

INSTRUMENT APPROACH PROCEDURE CHARTS

 **IFR ALTERNATE AIRPORT MINIMUMS**

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS**ALICE, TX**

ALICE INTL (ALI) **LOC/DME Rwy 31¹**
RNAV (GPS) Rwy 13¹
RNAV (GPS) Rwy 31¹
VOR-A²

¹NA when local weather not available.

²Categories A,B, 900-2; Category C, 900-2 $\frac{3}{4}$, Category D, 900-3.

ALPINE, TX

ALPINE-CASPARIS
RGNL (E38) **RNAV (GPS) Rwy 19**
NA when local weather not available.
Category C, 1500-3

AUSTIN, TX

AUSTIN
EXECUTIVE (EDC) **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
NA when local weather not available.

AUSTIN-BERGSTROM

INTL (AUS) **ILS or LOC Rwy 17L¹**
ILS or LOC Rwy 17R¹
ILS or LOC Rwy 35L¹
ILS or LOC Rwy 35R¹
RNAV (GPS) Rwy 17L²
RNAV (GPS) Rwy 17R²
RNAV (GPS) Rwy 35L^{2,3}
RNAV (GPS) Rwy 35R^{2,3}

¹ILS, Category E, 700-2 $\frac{1}{2}$. LOC, Category E, 800-2 $\frac{1}{2}$.

²Category E, 800-2 $\frac{1}{2}$.

³NA when local weather not available.

BRADY, TX

CURTIS FIELD (BBB) **RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
NA when local weather not available.

NAME ALTERNATE MINIMUMS**BROWNSVILLE, TX**

BROWNSVILLE/SOUTH PADRE ISLAND
INTL (BRO) **ILS or LOC Rwy 13R^{1,2}**
LOC BC Rwy 31L¹
RNAV (GPS) Rwy 13R²
RNAV (GPS) Rwy 17²

¹NA when control tower closed.

²NA when local weather not available.

BROWNWOOD, TX

BROWNWOOD
RGNL (BWD) **RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
NA when local weather not available.

BURNET, TX

BURNET MUNI/KATE CRADDOCK
FIELD (BMQ) **RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19
NA when local weather not available.
Category C, 800-2 $\frac{1}{4}$.

COMANCHE, TX

COMANCHE
COUNTY-CITY (MKN) **RNAV (GPS) Rwy 17**
NA when local weather not available.

CORPUS CHRISTI, TX

CORPUS CHRISTI
INTL (CRP) **ILS or LOC Rwy 13¹**
ILS or LOC Rwy 35¹
LOC Rwy 31²
RNAV (GPS) Y Rwy 13²
RNAV (GPS) Y Rwy 31²
RNAV (GPS) Y Rwy 35²
VOR or TACAN Rwy 17²

¹ILS, Category D, 700-2 $\frac{1}{4}$; Category E, 900-3.
LOC, Category D, 800-2 $\frac{1}{4}$; Category E, 900-3.

²Category D, 800-2 $\frac{1}{4}$; Category E, 900-3.



ALTERNATE MINS

M2



NAME ALTERNATE MINIMUMS

COTULLA, TX

COTULLA-LA SALLE
COUNTY (COT) **VOR-A**
NA when local weather not available.

DEL RIO, TX

DEL RIO INTL (DRT) **RNAV (GPS) Rwy 13**
VOR-A¹²
VOR/DME-B¹

NA when local weather not available.
¹NA when Del Rio APP CON closed.
²Category C, 800-2½. Category D, 800-2½.

EL PASO, TX

EL PASO INTL (ELP) **ILS or LOC Rwy 22¹**
RADAR-1²
VOR Rwy 26L²

¹ILS, Category E, 800-2½. LOC, Category E, 800-2½.
²Category E, 800-2½.

FALFURRIAS, TX

BROOKS
COUNTY (BKS) **RNAV (GPS) Rwy 17¹**
RNAV (GPS) Rwy 35

NA when local weather not available.
¹Category D, 800-2½.

FORTHOOD/KILLEEN, TX

ROBERT GRAY
AAF (GRK) **ILS or LOC Rwy 15¹**
ILS or LOC Rwy 33¹
NDB Rwy 15²
RNAV (GPS) Rwy 15³
RNAV (GPS) Rwy 33³

¹ILS, LOC, Category E, 800-2½.
²Category D, 800-2½; Category E, 800-2½.
³Category E, 800-2½.

FORT STOCKTON, TX

FORT STOCKTON-PECOS
COUNTY (FST) **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.
Category D, 800-2½.

FREDERICKSBURG, TX

GILLESPIE
COUNTY (T82) **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR/DME-A

NA when local weather not available.
Category C, 800-2½.

NAME ALTERNATE MINIMUMS

GEORGETOWN, TX

GEORGETOWN
MUNI (GTU) **RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 29
RNAV (GPS) Rwy 36

NA when local weather not available.

HAMILTON, TX

HAMILTON
MUNI (MNZ) **RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36

NA when local weather not available.

HARLINGEN, TX

VALLEY INTL (HRL) **ILS or LOC Rwy 17R¹**
LOC/DME BC Rwy 35L

NA when control tower closed.
¹ILS, Category D, 700-2.

HEBRONVILLE, TX

JIM HOGG
COUNTY (HBV) **RNAV (GPS) Rwy 13**
NA when local weather not available.

HONDO, TX

SOUTH TEXAS RGNL
AT HONDO (HDO) **NDB Rwy 35R**
RNAV (GPS) Rwy 17L
RNAV (GPS) Rwy 35R

NA when local weather not available.

INGLESIDE, TX

TP MC CAMPBELL (TFP) .. **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31

NA when local weather not available.

KERRVILLE, TX

KERRVILLE MUNI/LOUIS
SCHREINER FIELD (ERV) **LOC Rwy 30¹²**
RNAV (GPS) Rwy 12¹³
RNAV (GPS) Rwy 30¹²
VOR-A¹⁴

¹NA when local weather not available.
²Category C, 800-2½.
³Category C, 800-2½; Category D, 800-2½.
⁴Category A,B, 900-2, Category C, 900-2½.

KILLEEN, TX

SKYLARK FIELD (ILE) **RNAV (GPS) Rwy 1**
NA when local weather not available.

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ALTERNATE MINS

M2

SC-3





ALTERNATE MINS

M3



NAME ALTERNATE MINIMUMS

LAMPASAS, TX

LAMPASAS (LZZ) RNAV (GPS) Rwy 34
VOR-A

NA when local weather not available.

LAREDO, TX

LAREDO
INTL (LRD) ILS or LOC/DME Rwy 17R¹³⁴

LOC/DME BC Rwy 35L²³

NDB Rwy 17L²³

RNAV (GPS) Rwy 14²

RNAV (GPS) Rwy 17L²

RNAV (GPS) Rwy 17R²⁴

RNAV (GPS) Rwy 32²⁴

RNAV (GPS) Rwy 35L²

VOR/DME or TACAN Rwy 14²

VOR or TACAN Rwy 32²⁴

¹ILS, Categories A, B, C, D, 700-2; Category E, 800-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when control tower closed.

⁴NA when local weather not available.

LLANO, TX

LLANO MUNI (AQO) RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 35

NA when local weather not available.

MC ALLEN, TX

MC ALLEN MILLER
INTL (MFE) ILS or LOC Rwy 13¹

ILS or LOC Rwy 31¹²

RNAV (GPS) Rwy 31²

VOR Rwy 13¹

¹NA when control tower closed.

²NA when local weather not available.

MIDLAND, TX

MIDLAND
AIRPARK (MDD) RNAV (GPS) Rwy 25

NA when local weather not available.

Category D, 900-3.

MIDLAND INTL (MAF) ILS or LOC Rwy 10¹²

LOC BC Rwy 28²³

RADAR-1⁴

RNAV (GPS) Rwy 10⁵

VOR/DME or TACAN Rwy 34L³

VOR or TACAN Rwy 16R³

¹ILS, LOC, Category E, 800-2½.

²NA when control tower closed.

³Category E, 800-2½.

⁴Category D, 800-2½; Category E, 800-2½.

⁵NA when local weather not available.

NAME ALTERNATE MINIMUMS

NEW BRAUNFELS, TX

NEW BRAUNFELS
MUNI (BAZ) RNAV (GPS) Rwy 13

RNAV (GPS) Rwy 17

RNAV (GPS) Rwy 31

RNAV (GPS) Rwy 35

NA when local weather not available.

ODESSA, TX

ODESSA-SCHLEMEYER
FIELD (ODO) NDB Rwy 20

RNAV (GPS) Rwy 11

RNAV (GPS) Rwy 20

RNAV (GPS) Rwy 29

VOR-A

NA when local weather not available.

PLEASANTON, TX

PLEASANTON
MUNI (PEZ) RNAV (GPS) Rwy 34

NA when local weather not available.

PORT ARANSAS, TX

MUSTANG
BEACH (RAS) RNAV (GPS) Rwy 12

RNAV (GPS) Rwy 30

NA when local weather not available.

PORT ISABEL, TX

PORT ISABEL-CAMERON
COUNTY (PIL) RNAV (GPS) Rwy 13

NA when local weather not available.

ROBERT GRAY AAF(KGRK), TX

FORT HOOD ILS or LOC Rwy 33¹

RNAV (GPS) Rwy 15²

RNAV (GPS) Rwy 33²

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

ROCKPORT, TX

ARANSAS
COUNTY (RKP) RNAV (GPS) Rwy 14¹

RNAV (GPS) Rwy 18¹

RNAV (GPS) Rwy 32¹

RNAV (GPS) Rwy 36¹

VOR/DME or TACAN-A²

¹NA when local weather not available.

²Category C, 800-2½.

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ALTERNATE MINS

M3

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RADAR MINS

12124

RADAR INSTRUMENT APPROACH MINIMUMS

BIGGS AAF (KBIF), TX (Fort Bliss) (Amdt6, 06159 USA)

ELEV 3948

RADAR - 124.15 307.0 ▽ ▲ NA

	RWY	GS/TCH/RPI	CAT	DA/	HAT/	CEIL-VIS
				MDA-VIS	HAA	
ASR ¹	21		AB	4360-½	412	(500-½)
			CD	4360-¾	412	(500-¾)
			E	4360-1	412	(500-1)
CIR ²	21		A	4360-1	412	(500-1)
			B	4400-1	452	(500-1)
			C	4400-1½	452	(500-1½)
			DE	4500-2	552	(600-2)

CAUTION: Steeply rising terrain exceeding 7100' 4 miles W of airport. ¹When ALSF inop, increase CAT E visibility to 1½. ²CAT E circling W of Rwy 3-21 not authorized.

