

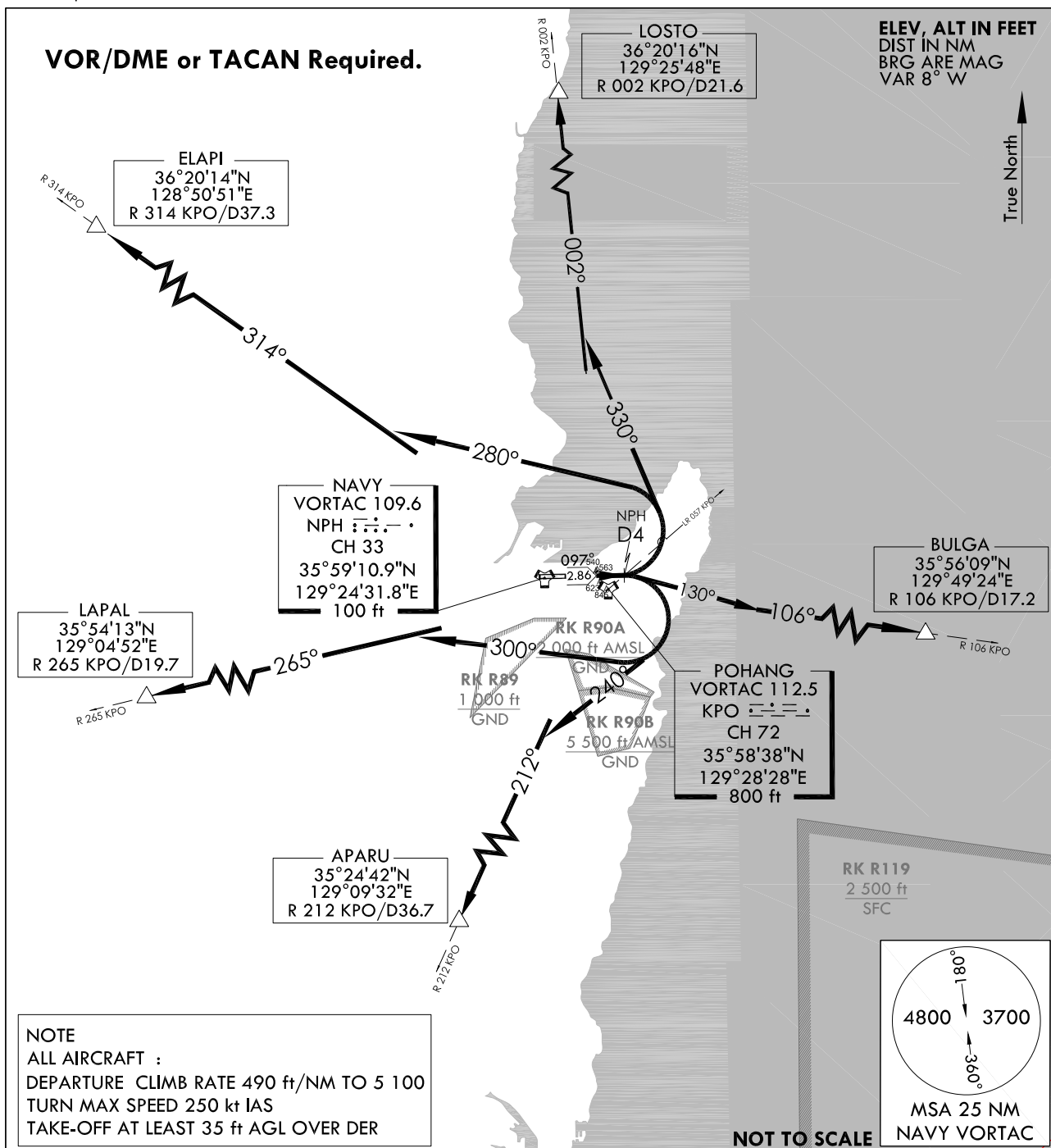
**STANDARD DEPARTURE  
CHART - INSTRUMENT(SID)**

TRANSITION ALT 14 000  
TRANSITION LVL FL 140

POHANG DEP 120.2 124.25  
232.4  
POHANG TWR 118.05 236.6  
308.5

**POHANG/Pohang(RKTH)**  
**RWY 10**  
**POHANG 3**

Note : Departure under U.S. TERPS.



