

持田禁止

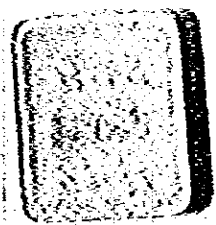
社会開発協力部

Handwritten text on the left edge of the page, likely bleed-through from the reverse side.

LIBRARY

SDH
79-60

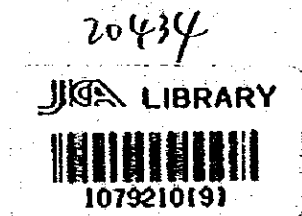
五洲大藥房
總發行所



613 JICA
75.7 JUNE 13, 1979
SDF

ホンデュラス共和国
テグシガルパ新空港建設計画
フィージビリティ調査

APPENDIX



昭和54年6月

国際協力事業団



国際協力事業団

20434

LIST OF APPENDICES

Appendix 1A	SCOPE OF WORKS
Appendix 2A	ECONOMIC AND TRANSPORT DATA
Appendix 2B	ANNUAL RECORDS OF TRANSPORT
Appendix 3A	LISTS OF PROJECTION FORMULA
Appendix 4A	STAGE LENGTH-PAYLOAD RELATIONSHIP
Appendix 4B	POSSIBLE FLIGHT SCHEDULE
Appendix 4C	HOURLY DISTRIBUTION OF PASSENGERS
Appendix 5A	ILS OPERATIONAL REQUIREMENT
Appendix 5B	AERONAUTICAL METEOROLOGICAL ANALYSIS
Appendix 5C	DRAWINGS OF SITES SCREENING
Appendix 5D	GRID MAP
Appendix 5E	FACILITY PLAN DRAWINGS
Appendix 5F	INSTRUMENT APPROACH AND DEPARTURE CHARTS

3/07/09

國際協力事業団

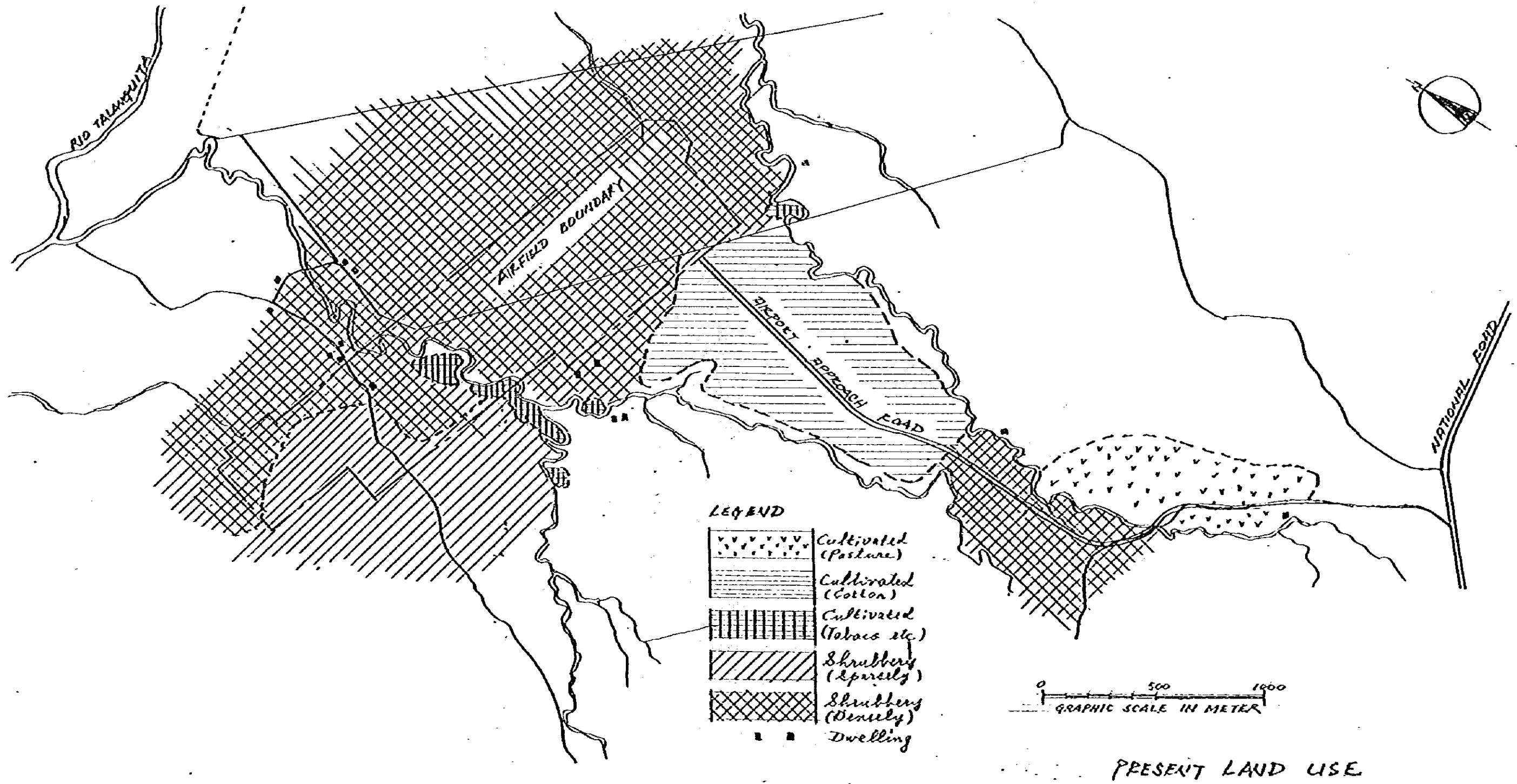
20434

LIST OF APPENDICES

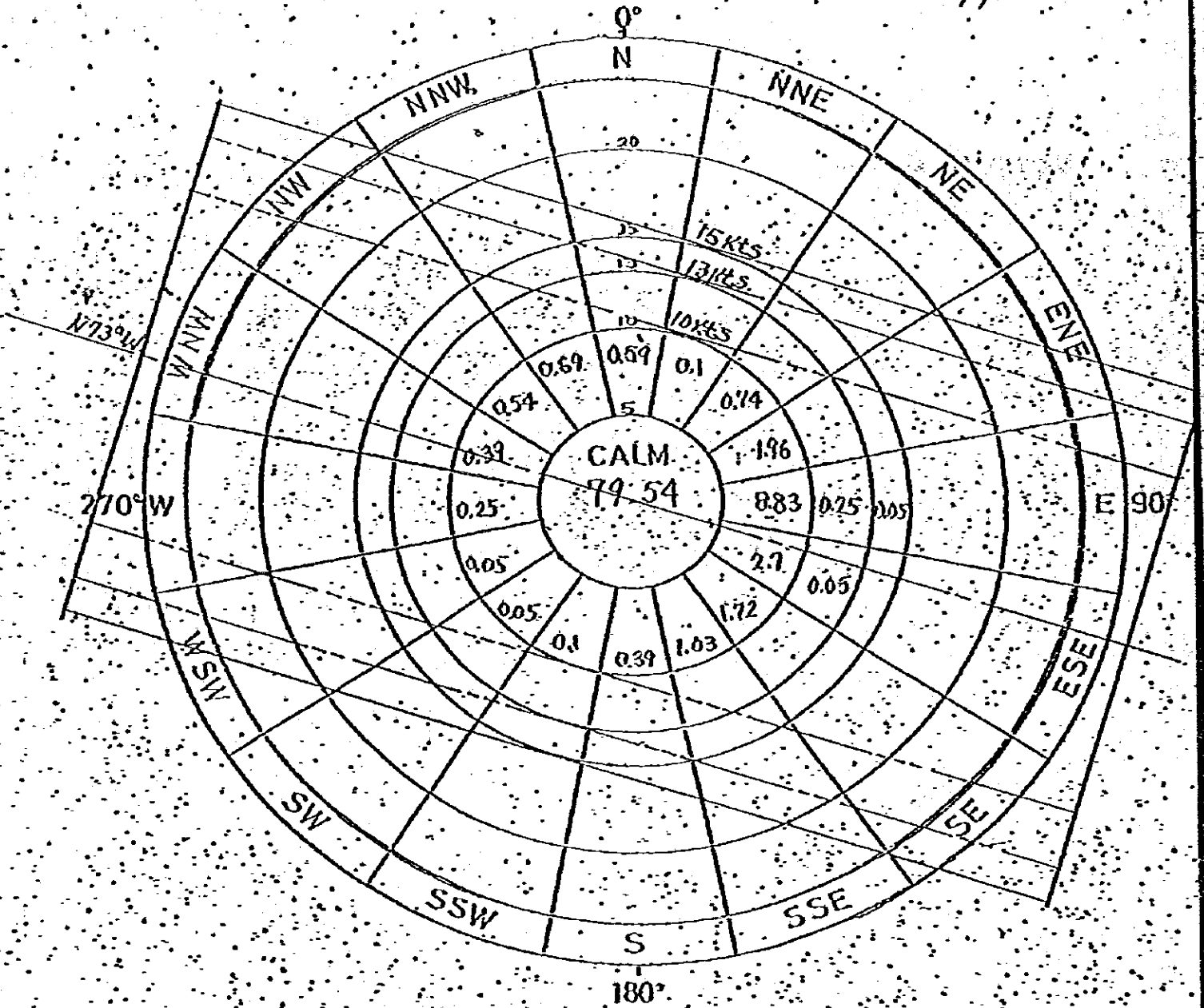
Appendix 1A	SCOPE OF WORKS
Appendix 2A	ECONOMIC AND TRANSPORT DATA
Appendix 2B	ANNUAL RECORDS OF TRANSPORT
Appendix 3A	LISTS OF PROJECTION FORMULA
Appendix 4A	STAGE LENGTH-PAYLOAD RELATIONSHIP
Appendix 4B	POSSIBLE FLIGHT SCHEDULE
Appendix 4C	HOURLY DISTRIBUTION OF PASSENGERS
Appendix 5A	ILS OPERATIONAL REQUIREMENT
Appendix 5B	AERONAUTICAL HETEOROLOGICAL ANALYSIS
Appendix 5C	DRAWINGS OF SITES SCREENING
Appendix 5D	GRID MAP
Appendix 5E	FACILITY PLAN DRAWINGS
Appendix 5F	INSTRUMENT APPROACH AND DEPARTURE CHARTS

310792109

Appendix 6A	PRESENT LAND USE
Appendix 6B	WIND ROSE AND CEILING-VISIBILITY
Appendix 6C	DRAWINGS OF AIRPORT FACILITY PLAN
Appendix 6D	INSTRUMENT APPROACH/DEPARTURE CHARTS OF NEW AIRPORT
Appendix 6E	WECPNL NOISE CONTOURS
Appendix 7A	GEOLOGICAL PROFILE
Appendix 7B	RESULT OF SOIL INVESTIGATION
Appendix 7C	PROPOSED QUARRY AND BORROW PIT
Appendix 7D	RUNWAY PROFILE & RUNWAY STRIP TYPICAL CROSS SECTION
Appendix 7E	DISTRIBUTION OF EARTHWORK
Appendix 7F	PAVEMENT STRUCTURE



