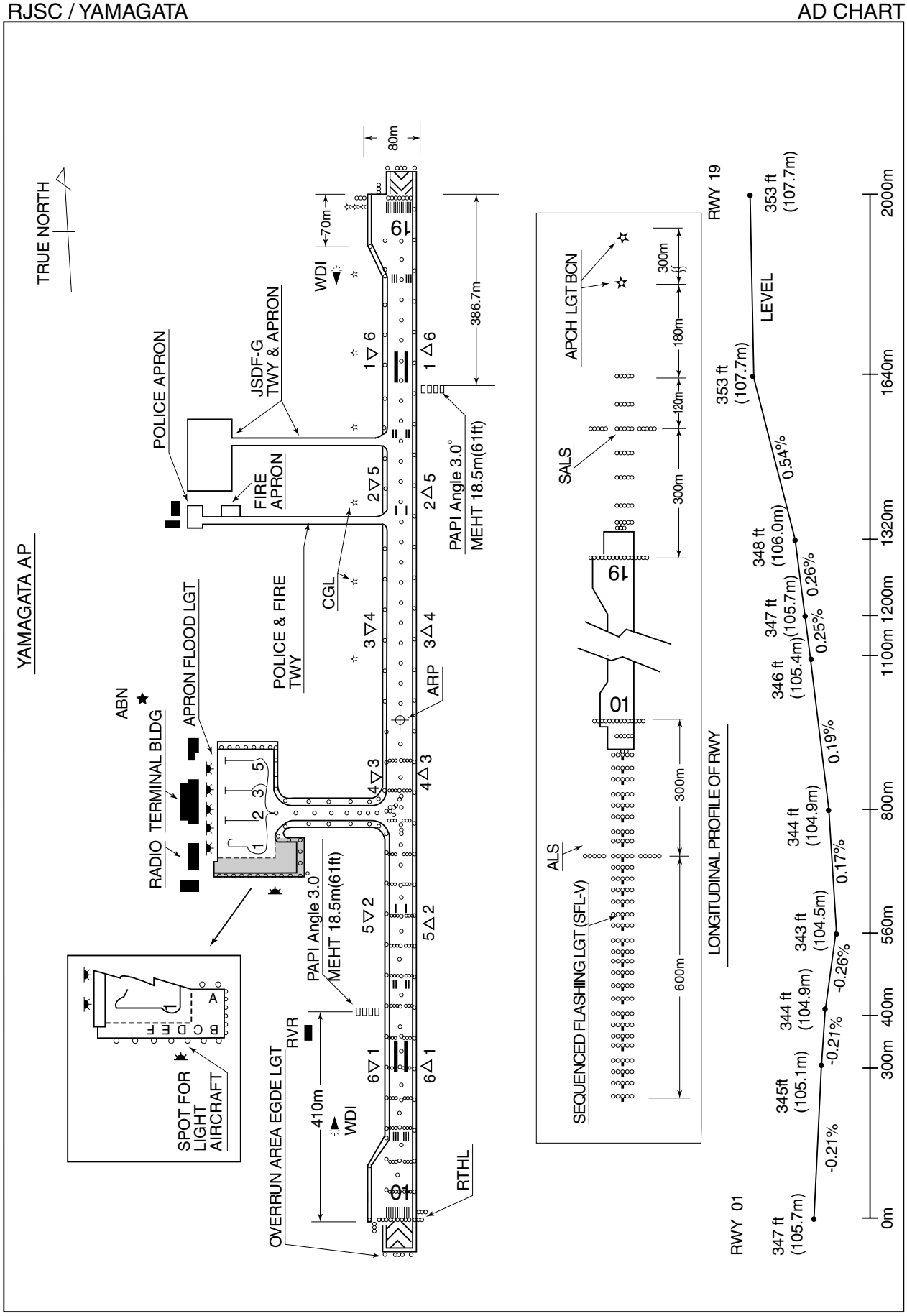
RJSC / YAMAGATA AD CHART



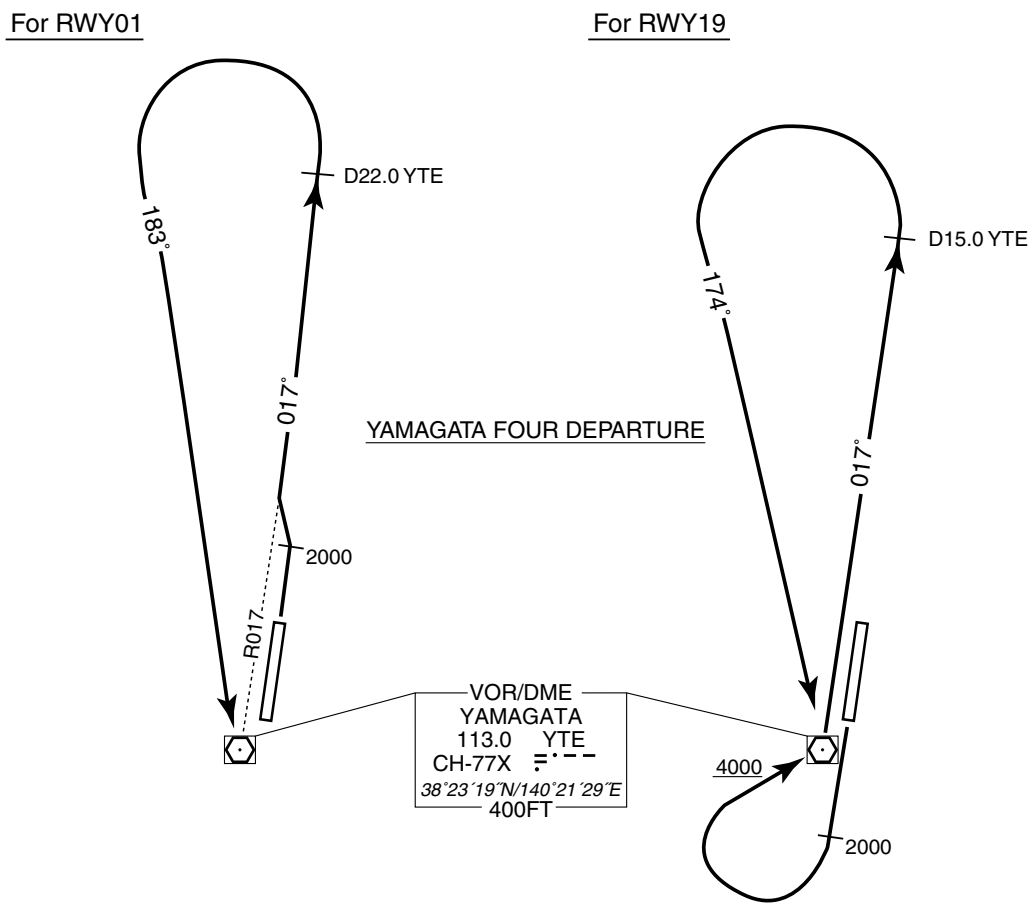
STANDARD DEPARTURE CHART-INSTRUMENT

RJSC / YAMAGATA SID

YAMAGATA FOUR DEPARTURE

RWY01 : Climb RWY HDG to 2000FT, via YTE R017 to 22.0DME, turn left, via YTE R003 to YTE VOR/DME.
RWY19 : Climb RWY HDG to 2000FT, turn right, direct to YTE VOR/DME, cross YTE VOR/DME at or above 4000FT, via YTE R017 to 15.0DME, turn left, via YTE R354 to YTE VOR/DME.

Note RWY01: 5.0% climb gradient required up to 2000FT.
OBST ALT 1182FT located at 4.2NM 033˚ FM end of RWY01.
RWY19: 5.0% climb gradient required up to 2000FT.
OBST ALT 788FT located at 3.1NM 181˚ FM end of RWY19.
Note No turn before DER.

