RJNT / TOYAMA

AD CHART

TOYAMA AP

TRUE NORTH

OVERRUN AREA EDGE LGT

RTHL

PAPI Angle 3.0°
MEHT 19.2m(63ft)

360.07m

VOR/DME(TOE)

TAXIING GUIDANCE SIGN

A-APRON

APRON FLOOD LGT

CGL

WDIL

900 m

PAPI Angle 3.0°
MEHT 19.2m(63ft)

444.25m

B-APRON

RWY THR ID LGT

CHANGE: Size of spot 15.

TOWER

ABN

REMARKS : RWY GROOVING

				2000m× 30m
WIDTH & STRENGTH OF TWY				
T-1, T-2	30m		PCN	42/F/A/X/T
DIMENSION & STRENGTH OF APRON				
B-1	23m	131m	PCN	14/F/A/X/T
B-2	26.5m	62.8m	AUW	5700kg
B-3	15.5m	131m	AUW	5700kg
B-4	26.5m	68.2m	PCN	40/F/A/X/T
7-1			PCN	52/R/B/X/T
7-2			PCN	16/R/B/X/T

Mandatory Instruction Marking

02-20

02-20

Installed on TWY T1 and T2

A APRON

7-2

7-1

B-4 APRON

B-1 APRON

B-3 APRON

B-2 APRON

|20m|→|20m|→|20m|

16.5m 16.5m 22.5m 22.5m

26.5m

24m

15

18 H2 H1

14 13 12 11 14m

RAI

CROSS BAR

CENTER LINE BAR

SALS

438m

114m 57m

291 m

LONGITUDINAL PROFILE OF RWY

RWY 20

RWY 02

95 ft
(28.89 m)

84 ft
(25.54 m)

69 ft
(21.04 m)

63 ft
(19.34 m)

0.57 %

0.44 %

0.43 %

0 m

585 m

1610 m

2000 m

STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA   SID and TRANSITION

 IKUJI FIVE DEPARTURE

RWY02 : Climb via TOE R010 to 7.0DME...
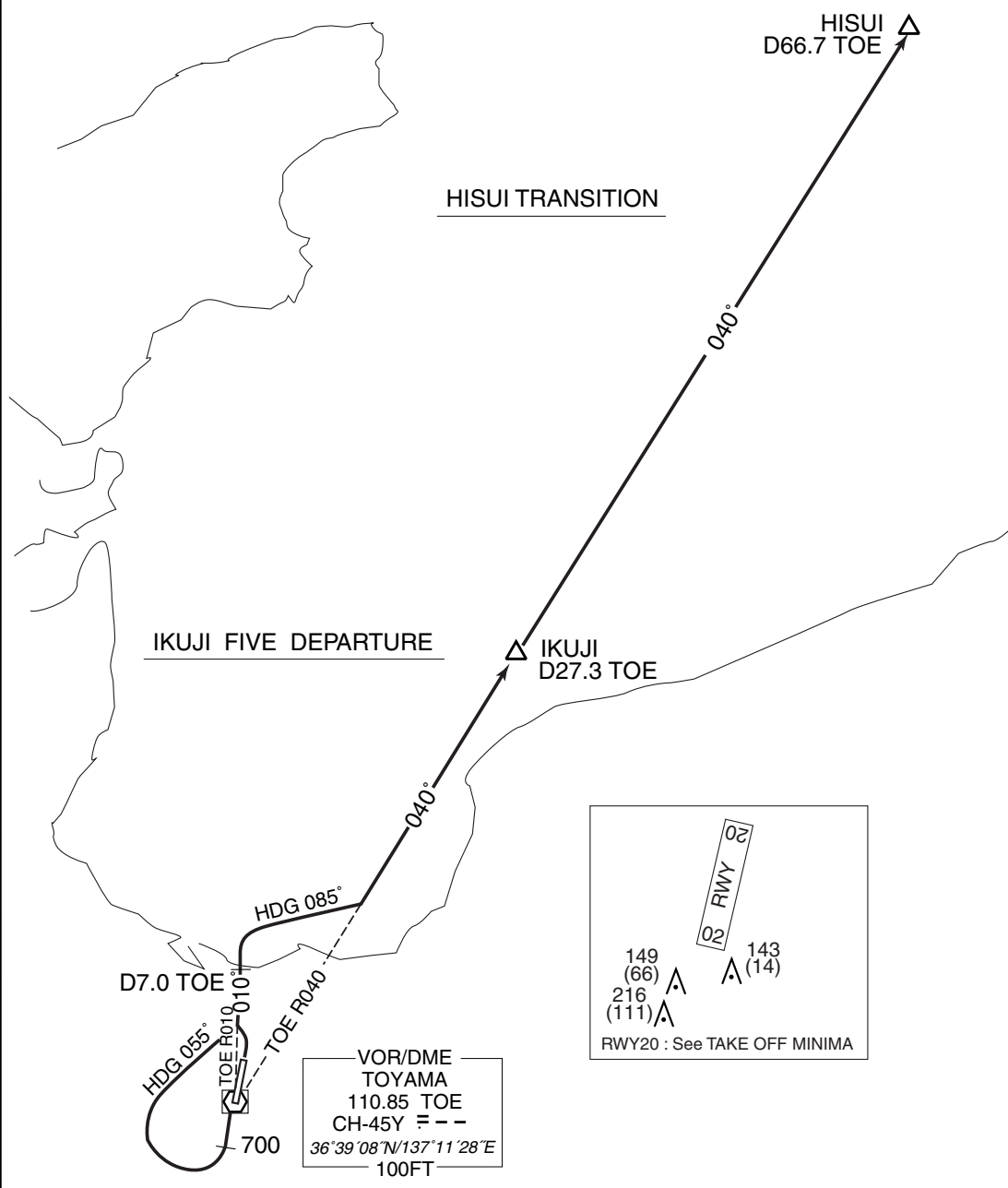
RWY20 : Climb RWY HDG until 700FT, turn right HDG 055˚ to intercept
          and proceed via TOE R010 to TOE 7.0DME...
          ...turn right HDG 085˚ to intercept and proceed via
          TOE R040 to IKUJI.

