ICAO - VISUAL APPROACH CHART

SCALE 1:250.000

0 5 NM

0 5 Km

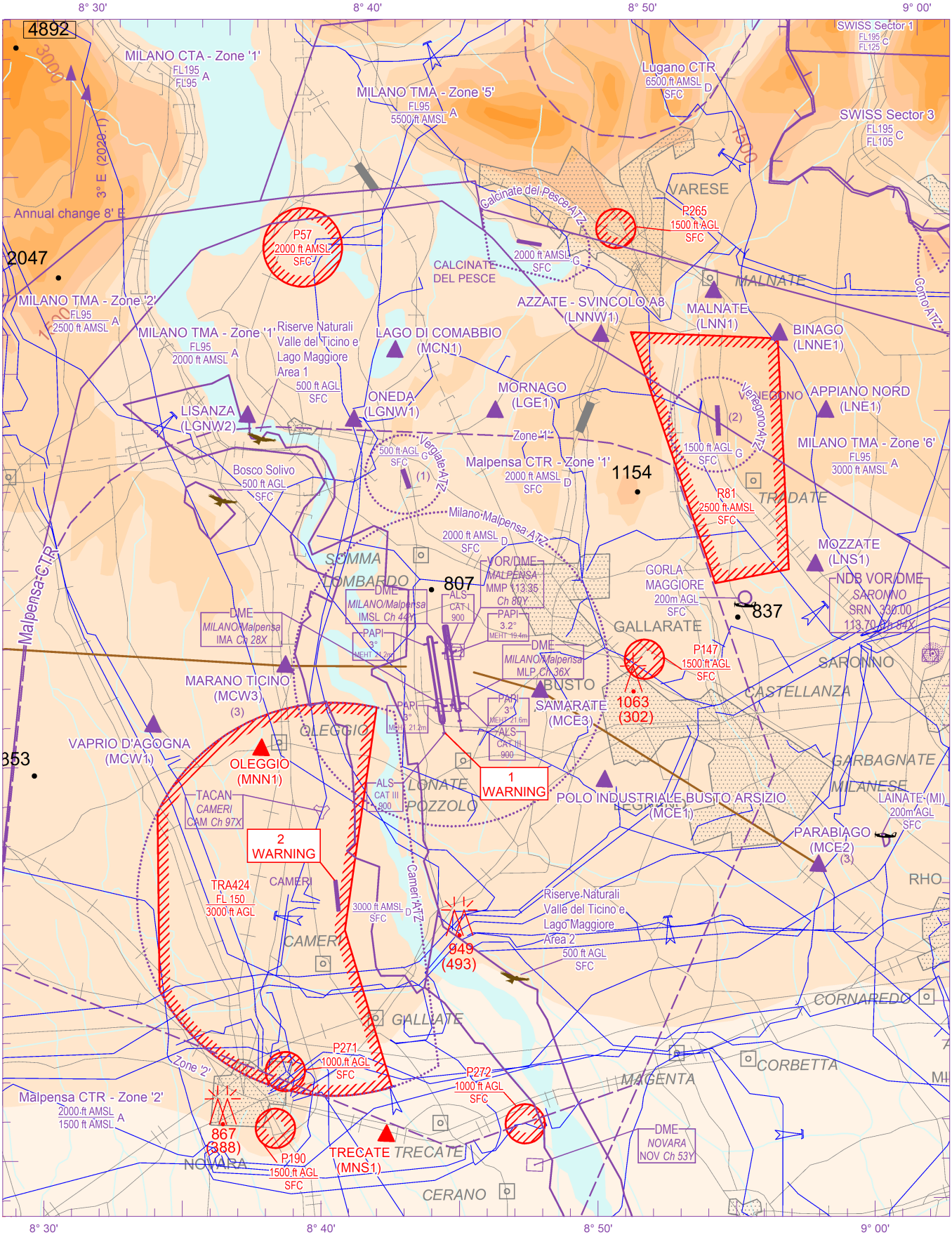
FIS	Milano Information	124.925
APP	Milano Radar	CH 125.630 (CH 132.705)
TWR	Malpensa TWR	128.350
TWR	Malpensa TWR	(123.600)
ATIS	Malpensa Arrival Information	120.025
ATIS	Malpensa Departure Information	121.625

AD ELEV 768

LIMC

MILANO/MALPENSA

CHANGE: NEW VISUAL REPORTING POINTS FOR THE APPROACH TO VENEGONO ATZ AND UPDATED CHART



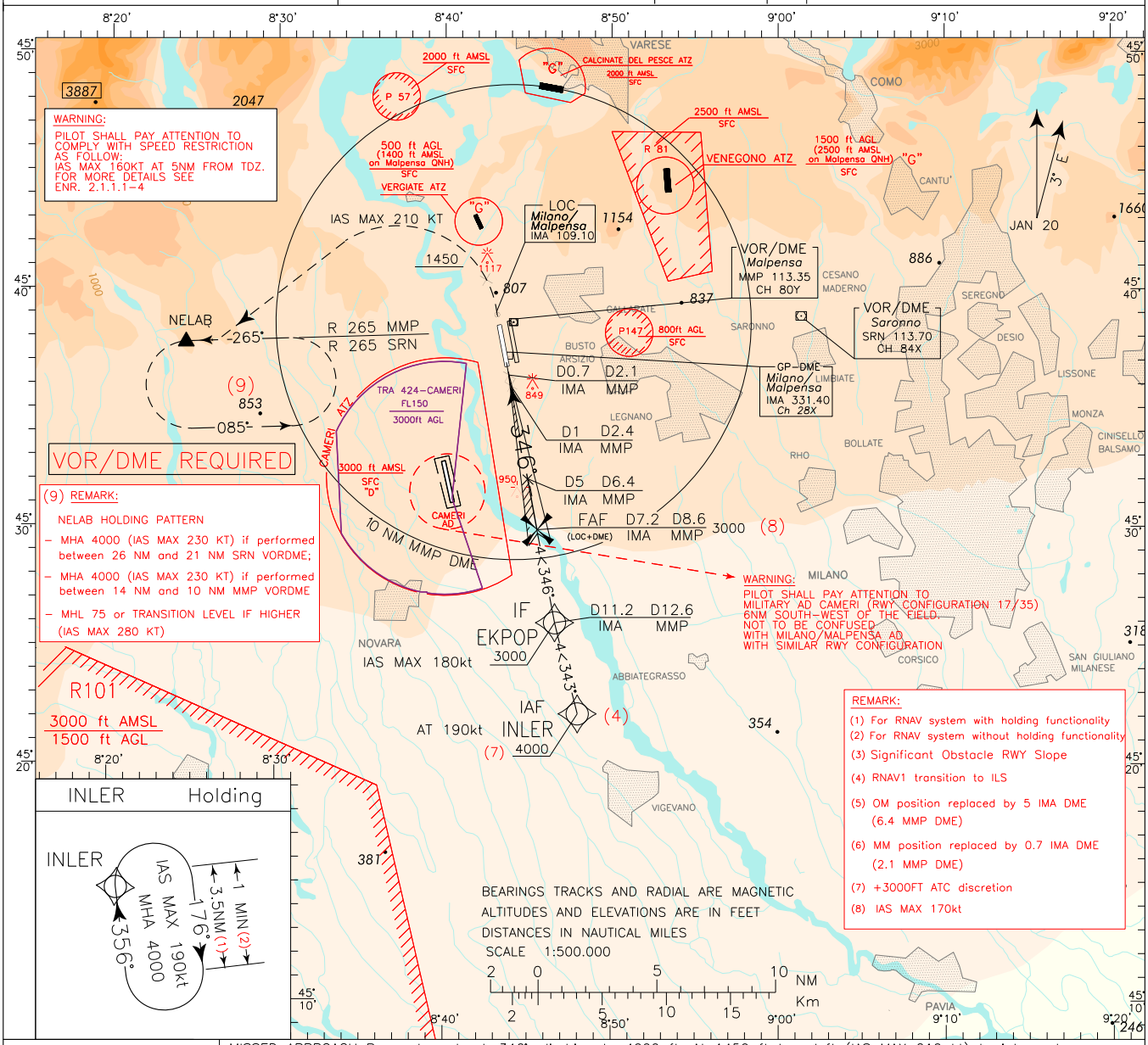
AIRSPACE CLASSIFICATION See AIP ENR 1.4	REMARK	WARNING
TRANSITION ALT 6000 FT	(1) Vergiate ATZ upper vertical limit: 1400 ft AMSL on Malpensa QNH (2) Venegono ATZ upper vertical limit: 2500 ft AMSL on Malpensa QNH (3) Entry points MARANO TICINO (MCW3) and PARABIAGO (MCE2) night VFR allowed for helicopters only	① Aircraft taxiing indipendently on TWY H underneath short final RWY 35L ② Military AD Cameri with RWY configuration 17/35. Not to be confused with Milano/Malpensa AD with similar RWY configuration
ELEV AND ALT IN FT IF NOT OTHERWISE INDICATED		

DOC 8168 ED 6 2014 AMDT 8
CHANGE: MAGNETIC VARIATION UPDATED — MSA MODIFIED

WARNINGS:
- Some users on ILS APCH reported false LOC captures. Pilot attention is drawn to pay max caution. See AIP ENR 1.3
- Aircraft taxiing indipendently on TWY H underneath short final RWY 35L.

APP *Milano Radar*	CH 125.630 (CH 132.705)	AD ELEV 768
TWR *Malpensa TWR*	128.350	LIMC
ATIS *Malpensa Arrival Information*	120.025	

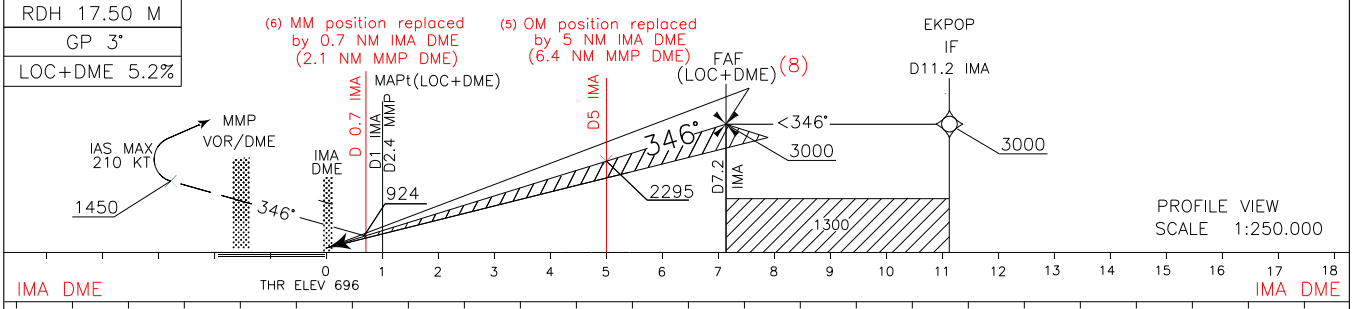
MILANO/MALPENSA
ILS or LOC-Z RWY 35L



TRANSITION ALT 6000

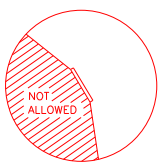
MISSED APPROACH: Proceed on track 346° climbing to 4000 ft. At 1450 ft turn left (IAS MAX 210 kt) to intercept and follow RDL 265 SRN/MMP VOR direct to NELAB holding pattern.
REMARK: Missed approach obstacle clearance is provided by 2.5% gradient; 5% gradient until 2000 ft is required to overfly Vergiate ATZ. Pilots unable to comply with this gradient are advised that will fly within airspace classified "G".

RDH 17.50 M
GP 3°
LOC+DME 5.2%



OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	CAT.I (3)	858 (162)	873 (177)	888 (192)	898 (202)
	CAT.II (1)	762 (66)	777 (81)	787 (91)	807 (111)
	LOC+DME	1140 (444)			
CIRCLING		1450 (682)		1650 (882)	1710 (942)

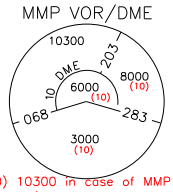
CIRCLING SECTORS



FT PER MIN	GS	FAP-D5 2.23 NM	D5-D0.7 4.46 NM
850	160	0 : 50	1 : 40
740	140	0 : 57	1 : 54
635	120	1 : 06	2 : 14
530	100	1 : 19	2 : 40
425	80	1 : 39	3 : 20

DME IMA	ALT (HGT)
1	1074 (378)
2	1392 (696)
3	1711 (1015)
4	2029 (1333)
5	2348 (1652)
6	2666 (1970)
7	2983 (2287)
8	
9	
10	

MNM SECT ALT 25NM FROM ARP or MMP VOR/DME



(10) 10300 in case of MMP VOR/DME unavailability

TABULAR DESCRIPTION

ILS Z RWY35L – RNAV TRANSITION TO ILS APPROACH

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	VPA/ TCH	Navigation Specification
010	IF	INLER	-	-	-	-	-	+4000 (1)	AT 190	-	RNAV 1
020	TF	EKPOP	-	343 (345.9)	-	4.0	-	+3000	-180	-	RNAV 1

(1) +3000ft ATC discretion

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	INLER	356 (359.0)	3.5	1.0/ -	R	+4000	-	-190	3	RNAV1

(1) RNAV system with holding functionality
(2) RNAV system without holding functionality

CHANGE: NOV NDB DISMISSED; NOV HOLDING WITHDRAWN; TRACK IF-FAF UPDATED; REMARKs UPDATED; DOC 8168 ED 6 2014 AMDT 8

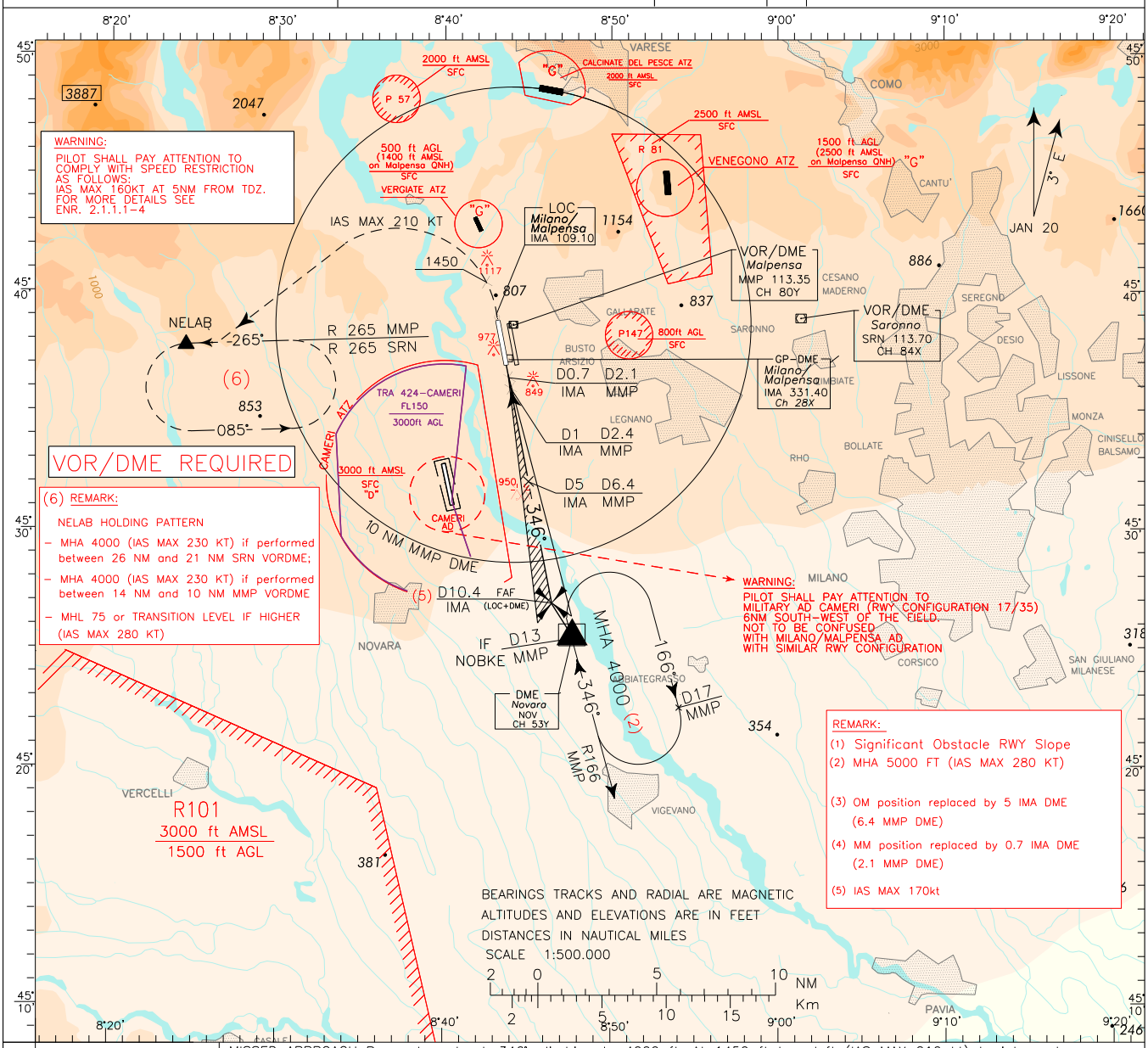
WARNINGS:
- Some users on ILS APCH reported false LOC captures. Pilot attention is drawn to pay max caution. See AIP ENR 1.3
- Aircraft taxiing indipendently on TWY H underneath short final RWY 35L.

