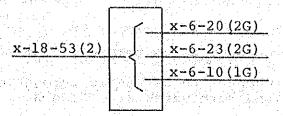
The principles employed in selecting transmission systems are as follows.

- (1) SHF system is employed in sections where the number of channels to be required by 2001 will exceed 500 or where color TV signal is to be transmitted.
- (2) For sections where the number of channels to be required by 2001 will be less than 500, UHF or VHF system is to be employed. However, cable system (trunk cable system or cable PCM system) is to be employed for sections with transmission distances of less than about 10 km.
- (3) Cable systems for entrance from radio stations to telephone exchange offices have been determined on the following principles.





- Note \*1 "x" means that no channel is to be set up.
  - \*2 For transmission between E and F, ten channels to be required by 1991 are to be set up in Phase I.
  - \*3 For transmission between E and G, six channels to be required by 1994 are to be set up in Phase II.
  - \*4 For transmission between E and F, such a transmission system that will meet the transmission capacity to be required by 2001 (the number of PCM primary blocks or FDM basic groups) is to be selected in principle.



This means mutual conversion between two PCM primary blocks and one FDM supergroup.

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Part de la reflectación de la filla de la libera de la respectivión de la respectivión de la respectivo de la Testa Part de la libera de la Martin Republica de la filla de la filla de la filla de la Republica de la compo La respectiva de la grapia de la filla La respectiva de la filla de la fi

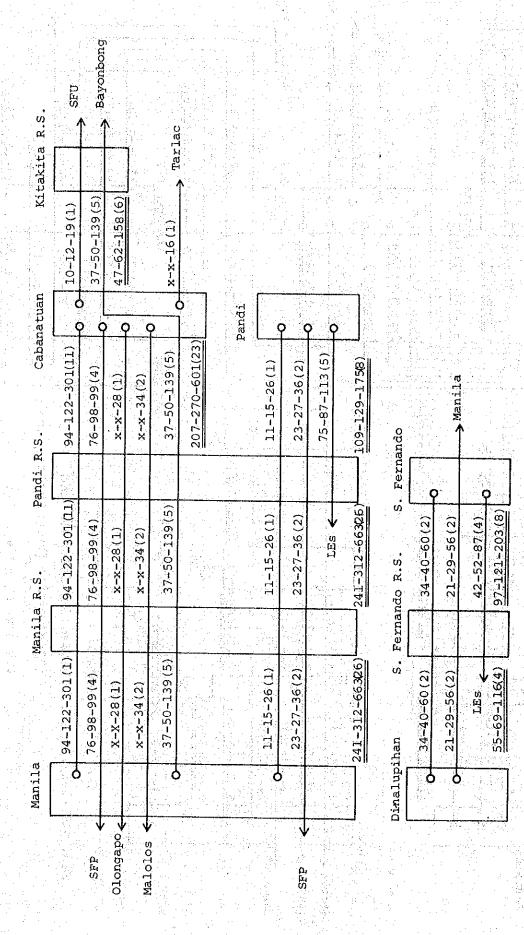
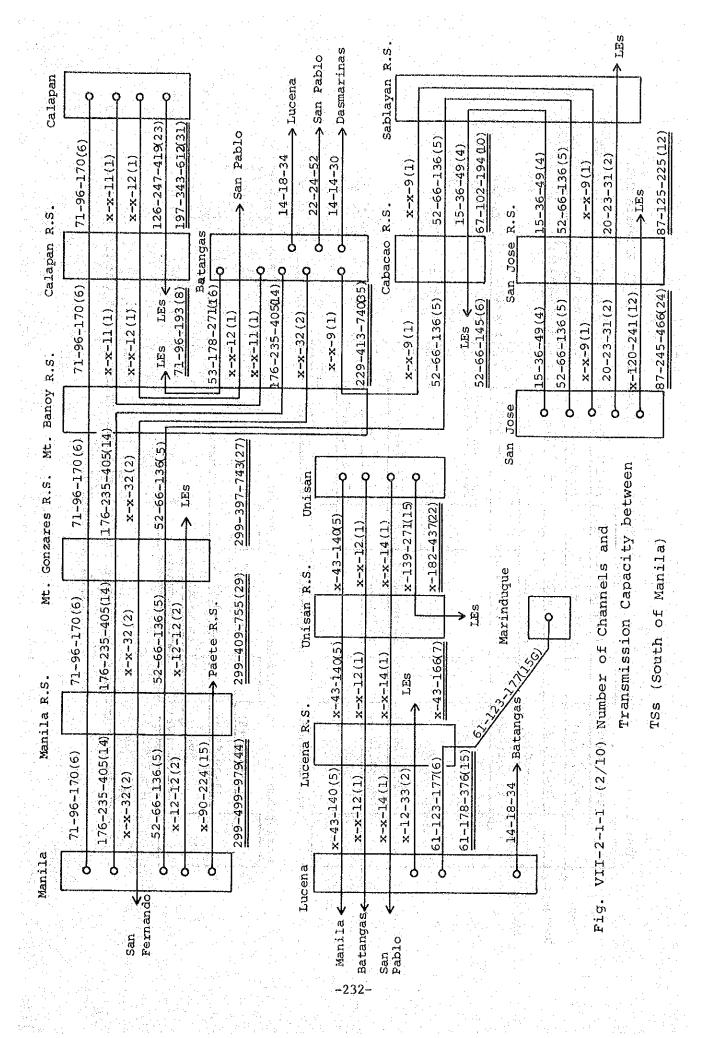
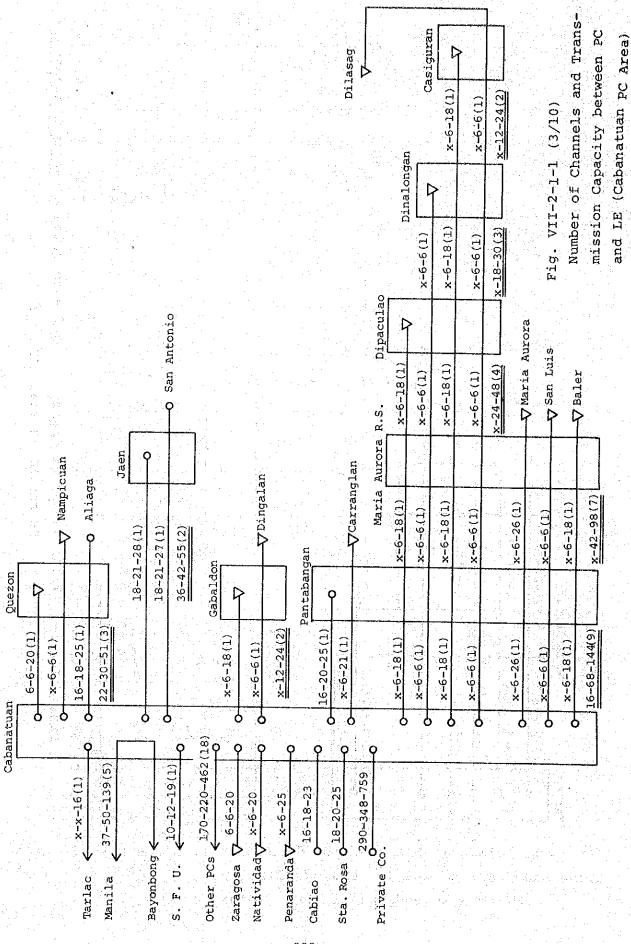


