



# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND



18116

## DIVERSE VECTOR AREA (RADAR VECTORS)

INSTRUMENT APPROACH PROCEDURE CHARTS



# IFR TAKEOFF 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 takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. An entry may also be listed that contains only Takeoff Obstacle Notes. 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 textually described below, or published separately as a graphic procedure. If the ODP 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 an 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.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow radar vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

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 takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

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

NAME TAKEOFF MINIMUMS

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### AKRON, CO

COLORADO PLAINS RGNL (AKO)  
TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG 09127 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 11**, rod on obstruction light on anemometer 314' from DER, 525' left of centerline, 26' AGL/4695' MSL. Lights on hangers 412' from DER, 301' left of centerline, 18' AGL/4687' MSL. **Rwy 29**, vehicles on roadway beginning 971' from DER, 315' left of centerline, 15' AGL/4741' MSL. Trees beginning 1651' from DER, 528' left of centerline, up to 100' AGL/4839' MSL.

### ALAMOGORDO, NM

ALAMOGORDO-WHITE SANDS RGNL  
(ALM)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMDT 1A 17005 (FAA)  
TAKEOFF MINIMUMS: **Rwy 17, 35**, NA-Environmental.  
**Rwy 22**, NA-Airspace.  
DEPARTURE PROCEDURE: **Rwy 4**: Use CORONA DEPARTURE.

### ALAMOS, CO

SAN LUIS VALLEY RGNL-BERGMAN  
FIELD (ALS)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMDT 4B 14037 (FAA)

TAKEOFF MINIMUMS: **Rwys 6, 24**, NA.  
DEPARTURE PROCEDURE: **Rwy 2**, climbing right turn, thence...

**Rwy 20**, climbing left turn, thence...  
...direct ALS VORTAC. Continue climb in ALS VORTAC holding pattern (SE, right turns, 301° inbound) to depart ALS VORTAC at airway MEA/MCA, all others climb to 16000.

TAKEOFF OBSTACLE NOTES: **Rwy 2**, trees beginning 1070' to 2560' from DER, 197' to 702' left of centerline, 42' up to 72' AGL/7577' up to 7607' MSL.

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## DIVERSE VECTOR AREA (RADAR VECTORS)

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## ALBUQUERQUE, NM

### ALBUQUERQUE INTL SUNPORT (ABQ)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMDT 7 14149 (FAA)

TAKEOFF MINIMUMS: **Rwy 8**, std. w/min. climb of 515' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 3, 30**, climbing left turn direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold W, left turns, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight. **Rwy 8**, climbing right turn direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold W, left turns, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight. **Rwys 12, 21**, climbing right turn direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern (hold W, left turns, 077° inbound) to cross ABQ VORTAC for route of flight. **Rwy 26**, climb direct ABQ VORTAC. If required, continue climb in ABQ VORTAC holding pattern. (Hold W, left turns, 077° inbound) to cross ABQ VORTAC at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES: **Rwy 3**, tank 4961' from DER, 1708' left of centerline, 150' AGL/5466' MSL. Water tower 4984' from DER, 1713' left of centerline, 156' AGL/5468' MSL. **Rwy 12**, electrical equipment 36' from DER, 214' right of centerline, 16' AGL/5315' MSL. **Rwy 21**, terrain beginning 159' from DER, 77' right of centerline, up to 5315' MSL. Terrain beginning 199' from DER, 100' left of centerline, up to 5311' MSL. **Rwy 26**, sign 38' from DER, 431' left of centerline, 14' AGL/5314' MSL. **Rwy 30**, sign 48' from DER, 178' right of centerline, 15' AGL/5315' MSL. Vehicle on road 229' from DER, 546' left of centerline, 19' AGL/5319' MSL. Poles and tower beginning 876' from DER, 480' right of centerline, up to 93' AGL/5393' MSL.

### DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 16203 (FAA)

**Rwy 3, 12, 21, 26, 30**, Heading as assigned by ATC.

**Rwy 8**, Heading as assigned by ATC; requires minimum climb of 470' per NM to 7600. Do not exceed 240Kts until established on assigned heading.

## DOUBLE EAGLE II (AEG)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 08045 (FAA)

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 035° to 11700 before turning right, all others turn left on course.

**Rwy 17**, climb heading 169° to 9400 before turning left, all others turn right on course. **Rwy 22**, climb heading 215° to 9100 before turning left, all others turn right on course.

**Rwy 35**, climb heading 349° to 11000 before turning right, all others turn left on course.

TAKEOFF OBSTACLE NOTES: **Rwy 17**, antenna 64' from DER, 395' left of centerline, 8' AGL/ 5807' MSL. Tree 3482' from DER, 1409' right of centerline, 100' AGL/ 5919' MSL. **Rwy 35**, antenna 53' from DER, 405' right of centerline, 9' AGL/ 5808' MSL.

## ANGEL FIRE, NM

ANGEL FIRE (AXX)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1 08213 (FAA)

TAKEOFF MINIMUMS: **Rwy 35**, NA-obstacles.  
DEPARTURE PROCEDURE: **Rwy 17**, use ANEKE RNAV DEPARTURE.

