**STANDARD ARRIVAL CHART
RNAV (GNSS) -
INSTRUMENT (STAR)**

ACC 133.25
APP 124.6
119.3
TWR 118.6 / 118.25

TRANSITION ALTITUDE
11 000ft

D-ATIS AP ID-WSSS
ARR 128.025

**SINGAPORE/Singapore Changi
RWY 20R/C/L
ASUNA TWO BRAVO ARRIVAL
ASUNA 2B**

ELEV, ALT IN FEET
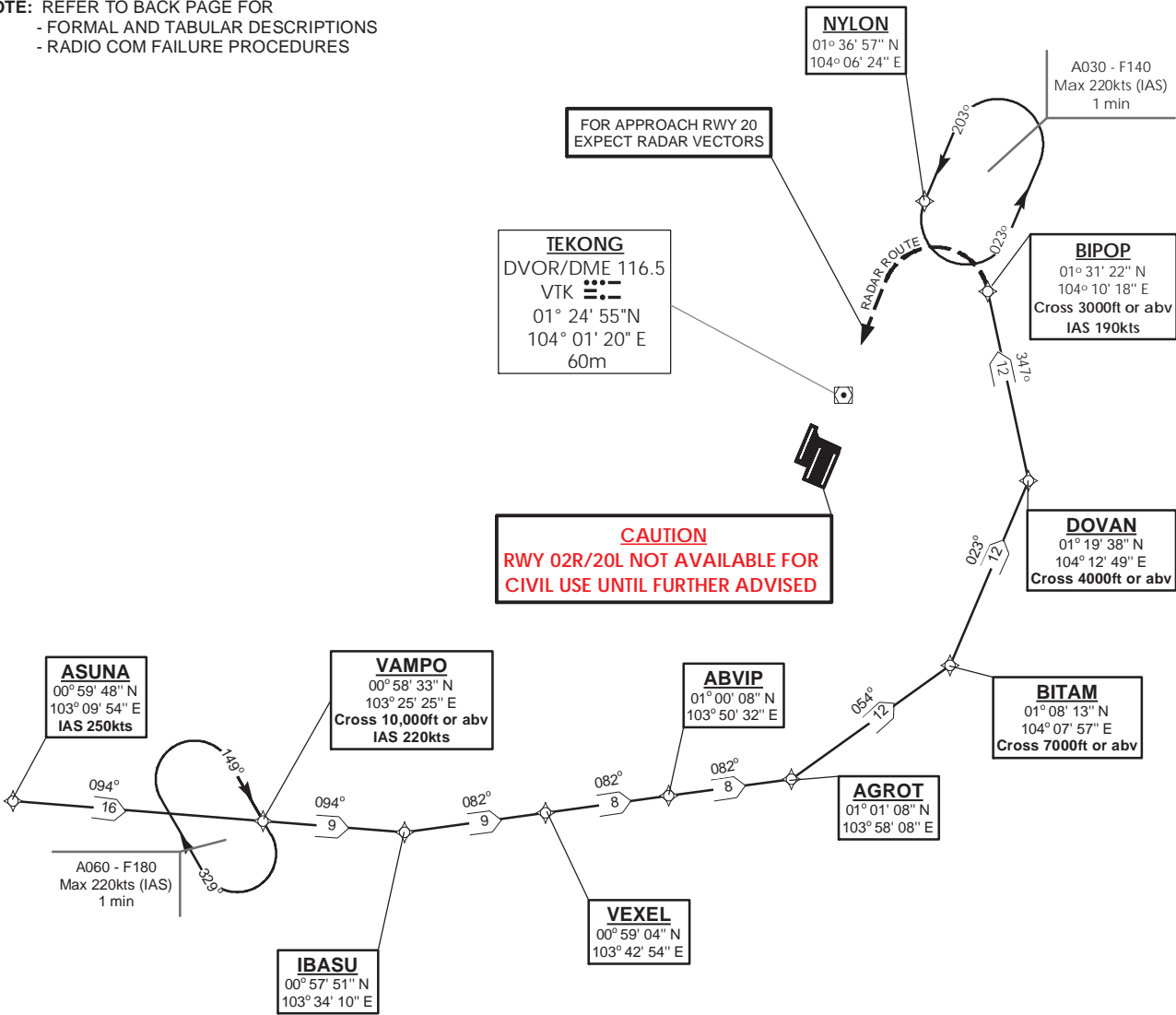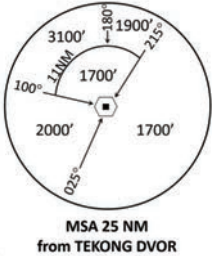BEARINGS, TRACKS AND
RADIALS ARE MAGNETIC
VAR 0°23'E (2020)

DISTANCES IN NM

**CAUTION: RWY 02R/20L NOT AVAILABLE FOR CIVIL USE UNTIL
FURTHER ADVISED**

NOTE: RADAR REQUIRED

NOTE: RNAV-1 NAVIGATION SPECIFICATION GNSS REQUIRED

NOTE: REFER TO BACK PAGE FOR
- FORMAL AND TABULAR DESCRIPTIONS
- RADIO COM FAILURE PROCEDURES

MSA 25 NM
from TEKONG DVOR

3100' 180 1900'
215
100° 1700'
2000' 1700'
025

NYLON
01° 36' 57'' N
104° 06' 24'' E

A030 - F140
Max 220kts (IAS)
1 min

FOR APPROACH RWY 20
EXPECT RADAR VECTORS

203°

023°

TEKONG
DVOR/DME 116.5
VTK
01° 24' 55"N
104° 01' 20" E
60m

RADAR ROUTE

BIPOP
01° 31' 22'' N
104° 10' 18'' E
**Cross 3000ft or abv
IAS 190kts**

347°
12

DOVAN
01° 19' 38'' N
104° 12' 49'' E
Cross 4000ft or abv

**CAUTION
RWY 02R/20L NOT AVAILABLE FOR
CIVIL USE UNTIL FURTHER ADVISED**

023°
12

BITAM
01° 08' 13'' N
104° 07' 57'' E
Cross 7000ft or abv

ASUNA
00° 59' 48'' N
103° 09' 54'' E
IAS 250kts

VAMPO
00° 58' 33'' N
103° 25' 25'' E
**Cross 10,000ft or abv
IAS 220kts**

ABVIP
01° 00' 08'' N
103° 50' 32'' E

094°
16

149°

A060 - F180
Max 220kts (IAS)
1 min

329°

094°
9

082°
9

082°
8

082°
8

054°
12

AGROT
01° 01' 08'' N
103° 58' 08'' E

IBASU
00° 57' 51'' N
103° 34' 10'' E

VEXEL
00° 59' 04'' N
103° 42' 54'' E

NOT TO SCALE

CHANGES : 1. Updated caution text
2. Removal of Runway 3 closure crosses "X"

AIP AMDT 06/2024

ASUNA 2B (STAR) RNAV GNSS RWY 20R/20C/20L - DESCRIPTIONS

Formal & Abbreviated Descriptions

Formal Description	Abbreviated Description	Path Terminator	Fly-Over required
From ASUNA, speed 250kts.	ASUNA [K250] -	IF	N
To VAMPO at or above 10000ft, speed 220kts.	VAMPO [A100+; K220] -	TF	N
To IBASU, turn left.	IBASU [L] -	TF	N
To VEXEL.	VEXEL -	TF	N
To ABVIP.	ABVIP -	TF	N
To AGROT, turn left.	AGROT [L] -	TF	N
To BITAM at or above 7000ft, turn left.	BITAM [A070+; L] -	TF	N
To DOVAN at or above 4000ft, turn left.	DOVAN [A040+; L] -	TF	N
To BIPOP at or above 3000ft, speed 190kts.	BIPOP [A030+; K190]	TF	N

Tabular Descriptions

Path Term	Waypoint Name	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude	Speed Limit	Navigation Spec
IF	ASUNA	-	-	-	-	-	K250	RNAV1
TF	VAMPO	-	094(094.4)	16.0	-	A100+	K220	RNAV1
TF	IBASU	-	094(094.4)	9.0	L	-	-	RNAV1
TF	VEXEL	-	082(082.4)	9.0	-	-	-	RNAV1
TF	ABVIP	-	082(082.4)	8.0	-	-	-	RNAV1
TF	AGROT	-	082(082.4)	8.0	L	-	-	RNAV1
TF	BITAM	-	054(054.4)	12.0	L	A070+	-	RNAV1
TF	DOVAN	-	023(023.4)	12.0	L	A040+	-	RNAV1
TF	BIPOP	-	347(347.4)	12.0	-	A030+	K190	RNAV1

Radio Communications Failure Procedure

1	SET TRANSPONDER TO MODE A/C CODE 7600
2	**When cleared via ASUNA 2B by Singapore ATC**
(a)	Maintain last assigned flight level or altitude and proceed on ASUNA 2B to BIPOP, then direct to NYLON
(b)	From NYLON commence descent and carry out appropriate landing procedure for RWY 20 as close as possible to EAT or ETA
(c)	If unable to effect a landing, refer to Singapore AIP for missed approach procedure
3	**No clearance or instruction received from Singapore ATC**
-	Refer to Singapore AIP for radio communications failure procedure