CORPUS CHRISTI NAS (KNGP), (TRUAX FIELD) TX (10266 USN) ELEV 18

RADAR - (E) 6835 134.1 270.8 284.6 337.2 354.8 ▽

	RWY	GS/TCH/RPI	CAT	DH/	HAT/HATH/	CEIL-VIS
				MDA-VIS	HAA	
PAR ¹	13R ²	3.0°/42/773	ABCDE	113-¼	100	(100-¼)
	31L	3.0°/42/817	ABCDE	117-½	100	(100-½)
	17	3.0°/42/771	ABCDE	118-½	100	(100-½)
	35	3.0°/44/813	ABCDE	118-½	100	(100-½)
PAR	13L		ABCDE	320-1	307	(400-1)
SIDESTEP ^{1 5}	31R		ABCDE	400-1¼	383	(400-1¼)
PAR W/O GS ¹	17		ABCDE	300-1¼	282	(300-1¼)
	13R ³		ABCDE	320-1	307	(400-1)
PAR W/O GS	31L		ABCDE	400-1¼	383	(400-1¼)
	35		ABCDE	400-1¼	382	(400-1¼)
	13L		ABCDE	320-1¼	307	(400-1¼)
	31R		ABCDE	400-1¼	383	(400-1¼)
ASR	13L		A	400-1	382	(400-1)
			B	400-1¼	382	(400-1¼)
			C	400-1½	382	(400-1½)
			DE	400-2	382	(400-2)
	13R ⁴		A	480-¾	467	(500-¾)
			B	480-1	467	(500-1)
			C	480-1¼	467	(500-1¼)
			DE	480-1¾	467	(500-1¾)
	17		A	420-1	402	(500-1)
			B	420-1¼	402	(500-1¼)
C			420-1½	402	(500-1½)	
DE			420-2	402	(500-2)	
31R		A	440-1	422	(500-1)	
		B	440-1¼	422	(500-1¼)	
		C	440-1½	422	(500-1½)	
		DE	440-2	422	(500-2)	
31L		A	440-1	423	(500-1)	
		B	440-1¼	423	(500-1¼)	
		C	440-1½	423	(500-1½)	
		DE	440-2	423	(500-2)	

(NARRATIVE CONTINUED ON NEXT PAGE)

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

12124

RADAR MINS

12124

RADAR INSTRUMENT APPROACH MINIMUMS

CORPUS CHRISTI NAS (KNGP)(CON'T), (TRUAX FIELD) TX

RWY	GS/TCH/RPI	CAT	DH/		CEIL-VIS
			MDA-VIS	HAA	
35		A	440-1	422	(500-1)
		B	440-1¼	422	(500-1¼)
		C	440-1½	422	(500-1½)
		DE	440-2	422	(500-2)
4		A	480-1	463	(500-1)
		B	480-1¼	463	(500-1¼)
		C	480-1½	463	(500-1½)
		DE	480-2	463	(500-2)
CIR ⁶	All Rwys	AB	480-1	462	(500-1)
		C	480-1½	462	(500-1½)
		D	580-2	562	(600-2)
		E	620-2¼	602	(700-2¼)

¹No-NOTAM MP: PAR Sat 1200-2000Z++. ²When ALS inop, increase vis CAT ABCDE to ½ mile. ³When ALS inop, increase vis CAT ABCDE to 1¼ mile. ⁴When ALS inop, increase vis CAT A to 1 mile, CAT B to 1¼ mile, CAT C to 1½ mile, CAT DE to 2 miles. ⁵Circling fr Sidestep NA. Sidestep NA prior to 2 miles fr touchdown. ⁶Circling authorized only from ASR and PAR W/O GS. When circling from PAR W/O GS increase CAT AB vis to 1¼ mile.

EL PASO, TX

Amdt. 14, April 8, 2010 (FAA)

ELEV 3959

EL PASO INTL (ELP)

RADAR- 124.25 298.85 ▽ ▲

RWY	GS/TCH/RPI	CAT	DA/		CEIL-VIS	HAT/		CAT	DA/		CEIL-VIS
			MDA-VIS	HAA		HATH/	HAA		HATH/		
ASR	22	ABC	4320/24	371	(400-½)	DE	4320/50	371	(400-1)		
		AB	4380-¾	421	(500-¾)	CD	4380-1¼	421	(500-1¼)		
		E	4380-1½	421	(500-1½)						
4		AB	4400/50	477	(500-1)	C	4400/60	477	(500-1¼)		
		D	4400-1½	477	(500-1½)	E	4400-1¾	477	(500-1¾)		
CIRCLING		A	4420-1	461	(500-1)	B	4460-1	501	(600-1)		
		C	4460-1½	501	(600-1½)	D	4520-2	561	(600-2)		
		E	4660-2½	701	(800-2½)						

Circling NA for CAT E west of Rwy 4-22.

For inoperative MALS, increase S-22 CAT D/E visibility to RVR 6000.

Inoperative table does not apply to S-26L CAT C.

CAUTION: Steeply rising terrain 4.5 NM west of airport.

Lost Communications (All Rwys): As directed by ATC on initial contact.

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

12124

N2

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RADAR MINS

N3

12124

RADAR INSTRUMENT APPROACH MINIMUMS

FORT HOOD/KILLEEN, TX
ROBERT GRAY AAF (GRK)
 RADAR-1 - 120.075 323.15 ∇ \triangle NA

Orig, JAN 12, 2012 (FAA)

ELEV 1015

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
ASR	15		AB	1520/24	505	(600-½)	CDE	1520/55	505	(600-1½)
ASR	33		AB	1460-½	486	(500-½)	CDE	1460-1	486	(500-1)
CIRCLING			AB	1520-1	505	(600-1)	C	1560-1½	545	(600-1½)
			D	1580-2	565	(600-2)	E	1740-2½	725	(800-2½)

Circling NA west of Rwy 15-33.

For inoperative MALSR, increase ASR 15 and ASR 33 Cats C,D, and E visibility to 1¾ mile.

LOST COMMUNICATIONS (All Rwys): As directed by ATC on initial contact.

FORT HOOD/KILLEEN, TX
ROBERT GRAY AAF (GRK)
 RADAR-2 - 120.075 323.15 ∇ \triangle NA

Orig, JAN 12, 2012 (FAA)

ELEV 1015

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR	15	3.00°/51/1062	ABCDE	1215/24	200	(200-½)
PAR	33	3.00°/53/973	ABCDE	1187-½	213	(300-½)

PAR 15-VGSI and PAR glidepath not coincident.

For inoperative MALSR, increase PAR 15 Cat E visibility to RVR 4000 and PAR 33 Cat E visibility to ¾ mile. LOST COMMUNICATIONS (All Rwys): As directed by ATC on initial contact.

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

12124

N3

RADAR MINS

12124

RADAR INSTRUMENT APPROACH MINIMUMS

KINGSVILLE NAS (KNQI), TX (09295 USN)

ELEV 50

RADAR¹ - (E) 128.45x 300.4x 305.2x 310.8x 322.0x 325.2x 358.0x 363.6x 384.4x

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ⁸	35R ²	3.0°/34/623	ABCDE	148-¼	100	(100-¼)
	31L	3.0°/33/596	ABCDE	144-½	100	(100-½)
	31R	3.0°/37/679	ABCDE	145-½	100	(100-½)
	13L	3.0°/35/653	ABCDE	149-½	100	(100-½)
	35L	3.0°/33/618	ABCDE	149-½	100	(100-½)
	13R	3.0°/33/625	ABCDE	150-½	100	(100-½)
	17L	3.0°/35/652	ABCDE	150-½	100	(100-½)
	17R	3.0°/36/684	ABCDE	150-½	100	(100-½)
PAR W/O	31L		ABCDE	320-1¼	276	(300-1¼)
GS ⁸	31R		ABCDE	320-1¼	275	(300-1¼)
	17L		ABCDE	340-1¼	290	(300-1¼)
	17R		ABCDE	340-1¼	290	(300-1¼)
	35R ³		ABCDE	400-¾	352	(400-¾)
	35L		ABCDE	400-1¼	351	(400-1¼)
	13L		ABCDE	420-1¼	371	(400-1¼)
	13R		ABCDE	480-1¼	430	(500-1¼)
ASR	35R ⁴		AB	400-½	352	(400-½)
			CDE	400-¾	352	(400-¾)
	17L		ABC	400-1	350	(400-1)
			DE	400-1¼	350	(400-1¼)
	17R		ABC	400-1	350	(400-1)
			DE	400-1¼	350	(400-1¼)
	31L		ABCD	380-1	336	(400-1)
			E	380-1¼	336	(400-1¼)
	31R		ABCD	380-1	335	(400-1)
			E	380-1¼	335	(400-1¼)
	35L		ABC	400-1	351	(400-1)
			DE	400-1¼	351	(400-1¼)
	13L		AB	500-1	450	(500-1)
			C	500-1¼	450	(500-1¼)
			DE	500-1½	450	(500-1½)
	13R		AB	500-1	450	(500-1)
			C	500-1¼	450	(500-1¼)
			DE	500-1½	450	(500-1½)
CIR ⁵⁶⁷	All Rwys		AB	500-1	450	(500-1)
			C	500-1½	450	(500-1½)
			D	620-2	570	(600-2)
			E	680-2¼	630	(700-2¼)

¹Use landing/taxi lights when conducting apch during VMC. ²When ALS inop, increase vis CAT ABCDE to ½ mile. ³When ALS inop, increase vis CAT ABCDE to 1¼ mile. ⁴When ALS inop, increase vis CAT ABC to 1 mile, CAT DE to 1¼ mile. ⁵CAT E circling not authorized SW of Rwy 13-31. ⁶Circling authorized only from PAR W/O GS and ASR. ⁷For Circling from PAR W/O GS increase CAT AB vis to 1¼ mile. ⁸No NOTAM MP: PAR 1400-1600Z++Mon. Maint conducted next bus day if fld clsd on Mon.

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

12124

N4

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RADAR MINS

12124

RADAR INSTRUMENT APPROACH MINIMUMS

MIDLAND, TX Amdt 5, MAY 20, 1999 (FAA) **ELEV 2871**
MIDLAND INTL (MAF)
 RADAR- 124.6 290.4 ∇ Δ

	RWYGS/TCH/RPI	CAT	DA/	HAT/	CAT	DA/	HAT/
			MDA-VIS	HAA CEIL-VIS		MDA-VIS	HAA CEIL-VIS
ASR	10	ABC	3260 /24	392 (400-½)	DE	3260 /50	392 (400-1)
	34L	AB	3260 -1	403 (400-1)	CD	3260 -1½	403 (400-1½)
	16R	E	3260 -1½	403 (400-1½)	CD	3280 -1½	409 (500-1)
		AB	3280 -1	409 (500-1)			
	28	E	3280 -1½	409 (500-1½)	CD	3280 -1½	423 (500-1½)
		AB	3280 -¾	423 (500-¾)			
	4	E	3280 -1½	423 (500-1½)	C	3300 -1½	450 (500-1)
		AB	3300 -1	450 (500-1)			
	22	DE	3300 -1½	450 (500-1½)	C	3540 -2	687 (700-2)
		AB	3540 -1	687 (700-1)			
CIRCLING		D	3540 -2½	687 (700-2½)	E	3540 -2½	687 (700-2½)
		AB	3540 -1	669 (700-1)	C	3540 -2	669 (700-2)
		D	3600 -2½	729 (800-2½)	E	3600 -2½	729 (800-2½)

Inoperative table does not apply to MAL S-28 for Category C.
 Category D and Category E S-10 visibility increases to RVR 6000 for inoperative MALSR .