NOTE RWY20 : 5.0% climb gradient required up to 2000FT.
               OBST ALT 762FT located at 3.8NM 202˚ FM end of RWY20.

 HISUI TRANSITION

From over IKUJI, climb via TOE R040 to HISUI.

HISUI TRANSITION

HISUI △
D66.7 TOE

IKUJI FIVE DEPARTURE

IKUJI △
D27.3 TOE

040˚

040˚

HDG 085˚

D7.0 TOE

HDG 055˚

TOE R010 010˚

TOE R040

700

VOR/DME
TOYAMA
110.85 TOE
CH-45Y
36˚39´08˝N/137˚11´28˝E
100FT

RWY
20
02

149
(66)

143
(14)

216
(111)

RWY20 : See TAKE OFF MINIMA

STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA   SID

URUSI REVERSAL FOUR DEPARTURE
 RWY02 : Climb RWY HDG until 700FT, turn left, climb...
 RWY20 : Climb RWY HDG until 700FT, turn right HDG 037° to intercept and proceed...
  ...via TOE R352 to NANAO, turn right, proceed via TOE R010 to
  intercept and proceed via KMC R061 to URUSI.

 NOTE RWY02 : 4.0% climb gradient required up to 1000FT.
  OBST ALT 621FT located at 2.8NM 345° FM end of RWY02.
  RWY20 : 5.0% climb gradient required up to 2000FT.
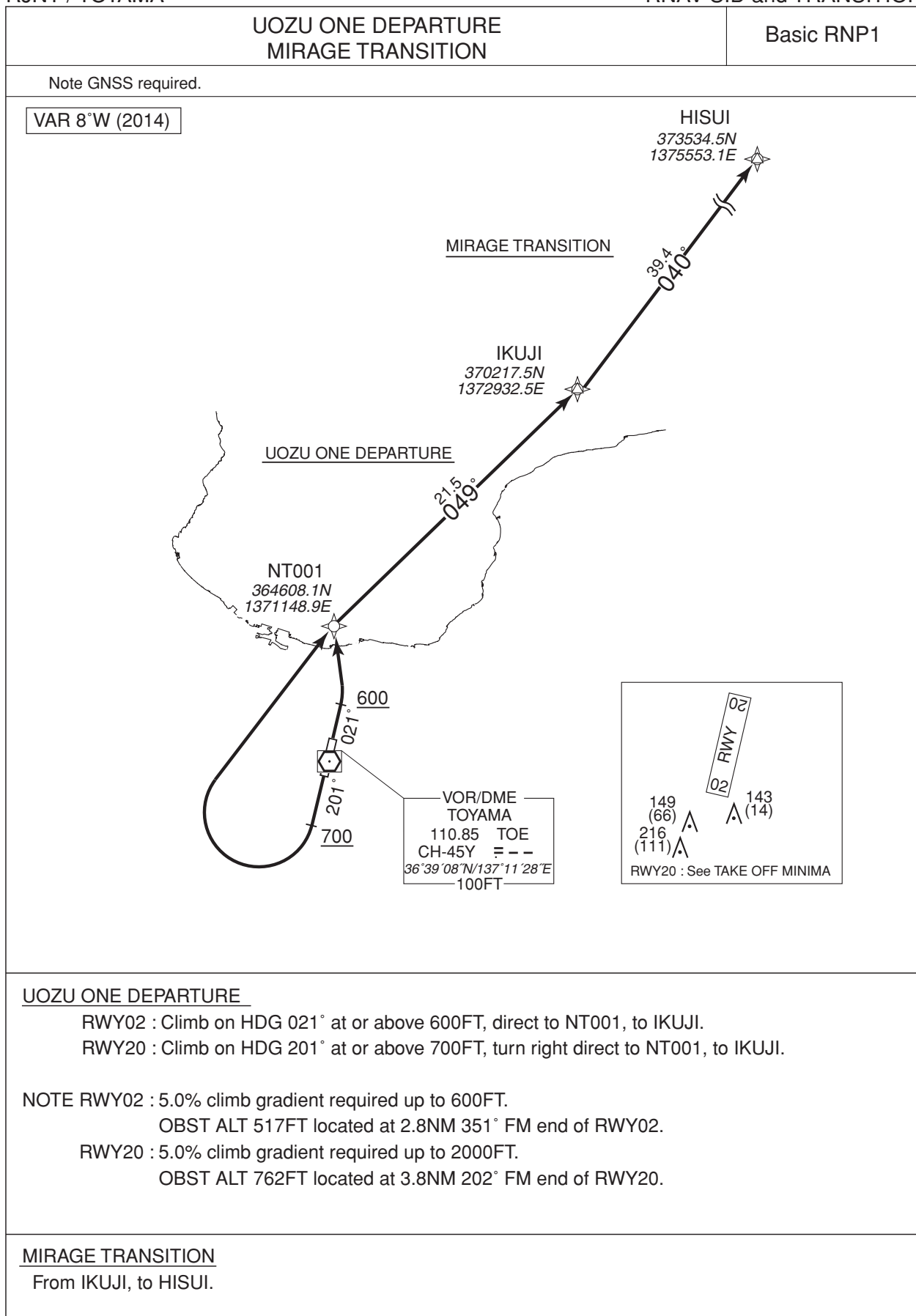 OBST ALT 762FT located at 3.8NM 202° FM end of RWY20.

URUSI REVERSAL FOUR DEPARTURE

NANAO
D25.0 TOE

352°

190°

D14.5 TOE

URUSI
D10.4 TOE

KMC R061

TOE R010

VORTAC
KOMATSU
112.0 KMC
CH-57X
36°23´47˝N/136°24´15˝E

HDG 037°

TOE R352

700

700

VOR/DME
TOYAMA
110.85 TOE
CH-45Y
36°39´08˝N/137°11´28˝E
100FT

RWY 20
RWY 02

149
(66)
216
(111)

143
(14)

RWY20 : See TAKE OFF MINIMA

CHANGE : Minor change

STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA   RNAV SID and TRANSITION

UOZU ONE DEPARTURE MIRAGE TRANSITION	Basic RNP1

Note GNSS required.