APP *Milano Radar*	CH 125.630 (CH 132.705)	AD ELEV 768
TWR *Malpensa TWR*	128.350	
ATIS *Malpensa Arrival Information*	120.025	

LIMC

MILANO/ MALPENSA

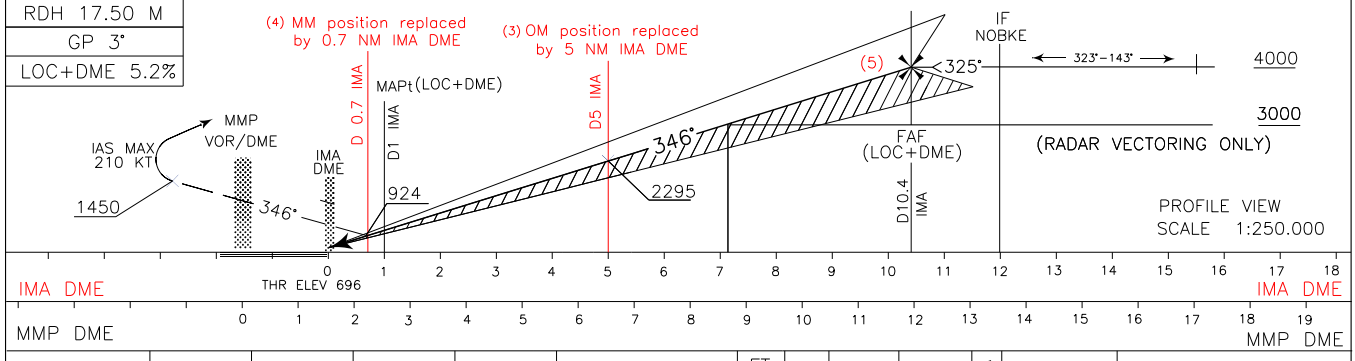
ILS or LOC-Y RWY 35L



TRANSITION ALT 6000

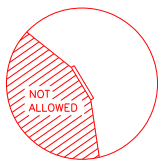
MISSED APPROACH: Proceed on track 346° climbing to 4000 ft. At 1450 ft turn left (IAS MAX 210 kt) to intercept and follow RDL 265 SRN/MMP VOR direct to NELAB holding pattern.
REMARK: Missed approach obstacle clearance is provided by 2.5% gradient; 5% gradient until 2000 ft is required to overfly Vergiate ATZ. Pilots unable to comply with this gradient are advised that will fly within airspace classified "G".

RDH 17.50 M
GP 3°
LOC+DME 5.2%



OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	CAT.I (1)	858 (162)	873 (177)	888 (192)	898 (202)
	CAT.II (1)	762 (66)	777 (81)	787 (91)	807 (111)
	LOC+DME	1140 (444)			
CIRCLING		1450 (682)		1650 (882)	1710 (942)

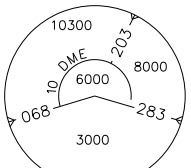
CIRCLING SECTORS



FT PER MIN	GS	FAP-D5 5.19 NM	D5-D0.7 4.46 NM
850	160	1 : 56	1 : 40
740	140	2 : 13	1 : 54
635	120	2 : 35	2 : 14
530	100	3 : 06	2 : 40
425	80	3 : 53	3 : 20

DME IMA	ALT (HGT)
1	1074 (378)
2	1392 (696)
3	1711 (1015)
4	2029 (1333)
5	2348 (1652)
6	2666 (1970)
7	2983 (2287)
8	3303 (2607)
9	3621 (2925)
10	

MNM SECT ALT MMP VOR/DME



DOC 8168 ED 6 2014 AMDT 8

CHANGE: MAGNETIC VARIATION UPDATED

- Aircraft taxiing indipendently on TWY H underneath short final RWY 35L.

EGNOS
CH 65551
E35E

APP *Milano Radar* CH 125.630 (CH 132.705)
TWR *Malpensa TWR* 128.350
ATIS *Malpensa Arrival Information* 120.025

AD ELEV 768

LIMC

MILANO/ MALPENSA
RNP RWY 35L

RNP APCH

WARNING:
PILOT SHALL PAY ATTENTION TO COMPLY WITH SPEED RESTRICTION AS FOLLOWS:
IAS MAX 160KT AT 5NM FROM TDZ.
FOR MORE DETAILS SEE ENR. 2.1.1.1-4

VOR/DME *Malpensa* MMP 113.35 CH 80Y

DME *Milano/ Malpensa* IMA 109.10 Ch 28X

D1.6 MMP MC706 — IAS MAX 200 KT — 1520 — 807

D12 MMP MC707 — R 253 MMP — 073° — 253° — (3)

D16 MMP

D1.6 MAPt THR 35L MMP (LNAV only) — 346°

FAF MC701 — D7.1 THR D8.6 MMP 3000 (6)

IF EKPOP 3000 — D11.1 THR D12.6 MMP — IAS MAX 180kt

IAF INLER AT 190kt 4000 (5)

TRA 424-CAMERI FL150 3000ft AGL

CAMERI ATZ — 3000 ft AMSL SFC — 10 NM MMP DME

CAMERI AD

2000 ft AMSL SFC — "G" — CALCINATE DEL PESCE ATZ 2000 ft AMSL SFC

500 ft AGL (1400 ft AMSL on Malpensa QNH) SFC — VERGIATE ATZ

2500 ft AMSL SFC — R 81 — VENEGONO ATZ — 1500 ft AGL (2500 ft AMSL on Malpensa QNH) SFC

P 57 — P147 800ft AGL SFC

R101 3000 ft AMSL 1500 ft AGL

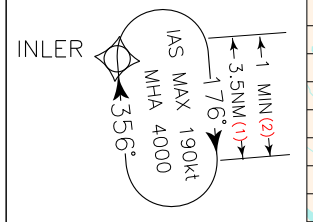
WARNING: MILANO
PILOT SHALL PAY ATTENTION TO MILITARY AD CAMERI (RWY CONFIGURATION 17/35) 6NM SOUTH-WEST OF THE FIELD. NOT TO BE CONFUSED WITH MILANO/MALPENSA AD WITH SIMILAR RWY CONFIGURATION

REMARK:
(1) For RNAV system with holding functionality
(2) For RNAV system without holding functionality
(3) M.A. HOLDING PATTERN
- MHA 4000 (IAS MAX 200 KT)
- MHL 75 or TRANSITION LEVEL IF HIGHER (IAS MAX 280 KT)

(4) For uncompensated BARO-VNAV systems, LNAV/VNAV not authorized below -20°C and above 50°C
(5) + 3000FT ATC discretion
(6) IAS MAX 170kt

ALTITUDES AND ELEVATIONS ARE IN FEET
DISTANCES IN NAUTICAL MILES
SCALE 1:500.000

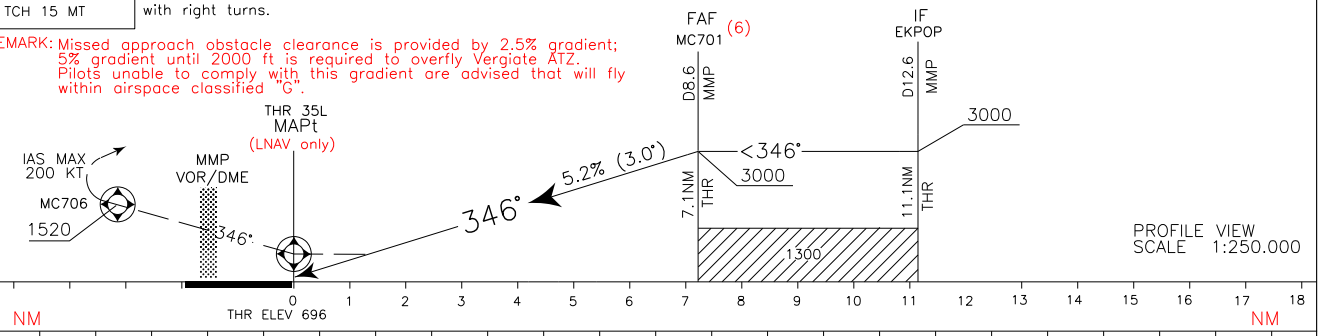
INLER Holding



TRANSITION ALT 6000
TCH 15 MT

MISSED APPROACH: Proceed on TR 346° climbing to 4000 ft. At MC706 (D1.6 MMP DME)(MCA 1520Ft) turn left (IAS MAX 200kt) to join RDL 253 MMP VOR to Missed Approach holding pattern. Hold on RDL 253 MMP VOR (inbound TR 073°) between 12NM and 16NM MMP DME with right turns.

REMARK: Missed approach obstacle clearance is provided by 2.5% gradient; 5% gradient until 2000 ft is required to overfly Vergiate ATZ. Pilots unable to comply with this gradient are advised that will fly within airspace classified "G".



OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	LPV	1120 (424)	1132 (436)	1140 (444)	1151 (455)
	LNAV/VNAV (4)	1120 (424)	1132 (436)	1140 (444)	1151 (455)
	LNAV	1250 (554)			
CIRCLING		1450 (682)		1650 (882)	1710 (942)

CIRCLING SECTORS — NOT ALLOWED

FT PER MIN	GS	FAP-THR 7.08 NM
850	160	2 : 39
740	140	3 : 02
635	120	3 : 32
530	100	4 : 15
425	80	5 : 19

DIST THR 35L	ALT (HGT)
7	2977 (2281)
6	2658 (1962)
5	2340 (1644)
4	2022 (1326)
3	1703 (1007)
2	1385 (689)

MNM SECT ALT 25 NM ARP: 10300

TABULAR DESCRIPTION

RNP RWY35L – Instrument Approach Procedure

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	VPA (°)/ TCH (m)	Navigation Specification
010	IF	INLER	-	-			-	+4000 (1)	AT190	-	RNAV 1
020	TF	EKPOP	-	343 (345.9)	-	4.0	-	+3000	180	-	RNAV 1
030	TF	MC701	-	346 (349.0)	-	4.0	-	+3000	170	-	RNP APCH
040	TF	RWY35L	Y	346 (349.0)	-	7.1	-	@745(2)	-	3.0/ 15.0	RNP APCH
050	CF	MC706	Y	346 (349.0)	3	-	-	+1520	200	-	RNP APCH
060	CF	MC707	-	253 (256.0)	3	-	L	+4000	200	-	RNAV 1

(1) +3000FT ATC discretion
(2) THR Altitude plus TCH; for MA transition the value is according to the minima LNAV or LNAV/VNAV

HOLDING IAF - RNAV 1

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	INLER	356 (359.0)	3.5	1.0/ -	R	+4000	-	190	3	RNAV1

(1) RNAV system with holding functionality
(2) RNAV system without holding functionality

HOLDING MISSED APPROACH - CONVENTIONAL

Path Terminator	Waypoint (FIX)	Inbound Course °M (°T)	Navaid	Outbound leg	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Performance
HM	MC707 (RDL253/12NM)	073 (076.0)	MMP VOR/DME	Not exceed 16NM DME	R	+4000 (1)	-	200 (1)	1.0	Conventional

(1) MHL 75 or TRANSITION LEVEL IF HIGHER (IAS MAX 280 KT)

WAYPOINT LIST

Waypoint Identifier	Coordinates	
MC701	45°29'54.70" N	008°45'33.29" E
MC706	45°39'48.60" N	008°42'49.44" E
MC707	45°35'31.53" N	008°27'31.18" E

SBAS FAS DATA BLOCK LIMC RNP RWY35L

INPUT DATA	
PARAMETERS	**VALUES**
Operation Type	0
SBAS Provider	1
Airport Identifier	LIMC
Runway	35
Runway Direction	3
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E35E
LTP/FTP Latitude	453651.8645N
LTP/FTP Longitude	0084338.3045E
LTP/FTP Ellipsoidal Height (metres)	257.4
FPAP Latitude	453843.6325N
Delta FPAP Latitude (seconds)	111.7680
FPAP Longitude	0084307.4120E
Delta FPAP Longitude (seconds)	-30.8925
Threshold Crossing Height	50.0
TCH Units Selector	0
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

OUTPUT DATA	
Data Block	10 03 0D 09 0C E3 00 00 05 35 33 05 31 59 93 13 81 CF BE 03 0E 1E 30 69 03 A7 0E FF F4 01 2C 01 64 00 C8 FA D9 24 74 E9
Calculated CRC Value	D92474E9

REQUIRED ADDITIONAL DATA (NOT CRC WRAPPED)	
These additional data are not required for CRC calculation, but they need to be provided to datahouses for procedure coding in ARINC 424 records.	
ICAO Code	LI
LTP/FTP Orthometric Height (metres)	212.2
FPAP Orthometric Height (metres)	232.9

Intenzionalmente bianca

Intentionally left blank

CHANGE: NOV NDB DISMISSED — NOV HOLDING WITHDRAWN

DOC 8168 ED 6 2014 AMDT 8

WARNING:
Final approach track offset by 12.9° from RWY center line. RWY center line intercepted 2265 m before THR RWY 35L