STATION: EL ESPINO Appendix: x6b-1

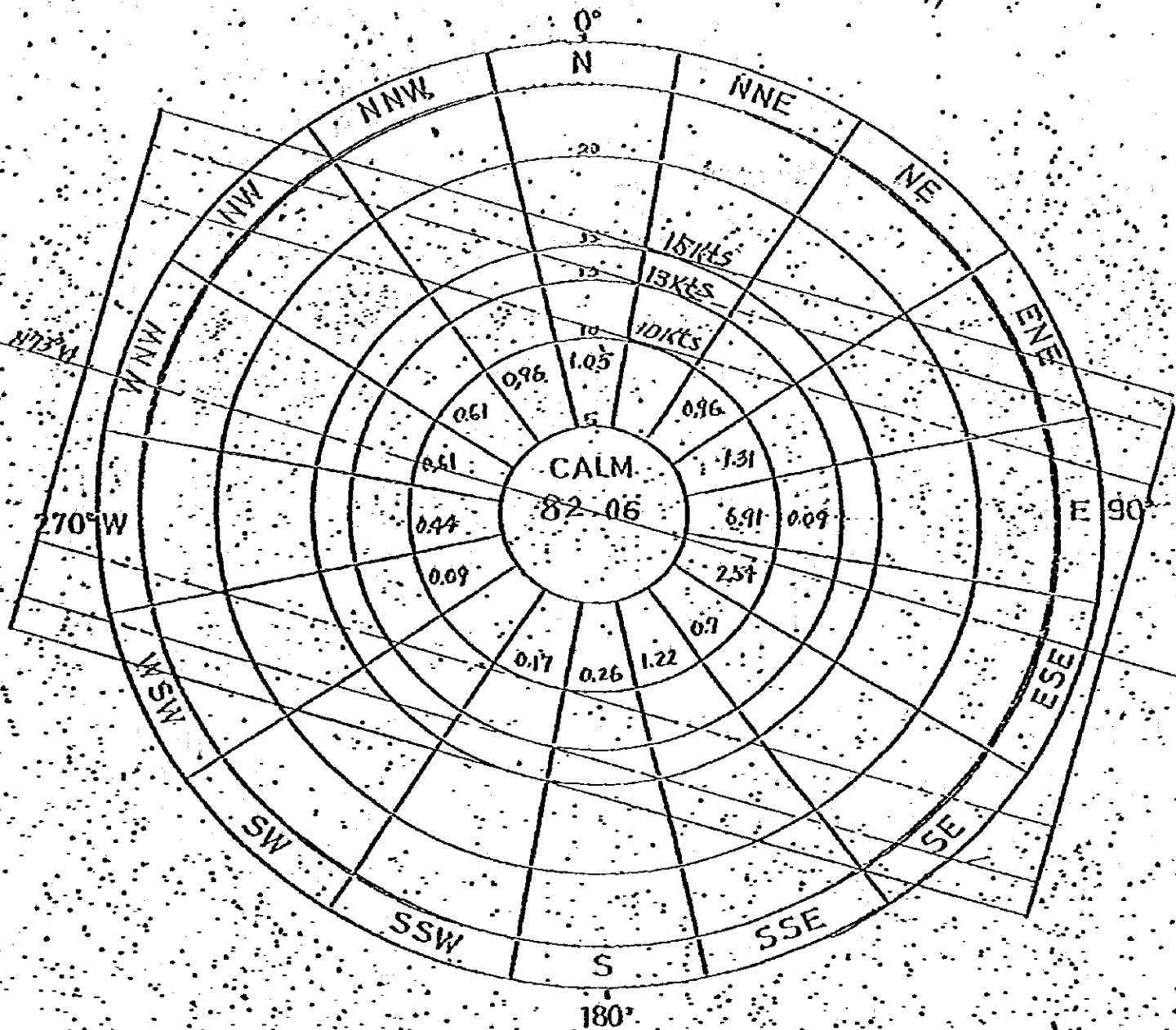


ANNUAL (9 MONTHS)
(FEB. APR. OCT. MISSING)

CROSS WIND COMPONENT; 15 knots 100%
13 knots 100%
10 knots 100%

FIG RUNWAY WIND COVERAGE

STATION: EL ESPINO Appendix 6B-2



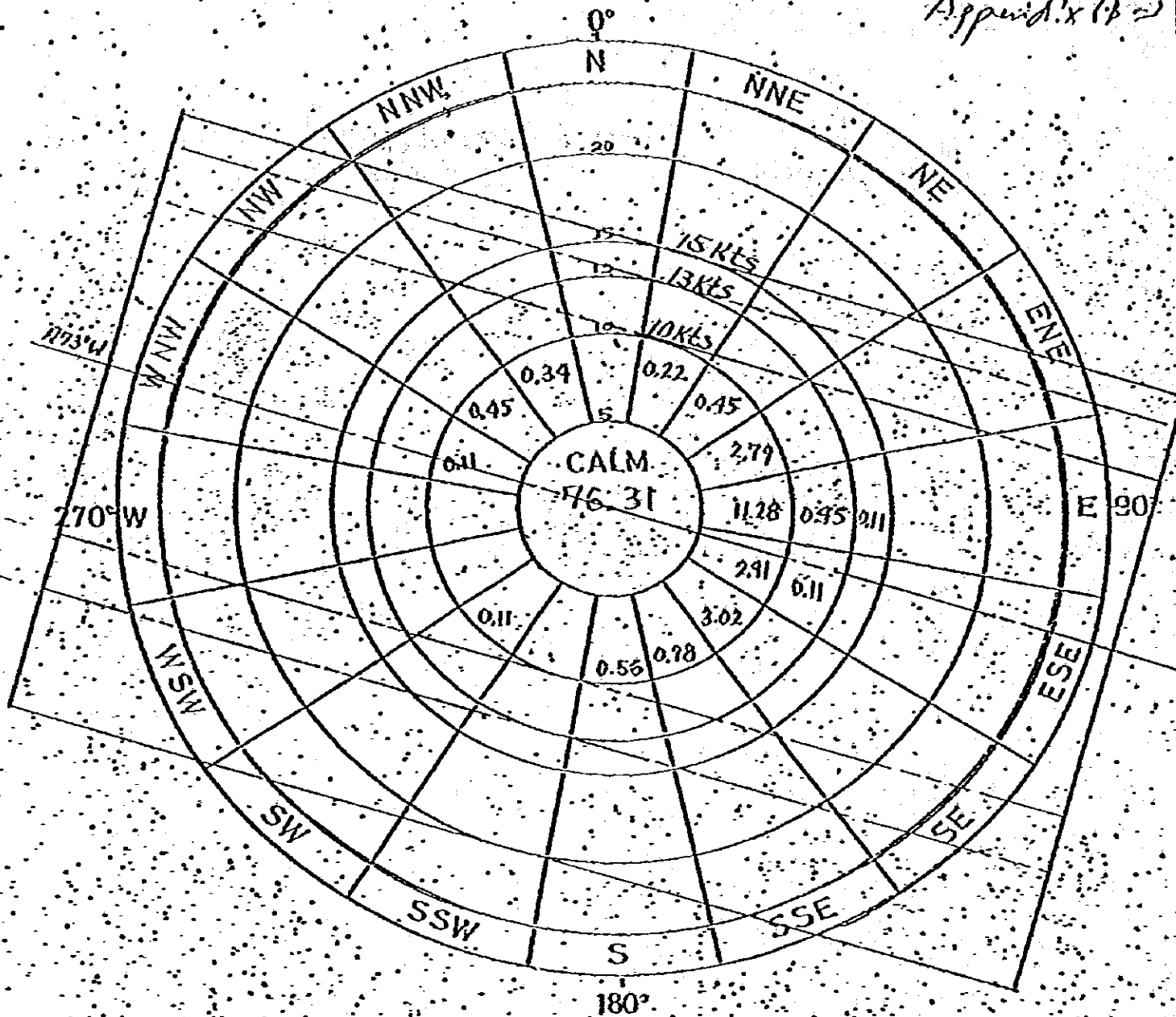
DRY SEASON (DECEMBER, JANUARY, MARCH, MAY)
(FEBRUARY & APRIL MISSING)

CROSS WIND COMPONENT; 15-Knots 100%
13-Knots 100%
10-Knots 100%

FIG. RUNWAY WIND COVERAGE

STATION: EL ESPINO

Appendix (A)



WET SEASON (JUNE, JULY, AUGUST, SEPTEMBER, NOVEMBER)
(OCTOBER MISSING)