VAR 8˚W (2014)

HISUI
373534.5N
1375553.1E

MIRAGE TRANSITION

39.4˚
040˚

IKUJI
370217.5N
1372932.5E

UOZU ONE DEPARTURE

21.5˚
049˚

NT001
364608.1N
1371148.9E

600
021˚

201˚

700

VOR/DME
TOYAMA
110.85   TOE
CH-45Y ≡ – –
36˚39´08˝N/137˚11´28˝E
100FT

RWY
20
02

149
(66)
216
(111)
143
(14)

RWY20 : See TAKE OFF MINIMA

UOZU ONE DEPARTURE
 RWY02 : Climb on HDG 021˚ at or above 600FT, direct to NT001, to IKUJI.
 RWY20 : Climb on HDG 201˚ at or above 700FT, turn right direct to NT001, to IKUJI.

NOTE RWY02 : 5.0% climb gradient required up to 600FT.
    OBST ALT 517FT located at 2.8NM 351˚ FM end of RWY02.
 RWY20 : 5.0% climb gradient required up to 2000FT.
    OBST ALT 762FT located at 3.8NM 202˚ FM end of RWY20.

MIRAGE TRANSITION
 From IKUJI, to HISUI.

STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA   RNAV SID and TRANSITION

UOZU ONE DEPARTURE

RWY02

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [˚M(˚T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	021 (013.5)	-7.8	–	–	+600	–	–	Basic RNP1
002	DF	NT001	–	–	-7.8	–	–	–	–	–	Basic RNP1
003	TF	IKUJI	–	049 (041.2)	-7.8	21.5	–	–	–	–	Basic RNP1

RWY20

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [˚M(˚T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	–	–	201 (193.5)	-7.8	–	–	+700	–	–	Basic RNP1
002	DF	NT001	–	–	-7.8	–	R	–	–	–	Basic RNP1
003	TF	IKUJI	–	049 (041.2)	-7.8	21.5	–	–	–	–	Basic RNP1

MIRAGE TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [˚M(˚T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	IKUJI	–	–	-7.8	–	–	–	–	–	Basic RNP1
002	TF	HISUI	–	040 (032.1)	-7.8	39.4	–	–	–	–	Basic RNP1

STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA   STAR

OHANA ARRIVAL

From over OHANA, proceed via TOE R021 to MEDIC.
Cross MEDIC at or above 3000FT.

TOYAMA ARRIVAL

From over URUSI, proceed via TOE R352, turn right to intercept and proceed via
TOE R021 to MEDIC within TOE 32.0DME.
Cross MEDIC at or above 3000FT.

OHANA
D48.4 TOE

VOR/DME
NOTO
111.45 NTE
CH-51Y
37°17′24″N/136°57′46″E
800FT

201°

OHANA ARRIVAL

D36.0 TOE

D32.0 TOE

MHA 3000

NOBEL
D30.0 TOE

TOYAMA ARRIVAL

201°

D16.4 TOE

352°

MHA 3000
3000

URUSI
D10.4 TOE

MEDIC
D11.4 TOE

TOE R021

VOR/DME
TOYAMA
110.85 TOE
CH-45Y
36°39′08″N/137°11′28″E
100FT
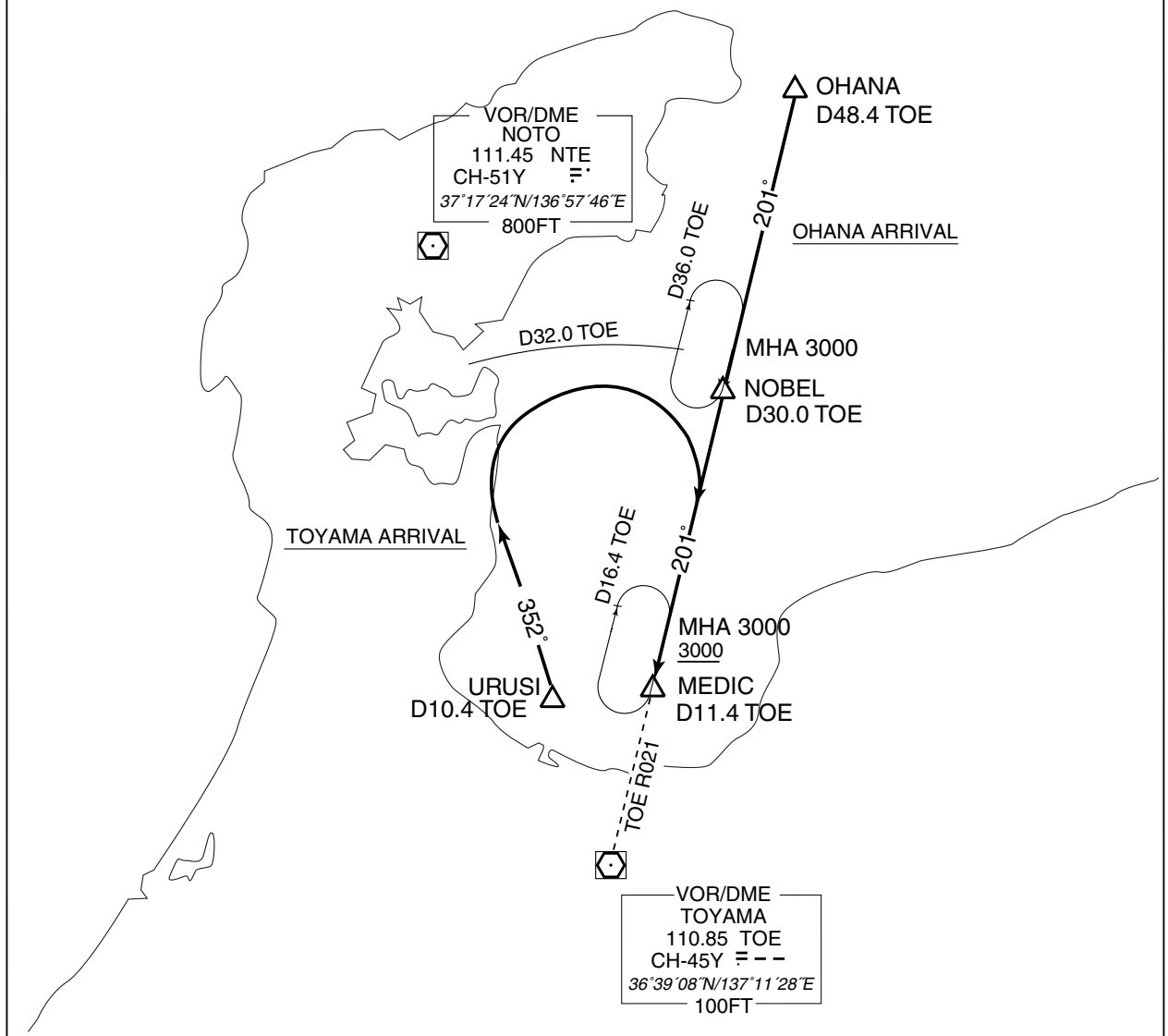
STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA		RNAV STAR
NANAO ARRIVAL		Basic RNP1

Note GNSS required.

