

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW12 CLIMB TO 3000 DIRECT DERRE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 308.85 INBOUND. CHART FAS OBST: 936 TREE 423917N/0852113W. 1189 AAO 424333N/0852548W CHART: 1166 TOWER 424300N/0852618W DISTANCE TO THLD FROM 287 HAT: 0.78 NM. WAAS CHANNEL # 53326 REFERENCE PATH ID: W12A CHART CIRCLING ICON. CHART GRAND RAPIDS ASOS. CHART PLANVIEW NOTE: RADAR REQUIRED. LTP HAE: 209.4 M						
BOHRR		BLBBY (TF) (FO) (RNP 2.00)			339.71 / 11.46			3000								
UNSUN		BLBBY (TF) (FO) (RNP 2.00)			277.46 / 20.75			3000								
JAKES (IAF)		BLBBY (NOPT) (TF) (FB) (RNP 1.00)			118.93 / 13.11			3000								
BLBBY (IF/IAF)		AGEYU (TF) (FB) (RNP 1.00)			128.54 / 5.81			2300								
AGEYU (FAF)		EDOG1.90 NM TO RW12 (TF) (FB) (RNP 0.30)			128.62 / 2.69											
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NW BLBBY, RT, 128.54 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 128.62 FAF: AGEYU DIST FAF TO MAP: 4.59 THLD: 4.59 4. MIN. ALT: BLBBY 3000, AGEYU 2300, EDOGE1.90 NM TO RW12 1440* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2300 GS ALT AT: AGEYU 2300 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM: RW12 3000																
										MAG VAR: 6W			EPOCH YEAR: 2015			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A X									
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	1087	1	287	1087	1	287	1087	1	287		NA					
LNAV/VNAV DA	1245	1 1/8	445	1245	1 1/8	445	1245	1 1/8	445		NA					
LNAV MDA	1240	1	440	1240	1	440	1240	1 1/4	440		NA					
CIRCLING	1380	1	580	1420	1	620	1440	1 3/4	640		NA					
NOTES: CHART NOTE: CIRCLING NA TO RWYS 9,18,27 AND 36. CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																
CITY AND STATE HASTINGS, MI				ELEVATION: 800 TDZE: 800 AIRPORT NAME: HASTINGS				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 12, AMDT 2, 03/29/2018				SUP: AMDT: 1A DATED 02/05/2015		

QUALITY
6
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
EDOG/1.90 NM TO RW12	RW12 (MAP) (TF) (FO) (RNP 0.30)	128.62 / 1.90	
RW12 (MAP)	1087 MSL (CA)	128.62	
1087 MSL	DERRE (DF) (FO) (RNP 1.00)		3000

NOTES, (CONT.):

*LNAV ONLY

CHART NOTE: USE GRAND RAPIDS ALTIMETER SETTING; WHEN NOT RECEIVED, USE IONIA ALTIMETER SETTING:
 INCREASE LPV DA TO 1102 FEET; INCREASE LNAV/VNAV DA TO 1260 FEET AND ALL VISIBILITIES 1/8 SM;
 INCREASE ALL MDA 20 FEET AND LNAV VISIBILITY CAT C 1/8 SM.

QUALITY
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CITY AND STATE HASTINGS, MI	ELEVATION: 800	TDZE: 800	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 12, AMDT 2, 03/29/2018	SUP:
	AIRPORT NAME:				AMDT: 1A
	HASTINGS				DATED: 02/05/2015

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	9D9
RUNWAY	RW12
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	423956.6295N
LTP/FTP LONGITUDE	0852106.5295W
LTP/FTP ELLIPSOIDAL HEIGHT	+02094
FPAP LATITUDE	423908.5000N
FPAP LONGITUDE	0851924.8950W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1296
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

C65034DA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02431
FPAP ORTHOMETRIC HEIGHT	+02431

QUALITY
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CITY AND STATE

HASTINGS, MI

ELEVATION: 800

TDZE: 800

AIRPORT NAME:

HASTINGS

 FACILITY
IDENTIFIER:

RNAV

 PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 12, AMDT 2, 03/29/2018

SUP:

AMDT: 1A

DATED: 02/05/2015