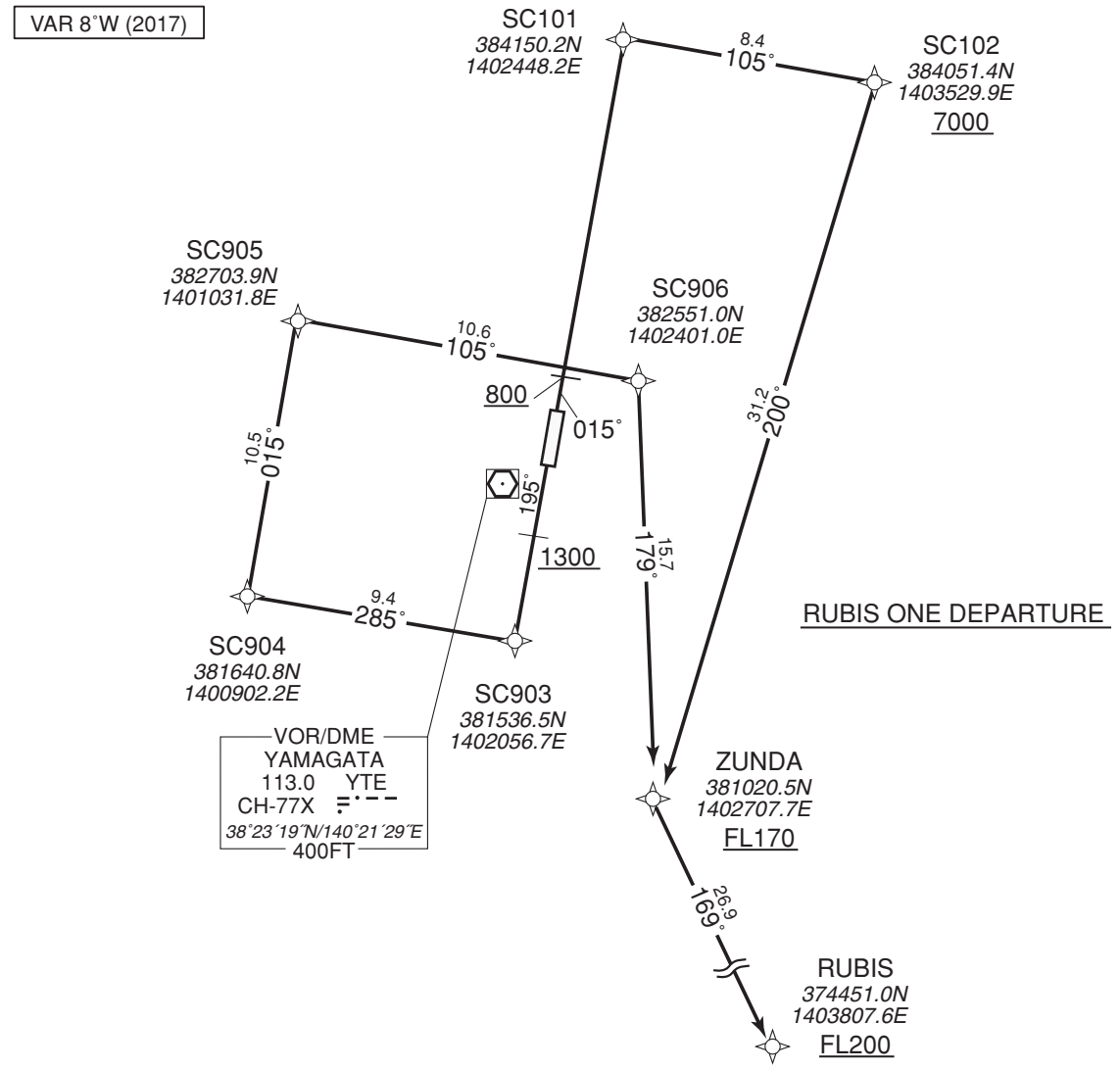


STANDARD DEPARTURE CHART-INSTRUMENT

RJSC / YAMAGATA RNAV SID

RUBIS ONE DEPARTURE	Basic RNP1

Note GNSS required.



RUBIS ONE DEPARTURE

RWY01 : Climb on HDG015° at or above 800FT, direct to SC101, to SC102 at or above 7000FT,...
RWY19 : Climb on HDG195° at or above 1300FT, direct to SC903, to SC904, to SC905,
to SC906,...
... to ZUNDA at or above FL170, to RUBIS at or above FL200.

Note RWY01 : 5.0% climb gradient required up to 2000FT.
OBST ALT 3609FT located at 16.0NM 039° FM end of RWY01.
RWY19 : 4.0% climb gradient required up to 1300FT.
OBST ALT 919FT located at 3.2NM 181° FM end of RWY19.

CHANGE : New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

RJSC / YAMAGATA RNAV SID

RUBIS ONE DEPARTURE

RWY01

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	–	–	015 (006.6)	-8.2	–	–	+800	–	–	Basic RNP1
002	DF	SC101	–	–	-8.2	–	–	–	–	–	Basic RNP1
003	TF	SC102	–	105 (096.6)	-8.2	8.4	–	+7000	–	–	Basic RNP1
004	TF	ZUNDA	–	200 (192.2)	-8.2	31.2	–	+FL170	–	–	Basic RNP1
005	TF	RUBIS	–	169 (161.2)	-8.2	26.9	–	+FL200	–	–	Basic RNP1

RWY19

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	–	–	195 (186.6)	-8.2	–	–	+1300	–	–	Basic RNP1
002	DF	SC903	–	–	-8.2	–	–	–	–	–	Basic RNP1
003	TF	SC904	–	285 (276.6)	-8.2	9.4	–	–	–	–	Basic RNP1
004	TF	SC905	–	015 (006.4)	-8.2	10.5	–	–	–	–	Basic RNP1
005	TF	SC906	–	105 (096.5)	-8.2	10.6	–	–	–	–	Basic RNP1
006	TF	ZUNDA	–	179 (171.0)	-8.2	15.7	–	+FL170	–	–	Basic RNP1
007	TF	RUBIS	–	169 (161.2)	-8.2	26.9	–	+FL200	–	–	Basic RNP1

CHANGE : New PROC

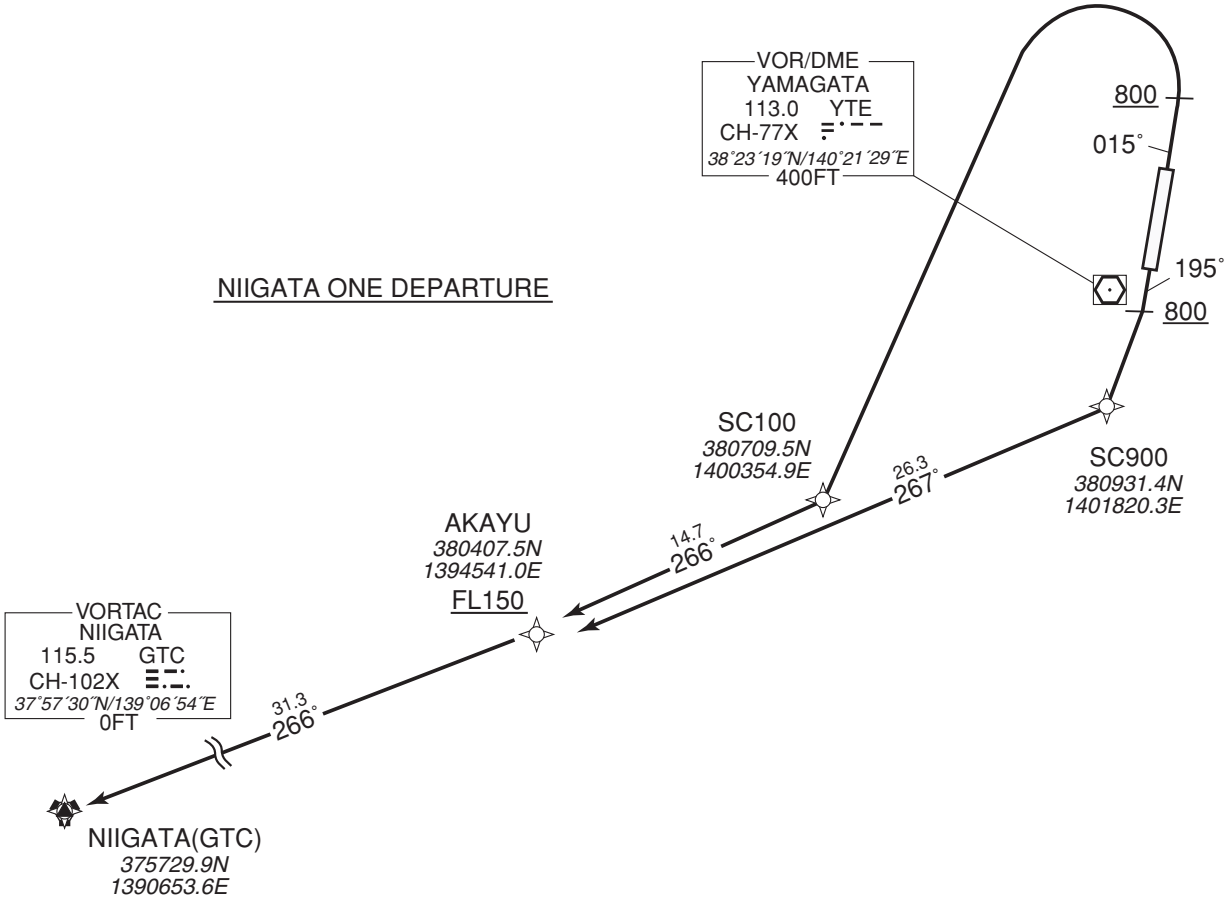
STANDARD DEPARTURE CHART-INSTRUMENT

RJSC / YAMAGATA RNAV SID

NIIGATA ONE DEPARTURE	Basic RNP1

Note GNSS required.

VAR 8°W (2017)



NIIGATA ONE DEPARTURE

RWY01 : Climb on HDG015° at or above 800FT, turn left direct to SC100,...
RWY19 : Climb on HDG195° at or above 800FT, direct to SC900,...
... to AKAYU at or above FL150, to GTC.

Note RWY01 : 5.5% climb gradient required up to 2500FT.
OBST ALT 2198FT located at 6.3NM 321° FM end of RWY01.
RWY19 : 4.3% climb gradient required up to 800FT.
OBST ALT 722FT located at 2.8NM 182° FM end of RWY19.

CHANGE : New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

RJSC / YAMAGATA RNAV SID

NIIGATA ONE DEPARTURE

RWY01

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	–	–	015 (006.6)	-8.2	–	–	+800	–	–	Basic RNP1
002	DF	SC100	–	–	-8.2	–	L	–	–	–	Basic RNP1
003	TF	AKAYU	–	266 (258.2)	-8.2	14.7	–	+FL150	–	–	Basic RNP1
004	TF	GTC	–	266 (258.0)	-8.2	31.3	–	–	–	–	Basic RNP1

RWY19

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	–	–	195 (186.6)	-8.2	–	–	+800	–	–	Basic RNP1
002	DF	SC900	–	–	-8.2	–	–	–	–	–	Basic RNP1
003	TF	AKAYU	–	267 (258.3)	-8.2	26.3	–	+FL150	–	–	Basic RNP1
004	TF	GTC	–	266 (258.0)	-8.2	31.3	–	–	–	–	Basic RNP1

