

**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 ID</u> C25	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 11	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> WAVERLY	<u>STATE</u> IA		
<u>AIRPORT ELEVATION</u> 992	<u>TDZE</u> 992	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 0W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 31 DECEMBER 2020	<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>
ALO VOR/DME		TAGBE		TF	FO	1.00	312.88	21.22	3000
ARTYS	IAF	TAGBE	NOPT	TF	FB	1.00	047.75	19.41	3000
AREDA	IAF	TAGBE	NOPT	TF	FB	1.00	118.06	9.38	3000
TAGBE	IF/IAF	BAGGG		TF	FB	1.00	106.89	6.09	2600
BAGGG	FAF	RW11	MAP	TF	FO	0.30	107.07	4.91	
RW11	MAP	1287 MSL		CA			107.07		
1287 MSL		JABOD		DF	FO	1.00			3300

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW11

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3300 DIRECT JABOD AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD W TAGBE, RT, 106.89 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 107.07FAF: BAGGGDIST FAF TO MAP: 4.91DIST FAF TO THLD: 4.91

4. MIN ALT: TAGBE 3000, BAGGG 2600

5. DIST TO THLD FROM OM:MM:IM:150 HAT:295 HAT: 0.79GS ANT:

6. MIN GP INCPT: 2600GP ALT AT FAF : BAGGG 2600OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS NOT CLEARTCH: 43.5

8. MSA FROM: RW11 3400

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 11 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
CHART NOTE: BARO-VNAV NA.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ALO VOR/DME AIRWAY RADIALS 353 CW 041.  
CHART NOTE: USE WATERLOO ALTIMETER SETTING.  
CHART NOTE: STRAIGHT-IN AND CIRCLING RWY 11 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

CHART WATERLOO ASOS  
HOLD E, RT, 287.33 INBOUND.  
FAS OBST: 1229 AAO 424517N/0923305W.  
WAAS CHANNEL # 58243  
REFERENCE PATH ID: W11A  
CHART CIRCLING ICON.  
LTP HAE: 270.9 M

MINIMUMS:

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

ALTERNATE: NA ☒

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	1287	1	295	1287	1	295	1287	1	295		NA				
LNAV/VNAV DA	1334	1	342	1334	1	342	1334	1	342		NA				
LNAV MDA	1540	1	548	1540	1	548	1540	1 5/8	548		NA				
CIRCLING	1540	1	548	1620	1	628	1620	1 3/4	628		NA				



**CHANGES - REASONS**

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU ARTCC, ZMP ARTCC, ALO ATCT, AMGR

**FLIGHT CHECKED BY**

JEREMY LEIGHTON

*Digitally signed by*

**JON DENTON**

Nov 17, 2020

**OFFICE**

FICO

**DATE**

11/4/2020

**DEVELOPED BY**

WARDELL HENNING (JAY BAGGETT)

*Digitally signed by*

**JON DENTON**

Nov 17, 2020

**OFFICE**

AJV-A432

**DATE**

08/31/2020

**APPROVED BY**

GEORGE DAVIS

*Digitally signed by*

**JON DENTON**

Nov 17, 2020

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	C25
RUNWAY	RW11
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W11A
LTP/FTP LATITUDE	424435.1225N
LTP/FTP LONGITUDE	0923046.4585W
LTP/FTP ELLIPSOIDAL HEIGHT	+02709
FPAP LATITUDE	424408.8425N
FPAP LONGITUDE	0922850.9235W
THRESHOLD CROSSING HEIGHT (TCH)	00043.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1776
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	812640B5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03025
FPAP ORTHOMETRIC HEIGHT	+03025

