

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> RAY COMMUNITY	<u>AIRPORT ID</u> 57D	<u>PROCEDURE NAME</u> RNAV (GPS)-A	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> RAY	<u>STATE</u> MI	
<u>AIRPORT ELEVATION</u> 632	<u>TDZE</u>	<u>SUPERSEDED</u> RNAV (GPS)-A	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 JUNE 2019	<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>
IKTIH	IF/IAF	HODPI		TF	FB	1.00	090.65	7.37	2500
HODPI	FAF	OVUHU/2.10 NM TO RW10		TF	FB	0.30	093.95	3.63	
OVUHU/2.10 NM TO RW10		RW10	MAP	TF	FO	0.30	093.95	2.10	
RW10	MAP	2000 MSL		CA			093.95		2000
2000 MSL		HIGIG		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 4000 DIRECT HIGIG AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT IKTIH
- FAC: 093.95 FAF: HODPI DIST FAF TO MAP: 5.73 DIST FAF TO THLD: 5.73
- MIN ALT: IKTIH 2500, HODPI 2500, OVUHU/2.10 NM TO RW10 1340
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: OM: MM: IM:
- MIN GP INCPT: GP ALT AT FAF: OM: MM: IM:
- GP ANGLE: 34:1: 20:1: TCH:
- MSA FROM: RW10 2900



PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.

CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART NOTE: USE TROY ALTIMETER SETTING. WHEN NOT RECEIVED USE PONTIAC ALTIMETER SETTING AND INCREASE ALL MDAS 60 FT.

ADDITIONAL FLIGHT DATA:

CHART OAKLAND/TROY AWOS-3

CHART CIRCLING ICON.

HODPI TO RW10: 3.00/45.

FAS OBST: 739 TREE 424428N/0825347W.

HOLD E, RT, 261.60 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☒

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
CIRCLING	1100	1	468	1220	1	588		NA			NA				

CHANGES - REASONS

1. RUNWAY NUMBER CHANGE: ALL REFERENCES TO RW09 CHANGED TO RW10 - RWY 9/27 CHANGED TO RWY 10/28 PER FPT CHECKLIST.

2. REMOVED DME/DME RNP-0.3 NA AND REPLACED WITH PBN REQUIREMENTS NOTE: RNP APCH - 8260.19H CHANGE 1.

3. CHANGED NOTE FROM 'HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED' TO 'RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED' - IAW 8260.19H, PARA 8-6-11K(3).

4. ADDITIONAL FLIGHT DATA, PLANVIEW NOTE DELETED: RADAR REQUIRED - REMOVED WITH FPT APPROVAL.

COORDINATED WITH:**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** APT MGR, MTC APP CON, ZOB**FLIGHT CHECKED BY**PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED**DEVELOPED BY** *Digitally signed by*
ANDREA CHANEY **ANDREA J CHANEY**

Feb 08, 2019

APPROVED BY
PATRICK MULQUEEN**OFFICE** *Digitally signed by* **DATE**
DAVID TEFFETELLER

Mar 08, 2019

OFFICE **DATE**
AJV-5433 11/05/2018*Digitally signed by*
DAVID TEFFETELLER
Mar 08, 2019**OFFICE** **DATE**
AJV-5430**TITLE**
MANAGERQUALITY
24
CHECKED