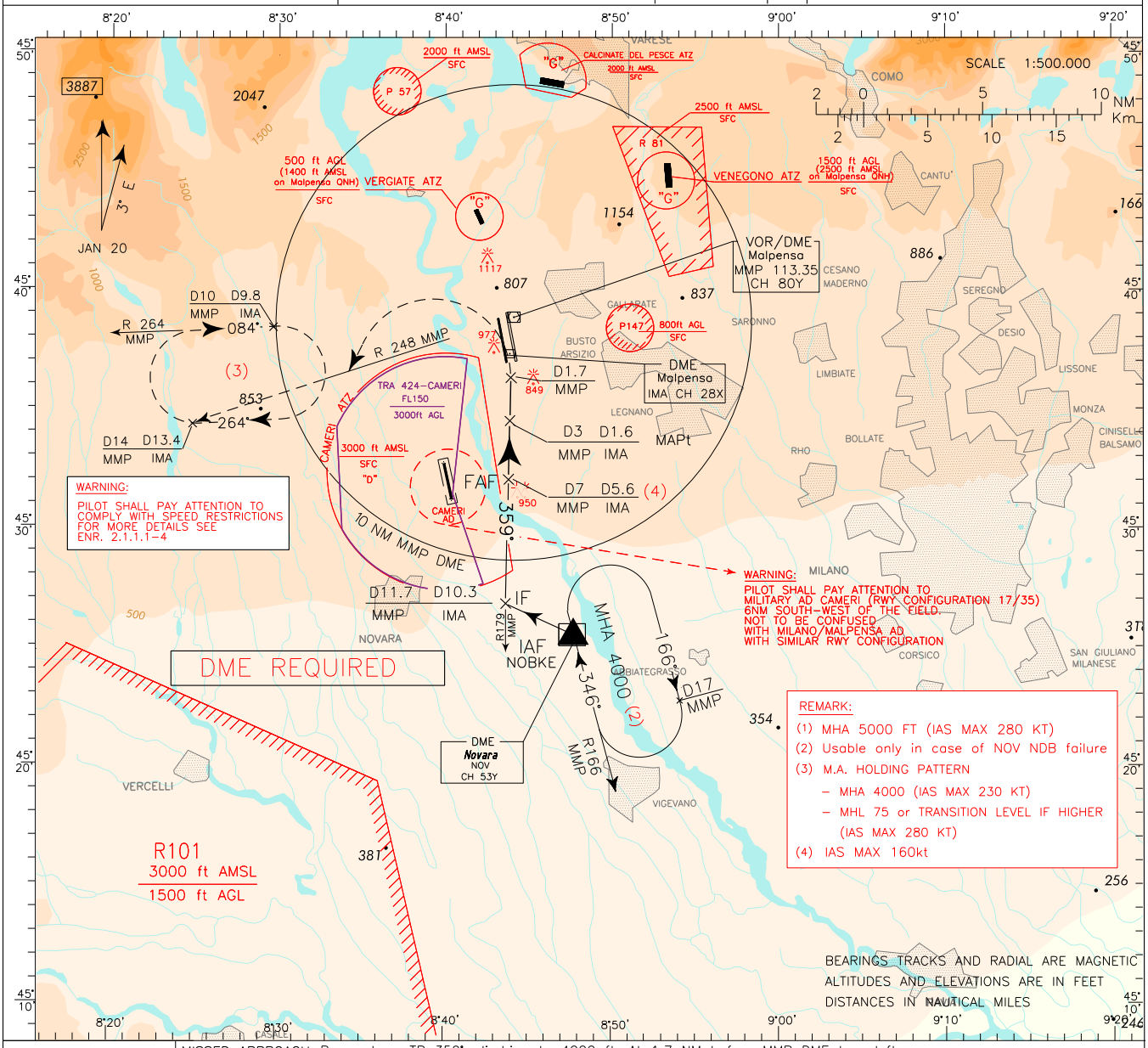
APP *Milano Radar*	CH 125.630 (CH 132.705)	
TWR *Malpensa TWR*	128.350	
ATIS *Malpensa Arrival Information*	120.025	

AD ELEV 768

LIMC

MILANO/ MALPENSA

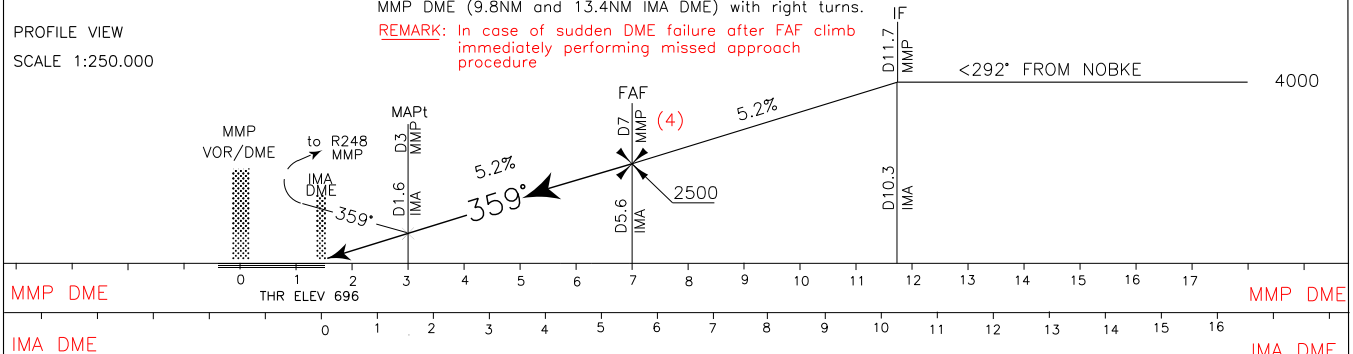
VOR RWY 35L



TRANSITION ALT 6000

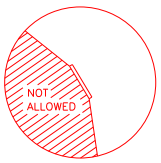
MISSED APPROACH: Proceed on TR 359° climbing to 4000 ft. At 1.7 NM before MMP DME turn left to intercept and follow RDL 248 MMP VOR to join Missed Approach holding pattern.
Hold on RDL 264 MMP VOR (inbound TR 084°) between 10NM and 14NM MMP DME (9.8NM and 13.4NM IMA DME) with right turns.
REMARK: In case of sudden DME failure after FAF climb immediately performing missed approach procedure

PROFILE VIEW
SCALE 1:250.000



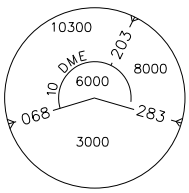
OCA (OCH)	A	B	C	D
STRAIGHT IN APPROACH — VOR	1200 (504)			
CIRCLING	1450 (682)		1650 (882)	1710 (942)

CIRCLING SECTORS



FT PER MIN	GS	DIST MMP	ALT (HGT)
		7 DME	2500 (1804)
850	160	6 DME	2160 (1464)
740	140	5 DME	1840 (1144)
635	120	4 DME	1520 (824)
530	100	3 DME	1200 (504)

MNM SECT ALT MMP VOR/DME



DOC 8168 ED 6 2014 AMDT 8

CHANGE: TWR FREQ UPDATED

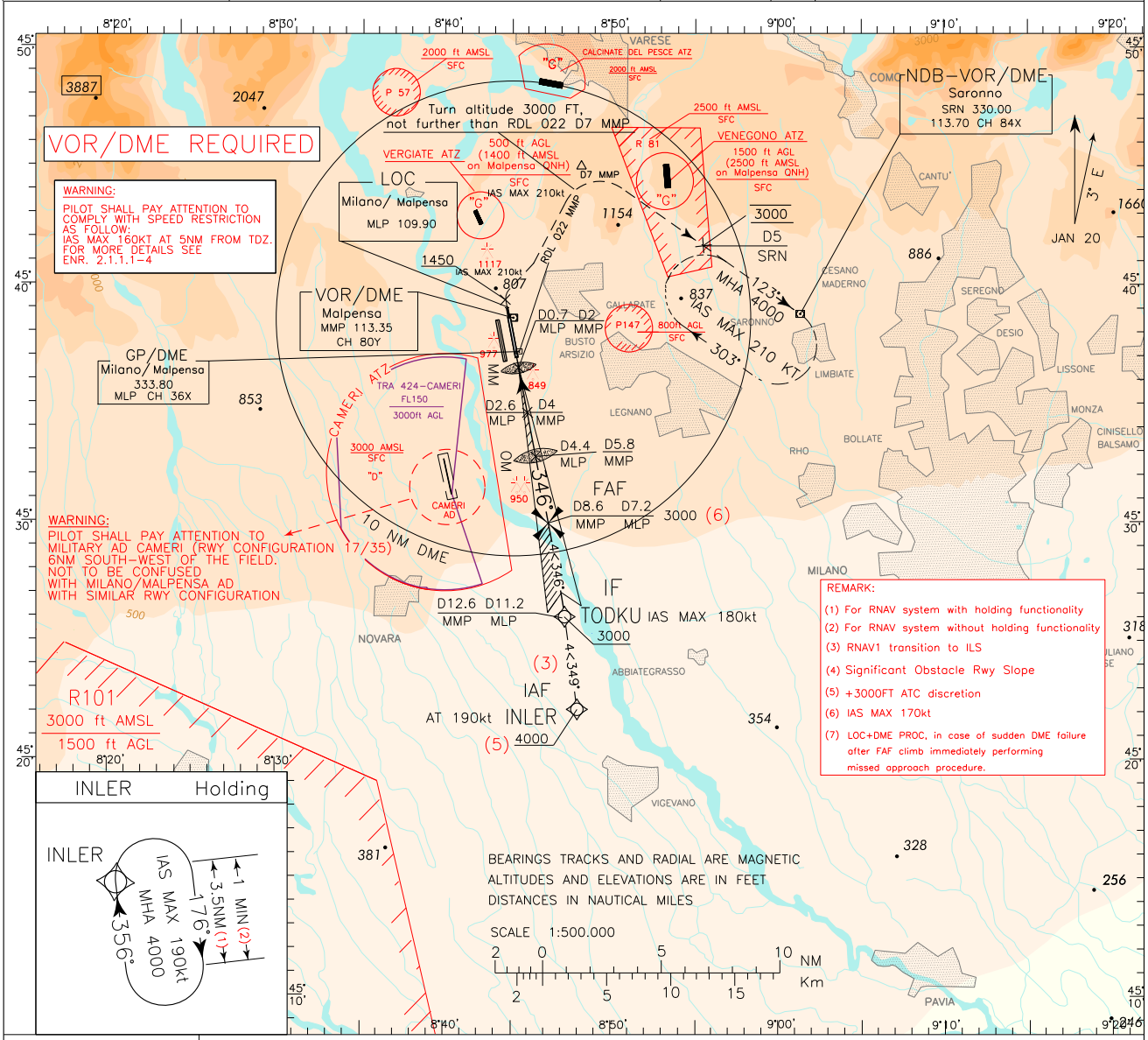
WARNING:
Some users on ILS APCH reported false LOC captures. Pilot attention is drawn to pay max caution.
See AIP ENR 1.3

APP	*Milano Radar*	CH 125.630 (CH 132.705)
TWR	*Malpensa TWR*	123.600 (128.350)
ATIS	*Milano Arrival Information*	120.025

AD ELEV 768

LIMC

MILANO/MALPENSA
ILS or LOC-Z RWY 35R

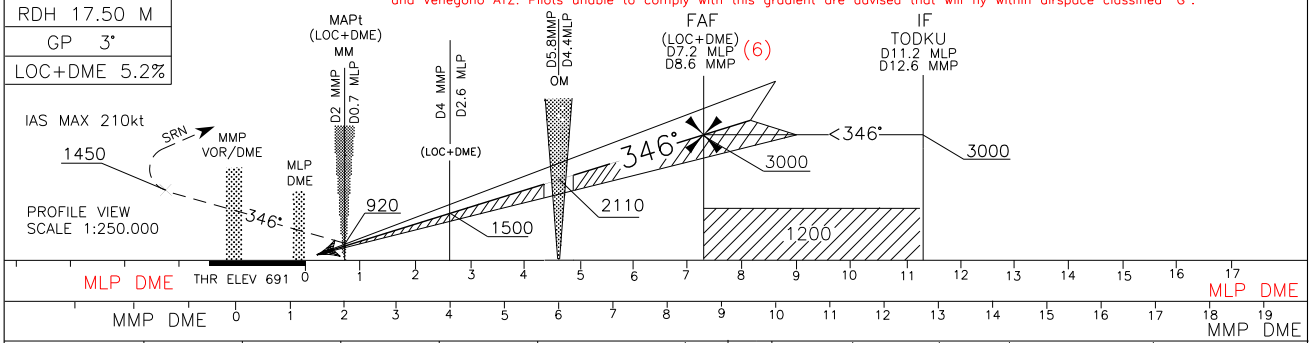


TRANSITION ALT 6000

MISSED APPROACH: Proceed on track 346° climbing to 1450 ft. At 1450 ft turn right as soon as possible (IAS MAX 210KT) to join RDL 022 MMP VOR climbing to 3000 ft. At 3000 ft steady, not further than RDL 022/7 NM MMP VOR/DME, turn right (IAS MAX 210KT) to SRN VOR/DME NDB. Maintain 3000 ft until 5 NM SRN DME, then climb to 4000 ft.

REMARK: Missed approach obstacle clearance is provided by 2,5% gradient; 5% gradient until 3000 ft is required to overfly Vergiate and Venegono ATZ. Pilots unable to comply with this gradient are advised that will fly within airspace classified "G".

RDH 17.50 M
GP 3°
LOC+DME 5.2%



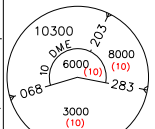
OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	CAT. I (4)	845 (154)	855 (164)	870 (179)	880 (189)
	CAT. II (4)	754 (63)	767 (76)	778 (87)	796 (105)
	LOC+DME (7)	1140 (449)			
CIRCLING		1450 (682)		1650 (882)	1710 (942)

CIRCLING SECTORS

NOT ALLOWED

FT PER MIN	GS	FAP–OM 2.80 NM	OM–MM 3.73 NM	MLP DME	ALT (HGT)
850	160	1 : 03	1 : 23		
740	140	1 : 12	1 : 35	D 7	2924 (2233)
635	120	1 : 24	1 : 51	D 6	2605 (1914)
530	100	1 : 41	2 : 13	D 4	1970 (1279)
425	80	2 : 06	2 : 46	D 2	1335 (644)

MNM SECT ALT
25NM FROM ARP or VOR/DME MMP



(10) 10300 in case of MMP VOR/DME unavailability

TABULAR DESCRIPTION

ILS Z RWY35R – RNAV TRANSITION TO ILS APPROACH

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	VPA/ TCH	Navigation Specification
010	IF	INLER	-	-	-	-	-	+4000 (1)	AT 190	-	RNAV 1
020	TF	TODKU	-	349 (351.9)	-	4.0	-	+3000	180	-	RNAV 1

(1) +3000ft ATC discretion

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	INLER	356 (359.0)	3.5	1.0/ -	R	+4000	-	190	3	RNAV1

(1) RNAV system with holding functionality
(2) RNAV system without holding functionality

DOC. 8168 ED. 6 2014 AMDT 8

CHANGE: TWR FREQ UPDATED

WARNING:
Some users on ILS APCH reported false LOC captures. Pilot attention is drawn to pay max caution.
See AIP ENR 1.3