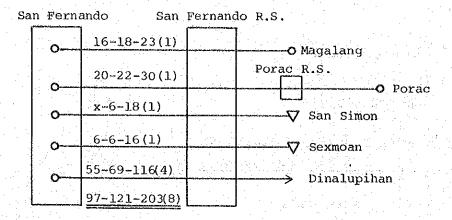
Fig. VII-2-1-1 (1/10) Number of Channels and Transmission Capacity between TSs (North of Manila)

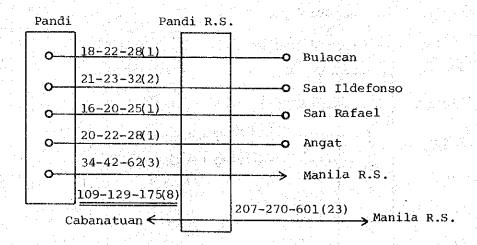




		r) Ramos	V Mayantoc	V Anao	San Mannel	Tannar manna		
Gerona	9	<b>)</b>						
	21-22-29(1)	x-6-16(1)	(T)81-9-x	x-6-6(1)	x-6-6(1)	21-46-75(5)	La Paz	
Tarlac R.S.								
Tar	21–22–29(1)	x-6-16(1)	x-6-18(1)	x-6-6(1)	x-6-6(1)		18-21-27(1)	39-67-102(6)
Tarlac	Č	<b>)</b>	) (	) (	) (	Red Starts		5

Fig. VII-2-1-1 (4/10) Number of Channels and Transmission Capacity between PC and LE (Tarlac PC Area)





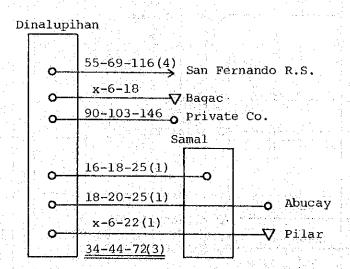


Fig. VII-2-1-1 (5/10) Number of Channels and Transmission
Capacity between PC and LE (San Fernando,
Pandi, and Dinalupihan PC Areas)