VAR 8°W (2014)

NT050
370646.3N
1370713.0E

NT051
370637.9N
1371447.7E

6.1
—099°—

5.0
052°

142°
4.7

NANAO
370310.1N
1370252.8E

MAX 250KIAS

NT052
370323.4N
1371858.3E

NANAO ARRIVAL

14.6
352°

13.6
202°

MEDIC
365010.5N
1371447.2E
3000

URUSI
364909.2N
1370753.5E

VOR/DME
TOYAMA
110.85   TOE
CH-45Y ͢ ‒ ‒
36°39´08˝N/137°11´28˝E
100FT

NANAO ARRIVAL

From URUSI, to NANAO, to NT050, to NT051, to NT052, to MEDIC at or above 3000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	URUSI	–	–	-7.8	–	–	–	–	–	Basic RNP1
002	TF	NANAO	–	352 (344.1)	-7.8	14.6	–	–	-250	–	Basic RNP1
003	TF	NT050	–	052 (043.8)	-7.8	5.0	–	–	–	–	Basic RNP1
004	TF	NT051	–	099 (091.3)	-7.8	6.1	–	–	–	–	Basic RNP1
005	TF	NT052	–	142 (134.2)	-7.8	4.7	–	–	–	–	Basic RNP1
006	TF	MEDIC	–	202 (194.2)	-7.8	13.6	–	+3000	–	–	Basic RNP1

STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA

RNAV STAR

MANYO ARRIVAL	Basic RNP1

Note GNSS required.

VAR 8°W (2014)

NT053
365406.9N
1370820.4E

MEDIC
365010.5N
1371447.2E
3000

MANYO
364446.1N
1365931.1E
8000

MANYO ARRIVAL

OYABE
363618.4N
1364513.0E

VOR/DME
TOYAMA
110.85   TOE
CH-45Y
36°39´08˝N/137°11´28˝E
100FT

MANYO ARRIVAL

From OYABE, to MANYO at or above 8000FT, to NT053, to MEDIC at or above 3000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	OYABE	–	–	-7.8	–	–	–	–	–	Basic RNP1
002	TF	MANYO	–	061 (053.5)	-7.8	14.3	–	+8000	–	–	Basic RNP1
003	TF	NT053	–	045 (037.0)	-7.8	11.7	–	–	–	–	Basic RNP1
004	TF	MEDIC	–	135 (127.4)	-7.8	6.5	–	+3000	–	–	Basic RNP1

STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA		RNAV STAR
	GENGE ARRIVAL	Basic RNP1

Note GNSS required.

VAR 8˚W (2014)

GENGE
373231.9N
1374600.9E

31.8
228°

GENGE ARRIVAL

NOBEL
370817.9N
1372015.0E

18.7
201°

MEDIC
365010.5N
1371447.2E
3000

VOR/DME
TOYAMA
110.85   TOE
CH-45Y
36˚39´08˝N/137˚11´28˝E
100FT

D35.0 TOE
021°   201°
NOBEL
D30.0 TOE
TOE R021
TOE
VOR/DME
MHA 3000
MAX 230KIAS
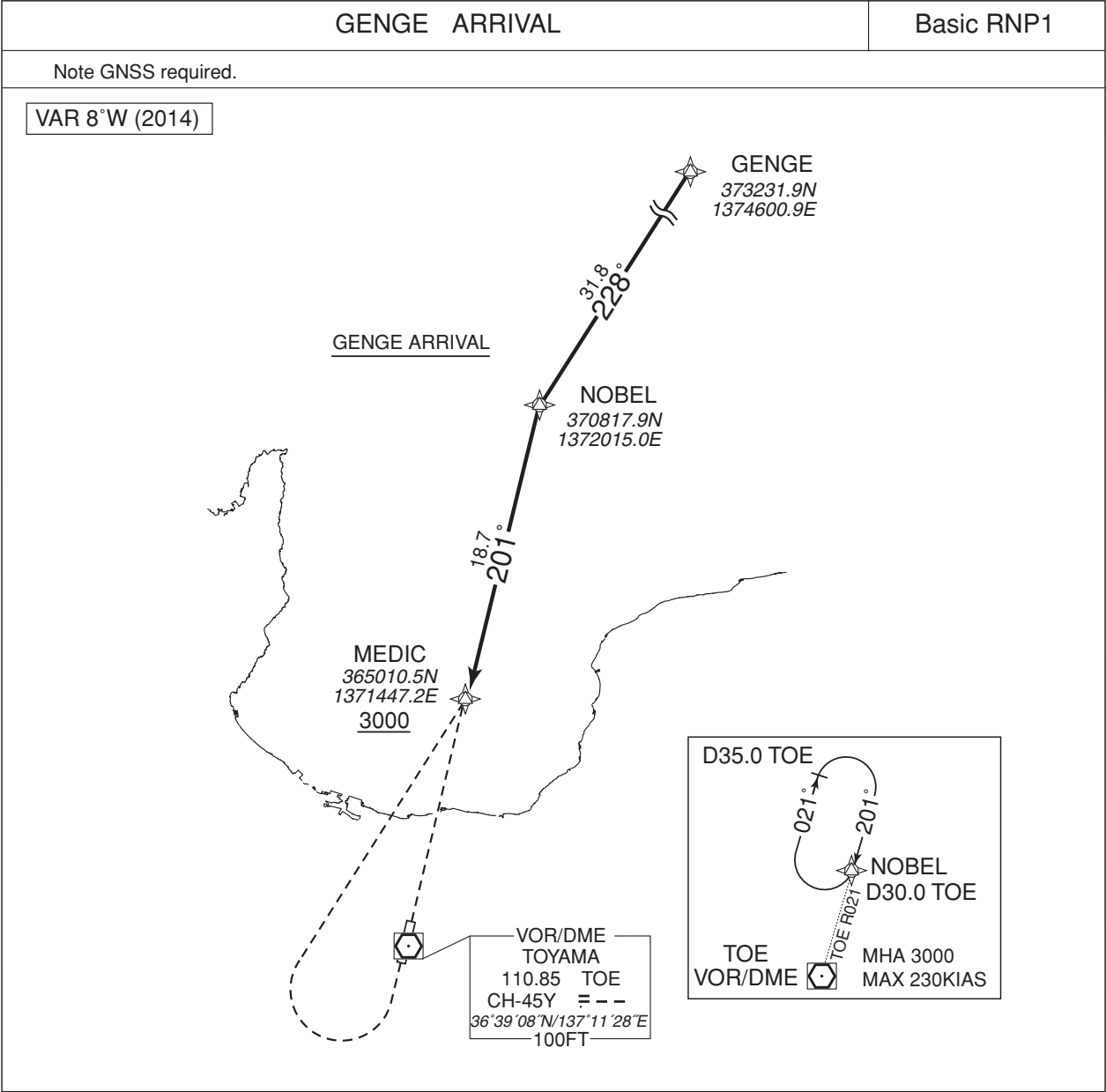
GENGE ARRIVAL