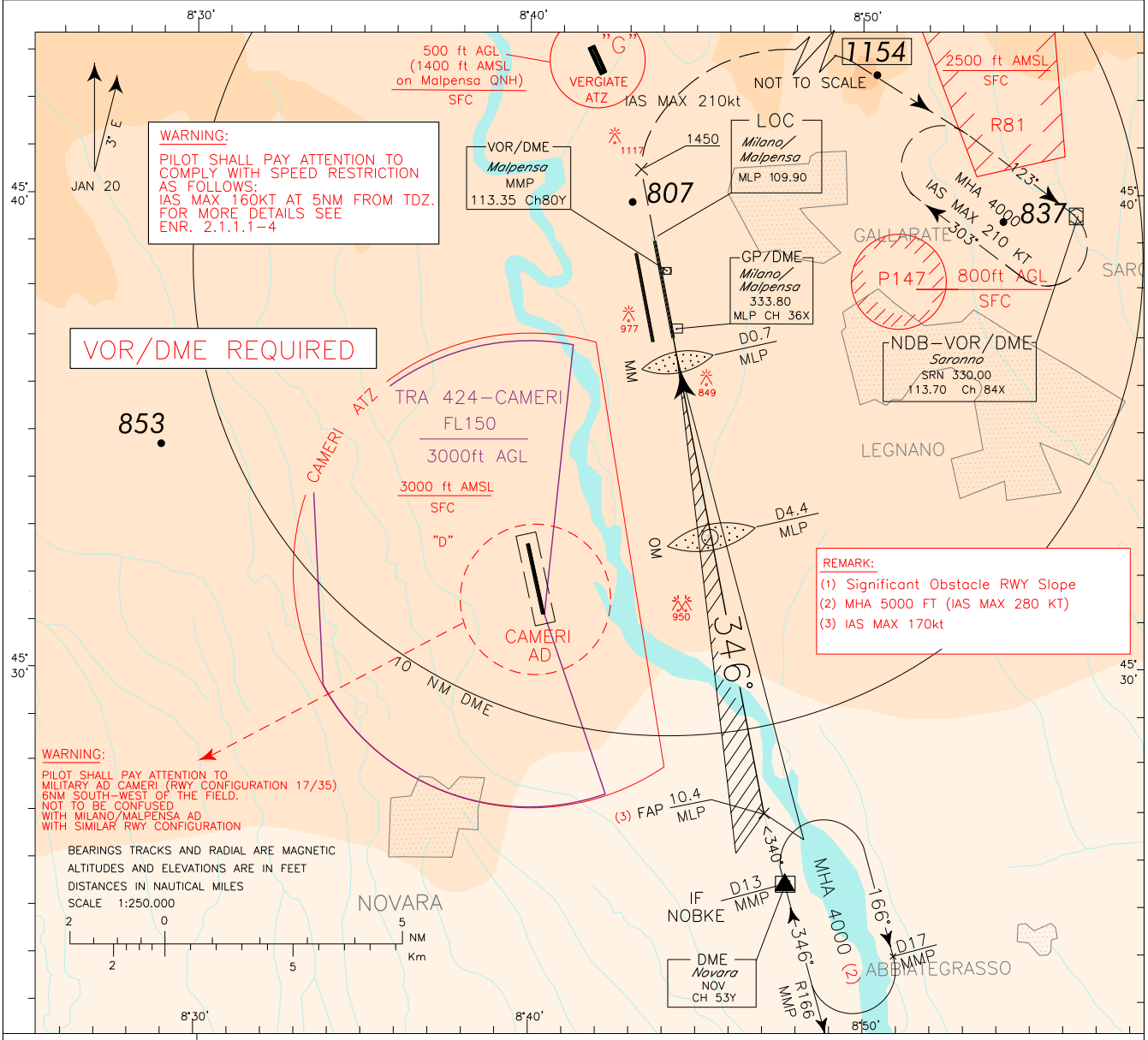
APP	*Milano Radar*	CH 125.630 (CH 132.705)
TWR	*Malpensa TWR*	123.600 (128.350)
ATIS	*Malpensa Arrival Information*	120.025

AD ELEV 768

LIMC

MILANO/MALPENSA

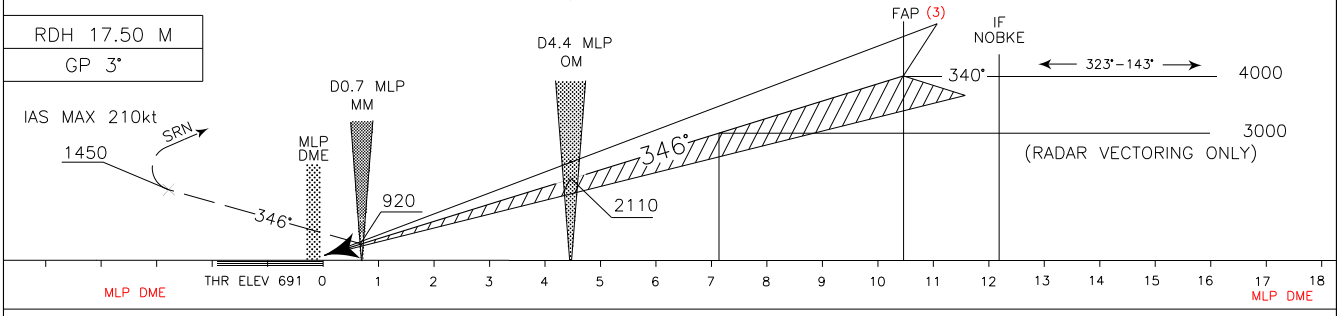
ILS-Y RWY 35R



TRANSITION ALT 6000

MISSED APPROACH: Proceed on track 346° climbing to 4000 ft. At 1450 ft turn right (IAS MAX 210KT) to SRN VOR DME/NDB Holding Pattern.
REMARK: Missed approach obstacle clearance is provided by 2.5% gradient; 5% gradient until 3000 ft is required to overfly Vergiate and Venegono ATZ. Pilots unable to comply with this gradient are advised that will fly within airspace classified "G"

RDH 17.50 M
GP 3°

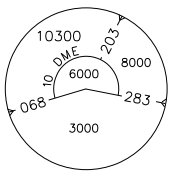


OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	CAT.I (1)	845 (154)	855 (164)	870 (179)	880 (189)
	CAT.II (1)	754 (63)	767 (76)	778 (87)	796 (105)
CIRCLING		1450 (682)		1650 (882)	1710 (942)

CIRCLING SECTORS

FT PER MIN	GS	FAP-OM 5.95 NM	OM-MM 3.73 NM	MLP DME	ALT (HGT)
850	160	2 : 14	1 : 23		
740	140	2 : 33	1 : 35	D 8	3240 (2549)
635	120	2 : 58	1 : 51	D 6	2605 (1914)
530	100	3 : 34	2 : 13	D 4	1970 (1279)
425	80	4 : 28	2 : 46	D 2	1335 (644)

MNM SECT ALT
MMP VOR/DME



DOC 8168 ED.6 – 2014 – AMDT 8

CHANGE: TWR FREQ UPDATED

EGNOS CH 72492 E35A	APP *Milano Radar* TWR *Malpensa TWR* ATIS *Malpensa Arrival Information*	CH 125.630 (CH 132.705) 123.600 (128.350) (120.025)	AD ELEV 768	LIMC	MILANO/ MALPENSA RNP RWY 35R

RNP APCH

WARNING:
PILOT SHALL PAY ATTENTION TO COMPLY WITH SPEED RESTRICTION AS FOLLOWS:
IAS MAX 160KT AT 5NM FROM TDZ.
FOR MORE DETAILS SEE ENR. 2.1.1.1–4

VERGIATE ATZ 500 ft AGL (1400 ft AMSL on Malpensa QNH) SFC

VENEGONO ATZ 1500 ft AGL (2500 ft AMSL on Malpensa QNH) SFC

CALCINATE DEL PESCE ATZ 2000 ft AMSL SFC

2500 ft AMSL SFC

R 81

IAS MAX 200Kts

VOR/DME
Malpensa
MMP 113.35
CH 80Y

CAMERI ATZ
TRA 424–CAMERI
FL150
3000ft AGL
3000 AMSL SFC
"D"
CAMERI AD

MAPt (THR 35R)
(LNAV ONLY)

NDB–VOR/DME
Saronno
SRN 330.00
113.70 CH 84X

WARNING:
PILOT SHALL PAY ATTENTION TO MILITARY AD CAMERI (RWY CONFIGURATION 17/35) 6NM SOUTH–WEST OF THE FIELD.
NOT TO BE CONFUSED WITH MILANO/MALPENSA AD WITH SIMILAR RWY CONFIGURATION

10 NM DME

FAF MC802 (5) 7.1NM THR 8.6NM MMP 3000

IF TODKU 11.1NM THR 12.6NM MMP 3000

IAF INLER AT 190kt (4) 4000

IAS MAX 180kt

REMARK:
(1) For RNAV system with holding functionality
(2) For RNAV system without holding functionality
(3) For uncompensated BARO – VNAV systems, LNAV/VNAV not authorized below –20° and above 50°
(4) +3000FT ATC discretion
(5) IAS MAX 170kt

INLER Holding

INLER
IAS MAX 190kt
MHA 4000
356°
176°
3.5NM (1)
1 MIN (2)

R101
3000 ft AMSL
1500 ft AGL

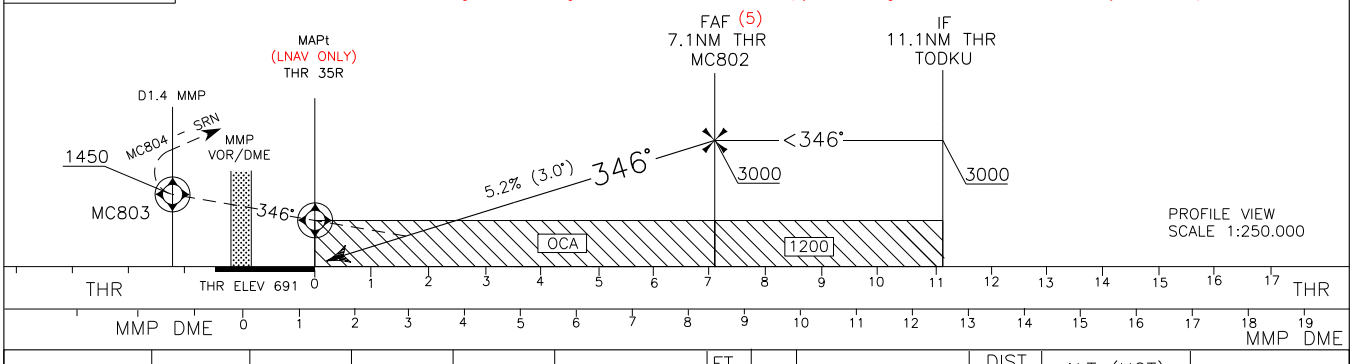
BEARINGS TRACKS AND RADIAL ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET
DISTANCES IN NAUTICAL MILES
SCALE 1:500.000

TRANSITION ALT 6000

TCH 17.50 M

MISSED APPROACH: Proceed on track 346° climbing to 4000 ft. At MC803 (D1.4 MMP DME) (MCA 1450 ft) turn right (IAS MAX 200Kts) on track 107° to MC804 (MCA 3500Ft) then SRN VOR/DME NDB.

REMARK: Missed approach obstacle clearance is provided by 2,5% gradient; 5% gradient until 3000 ft is required to overfly Vergiate and Venegono ATZ. Pilots unable to comply with this gradient are advised that will fly within airspace classified "G".



OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	LPV	969 (278)	981 (290)	989 (298)	1000 (309)
	LNAV/VNAV (3)	1120 (429)	1132 (441)	1140 (449)	1151 (460)
	LNAV	1200 (509)			
CIRCLING		1450 (682)		1650 (882)	1710 (942)

CIRCLING SECTORS

NOT ALLOWED

FT PER MIN	GS	FAF – THR
		7.07 NM
850	160	2 : 39
740	140	3 : 02
635	120	3 : 33
530	100	4 : 15
425	80	5 : 19

DIST THR	ALT (HGT)
D 7	2981 (2290)
D 6	2662 (1971)
D 5	2343 (1652)
D 4	2024 (1333)
D 3	1705 (1014)
D 2	1386 (695)

MNM SECT ALT
25NM ARP
10300

TABULAR DESCRIPTION

RNP RWY35R – Instrument Approach Procedure

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	VPA/ TCH	Navigation Specification
010	IF	INLER	-	-			-	+4000 (1)	AT 190	-	RNAV 1
020	TF	TODKU	-	349 (352.3)		4.0	-	+3000	180	-	RNAV 1
030	TF	MC802	-	346 (349.1)		4.0	-	+3000	170	-	RNP APCH
040	TF	RWY35R	Y	346 (349.0)		7.1	-	@748(2)	-	3.0/ 17.5	RNP APCH
050	CF	MC803	Y	346 (349.0)	3	-	-	+1450	200	-	RNP APCH
060	CF	MC804	-	107 (110.0)	3	-	R	+3500	200	-	RNAV 1
070	TF	SRN	-	107 (109.8)		-	-	+4000	-	-	RNAV 1

(1) +3000FT ATC discretion
(2) THR Altitude plus TCH; for MA transition the value is according to the minima LNAV or LNAV/VNAV

HOLDING IAF - RNAV 1

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	INLER	356 (359.0)	3.5	1.0/ -	R	+4000	-	190	3	RNAV1

(1) RNAV system with holding functionality
(2) RNAV system without holding functionality

HOLDING MISSED APPROACH - CONVENTIONAL

Path Terminator	Waypoint (FIX)	Inbound Course °M (°T)	Navaid	Outbound leg	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL	Speed Limit (kt)	Magnetic Variation (°)	Navigation Performance
HM	SRN VOR NDB/DME	123 (126.0)	SRN VOR NDB/DME	-	R	+4000	-	210	3	Conventional

WAYPOINT LIST

Waypoint Identifier	Coordinates
MC802	45°30'00.08" N 008°46'09.78" E
MC803	45°39'47.19" N 008°43'27.87" E
MC804	45°41'22.61" N 008°50'59.08" E

SBAS FAS DATA BLOCK LIMC RNP RWY35R

Parameters	Values
Operation Type	0
SBAS Provider	1
Airport Identifier	LIMC
Runway	35
Runway Direction	1
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E35A
LTP/FTP Latitude	453656.7015N
LTP/FTP Longitude	0084414.9860E
LTP/FTP Ellipsoidal Height (metres)	255.8
FPAP Latitude	453901.3310N
Delta FPAP Latitude (seconds)	124.6295
FPAP Longitude	0084340.5460E
Delta FPAP Longitude (seconds)	-34.4400
Threshold Crossing Height	17.50
TCH Units Selector	1
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output Data

Data Block	10 03 0D 09 0C 63 00 00 01 35 33 05 FB 7E 93 13 14 EE BF 03 FE 1D AB CD 03 F0 F2 FE 5E 81 2C 01 64 00 C8 FA E2 6F 15 D3
Calculated CRC Value	E26F15D3

Required Additional Data (not CRC wrapped)

These additional data are not required for CRC calculation, but they need to be provided to datahouses for procedure coding in ARINC 424 records.