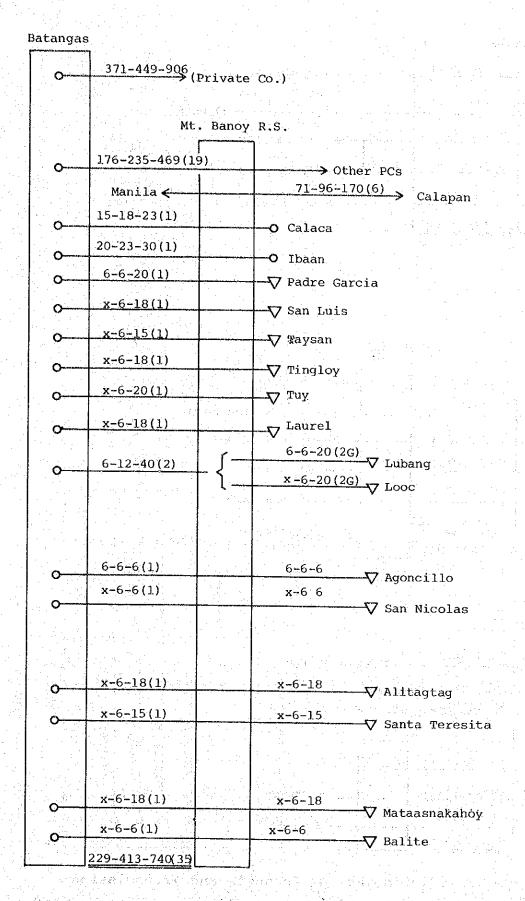
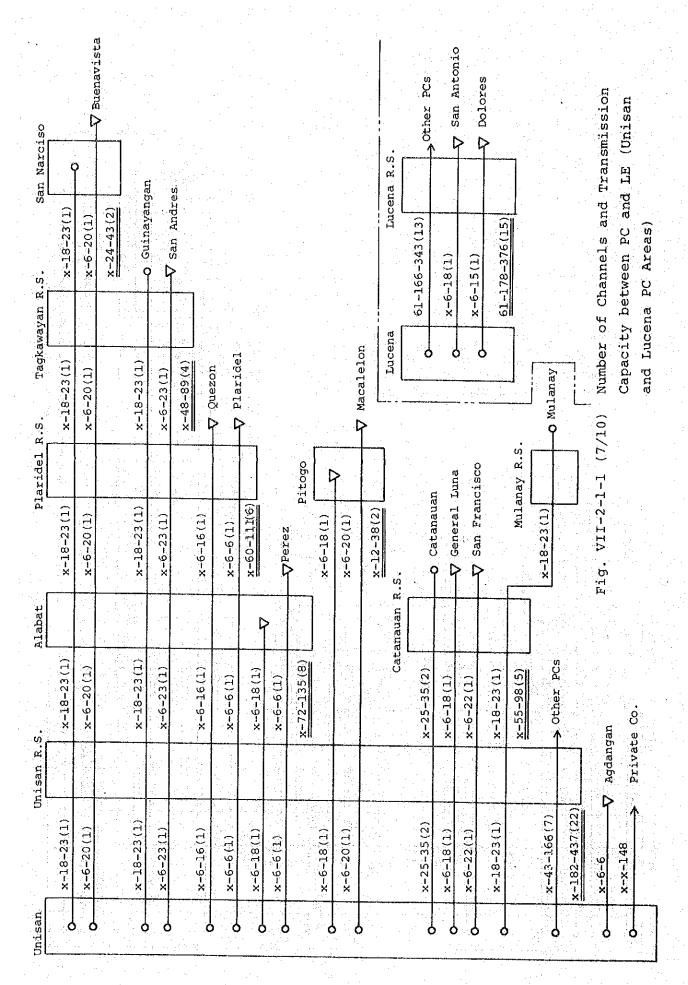
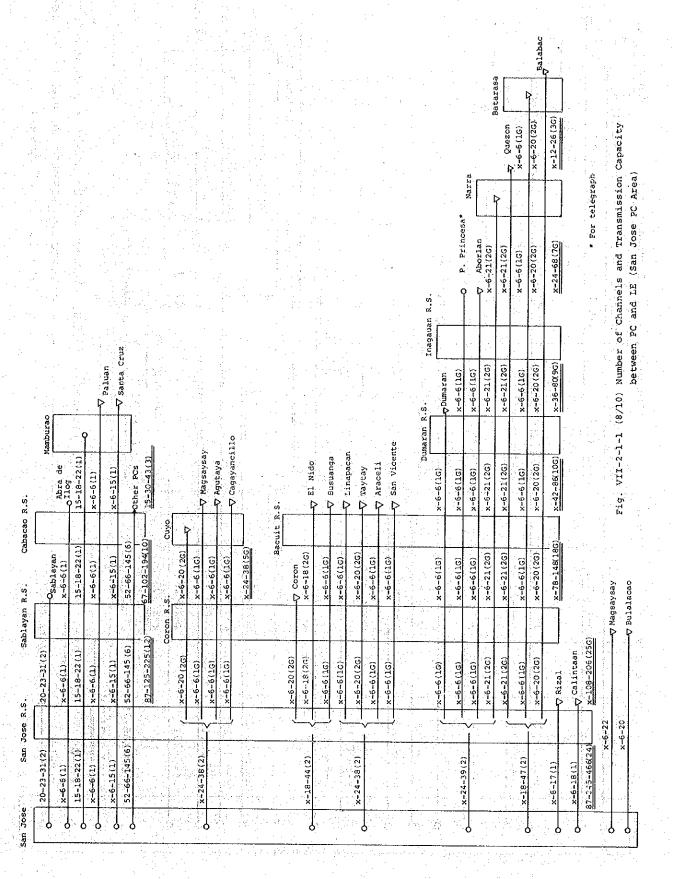


Fig. VII-2-1-1 (6/10) Number of Channels and Transmission

Capacity between PC and LE (Batangas PC Area)





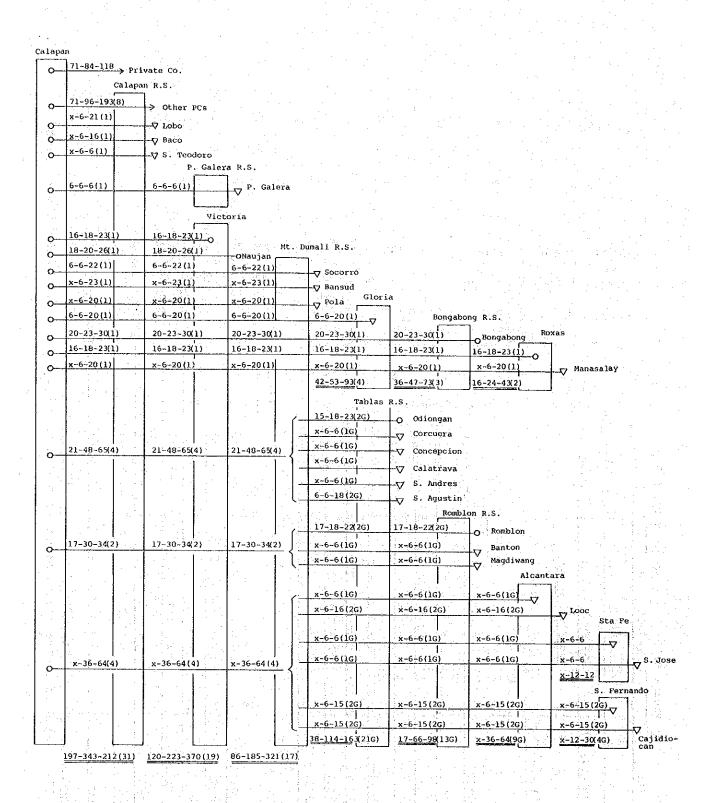


Fig. VII-2-1-1 (9/10) Number of Channels and Transmission Canacity between PC and LE (Calapan PC Area)

