

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: RW13 CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2000 DIRECT FIRTA AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 229 AAO 255700N/0972900W CHART: 460 TOWER 255858N/0973039W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.28 MILES TO RW13* *LNAV ONLY. WAAS CHANNEL # 63231 REFERENCE PATH ID: W13A CHART CIRCLING ICON LTP HAE: -16.4 M					
RELAX		BACAC (FB)		216.93 / 11.27				2000							
BACAC (IAF)		FIRTA (NOPT) (FB)		222.35 / 5.00				2000							
BRO VORTAC		FIRTA (FO)		301.47 / 13.85				2000							
HRL VOR/DME (IAF)		FIRTA (NOPT) (FB)		158.21 / 11.01				2000							
FIRTA (IF/IAF)		SANUE (FB)		132.32 / 6.21				1900							
SANUE (FAF)		RW13 (MAP) (FO)		132.36 / 5.74											
RW13 (MAP)		500 MSL		132.36				500							
500 MSL		FIRTA (FO)						2000							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NW FIRTA, LT, 132.32 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 132.36 FAF: SANUE DIST FAF TO MAP: 5.74 THLD: 5.74 4. MIN. ALT: FIRTA 2000, SANUE 1900 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1900 GS ALT AT: SANUE 1900 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS CLEAR 8. MSA FROM: RW13 2600										MAG VAR: 3E		EPOCH YEAR: 2020			
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @						
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	219	2400	200	219	2400	200	219	2400	200	219	2400	200			
LNAV/VNAV DA	373	3000	354	373	3000	354	373	3000	354	373	3000	354			
LNAV MDA	480	2400	461	480	2400	461	480	5000	461	480	5000	461			
CIRCLING	480	1	458	540	1	518	540	1 1/2	518	680	2	658			
NOTES: CHART NOTE: CIRCLING TO RWY 18 NA AT NIGHT. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 3C (38F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRO VORTAC ON AIRWAY RADIALS 258 CW 329. (CONTINUED ON PAGE 2)															
CITY AND STATE BROWNSVILLE, TX		ELEVATION: 22 TDZE: 19 AIRPORT NAME: BROWNSVILLE/SOUTH PADRE ISLAND INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, ORIG 15 SEPTEMBER 2016				SUP: RNAV (GPS) RWY 13R					
										AMDT: 2A					
										DATED 10/16/2014					

QUALITY
 22
 CHECKED

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE PORT ISABEL ALTIMETER SETTING AND INCREASE LPV DA TO 257 FEET AND LNAV/VNAV DA TO 411 FEET AND ALL MDA 40 FEET; INCREASE LNAV/VNAV VISIBILITY ALL CATS TO RVR 4500, LNAV VISIBILITY CAT C AND D TO RVR 5500.

CHART NOTE: VDP AND BARO VNAV NA WHEN USING PORT ISABEL ALTIMETER SETTING.

CHART PLANVIEW NOTE AT BACAC: MAX 210 KIAS.

CHART PLANVIEW NOTE AT FIRTA: MAX 180 KIAS.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 MILE.

CHART PLANVIEW NOTE: LIMIT MISSED APPROACH TO 245 KIAS.

QUALITY
22
CHECKED

CITY AND STATE

BROWNSVILLE, TX

ELEVATION: 22

TDZE: 19

AIRPORT NAME:

BROWNSVILLE/SOUTH PADRE ISLAND INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 13, ORIG

15 SEPTEMBER 2016

SUP: RNAV (GPS) RWY
13R

AMDT: 2A

DATED: 10/16/2014

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

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBRO
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	255446.1610N
LTP/FTP LONGITUDE	0972552.6935W
LTP/FTP ELLIPSOIDAL HEIGHT	-00164
FPAP LATITUDE	255342.5360N
FPAP LONGITUDE	0972443.3055W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
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)	35.0
 <u>CRC REMAINDER</u>	 35EE7591

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00052
FPAP ORTHOMETRIC HEIGHT	+00052

QUALITY
22
CHECKED

CITY AND STATE BROWNSVILLE, TX	ELEVATION: 22 AIRPORT NAME: BROWNSVILLE/SOUTH PADRE ISLAND INTL	TDZE: 19 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, ORIG 15 SEPTEMBER 2016	SUP: RNAV (GPS) RWY 13R
				AMDT: 2A
				DATED: 10/16/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - 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.		
ARINC SUMMARY - KBRO ROUTES														
TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
BRO	010	BRO	IF	FB								AA 02000	AB 180	V
BRO	020	FIRTA	TF	FO	2.0	301.5						AA 02000		EY
BRO	030	FIRTA	HF	FO		132.3			L					EE A
HRL	010	HRL	IF	FB										V A
HRL	020	FIRTA	TF	FB	1.0	158.2						AA 02000	AB 180	EE B
RELAX	010	RELAX	IF	FB										E
RELAX	020	BACAC	TF	FB	2.0	216.9						AA 02000	AB 210	E A
RELAX	030	FIRTA	TF	FB	1.0	222.4						AA 02000	AB 180	EE B
	010	FIRTA	IF	FB								AA 02000	AB 180	E I
	020	SANUE	TF	FB	1.0	132.3				RW13		AA 01900		E F
	030	RW13	TF	FO	0.3	132.4		3.00				AT 00072		GY M
	040		CA	FB		132.4						AA 00500		M
	050	FIRTA	DF	FO					L			AA 02000	AB 245	EY
	060	FIRTA	HM	FO		132.3			L			AA 02000		EE
POINTS														
POINT NAME			LATITUDE			LONGITUDE								
BRO			N255526.67			W0972230.98								
HRL			N261345.21			W0973908.15								
RELAX			N261529.69			W0972312.66								
BACAC			N260649.36			W0973114.86								
FIRTA			N260317.84			W0973511.84								
SANUE			N255852.01			W0973021.10								
RUNWAYS														
RUNWAY		THRESHOLD LATITUDE			THRESHOLD LONGITUDE			THRESHOLD ELEVATION			PROCEDURE TCH			
RW13		N255446.16			W0972552.69			00017			55			

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