SAN ANGELO, TX Amdt. 1A, JUL 29, 2010 (FAA) **ELEV 1917**
SAN ANGELO RGNL/MATHIS FIELD (SJT)
 RADAR-125.35 354.1 ∇ Δ

	RWY GS/TCH/RPI	CAT	DA/	HAT/	CAT	DA/	HAT/
			MDA-VIS	HAA CEIL-VIS		MDA-VIS	HAA CEIL-VIS
ASR	36	AB	2460 -1	543 (600-1)	C	2460 -1½	543 (600-1½)
		D	2460 -1½	543 (600-1½)	E	2460 -2	543 (600-2)
	18	AB	2480 -1	573 (600-1)	C	2480 -1½	573 (600-1½)
		D	2480 -1½	573 (600-1½)	E	2480 -2	573 (600-2)
CIRCLING		AB	2480 -1	563 (600-1)	C	2480 -1½	563 (600-1½)
		D	2480 -2	563 (600-2)	E	2640 -2½	721 (800-2½)

Category E circling NA west of runway 18-36.

WACO, TX Amdt. 1A, FEB 11, 2010 (FAA) **ELEV 592**
MC GREGOR EXECUTIVE (PWG)
 RADAR- 127.65 352.0 ∇

	RWY GS/TCH/RPI	CAT	DA/	HAT/	CAT	DA/	HAT/
			MDA-VIS	HAA CEIL-VIS		MDA-VIS	HAA CEIL-VIS
ASR	17	AB	1020 -1	430 (500-1)	C	1020 -1½	430 (500-1½)
CIRCLING		D	NA		B	1060 -1	468 (500-1)
		A	1040 -1	448 (500-1)	D	NA	
		C	1060 -1½	468 (500-1½)			

SC-3

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

12124

N5

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RADAR MINS

12124


RADAR INSTRUMENT APPROACH MINIMUMS

WACO, TX

Amdt. 4, FEB 11, 2010 (FAA)

ELEV 470

TSTC WACO (CNW)

RADAR- 127.65 227.125 

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
ASR	17L		AB	1080 -½	611 (700-½)	C	1080 -1¼	611 (700-1¼)
			D	1080 -1½	611 (700-1½)			
CIRCLING			AB	1080 -1	610 (700-1)	C	1080 -1¼	610 (700-1¼)
			D	1080 -2	610 (700-2)			

When Waco Regional approach control closed, ASR not authorized.

WACO, TX

Amdt 4, SEP 23, 2010 (FAA)

ELEV 516

WACO RGNL (ACT)

RADAR- 127.65 227.125 

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
ASR	1		ABC	860 -1	351 (400-1)	D	860 -1¼	351 (400-1¼)
	14		AB	920 -1	407 (500-1)	CD	920 -1¼	407 (500-1¼)
	19		ABC	880 /24	376 (400-½)	D	880 /50	376 (400-1)
	32		AB	1020 -1	504 (600-1)	CD	1020 -1½	504 (600-1½)
CIRCLING			AB	1020 -1	504 (600-1)	C	1020 -1¼	504 (600-1¼)
			D	1080 -2	564 (600-2)			

For inoperative MALSR increase S-19 CAT D visibility to RVR 6000.

When control tower closed, ASR NA.

Lost Communications (All Rwy): As directed by ATC on initial contact.

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

12124

N6

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

12152

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned a departure procedure (i.e., ODP, SID, or radar vector) as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME	TAKE-OFF MINIMUMS
------	-------------------

ALICE, TX

ALICE INTL

NOTE: **Rwy 17**, multiple poles beginning 601' from departure end of runway, 413' right to 340' left of centerline, up to 36' AGL/204' MSL. Multiple trees beginning 205' from departure end of runway, 348' left to 317' right of centerline, up to 26' AGL/194' MSL.

Rwy 26, building 797' from departure end of runway, 366' left of centerline, 30' AGL/208' MSL. Tree 812' from departure end of runway, 301' left of centerline, 27' AGL/205' MSL. Rod on OL DME, 715' from departure end of runway, 258' right of centerline, 21' AGL/199' MSL.

Steel post 83' from departure end of runway, 344' right of centerline, 4' AGL/181' MSL. **Rwy 31**, rod on OL DME 388' from departure end of runway, 256' left of centerline, 21' AGL/199' MSL. Tree 439' from departure end of runway, 608' left of centerline, 16' AGL/194' MSL. Steel post 2' from departure end of runway, 251' right of centerline, 164' AGL/181' MSL. Tree 1067' from departure end of runway, 359' right of centerline, 28' AGL/206' MSL. **Rwy 35**, windmill 1461' from departure end of runway, 164' left of centerline, 140' AGL/214' MSL. Bush 330' from departure end of runway, 287' right of runway, 14' AGL/185' MSL.

NAME	TAKE-OFF MINIMUMS
------	-------------------

ALPINE, TX

ALPINE-CASPARIS MUNI

TAKE-OFF MINIMUMS: **Rwys 19, 23**, DAY 1700-2; NIGHT NA.

DEPARTURE PROCEDURE: **Rwy 1**, climb direct BWR

NDB; **Rwys 5, 19, 23**, climbing left turn direct BWR

NDB. **All aircraft** continue climb in holding pattern (Hold N, left turns, 194° inbound) (Maximum holding airspeed 175K) to 7000 before proceeding on course.

AUSTIN, TX

AUSTIN-BERGSTROM INTL

DEPARTURE PROCEDURE: **Rwys 35L, 35R**, climb via heading 353° to 1800 before turning left on course.

NOTE: **Rwy 17L**, trees beginning 498' from departure end of runway, 576' left of centerline, up to 80' AGL/517' MSL. Tree 617' from departure end of runway, 585' right of centerline, 55' AGL/498' MSL. **Rwy 17R**, trees 1007' from departure end of runway, 739' right of centerline, up to 61' AGL/523' MSL. **Rwy 35R**, tree 817' from departure end of runway, 664' right of centerline, 55' AGL/528' MSL.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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AUSTIN, TX (CON'T)

AUSTIN EXECUTIVE (EDC)

ORIG 10210 (FAA)

TAKE-OFF MINIMUMS: **Rwys 16, 34**, NA-Environmental.

NOTE: **Rwy 31**, trees beginning 901' from DER, 258' left of centerline, up to 50' AGL/669' MSL. Utility poles beginning 929' from DER, 370' left of centerline, up to 135' AGL/749' MSL. Utility poles beginning 2326' from DER, 878' right of centerline, up to 105' AGL/704' MSL.

LAKEWAY AIRPARK (3R9)

AMDT 1 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwys 16, 34**, 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 16, 34**, For climb in visual conditions cross Lakeway Airpark airport at or above 1900 MSL before proceeding on course.

NOTE: **Rwy 16**, powerline 303' from departure end of runway, right and left of centerline, 79' AGL/967' MSL. Trees beginning 8243' from departure end of runway, 324' right of centerline, up to 50' AGL/1169' MSL. Road 114' from departure end of runway, right and left of centerline, 15' AGL/954' MSL. Tower 2.11 NM from departure end of runway, 1314' right of centerline, 195' AGL/1326' MSL. Towers starting 1.6 NM from departure end of runway, 4821' left of centerline, up to 150' AGL/1450' MSL. Tree 2085' from departure end of runway, 186' left of centerline, 50' AGL/969' MSL. **Rwy 34**, trees beginning 800' from departure end of runway, 426' left of centerline, up to 50' AGL/1009' MSL. Trees beginning 1374' from departure end of runway, 141' right of centerline, up to 50' AGL/969' MSL. House 499' from departure end of runway, on centerline, 50' AGL/969' MSL.

BALLINGER, TX

BRUCE FIELD (E30)

ORIG 11265 (FAA)

NOTE: **Rwy 17**, trees beginning 1902' from DER, 661' right of centerline, up to 100' AGL/1859' MSL. **Rwy 35**, trees, building, and road beginning 29' from DER, 210' left of centerline, up to 100' AGL/1839' MSL. Tree and poles beginning 887' from DER, 429' right of centerline, up to 37' AGL/1772' MSL.

BEEVILLE, TX

BEEVILLE MUNI

TAKE-OFF MINIMUMS: **Rwys 18, 36**, NA-environmental. **Rwy 30**, 300-2 or std. w/min. climb of 239' per NM to 700.

NOTE: **Rwy 30**, tower 1.5 NM from departure end of runway 2566' right of centerline, 230' AGL/542' MSL.

BIG LAKE, TX

REAGAN COUNTY

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-environmental.

NOTE: **Rwy 16**, road 384' from departure end of runway, 603' right of centerline, 17' AGL/2716' MSL.

BIGGS AAF (KBIF)

FORT BLISS, TX 07130

Rwy 21: Left turn direct to ELP VORTAC, continue climb via R-130 to airway MEA or as directed by ATC. **Rwy 3**: Right turn direct to ELP VORTAC, continue climb via R-130 to airway MEA or as directed by ATC.

BRADY, TX

CURTIS FIELD (BBD)

ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA-Environmental.

NOTES: **Rwy 17**, Light poles, trees, fence, terrain, and vehicle on road beginning 50' from departure end of runway, 362' left of centerline, up to 30' AGL/1827' MSL. Trees beginning 17' from departure end of runway, 216' right of centerline, up to 30' AGL/1818' MSL.

BROWNSVILLE, TX

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

ORIG 11293(FAA)

NOTE: **Rwy 13**, trees and bushes beginning 32' from DER, 399' left of centerline, up to 30' AGL/50' MSL. Trees, bushes, pole and building beginning 751' from DER, 191' right of centerline, up to 44' AGL/64' MSL. **Rwy 17**, trees and pole beginning 56' from DER, 61' left of centerline, up to 53' AGL/78' MSL. Trees and poles beginning 1011' from DER, 96' right of centerline, up to 44' AGL/69' MSL. **Rwy 31**, airplanes on taxiway beginning 371' from DER, 563' right of centerline, up to 45' AGL/64' MSL. Trees beginning 1141' from DER, 567' right of centerline, up to 37' AGL/52' MSL. **Rwy 35**, pole and trees beginning 695' from DER, 140' right of centerline, up to 56' AGL/71' MSL. Trees beginning 719' from DER, 84' left of centerline, up to 63' AGL/78' MSL.

BROWNWOOD, TX

BROWNWOOD RGNL (BWD)

ORIG 11293 (FAA)

NOTE: **Rwy 13**, trees beginning 1523' from DER, 844' right of centerline, up to 47' AGL/1412' MSL. **Rwy 17**, trees beginning 797' from DER, 649' left of centerline, up to 33' AGL/1398' MSL. Trees beginning 691' from DER, 640' right of centerline, up to 31' AGL/1393' MSL. Building 737' from DER, 253' right of centerline, 29' AGL/1391' MSL. **Rwy 35**, trees beginning 77' from DER, 272' left of centerline, up to 49' AGL/1411' MSL. Trees beginning 771' from DER, 282' right of centerline, up to 46' AGL/1418' MSL.

BURNET, TX

BURNET MUNI KATE CRADDOCK FIELD (BMC)

AMDT 1 09351 (FAA)

NOTE: **Rwy 1**, trees and cars beginning 362' from DER, 488' right of centerline, up to 100' AGL/1379' MSL. Trees and cars beginning 274' from DER, 86' left of centerline, up to 100' AGL/1419' MSL. **Rwy 19**, trees beginning 32' from DER, 103' right of centerline, up to 100' AGL/1379' MSL. Trees beginning 188' from DER, 332' left of centerline, up to 100' AGL/1369' MSL.