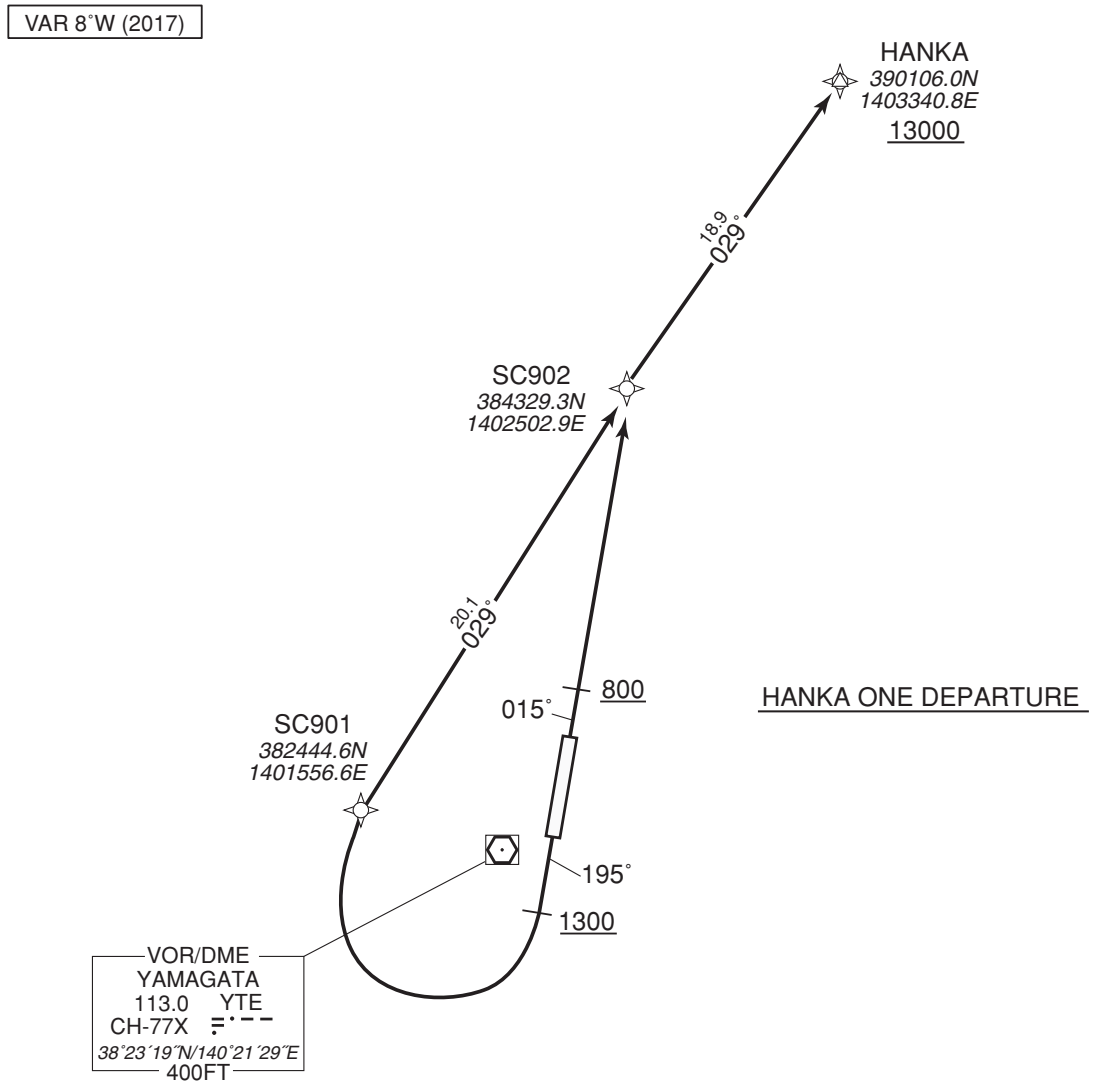
CHANGE : New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

RJSC / YAMAGATA RNAV SID

HANKA ONE DEPARTURE	Basic RNP1

Note GNSS required.



HANKA ONE DEPARTURE

RWY01 : Climb on HDG015° at or above 800FT, direct to SC902,...
RWY19 : Climb on HDG195° at or above 1300FT, turn right direct to SC901, to SC902,...
... to HANKA at or above 13000FT.

Note RWY01 : 5.0% climb gradient required up to 800FT.
OBST ALT 1542FT located at 6.5NM 026° FM end of RWY01.
RWY19 : 4.0% climb gradient required up to 1300FT.
OBST ALT 919FT located at 3.2NM 181° FM end of RWY19.
No turn before DER.

CHANGE : New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

RJSC / YAMAGATA RNAV SID

HANKA ONE DEPARTURE

RWY01

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	–	–	015 (006.6)	-8.2	–	–	+800	–	–	Basic RNP1
002	DF	SC902	–	–	-8.2	–	–	–	–	–	Basic RNP1
003	TF	HANKA	–	029 (020.8)	-8.2	18.9	–	+13000	–	–	Basic RNP1

RWY19

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	–	–	195 (186.6)	-8.2	–	–	+1300	–	–	Basic RNP1
002	DF	SC901	–	–	-8.2	–	R	–	–	–	Basic RNP1
003	TF	SC902	–	029 (020.7)	-8.2	20.1	–	–	–	–	Basic RNP1
004	TF	HANKA	–	029 (020.8)	-8.2	18.9	–	+13000	–	–	Basic RNP1

CHANGE : Editorial

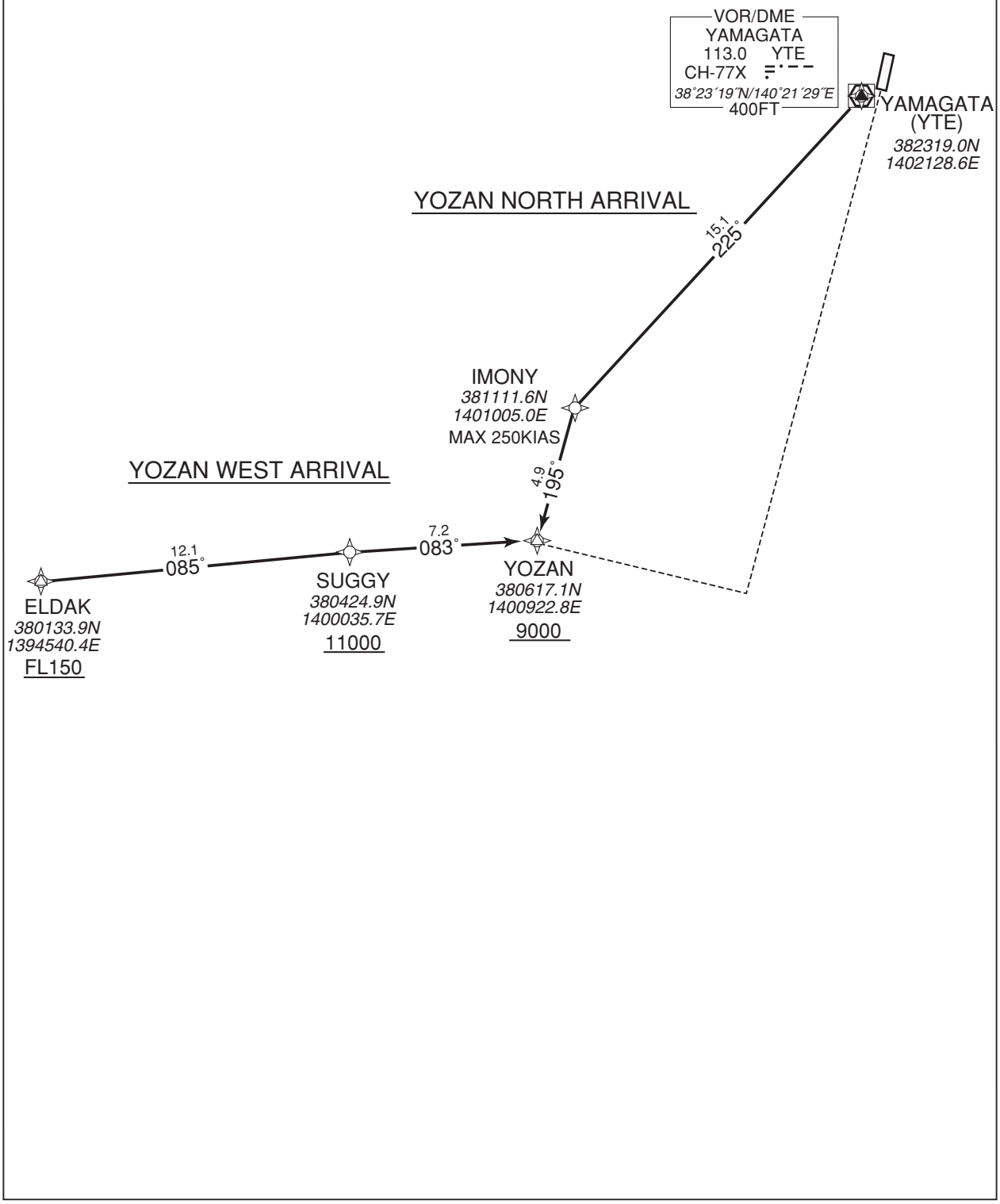
STANDARD ARRIVAL CHART - INSTRUMENT

RJSC / YAMAGATA — RNAV STAR RWY01

YOZAN WEST ARRIVAL / YOZAN NORTH ARRIVAL	Basic RNP1

Note GNSS required.

VAR 8°W (2017)



CHANGE : New PROC

STANDARD ARRIVAL CHART - INSTRUMENT

RJSC / YAMAGATA RNAV STAR RWY01

YOZAN WEST ARRIVAL

From ELDAK at or above FL150, to SUGGY at or above 11000FT, to YOZAN at or above 9000FT.

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	ELDAK	–	–	-8.2	–	–	+FL150	–	–	Basic RNP1
002	TF	SUGGY	–	085 (076.3)	-8.2	12.1	–	+11000	–	–	Basic RNP1
003	TF	YOZAN	–	083 (074.8)	-8.2	7.2	–	+9000	–	–	Basic RNP1

YOZAN NORTH ARRIVAL

From YTE, to IMONY, to YOZAN at or above 9000FT.