GROSS WIND COMPONENT: 15 Knots 100%

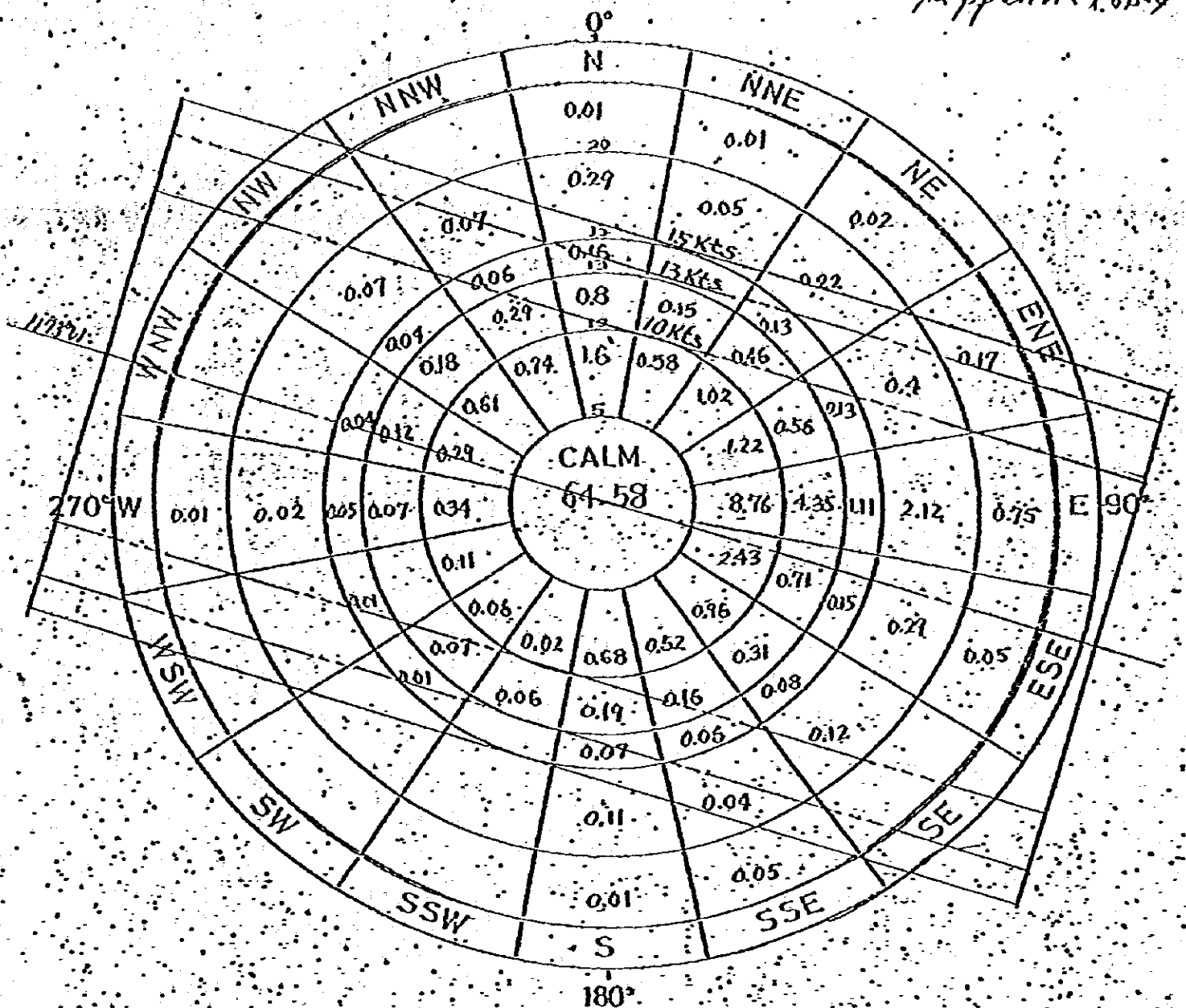
13 Knots 100%

10 Knots 100%

FIG. RUNWAY WIND COVERAGE

STATION: LA ERMITA

Append: X6B-y



ANNUAL 1978-1979

CROSS WIND COMPONENT ; 15 Knots 99.33%

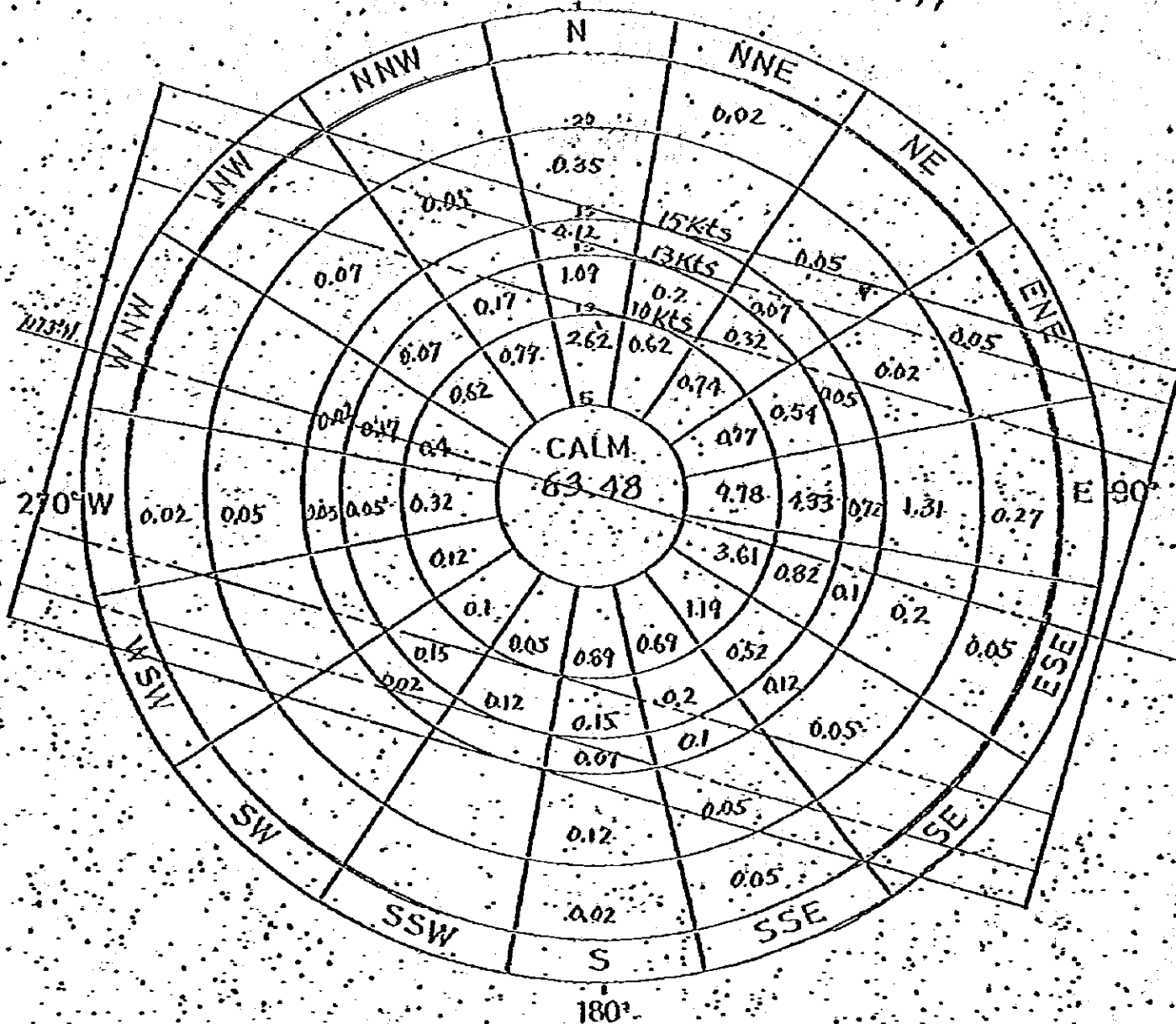
13 Knots 98.82%

10 Knots 96.71%

FIG. RUNWAY WIND COVERAGE

STATION: LA ERMITA

Appendix 6D-5



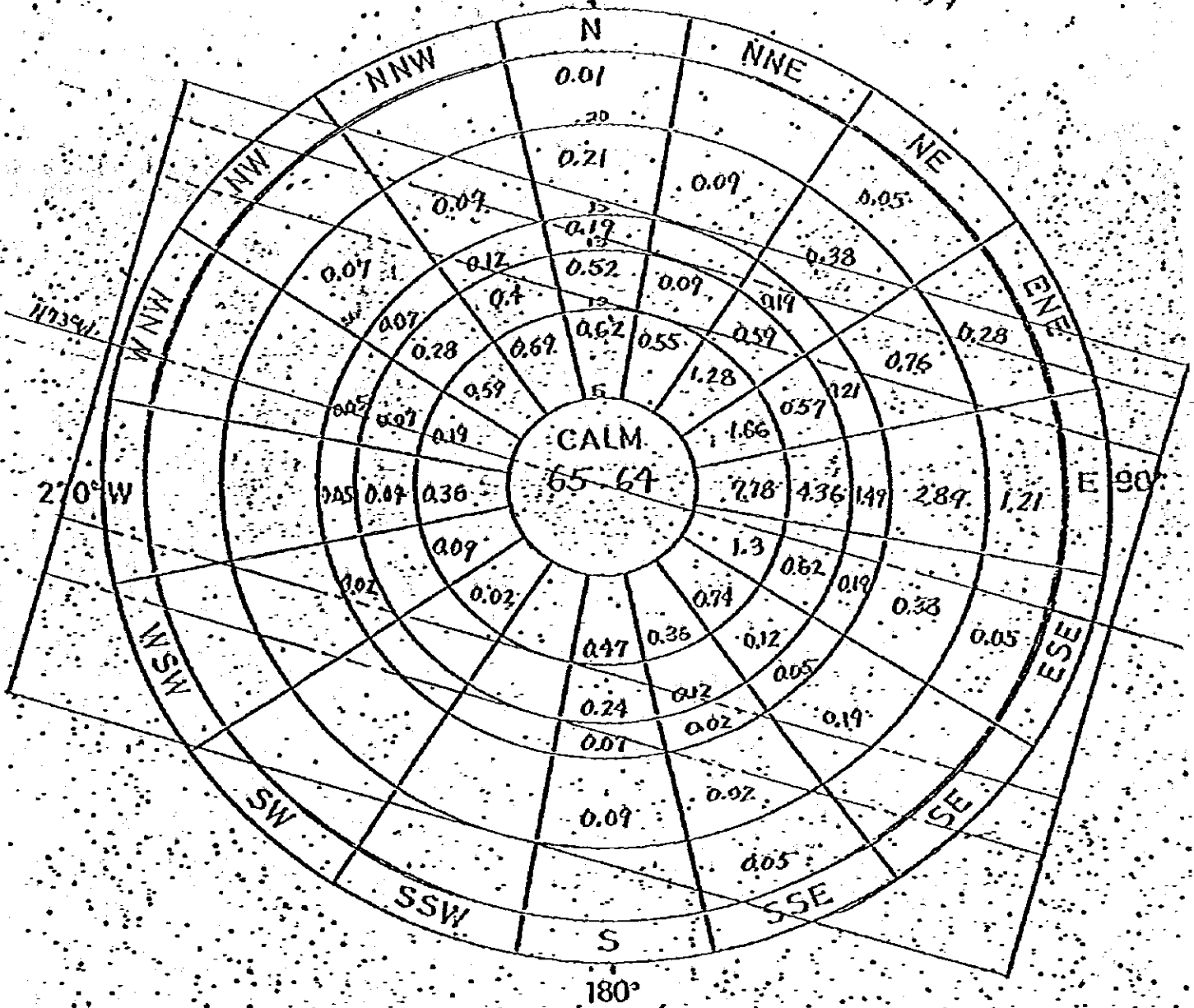
DRY SEASON (DECEMBER, JANUARY, FEBRUARY, MARCH, APRIL, MAY)

CROSS WIND COMPONENT; 15 Knots 99.46%
 13 Knots 99.15%
 10 Knots 97.08%

FIG. RUNWAY WIND COVERAGE

STATION: LA ERMITA

Appendix B. 6



WET SEASON (JUNE, JULY, AUGUST, SEPTEMBER, OCTOBER, NOVEMBER)

- CROSS WIND COMPONENT; 15 Knots 99.23%
- 13 Knots 98.61%
- 10 Knots 96.27%

FIG. RUNWAY WIND COVERAGE

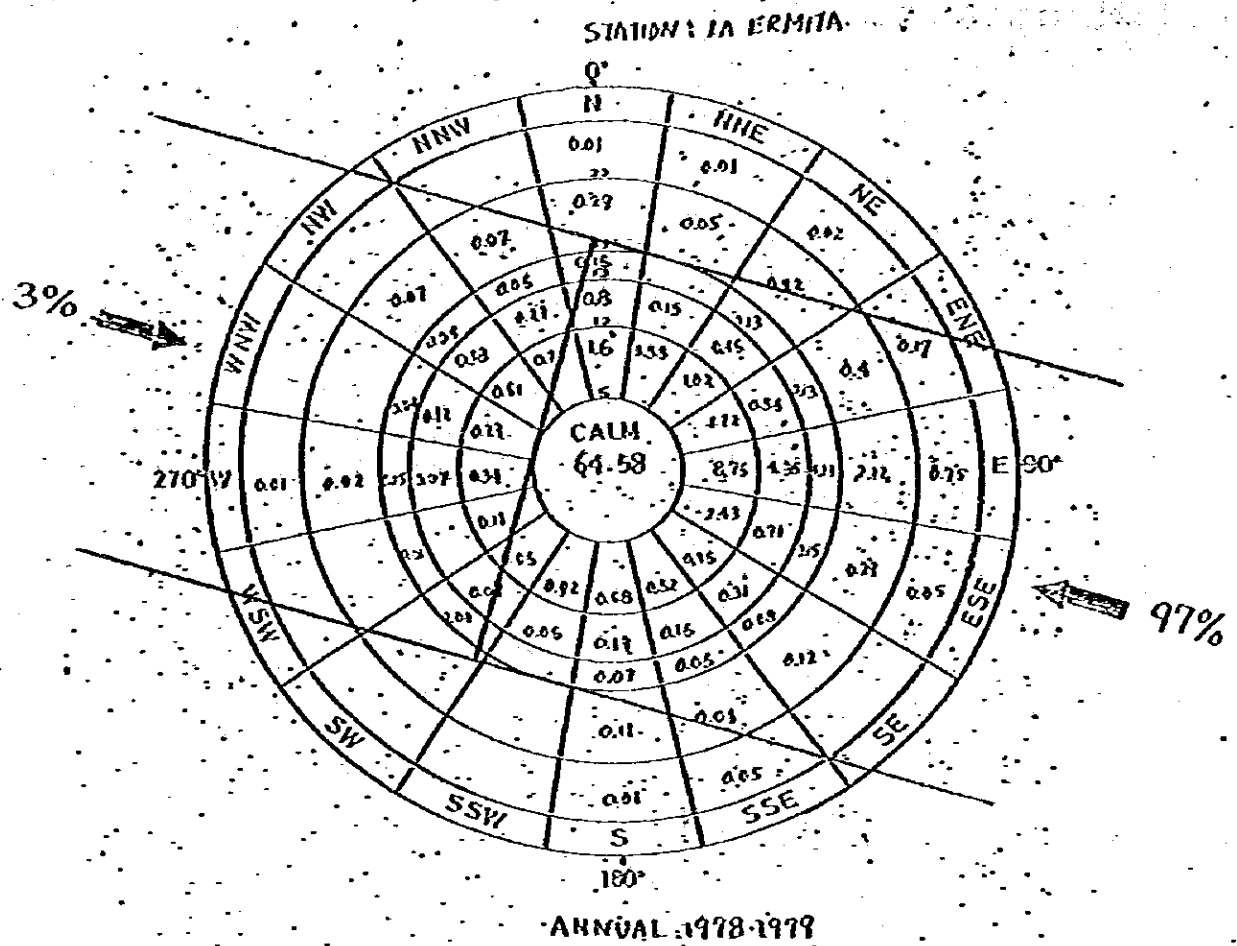


FIG. 1.1. PREVAILING WIND CONDITION

YEAR: 1978

ANNUAL
Average

STATION: LA ERMITA

VISIBILITY (meters x 100) less	CEILING (feet)																TOTAL	%					
	1	2	4	6	8	10	12	14	16	20	24	26	32	36	40	48			64	80	90	112	150
50 or less	1	2	4			3			2														12
100																		1					1
200																			2				3
300																		1					1
400																			1				1
500																				2			2
600																							
700																							
800																							
900																							
1,000																							
1,100																							
1,200																							
1,300 ~ 1,500									5		4					9	16	1	26	14		210	
1,600 ~ 2,000									4		4					14	43	8	94	47		2046	
2,100 ~ 3,000									4							10	19		22	11		759	
3,100 ~ 5,000									1							6	23	1	18	16		505	
5,100 ~ 10,000									3							16	23		31	10		914	
10,000 or more									1							22	59	7	57	40		3007	
Cloud layer 5/8 or more	7	4	5	3	1	2	16		11		24					77	103	18	250	142		744	
TOTAL	9	9	8	8	2	6	31		28		144					673	222	622	303	172		9213	
%	0.11	0.11	0.1	0.02	0.07	0.38			0.34		0.53					7.3	2.2	0.22	3.03	1.72		100.1	

CEILING 300 FT. - VISIBILITY 800M 99.47%

TABLE 2.1. ~~REASONING OF CEILING AND VISIBILITIES~~
RUNWAY USEABILITIES.