CARRIZO SPRINGS, TX

DIMMIT COUNTY

DEPARTURE PROCEDURE: **Rwy 31**, climb runway heading to 1200 prior to left turn to avoid 1114' antenna west of airport.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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COLEMAN, TX

COLEMAN MUNI (COM)
ORIG 11069 (FAA)

NOTE: **Rwy 15**, trees beginning 792' from DER, 67' right of centerline, up to 100' AGL/1774' MSL. **Rwy 33**, cranes beginning 1010' from DER, 28' left of centerline, up to 65' AGL/1774' MSL. Cranes beginning 2285' from DER, 13' right of centerline, up to 65' AGL/1774' MSL.

COMANCHE, TX

COMANCHE COUNTY-CITY

TAKE-OFF MINIMUMS: **Rwys 13, 31**, NA-
Environmental.

NOTE: **Rwy 17**, road at departure end of runway, 134' right of centerline, 15' AGL/1394' MSL, road 784' from departure end of runway, 324' right of centerline, 15' AGL/1404' MSL. **Rwy 35**, trees beginning 464' from departure end of runway, across centerline, up to 50' AGL/1429' MSL.

CORPUS CHRISTI, TX

CORPUS CHRISTI INTL (CRP)
AMDT 1 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, 400-2¼ or std. w/ min. climb of 229' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 31**, Climb heading 309° to 1200 before turning westbound.

NOTE: **Rwy 17**, antenna on building 24' AGL/64' MSL, 749' from departure end of runway, 694' left of centerline. **Rwy 35**, tower 401' AGL/423' MSL, 2.21 NM from departure end of runway, 3757' left of centerline.

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

CORPUS CHRISTI, TX. ORIG 08325

TAKE-OFF OBSTACLES: **Rwy 13L**, Powerline, 139' MSL, 3884' from DER, 457' left of centerline. Pylon, 112' MSL, 3304' from DER, 362' right of centerline. Pylon, 112' MSL, 3476' from DER, 1017' right of centerline. Pylon, 110' MSL, 3137' from DER, 299' left of centerline. Pylon, 107' MSL, 3561' from DER, 665' left of centerline. **Rwy 13R**, Powerline, 139' MSL, 4434' from DER, 1208' left of centerline. Pylon, 100' MSL, 3686' from DER, 1050' left of centerline.

COTULLA, TX

COTULLA-LA SALLE COUNTY (COT)
ORIG 07354 (FAA)

NOTE: **Rwy 13**, road 2768' from departure end of runway, 53' left of centerline, 18' AGL/484' MSL. Tree 5520' from departure end of runway, 1764' left of centerline, 50' AGL/480' MSL. Tree 2 NM from departure end of runway, 778' left of centerline, 50' AGL/579' MSL. Tree 1264' from departure end of runway, 93' right of centerline, 50' AGL/499' MSL. Tree 1.3 NM from departure end of runway, 1116' right of centerline, 50' AGL/464' MSL. **Rwy 31**, railroad 2934' from departure end of runway, 153' right of centerline 23' AGL/472' MSL. Tree 1669' from departure end of runway, 66' right of centerline, 50' AGL/499' MSL. Tree 1.2 NM from departure end of runway, 2290' right of centerline, 50' AGL/562' MSL. Terrain beginning 80' from departure end of runway, 428' left of centerline, up to 496' MSL. Terrain 123' from departure end of runway, 379' right of centerline, 496' MSL.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

DEL RIO, TX

DEL RIO INTL

DEPARTURE PROCEDURE: **Rwy 13**, climb to 1500 prior to left turn.

DEVINE, TX

DEVINE MUNI (23R)

AMDT 1 11349 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, 300-1 or std. w/min. climb of 265' per NM to 900.

NOTE: **Rwy 17**, trees beginning 281' from DER, 383' left of centerline, up to 50' AGL/759' MSL. Trees beginning 1145' from DER, 233' left of centerline, up to 50' AGL/779' MSL. **Rwy 35**, trees beginning 4761' from DER, 128' right of centerline, up to 50' AGL/839' MSL.

EAGLE PASS, TX

MAVERICK COUNTY MEMORIAL INTL (5T9)

ORIG 08269 (FAA)

NOTE: **Rwy 13**, vehicle on road 171' from departure end of runway, 393' right of centerline, 15' AGL/894' MSL.

EDINBURG, TX

SOUTH TEXAS INTL AT EDINBURG

TAKE-OFF MINIMUMS: CAUTION: Unmarked balloon and cable to 15000' MSL in R-6317. **Rwy 14**, 276/37.9 NM, **Rwy 32**, 276/38.5 NM.

NOTE: **Rwy 14**, tree 1109' from departure end of runway, 525' right of centerline, 19' AGL/108' MSL. Terrain 20' from departure end of runway, 312' right of centerline, 0' AGL/74' MSL. **Rwy 32**, multiple poles beginning 831' from departure end of runway, 53' right of centerline, up to 32' AGL/111' MSL. Road 640' from departure end of runway, 671' right of centerline, 17' AGL/96' MSL.

EL PASO, TX

EL PASO INTL (ELP)

AMDT 6 11237 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8L, 26R**, NA-
Environmental. **Rwy 26L**, std. w/min. climb of 490' per NM to 6300.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 120° and ELP R-150 to 9000, then proceed on course. **Rwy 8R**, climbing right turn heading 120° and ELP R-150 to 9000, then proceed on course. **Rwy 22**, climbing left turn heading 120° and ELP R-150 to 9000, then proceed on course. **Rwy 26L**, climbing left turn heading 120° and ELP R-150 to 9000, then proceed on course.

NOTE: **Rwy 4**, light poles beginning 1053' from DER, 746' left of centerline, 46' AGL/3986' MSL. **Rwy 26L**, light poles beginning 1249' from DER, 614' left of centerline, 60' AGL/3980' MSL. Windssock 114' from DER, 294' right of centerline, 22' AGL/3942' MSL.

HORIZON (T27)

ORIG 11293 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, NA- ATC.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 077° to 4900 before proceeding on course.

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FALFURRIAS, TX

BROOKS COUNTY (BKS)
AMDT 1 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 32**, 400-2¼ or std. w/ min. climb of 249' per NM to 600. **Rwy 35**, std. w/ min. climb of 250' per NM to 800, or 500-3 w/ min. climb of 242' per NM to 800, or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 35**, for climb in visual conditions: cross Brooks County Airport at or above 900 MSL before proceeding on course.

NOTE: **Rwy 14**, vehicle on road, 29' from DER, 499' left of centerline, 15' AGL/129' MSL. Trees beginning 149' from DER, 523' left of centerline, up to 40' AGL/154' MSL. Trees beginning at DER, 415' right of centerline, up to 40' AGL/149' MSL. **Rwy 17**, vehicle on road, at DER, 364' left of centerline, 15' AGL/119' MSL. Trees beginning 15' from DER, 331' right of centerline, up to 40' AGL/149' MSL. Trees beginning 165' from DER, 126' left of centerline, up to 17' AGL/129' MSL. **Rwy 32**, road and trees beginning 587' from DER, 35' right of centerline, up to 40' AGL/149' MSL. Tower 1.9 NM from DER, 987' left of centerline, 298' AGL/418' MSL. **Rwy 35**, vehicle on road, at DER, 360' right of centerline, 15' AGL/118' MSL. Tree 1010' from DER, 278' right of centerline, 29' AGL/138' MSL. Tower 2.6 NM from DER, 426' right of centerline, 414' AGL/539' MSL.

FORT HOOD, TX

ROBERT GRAY AAF

NOTE: **Rwy 33**, pole 974' from departure end of runway, 746' left of centerline, 35' AGL/1050' MSL. Pole 1121' from departure end of runway, 746' left of centerline, 33' AGL/1048' MSL.

FORT STOCKTON, TX

FORT STOCKTON-PECOS COUNTY (FST)
ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7, 11, 16, 25, 29, 34**, NA-Environmental. **Rwy 21**, 300-1 or std. w/ min. climb of 280' per NM to 3600.

DEPARTURE PROCEDURE: **Rwy 21**, climb heading 208° to 3600 before turning left.

NOTE: **Rwy 12**, tree 899' from DER, 310' right of centerline, 39' AGL/3049' MSL. **Rwy 21**, brush beginning 110' from DER, 222' right of centerline, up to 20' AGL/3159' MSL. Terrain beginning 124' from DER, 77' right of centerline, up to 3173' MSL. Terrain beginning 56' from DER, 132' left of centerline, up to 3111' MSL. Bush 236' from DER, 30' left of centerline, 6' AGL/3013' MSL. Vehicle on road, 2017' from DER, 973' left of centerline, 17' AGL/3066' MSL. **Rwy 30**, trees beginning 64' from DER, 354' left of centerline, up to 6' AGL/2995' MSL.

FREDERICKSBURG, TX

GILLESPIE COUNTY

DEPARTURE PROCEDURE: **Rwy 14**, climb via heading 139° to 2400 before proceeding on course. **Rwy 32**, climb via heading 319° to 2400 before proceeding on course.

GEORGE WEST, TX

LIVE OAK COUNTY

TAKE-OFF MINIMUMS: **Rwy 31**, 700-3 or std. with a min. climb of 230' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 13**, climb runway heading to 600 before turning right.

NOTE: **Rwy 31**, tower 22, 101' from departure end of runway, 1716' left of centerline, 470' AGL/737' MSL.

GEORGETOWN, TX

GEORGETOWN MUNI (GTU)
ORIG 10210 (FAA)

NOTE: **Rwy 11**, trees beginning 179' from DER, 278' left of centerline, up to 30' AGL/799' MSL. Trees beginning 318' from DER, 115' right of centerline, up to 30' AGL/799' MSL. Tower 5361' from DER, 515' right of centerline, 179' AGL/894' MSL. **Rwy 18**, trees beginning 293' from DER, 395' left of centerline, up to 30' AGL/789' MSL. Trees beginning 576' from DER, 15' right of centerline, up to 30' AGL/779' MSL. **Rwy 29**, trees beginning 394' from DER, 384' right of centerline, up to 30' AGL/829' MSL. Trees beginning 437' from DER, 237' left of centerline, up to 30' AGL/819' MSL. **Rwy 36**, trees beginning 276' from DER, 134' left of centerline, up to 30' AGL/819' MSL. Trees beginning 356' from DER, 282' right of centerline, up to 30' AGL/819' MSL. Tower 928' from DER, 684' right of centerline, 47' AGL/820' MSL.

HAMILTON, TX

HAMILTON MUNI (MNZ)
ORIG 09351 (FAA)

NOTE: **Rwy 18**, tree 689' from DER, 211' left of centerline, 40' AGL/1346' MSL. Vehicle on North-South road 849' from DER, on extended centerline, 15' AGL/1321' MSL. **Rwy 36**, trees beginning 621' from DER, 186' left of centerline, 40' AGL/1359' MSL. Trees 879' from DER, 87' right of centerline, 40' AGL/1359' MSL.