				Burdeos General Nakar Jumalig Panukulan	Patnanangan Polillo Real
S. Ternate Magallanes PCs in South		Siniloan Mabitac Pangil Pakil	Victoria Pila Rizal Polillo R.S.	x-6-21(1) x-6-6(1) x-6-6(1) x-6-18(1)	x-6-6(1) x-6-23(1) x-6-26(1) 7 42-106(7)
1) Mt. Gonzares R.S  1)  743(27) P 755(29)	aete R.S.				×II.
Manila R.S. Mt x-6-6(1) x-6-6(1) x-6-6(1) (27) (299-397-743(27) (299-409-755(29)		x-6-16(1) x-6-6(1) x-6-18(1)	x-6-23(1) x-6-25(1) x-6-6(1)	x-6-21(1) x-6-6(1) x-6-18(1)	x-6-6(1) x-6-23(1) x-6-26(1) x-6-26(1)
Manila x-6-6(1)  x-6-6(1)  299-397-743(27)	O 241-312-663(26)  x-6-18(1)	o x-6-16(1) o x-6-6(1) o x-6-18(1)	x-6-23(1) x-6-25(1) x-6-6(1)	0 x-6-21(1) 0 x-6-6(1) 0 x-6-6(1)	o x-6-6(1) o x-6-23(1) o x-6-26(1) 540-811-1642(70)

Fig. VII-2-1-1(10/10) Number of Channels and Transmission Capacity between PC and LE (Manila PC Area)

- Cable PCM system is to be employed for entrance to TS and LE.
- 2) Trunk cable system is to be employed for entrance to IPTS.
- (4) The following methods of connection are to be employed for connection between multiplex and exchange equipment.
  - 1) Connection of the exchange and multiplex equipment at TS and LE is to be made in principle by the primary block of PCM (30 telephone channels).
  - 2) Connection between the exchange and multiplex equipment at IPTS is to be made in voice channels.

The types of connection and the names of offices/stations in Phase I where these types of connection are to be employed are given in Table VII-2-1-1.

- (5) For the interconnection of FDM and PCM systems, the following principles have been applied.
  - 1) When the number of groups to be accommodated in the FDM system is five and the groups are to form a supergroup, one supergroup of FDM system and two primary blocks of PCM system are to be mutually converted.
  - 2) In cases other than item 1) above, FDM and PCM systems are to be connected by voice channels.

Table VII-2-1-1 Connection of Exchange Equipment with

Transmission Line

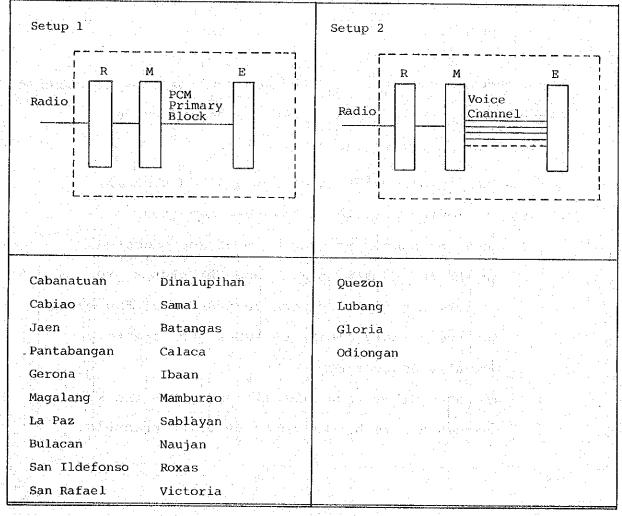
### Legend

Facilities to be installed at the same office.

