

**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.

<b><u>AIRPORT</u></b> GENERAL EDWARD LAWRENCE LOGAN INTL	<b><u>AIRPORT ID</u></b> KBOS	<b><u>PROCEDURE NAME</u></b> ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	<b><u>ORIGINAL/AMENDMENT</u></b> 11	<b><u>CITY</u></b> BOSTON	<b><u>STATE</u></b> MA
<b><u>AIRPORT ELEVATION</u></b> 19	<b><u>TDZE</u></b> 18	<b><u>SUPERSEDED</u></b> ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	<b><u>ORIGINAL/AMENDMENT</u></b> 10D	<b><u>DATED</u></b> 03/29/2018	<b><u>MAG VAR</u></b> 15W
<b><u>FACILITY</u></b> I-BOS	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b> 26 MARCH 2020	<b><u>REQUIRED EFFECTIVE DATE</u></b> ROUTINE	<b><u>CANCEL/SUSPEND</u></b>	<b><u>EPOCH YEAR</u></b> 2020

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
GOSHI	IAF	WINNI		TF	FB	1.00	035.59	5.14	4000
WINNI/I-BOS 16.90 DME/RADAR	IF	NABBO/I-BOS 11.93 DME/RADAR					034.74	4.97 (I-BOS)	3000
NABBO/I-BOS 11.93 DME/RADAR		MILTT/I-BOS 6.93 DME/RADAR					034.74	5.00 (I-BOS)	1700

**MISSED APPROACH**

**MAP:**

ILS: DA

LOC: 5.12 NM AFTER MILTT/I-BOS 6.93 DME/RADAR OR AT I-BOS 1.81 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 ON BOS VOR/DME R-030 TO WAXEN INT BOS 14.04 DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 3000 ON HEADING 035 AND MHT VOR/DME R-145 TO WAXEN/MHT 26.42 DME AND HOLD (DME REQUIRED).



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA

**PROFILE:**

1. **PT**      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF (IAF)**

2. PROFILE STARTS AT GOSHI

3. **FAC:** 034.74      **FAF:** MILTT/I-BOS 6.93                      **DIST FAF TO MAP:** 5.12                      **DIST FAF TO THLD:** 5.12  
DME/RADAR

4. **MIN ALT:** GOSHI 6000, WINNI 4000, NABBO 3000, MILTT 1700, IRSEW/I-BOS 3.81 DME/RADAR 700\*

5. **DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **100 HAT:** 940                      **150 HAT:** 1893                      **GS ANT:** 1016

6. **MIN GS INCPT:** 1700                      **GS ALT AT FAF :** MILTT/I-BOS 6.93 DME/RADAR 1700                      **OM:**                      **MM:**                      **IM:**

7. **GP ANGLE:** 3.00                      **34:1:**                      **20:1:**                      **TCH:** 51.2

8. **MSA FROM:** BOS VOR/DME 215-305 2500, 305-215 2000

**EQUIPMENT REQUIREMENTS NOTES:**

RNAV 1-GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY.  
DME OR RADAR REQUIRED.

**NOTES:**

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 4R: CAT A, B, C, D RA 168, RVR 1400, HAT 150, DA 168 MSL.  
CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 4R: CAT A, B, C, D RA 99, RVR 1200, HAT 100, DA 118 MSL.  
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 4R: CAT A, B, C, D RVR 600  
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.  
CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.  
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CAT II, CAT III, AND SA CAT I CHART NOTE: WHEN CONTROL TOWER REPORTS TALL VESSELS IN APPROACH AREA, PROCEDURE NA.  
CAT I CHART NOTE: CIRCLING NA FOR CAT C/D W OF RWYS 4L AND 15R.  
CAT I CHART NOTE: CIRCLING NA TO RWY 14.  
CHART NOTE: \*\*FOR INOPERATIVE ALS INCREASE S-LOC 4R CAT A/B VISIBILITY TO RVR 5500; RWY 4R HELICOPTER VISIBILITY REDUCTION BELOW 4000 RVR NOT AUTHORIZED.  
CHART NOTE: ##WHEN VESSELS TALLER THAN 144 FEET PRESENT, S-ILS 4R NA.  
CHART SPEED ICON IN PLANVIEW AT GOSHI: AT 210 KIAS.