From GENGE, to NOBEL, to MEDIC at or above 3000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GENGE	–	–	-7.8	–	–	–	–	–	Basic RNP1
002	TF	NOBEL	–	228 (220.3)	-7.8	31.8	–	–	–	–	Basic RNP1
003	TF	MEDIC	–	201 (193.6)	-7.8	18.7	–	+3000	–	–	Basic RNP1

INSTRUMENT APPROACH CHART

RJNT / TOYAMA   LOC Z RWY20

TOKYO CONTROL 132.45-125.6 304.4 -317.1	LOC 109.3 ITO ≔ ‒ ‒ LOC-DME CH-30X	TOYAMA TOWER 124.3-126.2	NO RADAR

VAR 8°W (2014)

EQPT REQUIRED
DME
VOR

MSA 25NM

180° 10900
4000
090° TOE 270°
7300   11500
360°

MHA 3000
MAX 230KIAS
D17.0 TOE
021°   201°
MEDIC
D11.4 TOE
TOE R021

MEDIC(IF)
D11.4 TOE
D12.0 ITO

•1145

10NM

180°

535

EBUSI (FAF)
D6.0 ITO

374
348

634
476
220

VOR/DME
TOYAMA
110.85 TOE
CH-45Y ≔ ‒ ‒
36°39´08˝N/137°11´28˝E

TOYAMA CITY

202°   021°

202°

202° HDG 336°

MAPt
D1.0 ITO

LOC OFFSET 0.9°

090°   • 630

6086

4734

270°

3143

EBUSI(FAF) : 364421.57N/1371255.24E

1834   8550 •

NM to ITO	MAPt	3	4	5	FAF
ALT (3.0° APCH Path)	–	773	1091	1410	1728

MISSED APPROACH

Turn left HDG336° to intercept
and proceed via TOE R021 to
MEDIC and hold at 3000FT.
Contact TOYAMA TOWER.

No turn before MAPt.
Timing not authorized for defining the MAPt.

TOE

MEDIC (IF)
3000

EBUSI (FAF)
1728
202°

SDF
773
202°

MAPt VDP
3.0°

MDA

510 (447)

1100 (1037)

DME to ITO	0.9	1.0	2.1	3.0	6.0	12.0
NM to THR	0	0.1	1.1	2.1	5.1	11.1

Missed APCH climb gradient MNM 3.0%

MINIMA	THR elev. 63		AD elev. 77	
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	470 (407)	900	590 (513)	1600
B		1000		
C			630 (553)	2400
D		1400		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

RJNT / TOYAMA LOC Y RWY20

TOKYO CONTROL 132.45 - 125.6 304.4 - 317.1	LOC 109.3 ITO ·−− LOC-DME CH-30X	TOYAMA TOWER 124.3 - 126.2	NO RADAR

VAR 8°W (2014)

MSA 25NM

4000 | 10900
090° TOE 270°
7300 | 11500

·1145

EQPT REQUIRED
DME
VOR

Turn initiation within D11.0 TOE
MEDIC D11.4 TOE
MAX Turning speed 200KIAS
180°
021°
202°
005°

D17.0 TOE
MHA 3000 MAX 230KIAS
021° 201°
MEDIC D11.4 TOE
TOE R021

6086 ·

10NM

EBUSI (FAF) D6.0 ITO

348
374

VOR/DME TOYAMA 110.85 TOE CH-45Y ·−−
36°39'08"N/137°11'28"E

535
476 ·
634
220

MAPt D1.0 ITO

202°
336°
HDG

TOYAMA CITY

4734
·

270°

3143
·

HOLDING ALT 8000 / 6000
220° TOE 040°
·630

LOC OFFSET 0.9°

1834
·

8550 ·

MAX 200KIAS

EBUSI(FAF) : 364421.57N/1371255.24E

NM to ITO	MAPt	3	4	5	FAF
ALT (3.0° APCH Path)	−	773	1091	1410	1728

MISSED APPROACH
Turn left HDG336° to intercept and proceed via TOE R021 to MEDIC and hold at 3000FT. Contact TOYAMA TOWER.

No turn before MAPt.
Timing not authorized for defining the MAPt.