Parameters	Values
ICAO Code	LI
LTP/FTP Orthometric Height (metres)	210.6
FPAP Orthometric Height (metres)	234.1

Intenzionalmente bianca

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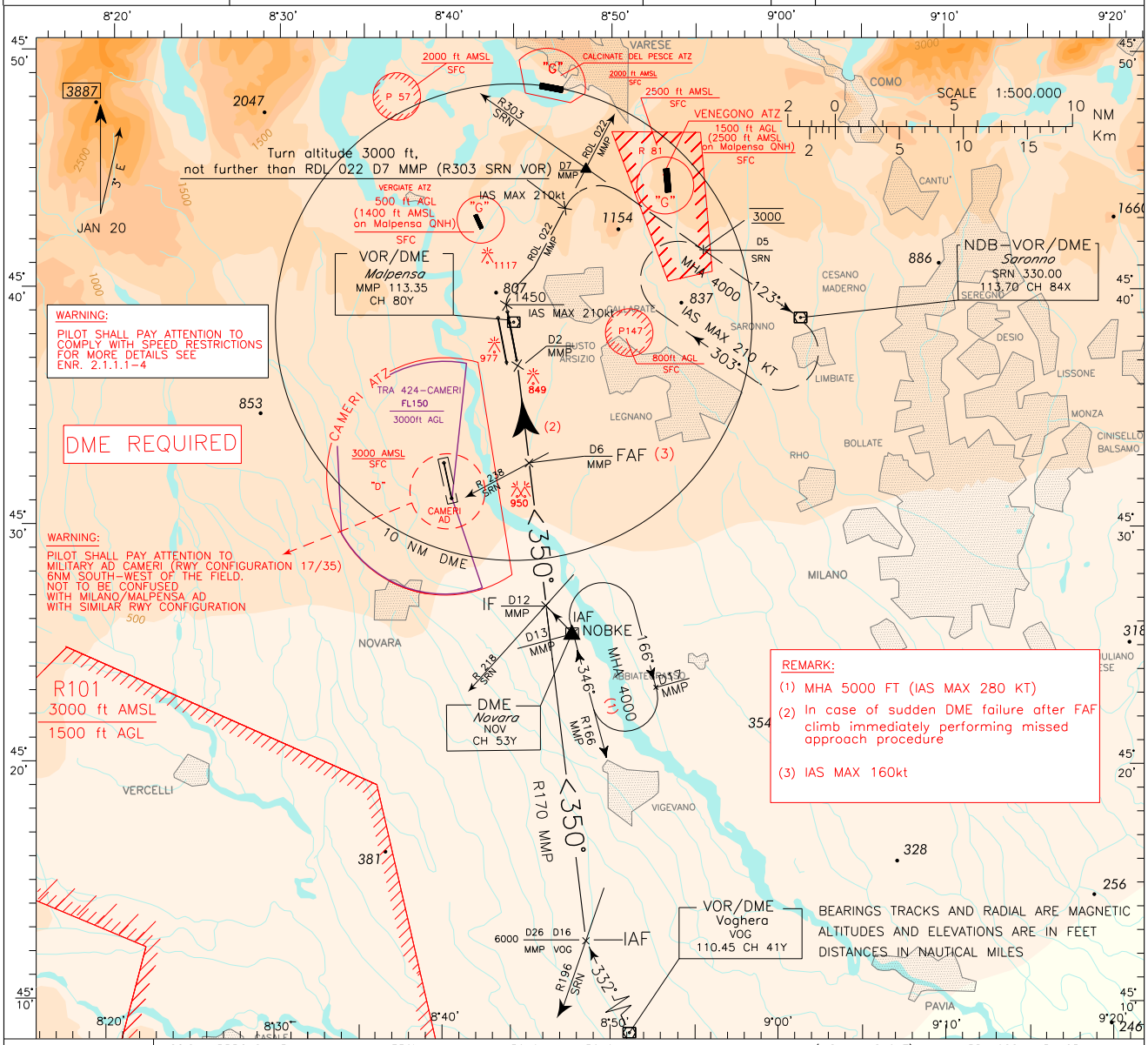
DOC 8168 ED 6 – 2014 – AMDT 8

CHANGE: TWR FREQ UPDATED

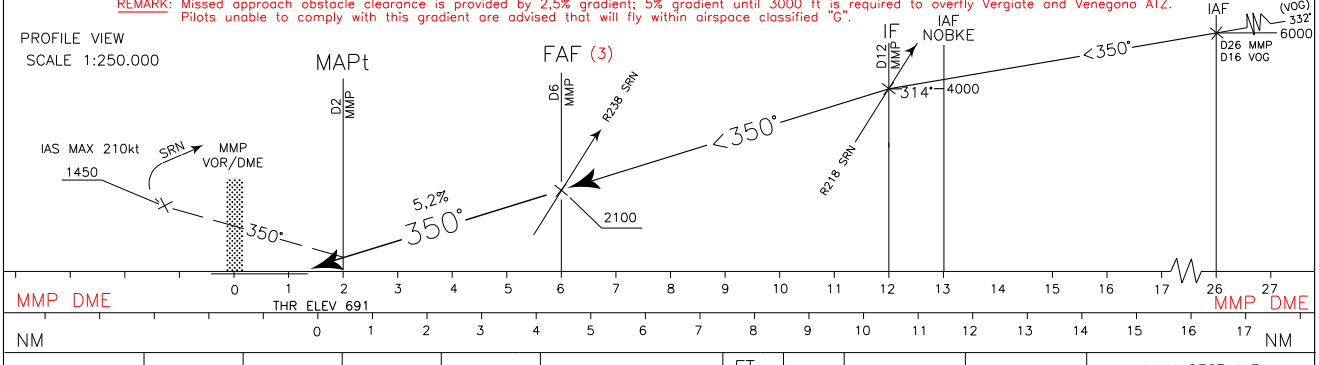
APP	*Milano Radar*	CH 125.630 (CH 132.705)	AD ELEV	LIMC
TWR	*Malpensa TWR*	123.600 (128.350)	768	MILANO/ MALPENSA
ATIS	*Malpensa Arrival Information*	120.025		VOR RWY 35R



TRANSITION ALT 6000

MISSION APPROACH: Proceed on track 350° climbing to 1450 ft. At 1450 ft turn right as soon as possible (IAS MAX 210KT) to join RDL 022 MMP VOR climbing to 3000 ft. At 3000 ft steady, not further than RDL 022/7 NM MMP VOR/DME, turn right (IAS MAX 210KT) to SRN VOR/DME NDB.
Maintain 3000 ft until 5 NM SRN DME, then climb to 4000ft.

REMARK: Missed approach obstacle clearance is provided by 2,5% gradient; 5% gradient until 3000 ft is required to overfly Vergiate and Venegono ATZ. Pilots unable to comply with this gradient are advised that will fly within airspace classified "G".

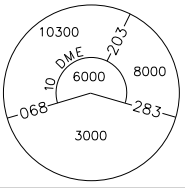


OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	VOR	1150 (459)			
CIRCLING		1450 (682)		1650 (882)	1710 (942)

CIRCLING SECTORS

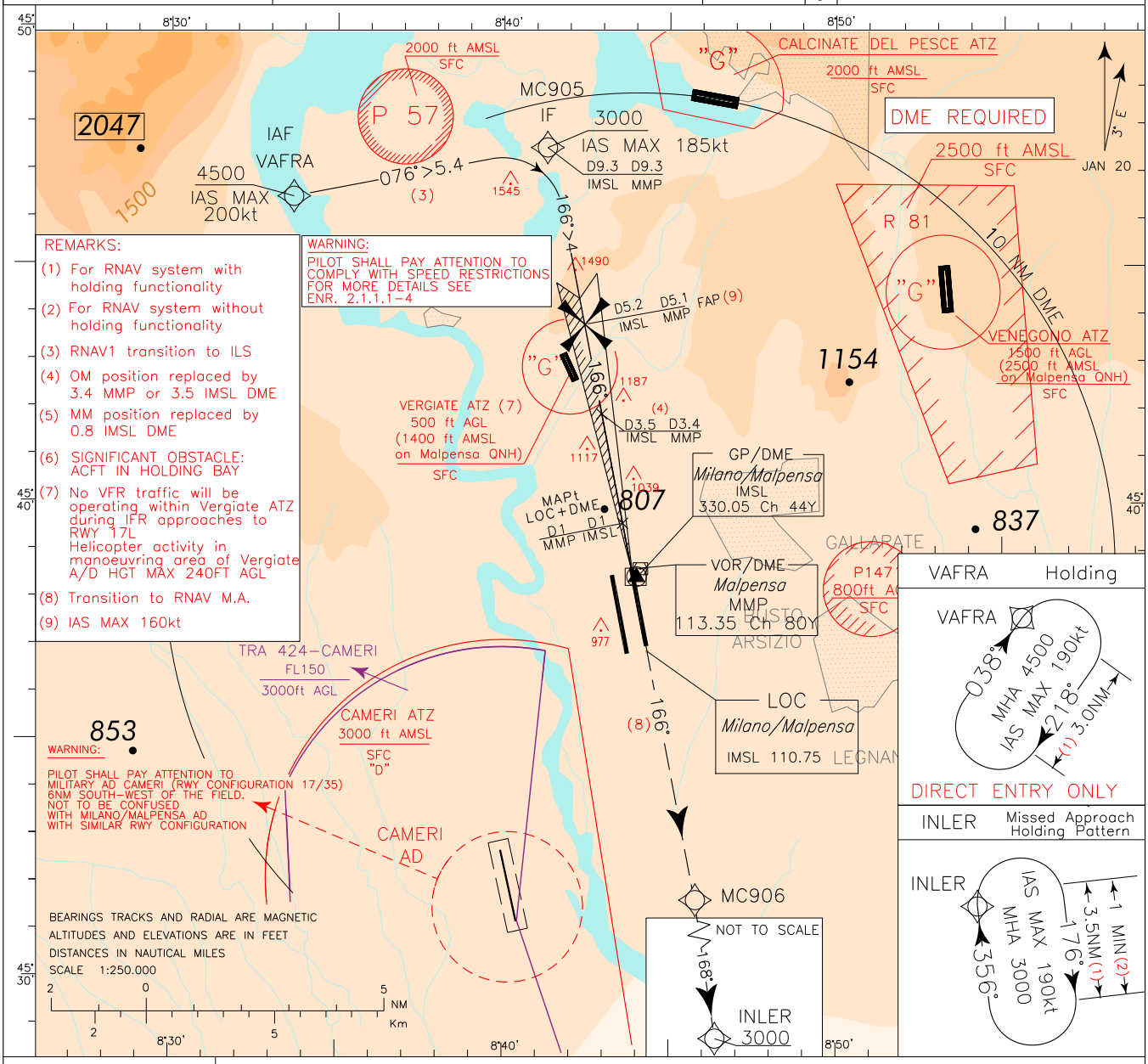
FT PER MIN	GS	DIST	ALT (HGT)
850	160	6 DME	2100 (1409)
740	140	5 DME	1790 (1099)
635	120	4 DME	1480 (789)
530	100	3 DME	1170 (479)
425	80		

MNM SECT ALT MMP VOR/DME



DOC 8168 ED 6 — 2014 AMDT 8
CHANGE: TWR FREQ UPDATED

APP Milano Radar CH 125.630 (CH 132.705) TWR Malpensa TWR 123.600 (128.350) ATIS Malpensa Arrival Information 120.025	AD ELEV 768	LIMC	MILANO/MALPENSA ILS or LOC-Z RWY 17L

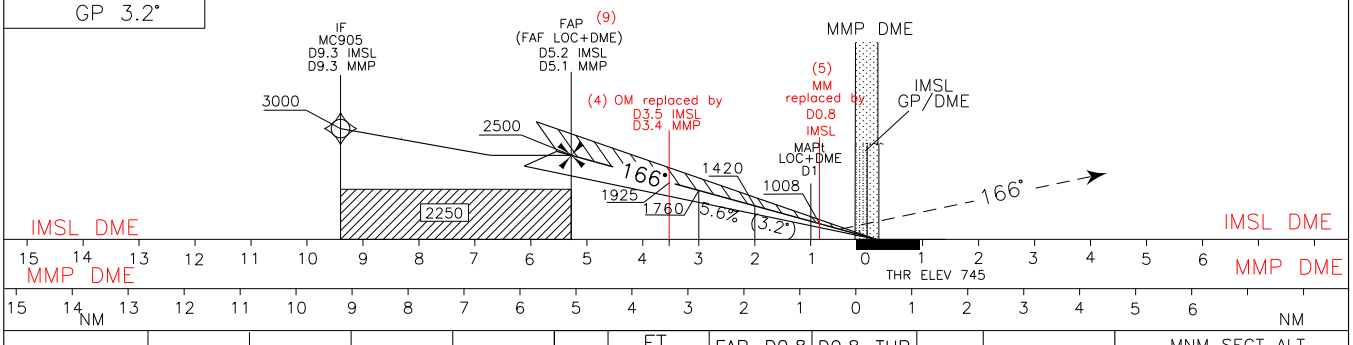


TRANSITION ALT 6000

MISSED APPROACH: Climbing to 3000 ft, continue on track 166° to MC906, then proceed on track 168° to INLER to join M.A. Holding.

RDH 16 M

GP 3.2°

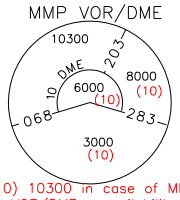


OCA (OCH)	A	B	C	D
STRAIGHT IN APPROACH — ILS CAT I (6)	945 (200)			
STRAIGHT IN APPROACH — LOC+DME	1300 (555)			
CIRCLING	1450 (682)	1650 (882)	1710 (942)	

REMARK: Circling allowed only to RWY 17R

GS	FT PER MIN	FAP-D0.8 4.39 NM	D0.8-THR 0.68 NM	IMSL DME	ALT (HGT)
160	906	1:39	0:15	5	2440 (1695)
140	793	1:53	0:18	4	2100 (1355)
120	679	2:12	0:20	3	1760 (1015)
100	566	2:38	0:24	2	1420 (675)
80	453	3:18	0:31		

MNM SECT ALT 25NM FROM ARP or MMP VOR/DME



(10) 10300 in case of MMP VOR/DME unavailability

TABULAR DESCRIPTION

RNAV TO ILS APPROACH RWY17L TRANSITION

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	VPA/ TCH	Navigation Specification
010	IF	VAFRA	-	-	-	-	-	+4500	200	-	RNAV 1
020	TF	MC905	-	076 (078.9)	-	5.4	-	+3000	185	-	RNAV 1

TRANSITION TO RNAV MISSED APPROACH

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	VPA/ TCH	Navigation Specification
010	CF	MC906	-	166 (169.0)	3	-	-	-	-	-	RNAV 1
020	TF	INLER	-	168 (170.4)	-	9.6	-	+3000	-	-	RNAV 1

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM (3)	VAFRA	038 (041.0)	3.0	-/ -	R	+4500	-	190	3	RNAV1
HM	INLER	356 (359.0)	3.5	1.0/ -	R	+3000	-	190	3	RNAV1

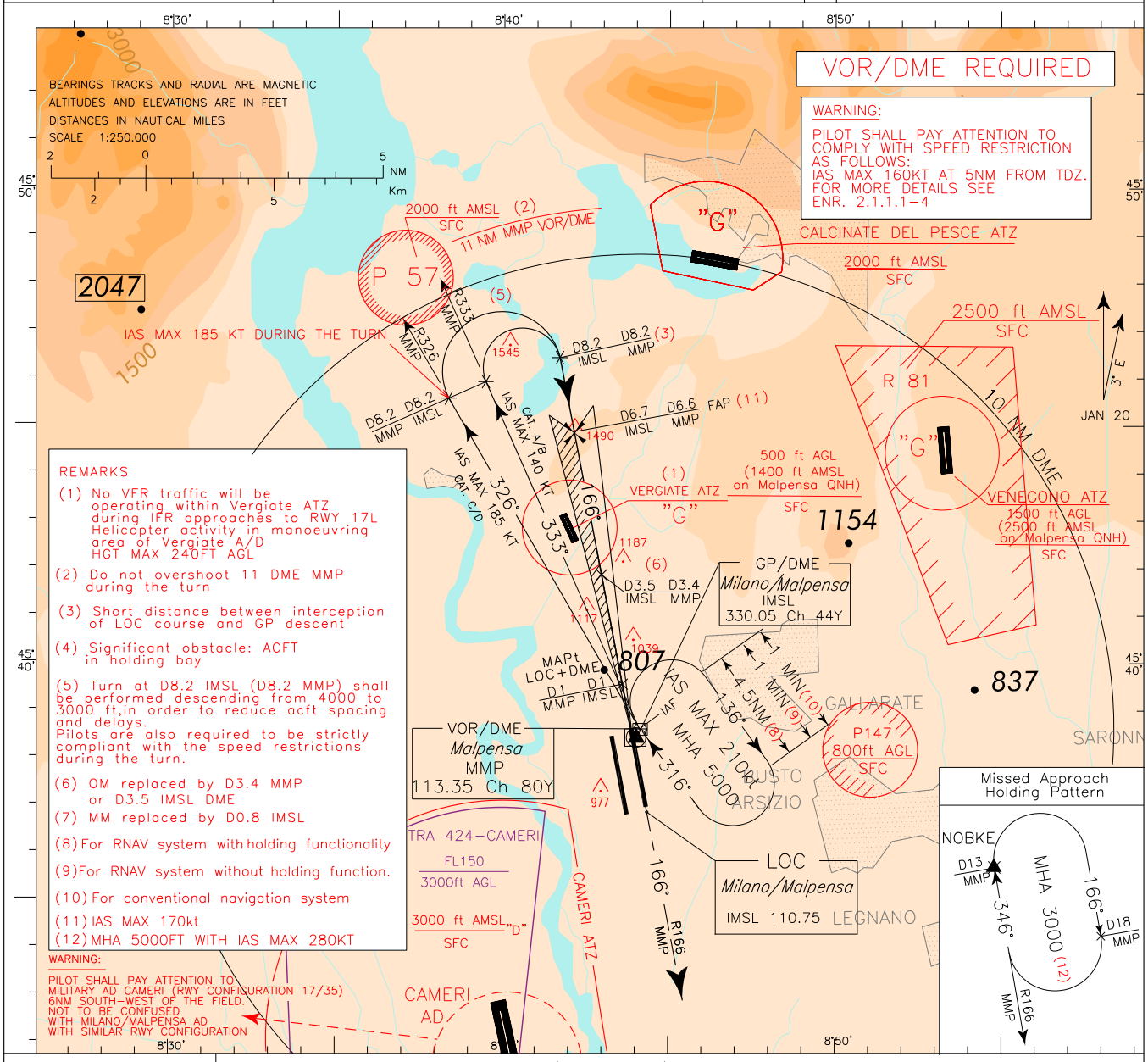
(1) RNAV system with holding functionality
(2) RNAV system without holding functionality
(3) Direct Entry Only