WET SEASON

6-7-8-9-10-11

YEAR: 1978

MONTHS

STATION: LA ERMITA

VISIBILITY (feet)	1	2	4	6	8	10	12	14	16	20	24	26	32	36	40	48	64	80	90	112	160	200 or more	TOTAL	%
50 or less	1	2	4	6	8	10	12	14	16	20	24	26	32	36	40	48	64	80	90	112	160	200 or more	2	0.19
100	1	2	4	6	8	10	12	14	16	20	24	26	32	36	40	48	64	80	90	112	160	200 or more	1	0.02
200	1	2	4	6	8	10	12	14	16	20	24	26	32	36	40	48	64	80	90	112	160	200 or more	3	0.07
300																								
400																								
500																								
600																								
700																								
800																								
900																								
1,000																								
1,100																								
1,200																								
1,300 ~ 1,500						2				1		1			5	7		19	13			157	204	4.88
1,600 ~ 2,000										1		1			5	23		43	37			134	1455	34.5
2,100 ~ 3,000																						269	271	6.43
3,100 ~ 5,000					3					1					1	4		12	8			329	370	8.77
5,100 ~ 10,000																4						69	703	16.79
10,000 or more																						155	1193	28.29
Cloud layer 5/8 or less	2	3				4				1		3			12	42		1	24	78		396	4217	
TOTAL	17	65	102	107	119	138				109		14			128	10		102	197	185		9391		100
%	0.02	0.17	0.15	0.12	0.07	0.19				0.09		0.14			0.28	1.0		0.02	1.97	1.85		93.91		

Cloud layer 5/8 or more

99.45%

CEILING 300FT • VISIBILITY-800m

~~REASON FOR CEILING VISIBILITIES~~

TABLE 2.3. RUNWAY USEABILITIES

STATION: LA BERTHA

ANNUAL MONTHLY

YEAR: 1978 1979

CEILING (feet)	1	2	4	6	8	10	12	14	16	20	24	26	32	36	40	48	64	80	90	112	150	% of total	TOTAL	%
50 or less	1	2	4		3				2														12	0.5
100																		1					1	0.01
200																		1	2				3	0.04
300																								
400																		1					1	0.01
500																								
600																			2				2	0.02
700																								
800																								
900																								
1,000																								
1,100																								
1,200																								
1,300 ~ 1,500					4				5			4		9	16	1						210	230	3.51
1,600 ~ 2,000	2	1			4				3			4		14	43	8						2048	2263	27.91
2,100 ~ 3,000					4				5			7		10	19	22						757	834	10.1
3,100 ~ 5,000					1				2			4		6	23	1						503	533	7.06
5,100 ~ 10,000					3				1			1		16	23							514	1001	12.12
10,000 or more	1	2			1				11			24		22	59	7						3007	3265	39.53
Cloud layer 5/8 or more	7	4	5	3	1	2	16		28			444		77	103	18						700	7256	89.16
TOTAL	9	9	8	2	6	31			0.39			0.33		0.73	2.22	0.22						9215	100	
%	0.11	0.11	0.1	0.02	0.07	0.38																		

CEILING 300FT. VISIBILITY 3200K 98.16%
 2,400K 98.69%

~~REASON FOR CEILING VISIBILITIES~~
 RUNWAY VISIBILITIES

TABLE 2.4.

WET SEASON
 6-7-8-9-10-11
 YEAR: 1978
 STATION: LA ERMITA
 MONTH:

CEILING (feet)	1	2	4	6	8	10	12	14	16	20	24	26	32	36	40	48	64	80	90	112	160	200	TOTAL	%
50 or less	1	2	4																				2	0.19
100																							1	0.02
200																							3	0.07
300																								
400																								
500																								
600																								
700																								
800																								
900																								
1,000																								
1,100																								
1,200																								
1,300 ~ 1,500																5	7	19	13				157	206.488
1,600 ~ 2,000																5	7	13	37				194	195.845
2,100 ~ 3,000																							264	271.643
3,100 ~ 5,000																							229	370.377
5,100 ~ 10,000																							696	763.1679
10,000 or more																							1153	1193.2829
Closed by 5/8 or more																							3960	4217
TOTAL	1	7	6	5	3	8				4	6				12	42	1	24	78				9391	100
%	0.02	0.17	0.15	0.12	0.07	0.19				0.09	0.14				0.28	1.0	0.02	1.99	1.85				98.92	99.08

Cloud layer 5/8 or more

CEILING 800 FT • VISIBILITY 3200 M --- 98.92%
 2400 M --- 99.08%

TABLE 2.6. ~~NEED FOR CEILING AND VISIBILITIES~~
 RUNWAY USE ABILITIES.

YEAR: 1978
1979

ANNUAL
PROCESSES

STATION: LA BERMITA

VISIBILITY (meters x 100)	CEILING (feet)																TOTAL	%								
	1	2	3	4	5	8	10	12	14	16	20	24	28	32	36	40			48	64	80	90	112	160	240 or more	
50 or less	1	2	4				3			2														12	0.15	
100																								1	0.01	
300																								3	0.04	
500																								1	0.01	
1000																								1	0.01	
1500																								2	0.02	
2000																										
3000																										
5000																										
10000 or more																										
Cloud layer 5/8 or more																										
1300 ~ 1500																								210	290	351
1600 ~ 2000																								2046	2263	2741
2100 ~ 3000																								757	834	101
3100 ~ 5000																								505	582	706
5100 ~ 10000																								514	1001	1212
10000 or more																								3007	3265	3955
Cloud layer 5/8 or less																								744	8256	
TOTAL																								9813		100
%																										

CEILING: 1,200 FT. - VISIBILITY 3,200M --- 98.16%
 2,400M --- 98.69%
 TABLE 2.7. ~~REASON FOR CEILING AND VISIBILITIES~~
 RUNWAY USE ABILITIES

WET SEASON

6-7-8-9-10-11

MONTHS: YEAR: 1978

STATION: LA ERMITA

CEILING (feet)	VISIBILITY (meter x 100)	1	2	4	6	8	10	12	14	16	20	24	28	32	36	40	48	64	80	90	112	160	240 or more	TOTAL	%
50 or less	/	/	4																					2	0.19
100	/																							1	0.02
200																								3	0.07
300																									
400																									
500																								2	0.05
600																									
700																									
800																									
900																									
1,000																									
1,100																									
1,200																									
1,300 ~ 1,500		2	1							1	1					5	7	19	13				157	206	4.85
1,600 ~ 2,000		2								1	1					5	23	43	37				199	1955	345
2,100 ~ 3,000																	1						269	271	6.43
3,100 ~ 5,000				1		3	1			1						1	4		12	8			229	370	8.77
5,100 ~ 10,000		2								1							4		1	2			696	708	16.79
10,000 or more		2								1							3		7	14			155	1193	28.29
Cloud layer 5/8 or more		2	3			4				1	3						12	42	1	84	78		396	4217	
TOTAL		17	6	5	3	8				4	6						28	10	0.02	1.99	1.85		959		100
%		0.02	0.17	0.15	0.12	0.07	0.19			0.09	0.14						0.28	1.0	0.02	1.99	1.85		95.91		

Cloud layer 5/8 or more

CEILING 1,200 FT - VISIBILITY 3,200 --- 98.92%
 2,400 --- 99.08%

TABLE 2.9. ~~Runway Usability~~ ~~Runway Usability~~
 RUNWAY USABILITY

Appendix 6C

Drawings of Airport Facility Plan

(縮小、製作中)

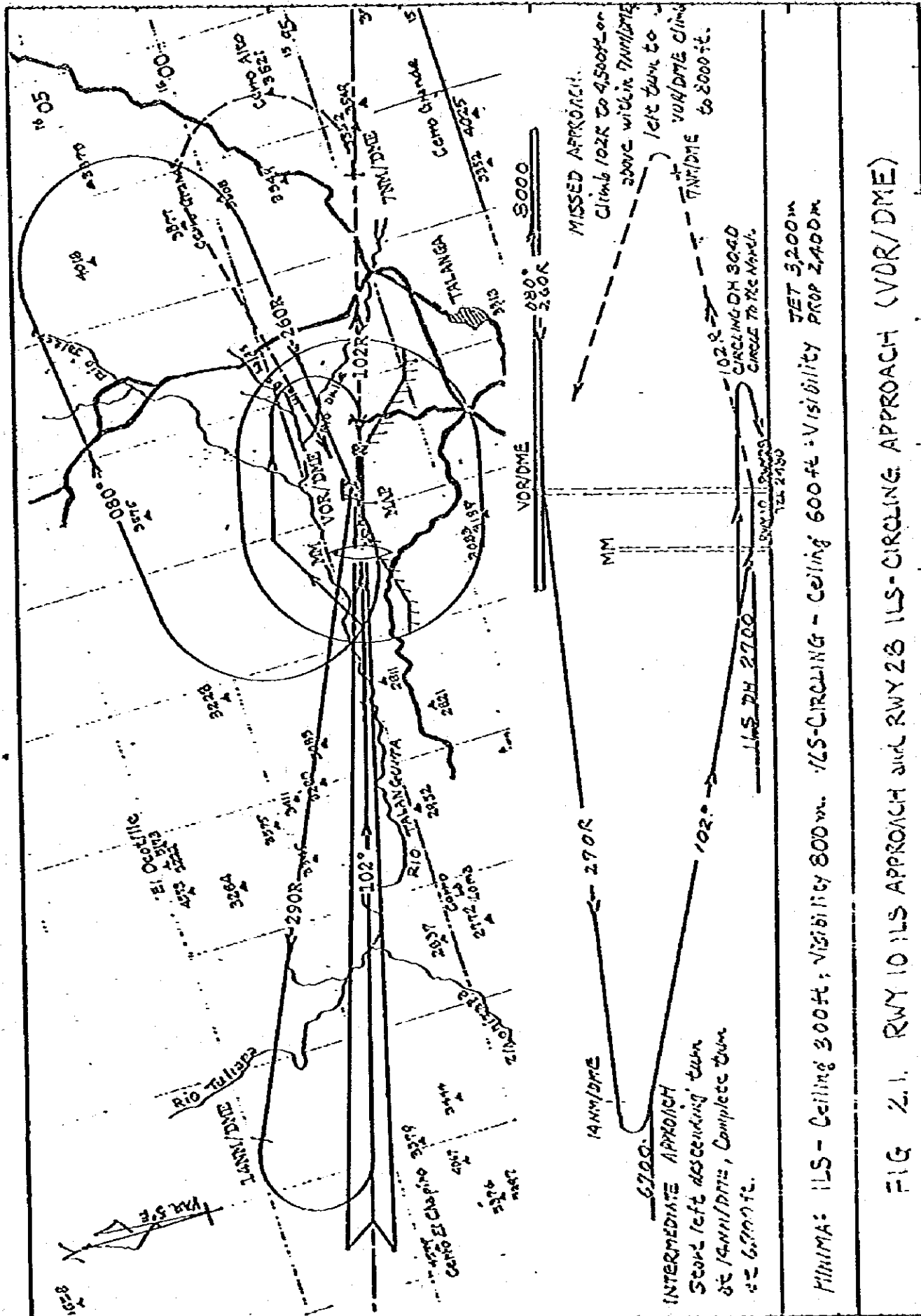
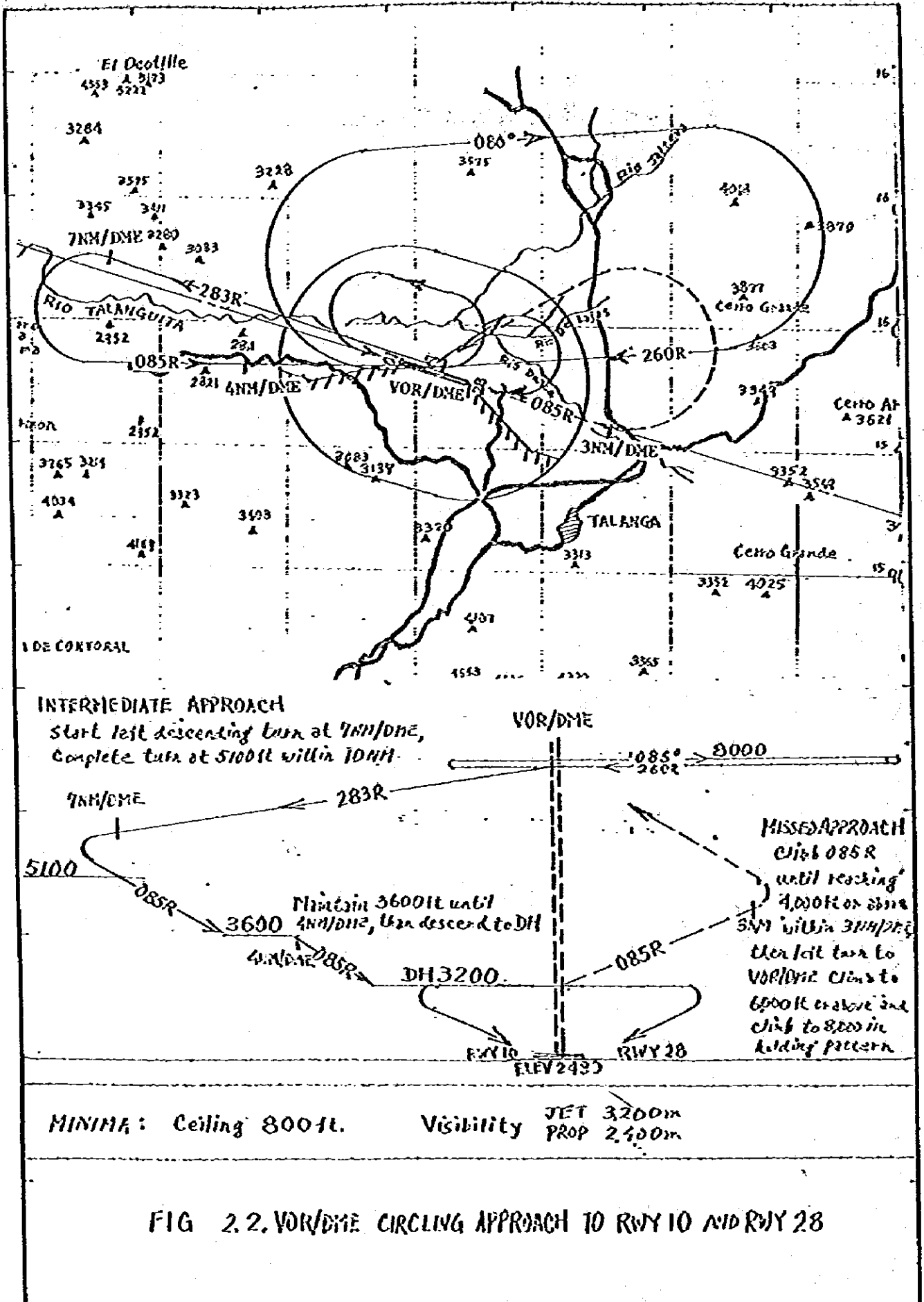