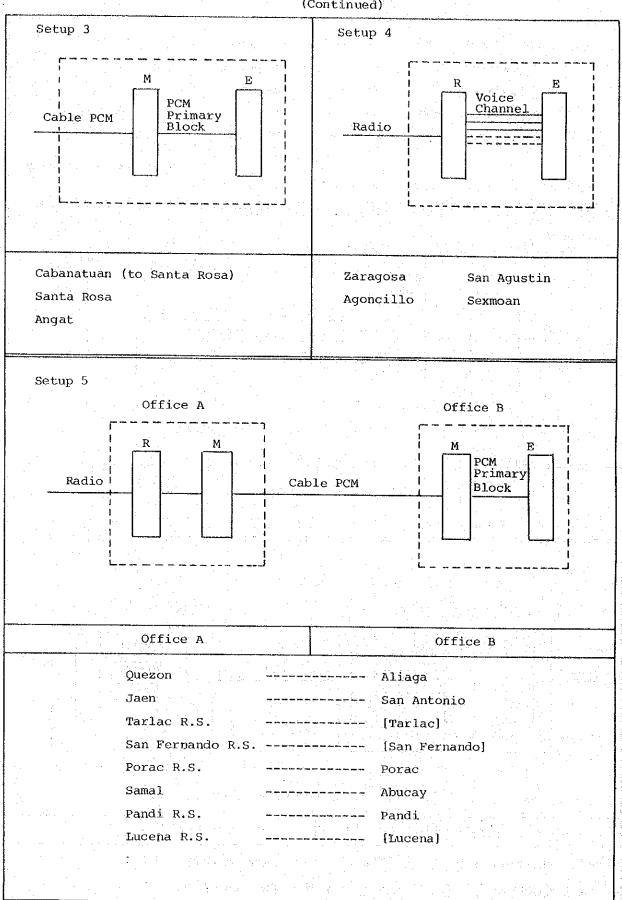
E: Exchange equipment

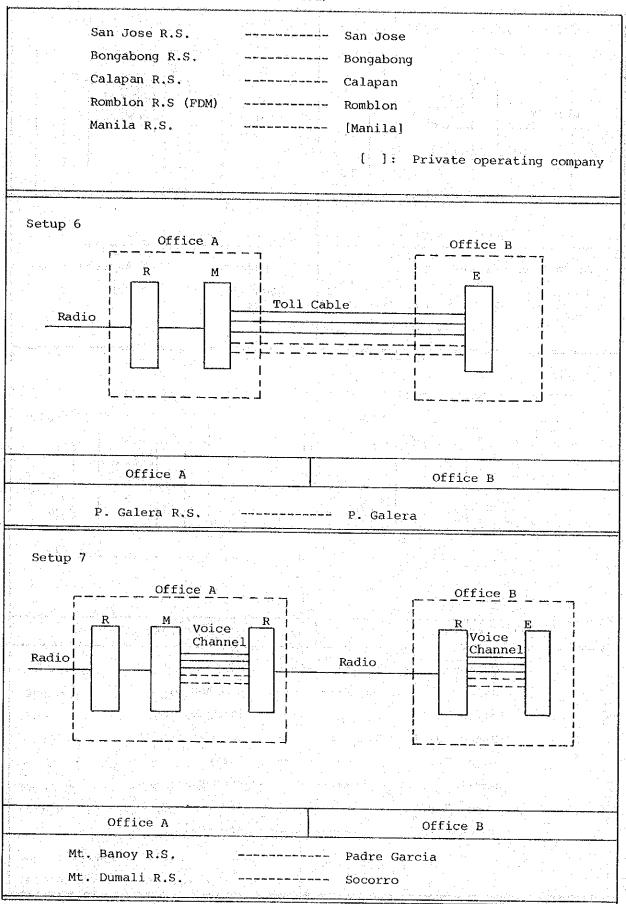
M: Multiplex equipment (in the case of 6-channel radio system, the multiplex equipment is to be incorporated in the radio equipment and thus symbol M is omitted.)

R: Radio equipment



(To next page)





### 2-2 Radio

# 2-2-1 SHF Route

# (1) Route selection

PLDT backborn transmission lines run to the north of Manila passing through Malolos, San Fernando and Tarlac and to the south from Manila through Tagaytay and San Pablo. Therefore, Batangas - Calapan - Romblon and Lecena - Marinduque - Tablas routes were designed in Phase I and San Jose - Tablas route was planned in Phase II by SHF system in this project.

Batangas - Calapan - Romblon route mainly aims at toll telephone service between cities and municipalities in Oriental Mindoro and those in Luzon, Tablas and Romblon islands as well as transmission of TV programs.

Lecena - Marinduque - Tablas - Kalibo route transmits telephone calls among cities and municipalities in Luzon, Marinduque, Tablas, Panay islands, etc., and at the same time constitutes to form a loop route to improve reliability of the national network. San Jose - Tablas route is designed as a back up system for the calls from Palawan and OCC, Mindoro.

In the site selection of the SHF route, consideration has been given to clear the first Fresnel zone at K=4/3. In this case, the tree height at the ridge is estimated to be 15 m in Region III and 20 m in Region IV so as

to obtain the required tower height.

The SHF route to be constructed in this project is shown in Fig. VII-2-2-1. The location, etc., of radio repeater stations are shown in Table VII-2-2-1.

The path profiles of individual spans are shown in Table VII-2-2-2 and Fig. VII-2-2-2.

# (2) System design

A 960-channel system is to be adopted for the SHF route and branching and insertion are to be made in UHF and VHF routes depending on the required number of total circuits.

The 960-channel radio system allows the transmission of one color TV signal and the Manila - Batangas - Calapan - Romblon route is to be furnished with necessary facilities for TV signal transmission. For the time being, the protection radio channel is to be used for TV signal transmission. If more demand is to be made for TV signal transmission, a radio channel or channels for TV signal transmission can be added.

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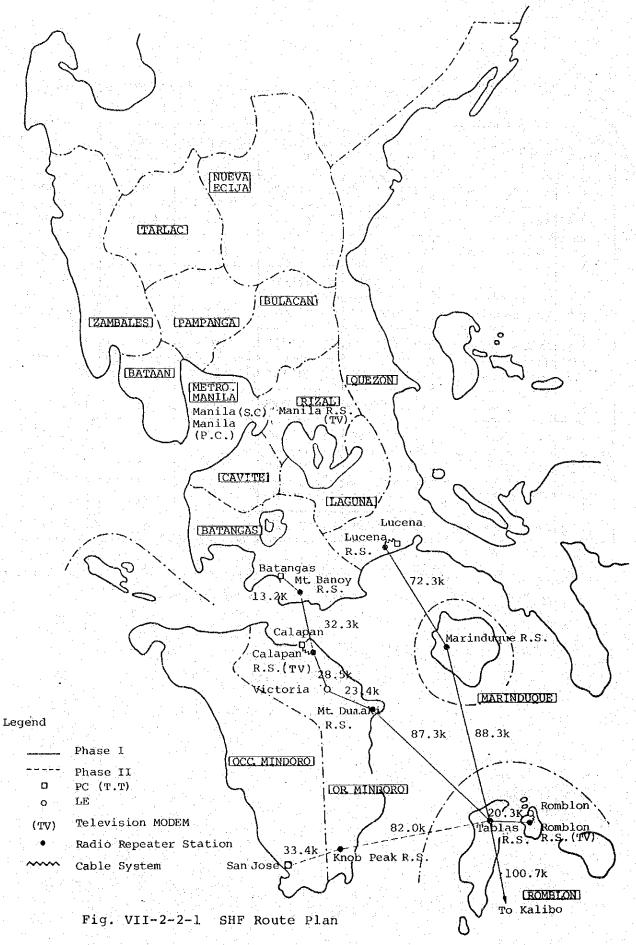


Table VII-2-2-1 Locations of SHF Radio Repeater Stations

Phase	R	epeater Station	Longitude (E)	Latitude (N)	Elevation (m)	Tower Height(m)	Map No.
	1	Mt. Banoy R.S.	121"09'50"	13°41'55"	968	30	3261 III
	2	Batangas	121°03'39"	13°45'44"	15	(20)	3261 III
	3	Calapan R.S.	121°12'29"	13°24'36"	120	40	3260 III
	4	Victoria	121°16'44"	13°09'41"	20	30	3259 II
	5	Mt. Dumali R.S.	121°29'03"	13°05'40"	390	30	3259 II
	6	Tablas R.S.	122°05'37"	12°34'46"	640	30	3457 IV
	7	Romblon R.S.	122°16'46"	12°33'44"	400	30	3457 I
	8	Lucena R.S.	121°36'35"	13°56'40"	20	30	3361 IV
	9	Marinduque R.S.	121°53'41"	13°21'13"	610	30	3360 II
	10	Kalibo	122°21'50"	11°42'30°	10	20	
ΙΙ	11	San Jose	121°03'51"	12°21'03"	10	20	3257 III
	12	Knob Peak R.S.	122°20'52"	12°27'57"	890	20	3257 II

Note: Figures in ( ) in the "Tower Height" column indicate the height of the existing tower.

