

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> MANCHESTER	<u>AIRPORT ID</u> KMHT	<u>PROCEDURE NAME</u> ILS OR LOC RWY 17	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> MANCHESTER	<u>STATE</u> NH	
<u>AIRPORT ELEVATION</u> 266	<u>TDZE</u> 229	<u>SUPERSEDED</u> ILS OR LOC/DME RWY 17	<u>ORIGINAL/AMENDMENT</u> 2C	<u>DATED</u> 08/17/2017	<u>MAG VAR</u> 15W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-MNA	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 JULY 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
PURBL	IAF	LYLAC		TF	FB	1.00	022.58	6.08	3000
LYLAC		BLSSM		TF	FB	1.00	090.13	4.22	3000
BLSSM		BLUUM		TF	FB	1.00	138.37	3.27	2500
CON VOR/DME	IAF	BLUUM/I-MNA 6.89 DME					177.80	10.61	2500
BLUUM/I-MNA 6.89 DME	IF	ORDIE/I-MNA 3.75 DME					171.52	3.14 (I-MNA)	1600

MISSED APPROACH

MAP:

ILS: DA
 LOC: I-MHT 0.31 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 DIRECT MHT VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 900 THEN CLIMBING LEFT TURN TO 4000 DIRECT CON VOR/DME AND HOLD.

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. PROFILE STARTS AT BLUUM/I-MNA 6.89 DME
3. **FAC:** 171.52 **FAF:** ORDIE/I-MNA 3.75 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 4.05
4. **MIN ALT:** BLUUM/I-MNA 6.89 DME 2500, ORDIE/I-MNA 3.75 DME 1600, SITLE/I-MNA 1.30 DME 800*
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **HAT:** **GS ANT:** 825
6. **MIN GS INCPT:** 1600 **GS ALT AT PFAF** ORDIE/I-MNA 3.75 DME 1600 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.10 **34:1:** **20:1:** **TCH:** 49.1
8. **MSA FROM:** MHT VOR/DME 046-136 2600, 136-226 2000, 226-046 3500



EQUIPMENT REQUIREMENTS NOTES

DME REQUIRED.

PBN REQUIREMENTS NOTE: FROM PURBL: RNAV 1-DME/DME/IRU OR GPS REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

*LOC ONLY

CHART SPEED ICON IN PLANVIEW AT PURBL: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART IN PROFILE: I-MNA DME ANTENNA.

CHART MANDATORY 5000 AT PURBL.

CHART CIRCLING ICON.

CHART IN PLANVIEW: CON VOR/DME

CHART FAS OBST: 397 TREE 425722N/0712710W.

CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW CON VOR/DME, RT, 149.75 INBOUND.

HOLD SE, LT, 337.00 INBOUND

MINIMUMS:**TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT****ALTERNATE:** NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 900-2 3/4

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-ILS 17	429	1800	200	429	1800	200	429	1800	200	429	1800	200			
S-LOC 17	660	2400	431	660	2400	431	660	4000	431	660	4000	431			
CIRCLING	880	1	614	880	1	614	980	2	714	1100	2 3/4	834			

CHANGES - REASONS

1. AMENDED PROCEDURE NAME FROM ILS OR LOC/DME RWY 17 TO ILS OR LOC RWY 17 - FORMATTED IN ACCORDANCE WITH FAAO 8260.3C, PARA 1-6-2.
2. DELETED ALL REFERENCES TO NASHUA BACK-UP ALTIMETER SETTING - WHEN AMDT 2 WAS BEING PROCESSED IN 2015, THERE WAS A POSSIBILITY THAT MHT CONTROL TOWER WOULD OPERATE LESS THAN 24 HOURS. EASTERN FPT ADVISES THAT REDUCED HOURS ARE NO LONGER BEING CONSIDERED. TOWER HAS REDUNDANT WEATHER SOURCES SO A BACK-UP ALTIMETER SOURCE IS NOT REQUIRED.
3. DELETED GPS REQUIRED NOTE AT PURBL - REPLACED BY PBN REQUIREMENT NOTE.
4. DELETED PLANVIEW NOTE DME OR RADAR REQUIRED - REPLACED BY EQUIPMENT AND PBN REQUIREMENT NOTES.
5. ADDED PBN REQUIREMENTS NOTE: FROM PURBL: RNAV 1-DME/DME/IRU OR GPS REQUIRED FOR PROCEDURE ENTRY - FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-8. DME/DME/IRU ADDED PER EASTERN FPT REQUEST (RNAV PRO RUNS ATTACHED TO PROJECT).
6. ADDED EQUIPMENT REQUIREMENT NOTE: DME REQUIRED - FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-8. DME REQUIRED TO RECEIVE INTERMEDIATE FIX.
7. DELETED NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.
8. ADDED NOTE: VGSI AND ILS GLIDESLOPE NOT COINCIDENT (VGSI {ANGLE}/TCH{FEET}) - FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-9(M)1.
9. AMENDED S-LOC 17 CATS C/D VISIBILITY FROM RVR 4500 TO RVR 4000 - COMPUTED IN ACCORDANCE WITH FAAO 8260.3C, TABLE 3-3-1.
10. DELETED ALTERNATE MINIMUMS RESTRICTIONS NA WHEN CONTROL TOWER CLOSED AND NA WHEN LOCAL WEATHER NOT AVAILABLE - NOT NEEDED, MHT OPERATES 24 HOURS AND IS EQUIPPED WITH REDUNDANT WEATHER SOURCES.
11. AMENDED S-ILS 17 ALTERNATE MINIMUMS FROM CAT A/B 700-2, CAT C 800-2, CAT D 900-2 3/4 TO ALL CATS STANDARD - COMPUTED IN ACCORDANCE WITH FAAO 8260.3, PARA 3-4-1A(2).



COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZBW, BOS APP CON, MHT ATCT, AMGR, ATA

FLIGHT CHECKED BY

Digitally signed by

ROBERT G HAMILTON

Jun 11, 2018

OFFICE

FICO

DATE

5/10/18

DEVELOPED BY

Digitally signed by
PETER R GUIMOND
Mar 06, 2018

OFFICE

AJV-5422

DATE

03/06/2018

APPROVED BY

JULIE MORGAN

Digitally signed by

ROBERT G HAMILTON

Jun 11, 2018

OFFICE

AJV-5420

DATE

TITLE

MANAGER