**DEPARTURE ROUTE DESCRIPTION**

**POHANG 3 DEPARTURE**

RWY 10 : Climb HDG 097° to NPH 4 DME or cross LR 057 KPO, then via assigned transition routes.

The following transitions are ATC assigned only : Fly to intercept for en route.

**ELAPI Transition** : .....left turn HDG 280° to intercept R 314 KPO and R 314 KPO to ELAPI.  
**LOSTO Transition** : .....left turn HDG 330° to intercept R 002 KPO and R 002 KPO to LOSTO.  
**BULGA Transition** : .....right turn HDG 130° to intercept R 106 KPO and R 106 KPO to BULGA.  
**APARU Transition** : .....right turn HDG 240° to intercept R 212 KPO and R 212 KPO to APARU.  
**LAPAL Transition** : .....right turn HDG 300° to intercept R 265 KPO and R 265 KPO to LAPAL.

**INTENTIONALLY**

**LEFT**

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**POHANG/Pohang(RKTH)**  
**RWY 10**  
**POHANG 5**

**ELEV, ALT IN FEET**  
DIST IN NM  
BRG ARE MAG  
VAR 8° W

**VOR/DME or TACAN Required.**

**True North**

**ELAPI**  
36°20'14"N  
128°50'51"E  
R 314 KPO/D37.3

**LOSTO**  
36°20'16"N  
129°25'48"E  
R 002 KPO/D21.6

**POHANG**  
VORTAC 112.5  
KPO 112.5  
CH 72  
35°58'38"N  
129°28'28"E  
800 ft

**NAVY**  
VORTAC 109.6  
NPH 109.6  
CH 33  
35°59'10.9"N  
129°24'31.8"E  
100 ft

**LAPAL**  
35°54'13"N  
129°04'52"E  
R 265 KPO/D19.7

**BULGA**  
35°56'09"N  
129°49'24"E  
R 106 KPO/D17.2

**APARU**  
35°24'42"N  
129°09'32"E  
R 212 KPO/D36.7

**NPH D4**  
096°  
2.86

**RK R89**  
1 000 ft AMSL  
GND

**RK R90A**  
2 000 ft AMSL  
GND

**RK R90B**  
5 500 ft AMSL  
GND

**RK R119**  
2 500 ft AMSL  
GND

**NOTE**  
ALL AIRCRAFT : Minimum climb of 490 ft/NM to 5 100 ft. Take-off must occur no later than 1 100 ft prior to departure end of runway. Turn max speed 250 kt IAS. Take-off at least 35 ft AGL over DER.

**NOT TO SCALE**

**ELAPI Transition :** Left turn HDG 280° to intercept R 314 KPO and R 314 KPO to ELAPI.  
**LOSTO Transition :** Left turn HDG 330° to intercept R 003 KPO and R 003 KPO to LOSTO.  
**BULGA Transition :** Right turn HDG 130° to intercept R 107 KPO and R 107 KPO to BULGA.  
**APARU Transition :** Right turn HDG 240° to intercept R 213 KPO and R 213 KPO to APARU.  
**LAPAL Transition :** Right turn HDG 300° to intercept R 265 KPO and R 265 KPO to LAPAL.

**AIRAC AIP AMDT 14/21**  
**Effective : 1600UTC 26 JAN 2022**

**INTENTIONALLY**

**LEFT**

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STANDARD DEPARTURE  
CHART-INSTRUMENT(SID)

TRANSITION	ALT	14 000
TRANSITION	LVL	FL 140

POHANG DEP	124.25	120.2
	232.4	
POHANG TWR	118.05	236.6
	308.50	

POHANG/Pohang(RKTH)  
RNAV(GNSS) DORTI 1  
RWY 10

Note : Departure under U.S TERPS.

**Take-off minimums :**  
RWY 10 : Standard with minimum climb of 490 ft/NM to 4 800 ft.

**Take-off obstacles :**  
RWY 10 - Mountain 1.44 NM from DER, 1 024 ft left of centerline, 540 ft MSL.  
RWY 10 - Mountain 1.63 NM from DER, 2 157 ft right of centerline, 623 ft MSL.  
RWY 10 - Mountain 1.92 NM from DER, 2 677 ft right of centerline, 697 ft MSL.  
RWY 10 - Mountain 2.05 NM from DER, 1 365 ft right of centerline, 722 ft MSL.  
RWY 10 - Mountain 1.95 NM from DER, 1 338 ft left of centerline, 447 ft MSL.

