

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</u> CHERRY CAPITAL	<u>AIRPORT ID</u> KTVC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> TRAVERSE CITY	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 624	<u>TDZE</u> 624	<u>SUPERSEDED</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 12/07/2017	<u>MAG VAR</u> 5W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 8 NOVEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1985

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>
IROTO		CUBKO		TF	FB	2.00	249.94	38.78	3000
BABBE		FEPEX		TF	FB	2.00	338.60	29.44	3600
CUBKO	IAF	BEAAR	NOPT	TF	FB	1.00	178.66	9.56	3000
FEPEX	IAF	BEAAR	NOPT	TF	FB	1.00	025.22	6.28	3000
BEAAR	IF/IAF	PEETR		TF	FB	1.00	098.50	6.10	2600
PEETR	FAF	RW10	MAP	TF	FO	0.30	098.60	6.04	
RW10	MAP	909 MSL		CA			098.60		
909 MSL		ROPTÉ		DF	FB	1.00			
ROPTÉ		LADIN		TF	FO	1.00	156.81	24.48	4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT ROPTÉ AND ON TRACK 156.81 TO LADIN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. HOLD W BEAAR, RT, 098.50 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 098.60FAF: PEETRDIST FAF TO MAP: 6.04DIST FAF TO THLD: 6.04
4. MIN ALT: BEAAR 3000, PEETR 2600
5. DIST TO THLD FROM OM:MM:IM:150 HAT:285 HAT: 0.73GS ANT:MM:IM:
6. MIN GP INCPT: 2600GP ALT AT FAF : PEETR 2600OM:
7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 52.0
8. MSA FROM: RW10 3600

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IROTO ON V193-320 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BABBE ON V193 SOUTH BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CUBKO ON V133 NORTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FEPEX ON V420 WEST BOUND.
CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV VISIBILITY ALL CATS 1/8 SM.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LNAV/VNAV ALL CATS AND LNAV CATS C/D.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
CHART VDP AT 3.43 NM TO RW10*
*LNAV ONLY
WAAS CHANNEL #42610
REFERENCE PATH ID: W10A
CHART FAS OBST: 1551 TOWER 444521N/0854044W.
HOLD SE, RT, 321.43 INBOUND
LTP HAE: 155.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT A, B 1200-2, CAT C, D 1200-3

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	909	3/4	285	909	3/4	285	909	3/4	285	909	3/4	285			
LNAV/VNAV DA	1983	5	1359	1983	5	1359	1983	5	1359	1983	5	1359			
LNAV MDA	1780	3/4	1156	1780	1	1156	1780	3	1156	1780	3	1156			
CIRCLING	1780	1 1/4	1156	1780	1 1/2	1156	1780	3	1156	1780	3	1156			



CHANGES - REASONS

- 1. CHANGED LPV MINIMUMS VISIBILITY ALL CATS FROM "7/8 SM" TO "3/4 SM" - AIRPORT ADDED MALSR LIGHTING; NEW VISIBILITY CHECKS COMPLETED.
- 2. CHANGED LNAV MINIMUMS VISIBILITY: CAT FROM "1 1/4 SM" TO "3/4 SM"; CAT B FROM "1 1/2 SM" TO "1 SM" - AIRPORT ADDED MALSR LIGHTING; NEW VISIBILITY CHECKS COMPLETED.
- 3. REMOVED CHART NOTE: "DME/DME RNP-0.3 NA" AND REPLACED WITH "PBN REQUIREMENTS NOTE: RNP APCH" - PER .19H EQUIPMENT REQUIREMENTS NOTES.
- 4. REMOVED CHART NOTE: "CIRCLING RWY 18 NA AT NIGHT" - 20:1 PENETRATIONS REMOVED.
- 5. ADDED CHART NOTE: "FOR INOPERATIVE ALS, INCREASE LPV VISIBILITY ALL CATS 1/8 SM" - VISIBILITY MINIMUMS AUTHORIZATION 8260.3C SECTION 3-3, 82660.19H 8-6-11 O (3).
- 6. ADDED CHART NOTE: "INOPERATIVE TABLE DOES NOT APPLY TO LNAV/VNAV ALL CATS AND LNAV CATS C/D" - VISIBILITY MINIMUMS AUTHORIZATION 8260.3C SECTION 3-3, 82660.19H 8-6-11 O (3).



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR, TVC ATCT

FLIGHT CHECKED BY	<i>Digitally signed by</i>	OFFICE	DATE	
GLEN D FREEMAN	ROBERT G HAMILTON	FICO	7/11/18	
	Jul 13, 2018			
DEVELOPED BY	<i>Digitally signed by</i>	OFFICE	DATE	
DEZ SILAGYI (DARREN HOOPER)	ROBERT G HAMILTON	AJV-5421	06/21/2018	
	Jul 13, 2018			
APPROVED BY	<i>Digitally signed by</i>	OFFICE	DATE	TITLE
JULIE MORGAN	ROBERT G HAMILTON	AJV-5420		MANAGER
	Jul 13, 2018			



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTVC
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	444428.2605N
LTP/FTP LONGITUDE	0853527.0925W
LTP/FTP ELLIPSOIDAL HEIGHT	+01556
FPAP LATITUDE	444422.4875N
FPAP LONGITUDE	0853322.3490W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	A50B01E2
ADDITIONAL PATH POINT RECORD INFORMATION	
ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01901
FPAP ORTHOMETRIC HEIGHT	+01901

