

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM	TO			COURSE AND DISTANCE			ALTITUDE			LPV: DA LNAV/VNAV: DA LNAV: RW23 CLIMB TO 2000 DIRECT TEWKES AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, LT, 053.08 INBOUND. CHART FAS OBST: 395 TREE 424358N/0710537W DISTANCE TO THLD FROM 418 HAT: 1.14 NM. CHART VDP AT 1.20 NM TO RW23* *LNAV ONLY. WAAS CHANNEL # 61022 REFERENCE PATH ID: W23A CHART CIRCLING ICON. LTP HAE: 13.5 M					
MHT VOR/DME	WIPNO (TF) (FB) (RNP 2.00)			076.52 / 14.39			2100								
RAYMY	WIPNO (TF) (FB) (RNP 2.00)			179.44 / 4.84			2100								
WITCH	TUNUY (TF) (FO) (RNP 2.00)			352.80 / 11.13			2100								
WIPNO (IAF)	TUNUY (NOPT) (TF) (FB) (RNP 1.00)			163.21 / 9.00			2100								
PSM VOR/DME (IAF)	TUNUY (NOPT) (TF) (FB) (RNP 1.00)			219.61 / 15.13			2100								
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NE TUNUY, RT, 233.28 INBOUND, 2100 FT. IN LIEU OF PT (IAF) 3. FAC: 233.21 FAF: _____ DIST FAF TO MAP: 3.68 THLD: 3.68 4. MIN. ALT: TUNUY 2100, WUMUP 1400 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1400 GS ALT AT: WUMUP 1400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.10 TCH: 54.0 34:1 IS NOT CLEAR 8. MSA FROM: RW23 2600															
										MAG VAR: 15W EPOCH YEAR: 1980					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @						
CATEGORY >>>>>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	562	1 3/8	418	562	1 3/8	418	562	1 3/8	418	562	1 3/8	418			
LNAV/VNAV DA	746	2	602	746	2	602	746	2	602	746	2	602			
LNAV MDA	660	1	516	660	1	516	660	1 3/8	516	660	1 3/8	516			
CIRCLING	740	1	592	740	1	592	840	2	692	1220	3	1072			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F). @ CAT D 1100-3 CHART NOTE: CIRCLING RWY 32 NA AT NIGHT. CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 148 TDZE: 144		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
LAWRENCE, MA		AIRPORT NAME: LAWRENCE MUNI				RNAV (GPS) RWY 23, AMDT 1, 10/12/2017				AMDT: ORIG-A					
										DATED 10/17/2013					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
WURIV (IAF)	TUNUY (NOPT) (TF) (FB) (RNP 1.00)	303.41 / 9.00	2100
TUNUY (IF/IAF)	WUMUP (TF) (FB) (RNP 1.00)	233.28 / 6.51	1400
WUMUP (FAF)	RW23 (MAP) (TF) (FO) (RNP 0.30)	233.21 / 3.68	
RW23 (MAP)	548 MSL (CA)	233.21	
548 MSL	TEWKS (DF) (FO) (RNP 1.00)		2000

NOTES, (CONT.):

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

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MHT VOR/DME ON V141 SOUTHBOUND.

QUALITY
18
CHECKED

CITY AND STATE

LAWRENCE, MA

ELEVATION: 148

TDZE: 144

AIRPORT NAME:

LAWRENCE MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 23, AMDT 1, 10/12/2017

SUP:

AMDT: ORIG-A

DATED: 10/17/2013

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLWM
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	424317.3145N
LTP/FTP LONGITUDE	0710703.4390W
LTP/FTP ELLIPSOIDAL HEIGHT	+00135
FPAP LATITUDE	424207.2465N
FPAP LONGITUDE	0710818.1300W
THRESHOLD CROSSING HEIGHT (TCH)	00054.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1232
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 64FD4FA1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00408
FPAP ORTHOMETRIC HEIGHT	+00408

QUALITY
18
CHECKED

CITY AND STATE LAWRENCE, MA	ELEVATION: 148 AIRPORT NAME: LAWRENCE MUNI	TDZE: 144 LAWRENCE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1, 10/12/2017	SUP:
					AMDT: ORIG-A
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