**Departure obstacles :**  
RWY 28 - Mountain 2.75 NM from DER, 768 ft MSL.

**NOTE**

1. GNSS & RADAR Required.
2. RNAV 1.0 required.
3. DME/DME/IRU N/A. (DME/DME Assessment : NOT CONDUCTED)
4. Do not exceed 230 kt IAS until TH801, TH805, if unable, advise ATC on initial contact.
5. Top altitude : 9 000 ft

**DEPARTURE ROUTE DESCRIPTION**

**TAKE-OFF RUNWAY 10 :** Climb on course 097° to DORTI, thence.....

..... via (TRANSITIONS routes) or expect climb assigned altitude by ATC.

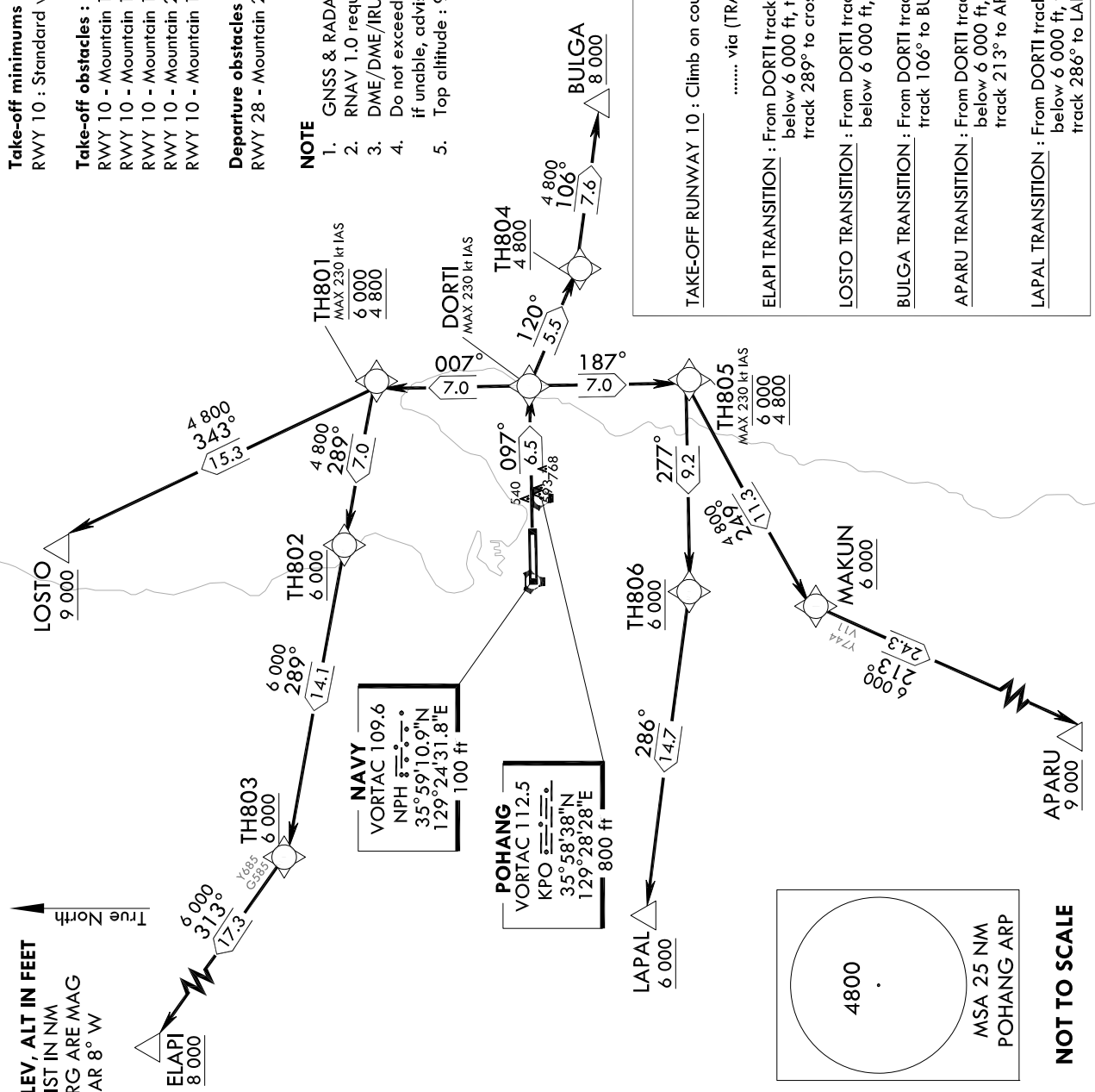
**ELAPI TRANSITION :** From DORTI track 007° to cross TH801 at or above 4 800 ft and at or below 6 000 ft, then track 289° to cross TH802 at or above 6 000 ft, then track 289° to cross TH803 at or above 6 000 ft, then track 313° to ELAPI.