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	YTE	–	–	-8.2	–	–	–	–	–	Basic RNP1
002	TF	IMONY	–	255 (216.5)	-8.2	15.1	–	–	-250	–	Basic RNP1
003	TF	YOZAN	–	195 (186.4)	-8.2	4.9	–	+9000	–	–	Basic RNP1

CHANGE : New PROC

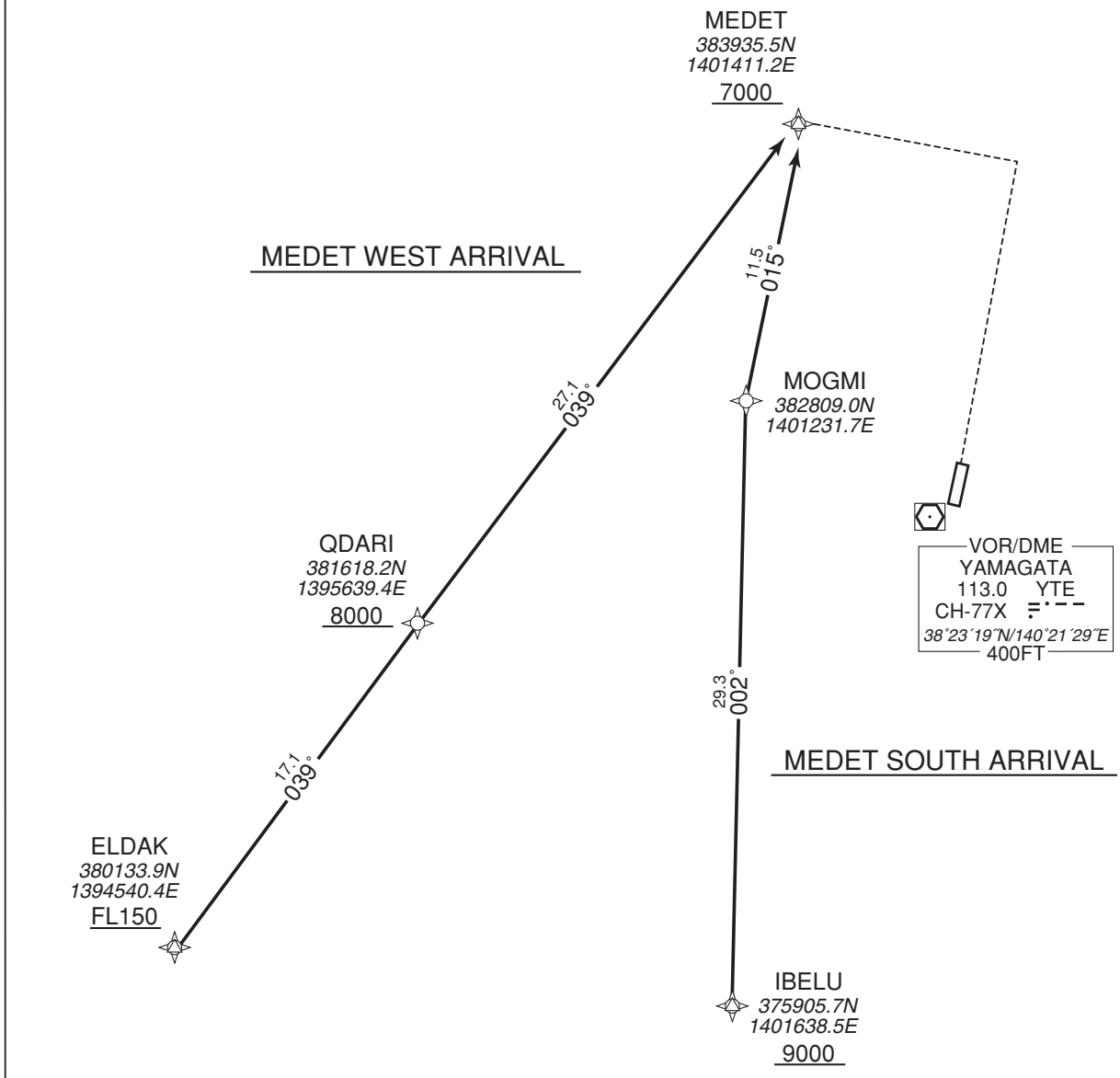
STANDARD ARRIVAL CHART - INSTRUMENT

RJSC / YAMAGATA — RNAV STAR RWY19

MEDET WEST ARRIVAL / MEDET SOUTH ARRIVAL	Basic RNP1

Note GNSS required.

VAR 8°W (2017)



CHANGE : New PROC

STANDARD ARRIVAL CHART - INSTRUMENT

RJSC / YAMAGATA RNAV STAR RWY19

MEDET WEST ARRIVAL

From ELDAK at or above FL150, to QDARI at or above 8000FT, to MEDET at or above 7000FT.

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	ELDAK	–	–	-8.2	–	–	+FL150	–	–	Basic RNP1
002	TF	QDARI	–	039 (030.3)	-8.2	17.1	–	+8000	–	–	Basic RNP1
003	TF	MEDET	–	039 (030.4)	-8.2	27.1	–	+7000	–	–	Basic RNP1

MEDET SOUTH ARRIVAL

From IBELU at or above 9000FT, to MOGMI, to MEDET at or above 7000FT.

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	IBELU	–	–	-8.2	–	–	+9000	–	–	Basic RNP1
002	TF	MOGMI	–	002 (353.7)	-8.2	29.3	–	–	–	–	Basic RNP1
003	TF	MEDET	–	015 (006.5)	-8.2	11.5	–	+7000	–	–	Basic RNP1

CHANGE : New PROC

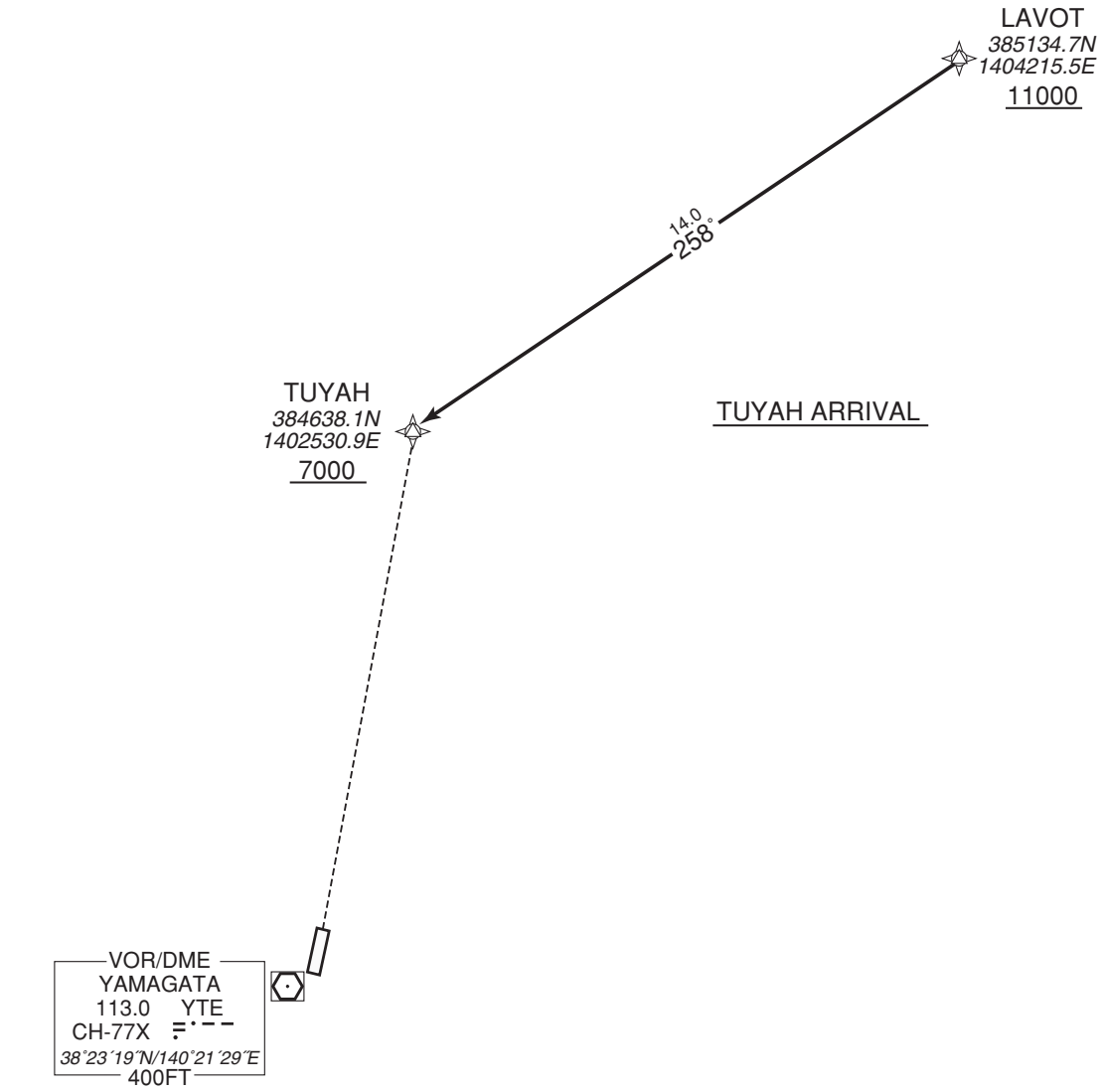
STANDARD ARRIVAL CHART - INSTRUMENT

RJSC / YAMAGATA — RNAV STAR RWY19

TUYAH ARRIVAL	Basic RNP1

Note GNSS required.

VAR 8˚W (2017)



TUYAH ARRIVAL

From LAVOT at or above 11000FT, to TUYAH at or above 7000FT.