TOE 6000
005°
Turn initiation within D11.0 TOE

1728 EBUSI (FAF)
202° 1700

SDF
773
202°
3.0°
MAPt VDP
MDA

510 (447)
1100 (1037)

DME to ITO	0.9	1.0	2.1	3.0	6.0
NM to THR	0	0.1	1.1	2.1	5.1

Missed APCH climb gradient MNM 3.0%

MINIMA	THR elev. 63		AD elev. 77	
			CIRCLING	
CAT	MDA(H)	CMV	MDA(H)	VIS
A	470 (407)	900	590 (513)	1600
B		1000		
C			630 (553)	2400
D		1400		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

RJNT / TOYAMA   RNAV(GNSS) Z RWY20

TOKYO CONTROL 132.45-125.6 304.4 -317.1	1. DME/DME RNP0.3 not authorized. 2. RNP0.3 required. 3. GNSS required.	TOYAMA TOWER 124.3 - 126.2	NO RADAR

Baro-VNAV not authorized below -10˚C

VAR 8˚W (2014)

MSA 25NM

11500

ARP

ARP:363854N/1371115E

MEDIC (IF/MAHF)	365010.50N 1371447.15E
TULIP (FAF)	364416.93N 1371251.54E
RW20 (MAPt)	363925.86N 1371124.14E

MEDIC (IF/MAHF)

10NM

535

374
348
634
476
220

TULIP (FAF)

6.1˚
202˚ (194.7˚T)

5.0˚ (193.5˚T)
201˚
TOE R021

RW20 (MAPt)

VOR/DME TOYAMA 110.85 TOE CH-45Y 36˚39´08˝N/137˚11´28˝E

630

090˚

270˚

4734

D17.0 TOE   MHA 3000 MAX 230KIAS

021˚   201˚

MEDIC (IF/MAHF) D11.4 TOE

TOE R021

6857

1834

2474

3238

4026

NM to Next Fix	MAPt	2	3	4	FAF
ALT (3.0˚ APCH Path)	–	750	1068	1387	1700

MISSED APPROACH

Turn right, climb to 3000FT, direct to MEDIC and hold.
Contact TOYAMA TWR.

(For using VOR/DME)
Turn right to intercept and proceed via TOE R021 to MEDIC and hold at 3000FT.
Contact TOYAMA TWR.

TOE

MEDIC (IF)

TULIP (FAF)
1700   202˚   3000

VDP (LNAV)   SDF (LNAV)

RW20 (MAPt)   750
3.00˚   201˚

RDH50

MDA   640 (577)   1100 (1037)

NM to THR	0	1.1	2.0	5.0	11.1

Missed APCH climb gradient MNM 3.0%

MINIMA	THR elev. 63		AD elev. 77			
CAT	**LNAV/VNAV**		**LNAV**		**CIRCLING**	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	470 (407)	900	470 (407)	900	590 (513)	1600
B		1000		1000		
C					630 (553)	2400
D		1400		1400		3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

RJNT / TOYAMA   RNAV(RNP) RWY02

TOKYO CONTROL 132.45-125.6 304.4 -317.1	GNSS and RF required	TOYAMA TOWER 124.3-126.2	NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -10℃/ above 50℃

VAR 8˚W (2014)

MSA RW02 25NM

10900 (180˚)
4400 (270˚ side)
090˚
270˚
7300 (360˚)
11500

1 0 1 2 3 4 5 6 7 8 9 10 KM
1 0 1 2 3 4 5 NM

MEDIC (IF/MAHF)

10NM

4.6 / 023˚

Å 730
Å 264
533 Å   NT252

14.0 / 225˚

7.6 / 021˚

Å 621

NT250
MAX 185KIAS

3.1

RW02
021˚/1.8
Å 290
NT251

OWARA (FAF)

•2165
Å 2231

7.1

•1706

OWARA(FAF) : 363607.70N/1370349.71E

D17.0 TOE
021˚   201˚
MEDIC
D11.4 TOE
MHA 3000
MAX 230KIAS
R021

VOR/DME
TOYAMA
110.85 TOE
CH-45Y
36˚39´08˝N/137˚11´28˝E

NOT TO SCALE

MEDIC (IF)
3000

NT250
OWARA (FAF) 3000

225˚
3000
NT251
723
3.00˚ 021˚
RW02
RDH 50

MISSED APPROACH

Climb to 3000FT, to NT252, to MEDIC and hold. Contact TOYAMA TWR.

26.0   12.0 8.9   1.8   0   NM to THR

MINIMA	THR elev. 95		AD elev. 77
CAT	RNP 0.30		
	DA(H)	CMV	
A	–	–	
B	–	–	
C	451 (356)	1800	
D		2000	

RNP AR
Special Authorization Required

INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNAV(RNP) RWY02

RNAV(RNP) RWY02

Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (˚/FT)	RNP Value
001	IF	MEDIC	–	–	-7.8	–	–	+3000	–	–	–
002	TF	NT250	–	225 (217.2)	-7.8	14.0	–	+3000	-185	–	1.0
003	RF Center: NTRF1 r=2.87NM	OWARA	–	–	-7.8	3.1	L	3000	–	–	1.0
004	RF Center: NTRF1 r=2.87NM	NT251	–	–	-7.8	7.1	L	723	–	-3.00	0.3
005	TF	RW02	Y	021 (013.5)	-7.8	1.8	–	145	–	-3.00/50	0.3
006	TF	NT252	–	021 (013.5)	-7.8	7.6	–	–	–	–	1.0
007	TF	MEDIC	–	023 (015.0)	-7.8	4.6	–	3000	–	–	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
MEDIC	365010.50N/1371447.15E	NTRF1	363717.08N/1370705.51E
NT250	363901.33N/1370415.09E		
OWARA	363607.70N/1370349.71E		
NT251	363636.65N/1371033.43E		
RW02	363822.79N/1371105.23E		
NT252	364543.55N/1371317.58E		