**ADDITIONAL FLIGHT DATA:**

CHART CIRCLING ICON.  
CHART IN PLANVIEW: WAXEN/MHT 26.42 DME  
CHART MANDATORY 6000 AT GOSHI.  
CHART VDP AT 2.92 DME\*  
DISTANCE VDP TO THLD 1.11 NM  
\* LOC ONLY  
FAS OBST: 176 SHIP 422041N/0710053W.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE WAXEN /MHT 26.42 DME, RT, 325.00 INBOUND.  
HOLD NE, LT, 209.99 INBOUND

QUALITY  
18  
CHECKED

**MINIMUMS:**  
**TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT**

**ALTERNATE:** NA ☐ ILS: STANDARD; LOC: CAT A 1000-2, CAT B 1100-2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 04R	218	1800	200	218	1800	200	218	1800	200	218	1800	200			
S-LOC 04R	440	2400	422	440	2400	422	440	4000	422	440	4000	422			
CIRCLING	940	1 1/4	921	1040	1 1/2	1021	620	1 3/4	601	620	2	601			
	## APPROACH MINIMA WHEN CONTROL TOWER REPORTS TALL VESSELS IN APPROACH AREA														
S-ILS 04R	374	4000	356	374	4000	356	374	4000	356	374	4000	356			
S-LOC 04R**	440	4000	422	440	4000	422	440	4000	422	440	4000	422			

**CHANGES - REASONS**

1. ADDED RNAV INITIAL SEGMENT FROM GOSHI TO WINNI - TIE PROCEDURE TO THE ROBUC THREE STAR.
2. CHANGED CHART PLANVIEW NOTE FROM RADAR REQUIRED TO RNAV 1-GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY, DME OR RADAR REQUIRED, AND MOVED TO EQUIPMENT REQUIRMENTS SECTION - IAW 8260.19H PARA 8-6-8.
3. ADDED CHART SPEED ICON IN PLANVIEW AT GOSHI: MAX 210 KIAS - TO MATCH TRANSITION FROM ROBUC THREE ARRIVAL.
4. ADDED CHART MANDATORY 6000 AT GOSHI - TO MATCH TRANSITION FROM ROBUC THREE ARRIVAL.
5. CHANGED CHART NOTE: CIRCLING NA FOR CATS C AND D W OF RWYS 4L AND 15R TO CAT I CHART NOTE: CIRCLING NA FOR CAT C/D W OF RWYS 4L AND 15R - IAW 8260.19H PARA 8-6-9A (5).
6. CHANGED CHART NOTE: CIRCLING NA TO RWY 14 TO CAT I CHART NOTE: CIRCLING NA TO RWY 14 - IAW 8260.19H PARA 8-6-9A (5).
7. ADDED NA WHEN LOCAL WEATHER NOT AVAILABLE TO ALTERNATE MINS - IAW 8260.19H PARA 8-6-11B (4).
8. LOWERED CAT C/D CIRCLING FROM 640/HAA 621 TO 620/HAA 601 - MAJOR AMENDMENT, XP NO LONGER REQUIRED.
9. CHANGED INOP NOTE FROM \*\*FOR INOPERATIVE ALS, INCREASE S-ILS 4R ALL CATS VISIBILITY TO RVR 6000, AND S-LOC 4R CATS A AND B VISIBILITY TO RVR 5000; RWY 4R HELICOPTER VISIBILITY TO \*\*FOR INOPERATIVE ALS INCREASE S-LOC 4R CAT A/B VISIBILITY TO RVR 5500; RWY 4R HELICOPTER VISIBILITY REDUCTION BELOW 4000 RVR NOT AUTHORIZED - NEW VISCHECK.
10. LOWERED CAT A CMDA FROM 960/HAA 941 TO 940/HAA 921 AND CAT B CMDA FROM 1060/HAA 1041 TO 1040/HAA 1021 - MAJOR AMENDMENT, XP NO LONGER REQUIRED.

09/25/2019: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON: 10/04/2018:

1. CHANGED IN NOTES: CHART SPEED ICON IN PLANVIEW AT GOSHI: MAX 210 KIAS TO: CHART SPEED ICON IN PLANVIEW AT GOSHI: AT 210 KIAS.

**COORDINATED WITH:**

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

**FLIGHT CHECKED BY**

STEPHEN BAUER

Digitally signed by **OFFICE**  
**WARDELL HENNING** FICO  
Nov 18, 2019

**DATE**

01/12/2019

**DEVELOPED BY**

WARDELL HENNING (STEVEN SCHUTRUM)

Digitally signed by **OFFICE**  
**WARDELL HENNING** AJV-5430

**DATE**

10/04/2018

**APPROVED BY**

GEORGE DAVIS

Digitally signed by **WARDELL HENNING**  
Nov 18, 2019

**OFFICE**

AJV-5430

**DATE**

**TITLE**  
MANAGER

QUALITY  
18  
CHECKED