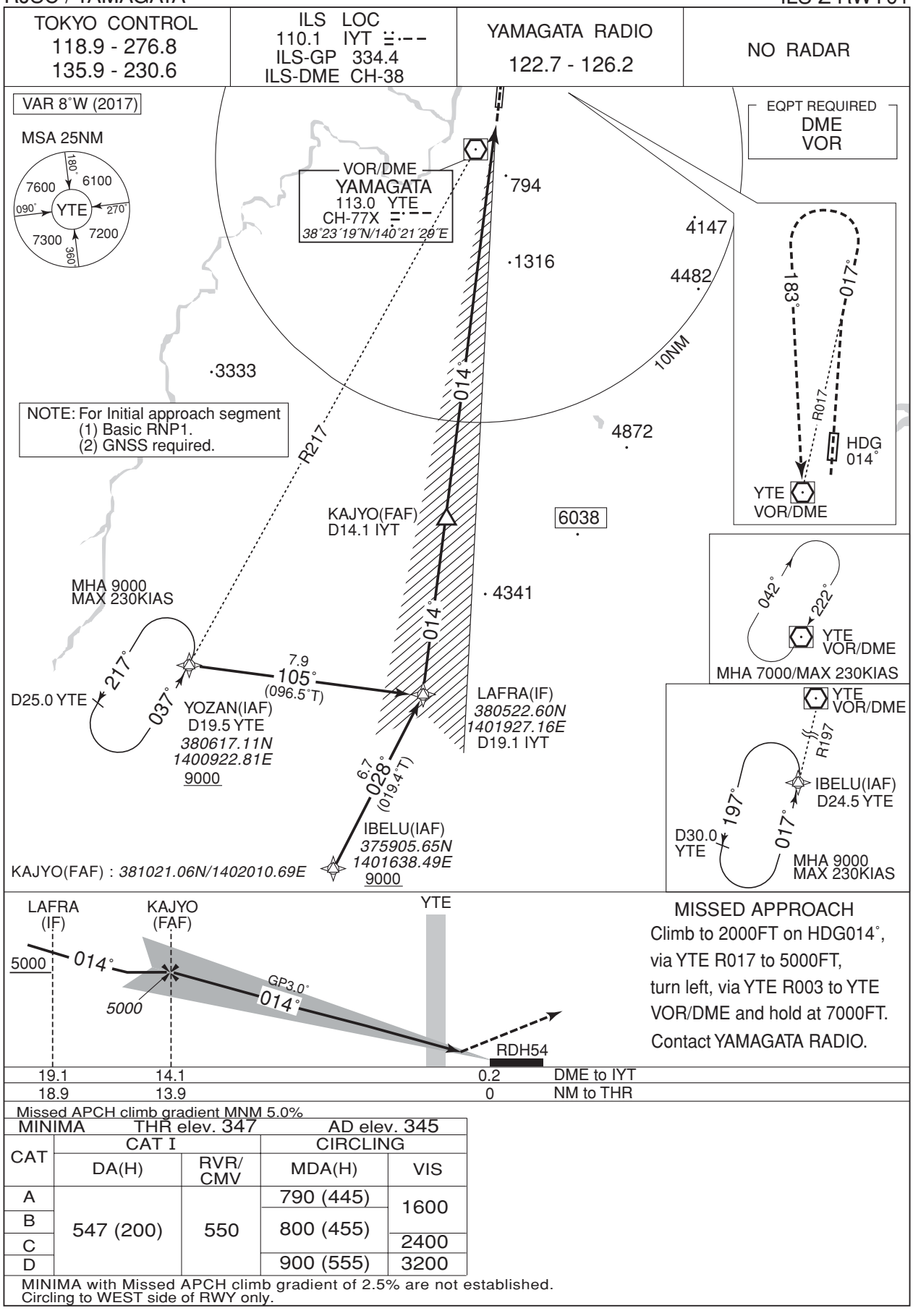
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	LAVOT	–	–	-8.2	–	–	+11000	–	–	Basic RNP1
002	TF	TUYAH	–	258 (249.3)	-8.2	14.0	–	+7000	–	–	Basic RNP1

CHANGE : New PROC

INSTRUMENT APPROACH CHART

RJSC / YAMAGATA

ILS Z RWY01



MISSED APPROACH
Climb to 2000FT on HDG014°,
via YTE R017 to 5000FT,
turn left, via YTE R003 to YTE
VOR/DME and hold at 7000FT.
Contact YAMAGATA RADIO.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 347		AD elev. 345	
CAT	CAT I		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	547 (200)	550	790 (445)	1600
B			800 (455)	
C				2400
D			900 (555)	3200

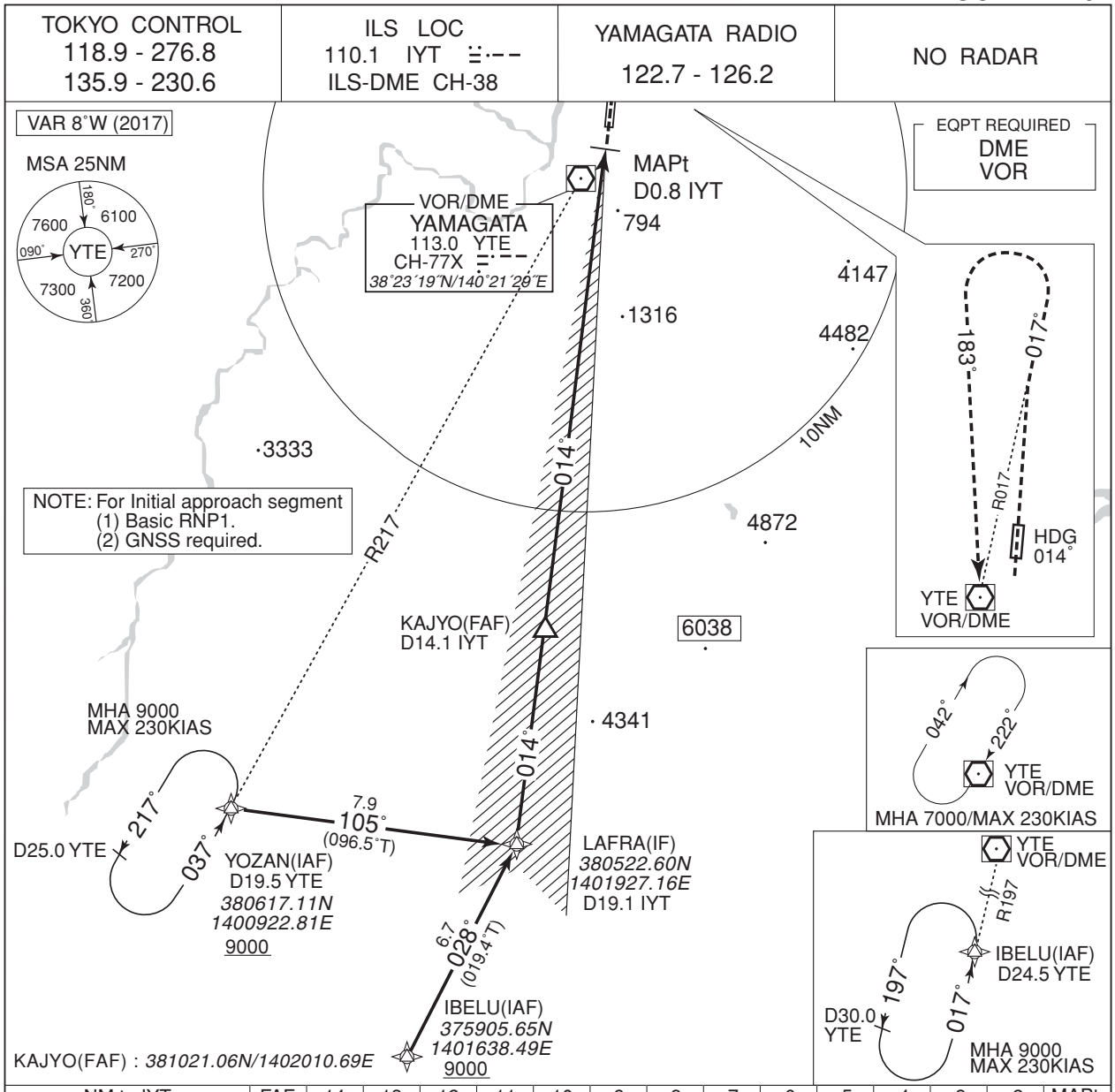
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

CHANGE : New PROC

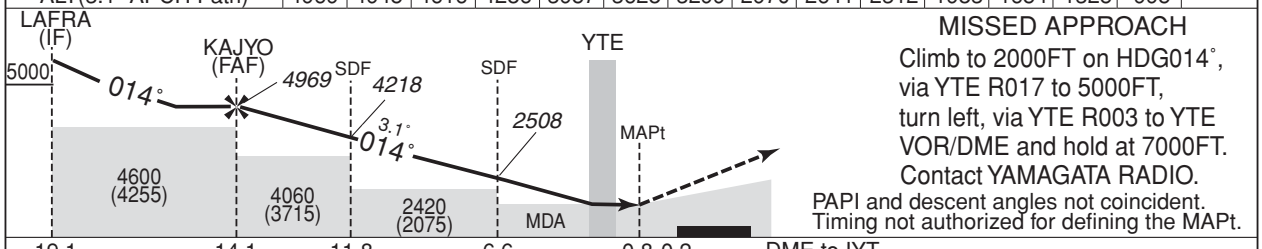
INSTRUMENT APPROACH CHART

RJSC / YAMAGATA

LOC Z RWY01



NM to IYT	FAF	14	13	12	11	10	9	8	7	6	5	4	3	2	MAPt
ALT(3.1° APCH Path)	4969	4945	4616	4286	3957	3628	3299	2970	2641	2312	1983	1654	1325	995	–



MISSED APPROACH
Climb to 2000FT on HDG014°,
via YTE R017 to 5000FT,
turn left, via YTE R003 to YTE
VOR/DME and hold at 7000FT.
Contact YAMAGATA RADIO.