FIG 2.1. RWY 10 ILS APPROACH and RWY 28 ILS-CIRCLING APPROACH (VOR/DME)



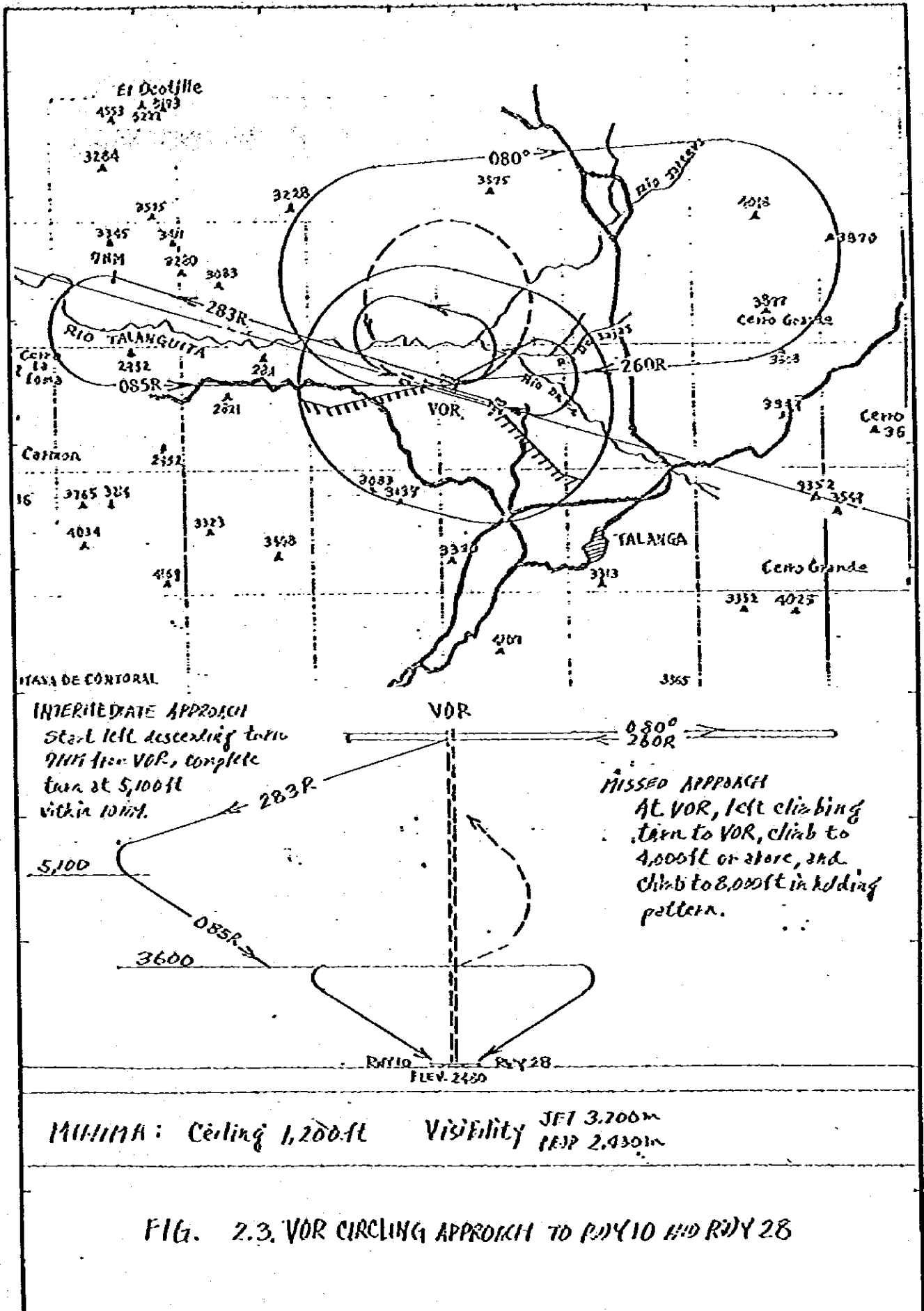
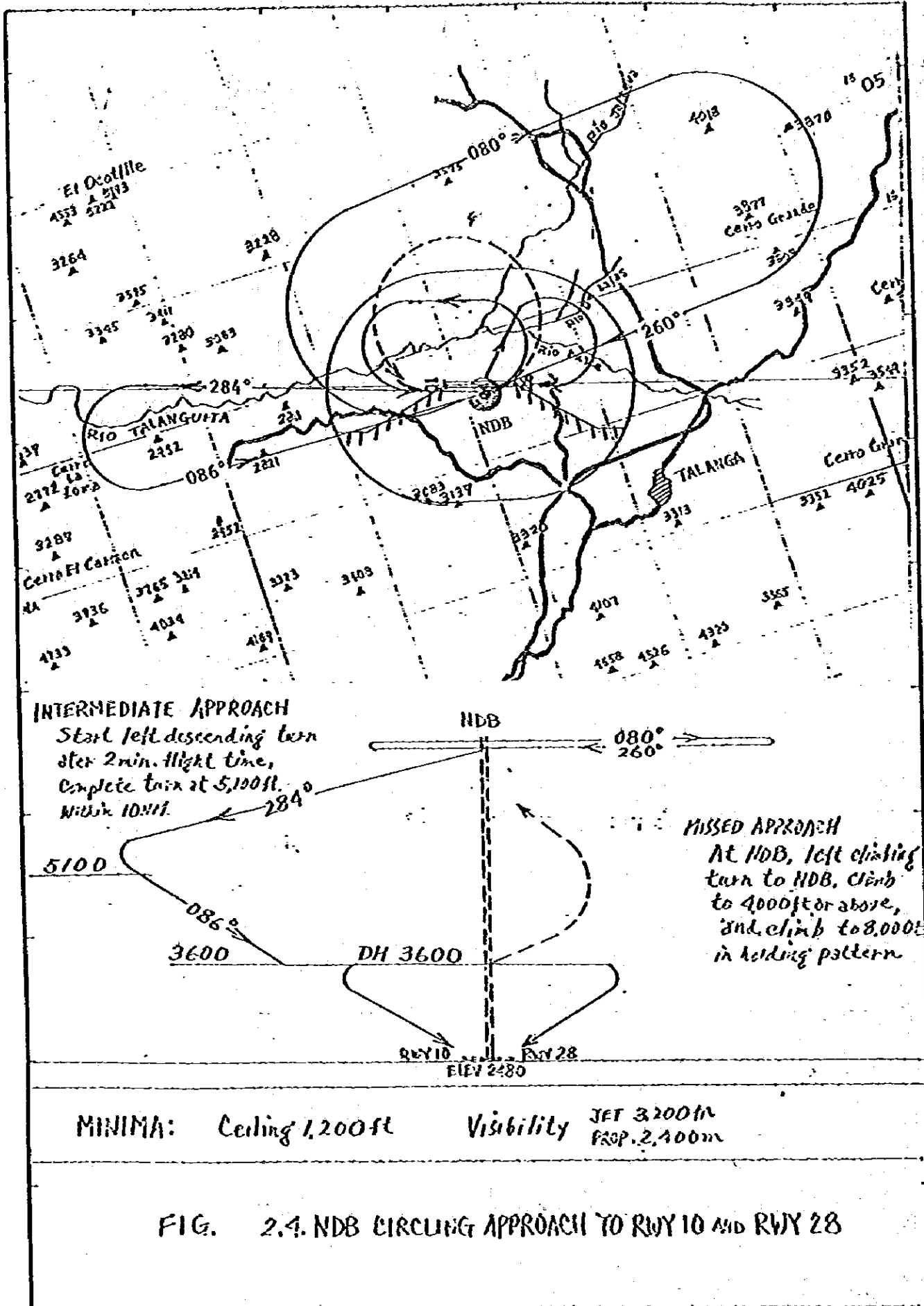


FIG. 2.3. VOR CIRCLING APPROACH TO RWY 10 AND RWY 28



INTERMEDIATE APPROACH
Start left descending turn
after 2 min. flight time,
complete turn at 5,100 ft.
With 10817.

