

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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 ID</u> KSBN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9L	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> SOUTH BEND	<u>STATE</u> IN		
<u>AIRPORT ELEVATION</u> 798	<u>TDZE</u> 788	<u>SUPERSEDED</u> RNAV (GPS) RWY 9L	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 09/13/2018	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 27 JANUARY 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
MAPER INT		LMSFX		TF	FB	1.00	154.98	15.32	2400
OXI VOR/DME		MRRTE		TF	FB	1.00	014.55	18.02	2400
LMSFX	IAF	WASIK		TF	FB	1.00	181.62	5.60	2400
MRRTE	IAF	WASIK		TF	FB	1.00	001.62	5.60	2400
WASIK	IF	EEJAY		TF	FB	1.00	091.62	6.00	2400
EEJAY	FAF	RW9L	MAP	TF	FO	0.30	091.71	4.94	
RW9L	MAP	2000 MSL		CA			091.71		2000
2000 MSL		LASEA		DF	FO	1.00			2400

MISSED APPROACH

MAP:

LP: RW9L
LNAV: RW9L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 2400 DIRECT LASEA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT WASIK

3. FAC: 091.71

FAF: EEJAY

DIST FAF TO MAP: 4.94

DIST FAF TO THLD: 4.94

4. MIN ALT: WASIK 2400, EEJAY 2400

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS NOT CLEAR

TCH:

8. MSA FROM: RW09L 3000

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 9L HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING RWY 27R NA AT NIGHT.
CHART NOTE: STRAIGHT-IN AND CIRCLING RWY 9L NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MAPER ON V526 NORTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON OXI VOR/DME AIRWAY RADIALS 297 CW 095.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 181.73 INBOUND.
FAS OBST: 979 AAO 414314N/0862420W.
WAAS CHANNEL # 70542
REFERENCE PATH ID: W09A
CHART CIRCLING ICON.
EEJAY TO RW09L: 3.00/39.8.
LTP HAE: 206.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4

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
LP MDA	1240	1	452	1240	1	452	1240	1 3/8	452	1240	1 3/8	452			
LNAV MDA	1240	1	452	1240	1	452	1240	1 3/8	452	1240	1 3/8	452			
CIRCLING	1280	1	482	1280	1	482	1440	1 3/4	642	1500	2 1/4	702			



CHANGES - REASONS

1. ADDED PROFILE CHART NOTE: "VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - NEW VGSI DATA ADDED (3.00/43.6), PROC (3.00/40.0) AND 8260.19I 8-6-9 M (2).
2. CHANGED CHART NOTE FROM "RWY 9L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" TO "RWY 9L HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - 8260.19I 8-6-11 K (3).
3. CHANGED PBN REQUIREMENTS NOTE FROM "RNP APCH" TO "RNP APCH-GPS" - 8260.19I 8-6-8 B.
4. CHANGED LNAV MDA/HAT ALL CATS FROM "1220/432" TO MDA/HAT "1240/452", VIS CAT C/D FROM "1 1/4" TO "1 3/8" - NEW CONTROLLING OBSTACLE AFTER NEW SURVEY NEGATED USE OF FINAL SDF.
5. CHANGED LP MDA/HAT ALL CATS FROM "1200/412" TO MDA/HAT "1240/452", VIS CAT C/D FROM "1 1/8" TO "1 3/8" - NEW CONTROLLING OBSTACLE AFTER NEW SURVEY NEGATED USE OF FINAL SDF.
6. ADDED CHART NOTES: "STRAIGHT-IN AND CIRCLING RWY 9L NA AT NIGHT" AND "CIRCLING RWY 27R NA AT NIGHT" - 20:1 PENETRATIONS TO RWY 9L AND 27R.
7. REMOVED VDP INFO - VDP NA DUE TO 20:1 PENETRATIONS.
8. REMOVED STEPDOWN FIX SEGMENT (CEYYA) - 8260.19I 8-6-7 D (2).
9. ADDED "CHART CIRCLING ICON" - 8260.19I 8-6-10 S.
10. CRC REMAINDER CHANGED FROM "D45525C3" TO "03340BC6" - CHANGE TO FAS DATA THRESHOLD COORDINATES, FPAP COORDINATES, NEW SURVEY.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU ARTCC, SBN ATCT, AMGR, ATA

FLIGHT CHECKED BY

DONALD MCGOUGH

*Digitally signed by***JOHN BORDY**

Nov 22, 2021

OFFICE

FPO

DATE

11/12/2021

DEVELOPED BY

ARTHUR ULVESTAD

*Digitally signed by***JOHN BORDY**

Nov 22, 2021

OFFICE

AJV-A422

DATE

09/16/2021

APPROVED BY

MARLON ROBINSON

*Digitally signed by***JOHN BORDY**

Nov 22, 2021

OFFICE

AJV-A420

DATE**TITLE**
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSBN
RUNWAY	RW09L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A
LTP/FTP LATITUDE	414250.1925N
LTP/FTP LONGITUDE	0861943.6000W
LTP/FTP ELLIPSOIDAL HEIGHT	+02064
FPAP LATITUDE	414252.0765N
FPAP LONGITUDE	0861744.6565W
THRESHOLD CROSSING HEIGHT (TCH)	00039.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1440
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	03340BC6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02402
FPAP ORTHOMETRIC HEIGHT	+02402