**LOSTO TRANSITION :** From DORTI track 007° to cross TH801 at or above 4 800 ft and at or below 6 000 ft, then track 343° to LOSTO.

**BULGA TRANSITION :** From DORTI track 120° to cross TH804 at or above 4 800 ft, then track 106° to BULGA.

**APARU TRANSITION :** From DORTI track 187° to cross TH805 at or above 4 800 ft and at or below 6 000 ft, then track 249° to cross MAKUN at or above 6 000 ft, then track 213° to APARU.

**LAPAL TRANSITION :** From DORTI track 187° to cross TH805 at or above 4 800 ft and at or below 6 000 ft, then track 277° to cross TH806 at or above 6 000 ft, then track 286° to LAPAL.



Change : Page control.

POHANG/pohang(RKTH)  
RNAV(GNSS) DORTI 1  
RWY 10

## AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

## RNAV DORTI 1 - ELAPI Transition

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
001	CF	DORTI	-	097(089.3)	6.5	-	-	-230	35°59'21.9"N 129°33'56.6"E	-	RNAV 1	Bank Angle 23° CG 490 ft/NM to 4 800 ft
002	TF	TH801	-	007(359.3)	7.0	-	-6 000 +4 800	-230	36°06'22.7"N 129°33'50.5"E	-	RNAV 1	Bank Angle 23° CG 490 ft/NM to 4 800 ft
003	TF	TH802	-	289(280.8)	7.0	-	+6 000	-	36°07'41.0"N 129°25'21.0"E	-	RNAV 1	-
004	TF	TH803	-	289(280.7)	14.1	-	+6 000	-	36°10'16.4"N 129°08'17.0"E	-	RNAV 1	-
005	TF	ELAPI	-	313(305.3)	17.3	-	+8 000	-	36°20'14.1"N 128°50'50.9"E	-	RNAV 1	-

## RNAV DORTI 1 - LOSTO Transition

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
001	CF	DORTI	-	097(089.3)	6.5	-	-	-230	35°59'21.9"N 129°33'56.6"E	-	RNAV 1	Bank Angle 23° CG 490 ft/NM to 4 800 ft
002	TF	TH801	-	007(359.3)	7.0	-	-6 000 +4 800	-230	36°06'22.7"N 129°33'50.5"E	-	RNAV 1	Bank Angle 23° CG 490 ft/NM to 4 800 ft
003	TF	LOSTO	-	343(334.9)	15.3	-	+9 000	-	36°20'15.8"N 129°25'48.3"E	-	RNAV 1	-

## RNAV DORTI 1 - BULGA Transition

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
001	CF	DORTI	-	097(089.3)	6.5	-	-	-230	35°59'21.9"N 129°33'56.6"E	-	RNAV 1	Bank Angle 23° CG 490 ft/NM to 4 800 ft
002	TF	TH804	-	120(112.4)	5.5	-	+4 800	-	35°57'15.5"N 129°40'12.9"E	-	RNAV 1	CG 490 ft/NM to 4 800 ft
003	TF	BULGA	-	106(098.4)	7.6	-	+8 000	-	35°56'08.6"N 129°49'24.4"E	-	RNAV 1	-

