

**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> BROWNSVILLE/SOUTH PADRE ISLAND INTL	<u>AIRPORT ID</u> KBRO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> BROWNSVILLE	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 22	<u>TDZE</u> 20	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 3E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 JANUARY 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
RELAX/20.00 DME		CAMIM		TF	FB	1.00	147.79	25.81	2000
CAMIM	IAF	SAMUE		TF	FB	1.00	216.88	7.99	2000
SAMUE	IF	SHOOL		TF	FB	1.00	299.82	6.50	1700
SHOOL	FAF	DANIO/1.42 NM TO RW31		TF	FB	0.30	312.43	3.66	
DANIO/1.42 NM TO RW31		RW31	MAP	TF	FO	0.30	312.43	1.42	
RW31	MAP	270 MSL		CA			312.43		
270 MSL		FIRTA		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT FIRTA AND HOLD

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
31
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT SAMUE

3. FAC:

312.43

FAF: SHOOL

DIST FAF TO MAP: 5.09

DIST FAF TO THLD: 5.09

4. MIN ALT: SAMUE 2000, SHOOL 1700, DANIO/1.42 NM TO RW31 520*

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

250 HAT: 0.60

GS ANT:

6. MIN GP INCPT:

1700

GP ALT AT FAF : SHOOL 1700

OM:

MM:

IM:

7. GP ANGLE:

3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 60.0

8. MSA FROM: RW31 2600

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 18 NA AT NIGHT.
CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 2°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RELAX ON V163 NORTH BOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

LTP HAE: -15.5 M
*LNAV ONLY
CHART VDP AT 0.91 NM TO RWY31*
CHART CIRCLING ICON.
WAAS CHANNEL #65843
REFERENCE PATH ID: W31A
CHART FAS OBST: 185 WATER_TOWER 255329N/0972326W.
HOLD NW, LT, 132.32 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.



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	270	3/4	250	270	3/4	250	270	3/4	250	270	3/4	250			
LNAV/VNAV DA	270	3/4	250	270	3/4	250	270	3/4	250	270	3/4	250			
LNAV MDA	380	1	360	380	1	360	380	1	360	380	1	360			
CIRCLING	440	1	418	500	1	478	500	1 1/2	478	680	2	658			

CHANGES - REASONS

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZHU, VALLEY APP CON, BRO TOWER, AMGR

<u>FLIGHT CHECKED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	
ALEX KRAUSE	DAVID DANNER	FICO	12/16/19	
	Dec 18, 2019			
<u>DEVELOPED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	
DAVID DANNER (STEVEN DOUGHERTY)	DAVID DANNER	AJV-A421	08/15/2019	
	Dec 18, 2019			
<u>APPROVED BY</u>	<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
MARLON ROBINSON	DAVID DANNER	AJV-A420		MANAGER
	Dec 18, 2019			



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BROWNSVILLE/SOUTH PADRE ISLAND INTL	KBRO	RNAV (GPS) RWY 31	ORIG	BROWNSVILLE	TX

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBRO
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	255353.9785N
LTP/FTP LONGITUDE	0972455.8010W
LTP/FTP ELLIPSOIDAL HEIGHT	-00155
FPAP LATITUDE	255457.6125N
FPAP LONGITUDE	0972605.1810W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0496
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	6E7C6B15

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00061
FPAP ORTHOMETRIC HEIGHT	+00061

