

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
VOR STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.23

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> KAEL	<u>PROCEDURE NAME</u> VOR RWY 17		<u>ORIGINAL/AMENDMENT</u> 1E	<u>CITY</u> ALBERT LEA	<u>STATE</u> MN	
<u>AIRPORT ELEVATION</u> 1261	<u>TDZE</u> 1260	<u>SUPERSEDED</u> VOR RWY 17	<u>ORIGINAL/AMENDMENT</u> 1D	<u>DATED</u> 11/05/2020	<u>MAG VAR</u> 1E	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> AEL	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 AUGUST 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES    THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 23-15.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GOTHE INT		AEL VOR/DME					334.77	8.89	2900
AEL VOR/DME		GROVY/5.00 DME					353.00	5.00	2900
ALMAY INT	IAF	CIBAY/11.00 DME	NOPT				128.00 (HDG) & 173.00	9.72 & 5.57 (AEL R-353)	2900
KASPR INT	IAF	CIBAY/11.00 DME	NOPT				253.00 (HDG) & 173.00	7.22 & 4.12 (AEL R-353)	2900
CIBAY/11.00 DME	IF	GROVY/5.00 DME					173.00	6.00 (AEL R-353)	2900

MISSED APPROACH

MAP:

JULBU/0.36 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 2900 DIRECT AEL VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT    L    SIDE OF COURSE    353.00    OUTBOUND    2900    FT WITHIN    10    MILES OF    GROVY/5.00 DME (IAF)

2.

3. FAC:    173.00    FAF: GROVY/5.00 DME    DIST FAF TO MAP:    DIST FAF TO THLD: 4.64

4. MIN ALT:    GROVY/5.00 DME 2900

8. MSA FROM:    AEL VOR/DME 3400



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: CIRCLING RWY 5, 23 NA AT NIGHT.  
CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AUSTIN ALTIMETER SETTING: INCREASE ALL MDA 60 FEET; INCREASE S-17 CAT C/D VISIBILITY 1/2 SM AND CIRCLING CAT A/C/D VISIBILITY 1/4 SM

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 353.00 INBOUND.  
CHART FAS OBST: 1712 WINDMILL (27-021016) 434622N/0932437W.  
CHART 1709 WINDMILL 434645N/0932453W.  
CHART VDP AT 2.63 DME.  
DISTANCE VDP TO THLD 2.28 NM.  
FAC CROSSES RWY C/L EXTENDED 2909 FT FROM THLD.  
GROVY TO RW17: 3.23/50.

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, 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
S-17	2020	1	760	2020	1	760	2020	2	760	2020	2	760			
CIRCLING	2020	1	759	2020	1 1/4	759	2020	2 1/4	759	2040	2 1/2	779			

CHANGES - REASONS

- 1. TERMINAL ROUTES: REMOVED "INT" FROM FIXES GROVY AND CIBAY - JAY VOR/DME DECOMMISSIONING
  - 2. CHANGED "CIRCLING TO RWY 5/23 NA AT NIGHT" TO "CIRCLING RWY 5, 23 NA AT NIGHT" - IAW 8260.19I PARA 8-6-11(2)(G)
  - 3. CHANGED "VGSI AND DESCENT ANGLES NOT COINCIDENT" TO "VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - IAW 8260.19I PARA 8-6-9M(2)
  - 4. INCORPORATED PNOTAM 1/1817 AMDT 1D
  - 5. ADDED "CHART VDP AT 2.63 DME; DISTANCE VDP TO THLD 2.28 NM." TO ADDITIONAL FLIGHT DATA - VDP NOW PUBLISHABLE IAW 8260.3E 2-6-5, PREVIOUS FINAL SDF WAS REMOVED AMDT 1B.
  - 6. REMOVED DR CNF FIXES FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED.
- 06/30/23: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/11/23.
- 1. CHANGED CHART NOTE FROM "RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 NOT AUTHORIZED" TO "CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED".
  - 2. CHANGED AMENDMENT NUMBER FROM "1C" TO "1D" IN LINE 2 OF BASIC INFORMATION BLOCK.



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<u>COORDINATED WITH:</u> A4A <input type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u> ZMP, AMGR, RST APP CON.				
<u>FLIGHT CHECKED BY</u> PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION		<u>OFFICE</u>	<u>DATE</u>	<i>Digitally signed by</i> <b>JASON KRETSCHMER</b>
<u>DEVELOPED BY</u> ROSE BOONE-WALT	<i>Digitally signed by</i> <b>ROSE BOONE-WALT</b> May 03, 2023	<u>OFFICE</u> AJV-A421	<u>DATE</u> 03/15/2023	Jun 30, 2023
<u>APPROVED BY</u> JASON KRETSCHMER	<i>Digitally signed by</i> <b>JASON KRETSCHMER</b> Jun 30, 2023	<u>OFFICE</u> AJV-A421	<u>DATE</u>	<u>TITLE</u> MANAGER