## RNAV DORTI 1 - APARU Transition

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
001	CF	DORTI	-	097(089.3)	6.5	-	-	-230	35°59'21.9"N 129°33'56.6"E	-	RNAV 1	Bank Angle 23° CG 490 ft/NM to 4 800 ft
002	TF	TH805	-	187(179.3)	7.0	-	-6 000 +4 800	-230	35°52'21.2"N 129°34'02.7"E	-	RNAV 1	Bank Angle 23° CG 490 ft/NM to 4 800 ft
003	TF	MAKUN	-	249(241.2)	11.3	-	+6 000	-	35°46'53.0"N 129°21'52.8"E	-	RNAV 1	-
004	TF	APARU	-	213(204.5)	24.3	-	+9 000	-	35°24'42.1"N 129°09'32.1"E	-	RNAV 1	-

## RNAV DORTI 1 - LAPAL Transition

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH	Navigation specification	Remarks
001	CF	DORTI	-	097(089.3)	6.5	-	-	-230	35°59'21.9"N 129°33'56.6"E	-	RNAV 1	Bank Angle 23° CG 490 ft/NM to 4 800 ft
002	TF	TH805	-	187(179.3)	7.0	-	-6 000 +4 800	-230	35°52'21.2"N 129°34'02.7"E	-	RNAV 1	Bank Angle 23° CG 490 ft/NM to 4 800 ft
003	TF	TH806	-	277(269.2)	9.2	-	+6 000	-	35°52'13.2"N 129°22'47.6"E	-	RNAV 1	-
004	TF	LAPAL	-	286(277.9)	14.7	-	+6 000	-	35°54'12.6"N 129°04'52.0"E	-	RNAV 1	-

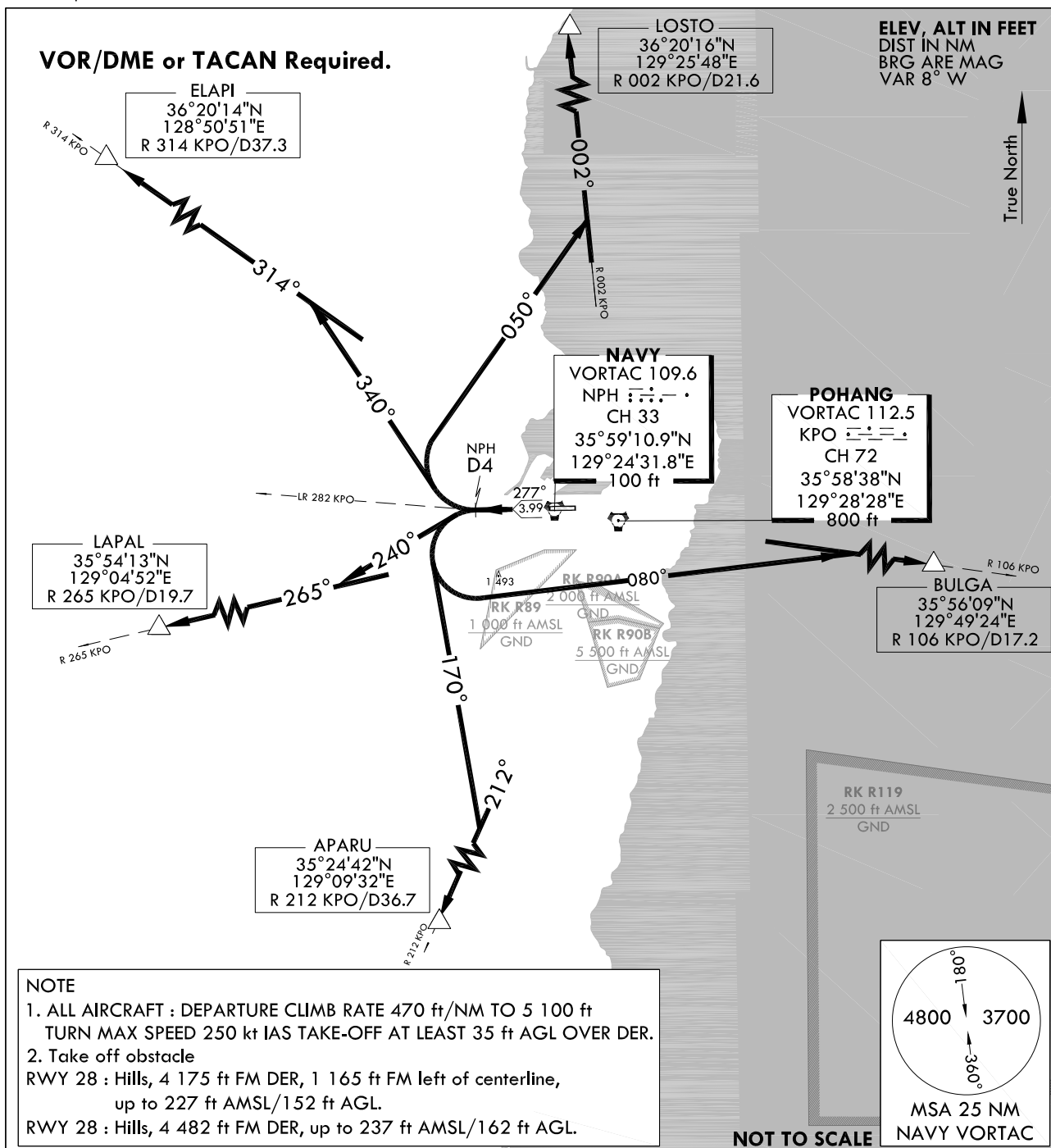
**STANDARD DEPARTURE  
CHART - INSTRUMENT(SID)**