## ARTESIA, NM

ARTESIA MUNI (ATS)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 17285 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 03**, vegetation 88' from DER, 189' right of centerline, 7' AGL/3524' MSL. Vehicles on road beginning 385' from DER, 407' right of centerline crossing runway extended centerline, up to 15' AGL/3534' MSL. **Rwy 21**, aircraft on tarmac beginning at DER, 147' right of centerline, up to 42' AGL/3591' MSL. Vehicles on road beginning 541' from DER, 638' left of centerline, crossing runway extended centerline, up to 15' AGL/3564' MSL. **Rwy 31**, taxiing aircraft beginning at DER, 114' left of centerline, crossing runway extended centerline, up to 42' AGL/3551' MSL. Vegetation 62' from DER, 493' left of centerline, 8' AGL/3542' MSL. Towers beginning 2596' from DER, 1109' right of centerline, up to 88' AGL/3619' MSL.

## ASPEN, CO

ASPEN-PITKIN COUNTY/SARDY FIELD  
(ASE)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 8 08269 (FAA)

TAKEOFF MINIMUMS: **Rwy 15**, NA-terrain.  
DEPARTURE PROCEDURE: **Rwy 33**, use SARDD DEPARTURE.

## BELEN, NM

ALEXANDER MUNI (E80)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1A 18088 (FAA)

TAKEOFF MINIMUMS: **Rwy 13, 31**, NA - Environmental. **Rwy 3**, std. w/ min. climb of 350' per NM to 12000, or 3300-3 for VCOA. **Rwy 21**, std. w/ min. climb of 325' per NM to 11900, or 3300-3 for VCOA.

VCOA: **Rwy 3, 21**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Alexander Municipal airport at or above 8400 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 21**, power poles beginning 1150' from DER, 275' left of centerline, up to 34' AGL/5236' MSL.

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## BUCKLEY AFB (KBKF),

AURORA, CO

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

11013

Diverse departure not authorized. Use published departure procedures for obstacle avoidance.

## BUENA VISTA, CO

CENTRAL COLORADO RGNL (AEJ)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 03247 (FAA)

TAKEOFF MINIMUMS: **Rwy 15**, std. with a min. climb of 400' per NM to 8200 then 340' per NM to 15500. **Rwy 33**, NA-due to terrain.

DEPARTURE PROCEDURE: **Rwy 15**, use PUEBLO RNAV DEPARTURE. **Rwy 33**, NA-due to terrain.

TAKEOFF OBSTACLE NOTES: **Rwy 15**, tree 4468' from DER, 659' right of centerline, 60' AGL/8159' MSL.

## BURLINGTON, CO

KIT CARSON COUNTY (ITR)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG-A 18032 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 15**, terrain beginning 32' from DER, 321' right of centerline, up to 4213' MSL.

## CANNON AFB (KCVS),

CLOVIS, NM

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 15064

Diverse departure authorized all runways.

TAKEOFF OBSTACLE NOTES: **Rwy 4**, terrain 56' from DER, 500' left of centerline, 4304' MSL. Terrain 46' from DER, 512' left of centerline, 4304' MSL. Terrain 267' from DER, 568' left of centerline, 4304' MSL. Terrain 1064' from DER, 772' left of centerline, 4327' MSL. Terrain 1060' from DER, 784' left of centerline, 4329' MSL. Terrain 1187' from DER, 818' left of centerline, 4327' MSL. **Rwy 13**, terrain 276' from DER, 532' left of centerline, 4281' MSL. Terrain 46' from DER, 512' left of centerline, 4281' MSL. Terrain 16' from DER, 500' left of centerline, 4280' MSL. **Rwy 22**, terrain 554' from DER, 648' left of centerline, 4292' MSL. Terrain 537' from DER, 640' left of centerline, 4295' MSL. **Rwy 31**, terrain 128' from DER, 500' right of centerline, 4297' MSL. Terrain 190' from DER, 551' right of centerline, 4309' MSL. Terrain 259' from DER, 500' right of centerline, 4309' MSL. Terrain 277' from DER, 505' right of centerline, 4311' MSL. Terrain 253' from DER, 568' right of centerline, 4314' MSL.

## CANON CITY, CO

FREMONT COUNTY (1V6)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2 16147 (FAA)

TAKEOFF MINIMUMS: **Rwys 17, 35**, NA-ATC DEPARTURE PROCEDURE: **Rwy 11**, climb on heading 110° and PUB R-275 to PUB VORTAC before proceeding on course. **Rwy 29**, climbing left turn to intercept PUB R-275 to PUB VORTAC before proceeding on course. Do not exceed 210 KIAS until established on PUB R-275 eastbound.

TAKEOFF OBSTACLE NOTES: **Rwy 11**, trees beginning 5' from DER, 214' left of centerline, up to 10' AGL/5384' MSL. Light support structure 9' from DER, 20' right of centerline. 2' AGL/5383' MSL. Light support structure 10' from DER, 20' left of centerline, 2' AGL/5383' MSL. **Rwy 29**, fence 8' from DER, 432' right of centerline, 17' AGL/5450' MSL. NAVAID 10' from DER, 113' right of centerline, 18' AGL/5448' MSL. Vehicles on road beginning 57' from DER, 338' left of centerline, up to 5454' MSL. Vertical structure and fence 119' from DER, 433' right of centerline, up to 14' AGL/5447' MSL. Vehicles on road beginning 186' from DER, left and right of centerline, up to 5454' MSL.