Table VII-2-2-2 Profile List of SHF Spans

Phase	SHF Span	Relevant Fig	ure
	Mt. Banoy R.S Batangas	Fig.VIT-2-2-2	(1/17)
	Mt. Banoy R.S Calapan R.S.	do.	(2/17)
	Calapan R.S Victoria	do.	(3/17)
	Victoria - Mt. Dumali R.S.	do.	(4 /17)
H	Mt. Dumali R.S Tablas R.S.	do.	(5 /17)
	Tablas R.S Romblon R.S.	do.	(6 /17)
	Lucena R.S Marinduque R.S.	đo.	(7 /17)
	Marinaduque R.S Tablas R.S.	do.	(8/17)
	Tablas R.S Kalibo	do.	(9/17)
н	San Jose - Knob Peak R.S.	đo.	( 10/17)
H	Knob Peak R.S Tablas R.S.	do.	(11/17)

PATH PROFILE (4/3 RADIUS)

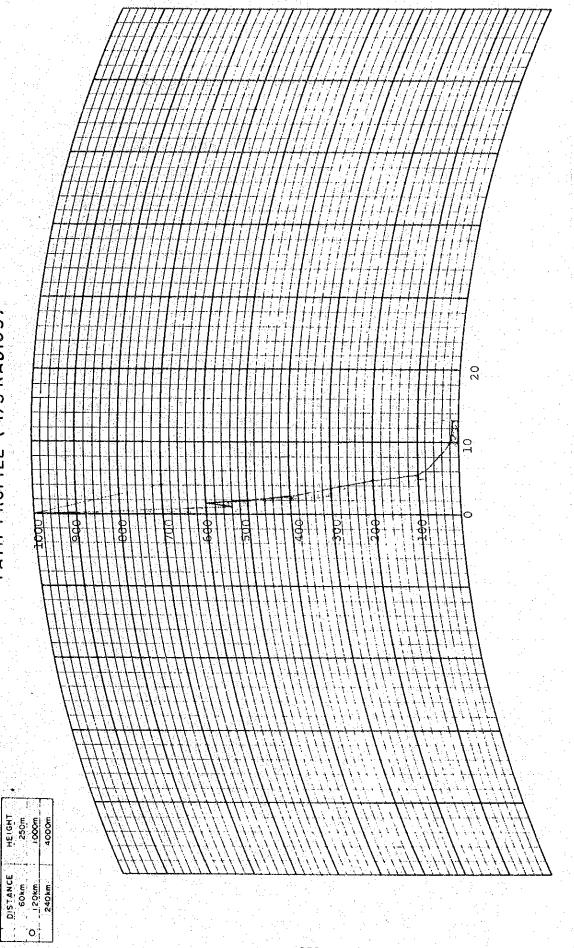
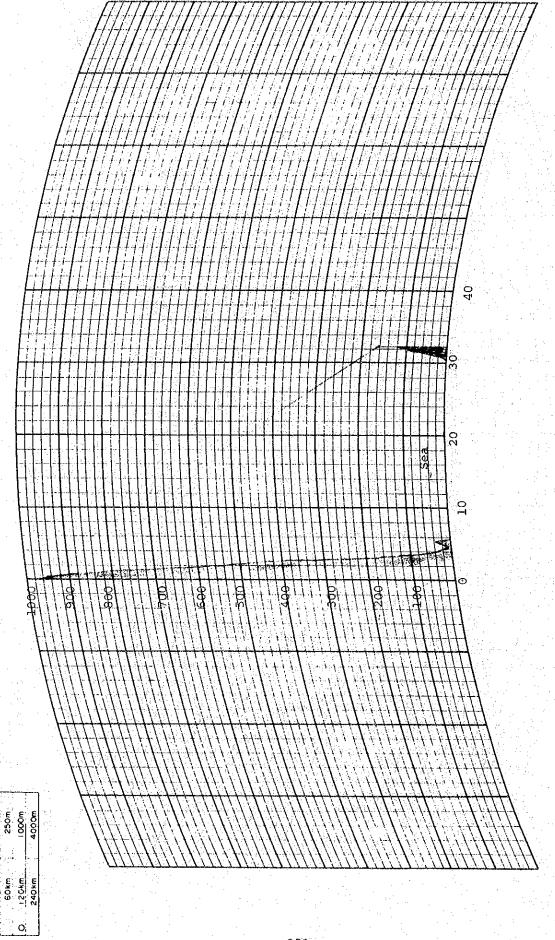