HARLINGEN, TX

VALLEY INTL

NOTE: **Rwy 13**, pole 1031' from departure end of runway, 465' left of centerline, 38' AGL/68' MSL. Pole 1055' from departure end of runway, 475' left of centerline, 38' AGL/68' MSL. **Rwy 17R**, fence 24' from departure end of runway, 499' right of centerline, 8' AGL/41' MSL.

Rwy 17L, road (non-interstate) 416' from departure end of runway, on runway centerline, 20' AGL/51' MSL. Road (non-interstate) 410' from departure end of runway, 520' left of centerline, 20' AGL/50' MSL. **Rwy 31**, tree 983' from departure end of runway, 462' left of centerline, 42' AGL/69' MSL.

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HEBBRONVILLE, TX

JIM HOGG COUNTY (HVB)
ORIG 10210 (FAA)

NOTE: **Rwy 13**, trees beginning 7' from DER, 59' left of centerline, up to 25' AGL/694' MSL. **Rwy 31**, trees beginning 112' from DER, 274' right of centerline to 438' left of centerline, up to 12' AGL/681' MSL. Pole 801' from DER, 374' right of centerline, up to 26' AGL/685' MSL. NDB 275' from DER, 495' left of centerline, up to 33' AGL/692' MSL. Vehicle on road 399' from DER, left and right of centerline, up to 15' AGL/674' MSL.

HONDO, TX

SOUTH TEXAS RGNL AT HONDO (HDO)
ORIG-A 11209 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA-Environmental. NOTE: **Rwy 8**, trees 407' from DER, 243' left of centerline, 30' AGL/959' MSL. **Rwy 17L**, vehicles on road 488' from DER, 131' right of centerline, 15' AGL/925' MSL. **Rwy 17R**, sand storage domes beginning 3653' from DER, 838' right of centerline, up to 115' AGL/1023' MSL. **Rwy 35R**, vehicles on road 161' from DER, 172' left of centerline, 15' AGL/943' MSL. Multiple trees beginning 636' from DER, 354' right of centerline, up to 26' AGL/955' MSL. Vehicles on road beginning 490' from DER, 122' right of centerline, 15' AGL/943' MSL. **Rwy 26**, trees 1022' from DER, 241' right of centerline, 30' AGL/959' MSL. **Rwy 13**, trees 726' from DER, 250' left of centerline, 30' AGL/939' MSL.

HOOD AAF (KHLR)

FORT HOOD (KILLEEN), TX ... AMDT 2, 09351

TAKE-OFF MINIMUMS: **Rwy 16, 34** Standard*
* For Copter use only.

JUNCTION, TX

KIMBLE COUNTY (JCT)
AMDT 2 11125 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA - Environmental. **Rwy 17**, std. w/min. climb of 340' per NM to 2300 or 1300-3 for climb in visual conditions. **Rwy 35**, std. w/min. climb of 565' per NM to 2200 or 400-3 with minimum climb of 230' per NM to 2500, or 1300-3 for climb in visual conditions. DEPARTURE PROCEDURE: **Rwy 17**, climb heading 172° to 2800 before proceeding on course, for climb in visual conditions cross Kimble County Airport at or above 2900 before proceeding on course. **Rwy 35**, for climb in visual conditions cross Kimble County Airport at or above 2900 before proceeding on course.

NOTE: **Rwy 17**, trees beginning abeam DER, 297' right of centerline, up to 50' AGL/1749' MSL. Power lines beginning 229' from DER, 370' right of centerline, up to 75' AGL/1744' MSL. Vehicles on road beginning 390' from DER, left and right of centerline, up to 17' AGL/1716' MSL. Trees beginning 1548' from DER, left and right of centerline, up to 50' AGL/2049' MSL. Radio towers beginning 4568' from DER, 736' left of centerline, up to 169' AGL/1854' MSL. **Rwy 35**, powerlines beginning abeam DER, 545' left of centerline, up to 75' AGL/1854' MSL. Power lines abeam DER, 561' right of centerline, up to 75' AGL/1854' MSL. Vehicles on road beginning 1121' from DER, left and right of centerline, up to 15' AGL/1794' MSL. Trees beginning 1254' from DER, left and right of centerline, up to 50' AGL/2129' MSL.

KENEDY, TX

KARNES COUNTY (2R9)
AMDT 1 11293 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 400-2 or std. w/min. climb of 359' per NM to 900.
DEPARTURE PROCEDURE: **Rwy 34**, climb heading 344° to 900 before turning left.

NOTE: **Rwy 16**, trees beginning 85' from DER, 245' left of centerline, up to 35' AGL/304' MSL. Trees beginning 98' from DER, 206' right of centerline, up to 35' AGL/304' MSL. **Rwy 34**, trees beginning 321' from DER, 245' right of centerline, up to 35' AGL/318' MSL. Tower 1.4 NM from DER, 2809' left of centerline, 238' AGL/628' MSL.

KERRVILLE, TX

KERRVILLE MUNI /LOUIS SCHREINER
FIELD (ERV)
AMDT 1 11013 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, std. w/min. climb of 377' per NM to 2800 or 1000-3 for climb in visual conditions. **Rwy 30**, std. w/min. climb of 216' per NM to 2500 or 1000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3, 30**, for climb in visual conditions: cross Kerrville Muni/Louis Schreiner Field at or above 2600' MSL before proceeding on course.

NOTE: **Rwy 3**, trees and pole beginning 203' from DER, 46' left of centerline, up to 31' AGL/1692' MSL. Trees, poles, T-towers beginning 136' from DER, 11' right of centerline, up to 30' AGL/1927' MSL.

Rwy 12, terrain 62' from DER, 79' right of centerline, 1592' MSL. Terrain 66' from DER, 322' left of centerline, 1602' MSL. Tree 94' from DER, 321' right of centerline, 24' AGL/1597' MSL. Vehicle on road 211' from DER, 430' left of centerline, up to 15' AGL/1608' MSL. Terrain 267' from DER, 494' left of centerline, 1605' MSL. Tree 340' from DER, 472' right of centerline, 37' AGL/1609' MSL. Terrain 1065' from DER, 778' left of centerline, 1618' MSL. Tree 1663' from DER, 718' left of centerline, 41' AGL/1644' MSL. **Rwy 21**, trees, fence, and poles beginning 4' from DER, 239' right of centerline, up to 46' AGL/1608' MSL. Terrain 58' from DER, 18' right of centerline, 1588' MSL. Terrain 169' from DER, 368' left of centerline, 1588' MSL. Terrain 202' from DER, 239' right of centerline, 1585' MSL. Terrain 423' from DER, 533' left of centerline, 1595' MSL. Tree 1082' from DER, 166' left of centerline, 42' AGL/1610' MSL. **Rwy 30**, trees and poles beginning 248' from DER, 121' left of centerline, up to 61' AGL/1611' MSL. Trees, antennas, and poles beginning 275' from DER, 266' right of centerline, up to 42' AGL/1615' MSL.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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KILLEEN, TX

KYLARK FIELD (ILE)
AMDT 2 09015 (FAA)

DEPARTURE PROCEDURE: **Rwy 19**, climb heading 190° to 1900 before turning east.

NOTE: **Rwy 1**, multiple poles beginning 317' from departure end of runway, 384' left of centerline, up to 27' AGL/868' MSL. Tree, 973' from departure end of runway, 100' left of centerline, 28' AGL/876' MSL. Building, 486' from departure end of runway, 9' right of centerline, 13' AGL/854' MSL. Antenna, 351' from departure end of runway, 277' right of centerline, 11' AGL/852' MSL. **Rwy 19**, pole, 288' from departure end of runway, 588' right of centerline, 32' AGL/880' MSL. Building, 102' from departure end of runway, 411' right of centerline, 8' AGL/856' MSL. Vehicle on road, 232' from departure end of runway, 499' right of centerline, 15' AGL/867' MSL. Pole, 256' from departure end of runway, 497' left of centerline, 32' AGL/873' MSL. Building, 276' from departure end of runway, 342' left of centerline, 11' AGL/859' MSL. Building, 298' from departure end of runway, 83' left of centerline, 9' AGL/857' MSL.

KINGSVILLE, TX

KLEBERG COUNTY (IKG)
ORIG 10210 (FAA)

NOTE: **Rwy 13**, trees beginning 528' from DER, 515' right of centerline, up to 35' AGL/154' MSL. Trees beginning 775' from DER, 554' left of centerline, up to 35' AGL/159' MSL. **Rwy 31**, trees beginning 184' from DER, 358' right of centerline, up to 28' AGL/153' MSL.

LACKLAND AFB (KELLY FLD ANNEX) (KSKF)

SAN ANTONIO, TX 12068
TAKE-OFF OBSTACLES: **Rwy 33**, trees 50' AGL/743' MSL, 1763' from DER, 919' left of centerline.

LAGO VISTA, TX

LAGO VISTA TX-RUSTY ALLEN (RYW)
ORIG 10210 (FAA)

NOTE: **Rwy 15**, trees beginning 542' from DER, 300' left of centerline, up to 30' AGL/1229' MSL. Trees beginning 626' from DER, 188' right of centerline, up to 30' AGL/1229' MSL. **Rwy 33**, trees beginning 632' from DER, 182' left of centerline, up to 30' AGL/1279' MSL. Trees beginning 504' from DER, 232' right of centerline, up to 30' AGL/1269' MSL.

LAMPASAS, TX

LAMPASAS (LZZ)
ORIG 09351 (FAA)

NOTE: **Rwy 16**, building 39' from DER, 374' left of centerline, 20' AGL/1189' MSL. Trees beginning 795' from DER, 217' right of centerline, up to 30' AGL/1189' MSL. **Rwy 34**, trees beginning 657' from DER, 147' left of centerline, up to 30' AGL/1249' MSL.

LAREDO, TX

LAREDO INTL (LRD)
AMDT 4 11293 (FAA)

DEPARTURE PROCEDURE: **Rwy 14**, climb heading 139° to 1000 before turning right. **Rwy 17L**, climb heading 160° to 1200 before turning right. **Rwy 17R**, climb heading 160° to 1300 before turning right. **Rwy 32**, climb heading 319° to 1200 before turning left. **Rwys 35L, 35R**, climb heading 355° to 1000 before turning left.

NOTE: **Rwy 14**, trees beginning 135' from DER, 298' left of centerline, up to 59' AGL/519' MSL. Sign 226' from DER, 244' left of centerline, 14' AGL/474' MSL. **Rwy 17L**, terrain beginning 48' from DER, 333' right of centerline, up to 478' MSL. **Rwy 17R**, terrain beginning 4' from DER, 219' right of centerline, up to 489' MSL. Light poles beginning 894' from DER, 344' right of centerline, up to 41' AGL/511' MSL. **Rwy 32**, aircraft on taxiway beginning 50' from DER, 367' left of centerline, up to 75' AGL/584' MSL. Trees beginning 768' from DER, 584' left of centerline, up to 59' AGL/559' MSL. Trees beginning 88' from DER, 275' right of centerline, up to 59' AGL/559' MSL. **Rwy 35L, MALS R 5'** from DER, on centerline, 5' AGL/505' MSL. Navaid 10' from DER, on centerline, 5' AGL/505' MSL. Antenna on building 81' from DER, 404' left of centerline, 30' AGL/520' MSL. **Rwy 35R**, terrain beginning 19' from DER, 191' left of centerline, up to 500' MSL. Terrain beginning 176' from DER, 489' right of centerline, up to 512' MSL.