## CARLSBAD, NM

CAVERN CITY AIR TERMINAL (CNM)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 11013 (FAA)

TAKEOFF MINIMUMS: **Rwy 21**, std. w/ min. climb of 206' per NM to 4300, or 1200-3 for climb in visual conditions. **Rwy 26**, std. w/ min. climb of 241' per NM to 4500, or 1300-3 for climb in visual conditions. **Rwy 32L**, std. w/ min. climb of 208' per NM to 4100.

DEPARTURE PROCEDURE: **Rwy 21**, for climb in visual conditions, cross Cavern City Air Terminal at or above 4300 before proceeding on course. **Rwys 26, 32L**, for climb in visual conditions, cross Cavern City Air Terminal at or above 4400 before proceeding on course. **Rwy 32R**, Climb heading 341° to 4100 before turning left.

TAKEOFF OBSTACLE NOTES: **Rwy 3**, bushes beginning 65' from DER, 344' right of centerline, up to 6' AGL/3254' MSL. Vehicle on road 388' from DER, 514' right of centerline, 15' AGL/3260' MSL. **Rwy 8**, pole 604' from DER, 192' right of centerline, 26' AGL/3264' MSL. **Rwy 14L**, bush 110' from DER, 216' left of centerline, 4' AGL/3246' MSL. Localizer 164' from DER, 458' right of centerline, 8' AGL/3250' MSL. Vehicle on road 398' from DER, 121' left of centerline, 15' AGL/3257' MSL. Pole 398' from DER, 129' left of centerline, 20' AGL/3265' MSL. Pole 520' from DER, 27' right of centerline, 24' AGL/3269' MSL. Vehicle on road 720' from DER, 462' right of centerline, 15' AGL/3260' MSL. Pole 837' from DER, 444' right of centerline, 26' AGL/3299' MSL. **Rwy 26**, bush 107' from DER, 193' left of centerline, 6' AGL/3276' MSL. **Rwy 32R**, fence 43' from DER, 333' left of centerline, 4' AGL/3273' MSL.

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## DIVERSE VECTOR AREA (RADAR VECTORS)

## CLAYTON, NM

CLAYTON MUNI AIRPARK (CAO)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 11125 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, std. w/min. climb of 220' per NM to 6700. **Rwy 30**, std. w/min. climb of 257' per NM to 6700.

DEPARTURE PROCEDURE: **Rwy 20**, climb heading 201° to 5500 before turning right. **Rwy 30**, climb heading 301° to 6700 before turning left.

TAKEOFF OBSTACLE NOTES: **Rwy 20**, vehicle on road 106' from DER, crossing left to right, up to 15' AGL/4975' MSL.

## CLOVIS, NM

CLOVIS MUNI (CVN)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG-A 13262 (FAA)

TAKEOFF MINIMUMS: **Rwys 8, 26**, NA-Environmental. **Rwy 4**, NA-Air traffic.

TAKEOFF OBSTACLE NOTES: **Rwy 12**, pole 436' from DER, 500' left of centerline, 33' AGL/4217' MSL. **Rwy 22**, vehicle on road 267' from DER, 507' left of centerline, 15' AGL/4209' MSL. Poles beginning 1323' from DER, 268' right of centerline, up to 31' AGL/4240' MSL.

## COLORADO SPRINGS, CO

CITY OF COLORADO SPRINGS MUNI (COS)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 12A 17257 (FAA)

TAKEOFF MINIMUMS: **Rwy 13**, std. w/min. climb of 250' per NM to 6400, or alternatively with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2000' prior to DER. **Rwy 31**, std. w/min. climb of 220' per NM to 7000. **Rwy 35L**, std. w/min. climb of 250' per NM to 7000. **Rwy 35R**, std. w/min. climb of 220' per NM to 7000.

DEPARTURE PROCEDURE: **Rwy 13**, 17L/R, climbing left turn direct BRK VOR/DME, thence... **Rwy 31**, climb heading 307° to 7000, then climbing right turn direct BRK VOR/DME, thence... **Rwy 35R**, climb heading 352° to 7000, then climbing right turn direct BRK VOR/DME, thence... **Rwy 35L**, climbing right turn direct BRK VOR/DME, thence...

...continue climb in holding pattern (hold NW, LT, 159° inbound) to cross BRK VOR/DME at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES: **Rwy 13**, RADAR antenna 4979' from DER, 1640' left of centerline, 107' AGL/6292' MSL. **Rwy 17L**, runway edge light (REIL) 25' from DER, 115' left and right of centerline, 3' AGL/6104' MSL. **Rwy 35L**, runway edge light (REIL) 39' from DER, 115' right of centerline, 2' AGL/6178' MSL. Tree 5898' from DER, 1773' right of centerline, 50' AGL/6338' MSL.

## DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 2 17229 (FAA)

**Rwy 13**, heading as assigned by ATC; requires minimum climb of 250' per nm to 7400. **Rwy 17L**, heading as assigned by ATC. **Rwy 17R**, heading as assigned by ATC. **Rwy 31**, heading as assigned by ATC; requires minimum climb of 260' per nm to 7200. **Rwy 35L**, heading as assigned by ATC; requires minimum climb of 265' per nm to 7200. **Rwy 35R**, heading as assigned by ATC; requires minimum climb of 240' per nm to 7000.

## CORTEZ, CO

CORTEZ MUNI (CEZ)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 10098 (FAA)

DEPARTURE PROCEDURE: use LEDVE DEPARTURE.

## CRAIG, CO

CRAIG-MOFFAT (CAG)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 4 12096 (FAA)

TAKEOFF MINIMUMS: **Rwy 7**, std. w/min. climb of 510' per NM to 7200, or 2400-3 for climb in visual conditions. **Rwy 25**, std. w/min. climb of 350' per NM to 8200, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 7**, climb direct to CHE VOR/DME, or for climb in visual conditions, cross Craig-Moffat Airport at or above 8500 then proceed on CHE R-247 to CHE VOR/DME, thence .... **Rwy 25**, climbing right turn to intercept CHE VOR/DME radial 265 to CHE VOR/DME, or for climb in visual conditions, Cross Craig-Moffat Airport at or above 8500 then proceed on CHE R-247 to CHE VOR/DME, thence ....

.... Aircraft departing CHE VOR/DME on radials 214° CW 296° climb on course. All other aircraft climb in holding pattern (hold NW, right turns, 108° inbound) to cross CHE VOR/DME at or above; radials 297° CW 076° 11500, radials 077° CW 114° 10200, radials 115° CW 213° 11600. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 7**, vertical structure 108' from DER, 288' left of centerline, 18' AGL/6202' MSL. Multiple trees beginning 450' from DER, 211' left and right of centerline, up to 100' AGL/6276' MSL. Vehicles on road 104' from DER, 513' right to left of centerline, up to 15' AGL/6214' MSL. **Rwy 25**, vehicles on multiple roads beginning 5' from DER, 118' left and right of centerline, up to 15' AGL/6333' MSL. Fence 14' from DER, 499' right of centerline, 5' AGL/6190' MSL. Navigation aid 39' from DER, 93' right of centerline, 4' AGL/6189' MSL. Tree 362' from DER, 435' right of centerline, 100' AGL/6203' MSL. Multiple trees beginning 1457' from DER, 450' left of centerline, up to 100' AGL/6338' MSL. Multiple poles 796' from DER, 625' left of centerline, up to 40' AGL/6285' MSL. Terrain beginning 1941' from DER, 927' left of centerline, up to 6337' MSL. Multiple buildings beginning 5509' from DER, 552' left of centerline, up to 15' AGL/6338' MSL.

## DEL NORTE, CO

ASTRONAUT KENT ROMINGER (RCV)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 17285 (FAA)

TAKEOFF MINIMUMS: **Rwy 3, 21**, NA - turf/dirt runway.DEPARTURE PROCEDURE: **Rwy 6, 24**, use HOMME DEPARTURE.

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## DELTA, CO

### BLAKE FIELD (AJZ)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG 15344 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, std. w/min. climb of 412 to 10200 or 3300-3 for climb in visual conditions. **Rwy 21**, std. w/min. climb of 452 to 10200 or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, DME required, climbing right turn heading 212° to intercept MTJ VOR/DME R-297 to BRICK/MTJ 23.44 DME. . . . **Rwy 21**, DME required, climbing heading 212° to intercept MTJ VOR/DME R-297 to BRICK/MTJ 23.44 DME. . . .

. . . . Climb-in-hold (hold NW, RT, 117° inbound) to cross BRICK at or above 11300.

VCOA: obtain ATC approval for climb in visual conditions when requesting IFR clearance. DME required, climb in visual conditions to cross Blake field airport at or above 8300, fly heading 248° and MTJ VOR/DME R-279 to BRICK/MTJ 23.44 DME, climb-in-hold (hold NW, RT, 117° inbound) to cross BRICK at or above 11300.

TAKEOFF OBSTACLE NOTES: **Rwy 3**, ground beginning 56' from DER, 103' left of centerline up to 5296' MSL. Bush 69' from DER, 224' left of centerline 6' AGL/5197 MSL. Bush 101' from DER, 103' left of centerline 5' AGL/5196' MSL. **Rwy 21**, road beginning 6' from DER, 348' right of centerline 5124' MSL. Bush 29' from DER, 253' right of centerline 2' AGL/5113' MSL.

## DEMING, NM

### DEMING MUNI (DMN)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMD T 2A 11013 (FAA)

TAKEOFF MINIMUMS: **Rwy 4**, NA.