TRANSITION ALT 14 000  
TRANSITION LVL FL 140

POHANG DEP 120.2 124.25  
232.4  
POHANG TWR 118.05 236.6  
308.5

**POHANG/Pohang(RKTH)**  
**RWY 28**  
**POHANG 4**

Note : Departure under U.S. TERPS.



**NOTE**

1. ALL AIRCRAFT : DEPARTURE CLIMB RATE 470 ft/NM TO 5 100 ft  
TURN MAX SPEED 250 kt IAS TAKE-OFF AT LEAST 35 ft AGL OVER DER.
2. Take off obstacle  
RWY 28 : Hills, 4 175 ft FM DER, 1 165 ft FM left of centerline,  
up to 227 ft AMSL/152 ft AGL.  
RWY 28 : Hills, 4 482 ft FM DER, up to 237 ft AMSL/162 ft AGL.

**DEPARTURE ROUTE DESCRIPTION**

**POHANG 4 DEPARTURE**

RWY 28 : Climb HDG 277° to NPH 4 DME or cross LR 282 KPO, then via assigned transition routes.

The following transitions are ATC assigned only : Fly to intercept for en route.

**ELAPI Transition** : .....right turn HDG 340° to intercept R 314 KPO and R 314 KPO to ELAPI.  
**LOSTO Transition** : .....right turn HDG 050° to intercept R 002 KPO and R 002 KPO to LOSTO.  
**BULGA Transition** : .....left turn HDG 080° to intercept R 106 KPO and R 106 KPO to BULGA.  
**APARU Transition** : .....left turn HDG 170° to intercept R 212 KPO and R 212 KPO to APARU.  
**LAPAL Transition** : .....left turn HDG 240° to intercept R 265 KPO and R 265 KPO to LAPAL.

Change : Page control.

**INTENTIONALLY**

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STANDARD DEPARTURE  
CHART-INSTRUMENT(SID)

TRANSITION	ALT	14 000
TRANSITION	LVL	FL 140

POHANG DEP	124.25	120.2
	232.4	
POHANG TWR	118.05	236.6
	308.50	

POHANG/Pohang(RKTH)  
RNAV(GNSS) MARM 1  
RWY 28

Note : Departure under U.S TERPS.

Take-off minimums :

RWY 28 : Standard with minimum climb of 490 ft/NM to 4 300 ft.