MISSED APPROACH
At NDB, left climbing
turn to NDB. Climb
to 4000ft or above,
and climb to 8,000ft
in holding pattern

MINIMA: Ceiling 1,200ft **Visibility** JET 3,200m
PROP. 2,400m

FIG. 2.4. NDB CIRCLING APPROACH TO RWY 10 AND RWY 28

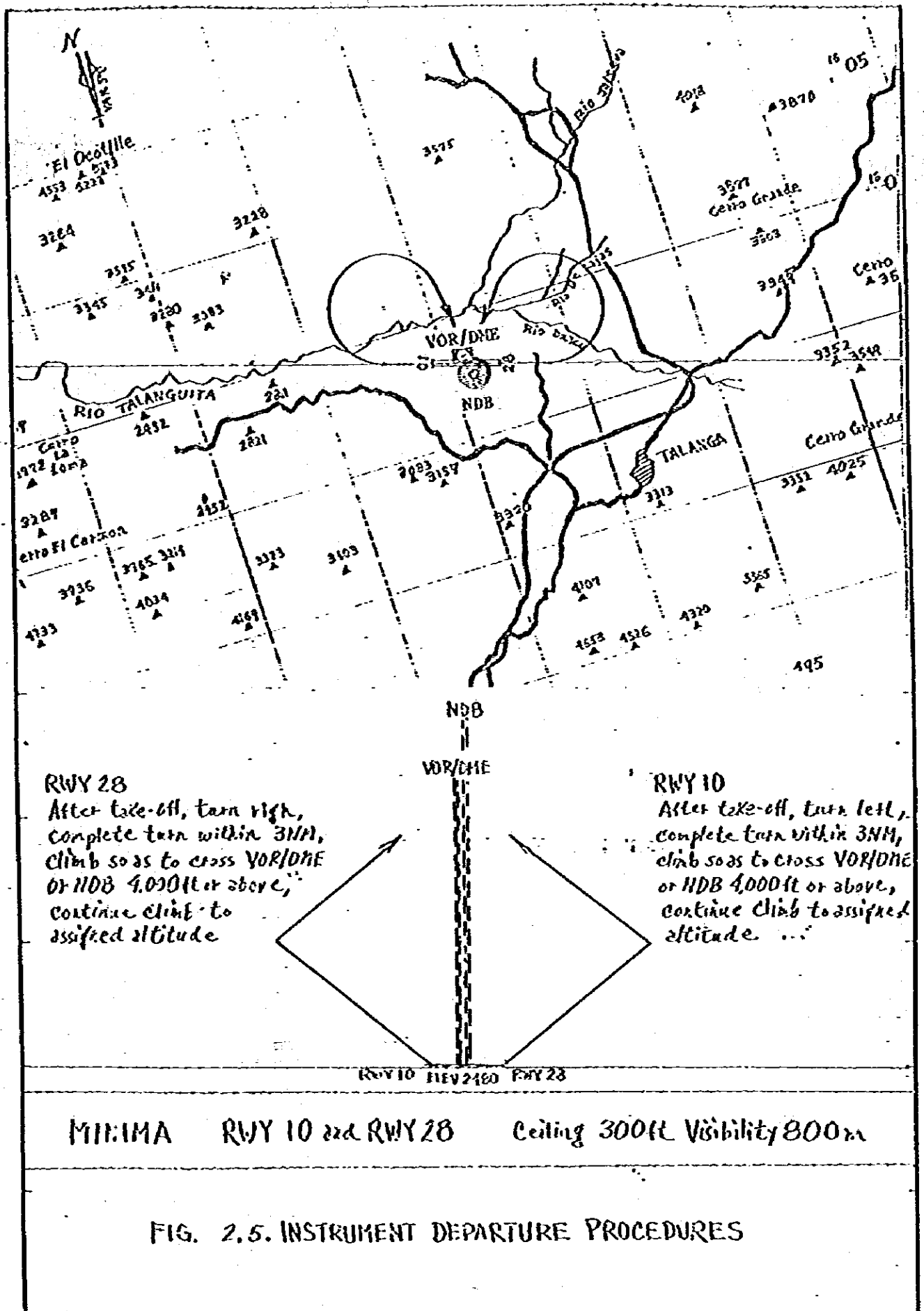
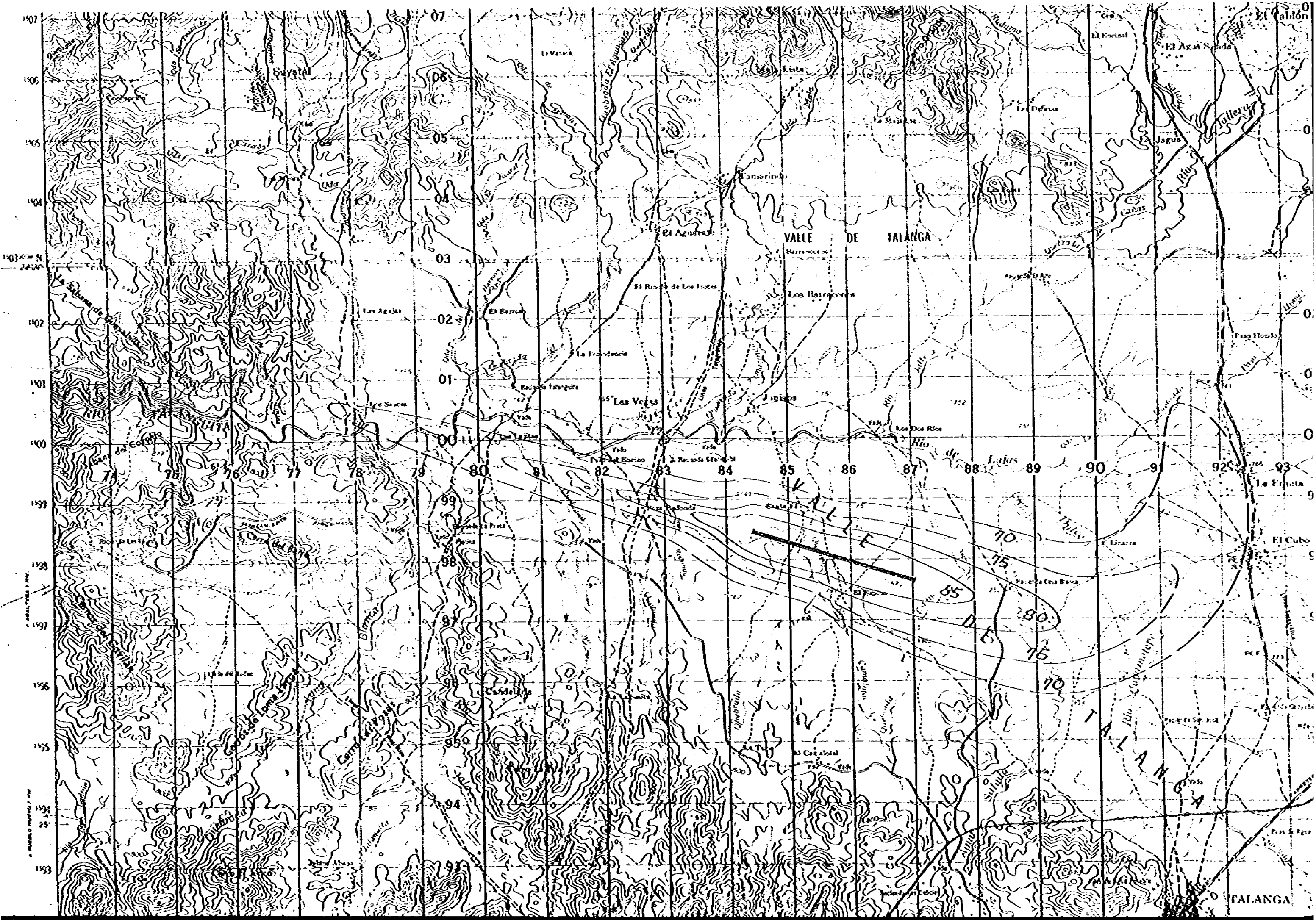
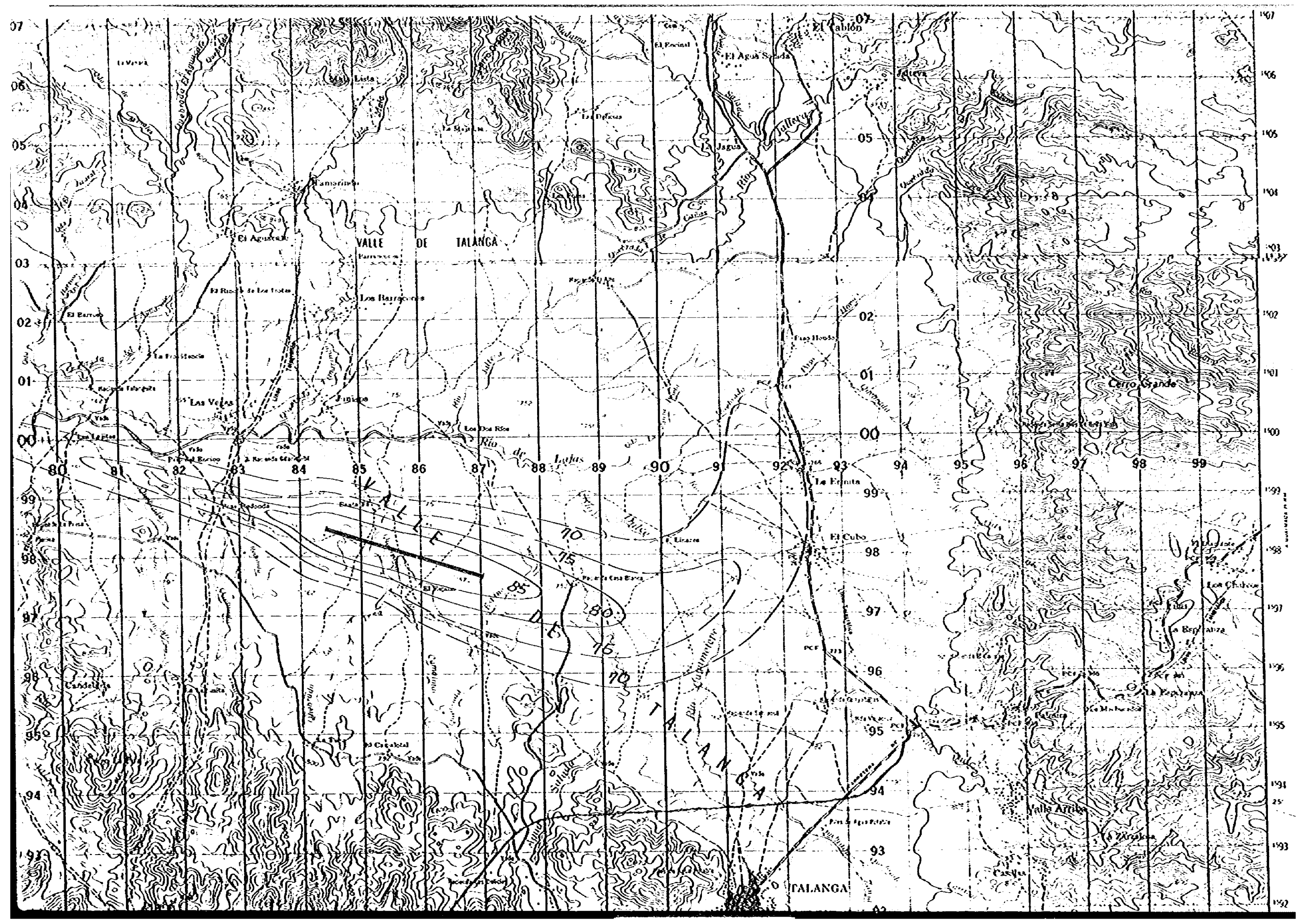
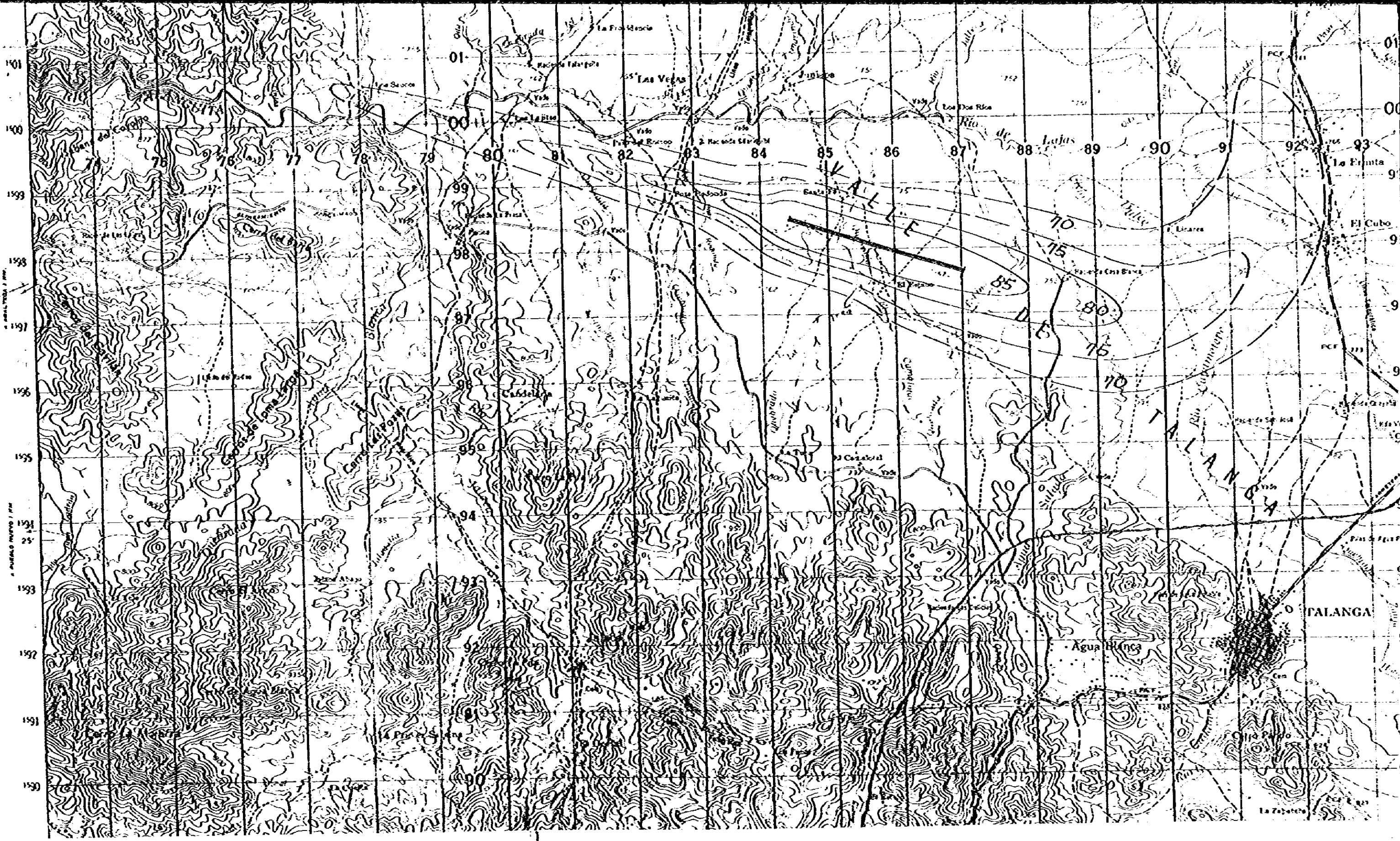
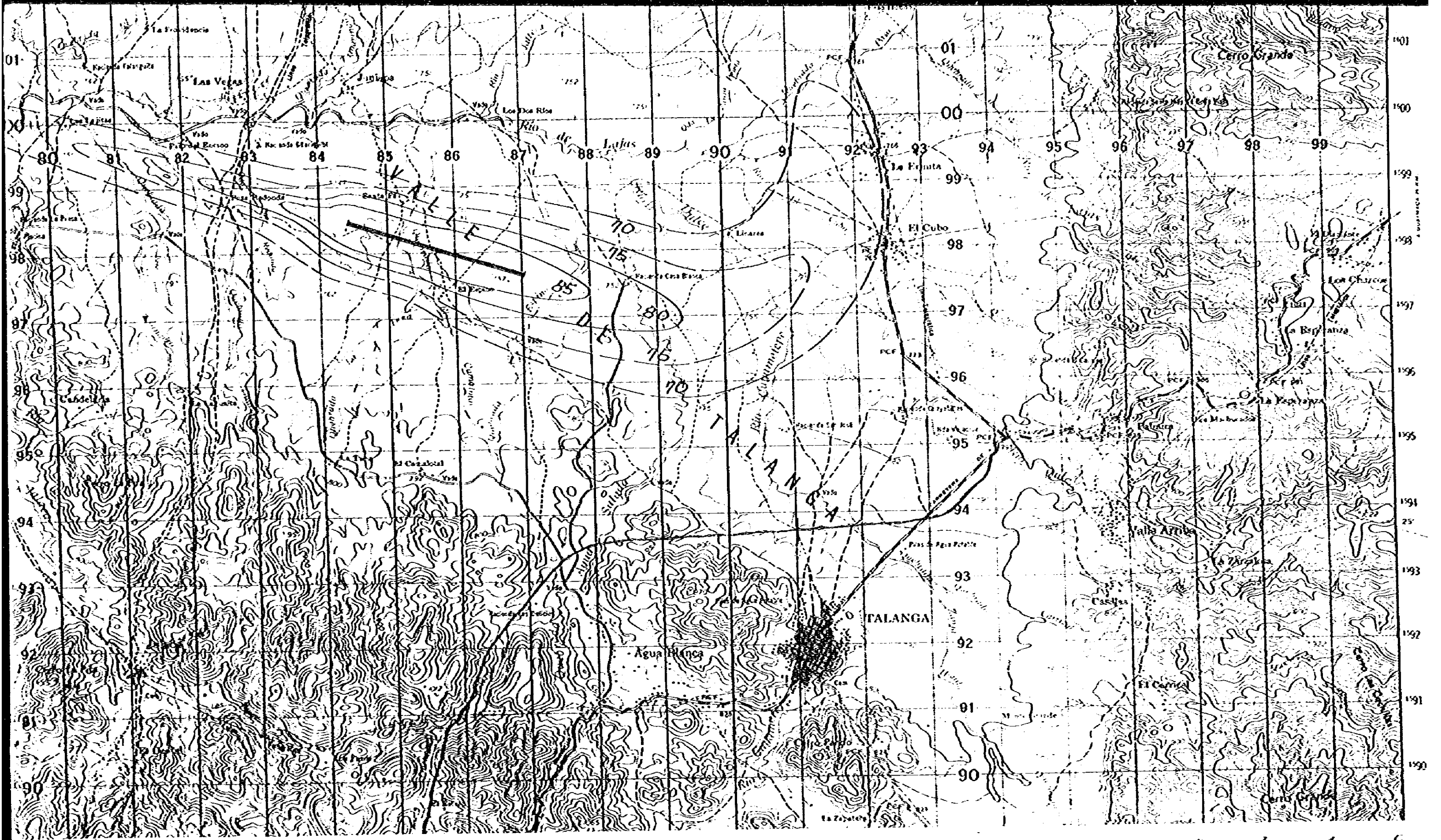


