

# FLIGHT STANDARDS SERVICE

## COPTER RNAV (GPS) SPECIAL INSTRUMENT APPROACH PROCEDURE

### SPECIFICATION -- NOT FOR COCKPIT USE

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.

If an instrument approach procedure of the above type is conducted at the below named airport, it shall be conducted in accordance with a charted instrument approach procedure predicted on the specifications contained herein, unless an approach is conducted in accordance with a different procedure for such airport authorized by the Administrator. Minimum altitudes shall correspond with those established for enroute operations in the particular area or as set forth below.

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
PROMEDICA HERRICK HOSPITAL	K93MI	COPTER RNAV (GPS) 338	1	TECUMSEH	MI	
<u>AIRPORT ELEVATION</u>	<u>SURFACE ELEVATION</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
	810	COPTER RNAV (GPS) 338	ORIG	04/02/2015	7W	2015
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL SUSPEND</u>		
RNAV			ROUTINE			

#### TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ONNEX	IAF	WARBA		TF	FB	1.00	248.14	3.00	3000
MEDCO	IAF	WARBA		TF	FB	1.00	067.86	3.00	3000
WARBA	IF/IAF	DAMBI		TF	FB	1.00	338.02	3.00	2000
DAMBI	FAF	CABJO	MAP	TF	FO	0.30	338.02	2.00	
CABJO	MAP	1210 MSL		CA			338.02		
1210 MSL		WARBA		DF	FO	1.00			3000

#### MISSED APPROACH

##### MAP:

LNAV: CABJO

##### MISSED APPROACH INSTRUCTIONS:

CLIMBING RIGHT TURN TO 3000 DIRECT WARBA AND HOLD.

##### ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT WARBA

3. FAC:

338.02

FAF: DAMBI

DIST FAF TO MAP: 2.00

DIST FAF TO THLD:

4. MIN ALT: WARBA 3000, DAMBI 2000

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

HAT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1:

20:1:

TCH:

8. MSA FROM: CABJO 3000

PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH

NOTES:

CHART PLANVIEW NOTE: PROCEED VFR FROM CABJO OR CONDUCT THE SPECIFIED MISSED APPROACH.  
CHART PLANVIEW NOTE: LIMIT FINAL AND MISSED APPROACH TO 70 KIAS.  
CHART PLANVIEW NOTE: LIMIT INITIAL AND INTERMEDIATE APPROACH TO 90 KIAS.  
CHART PLANVIEW NOTE: INCREASE TO 90 KIAS UPON REACHING THE MISSED APPROACH ALTITUDE; MAINTAIN 90 KIAS WHILE IN HOLDING.  
CHART NOTE: USE LENAWEE COUNTY ALTIMETER SETTING; WHEN NOT RECEIVED, USE ANN ARBOR ALTIMETER SETTING AND INCREASE MDA 20 FEET.  
CHART NOTE: USE OF PROMEDICA HERRICK HOSPITAL REQUIRES PERMISSION OF THE OWNER; USE OF THIS PROCEDURE REQUIRES SPECIFIC AUTHORIZATION BY FAA FLIGHT STANDARDS.  
CHART NOTE: HELIPAD LIGHTS BY PRIOR ARRANGEMENT

ADDITIONAL FLIGHT DATA:

PROMEDICA HERRICK HOSPITAL, 93MI, 793, 338.02/0.73  
CHART FAS OBST: 1030 AAO 415748N/0835514W.  
HOLD S, RT, 338.02 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☒

CATEGORY:	COPTER														
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
LNAV MDA	1320	3/4	510		NA			NA			NA				



CHANGES - REASONS

- 1. REMOVED ROUTE TYPE DESCRIPTION: A,R AND CABJO TO HELIPAD 6.52/20FT HCH FROM ADDITIONAL FLIGHT DATA - NOT REQUIRED PER 8260.19H
- 2. ADDED PBN REQUIREMENTS NOTE: RNP APCH - REQUIRED PER 8260.19H DOCUMENTATION CRITERIA.
- 3. HAS CHANGED FROM 527 TO 510 IN MINIMUMS - SURFACE ELEVATION CHANGED FROM 793 TO 810
- 4. MSA CHANGED FROM 3100 TO 3000 - BASED ON CONTROLLING OBSTACLE.
- 5. FAS OBSTACLE CHANGED FROM 990 TOWER 415733N/0835425W TO 1030 AAO 415748N/0835514W - BASED ON OBSTACLE DATA BASE AND TERRAIN EVALUATION
- 6. CHANGED CHART PLAINVIEW NOTE FROM "PROCEED VISUALLY FROM CABJO OR CONDUCT THE SPECIFIED MISSED APPROACH" TO "PROCEED VFR FROM CABJO OR CONDUCT THE SPECIFIED MISSED APPROACH - UNABLE TO DETERMINE VISUAL OBSTACLE CLEARANCE DUE TO LACK OF SURVEY DATA.