LAUGHLIN AFB (KDLF)

DEL RIO, TX AMDT 2, 07270

TAKE-OFF OBSTACLES: **Rwy 13C**, taxiing aircraft 14' AGL/1079' MSL, 190' from DER, 222' right of centerline. Taxiing aircraft 14' AGL/1103' MSL, 84' from DER, 552' right of centerline. **Rwy 13L**, taxiing aircraft 14' AGL/1076' MSL, 7' from DER, 204' right of centerline. **Rwy 13R**, taxiing aircraft 12' AGL/1107' MSL, 149' from DER, 338' right of centerline. Taxiing aircraft 14' AGL/1090' MSL, 309' from DER, 501' left of centerline. Taxiing aircraft 14' AGL/1090' MSL, 141' from DER, 175' right of centerline. Taxiing aircraft 14' AGL/1090' MSL, 338' from DER, 204' left of centerline. Taxiing aircraft 14' AGL/1090' MSL, 389' from DER, 303' left of centerline. Taxiing aircraft 14' AGL/1113' MSL, 848' from DER, 603' right of centerline. **Rwy 31C**, vehicular traffic 10' AGL/1093' MSL 18' from DER, 462' right of centerline. **Rwy 31L**, taxiing aircraft 14' AGL/1091' MSL, 198' from DER, 172' right of centerline. Vehicular traffic 10' AGL/1108' MSL, 862' from DER, 550' left of centerline. Taxiing aircraft 14' AGL/1094' MSL 249' from DER, 327' right of centerline. Taxiing aircraft 14' AGL/1089' MSL, 178' from DER, 171' left of centerline. Pole 8' AGL/1104' MSL, 229' from DER, 568' left of centerline. Transmissometer 18' AGL/1095' MSL, 299' from DER, 301' left of centerline. **Rwy 31R**, terrain 0' AGL/1083' MSL, 0' from DER, 500' left of centerline. Windsock 0' AGL/1102' MSL, 25' from DER, 496' left of centerline. Terrain 0' AGL/1085' MSL, 89' from DER, 489' right of centerline. Taxiing aircraft 14' AGL/1090' MSL, 11' from DER, 175' left of centerline. Railroad 23' AGL/1122' MSL, 1429' from DER, 468' right of centerline.

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LLANO, TX

LLANO MUNI (AQO)

ORIG 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13, 31**, NA-
Environmental.DEPARTURE PROCEDURE: **Rwy 35**, climb heading
354° to 1900 before proceeding on course.NOTE: **Rwy 17**, tree 11' from DER, 364' left of centerline,
25' AGL/1144' MSL. Trees 811' from DER, 242' left of
centerline, 25' AGL/1124' MSL. **Rwy 35**, hangar 209'
from DER, 497' right of centerline, 30' AGL/1149' MSL.
Tree 485' from DER, 265' right of centerline, 25' AGL/
1144' MSL. Vehicles on North-South road, 270' left of
centerline, 15' AGL/1114' MSL. Vehicles on road 390'
from DER, crosses centerline East-West, 15' AGL/1134'
MSL.**LOCKHART, TX**

LOCKHART MUNI (50R)

ORIG 11237 (FAA)

TAKE-OFF MINIMUMS: **Rwy 36**, 400-3 or std. w/min.
climb of 275' per NM to 1200.DEPARTURE PROCEDURE: **Rwy 36**, climb heading
355° to 1200 before turning.NOTE: **Rwy 18**, trees beginning 47' from DER, 267' left
of centerline, up to 65' AGL/555' MSL. Trees beginning
245' from DER, 13' right of centerline, up to 42' AGL/
541' MSL. **Rwy 36**, bush 51' from DER, 305' right of
centerline, 8' AGL/568' MSL. Pole 1298' from DER,
561' right of centerline, 38' AGL/568' MSL. Tower 2.2
NM from DER, 2536' right of centerline, 378' AGL/918'
MSL.**MARFA, TX**

MARFA MUNI (MRF)

AMDT1 11013 (FAA)

TAKE-OFF MINIMUMS: CAUTION: Unmarked balloon
and cable to 14000' MSL in R-6318. **Rwys 8, 26**, NA-
Environmental.DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn
direct MRF VOR/DME, thence...**Rwy 13**, climb direct MRF VOR/DME, thence...**Rwys 22, 31**, climbing left turn direct MRF VOR/DME,
thence......All aircraft climb in MRF holding pattern (Hold SE, left
turns, 313° inbound) to cross MRF VOR/DME at or
above MEA for direction of flight.NOTE: **Rwy 4**, trees beginning 899' from DER, 310' left
of centerline, up to 50' AGL/4929' MSL. Vehicles on
road beginning 176' from DER, 175' left of centerline,
up to 15' AGL/4874' MSL. **Rwy 13**, vehicles on road
beginning 544' from DER, left and right of centerline,
up to 15' AGL/4854' MSL. **Rwy 22**, building and
greenhouses beginning 28' from DER, 493' left of
centerline, up to 35' AGL/4864' MSL.**MASON, TX**

MASON COUNTY (T92)

ORIG 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, 300-1 or std. w/min.
climb of 394' per NM to 1800.DEPARTURE PROCEDURE: **Rwy 17**, climb heading
181° to 2100' before turning right.NOTE: **Rwy 13**, terrain beginning 7' from departure
end of runway, 100' left of centerline, up to 1523' MSL.
Tree 1506' from departure end of runway, 254' left of
centerline, 100' AGL/1639' MSL. **Rwy 17**, tree 4503'
from departure end of runway, 405' left of centerline,
100' AGL/1619' MSL. Terrain beginning 162' from
departure end of runway, 179' right of centerline, up to
1520' MSL. **Rwy 31**, tree 1590' from departure end of
runway, 411' left of centerline, 100' AGL/1629' MSL.
Terrain beginning 61' from departure end of runway,
51' right of centerline, up to 1513' MSL. Powerlines
beginning 2999' from departure end of runway, left and
right of centerline, up to 79' AGL/1585' MSL. **Rwy 35**,
trees beginning 4019' from departure end of runway,
151' left of centerline, up to 100' AGL/1699' MSL.
Tower 4519' from departure end of runway, 361' right of
centerline, 55' AGL/1635' MSL.**MC ALLEN, TX**

MC ALLEN MILLER INTL (MFE)

AMDT 1 08353 (FAA)

TAKE-OFF MINIMUMS: **Rwy 36**, 300-2½, or std. with a
min. climb of 298' per NM to 500'.NOTE: **Rwy 13**, multiple trees beginning 792' from
departure end of runway, 593' left of centerline, 44'
AGL/159' MSL. **Rwy 31**, multiple trees beginning 708'
from departure end of runway, 361' left of centerline, 43'
AGL/157' MSL. Multiple trees beginning 1018' from
departure end of runway, 626' right of centerline, 38'
AGL/142' MSL. **Rwy 36**, light pole 581' from departure
end of runway, on centerline, 17' AGL/122' MSL.
Multiple buildings and trees beginning 624' from
departure end of runway, 36' left of centerline, 24' AGL/
129' MSL. Tower 197' from departure end of runway,
335' left of centerline, 38' AGL/140' MSL. Multiple
buildings, poles, and towers beginning 635' from
departure end of runway, right of centerline, 25' AGL/
394' MSL.

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MIDLAND, TX

MIDLAND AIRPARK (MDD)

AMDT 3 10294 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 400-2½ or std. w/min. climb of 211' per NM to 3300, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER. **Rwy 25**, 300-2 or standard with minimum climb of 208' per NM to 3100, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1300' prior to DER.

NOTE: **Rwy 7**, multiple light poles beginning 317' from DER, 245' left of centerline, up to 52' AGL/2863' MSL. Vehicle on road 88' from DER, 444' left of centerline, 17' AGL/2820' MSL. Tree 174' from DER, 360' left of centerline 60' AGL/2801' MSL. Bush 218' from DER, 442' right of centerline, up to 12' AGL/2797' MSL.

Rwy 16, multiple trees and poles beginning 196' from DER, 291' right of centerline, up to 52' AGL/2842' MSL. Trees beginning 857' from DER, 228' left of centerline, up to 60' AGL/2842' MSL. Building 2.1 NM from DER, 3680' left of centerline, 354' AGL/3134' MSL. Bush 37' from DER, 491' right of centerline, up to 12' AGL/2803' MSL.

Rwy 25, multiple light poles beginning 151' from DER, 12' right of centerline up to 52' AGL/2876' MSL. Trees beginning 1192' from DER, 41' right of centerline up to 60' AGL/2846' MSL. Multiple buildings beginning 1417' from DER, 433' left of centerline, 40' AGL/2851' MSL. Vehicle on road 203' from DER, 347' right of centerline, 17' AGL/2835' MSL. Sign 1202' from DER, 206' left of centerline 35' AGL/2835' MSL. **Rwy 34**, Trees beginning 839' from DER, 329' right of centerline, up to 60' AGL/2850' MSL. Light pole 635' from DER, 611' right of centerline 52' AGL/2843' MSL. Vehicle on road 572' from DER, 424' left of centerline 17' AGL/2833' MSL.

MIDLAND, TX (CON'T)

MIDLAND INTL (MAF)

ORIG 09015 (FAA)

NOTE: **Rwy 4**, tower 1547' from departure end of runway, 727' left of centerline, 93' AGL/2961' MSL. Dome 1234' from departure end of runway, 675' left of centerline, 36' AGL/2900' MSL. **Rwy 10**, road 467' from departure end of runway, 254' right of centerline, 20' AGL/2874' MSL. Sign 2219' from departure end of runway, 793' left of centerline, 48' AGL/2912' MSL. Pole 1563' from departure end of runway, 733' left of centerline, 31' AGL/2895' MSL. **Rwy 16L**, tree 217' from departure end of runway, 536' right of centerline, 100' AGL/2944' MSL. Sign 94' from departure end of runway, 365' left of centerline, 26' AGL/2875' MSL. Poles beginning 324' from departure end of runway, 277' left of centerline, 29' AGL/2874' MSL. Vehicle on road 382' from departure end of runway, 269' left of centerline, 17' AGL/2860' MSL. Train 553' from departure end of runway, 498' left of centerline, 23' AGL/2867' MSL. Vehicle on road 384' from departure end of runway, 549' left of centerline, 17' AGL/2866' MSL. Train 783' from departure end of runway, 17' left of centerline, 23' AGL/2869' MSL.

Rwy 16R, tree 3717' from departure end of runway, 1419' right of centerline, 100' AGL/2954' MSL. **Rwy 22**, antenna 2747' from departure end of runway, 962' right of centerline, 100' AGL/2964' MSL. Tower 2813' from departure end of runway, 1049' right of centerline, 102' AGL/2964' MSL. Hangar 1113' from departure end of runway, 600' right of centerline, 46' AGL/2905' MSL. Tree 5361' from departure end of runway, 1869' right of centerline, 100' AGL/2989' MSL. **Rwy 34R**, vehicle on road 258' from departure end of runway, 253' right of centerline, 17' AGL/2881' MSL. Tree 255' from departure end of runway, 81' right of centerline, 11' AGL/2875' MSL. Fence post 29' from departure end of runway, 263' right of centerline, 4' AGL/2868' MSL. Vehicle on road 447' from departure end of runway, 11' right of centerline, 15' AGL/2880' MSL. Pole 1279' from departure end of runway, 117' left of centerline, 29' AGL/2903' MSL. Fence 85' from departure end of runway, 257' left of centerline, 5' AGL/2869' MSL. Fence post 185' from departure end of runway, 71' left of centerline, 5' AGL/2869' MSL.