INSTRUMENT APPROACH CHART

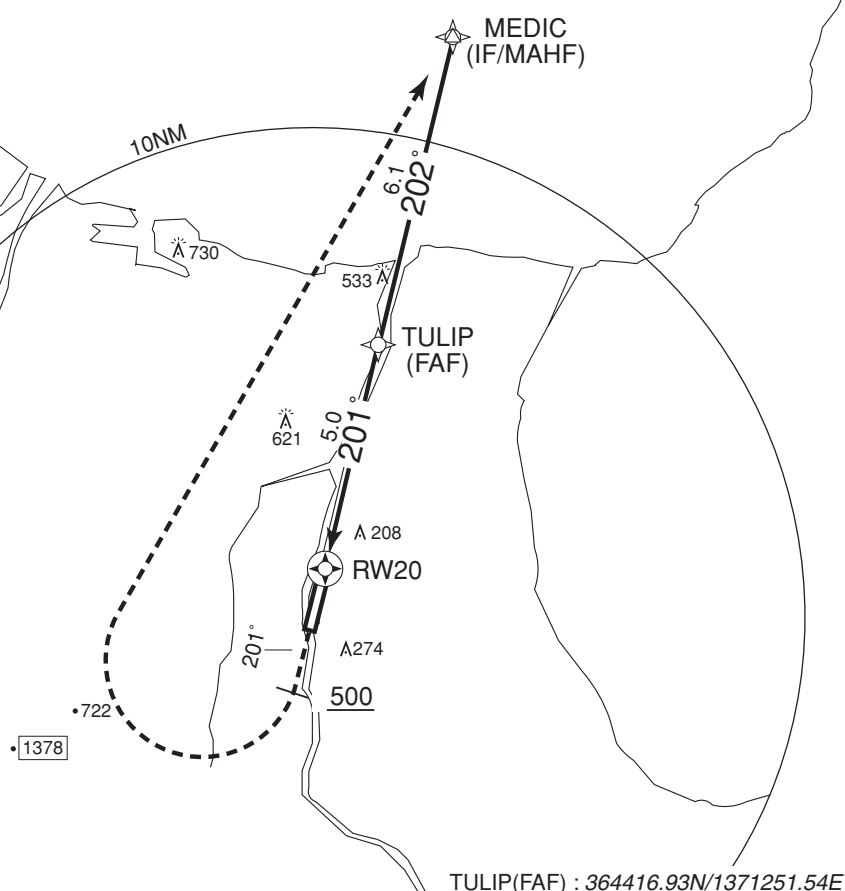| RJNT / TOYAMA			RNAV(RNP) Y RWY20
TOKYO CONTROL 132.45-125.6 304.4 -317.1	GNSS required	TOYAMA TOWER 124.3-126.2	NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -10°C/ above 50°C

VAR 8°W (2014)

MSA RW20 25NM

MSA sectors: 180° 10900; 090° 3900; 270° 7300 / 11500; 360°

MEDIC (IF/MAHF)
TULIP (FAF)
RW20
10NM
202° 6.1
201° 5.0
730 △
533 △
621 △
208 △
274 △
722 •
1378
500

Inset:
D17.0 TOE
021° / 201°
MHA 3000
MAX 230KIAS
MEDIC D11.4 TOE
R021
VOR/DME TOYAMA 110.85 TOE CH-45Y
36°39′08″N/137°11′28″E
NOT TO SCALE

TULIP(FAF) : 364416.93N/1371251.54E

MISSED APPROACH

From RW20 on track 201°, at or above 500FT turn right, direct to MEDIC and hold at 3000FT.
Contact TOYAMA TWR.

MEDIC (IF) 3000
TULIP (FAF) 1700
RW20 RDH 50
202° / 201° / 3.00°

| NM to THR | 0 | 5.0 | 11.1 |

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 63		AD elev. 77
CAT	RNP 0.30		
	DA(H)	CMV	
A	–	–	
B	–	–	
C	370 (307)	1000	
D		1400	

MINIMA with Missed APCH climb gradient of 2.5% are not established.

RNP AR
Special Authorization Required

INSTRUMENT APPROACH CHART

RJNT / TOYAMA   RNAV(RNP) Y RWY20

RNAV(RNP) Y RWY20

Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	MEDIC	–	–	-7.8	–	–	+3000	–	–	–
002	TF	TULIP	–	202 (194.7)	-7.8	6.1	–	1700	–	–	1.0
003	TF	RW20	Y	201 (193.5)	-7.8	5.0	–	113	–	-3.00/50	0.3
004	FA	–	–	201 (193.5)	-7.8	–	–	+500	–	–	1.0
005	DF	MEDIC	–	–	-7.8	–	R	3000	–	–	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates
MEDIC	*365010.50N/1371447.15E*
TULIP	*364416.93N/1371251.54E*
RW20	*363925.86N/1371124.14E*