Take-off obstacles :

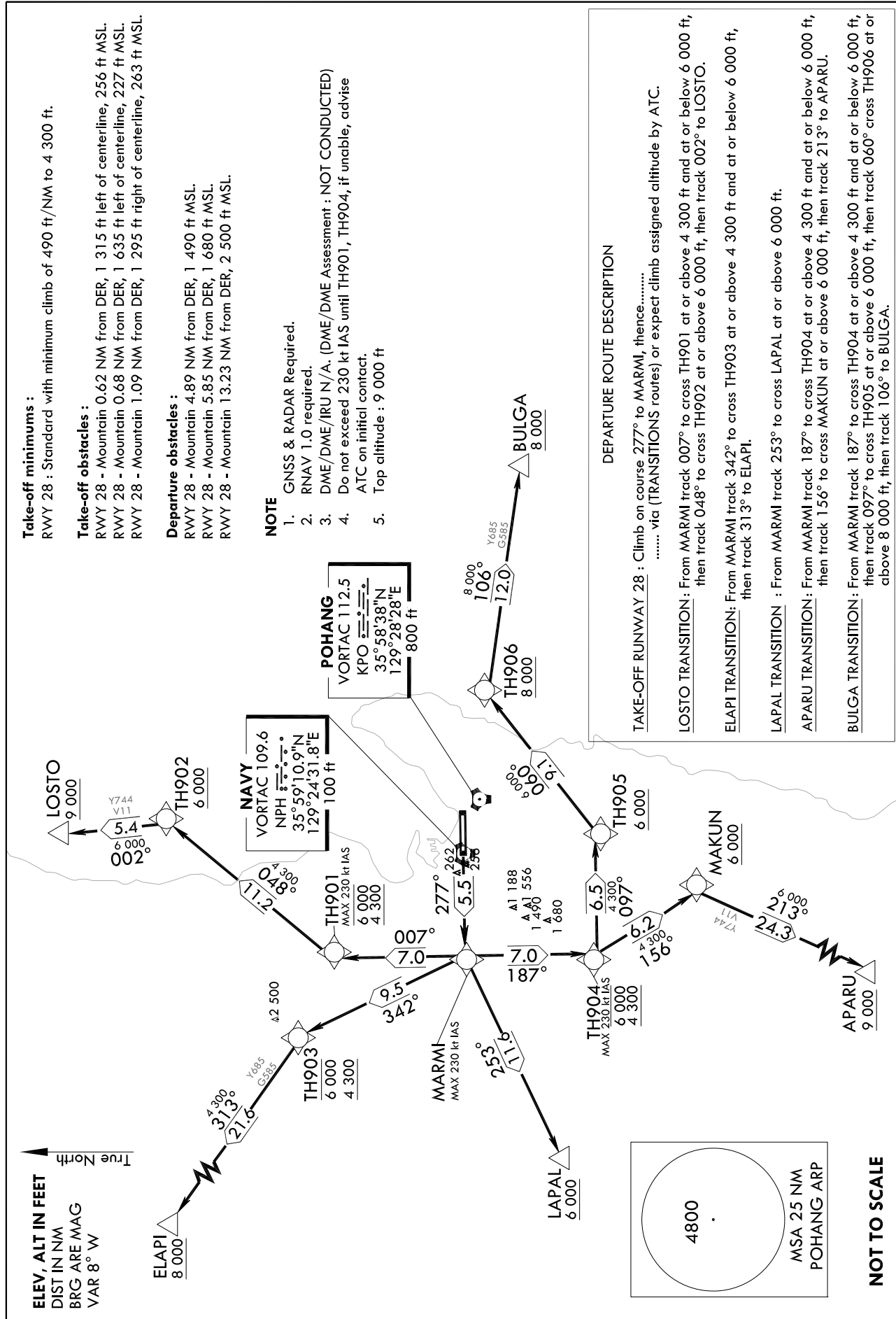
RWY 28 - Mountain 0.62 NM from DER, 1 315 ft left of centerline, 256 ft MSL.  
RWY 28 - Mountain 0.68 NM from DER, 1 635 ft left of centerline, 227 ft MSL.  
RWY 28 - Mountain 1.09 NM from DER, 1 295 ft right of centerline, 263 ft MSL.

Departure obstacles :

RWY 28 - Mountain 4.89 NM from DER, 1 490 ft MSL.  
RWY 28 - Mountain 5.85 NM from DER, 1 680 ft MSL.  
RWY 28 - Mountain 13.23 NM from DER, 2 500 ft MSL.

NOTE

1. GNSS & RADAR Required.
2. RNAV 1.0 required.
3. DME/DME/IRU N/A. (DME/DME Assessment : NOT CONDUCTED)
4. Do not exceed 230 kt IAS until TH901, TH904, if unable, advise ATC on initial contact.
5. Top altitude : 9 000 ft



Change : Page control.