PAPI and descent angles not coincident.
Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 347 AD elev. 345

CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	870 (525)	1000	870 (525)	1600
B		1200		2400
C		1600	900 (555)	3200
D				

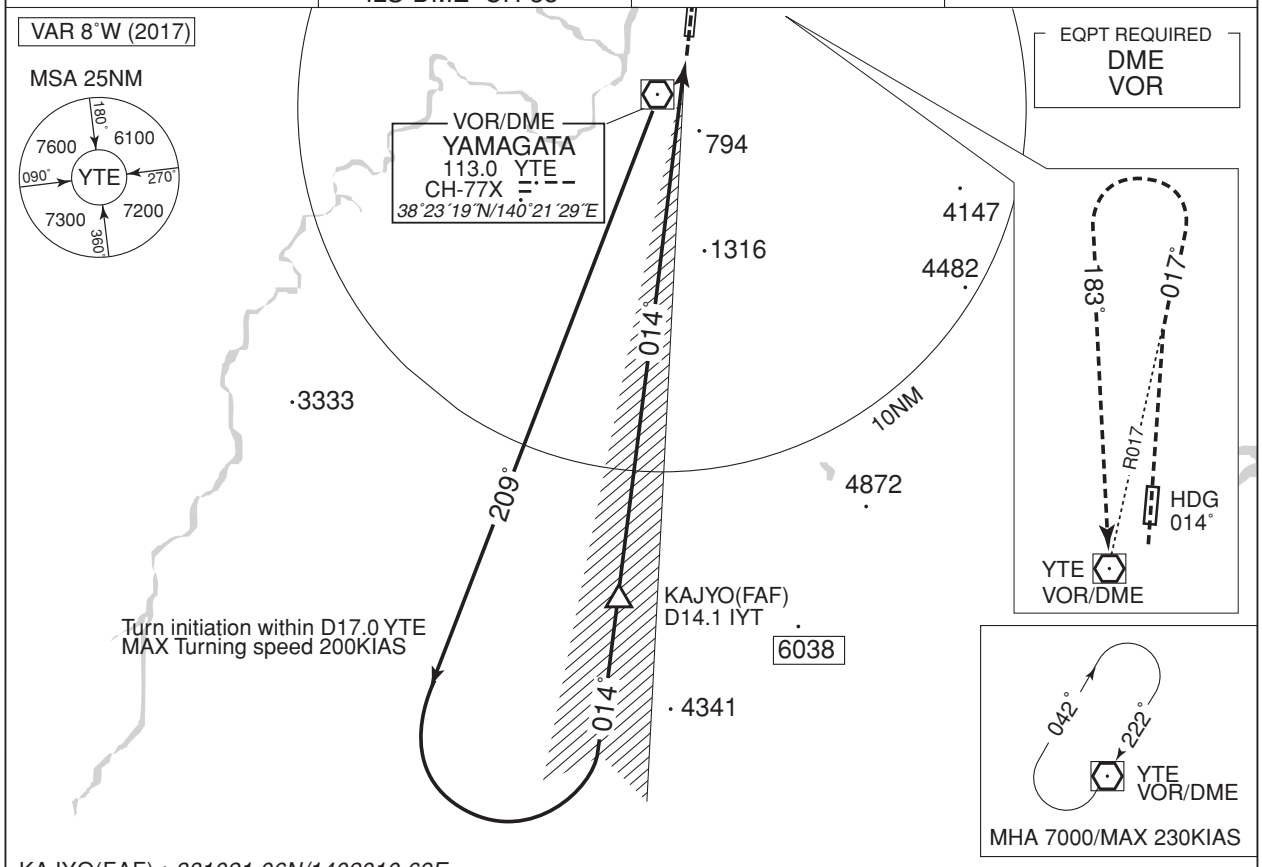
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

CHANGE : New PROC

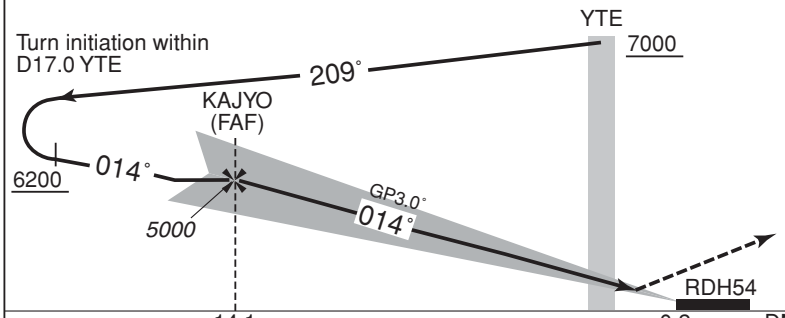
INSTRUMENT APPROACH CHART

RJSC / YAMAGATA — ILS Y RWY01

TOKYO CONTROL	ILS LOC	YAMAGATA RADIO	NO RADAR
118.9 - 276.8 135.9 - 230.6	110.1 IYT ILS-GP 334.4 ILS-DME CH-38	122.7 - 126.2	



KAJYO(FAF) : *381021.06N/1402010.69E*



MISSED APPROACH
Climb to 2000FT on HDG014°,
via YTE R017 to 5000FT,
turn left, via YTE R003 to YTE
VOR/DME and hold at 7000FT.

Contact YAMAGATA RADIO.

14.1	0.2	DME to IYT
13.9	0	NM to THR

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 347 AD elev. 345

CAT	CAT I		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	VIS
A	547 (200)	550	790 (445)	1600
B			800 (455)	
C				2400
D			900 (555)	3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

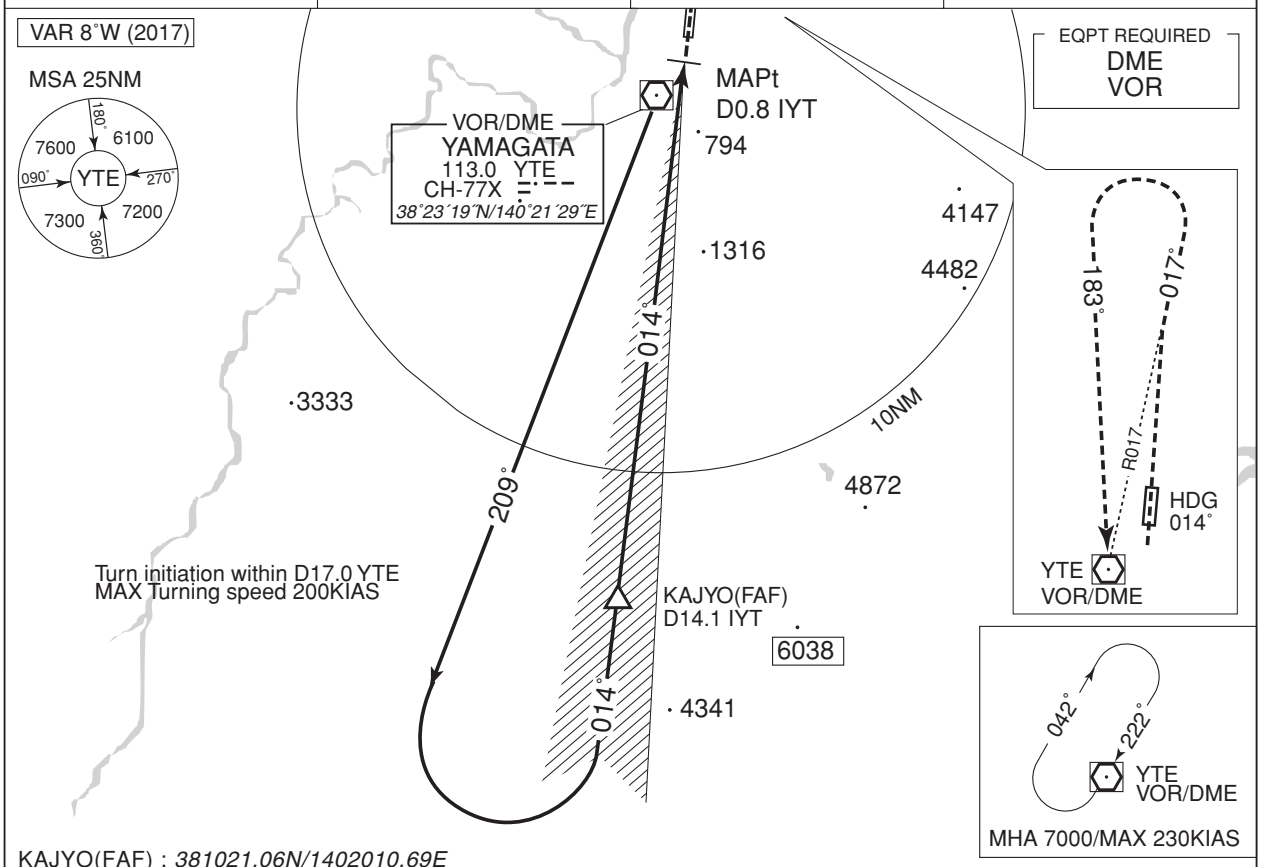
CHANGE : New PROC

INSTRUMENT APPROACH CHART

RJSC / YAMAGATA

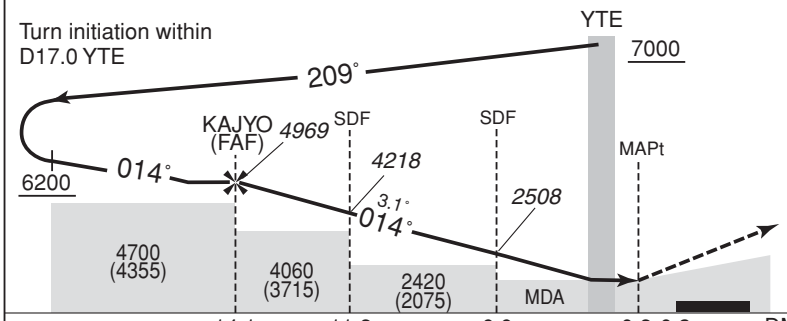
LOC Y RWY01

TOKYO CONTROL	ILS LOC	YAMAGATA RADIO	NO RADAR
118.9 - 276.8 135.9 - 230.6	110.1 IYT ILS-DME CH-38	122.7 - 126.2	



KAJYO(FAF) : *381021.06N/1402010.69E*

NM to IYT	FAF	14	13	12	11	10	9	8	7	6	5	4	3	2	MAPt
ALT(3.1° APCH Path)	4969	4945	4616	4286	3957	3628	3299	2970	2641	2312	1983	1654	1325	995	–



MISSED APPROACH
Climb to 2000FT on HDG014°,
via YTE R017 to 5000FT,
turn left, via YTE R003 to YTE
VOR/DME and hold at 7000FT.
Contact YAMAGATA RADIO.

PAPI and descent angles not coincident.
Timing not authorized for defining the MAPt.