INSTRUMENT APPROACH CHART

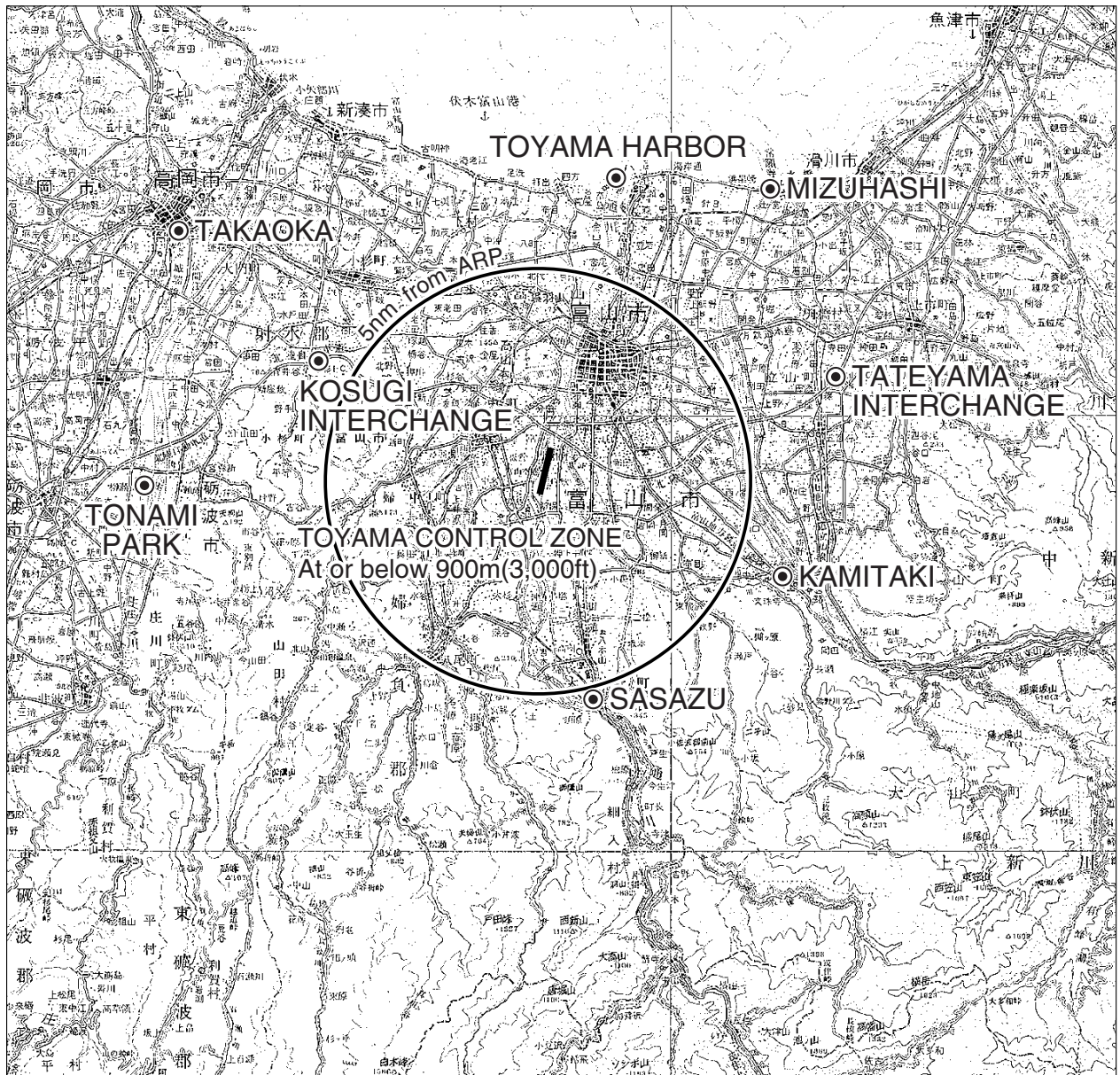RJNT / TOYAMA   VOR A

TOKYO CONTROL 132.45-125.6 304.4 -317.1	TOYAMA VOR/DME 110.85 TOE CH-45Y ﹦﹣﹣ *36°39′08″N/137°11′28″E*	TOYAMA TOWER 124.3 - 126.2	NO RADAR

VAR 8°W (2013)

MSA 25NM

Turn initiation within
D11.0 TOE

MAX Turning speed
200KIAS

EQPT REQUIRED
DME

MSA compass rose: 180°, 4000 / 10900, 090° TOE 270°, 7300 / 11500, 360°

10NM

535
374
348
634
476
220

010°

215°

040°

GANDO(FAF)
D5.0 TOE

215°   355° HDG

TOYAMA
CITY

4734

270°

MAPt

3143

090°

630

1834

HOLDING ALT   8000 / 6000

TOE

220°   040°

MAX 200KIAS

3238

2474

5574

6857

4026

GANDO(FAF) : *364334.45N/1371419.96E*

MISSED APPROACH
Turn left, climb to 3000FT on
HDG355° to intercept and proceed
via TOE R040, turn left direct to
TOE VOR/DME and hold at
6000FT.
Contact TOYAMA TOWER.

TOE
6000

019°

Turn initiation within
D11.0 TOE

GANDO
(FAF)

215°   1700

SDF

215°   215°

MAPt

670
(593)

800
(723)

MDA

DME to TOE   2.0   5.0

Missed APCH climb gradient MNM 3.5%

MINIMA			AD elev. 77
CAT	CIRCLING		
	MDA(H)	VIS	
A	590 (513)	1600	
B			
C	630 (553)	2400	
D		3200	

MINIMA with Missed APCH climb gradient of 2.5% are not established.

RJNT / TOYAMA

Visual REP

Call sign	BRG / DIST from ARP	Remarks
富山ハーバー Toyama harbor	022°/7.1NM	港 Harbor
高　　岡 Takaoka	312°/10.0NM	JR駅 JR Station
小杉インターチェンジ Kosugi Interchange	304°/5.7NM	北陸自動車道インターチェンジ Interchange
立山インターチェンジ Tateyama Interchange	080°/7.0NM	北陸自動車道インターチェンジ Interchange
水　　橋 Mizuhashi	046°/8.6NM	（常願寺川）河口 River-mouth
上　　滝 Kamitaki	121°/5.7NM	駅 Station
笹　　津 Sasazu	175°/5.3NM	JR駅 JR Station
砺波パーク Tonami Park	275°/9.0NM	砺波総合運動公園 Park

LDG CHART

OBSTRCTION NR	AGL (FT)	MSL (FT)	AERONAUTICAL OBSTRUCTIONS LIGHTS	DAY MARKINGS
1	185	220	○	○
2	176	213	○	○
3	45	97	○	○
4	187	256	○	○
5	159	233	○	○
6	178	246	○	○
7	173	249	—	○
8	192	262	—	○
9	189	259	○	○
10	189	263	—	○
11	189	282	○	○
12	189	299	—	○
13	120	212	○	○
14	135	261	—	○
15	167	273	○	○
16	125	236	○	○
17	125	238	—	○
18	110	228	○	○
19	125	249	—	○
20	120	231	○	○
21	103	222	○	○
22	132	270	—	○
23	132	279	○	—
24	135	286	—	—
25	51	223	○	—
26	71	243	○	—
27	135	283	—	—
28	120	266	—	—
29	47	149	○	○

RJNT / TOYAMA

ELEV 77ft

•149

VAR 8°W
2009

VOR/DME
TOYAMA
110.85   TOE
CH-45Y
36°39′08″N/137°11′28″E

PAPI ANGLE 3.0°
MEHT 19.2m(63ft)
360m fm THR

PAPI ANGLE 3.0°
MEHT 19.2m(63ft)
444m fm THR

Asph-Conc
6560x150ft

TOYAMA
TOWER
124.3-126.2

SALS
RA
ABN
CGL

ELEVATIONS AND
HEIGHTS IN FEET
MEAN SEA LEVEL

•573   •543

SCALE

RJNT / TOYAMA   Minimum Vectoring Altitude CHART

30NM

370106N
1373627E

6000

12000

363547N
1374820E

362751N
1363637E

11000

13000

360913N
1370526E

CENTER : *363854N/1371115E* (ARP)