DEPARTURE PROCEDURE: WESTBOUND: **Rwy 8**, climbing left turn heading 214°; **Rwy 22**, climbing right turn heading 302°; **Rwy 26**, climbing right turn heading 275°; intercept DMN VORTAC R-258 then via V94 on course. EASTBOUND: **Rwy 8**, climb direct DMN VORTAC; **Rwys 22, 26**, climbing right turn direct DMN VORTAC; then via V94 on course. NORTHBOUND: **Rwy 8**, climb direct DMN VORTAC; **Rwys 22, 26**, climbing right turn direct DMN VORTAC; then via V110 on course.

TAKEOFF OBSTACLE NOTES: **Rwy 22**, multiple trees and pole beginning 991' from DER, 139' right of centerline, up to 100' AGL/4380' MSL. **Rwy 26**, multiple trees beginning 35' from DER, 88' right of centerline, up to 100' AGL/4365' MSL. Multiple trees beginning 5' from DER, 37' left of centerline, up to 100' AGL/4355' MSL.

## DENVER, CO

### CENTENNIAL (APA)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMD T 5 12320 (FAA)

TAKEOFF MINIMUMS: **Rwy 17L**, std. w/ min. climb of 255' per NM to 6800. **Rwy 17R**, std. w/ min. climb of 370' per NM to 6800.

DEPARTURE PROCEDURE: **Rwy 10**, when departing on courses between 162° CCW to 333° from DER climb heading 103° to 6600 before turning right. All other courses: climbing left turn to intercept DEN VOR/DME R-194 to DEN VOR/DME, thence ...

**Rwys 17L/R**, climb on heading between 350° CW to 162° from DER. All other courses: climbing left turn to intercept DEN VOR/DME R-199 to DEN VOR/DME, thence ...

**Rwy 28**, climb on heading between 333° CW to 103° from DER. All other courses: climbing right turn to intercept DEN VOR/DME R-210 to DEN VOR/DME, thence ...

**Rwys 35L/R**, climb on a heading between 333° CW 162° from DER. All other courses: climb heading 350° to intercept DEN VOR/DME R-211 to DEN VOR/DME, thence ...

. . . . Climb in DEN VOR/DME holding pattern (hold South, right turns, 343° inbound) to 16500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 10**, terrain beginning 369' from DER 30' right of centerline, up to 5854' MSL. Fences beginning 1211' from DER, 233' right of centerline, up to 8' AGL/5841' MSL. Multiple bushes beginning 1378' from DER, 284' right of centerline, up to 6' AGL/5840' MSL. Multiple roads with vehicles beginning 198' from DER, 404' left of centerline, up to 15' AGL/5835' MSL. Terrain 1358' from DER, 253' left of centerline, up to 5830' MSL. **Rwy 17L**, multiple trees beginning 2968' from DER, 761' right of centerline, up to 100' AGL/5976' MSL. **Rwy 17R**, terrain 181' from DER 496' right of centerline, 5887' MSL. Fence 538' from DER, 196' right of centerline, 8' AGL/5886' MSL. Multiple trees beginning 562' from DER, 61' right of centerline, up to 16' AGL/5976' MSL. Multiple light poles beginning 2362' from DER, 256' right of centerline, up to 30' AGL/5942' MSL. Obstruction light on building 3282' from DER, 842' right of centerline, 90' AGL/6021' MSL. **Rwy 28**, terrain beginning 89' from DER, on centerline extending to 514' left to 137' right of centerline, up to 5843' MSL. Windssock 100' from DER, 183' left of centerline, 15' AGL/5832' MSL. Multiple trees beginning 1640' from DER, 731' left of centerline, up to 100' AGL/ 5959' MSL.

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)



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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)



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## DENVER, CO (CON'T)

### DENVER INTL (DEN)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

##### AMDT 3 12320 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb on a heading between 315° CW to 218° from DER. All other courses: climbing right turn, thence ...

**Rwy 8**, climb on a heading between 310° CW to 220° from DER. All other courses: climbing right turn, thence ...

**Rwys 16L, 16R**, climb on a heading between 213° CCW to 353° from DER. All other courses: climbing left turn, thence...

**Rwys 17L, 17R**, climb on a heading between 222° CCW to 353° from DER. All other courses: climbing right turn, thence ...

**Rwy 25**, climb on a heading between 317° CW to 083° or 206° CCW to 083° from DER. All other courses: climbing left turn, thence ...

**Rwy 26**, climb on a heading between 313° CW to 083° or 219° CCW to 083° from DER. All other courses: climbing left turn, thence ...

**Rwys 34L, 34R**, climb on a heading between 313° CW to 172° from DER. All other courses: climbing right turn, thence ...

**Rwys 35L, 35R**, climb on a heading between 313° CW to 172° from DER. All other courses: climbing right turn, thence ...

...direct DEN VOR/DME, climb in DEN VOR/DME holding pattern (hold South, right turns, 343° inbound) to 16500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 7**, sign 21' from DER, 337' left of centerline, 5' AGL/5357' MSL. **Rwy 16L**, multiple signs beginning 126' from DER, 490' left of centerline, up to 7' AGL/5359' MSL. Communication tower 4749' from DER, 1358' left of centerline, 107' AGL/5478' MSL. **Rwy 25**, sign 48' from DER, 450' right of centerline, 6' AGL/5354' MSL. **Rwy 26**, sign 50' from DER, 339' left of centerline, 5' AGL/5356' MSL.

