

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> KSBX	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 5	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>CITY</u> SHELBY	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 3443	<u>TDZE</u> 3427	<u>SUPERSEDED</u> RNAV (GPS) RWY 5	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 03/02/2017	<u>MAG VAR</u> 15E	<u>EPOCH YEAR</u> 2005
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 7 SEPTEMBER 2023	<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>
BRADZ		DOTVE		TF	FB	1.00	325.31	11.01	9000
PENRY		DOTVE		TF	FB	1.00	007.17	16.20	9000
WEBVO		CAVBU		TF	FO	1.00	241.94	28.79	9000
DOTVE		CAVBU		TF	FO	1.00	325.24	7.70	9000
CTB VOR/DME		CAVBU		TF	FO	1.00	117.17	10.05	9000
CAVBU	IF/IAF	IXIPE		TF	FB	1.00	049.75	7.00	5100
IXIPE	FAF	UZOHU/2.70 NM TO RW05		TF	FB	0.30	049.87	2.44	
UZOHU/2.70 NM TO RW05		RW05	MAP	TF	FO	0.30	049.87	2.70	
RW05	MAP	3733 MSL		CA			049.87		
3733 MSL		YENUP		DF	FO	1.00			9000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW05

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 9000 DIRECT YENUP AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD SW CAVBU, RT, 049.75 INBOUND, 7000 FT. IN LIEU OF PT (IAF), MAX 14000.

3. FAC: 049.87FAF: IXIPEDIST FAF TO MAP: 5.14DIST FAF TO THLD: 5.14

4. MIN ALT: CAVBU 7000, IXIPE 5100, UZOHU/2.70 NM TO RW05 4300

5. DIST TO THLD FROM OM:MM:IM:150 HAT:306 HAT: 0.85GS ANT:

6. MIN GP INCPT: 5100GP ALT AT PFAF : IXIPE 5100OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 45.0

8. MSA FROM: RW05 8200

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CUT BANK ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CUT BANK ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
HOLD NE, RT, 230.19 INBOUND.
CHART FAS OBST: 3428 TRAVERSE_WAY (30-027566) 483217N/1115248W.
3859 AAO 482912N/1115933W.
CHART VDP AT 1.10 NM TO RW05.
WAAS CHANNEL # 69630
REFERENCE PATH ID: W05A
LTP HAE: 1027.2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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
LPV DA	3733	1	306	3733	1	306	3733	1	306	3733	1	306		QUALITY 10 CHECKED	
LNAV/VNAV DA	3783	1	356	3783	1	356	3783	1	356	3783	1	356			
LNAV MDA	3800	1	373	3800	1	373	3800	1	373	3800	1	373			
CIRCLING	4020	1	577	4080	1	637	4100	1 3/4	657	4220	2 1/2	777			

CHANGES - REASONS

- 1: UPDATED FEEDER ROUTES RNP VALUE FROM: 2.0 TO: 1.0 - 8260.58B 3-1-2 TABLE 1-2-1.
2: PROFILE LINE 4: REMOVED "" - NO LONGER REQUIRED.
3: PROFILE LINE 5: ADDED 306 HAT: 0.85 - 8260.19I 8-6-7 E(3).
4: PROFILE LINE 7: ADDED 20:1 IS CLEAR - NO 20:1 PENETRATIONS.
5: ADDED RNP APCH - GPS TO PBN REQUIREMENT NOTES; REMOVED DME/DME RNP-0.3 NA - 8260.19I 8-6-8 B(2).
6: DELETED CHART NOTE: NIGHT LANDING: RWY 23 NA - 20:1 IS CLEAR.
7: CHANGED CHART NOTE: FROM: BARO-VNAV NA TO: BARO-VNAV AND VDP NA WHEN USING CUT BANK ALTIMETER SETTING - PRIMARY ALTIMETER ESTABLISHED; 8260.19I 8-6-9 E(8)&(9).
8: UPDATED CHART PROFILE NOTE: FROM: VGSI AND RNAV GLIDEPATH NOT COINCIDENT TO: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - 8260.19I 8-6-9 M (1).
9: ADDED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C - 8260.19I 8-6-9 R.
10: DELETED *LNAV ONLY - NO LONGER REQUIRED.
11: CHANGED BACK UP ALTIMETER NOTE FROM: USE CUT BANK ALTIMETER SETTING, IF NOT RECEIVED USE GREAT FALLS ALTIMETER SETTING AND INCREASE ALL DA 81 FEET AND ALL MDA 100 FT; INCREASE LPV ALL CATS VISIBILITY 1/4 MILE, LNAV/VNAV ALL CATS VISIBILITY 5/8 MILE, LNAV CATS C/D, AND CIRC CAT C/D VISIBILITIES 1/4 MILE TO: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CUT BANK ALTIMETER SETTING - PRIMARY ALTIMETER ESTABLISHED; MAINTAINED CURRENT MINIMA.
12: ADDITIONAL FLIGHT DATA: DELETED CHART CUT BANK ASOS - PRIMARY ALTIMETER ESTABLISHED.
13: ADDITIONAL FLIGHT DATA: ADDED CHART VDP AT 1.10 NM TO RW05 - 8260.19I 8-6-10 M.
14: ADDED ALTERNATE MINS: STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE - PRIMARY ALTIMETER ESTABLISHED; 8260.19I 8-6-11 B(4).
15: CHANGED LNAV/VNAV VISIBILITY ALL CATS FROM: 1 1/8 SM TO: 1 SM - 8260.3E VISIBILITY TABLE 3-3-1.
16: CHANGED LNAV VISIBILITY CATS C/D FROM: 1 1/8 SM TO: 1 SM - 8260.3E VISIBILITY TABLE 3-3-1.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☐ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLC, GTF FSS, AMGR

FLIGHT CHECKED BY

GARY J VEER

*Digitally signed by***JASON KRETSCHMER**

Jun 27, 2023

OFFICE

FPO

DATE

06/21/2023

DEVELOPED BY

JASON KRETSCHMER (MICAH HILLEY)

*Digitally signed by***JASON KRETSCHMER**

Jun 27, 2023

OFFICE

AJV-A421

DATE

04/19/2023

APPROVED BY

JASON KRETSCHMER

*Digitally signed by***JASON KRETSCHMER**

Jun 27, 2023

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	KSBX
RUNWAY	RW05
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W05A
LTP/FTP LATITUDE	483218.0685N
LTP/FTP LONGITUDE	1115253.1370W
LTP/FTP ELLIPSOIDAL HEIGHT	+10272
FPAP LATITUDE	483255.7400N
FPAP LONGITUDE	1115051.6400W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	0537BF92

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+10418
FPAP ORTHOMETRIC HEIGHT	+10418