Fig. VII-2-2-2(1/17) GROUND ELEVATION: 968 Mt. Banoy R.S. ANTENNA HEIGHT

DISTANCE

15 Batangas GROUND ELEVATION: ANTENNA HEIGHT:

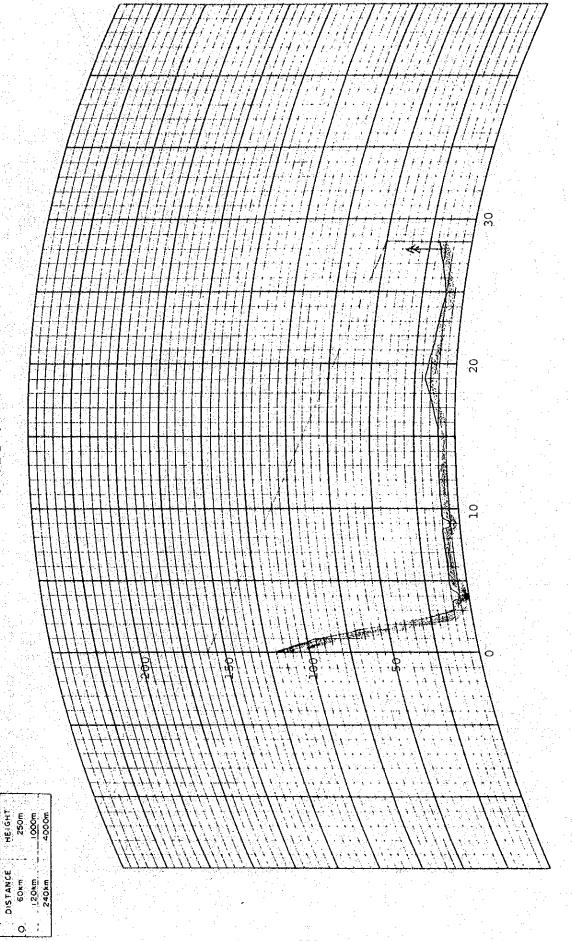
DISTANCE FULL SCALE



SITE Mt. Banoy R.S. 

DISTANCE

Calapan R.S. SITE CATADAN R.S. GROUND ELEVATION



20 m

GROUND ELEVATION.
ANTENNA HEIGHT

28.5 km

DISTANCE

Fig. VII-2-2-2(3/17)GROUND ELEVATION

ANTENNA HEIGHT \_\_

Victoria

SITE

PATH PROFILE (4/3 RADIUS)

FULL SCALE

DISTANCE

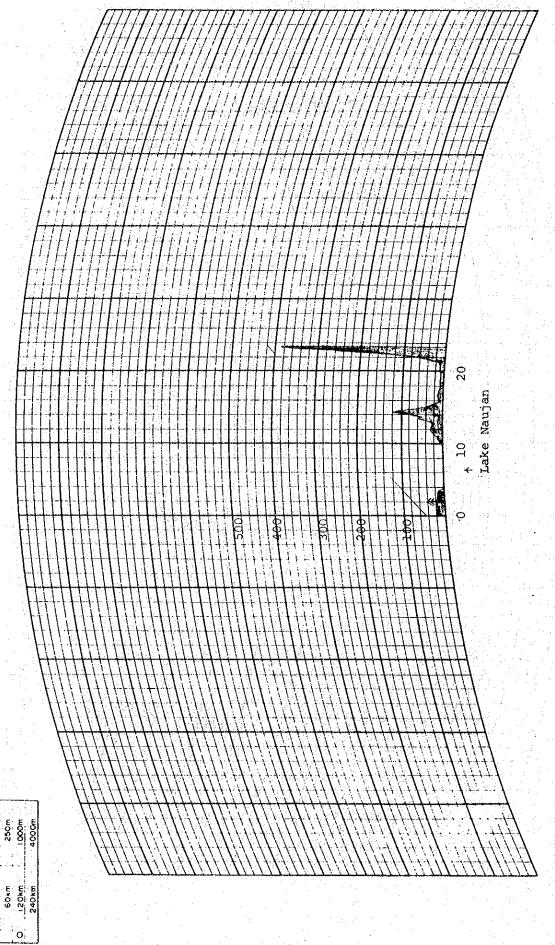


Fig. VII-2-2-2(4/17) GROUND ELEVATION: 20 m DIS

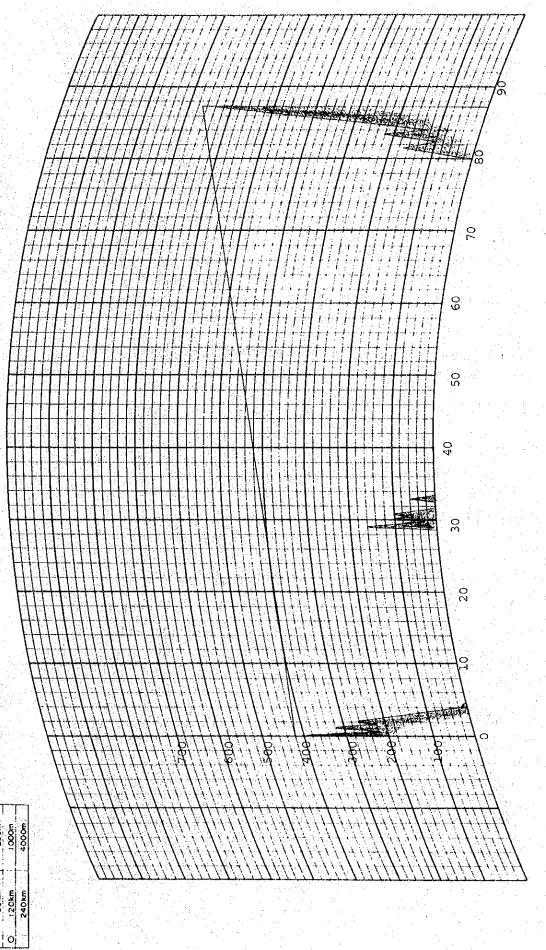
Victoria

DISTANCE: 23.4 km

SITE: Mt. Dumali R.S. GROUND ELEVATION: 390 m ANTENNA HEIGHT: 30 m

-253-

FULL SCALE



Tablas R.S.