FIG. 2.5. INSTRUMENT DEPARTURE PROCEDURES



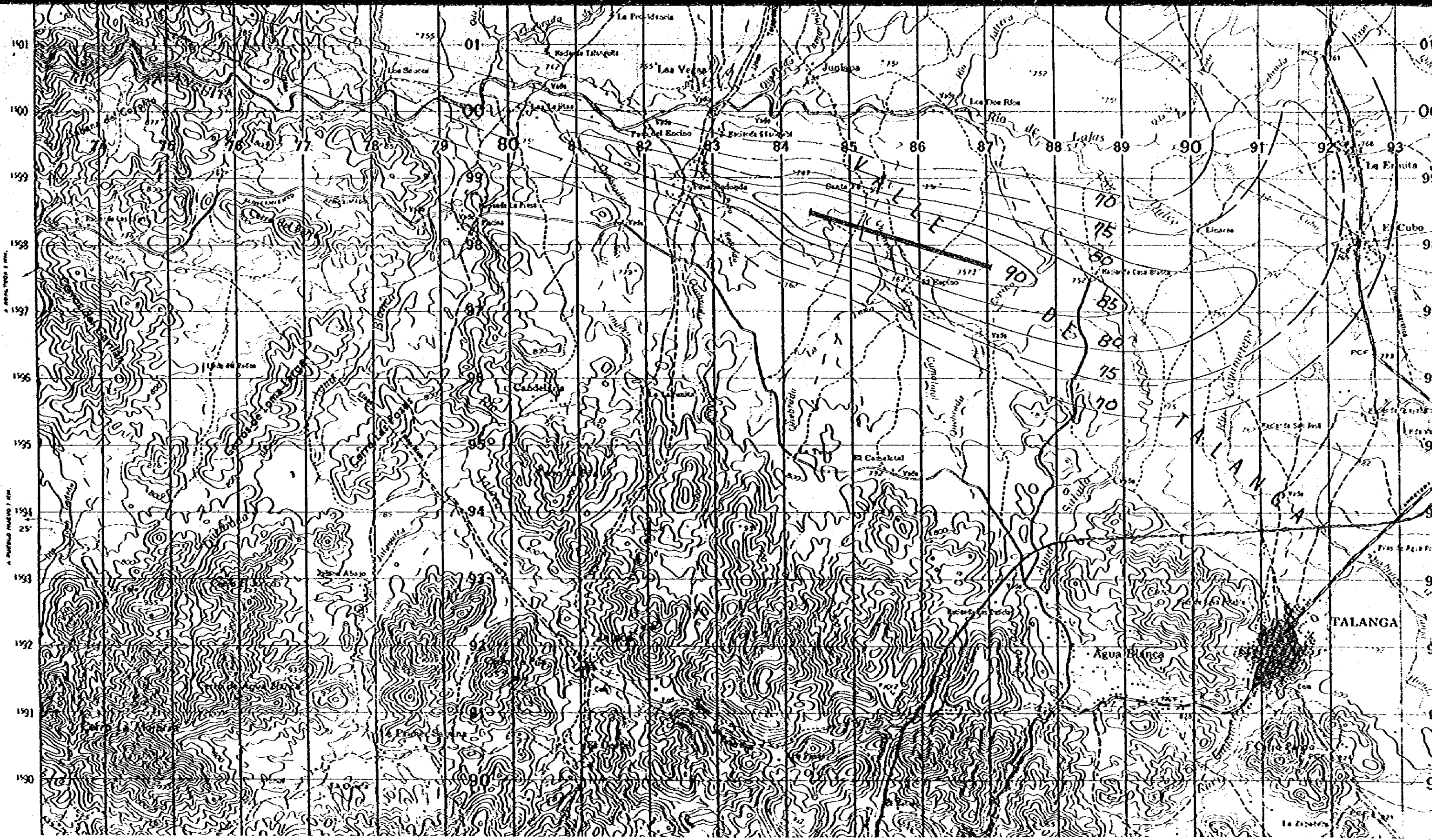


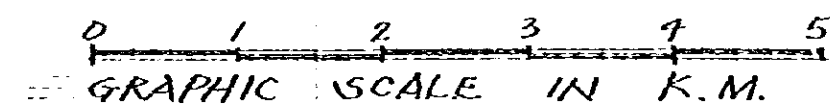
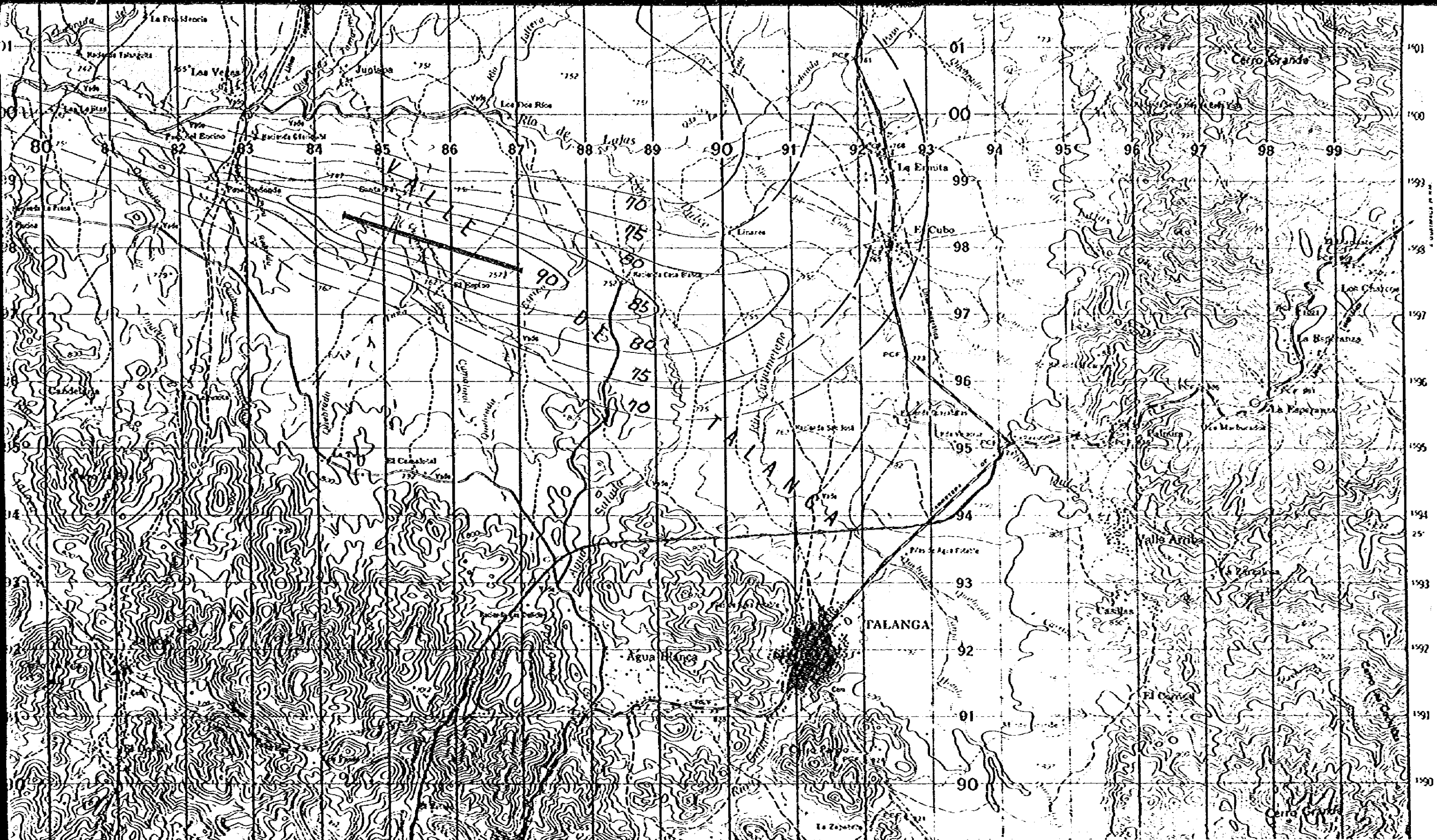