## FRONT RANGE (FTG)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

##### AMDT 3 12320 (FAA)

DEPARTURE PROCEDURE: **Rwy 8**, climb on a heading between 312° CW to 228° from DER. All other courses: climbing left turn direct DEN VOR/DME. Continue climb in DEN VOR/DME holding pattern (hold South, right turns, 343° inbound) to 16500 before proceeding on course.

**Rwy 17**, climb on a heading between 352° CW to 229° from DER. All other courses: climbing right turn direct DEN VOR/DME. Continue climb in DEN VOR/DME holding pattern (hold South, right turns, 343° inbound) to 16500 before proceeding on course. **Rwy 26**, climb on a heading between 315° CW to 083° or between 226° CCW to 083° from DER. All other courses: climbing right turn direct DEN VOR/DME. Continue climb in DEN VOR/DME holding pattern (hold South, right turns, 343° inbound) to 16500 before proceeding on course. **Rwy 35**, climb on a heading between 313° CW to 172° from DER. All other courses: climbing left turn direct DEN VOR/DME. Continue climb in DEN VOR/DME holding pattern (hold South, right turns, 343° inbound) to 16500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 17**, pole 3618' from DER, 516' left of centerline, 43' AGL/5603' MSL. **Rwy 26**, trees beginning 98' from DER, 456' right of centerline, up to 50' AGL/5489' MSL.

## DENVER, CO (CON'T)

### ROCKY MOUNTAIN METROPOLITAN (BJC)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

##### AMDT 6 14317 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb on heading between 350° CW to 160° from DER. All other courses: climbing right turn heading 147° to intercept DEN VOR/DME R-284 to DEN VOR/DME, thence ...

**Rwys 12L, 12R**, climb on heading between 160° CCW to 350° from DER. All other courses: climb heading 112° to intercept DEN VOR/DME R-275 to DEN VOR/DME, thence ...

**Rwy 21**, climb on heading between 160° CCW to 024° from DER. All other courses: climbing left turn heading 044° to intercept den VOR/DME R-272 to DEN VOR/DME, thence ...

**Rwy 30R**, climb on heading between 350° CW to 113° from DER. All other courses: climbing right turn heading 142° to intercept DEN R-280 to DEN VOR/DME, thence ...

**Rwy 30L**, climb on heading between 350° CW to 113° from DER. All other courses: climbing right turn heading 142° to intercept DEN R-279 to DEN VOR/DME, thence... ... climb in DEN VOR/DME holding pattern (hold South, right turns, 343° inbound) to 16500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 3**, pole 432' from DER, 370' right of centerline, 49' AGL/5619' MSL. **Rwy 12L**, ground 1' from DER, 266' left of centerline, 5566' MSL. Poles beginning 11' from DER, 395' left of centerline, 2' AGL/5567' MSL. **Rwy 12R**, poles beginning 7' from DER, 265' right of centerline, 2' AGL/5596' MSL. Lights 8' from DER, 52' left and right of centerline, 2' AGL/5596' MSL. **Rwy 21**, windsock 116' from DER, 209' left of centerline, 10' AGL/5622' MSL. **Rwy 30L**, terrain beginning 23' from DER, 28' left of centerline, up to 5724' MSL. Lights 40' from DER, 76' left and right of centerline, 2' AGL/5676' MSL. Ground beginning 831' from DER, 170' left of centerline, 5698' MSL. Fence beginning 946' from DER, 206' left of centerline, up to 19' AGL/5734' MSL. Vehicles on roads beginning 1425' from DER, 715' left of centerline, 10' AGL/5748' MSL. Trees and poles beginning 1106' from DER, 92' left of centerline, up to 44' AGL/5754' MSL. **Rwy 30R**, ground 1' from DER, 183' right of centerline, 5661' MSL. Light pole 10' from DER, 59' left of centerline, 2' AGL/5661' MSL. Lights beginning 11' from DER, 127' right of centerline, 2' AGL/5567' MSL. Pole 1606' from DER, 917' left of centerline. 44' AGL/5702' MSL.

## DIVERSE VECTOR AREA (RADAR VECTORS)

### AMDT 1 16315 (FAA)

**Rwys 3, 12L/R, 21, 30 L/R**, heading as assigned by ATC.

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## DURANGO, CO

### DURANGO-LA PLATA COUNTY (DRO)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6A 09015 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, std. w/ a min. climb of 215' per NM to 7600, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn to 9000 heading 160° and DRO VOR/DME R-125 to RESER INT, or for climb in visual conditions: Cross Durango-La Plata County Airport Southeast bound at or above 8200 MSL, then proceed on DRO VOR/DME R-125 to RESER INT. **Rwy 21**, climbing right turn to 9500 heading 280° and DRO VOR/DME R-235 to MARKE INT.

TAKEOFF OBSTACLE NOTES: **Rwy 3**, trees beginning 1223' from DER, 794' left of centerline, up to 42' AGL/6741' MSL. Trees beginning 488' from DER, 431' right of centerline, up to 42' AGL/6698' MSL, vehicles on road beginning 8' from DER, right and left of centerline, up to 15' AGL/6706' MSL.