14.1	11.8	6.6	0.8	0.2		DME to IYT
13.9	11.6	6.4	0.6	0		NM to THR

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 347 AD elev. 345

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	870 (525)	1000	870 (525)	1600
B		1200		
C				2400
D		1600	900 (555)	3200

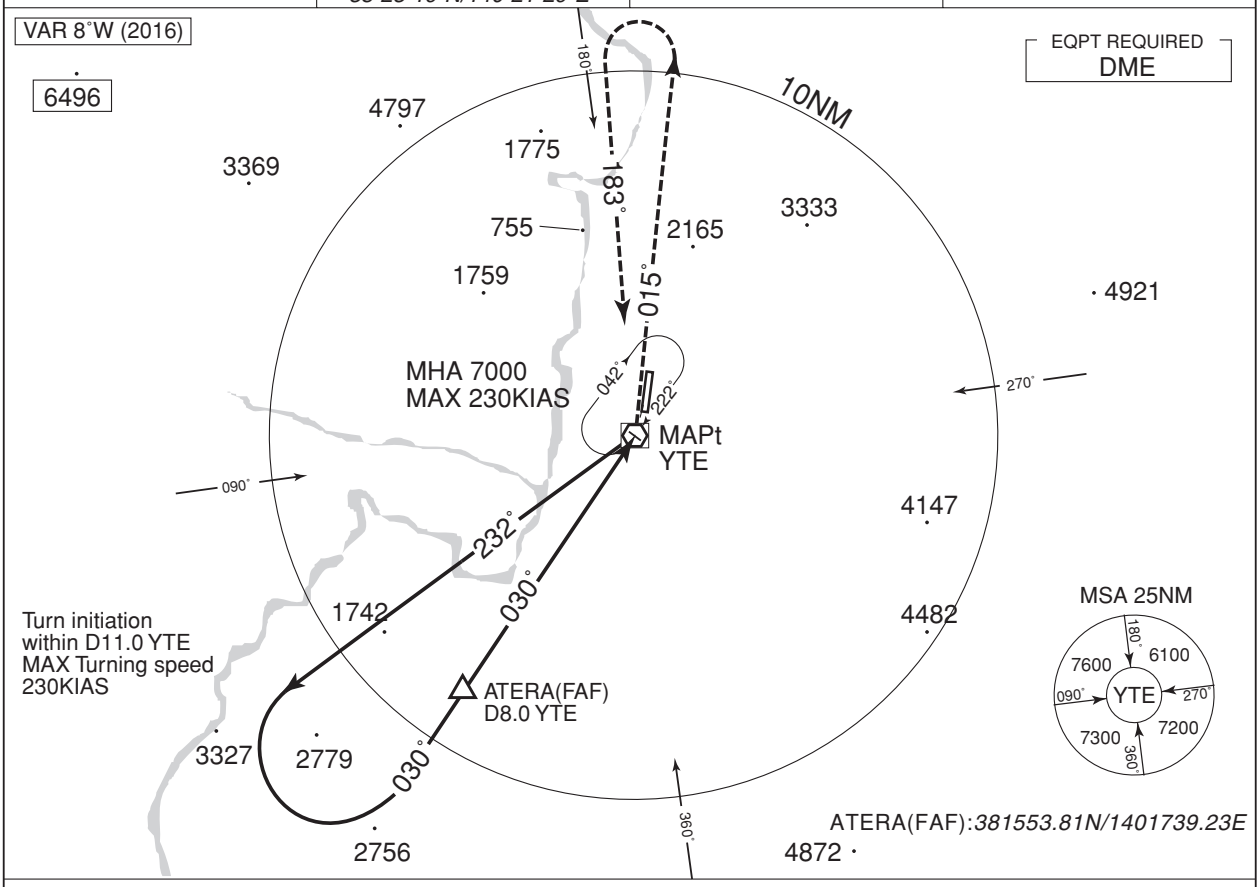
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

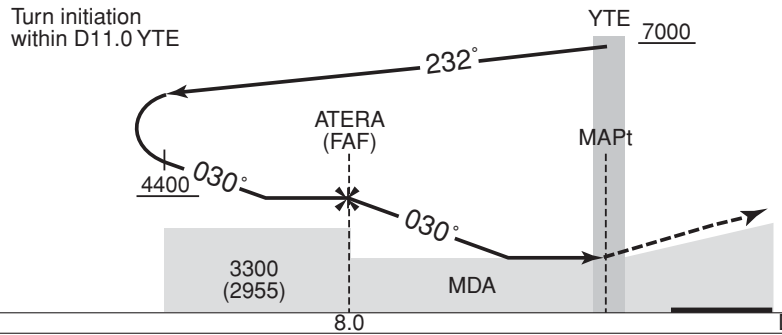
CHANGE : New PROC

INSTRUMENT APPROACH CHART

RJSC / YAMAGATA VOR A

TOKYO CONTROL	YAMAGATA VOR/DME	YAMAGATA RADIO	NO RADAR
118.9 - 276.8 135.9 - 230.6	113.0 YTE CH-77X *38°23′19″N/140°21′29″E*	122.7 - 126.2	





MISSED APPROACH

Climb to 5000FT via YTE R015,
turn left, via YTE R003 to
YTE VOR/DME and hold
at 7000FT.
Contact YAMAGATA RADIO.

Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 5.0%

MINIMA		AD elev. 345
CAT	CIRCLING	
	MDA(H)	VIS
A	850 (505)	1600
B		
C		2400
D	900 (555)	3200

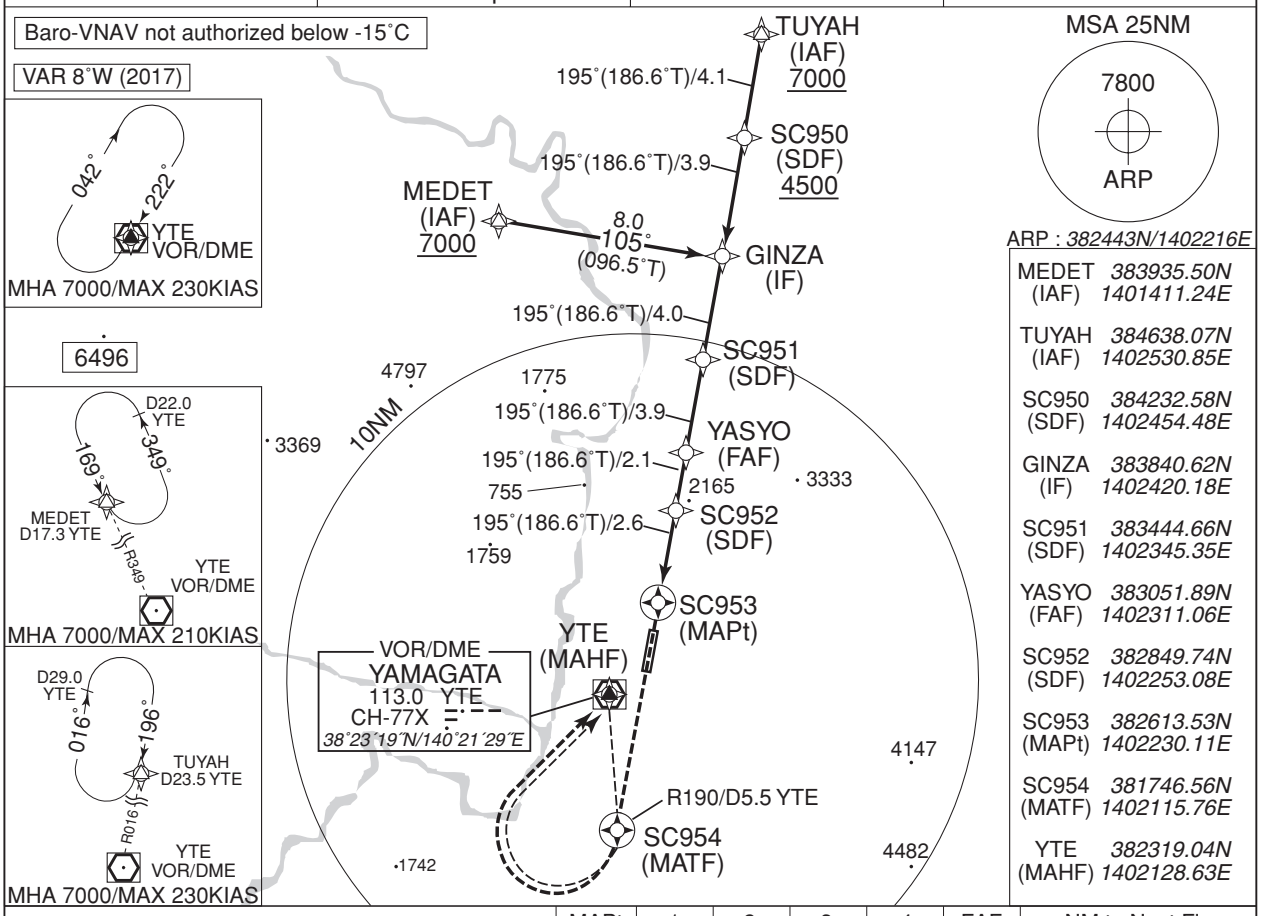
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

CHANGE : MHA

INSTRUMENT APPROACH CHART

RJSC / YAMAGATA — RNAV(GNSS) RWY19

TOKYO CONTROL		YAMAGATA RADIO	
118.9 - 276.8 135.9 - 230.6	1. DME/DME RNP0.3 not authorized. 2. RNP0.3 required. 3. GNSS required.	122.7 - 126.2	NO RADAR

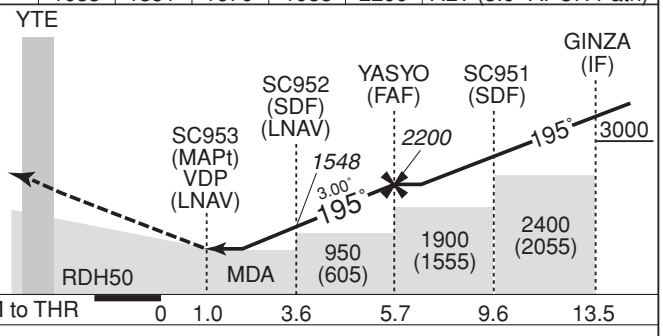


MAPt	1	2	3	4	FAF	NM to Next Fix
–	1033	1351	1670	1988	2200	ALT (3.0˚ APCH Path)

MISSED APPROACH

Direct to SC954, turn right direct to YTE and hold at 7000FT.
Contact YAMAGATA RADIO.