POHANG/pohang(RKTH)  
RNAV(GNSS) MARM 1  
RWY 28

## AERONAUTICAL DATA TABULATION

Standard Instrument Departure Procedure Coding Tables

RNAV MARM 1 - LOSTO Transition										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH
001	CF	MARM	-	277(269.2)	5.5	-	-	-230	35°59'11.5"N 129°17'44.0"E	RNAV 1
002	TF	TH901	-	007(359.2)	7.0	-	-6 000 +4 300	-230	36°06'12.2"N 129°17'36.5"E	RNAV 1
003	TF	TH902	-	048(039.7)	11.2	-	+6 000	-	36°14'50.3"N 129°26'28.6"E	RNAV 1
004	TF	LOSTO	-	002(354.3)	5.4	-	+9 000	-	36°20'15.8"N 129°25'48.3"E	RNAV 1
Remarks										
										Bank Angle 23° CG 490 ft/NM to 4 300 ft
										Bank Angle 23° CG 490 ft/NM to 4 300 ft
										-
										-
RNAV MARM 1 - ELAPI Transition										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH
001	CF	MARM	-	277(269.2)	5.5	-	-	-230	35°59'11.5"N 129°17'44.0"E	RNAV 1
002	TF	TH903	-	342(334.3)	9.5	-	-6 000 +4 300	-	36°07'45.8"N 129°12'39.2"E	RNAV 1
003	TF	ELAPI	-	313(305.3)	21.6	-	+8 000	-	36°20'14.1"N 128°50'50.9"E	RNAV 1
Remarks										
										Bank Angle 23° CG 490 ft/NM to 4 300 ft
										Bank Angle 23° CG 490 ft/NM to 4 300 ft
										-
										-
RNAV MARM 1 - LAPAL Transition										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH
001	CF	MARM	-	277(269.2)	5.5	-	-	-230	35°59'11.5"N 129°17'44.0"E	RNAV 1
002	TF	LAPAL	-	253(244.6)	11.6	-	+6 000	-	35°54'12.6"N 129°04'52.0"E	RNAV 1
Remarks										
										Bank Angle 23° CG 490 ft/NM to 4 300 ft
										Bank Angle 23° CG 490 ft/NM to 4 300 ft
										-
										-
RNAV MARM 1 - APARU Transition										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH
001	CF	MARM	-	277(269.2)	5.5	-	-	-230	35°59'11.5"N 129°17'44.0"E	RNAV 1
002	TF	TH904	-	187(179.2)	7.0	-	-6 000 +4 300	-230	35°52'10.8"N 129°17'51.6"E	RNAV 1
003	TF	MAKUN	-	156(148.3)	6.2	-	+6 000	-	35°46'53.0"N 129°21'52.8"E	RNAV 1
004	TF	APARU	-	213(204.5)	24.3	-	+9 000	-	35°24'42.1"N 129°09'32.1"E	RNAV 1
Remarks										
										Bank Angle 23° CG 490 ft/NM to 4 300 ft
										Bank Angle 23° CG 490 ft/NM to 4 300 ft
										-
										-
RNAV MARM 1 - BULGA Transition										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ TCH
001	CF	MARM	-	277(269.2)	5.5	-	-	-230	35°59'11.5"N 129°17'44.0"E	RNAV 1
002	TF	TH904	-	187(179.2)	7.0	-	-6 000 +4 300	-230	35°52'10.8"N 129°17'51.6"E	RNAV 1
003	TF	TH905	-	097(089.2)	6.5	-	+6 000	-	35°52'16.2"N 129°25'51.6"E	RNAV 1
004	TF	TH906	-	060(052.0)	9.1	-	+8 000	-	35°57'53.7"N 129°34'43.8"E	RNAV 1
005	TF	BULGA	-	106(098.3)	12.0	-	+8 000	-	35°56'08.6"N 129°49'24.4"E	RNAV 1
Remarks										
										Bank Angle 23° CG 490 ft/NM to 4 300 ft
										Bank Angle 23° CG 490 ft/NM to 4 300 ft
										-
										-
										-

Change : Page control.