MONAHANS, TX

ROY HURD MEMORIAL (E01)

AMDT 1 12152 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 400-1½ or std. w/min. climb of 434' per NM to 3100. **Rwy 12**, 300-1 or std. w/min. climb of 552' per NM to 2900.

NOTE: **Rwy 1**, vehicles on road, trees, and power line and poles beginning 185' from DER, left and right of centerline, up to 40' AGL/2649' MSL. Tower 1.2 NM from DER, 211' right of centerline, 303' AGL/2928' MSL. **Rwy 12**, bush 75' from DER, 479' left of centerline, 12' AGL/2617' MSL. Trees and a pole beginning 778' from DER, 23' right of centerline, up to 31' AGL/2641' MSL. Trees beginning 1041' from DER, 29' left of centerline, up to 42' AGL/2652' MSL. Tower 2283' from DER, 909' left of centerline, 130' AGL/2744' MSL. **Rwy 19**, vehicle on road 215' from DER, 457' right of centerline, 15' AGL/2624' MSL. **Rwy 30**, fence, railroad, poles, and trees beginning 56' from DER, 106' right of centerline, up to 44' AGL/2649' MSL. Vehicle on road, light pole, building, and poles beginning 294' from DER, 41' left of centerline, up to 50' AGL/2655' MSL.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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NEW BRAUNFELS, TX

NEW BRAUNFELS MUNI

DEPARTURE PROCEDURE: **Rwy 31**, climb heading 308° to 2600 before turning right. **Rwy 35**, climb heading 353° to 2200 before turning left.

NOTE: **Rwy 31**, multiple trees and antenna beginning 1125' from departure end of runway, 592' left of centerline, up to 47' AGL/706' MSL. Road 1014' from departure end of runway, 439' right of centerline, 15' AGL/687' MSL.

ODESSA, TX

ODESSA-SCHLEMEYER FIELD (ODO)

AMDT 2 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 20**, 400-2½ or std. w/a min. climb of 225' per NM to 3400, or alternatively, with standard take-off minimums and normal 200' per NM climb gradient, take-off must occur no later than 2100' prior to DER.

NOTE: **Rwy 2**, vehicle on roadway 184' from DER, left and right of centerline, 15' AGL/3024' MSL. **Rwy 16**, building 466' from DER, 487' left of centerline, 50' AGL/3029' MSL. Powerlines 896' from DER, left and right of centerline, 30' AGL/2984' MSL. **Rwy 20**, tower 2.3 miles from DER, 1311' left of centerline, 340' AGL/3287' MSL.

Rwy 29, rising terrain, trees, and poles beginning 8' from DER, 495' right of centerline, up to 27' AGL/3012' MSL.

Rwy 34, airplane on taxiway 21' from DER, 362' left of centerline, up to 17' AGL/3001' MSL. Vehicles on roadway beginning 48' from DER, left and right of centerline, up to 16' AGL/3014' MSL. Buildings and hangers beginning 739' from DER, left and right of centerline, up to 50' AGL/3044' MSL.

OZONA, TX

OZONA MUNI

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 445' per NM to 2700. **Rwy 34**, 200-1½ or std. with a min. climb of 380' per NM to 2600.

NOTE: **Rwy 16**, trees 3686' from departure end of runway, 354' left of centerline, 100' AGL/2560' MSL. Trees 4436' from departure end of runway, 355' left of centerline, 100' AGL/2574' MSL. **Rwy 34**, trees 1363' from departure end of runway, 638' left of centerline, 100' AGL/2529' MSL. Trees 3479' from departure end of runway, 791' left of centerline, 100' AGL/2535' MSL. Trees 7679' from departure end of runway, 932' left of centerline, 100' AGL/2593' MSL.

PEARSALL, TX

MC KINLEY FIELD (T30)

ORIG 11321 (FAA)

NOTE: **Rwy 13**, trees beginning abeam DER, 300' left of centerline, up to 40' AGL/605' MSL. Transmission lines beginning 1777' from DER, across centerline, up to 80' AGL/642' MSL. **Rwy 31**, train on track 496' from DER, across centerline, 23' AGL/610' MSL. Vehicle on road 291' from DER, across centerline, 15' AGL/602' MSL.

PLEASANTON, TX

PLEASANTON MUNI (PEZ)

AMDT 1 08325 (FAA)

NOTE: **Rwy 16**, vehicle on road 108' from departure end of runway, 285' left of centerline, 15' AGL/424' MSL. Fence 135' from departure end of runway, 194' left of centerline, 3' AGL/412' MSL. Fence 235' from departure end of runway, 38' right of centerline, 3' AGL/412' MSL. Trees beginning 246' from departure end of runway, 56' left of centerline, up to 100' AGL/529' MSL. Trees beginning 173' from departure end of runway, 154' right of centerline, up to 100' AGL/529' MSL. **Rwy 34**, vehicle on road 136' from departure end of runway, left to right of centerline, up to 15' AGL/444' MSL. Fence 191' from departure end of runway, 251' left of centerline, 3' AGL/442' MSL. Trees beginning 210' from departure end of runway, 51' left of centerline, up to 100' AGL/539' MSL. Tree 172' from departure end of runway, 74' right of centerline, 100' AGL/529' MSL.

PORT ARANSAS, TX

MUSTANG BEACH (RAS)

AMDT 1 09015 (FAA)

NOTE: **Rwy 12**, transmission towers and poles beginning 43' from departure end of runway, 28' right of centerline, up to 81' AGL/86' MSL. Building 2435' from departure end of runway, 967' right of centerline, 130' AGL/135' MSL. Transmission towers and poles beginning 1141' from departure end of runway, 13' left of centerline, up to 83' AGL/88' MSL. **Rwy 30**, boat 1657' from departure end of runway, 915' left of centerline, 50' AGL/50' MSL.

PORT ISABEL, TX

PORT ISABEL-CAMERON COUNTY (PIL)

AMDT 2 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 400-2 or std. with a min. climb of 253' per NM to 500.

NOTE: **Rwy 3**, trees beginning 178' from departure end of runway, 27' left of centerline, up to 100' AGL/114' MSL. **Rwy 8**, trees beginning 2046' from departure end of runway, 511' right of centerline, up to 100' AGL/119' MSL. Trees beginning 1981' from departure end of runway, 118' right of centerline, up to 100' AGL/119' MSL. **Rwy 13**, trees beginning 530' from departure end of runway, 32' left of centerline, up to 100' AGL/119' MSL. **Rwy 17**, trees beginning 911' from departure end of runway, 84' left of centerline, up to 100' AGL/119' MSL. **Rwy 35**, trees beginning 15' from departure end of runway, 4' left of centerline, up to 100' AGL/114' MSL.

ROBSTOWN, TX

NUECES COUNTY

TAKE-OFF MINIMUMS: **Rwy 13**, 1000-3, or std. with a min. climb of 390' per NM to 1200.

DEPARTURE PROCEDURE: **Rwy 13**, climb heading 130° to 1200 prior to turning north or east.

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ROCKPORT, TX ARANSAS COUNTY

NOTE: **Rwy 14**, road plus vehicle 500' from departure end of runway, 593' left of centerline, 17' AGL/40' MSL. **Rwy 18**, antenna 5599' from departure end of runway, 602' left of centerline, 160' AGL/171' MSL. **Rwy 32**, road plus vehicle 291' from departure end of runway, 533' left of centerline, 17' AGL/40' MSL. **Rwy 36**, road plus vehicle 576' from departure end of runway, 597' left of centerline, 17' AGL/40' MSL.

ROCKSPRINGS, TX EDWARDS COUNTY

NOTE: **Rwy 14**, multiple trees beginning 1076' from departure end of runway, 22' right of centerline, up to 100' AGL/2459' MSL. **Rwy 32**, fence 101' from departure end of runway, 35' left of centerline, 5' AGL/2374' MSL. Multiple trees beginning 318' from departure end of runway, 71' left of centerline, up to 100' AGL/2479' MSL. Multiple trees beginning 992' from departure end of runway, 532' right of centerline, up to 100' AGL/2479' MSL.

SAN ANGELO, TX SAN ANGELO RGNL/MATHIS FIELD (SJT) AMDT 1 10238 (FAA)

DEPARTURE PROCEDURE: **Rwy 27**, climb to 2500 before turning right. **Rwy 36**, climb to 2600 before turning left.

NOTE: **Rwy 3**, fence 8' from DER, 490' right of centerline, 3' AGL/1896' MSL. **Rwy 18**, multiple trees and poles beginning 112' from DER, 183' left of centerline, up to 43' AGL/1962' MSL. Multiple trees and poles beginning 1076' from DER, 114' right of centerline, up to 47' AGL/1966' MSL. Catenary 1779' from DER, 457' right of centerline, 45' AGL/1964' MSL. **Rwy 27**, multiple trees beginning 482' from DER, 74' left of centerline, up to 24' AGL/1933' MSL. Light pole 1040' from DER, 252' left of centerline, 22' AGL/1931' MSL. Tree 538' from DER, 226' right of centerline, 21' AGL/1930' MSL.

SAN ANTONIO, TX BOERNE STAGE FIELD

DEPARTURE PROCEDURE: **Rwy 35**, climb heading 346° to 2800 before turning westbound.
NOTE: **Rwy 17**, multiple trees and light poles along tree line beginning 6' from departure end of runway, 128' right of centerline, up to 50' AGL/1427' MSL. Multiple trees and light poles along tree line beginning 81' from departure end of runway, 144' left of centerline, up to 50' AGL/1409' MSL. **Rwy 35**, multiple trees and poles beginning 204' from departure end of runway, 7' left of centerline, up to 50' AGL/1422' MSL. Multiple trees and poles beginning 205' from departure end of runway, 24' right of centerline, up to 50' AGL/1423' MSL. Hangar 80' from departure end of runway, 222' right of centerline, up to 50' AGL/1397' MSL.

SAN ANTONIO, TX (CON'T) SAN ANTONIO INTL (SAT) ORIG 09183 (FAA)

NOTE: **Rwy 3**, tree 734' from DER, 695' left of centerline, 31' AGL/793' MSL. **Rwy 12R**, antenna on tower 1034' from DER, 723' right of centerline, 42' AGL/820' MSL. Building and vent on building beginning 3801' from DER, 1488' right of centerline, 117' AGL/881' MSL. **Rwy 21**, antenna on hangar and flagpole beginning 1198' from DER, 700' right of centerline, up to 39' AGL/825' MSL. Sign 2713' from DER, 1034' right of centerline, 71' AGL/857' MSL. **Rwy 30L**, tower and poles beginning 1931' from DER, 834' left of centerline, up to 42' AGL/892' MSL. Sign 2435' from DER, 1042' right of centerline, 54' AGL/873' MSL. **Rwy 30R**, rod on obstruction light 1261' from DER, 591' left of centerline, 57' AGL/854' MSL.