WAYPOINT LIST

Waypoint Identifier	Coordinates
MC905	45°47’30.48” N 008°41’19.29” E
MC906	45°31’40.95” N 008°45’42.02” E

DOC 8168 ED 6 - 2014 AMDT 8
CHANGE: TWR FREQ UPDATED

APP Milano Radar CH 125.630 (CH 132.705) TWR Malpensa TWR 123.600 (128.350) ATIS Malpensa Arrival Information 120.025	AD ELEV 768	LIMC	MILANO/MALPENSA ILS or LOC-X RWY 17L

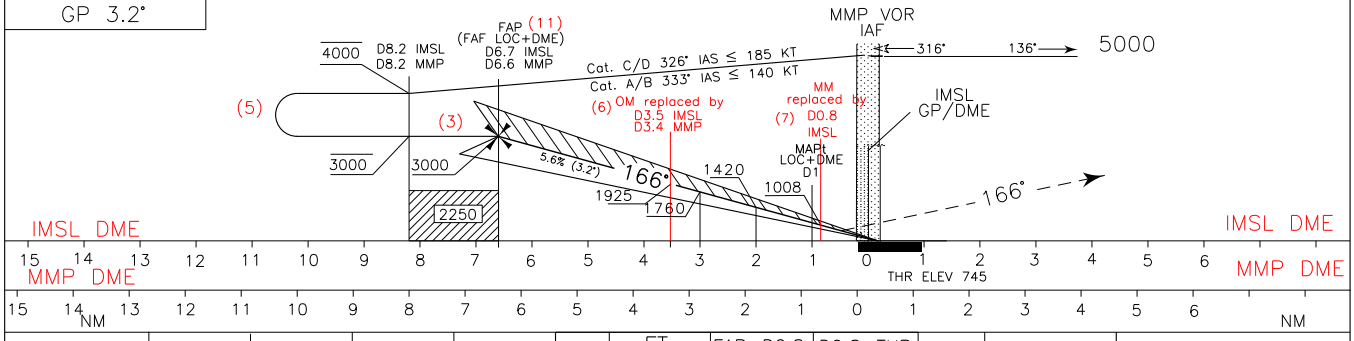


TRANSITION ALT 6000

RDH 16 M

GP 3.2°

MISSED APPROACH: Proceed on track 166° (RDL 166 MMP) and climb to 3000 ft to NOBKE missed approach holding pattern. Hold on RDL 166 MMP VOR (inbound track 346°) between 13 NM and 17 NM MMP DME, with right turns.

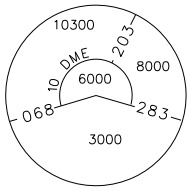


OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	ILS CAT I (4)	945 (200)			
	LOC+DME	1300 (555)			
CIRCLING		1450 (682)		1650 (882)	1710 (942)

REMARK: Circling allowed only to RWY 17R

GS	FT PER MIN	FAP-D0.8 5.87 NM	D0.8-THR 0.68 NM	IMSL DME	ALT (HGT)
160	906	2:12	0:15	6	2780 (2035)
140	793	2:31	0:18	5	2440 (1695)
120	679	2:56	0:20	4	2100 (1355)
100	566	3:32	0:24	3	1760 (1015)
80	453	4:24	0:31	2	1420 (675)

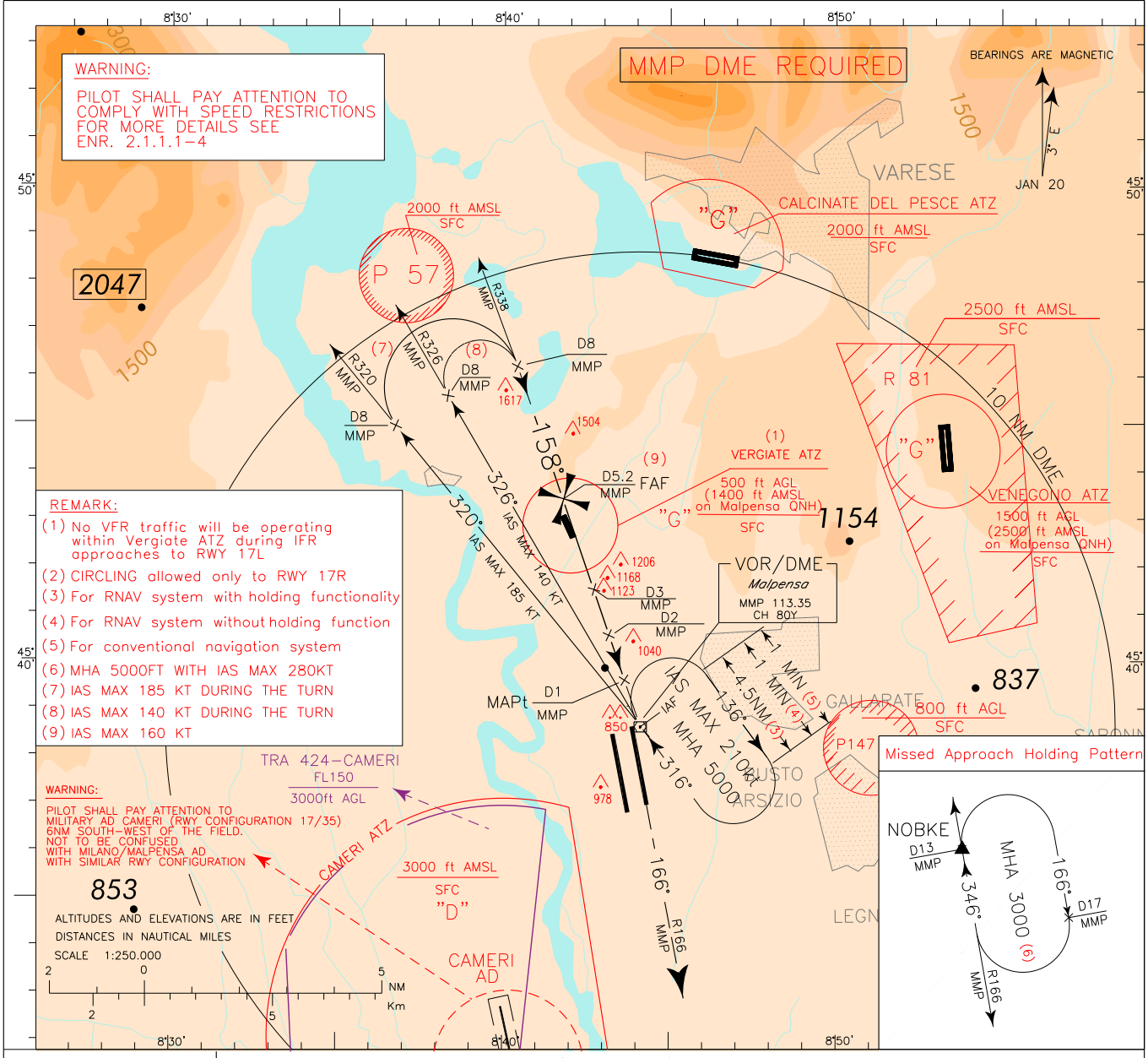
MNM SECT ALT MMP VOR/DME



DOC 8168 ED 6-2014 AMDT 8

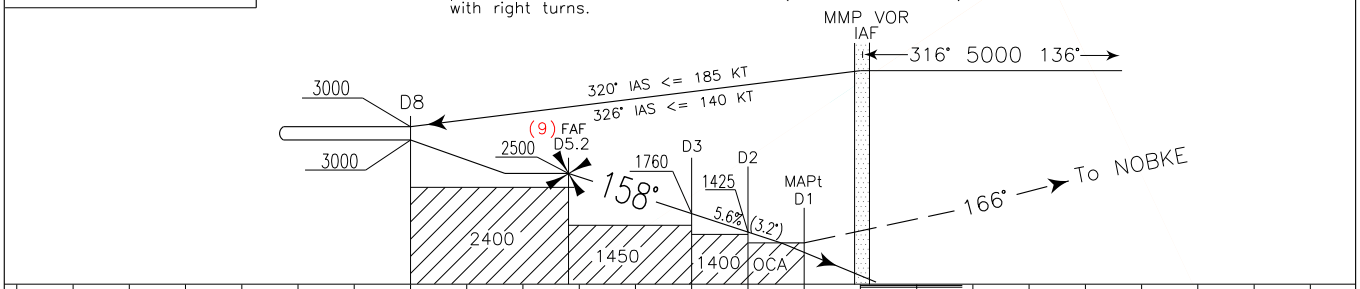
CHANGE: TWR FREQ UPDATED

APP Milano Radar CH 125.630 (CH 132.705) TWR Malpensa TWR 123.600 (128.350) ATIS Malpensa Arrival Information 120.025	AD ELEV 768	LIMC	MILANO/MALPENSA VOR RWY 17L



TRANSITION ALT 6000

MISSED APPROACH: Proceed on track 166° (RDL 166 MMP) and climb to 3000 ft to NOBKE missed approach holding pattern. Hold on RDL 166 MMP VOR (inbound track 346°) between 13 NM and 17 NM MMP DME, with right turns.

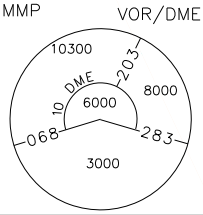


OCA (OCH)	A	B	C	D
STRAIGHT IN APPROACH — VOR+DME	1300 (555)			
CIRCLING (2)	1450 (682)		1650 (882)	1710 (942)

FT PER MIN	GS	DIST MMP	ALT (HGT)	
848	160	5 DME	2435 (1690)	
742	140	4 DME	2095 (1350)	
636	120	3 DME	1760 (1015)	
530	100	2 DME	1425 (680)	
424	80			

MNM SECT ALT

MMP VOR/DME



FIX/POINT	Coordinates (WGS84)
IAF (MMP VOR)	45°25'27"N 008°44'05"E
INT RDL320/08 NM MMP VOR/DME	45°44'46.40"N 008°37'07.18"E
INT RDL326/08 NM MMP VOR/DME	45°45'18.74"N 008°38'14.77"E
INT RDL338/08 NM MMP VOR/DME	45°46'00.33"N 008°40'22.27"E
FAF (INT RDL338/5.2 NM MMP VOR/DME)	45°43'21.52"N 008°41'40.54"E
INT RDL338/03 NM MMP VOR/DME	45°41'16.89"N 008°42'41.85"E
INT RDL338/02 NM MMP VOR/DME	45°40'20.25"N 008°43'09.69"E
MAPt (INT RDL338/01 NM MMP VOR/DME)	45°39'23.46"N 008°43'37.59"E

DOC 8168 — ED 6 2014 — AMDT 8
CHANGE: TWR FREQ UPDATED

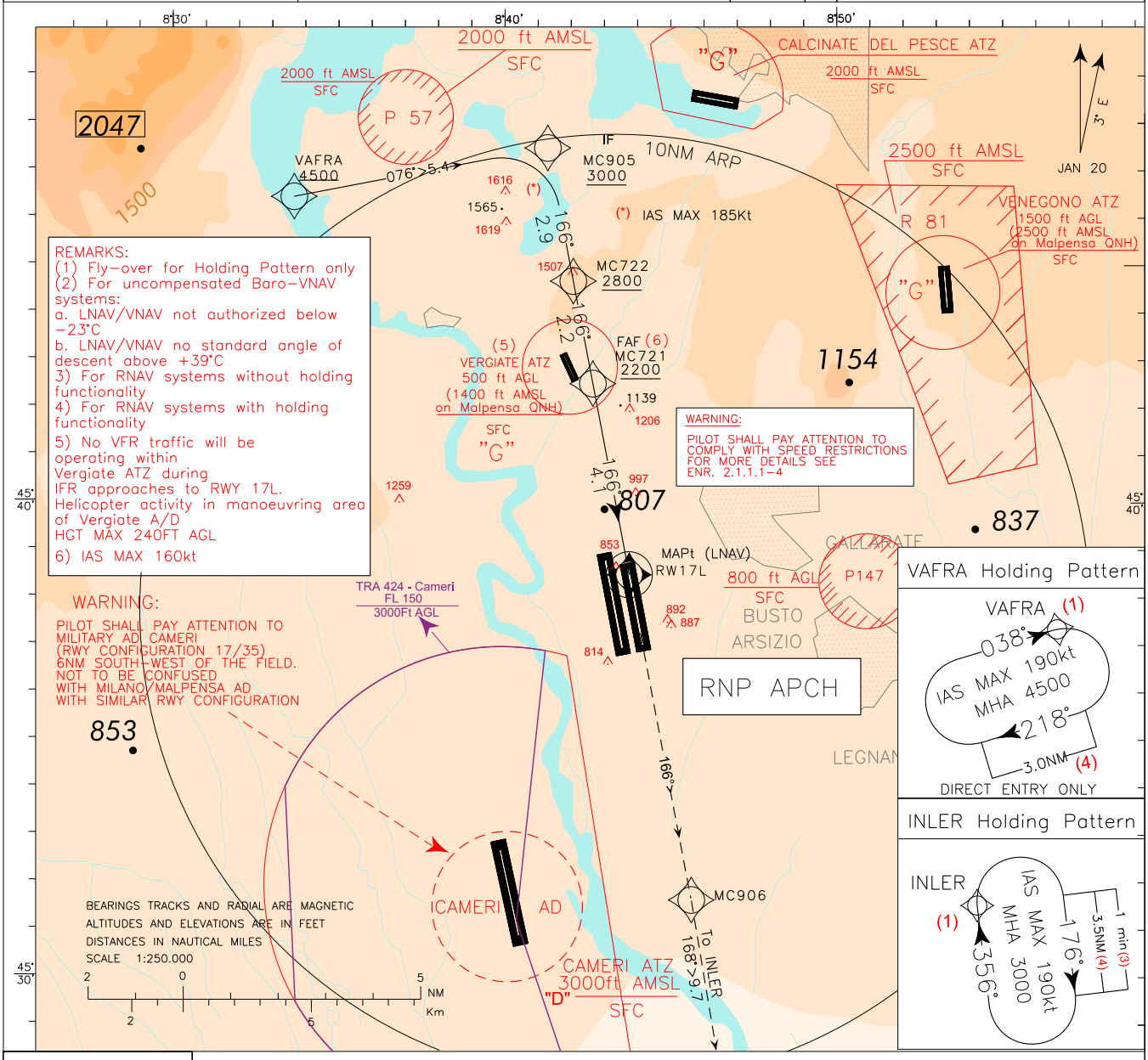
EGNOS CH 56010
E17A

APP Milano Radar CH 125.630 (CH 132.705)
TWR Malpensa TWR 123.600 (128.350)
ATIS Malpensa Arrival Information 120.025