## EAGLE, CO

### EAGLE COUNTY RGNL (EGE)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 13346 (FAA)

TAKEOFF MINIMUMS: **Rwys 7, 25**, 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: For climb in visual conditions cross Eagle County RGNL airport northeast bound at or above 10600 MSL then proceed on RLG R-212 to RLG VOR/DME. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES: **Rwy 7**, runway lights 10' from DER, 33' right and left of centerline, 1' AGL/6549' MSL. Vehicle on roadway 243' from DER, 28' right of centerline, 15' AGL/6562' MSL. Tree 5041' from DER, 1689' right of centerline, up to 55' AGL/6695' MSL. **Rwy 25**, runway lights 10' from DER, 55' right and left of centerline, up to 2' AGL/6462' MSL.

## ERIE, CO

### ERIE MUNI (EIK)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 10294 (FAA)

TAKEOFF MINIMUMS: **Rwy 15**, 500-2 or std. with a min. climb gradient of 270' per NM to 5700.

DEPARTURE PROCEDURE: **Rwy 15**, turn right; **Rwy 33**, turn left; climb direct BJC VOR/DME. Departures on BJC R-340 CW R-150 climb on course. All others climb in BJC holding pattern (NE, left turns 203° inbound) to cross BJC VOR/DME at or above 13300, or comply with RADAR vectors.

## FARMINGTON, NM

### FOUR CORNERS RGNL (FMN)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10210 (FAA)

DEPARTURE PROCEDURE: **Rwys 5, 23, 25**, climbing right turn direct RSK VORTAC. Continue climb in RSK VORTAC holding pattern (hold East, left turn, 252° inbound) to cross RSK VORTAC at or above MEA for route of flight. **Rwy 7**, climb direct RSK VORTAC. Continue climb in RSK VORTAC holding pattern (hold East, left turn, 252° inbound) to cross RSK VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES: **Rwy 5**, sign 27' from DER, 464' right of centerline, 13' AGL/5513' MSL.

Building 4005' from DER, 654' right of centerline, 96' AGL/5608' MSL.

**Rwy 25**, sign 37' from DER, 218' left of centerline, 10' AGL/5479' MSL. Obstruction light on DME 200' from DER, 442' left of centerline, 24' AGL/5493' MSL. Sign 37' from DER, 218' left of centerline, 10' AGL/5479' MSL.

## FORT COLLINS, CO

### NORTHERN COLORADO RGNL (FNL)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 18116 (FAA)

TAKEOFF MINIMUMS: **Rwys 6, 24**, NA-VFR runway.

DEPARTURE PROCEDURE: **Rwy 15**, climb on a heading between 177° CCW to 329° from DER. All other courses: climbing left turn heading 017° to intercept GLL VOR/DME R-242 to GLL VOR/DME, thence...**Rwy 33**, climb on a heading between 323° CW to 148° from DER. All other courses: climbing right turn heading 122° to intercept GLL VOR/DME R-257 to GLL VOR/DME, thence...

...climb in GLL VOR/DME holding pattern (hold NE, right turns, 205° inbound) to 16500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 33**, multiple trees beginning 833' from DER, 516' right of centerline, up to 66' AGL/5025' MSL. Multiple poles beginning 567' from DER, 540' left of centerline, up to 26' AGL/4995' MSL.

## FORT MORGAN, CO

### FORT MORGAN MUNI (FMM)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 16035 (FAA)

TAKEOFF MINIMUMS: **Rwys 17, 35, 8, 26**, NA-Environmental.

TAKEOFF OBSTACLE NOTES: **Rwy 14**, ground and vehicle on road beginning 36' from DER, 157' left of centerline, up to 15' AGL/4528' MSL. Buildings beginning 329' from DER, 577' right of centerline, up to 25' AGL/4527' MSL. **Rwy 32**, ground beginning 13' from DER, 271' right of centerline, up to 4600' MSL.

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## TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND



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## DIVERSE VECTOR AREA (RADAR VECTORS)

## GALLUP, NM

## GALLUP MUNI (GUP)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 2 94230 (FAA)

TAKEOFF MINIMUMS: **Rwy 6**, CAT A,B 1300-2 or std. with a min. climb of 300' per NM until passing 8000. CAT C,D 1600-3 or std. with a min. climb of 320' per NM until passing 8500. **Rwy 24**, 700-2 or std. with a min. climb of 370' per NM until passing 8000.

DEPARTURE PROCEDURE: **Rwy 6**, turn left. **All aircraft** climb direct GUP VORTAC. Departures via GUP R-190 CW R-242 climb on course. Departures via GUP R-243 CW R-189 climb in GUP holding pattern (SW, right turns, 047° inbound) to cross GUP at or above 9000.

## GRAND JUNCTION, CO

## GRAND JUNCTION RGNL (GJT)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 11 08269 (FAA)

TAKEOFF MINIMUMS: **Rwy 4**, NA-obstacles. **Rwy 22**, NA-obstacles, facility reception (JNC VOR/DME).  
DEPARTURE PROCEDURE: **Rwys 11, 29**, use MONUMENT DEPARTURE.