PDF EDITS:  
- ADDED 810 TO SURFACE ELEVATION  
- CHANGED HAS TO 510 IN MINUMUMS.  
- ADDED STANDARD HELIPORT LIGHTING TO APPROACH AND RUNWAY LIGHTING SYSTEM.  
- ADDED HOSPITAL HELIPORT PER 150-5390-2B TO RUNWAY MARKINGS.



<u>SUBMITTED BY</u>		<u>OFFICE</u>	<u>DATE</u>	
<u>FLIGHT CHECKED BY</u>		<u>OFFICE</u>	<u>DATE</u>	
<u>DEVELOPED BY</u> STEVEN OWNBEY	<i>Digitally signed by STEVE OWNBEY Jan 09, 2018</i>	<u>OFFICE</u> AJV-5412	<u>DATE</u> 01/09/2018	
<u>RECOMMENDED BY</u> GEORGE E. DAVIS		<u>OFFICE</u> AJV-5410	<u>DATE</u>	<u>TITLE</u> MANAGER
<u>APPROVED BY</u>		<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>



FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
PROMEDICA HERRICK HOSPITAL	K93MI	COPTER RNAV (GPS) 338	1	TECUMSEH	MI		RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM ONNEX TO WARBA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	3.00											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.AAO	415636.00N/0835257.00W		910	50	20	2C	1000				AT1090	3000
2.TERRAIN	415636.00N/0835257.00W		710 (700)								AS1500	2200

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:

INITIAL

FROM MEDCO TO WARBA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	3.00											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	415548.00N/0835454.00W		940	50	20	2C	1000				AS1060	3000
4.TERRAIN	415548.00N/0835454.00W		740 (700)								AS1500	2200

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
PROMEDICA HERRICK HOSPITAL	K93MI	COPTER RNAV (GPS) 338	1	TECUMSEH	MI		RNAV

INTERMEDIATE: LNAV

FROM

WARBA (IF/IAF)

TO

DAMBI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	3.00											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
5.AAO	415739.00N/0835430.00W		1020	50	20	2C	500				AT480	2000
6.TERRAIN	415739.00N/0835430.00W		820 (800)								AS1000	1800

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT  
REMARKS:

FINAL: LNAV

FROM

DAMBI

TO

CABJO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	2.00		CABJO	1320								
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
7.AAO	415748.10N/0835513.63W		1030	50	20	2C	250				RA25	1320

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT  
REMARKS:



RNAV

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
PROMEDICA HERRICK HOSPITAL	K93MI	COPTER RNAV (GPS) 338	1	TECUMSEH	MI		RNAV

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS-3	KADG	24/YES	KADG	10.176	Y	25
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS-3	KARB	24/YES	KARB	15.808	Y	43

**WX REMARKS:**  
 RASS PRESSURE PATTERNS THE SAME  
 93MI 793, KADG 798  
 RA=24.11  
 93MI 793, KARB 839  
 RA=42.80

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
STANDARD HELIPORT LIGHTING		HOSPITAL HELIPORT PER 150-5390-2B	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
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**FINAL APPROACH COURSE AIMING**

RUNWAY THRESHOLD	<input type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input type="checkbox"/>	FT FROM CENTERLINE	

**CRITICAL TEMPERATURES**

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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**CRITICAL TEMPERATURE REMARKS:**

**"VISUAL PORTION OF FINAL" PENETRATIONS**

**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or  
**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
  
 PROCEDURE IS PROCEED VFR DUE TO LACK OF SURVEY DATA TO VERIFY OBSTACLE CLEARANCE IN THE VISUAL AREA.  
  
 NO ADDITIONAL AIRSPACE REQUIRED.





<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
PROMEDICA HERRICK HOSPITAL	K93MI	COPTER RNAV (GPS) 338	1	TECUMSEH	MI		RNAV
PART D: AIRSPACE							
DOCKET # NOT REQUIRED							
ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE							
DISTANCE FROM	ARP*	TO 1000FT POINT		1.33			
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT		1.51			
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT		331.02			
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT		830			
DISTANCE FROM	ARP	TO 1500FT POINT		4.60			
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT		4.00			
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT		331.02			
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT		820			
THRESHOLD COORDINATES (IF STR-IN)							
ARP COORDINATES	420006.24N/0835616.83W						
RUNWAY APCH END AND DIST FURTHEST FROM MAP							
FAF COORDINATES	415742.91N/0835430.37W						
FIX NAME COORDINATES							
REMARKS							
NO ADDITIONAL AIRSPACE REQUIRED.							
MAP: CABJO 415927.92N/0835548.35W							
*POINT IN SPACE COPTER RNAV PROCEDURE TO AN INTENDED LANDING AREA. (ARP IS HRP COORDINATES)							



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
PROMEDICA HERRICK HOSPITAL	K93MI	COPTER RNAV (GPS) 338	1	TECUMSEH	MI		RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
STEVEN OWNBEY	AJV-5412	01/09/2018	AERONAUTICAL INFORMATION SPECIALIST