STINSON MUNI (SSF) AMDT 2 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, Std. w/ min climb of 225' per NM to 1900 or 1000-2½ for climb in visual conditions. **Rwy 27**, 300-1¼ or std. w/ min. climb of 221' per NM to 900, or alternatively, with standard takeoff minimums and normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 9**, For climb in visual conditions, cross Stinson Muni Airport at or above 1400 MSL before proceeding on course. **Rwy 14**, Climb heading 137° to 1200 before turning left. **Rwy 32**, Climb heading 317° to 1500 before turning right.

NOTES: **Rwy 9**, Vehicle on road 285' from departure end of runway, 380' left of centerline, 15' AGL/584' MSL. Trees beginning 1653' from departure end of runway, 435' right of centerline, up to 70' AGL/629' MSL. **Rwy 14**, Vehicle on road 114' from departure end of runway, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL. Trees beginning 72' from departure end of runway, 79' right of centerline, up to 70' AGL/607' MSL. Trees beginning 232' from departure end of runway, 54' left of centerline, up to 70' AGL/618' MSL. Transmission line tower 4205' from departure end of runway, 133' right of centerline, 119' AGL/663' MSL. **Rwy 27**, Fence 41' from departure end of runway, 30' right of centerline, 8' AGL/584' MSL. Vehicle on road 108' from departure end of runway, 202' right of centerline, 15' AGL/584' MSL. Vehicle on road 123' from departure end of runway, 113' right of centerline, 15' AGL/596' MSL. Trees and poles beginning 229' from departure end of runway, 117' right of centerline, up to 70' AGL/645' MSL. Trees and poles beginning 599' from departure end of runway, 6' left of centerline, up to 70' AGL/634' MSL. Tank beginning 1.32 NM from departure end of runway, 1338' right of centerline, 179' AGL/799' MSL. Building 1422' from departure end of runway, 432' right of centerline, 40' AGL/627' MSL. Building 2133' from departure end of runway, 36' left of centerline, 55' AGL/635' MSL. **Rwy 32**, Fence 17' from departure end of runway, 80' left of centerline, 8' AGL/578' MSL. Vehicle on road 54' from departure end of runway, 199' left of centerline, 15' AGL/586' MSL. Trees beginning 164' from departure end of runway, 125' right of centerline, up to 70' AGL/639' MSL. Trees and poles beginning 43' from departure end of runway, 41' left of centerline, up to 75' AGL/668' MSL.

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SAN MARCOS, TX

SAN MARCOS MUNI (HYI)

AMDT 1 10266 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, std. w/ min. climb of 231' per NM to 2600, or 800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 31**, climb heading 307° to 1300 before turning right. **Rwy 35**, for climb in visual conditions: cross San Marcos Muni at or above 1200 before proceeding on course.

NOTE: **Rwy 8**, tree 943' from DER, 260' left of centerline, 33' AGL/612' MSL. **Rwy 26**, pole 1217' from DER, 551' right of centerline, 35' AGL/624' MSL. **Rwy 31**, pole 1054' from DER, 631' right of centerline, 33' AGL/621' MSL.

SINTON, TX

ALFRED C. BUBBA THOMAS

DEPARTURE PROCEDURE: **Rwy 14**, climb runway heading to 800 prior to turning east.

SONORA, TX

SONORA MUNI

TAKE-OFF MINIMUMS: **Rwy 18**, 700-2. **Rwy 36**, 300-1.

TEMPLE, TX

DRAUGHON-MILLER CENTRAL TEXAS

RGNL (TPL)

AMDT 4 10266 (FAA)

DEPARTURE PROCEDURE: **Rwy 2**, climb on heading between 085° CW to 200° from DER, or climb on heading between 200° CW to 345° from DER to 3600 before proceeding on course or minimum climb of 250' per NM to 3200 for all other courses. **Rwy 33**, climb on heading between 070° CW to 155° from DER, or climb on heading between 155° CW to 330° from DER to 3600 before proceeding on course or minimum climb of 240' per NM to 3200 for all other courses.

NOTE: **Rwy 2**, tree 279' from DER, 362' right of centerline, 11' AGL/680' MSL. Bushes and tree beginning 176' from DER, 416' left of centerline, up to 30' AGL/699' MSL. **Rwy 15**, bush 60' from DER, 210' left of centerline, 11' AGL/680' MSL. **Rwy 20**, hangars beginning 548' from DER, 571' right of centerline, up to 18' AGL/697' MSL. **Rwy 33**, trees beginning 307' from DER, 474' right of centerline, up to 32' AGL/701' MSL.

TAYLOR, TX

TAYLOR MUNI (T74)

ORIG 08269 (FAA)

NOTE: **Rwy 17**, numerous trees beginning at departure end of runway, 180' right of centerline up to 50' AGL/591' MSL. Terrain beginning 1700' from departure end of runway, 380' left of centerline, up to 601' MSL.

UVALDE, TX

GARNER FIELD (UVA)

ORIG 11 125 (FAA)

NOTE: **Rwy 15**, trees and poles beginning 70' from DER, 374' left of centerline, up to 100' AGL/1039' MSL. Trees and poles beginning 208' from DER, 359' right of centerline, up to 100' AGL/1059' MSL. **Rwy 33**, vehicle on roadway 622' from DER, left and right of centerline, up to 15' AGL/966' MSL. Trees beginning 744' from DER, 636' left of centerline, up to 100' AGL/1059' MSL. Trees beginning 861' from DER, 269' right of centerline, up to 100' AGL/1049' MSL.

VAN HORN, TX

CULBERSON COUNTY

TAKE-OFF MINIMUMS: **Rwys 17, 21**, 2100-2 or std. with a min. climb of 500' per NM to 5000. **Rwy 25**, NA.

DEPARTURE PROCEDURE: **Rwys 3, 17, 21, 35**, climb runway heading to 5000 then climbing right turn direct VHN NDB and climb in VHN NDB holding pattern to MEA, before proceeding on course. **Rwy 7**, climb runway heading to 5000 then climbing left turn direct VHN NDB and climb in VHN NDB holding pattern to MEA, before proceeding on course.

WACO, TX

MC GREGOR EXECUTIVE

TAKE-OFF MINIMUMS: **Rwys 4, 17, 22, 35**, 2000-3 or std. with a min. climb of 280' per NM to 3000.

DEPARTURE PROCEDURE: **Rwys 17, 22**, climb via ACT-R-195 to 3000 before proceeding on course. **Rwys 4, 35**, climb runway heading to 3000 before proceeding on course.

TSTC-WACO (CNW)

ORIG 08269 (FAA)

NOTE: **Rwy 17L**, terrain 198' from departure end of runway, 467' right of centerline, 464' MSL. **Rwy 17R**, vehicle on road 137' from departure end of runway, 487' right of centerline, 15' AGL/474' MSL. Trees beginning 872' from departure end of runway, 238' right of centerline, up to 100' AGL/529' MSL. Trees beginning 1239' from departure end of runway, 74' left of centerline, up to 100' AGL/512' MSL. **Rwy 35L**, trees beginning 3386' from departure end of runway, 529' left of centerline, up to 100' AGL/579' MSL. **Rwy 35R**, trees beginning 2606' from departure end of runway, 1042' right of centerline, up to 100' AGL/579' MSL. Tree 2094' from departure end of runway, 910' left of centerline, 45' AGL/524' MSL.

WACO RGNL (ACT)

ORIG 10266 (FAA)

NOTE: **Rwy 1**, rising terrain beginning 11' from DER, 34' right of centerline, up to 504' MSL. Pole 1170' from DER, 593' left of centerline, 34' AGL/534' MSL. Tree 1674' from DER, 794' right of centerline, 80' AGL/581' MSL. **Rwy 19**, rod 590' from DER, 257' right of centerline, 40' AGL/524' MSL. **Rwy 32**, trees beginning 501' from DER, 17' left of centerline, up to 70' AGL/562' MSL. Trees beginning 836' from DER, 30' right of centerline, up to 80' AGL/609' MSL.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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WESLACO, TX

MID VALLEY (T65)

ORIG 12068 (FAA)

DEPARTURE PROCEDURE: **Rwy 13**, climbing left turn heading 006° to intercept MFE R-075 to 1800 before proceeding on course.

NOTE: **Rwy 13**, vehicles on roadway beginning 7' from DER, left and right of centerline, up to 15' AGL/89' MSL. Flagpole 107' from DER, 424' left of centerline, 21' AGL/89' MSL. Multiple trees, poles and buildings beginning 200' from DER, 261' left of centerline, up to 44' AGL/111' MSL. Multiple trees and poles beginning 490' from DER, 269' right of centerline, up to 39' AGL/108' MSL. Tower 511' from DER, 635' left of centerline, 60' AGL/131' MSL. Catenarys beginning 1260' from DER, 337' right of centerline, up to 38' AGL/107' MSL. Trees beginning 3649' from DER, 1278' left of centerline, up to 100' AGL/169' MSL. **Rwy 31**, Vehicles on roadway beginning 335' from DER, 233' right of centerline, up to 15' AGL/84' MSL. Catenary 381' from DER, 527' right of centerline, 25' AGL/92' MSL. Poles beginning 420' from DER, 388' right of centerline, up to 26' AGL/93' MSL. Pole 1114' from DER, 525' left of centerline, 33' AGL/100' MSL. Catenary 1211' from DER, 651' left of centerline, 36' AGL/102' MSL. Trees beginning 1350' from DER, 440' right of centerline, up to 100' AGL/169' MSL. Trees beginning 1078' from DER, 448' left of centerline, up to 36' AGL/100' MSL.

WINK, TX

WINKLER COUNTY (INK)

ORIG-A 11069 (FAA)

DEPARTURE PROCEDURE: **Rwy 13**, climb heading 147° to 3400 before proceeding on course.

NOTE: **Rwy 4**, powerlines beginning 524' from DER, right and left of centerline, up to 30' AGL/2829' MSL. Trees beginning 742' from DER, right and left of centerline, up to 50' AGL/2859' MSL. **Rwy 13**, trees beginning 133' from DER, 307' right of centerline, up to 50' AGL/2822' MSL. Vehicles on road beginning 535' from DER, right and left of centerline, up to 15' AGL/2829' MSL. **Rwy 31**, trees beginning 49' from DER, 396' left of centerline, up to 50' AGL/2832' MSL. Trees beginning 1563' from DER, 585' right of centerline, up to 50' AGL/2874' MSL.

WINTERS, TX

WINTERS MUNI (77F)

ORIG 11237 (FAA)

NOTE: **Rwy 17**, multiple trees and fence beginning 428' from DER, 45' left of centerline, up to 25' AGL/1914' MSL. Multiple trees and terrain beginning 110' from DER, 188' right of centerline, up to 12' AGL/1895' MSL.

YOAKUM, TX

YOAKUM MUNI (T85)

ORIG 11069 (FAA)

NOTE: **Rwy 13**, vehicle on road, 179' from DER, 237' left of centerline, up to 15' AGL/364' MSL. **Rwy 31**, vehicle on road, 77' from DER, 257' right of centerline, up to 15' AGL/384' MSL.

12152