(For using VOR/DME)
Climb via YTE R190 to YTE 5.5DME, turn right, direct to YTE VOR/DME and hold at 7000FT.
Contact YAMAGATA RADIO.



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 353 AD elev. 345

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	720 (367)	1200	720 (375)	1200	790 (445)	1600
B		1300		1300	800 (455)	
C		1400		1400		2400
D		1600		1600	900 (555)	3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

CHANGE : New PROC

RJSC / YAMAGATA

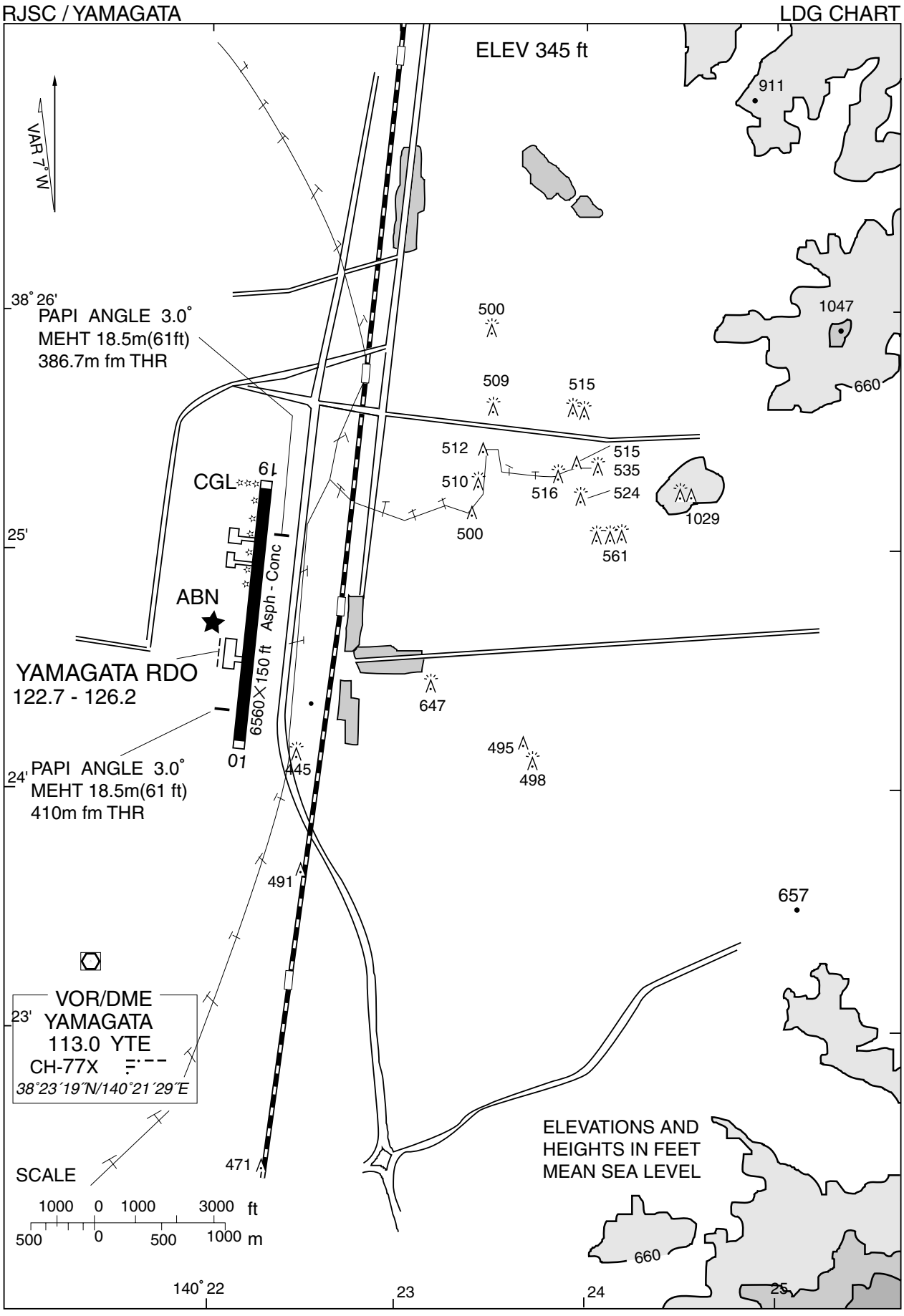
Visual REP

CHANGE : Obanazawa deleted, Funagata, Tokurako added

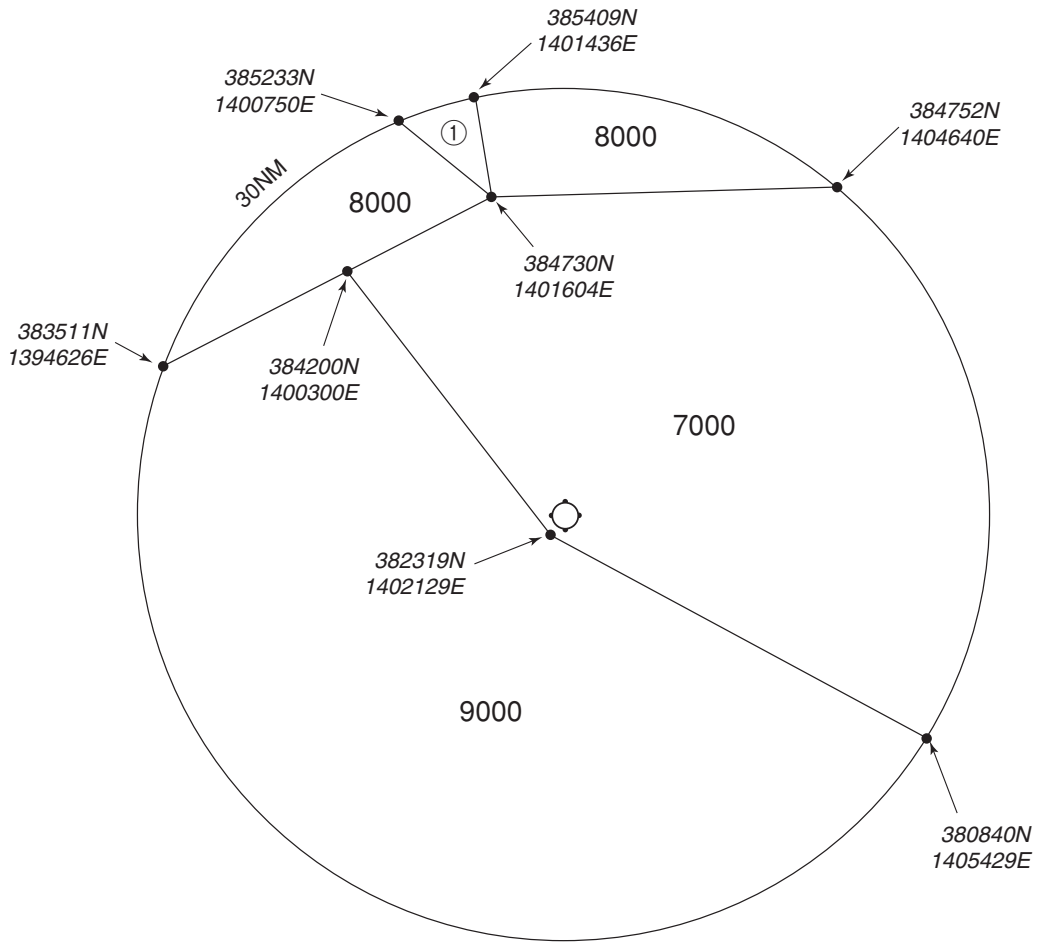
RJSC / YAMAGATA Visual REP

Call sign	BRG / DIST from ARP	Remarks
舟　形 Funagata	351˚T/17.7NM	舟形インターチェンジ Interchange
徳良湖 Tokurako	017˚T/11.5NM	徳良湖 Lake
楯　岡 Tateoka	010˚T/ 4.0NM	村山駅(旧楯岡駅) JR station
碁　点 Goten	344˚T/ 4.5NM	村山市民体育館 Gymnasium
谷　地 Yachi	282˚T/ 3.0NM	谷地高校 School
関山峠 Sekiyama Toge	100˚T/ 9.5NM	関山トンネル Tunnel
西　川 Nishikawa	274˚T/ 9.8NM	西川インターチェンジ Interchange
寒河江 Sagae	242˚T/ 5.1NM	寒河江駅 JR station
アテラ Atera	203˚T/ 9.3NM	山形中央インターチェンジ Interchange
山形ステーション Yamagata Station	192˚T/10.0NM	山形駅 JR station
上　山 Kaminoyama	196˚T/16.2NM	上山温泉駅 JR station

CHANGE : Obanazawa deleted, Funagata, Tokurako added


RJSC / YAMAGATA
LDG CHART
ELEV 345 ft
VAR 7°W
38° 26'
PAPI ANGLE 3.0°
MEHT 18.5m(61ft)
386.7m fm THR
CGL
19
01
ABN
YAMAGATA RDO
122.7 - 126.2
6560X150 ft Asph - Conc
PAPI ANGLE 3.0°
MEHT 18.5m(61 ft)
410m fm THR
VOR/DME
YAMAGATA
113.0 YTE
CH-77X
38°23´19˝N/140°21´29˝E
SCALE
1000 0 1000 3000 ft
500 0 500 1000 m
ELEVATIONS AND
HEIGHTS IN FEET
MEAN SEA LEVEL
911
1047
660
500
509
515
512
515
535
510
516
524
1029
500
561
647
495
498
445
491
657
471
660
25'
24'
23'
140° 22
23
24
25

RJSC / YAMAGATA Minimum Vectoring Altitude CHART



① 10000

CENTER : *382443N/1402216E* (ARP)