GROUND ELEVATION ANTENNA HEIGHT

E

87.3

DISTANCE

390

ANTENNA HEIGHT

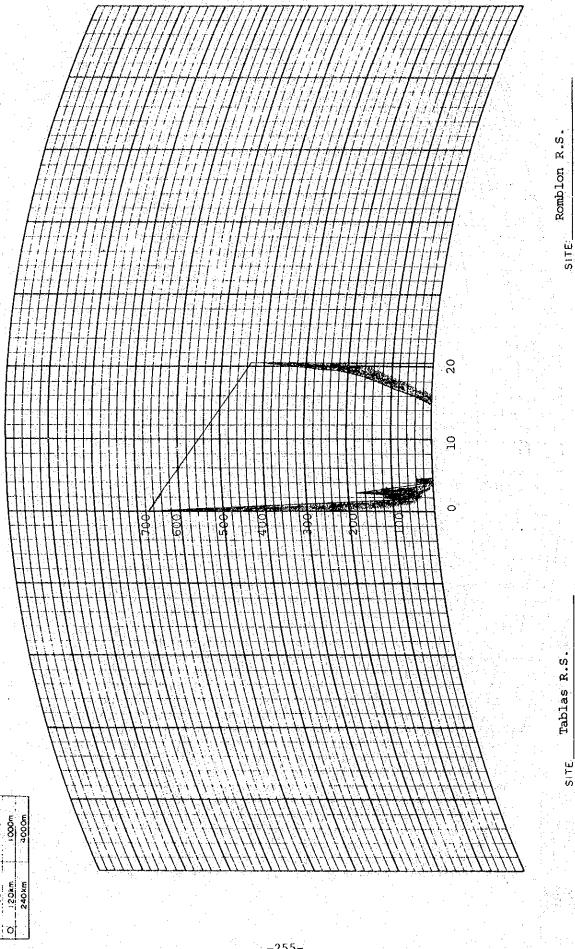
Fig. VII-2-2-2(5/17) GROUND ELEVATION

Mt. Dumali R.S.

HEIGHT

DISTANCE

FULL SCALE



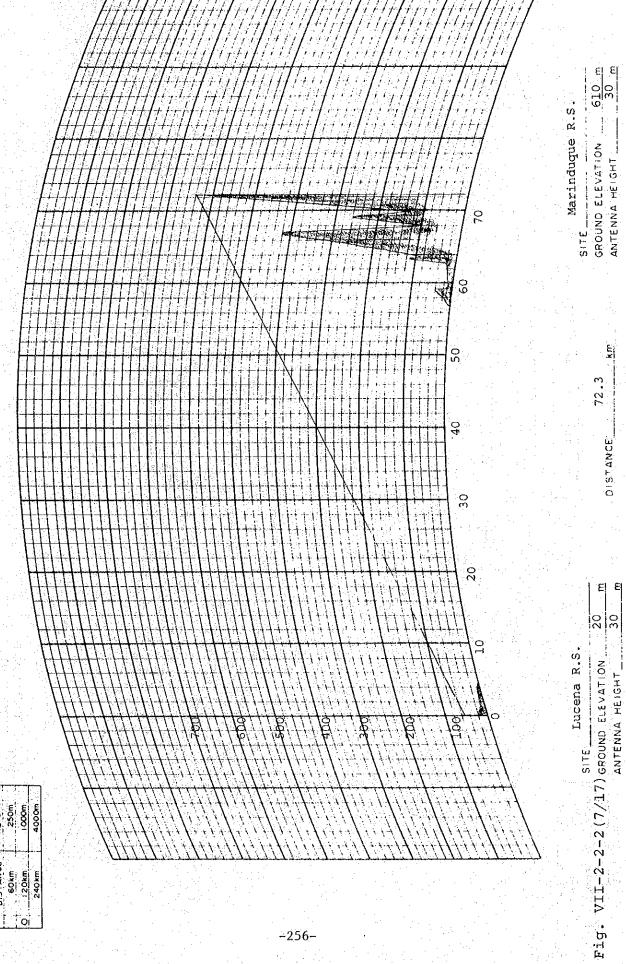
GROUND ELEVATION

DISTANCE

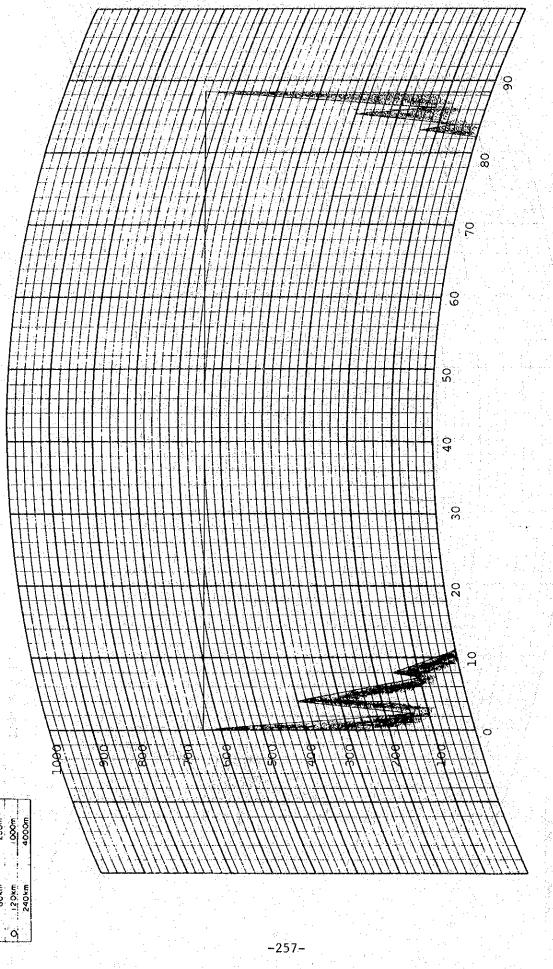
640 m

Fig. VII-2-2-2 (6/17) GROUND ELEVATION.

PATH PROFILE (4/3 RADIUS)



FULL SCALE



640 m 30 m

Tablas R.S.

GROUND ELEVATION ANTENNA HEIGHT

88.3

Marinduque R.S.

Fig. VII-2-2-2 (8/17) GROUND ELEVATION

ANTENNA HEIGHT: