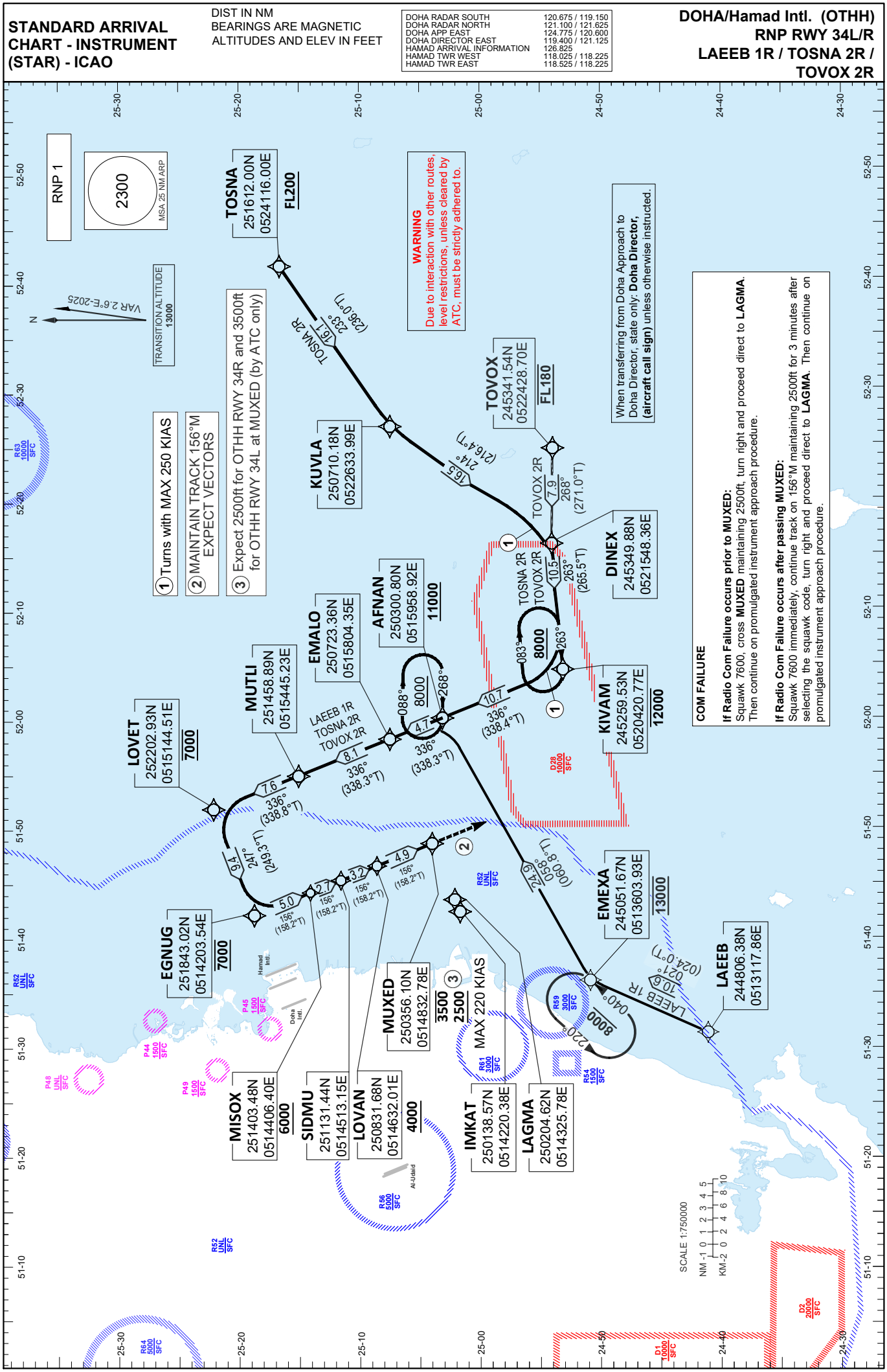
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET

DOHA RADAR SOUTH	120.675 / 119.150
DOHA RADAR NORTH	121.100 / 121.625
DOHA APP EAST	124.775 / 120.600
DOHA DIRECTOR EAST	119.400 / 121.125
HAMAD ARRIVAL INFORMATION	126.825
HAMAD TWR WEST	118.025 / 118.225
HAMAD TWR EAST	118.525 / 118.225

DOHA/Hamad Intl. (OTHH)
RNP RWY 34L/R
LAEEB 1R / TOSNA 2R / TOVOX 2R



STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

DOHA/Hamad Intl.(OTHH)
RNP RWY 34L/R
LAEEB 1R / TOSNA 2R / TOVOX 2R

TABULAR DESCRIPTION

RNP STAR LAEEB 1R

Serial Num	Path Descriptor	Waypoint Identifier	Fly-over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA(°)/ TCH(ft)	Navigation Specification
1	IF	LAEEB	-	-	-2.6	-	-	-	-	-	RNP 1
2	TF	EMEXA	-	021 (024.0)	-2.6	10.6	-	@13000	-	-	RNP 1
3	TF	AFNAN	-	058 (060.8)	-2.6	24.9	-	+11000	-	-	RNP 1
4	TF	EMALO	-	336 (338.3)	-2.6	4.7	-	-	-	-	RNP 1
5	TF	MUTLI	-	336 (338.3)	-2.6	8.1	-	-	-	-	RNP 1
6	TF	LOVET	-	336 (338.8)	-2.6	7.6	-	@7000	-	-	RNP 2
7	TF	EGNUG	-	247 (249.3)	-2.6	9.4	-	@7000	-	-	RNP 1
8	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
9	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
10	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	+4000	-	-	RNP 1
11	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+2500/-3500	-220	-	RNP 1
12	FM	MUXED	-	156 (158.2)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only).										

RNP STAR TOSNA 2R

Serial Num	Path Descriptor	Waypoint Identifier	Fly-over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA(°)/ TCH(ft)	Navigation Specification
1	IF	TOSNA	-	-	-2.6	-	-	+FL200	-	-	RNP 1
2	TF	KUVLA	-	233 (236.0)	-2.6	16.1	-	-	-	-	RNP 1
3	TF	DINEX	-	214 (216.4)	-2.6	16.5	-	-	-250	-	RNP 1
4	TF	KIVAM	-	263 (265.5)	-2.6	10.5	-	-12000	-	-	RNP 1
5	TF	AFNAN	-	336 (338.4)	-2.6	10.7	-	+11000	-	-	RNP 1
6	TF	EMALO	-	336 (338.3)	-2.6	4.7	-	-	-	-	RNP 1
7	TF	MUTLI	-	336 (338.3)	-2.6	8.1	-	-	-	-	RNP 1
8	TF	LOVET	-	336 (338.8)	-2.6	7.6	-	@7000	-	-	RNP 1
9	TF	EGNUG	-	247 (249.3)	-2.6	9.4	-	@7000	-	-	RNP 1
10	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
11	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
12	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	+4000	-	-	RNP 1
13	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+2500/-3500	-220	-	RNP 1
14	FM	MUXED	-	156 (158.2)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only).										

RNP STAR TOVOX 2R

Serial Num	Path Descriptor	Waypoint Identifier	Fly-over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA(°)/ TCH(ft)	Navigation Specification
1	IF	TOVOX	-	-	-2.6	-	-	@FL180	-	-	RNP 1
2	TF	DINEX	-	268 (271.0)	-2.6	7.9	-	-	-	-	RNP 1
3	TF	KIVAM	-	263 (265.5)	-2.6	10.5	-	-12000	-250	-	RNP 1
4	TF	AFNAN	-	336 (338.4)	-2.6	10.7	-	+11000	-	-	RNP 1
5	TF	EMALO	-	336 (338.3)	-2.6	4.7	-	-	-	-	RNP 1
6	TF	MUTLI	-	336 (338.3)	-2.6	8.1	-	-	-	-	RNP 1
7	TF	LOVET	-	336 (338.8)	-2.6	7.6	-	@7000	-	-	RNP 1
8	TF	EGNUG	-	247 (249.3)	-2.6	9.4	-	@7000	-	-	RNP 1
9	TF	MISOX	-	156 (158.2)	-2.6	5.0	-	+6000	-	-	RNP 1
10	TF	SIDMU	-	156 (158.2)	-2.6	2.7	-	-	-	-	RNP 1
11	TF	LOVAN	-	156 (158.2)	-2.6	3.2	-	+4000	-	-	RNP 1
12	TF	MUXED	-	156 (158.2)	-2.6	4.9	-	+2500/-3500	-220	-	RNP 1
13	FM	MUXED	-	156 (158.2)	-2.6	-	-	-	-220	-	RNP 1
Remarks	Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only).										

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WAYPOINT LIST

RNP STAR LAEEB 1R / TOSNA 2R / TOVOX 2R

Waypoint Identifier	Coordinates
LAEEB	244106.38N 0513117.86E
EMEXA	245051.67N 0513603.93E
AFNAN	250300.80N 0515958.92E
EMALO	250723.36N 0515804.35E
MUTLI	251458.89N 0515445.23E
LOVET	252202.93N 0515144.51E
EGNUG	251843.02N 0514203.54E
MISOX	251403.48N 0514406.40E
SIDMU	251131.44N 0514513.15E
LOVAN	250831.68N 0514632.01E
MUXED	250356.10N 0514832.78E
TOSNA	251612.00N 0524116.00E
KUVLA	250710.18N 0522633.99E
DINEX	245349.88N 0521548.36E
KIVAM	245259.53N 0520420.77E
TOVOX	245341.54N 0522428.70E

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