AD ELEV 768

LIMC

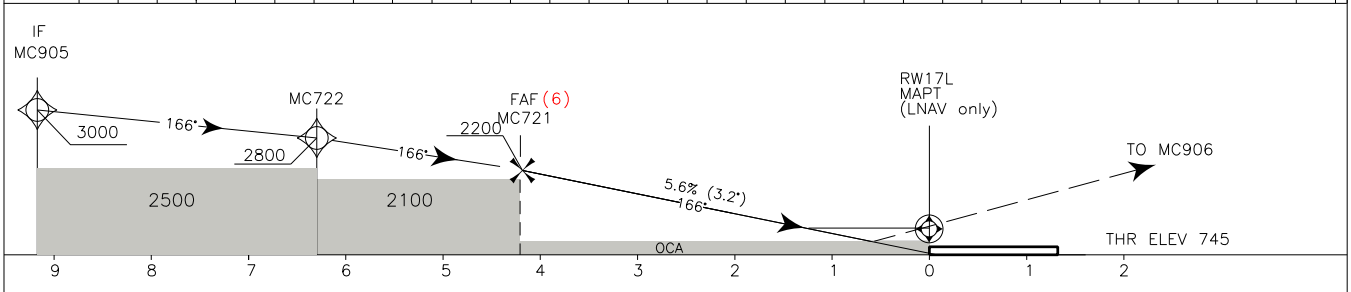
MILANO/MALPENSA
RNP Z RWY 17L



TRANSITION ALT 6000

TCH 15 M

MISSED APPROACH: Climbing to 3000FT, continue on course 166° to MC906 then proceed to INLER to join Missed Approach Holding Pattern



OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	LPV (8)	955 (210)	965 (220)	975 (230)	985 (240)
	LNAV/VNAV	1124 (379)	1135 (390)	1147 (402)	1158 (413)
	LNAV	1470 (725)			
CIRCLING (7)		1470 (702)		1650 (882)	1710 (942)

REMARK
(7) Circling allowed only to RWY 17R

(8) Significant obstacle: ACFT in holding bay

FT PER MIN	GS	FAF — MAPt	RWY17L DIST.	ALT (HGT)
		4.1 NM	4.0	2156 (1411)
1010	180	1 : 22	3.0	1816 (1071)
900	160	1 : 32	2.0	1476 (731)
780	140	1 : 46	1.0	1136 (391)
670	120	2 : 03		
560	100	2 : 40		
450	80	3 : 05		

MNM SECT ALT 25NM ARP
10300

TABULAR DESCRIPTION

RNP Z RWY 17L - Instrument Approach Procedure

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)/Bank Angle	VPA/ TCH	Navigation Specification
010	IF	VAFRA	-	-	-	-	-	+4500	200	-	RNP APCH
020	TF	MC905	-	076 (078.9)	-	5.4	-	+3000	185	-	RNP APCH
030	TF	MC722	-	166 (169.0)	-	2.9	R	+2800	185	-	RNP APCH
040	TF	MC721	-	166 (169.0)	-	2.2	-	+2200	160	-	RNP APCH
050	TF	RW17L	Y	166 (169.0)	-	4.1	-	-	-	3.2°/ 50Ft	RNP APCH
060	CF	MC906	-	166 (169.0)	3	-	-	-	-	-	RNP APCH
070	TF	INLER	-	168 (170.4)	-	9.7	-	+3000	190	-	RNP APCH

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	INLER	356 (359.0)	3.5	1/-	R	+3000	-	190	3	RNAV1
HM (3)	VAFRA	038 (041.0)	3.0	N.A.	R	+4500	-	190	3	RNAV1

(1) RNAV system with holding functionality
(2) RNAV system without holding functionality
(3) Direct Entry Only

WAYPOINT LIST

Waypoint Identifier	Coordinates
MC905	45°47’30.48” N – 008°41’19.29” E
MC722	45°44’42.3” 3N – 008°42’06.13” E
MC721	45°42’34.54” N – 008°42’41.54” E
MC906	45°31’40.95” N – 008°45’42.02” E

SBAS FAS DATA BLOCK LIMC RNP Z RWY 17L

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LIMC
Runway	17
Runway Letter	3 (Left)
Approach Performance Designator	0
Route Indicator	Z
Reference Path Data Selector	0
Reference Path Identifier	E17A
LTP/FTP Latitude	453831.3335N
LTP/FTP Longitude	0084348.8470E
LTP/FTP Ellipsoidal Height (metres)	272.6
FPAP Latitude	453656.6995N
Delta FPAP Latitude (seconds)	-94.6340
FPAP Longitude	0084414.9855E
Delta FPAP Longitude (seconds)	26.1385
Threshold Crossing Height	15.0
TCH Units Selector	1 (meters)
Glidepath Angle (degrees)	3.20
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 03 0D 09 0C D1 D0 00 01 37 31 05 4B 62 96 13 DE 21 BF 03 A6 1E AC 1C FD 35 CC 00 2C 81 40 01 64 00 C8 AF C6 16 C6 94
Calculated CRC Value	C616C694

Required Additional Data

ICAO Code	LI
LTP/FTP Orthometric Height (metres)	227.0

Intenzionalmente bianca

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DOC 8168 — ED 6 2014 — AMDT 8
CHANGE: TWR FREQ UPDATED

EGNOS CH 98079 E17B	APP Milano Radar CH 125.630 (CH 132.705) TWR Malpensa TWR 123.600 (128.350) ATIS Malpensa Arrival Information 120.025	AD ELEV 768	L I M C	MILANO/MALPENSA RNP Y RWY 17L

RNP APCH

2047

2000 ft AMSL SFC

P 57

2000 ft AMSL SFC

"G"

CALCINATE DEL PESCE ATZ 2000 ft AMSL SFC

2500 ft AMSL SFC

R 81

VENEGONO ATZ 1500 ft AGL (2500 ft AMSL on Malpensa QNH) SFC

"G"

JAN 20

3° E

IAS MAX 185KT 8.63NM

1616 1565 1619

IF MC722 2800

1507

166° 2.2

MC723 4500

(5) VERGIATE ATZ 500 ft AGL (1400 ft AMSL on Malpensa QNH) SFC "G"

FAF (6) MC721 2200

1139 1206

1154

RF REQUIRED

WARNING:
PILOT SHALL PAY ATTENTION TO COMPLY WITH SPEED RESTRICTIONS FOR MORE DETAILS SEE ENR. 2.1.1.1-4

REMARKS
(1) Fly-over for Holding Pattern only
(2) For uncompensated Baro-VNAV systems:
a. LNAV/VNAV not authorized below -23°C
b. LNAV/VNAV no standard angle of descent above +39°C
3) For RNAV systems without holding functionality
4) For RNAV systems with holding functionality
5) No VFR traffic will be operating within Vergiate ATZ during IFR approaches to RWY 17L.
Helicopter activity in manoeuvring area of Vergiate A/D
HGT MAX 240FT AGL
6) IAS MAX 160kt

4.0<346°

1259

MC724

4.1 166° 997 807

RW17L MAPt (LNAV)

6.2<279°

MMP 5000

892 887 814

837

GALLARATE

P147

BUSTO ARSIZIO

800 ft AGL SFC

TRA 424 — Cameri FL 150 3000Ft AGL

853

WARNING:
PILOT SHALL PAY ATTENTION TO MILITARY AD CAMERI (RWY CONFIGURATION 17/35) 6NM SOUTH-WEST OF THE FIELD. NOT TO BE CONFUSED WITH MILANO/MALPENSA AD WITH SIMILAR RWY CONFIGURATION

BEARINGS TRACKS AND RADIAL ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET
DISTANCES IN NAUTICAL MILES
SCALE 1:250.000

2 0 2 5 NM 5 Km

CAMERI AD

"D"

CAMERI ATZ 3000 ft AMSL SFC

166°

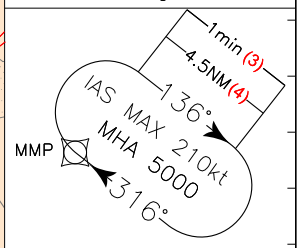
MC906

168° 9.7 To INLER

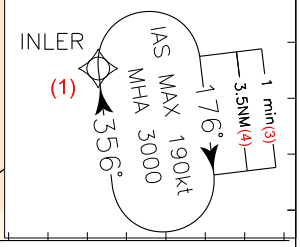
LEGNANO

8°30' 8°40' 8°50' 45° 40' 45° 30'

MMP Holding Pattern



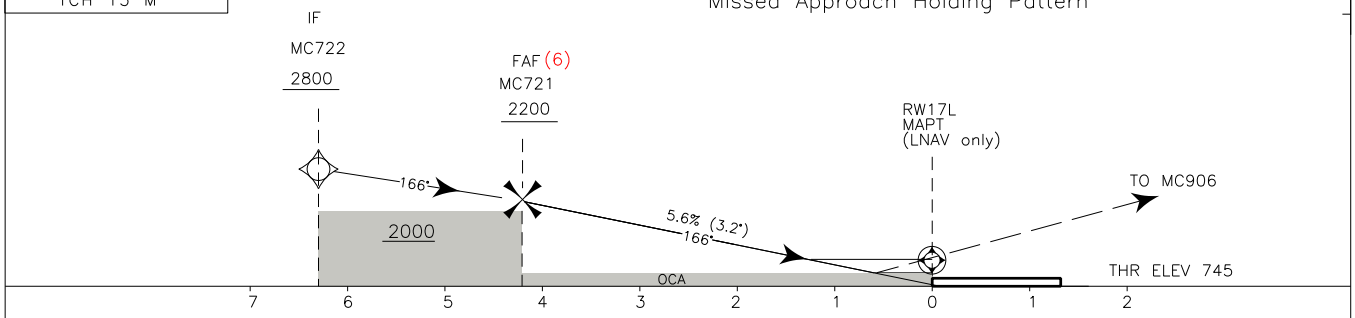
INLER Holding Pattern



TRANSITION ALT 6000

TCH 15 M

MISSED APPROACH: Climbing to 3000FT, continue on course 166° to MC906 then proceed to INLER to join Missed Approach Holding Pattern



OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	LPV (8)	955 (210)	965 (220)	975 (230)	985 (240)
	LNAV/VNAV	1124 (379)	1135 (390)	1147 (402)	1158 (413)
	LNAV	1470 (725)			
CIRCLING (7)		1470 (702)		1650 (882)	1710 (942)

REMARK
(7) Circling allowed only to RWY 17R

(8) Significant obstacle: ACFT in holding bay

FT PER MIN	GS	FAF — MAPt	RWY17L DIST.	ALT (HGT)
		4.1 NM	4.0	2156 (1411)
1010	180	1 : 22	3.0	1816 (1071)
900	160	1 : 32	2.0	1476 (731)
780	140	1 : 46	1.0	1136 (391)
670	120	2 : 03		
560	100	2 : 40		
450	80	3 : 05		

MNM SECT ALT 25NM ARP

10300

TABULAR DESCRIPTION

RNP Y RWY 17L - Instrument Approach Procedure

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	VPA/ TCH	Navigation Specification
010	IF	MMP	-	-	-	/	-	+5000	210	-	RNP APCH
020	TF	MC724	-	279 (282.0)	-	6.2	-	-	-	-	RNP APCH
030	TF	MC723	-	346 (349.0)	-	4.0	-	+4500	185	-	RNP APCH
040	RF Centre:MC005 r=2.75NM	MC722	-	-	-	-	R	+2800	185	-	RNP APCH
050	TF	MC721	-	166 (169.0)	-	2.2	-	+2200	160	-	RNP APCH
060	TF	RW17L	Y	166 (169.0)	-	4.1	-	-	-	3.2°/ 50Ft	RNP APCH
070	CF	MC906	-	166 (169.0)	3	-	-	-	-	-	RNP APCH
080	TF	INLER	-	168 (170.4)	-	9.7	-	+3000	190	-	RNP APCH

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	INLER	356 (359.0)	3.5	1/-	R	+3000	-	190	3	RNAV1
HM	MMP	316 (319.0)	4.5	1/-	R	+5000	-	210	3	RNAV1

(1) RNAV system with holding functionality
(2) RNAV system without holding functionality

WAYPOINT LIST

Waypoint Identifier	Coordinates
MC724	45°39'43.72" N – 008°35':28.77" E
MC723	45°43'39.29" N – 008°34'23.65" E
MC722	45°44'42.33" N – 008°42'06.13" E
MC721	45°42'34.54" N – 008°42'41.54"E
MC906	45°31'40.95" N – 008°45'42.02"
RF Arc Centre Identifier	**Coordinates**
MC005	45°44'10.61" N – 008°38'14.93" E

SBAS FAS DATA BLOCK LIMC RNP Y RWY 17L

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LIMC
Runway	17
Runway Letter	3 (Left)
Approach Performance Designator	0
Route Indicator	Y
Reference Path Data Selector	0
Reference Path Identifier	E17B
LTP/FTP Latitude	453831.3335N
LTP/FTP Longitude	0084348.8470E
LTP/FTP Ellipsoidal Height (metres)	272.6
FPAP Latitude	453656.6995N
Delta FPAP Latitude (seconds)	-94.6340
FPAP Longitude	0084414.9855E
Delta FPAP Longitude (seconds)	26.1385
Threshold Crossing Height	15.0
TCH Units Selector	1 (meters)
Glidepath Angle (degrees)	3.20
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 03 0D 09 0C D1 C8 00 02 37 31 05 4B 62 96 13 DE 21 BF 03 A6 1E AC 1C FD 35 CC 00 2C 81 40 01 64 00 C8 AF 9E 26 7A D3
Calculated CRC Value	9E267AD3

Required Additional Data

ICAO Code	LI
LTP/FTP Orthometric Height (metres)	227.0

Intenzionalmente bianca

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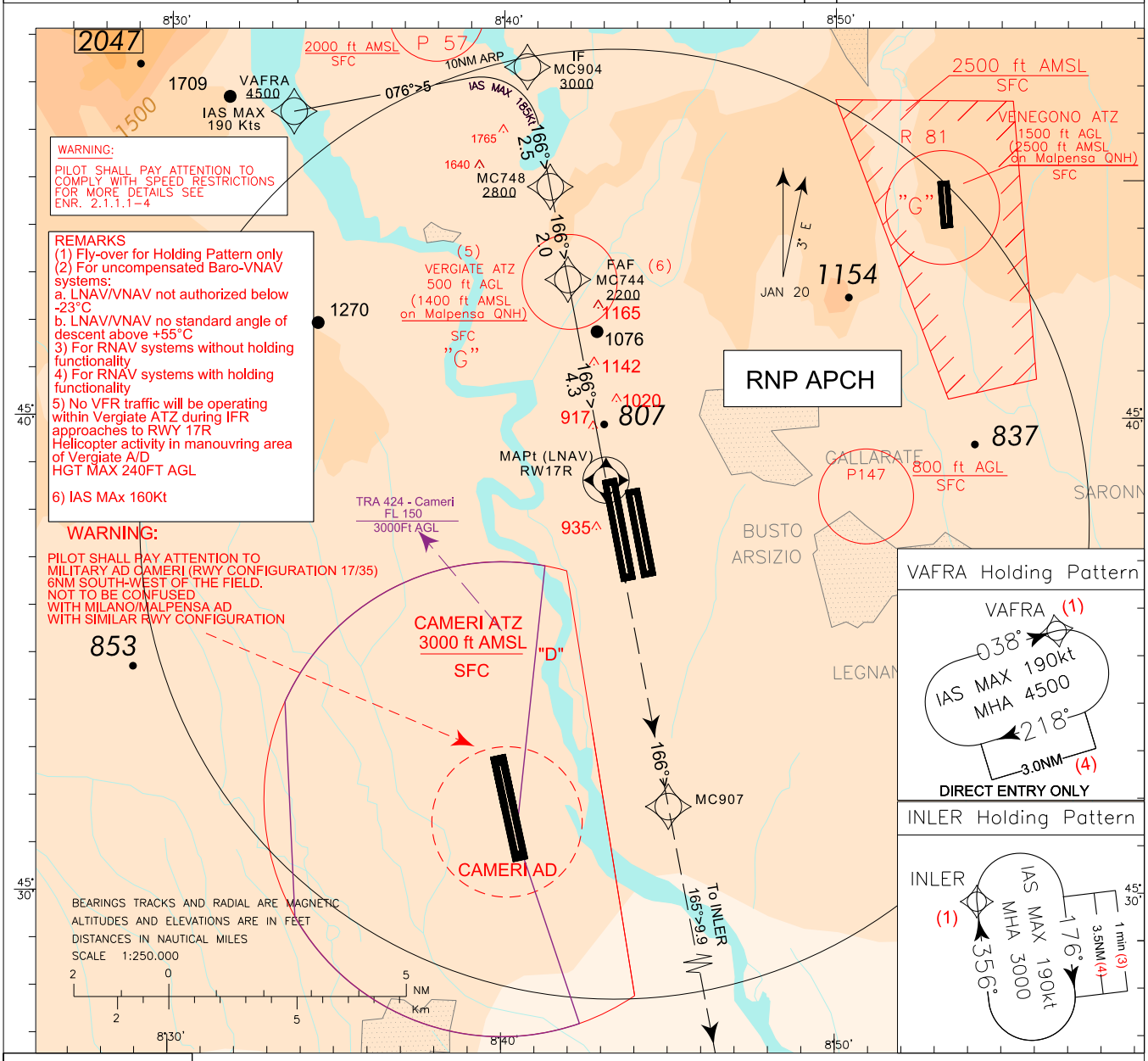
DOC 8168 - ED 6 2014 - AMD 8

