

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

**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	
HIRAS	JUPAR (FB)	236.25 / 35.50	6000	LP: RW20 LNAV: RW20
BRAKR	ZANOG (FB)	146.65 / 15.56	6000	
JUPAR (IAF)	YOVSU (NOPT) (FB)	261.54 / 6.00	6000	CLIMB TO 6000 DIRECT WEMEB AND HOLD.
ZANOG (IAF)	YOVSU (NOPT) (FB)	141.43 / 6.00	6000	
YOVSU (IF/IAF)	WELNI (FB)	201.47 / 6.50	4800	
WELNI (FAF)	RW20 (MAP) (FO)	201.43 / 4.94		ADDITIONAL FLIGHT DATA: HOLD S, RT, 021.32 INBOUND. FAS OBST: 3379 AAO 361720N/1012352W CHART GUYMON ASOS WAAS CHANNEL # 42826 REFERENCE PATH ID: W20A WELNI TO RW20: 3.00/40. LTP HAE: 944.5 M
RW20 (MAP)	3605 MSL	201.43		
3605 MSL	WEMEB (FO)		6000	

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD N YOVSU, RT, 201.47 INBOUND, 6000 FT. IN LIEU OF PT (IAF)
- FAC: 201.43 FAF: WELNI DIST FAF TO MAP: 4.94 THLD: 4.94
- MIN. ALT: YOVSU 6000, WELNI 4800
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: GS ALT AT: OM: MM: IM:
- GS ANGLE: TCH: 34:1 IS NOT CLEAR
- MSA FROM: RW20 5100

MAG VAR: 9E EPOCH YEAR: 1965

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
LP MDA	3720	1	533	3720	1	533									
LNAV MDA	3720	1	533	3720	1	533									
CIRCLING	3720	1	515	3720	1	515									

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART NOTE: USE GUYMON ALTIMETER SETTING, WHEN NOT RECEIVED, USE BORGER ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET.
(SEE FORM 8260-10)



CITY AND STATE GRUVER, TX	ELEVATION: 3205 THRE: 3187 AIRPORT NAME: GRUVER MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMD T NO./EFFECTIVE DATE: RNAV (GPS) RWY 20, ORIG 15 DEC 2011	SUP: AMD T: NONE DATED
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NOTES, (CONT.):

CHART NOTE: PROCEDURE NA AT NIGHT.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRAKR ON V234 NORTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HIRAS ON V210 SOUTHEAST BOUND.

QUALITY
2
CHECKED

CITY AND STATE

GRUVER, TX

ELEVATION: 3205

THRE: 3187

AIRPORT NAME:

GRUVER MUNI

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 20, ORIG

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SUP:

AMDT: NONE

DATED:

**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	E19
RUNWAY	RW20
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W20A
LTP/FTP LATITUDE	361421.4220N
LTP/FTP LONGITUDE	1012541.3860W
LTP/FTP ELLIPSOIDAL HEIGHT	+09445
FPAP LATITUDE	361304.4600N
FPAP LONGITUDE	1012637.1100W
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	1320
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

CRC REMAINDER EA6188EE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+09713
FPAP ORTHOMETRIC HEIGHT	+09713



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	AIRPORT NAME: GRUVER MUNI			AMDT: NONE
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1 2 3 4 5 6 7 8 9 0 1 2 3
PP 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP E19 K4PR20 RW20 001 0000W20A0N3614214220W10125413860+094450300N3613044600W10126371100106751320000400F400000EA6188EE
SUSAP E19 K4PR20 RW20 002E +09713+09713LP 42826

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP E19 K4SRW20 K4PG 0 18018005125 M



CITY AND STATE
GRUVER, TX

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