0 1 2 3 4 5
 GRAPHIC SCALE IN K.M.

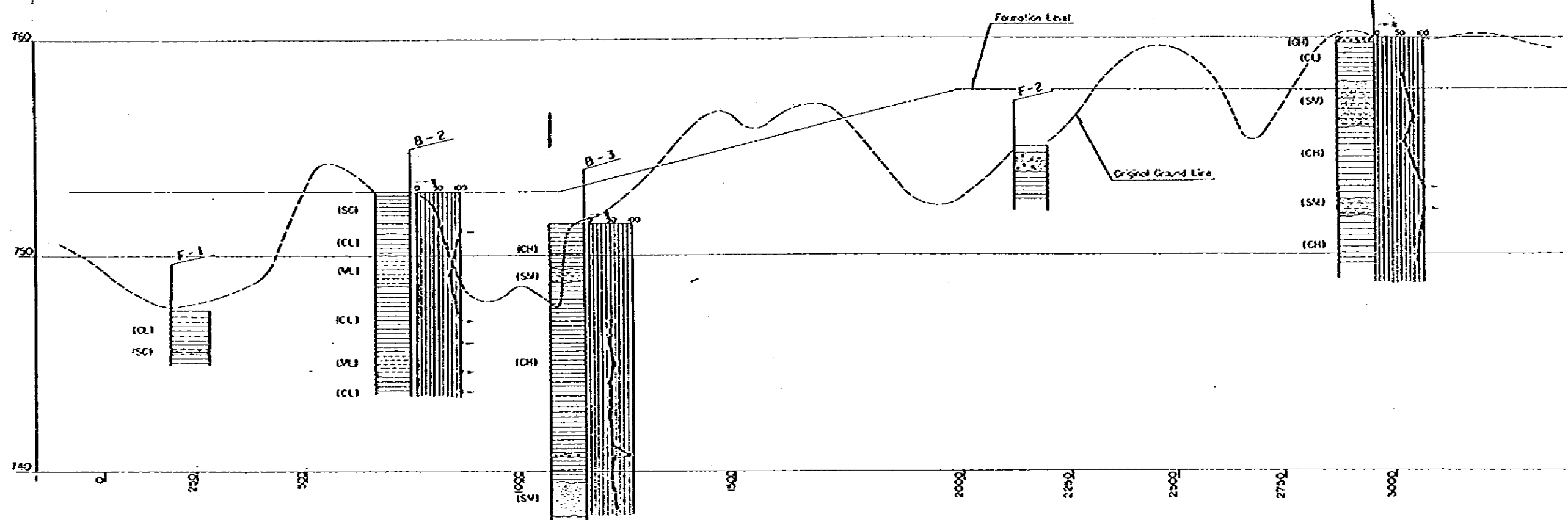
Appendix 6E-1 WECPNL NOISE CONTOURS (1995)



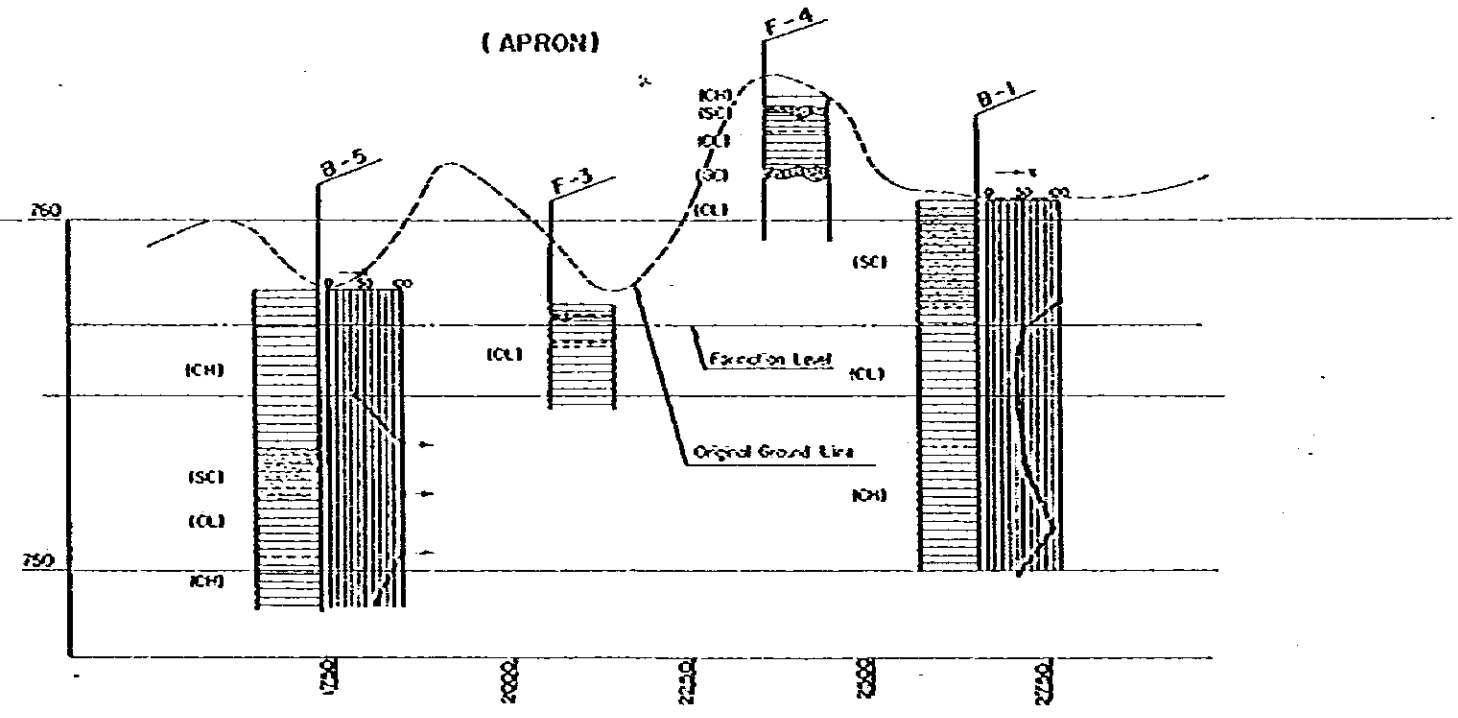


Appendix 6E-2 - WECPNL NOISE CONTOURS (2005)

(AROUND CENTER LINE OF RUNWAY)

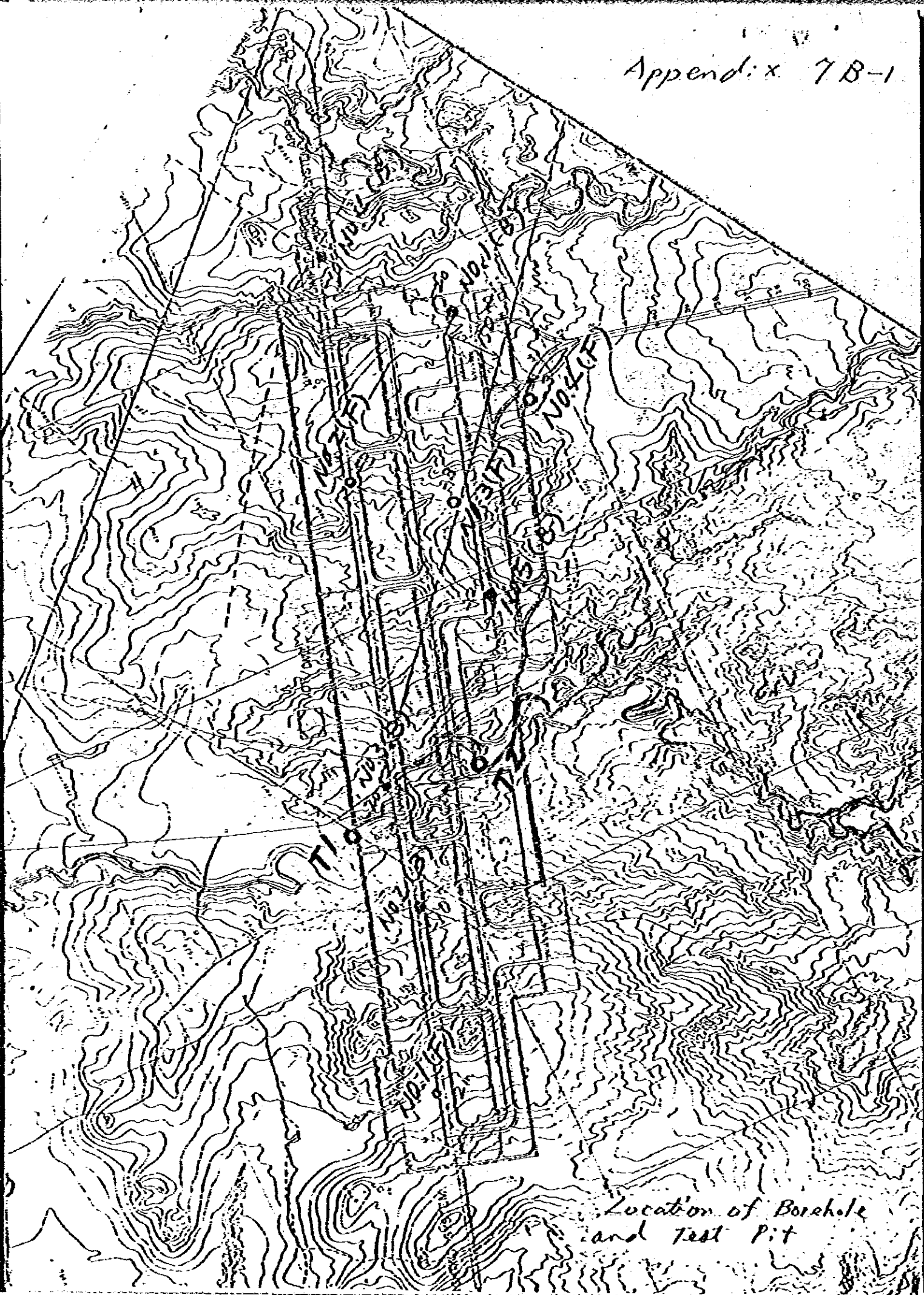


(APRON)



Geological Profile

Appendix 7B-1



Location of Borehole
and Test Pit