CHANGE: MAGNETIC VARIATION UPDATED

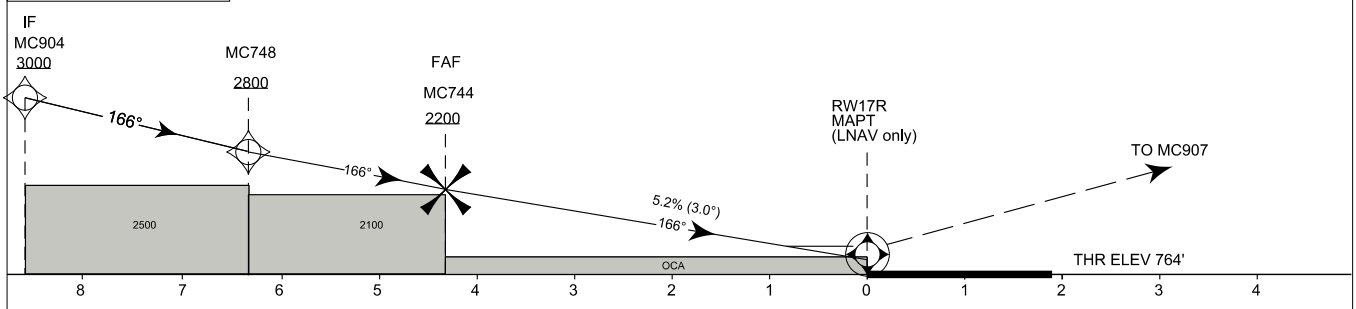
EGNOS CH 47169 E17D	APP *Milano Radar* CH 125.630 (CH 132.705) TWR *Malpensa TWR* 128.350 ATIS *Malpensa Arrival Information* 120.025	AD ELEV 768	L I M C	MILANO/MALPENSA RNP Z RWY 17R



TRANSITION ALT 6000

TCH 15 M

MISSED APPROACH: Climbing to 3000FT, continue to MC907 on course 166° then proceed to INLER on track 165° to join Missed Approach Holding Pattern



OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	LPV	1047 (283)	1059 (295)	1067 (303)	1078 (314)
	LNAV/VNAV	1150 (386)	1162 (398)	1170 (406)	1181 (417)
	LNAV	1420 (646)			

FT PER MIN	GS	FAF - MAPt	RWY17R DIST.	ALT (HGT)
		4.3 NM	4.0	2090 (1326)
1000	180	1 : 26	3.0	1770 (1006)
880	160	1 : 37	2.0	1450 (686)
770	140	1 : 51	1.0	1130 (366)
660	120	2 : 09		
550	100	2 : 34		
440	80	3 : 14		

MNM SECT ALT 25NM ARP

10300

TABULAR DESCRIPTION

RNP Z RWY 17R - Instrument Approach Procedure

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	VPA (°)/ TCH (m)	Navigation Specification
010	IF	VAFRA	-	-	-	-	-	+4500	190	-	RNP APCH
020	TF	MC904	-	076 (079.0)	-	5	-	+3000	185	-	RNP APCH
030	TF	MC748	-	166 (169.0)	-	2.5	R	+2800	185	-	RNP APCH
040	TF	MC744	-	166 (169.0)	-	2.0	-	+2200	160	-	RNP APCH
050	TF	RW17R	Y	166 (169.0)	-	4.3	-	-	-	3.0/ 15.0	RNP APCH
060	CF	MC907	-	166 (169.0)	3	/	-	-	-	-	RNP APCH
070	TF	INLER	-	165 (167.8)	-	9.9	-	+3000	190	-	RNP APCH

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	INLER	356 (359.0)	3.5	1/-	R	+3000	-	190	3	RNAV1
HM (3)	VAFRA	038 (041.0)	3	N.A.	R	+4500	-	190	3	RNAV1

(1) RNAV system with holding functionality
(2) RNAV system without holding functionality
(3) Direct Entry Only

WAYPOINT LIST

Waypoint Identifier	Coordinates
MC904	45°47'25.04"N – 008°40'42.82"E
MC748	45°44'55.73"N – 008°41':24.31"E
MC744	45°42'57.96"N – 008°41'57.01"E
MC907	45°31'51.42"N – 008°45'01.41"E

SBAS FAS DATA BLOCK LIMC RNP Z RWY 17R

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LIMC
Runway	17
Runway Letter	1 (Right)
Approach Performance Designator	0
Route Indicator	Z
Reference Path Data Selector	0
Reference Path Identifier	E17D
LTP/FTP Latitude	453843.6325N
LTP/FTP Longitude	0084307.4120E
LTP/FTP Ellipsoidal Height (metres)	278.5
FPAP Latitude	453638.9885N
Delta FPAP Latitude (seconds)	-124.6440
FPAP Longitude	0084341.8485E
Delta FPAP Longitude (seconds)	34.4365
Threshold Crossing Height	15.0
TCH Units Selector	1 (meters)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 03 0D 09 0C 51 D0 00 04 37 31 05 61 C2 96 13 28 DE BD 03 E1 1E 38 32 FC 09 0D 01 2C 81 2C 01 64 00 C8 AF 45 B6 4C C5
Calculated CRC Value	45B64CC5

Required Additional Data

ICAO Code	LI
LTP/FTP Orthometric Height (metres)	233.0

Intenzionalmente bianca

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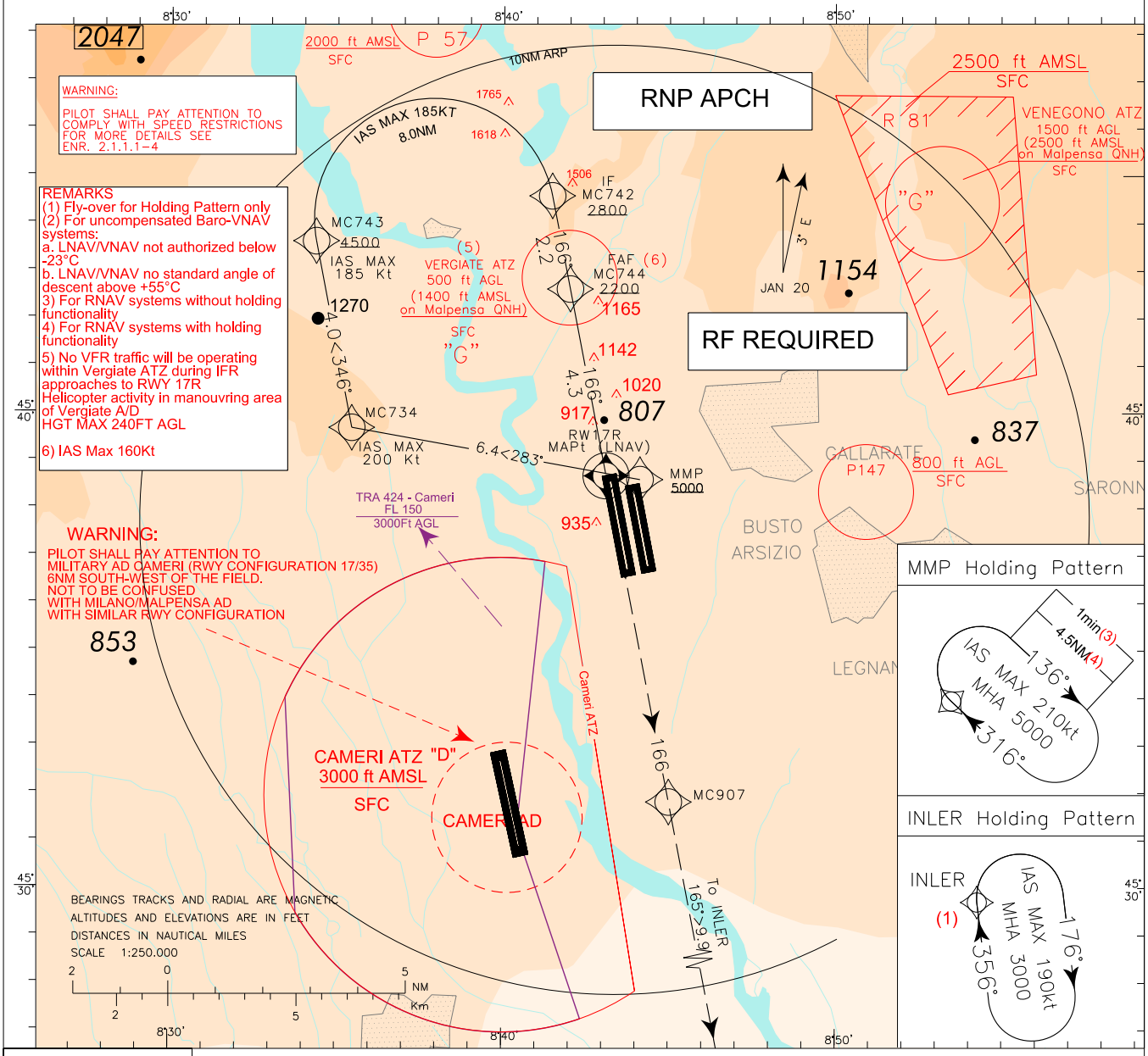
DOC 8168 - ED 6 2014 AMD 8

CHANGE: MAGNETIC VARIATION UPDATED

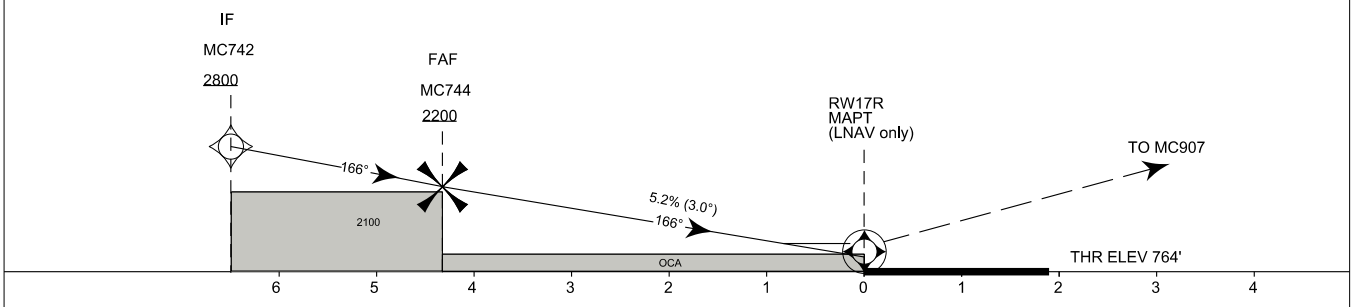
EGNOS CH 83095 E17E	APP *Milano Radar* CH 125.630 (CH 132.705) TWR *Malpensa TWR* 128.350 ATIS *Malpensa Arrival Information* 120.025	AD ELEV 768	LIMC	MILANO/MALPENSA RNP Y RWY 17R



TRANSITION ALT 6000

TCH 15 M

MISSED APPROACH: Climbing to 3000FT, continue to MC907 on course 166° then proceed to INLER to join Missed Approach Holding Pattern



OCA (OCH)		A	B	C	D
STRAIGHT IN APPROACH	LPV	1047 (283)	1059 (295)	1067 (303)	1078 (314)
	LNAV/VNAV	1150 (386)	1162 (398)	1170 (406)	1181 (417)
	LNAV	1420 (646)			

FT PER MIN	GS	FAF - MAPt	RWY17R DIST.	ALT (HGT)
		4.3 NM	4.0	2090 (1326)
1000	180	1 : 26	3.0	1770 (1006)
880	160	1 : 37	2.0	1450 (686)
770	140	1 : 51	1.0	1130 (366)
660	120	2 : 09		
550	100	2 : 34		
440	80	3 : 14		

MNM SECT ALT 25NM ARP

10300

TABULAR DESCRIPTION

RNP Y RWY 17R - Instrument Approach Procedure

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	VPA (°)/ TCH (m)	Navigation Specification
010	IF	MMP	-	-	-	-	-	+5000	-	-	RNP APCH
020	TF	MC734	-	283 (286.2)	-	6.4	-	-	200	-	RNP APCH
030	TF	MC743	-	346 (349.0)	-	4.0	-	+4500	185	-	RNP APCH
040	RF Centre: MC003 R=2.53NM	MC742	-	-	-	-	R	+2800	185	-	RNP APCH
050	TF	MC744	-	166 (169.0)	-	2.2	-	+2200	160	-	RNP APCH
060	-	RW17R	Y	166 (169.0)	-	4.3	-	-	-	3.0/ 15.0	RNP APCH
070	CF	MC907	-	166 (169.0)	3	-	-	-	-	-	RNP APCH
080	TF	INLER	-	165 (167.8)	-	9.9	-	+3000	190	-	RNP APCH

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	INLER	356 (359.0)	3.5	1/-	R	+3000	-	190	3	RNAV1
HM	MMP	316 (319.0)	4.5	1/-	R	+5000	-	210	3	RNAV1

(1) RNAV system with holding functionality
(2) RNAV system without holding functionality

WAYPOINT LIST

Waypoint Identifier	Coordinates
MC734	45°40'13.17"N – 008°35'20.63"E
MC743	45°44'08.73"N – 008°34'15.48"E
MC742	45°45'06.77"N – 008°41':21.24"E
MC744	45°42':57.96"N – 008°41'57.01"E
MC907	45°31':51.42"N – 008°45'01.41"E
Arc Centre Identifier	**Coordinates**
MC003	45°44'37.82"N – 008°37'48.45"E

SBAS FAS DATA BLOCK LIMC RNP Y RWY 17R

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LIMC
Runway	17
Runway Letter	1 (Right)
Approach Performance Designator	0
Route Indicator	Y
Reference Path Data Selector	0
Reference Path Identifier	E17E
LTP/FTP Latitude	453843.6325N
LTP/FTP Longitude	0084307.4120E
LTP/FTP Ellipsoidal Height (metres)	278.5
FPAP Latitude	453638.9885N
Delta FPAP Latitude (seconds)	-124.6440
FPAP Longitude	0084341.8485E
Delta FPAP Longitude (seconds)	34.4365
Threshold Crossing Height	15.0
TCH Units Selector	1 (meters)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 03 0D 09 0C 51 C8 00 05 37 31 05 61 C2 96 13 28 DE BD 03 E1 1E 38 32 FC 09 0D 01 2C 81 2C 01 64 00 C8 AF C8 76 17 5A
Calculated CRC Value	C876175A

Required Additional Data

ICAO Code	LI
LTP/FTP Orthometric Height (metres)	233.0

Intenzionalmente bianca

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