## GRANTS, NM

## GRANTS-MILAN MUNI (GNT)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

ORIG 97254 (FAA)

TAKEOFF MINIMUMS: **Rwy 13**, 2400-2 or std. with a min. climb of 420' per NM to 11000. **Rwy 31**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb runway heading to join V12 at or above 11000 before proceeding on course.

## GREELEY, CO

## GREELEY-WELD COUNTY (GXY)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 4 14261 (FAA)

DEPARTURE PROCEDURE: **Rwy 10**, climb on a heading between 292° CW to 214° from DER. All other headings: climbing left turn, thence...

**Rwy 17**, climb on a heading between 212° CCW to 350° from DER. All other headings: climbing left turn, thence...

**Rwy 28**, climb on a heading between 294° CW to 097° or 209° CCW to 097° from DER. All other headings: climbing right turn, thence...

**Rwy 35**, climb on a heading between 293° CW to 169° from DER. All other headings: climbing right turn, thence...  
...direct GLL VOR/DME, climb in GLL VOR/DME holding pattern (hold NE, right turns, 205° inbound) to 16500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 28**, tree 1634' from DER, 836' left of centerline, 56' AGL/4717' MSL. Fence 237' from DER, 422' right of centerline, 11' AGL/4670' MSL. Fence 99' from DER, 423' left of centerline, 10' AGL/4665' MSL. **Rwy 35**, multiple trees beginning 1860' from DER, 595' right of centerline, up to 67' AGL/4785' MSL. Tree 2854' from DER, 524' left of centerline, 73' AGL/4770' MSL.

## GREELEY, CO (CON'T)

GREELEY-WELD COUNTY (GXY) (CON'T)  
DIVERSE VECTOR AREA (RADAR VECTORS)  
ORIG 17341 (FAA)

**Rwy 10**, heading as assigned by ATC. **Rwy 17**, heading as assigned by ATC. **Rwy 28**, heading as assigned by ATC. **Rwy 35**, heading as assigned by ATC.

## GUNNISON, CO

## GUNNISON-CRESTED BUTTE RGNL (GUC)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 8 16203 (FAA)

TAKEOFF MINIMUMS: **Rwy 6**, std. w/ min. climb of 500' per NM to 9500, or 2500-3 for climb in VCOA. **Rwy 24**, std. w/ min. climb of 420' per NM to 9300, or 2500-3 for climb in VCOA. **Rwy 17, 35**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 6**, climb heading 077° to 9500 then climbing right turn direct HBU VOR/DME, thence... **Rwy 24**, climb heading 242° to 9300 then climbing left turn direct HBU VOR/DME, thence...

...continue climb in HBU VOR/DME holding pattern (hold SW, LT, 031° inbound) to depart HBU VOR/DME at or above MEA/MCA for route of flight.

VCOA: **Rwy 6, 24**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Gunnison-Crested Butte Rgnl airport at or above 10000, then on HBU R-31 to HBU VOR/DME, thence... continue climb in HBU VOR/DME holding pattern (hold SW, LT, 031° inbound) to depart HBU VOR/DME at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES: **Rwy 06**, trees beginning 123' from DER, 478' right of centerline, up to 18' AGL/7697' MSL. Vehicles on road 137' from DER, 529' left of centerline, 15' AGL/7693' MSL. Trees beginning 1761' from DER, 109' left of centerline, up to 7745' MSL. Trees beginning 4899' from DER, 792' left of centerline, up to 7821' MSL. Poles beginning 1 NM from DER, 1906' left of centerline, up to 38' AGL/7850' MSL. Grd and trees beginning 1.4 NM from DER, 1520' left of centerline, up to 8034' MSL. Pole 1.5 NM from DER, 359' right of centerline, 26' AGL/7933' MSL. Power transmission line, vehicles on road, grd, beginning 1.7 NM from DER, 1200' left of centerline, up to 8105' MSL. Vehicles on road 1.9 NM from DER, 2288' left of centerline, 15' AGL/8070' MSL. **Rwy 24**, vehicles on road 570' from DER, 537' right of centerline, 15' AGL/7674' MSL. Trees beginning 757' from DER, 603' left of centerline, up to 54' AGL/7704' MSL. Pole 1126' from DER, 789' right of centerline, 7688' MSL. Trees beginning 1155' from DER, crossing centerline, up to 52' AGL/7721' MSL. Grd 1961' from DER, 1012' right of centerline, 7711' MSL. Trees beginning 1991' from DER, crossing centerline, up to 68' AGL/7717' MSL. Pole, grd, trees, beginning 2039' from DER, 191' right of centerline, up to 29' AGL/7726' MSL. Poles and bldgs beginning 2471' from DER, 1072' right of centerline, up to 7732' MSL. Tree 2614' from DER, 1033' right of centerline, 7734' MSL. Bldgs beginning 2656' from DER, 731' right of centerline, up to 34' AGL/7737' MSL. Pole, bldg, grd, beginning 2812' from DER, 902' right of centerline, up to 7754' MSL. Grd beginning 3114' from DER, 1153' right of centerline, up to 7761' MSL. Vehicles on road beginning 3439' from DER, 1229' right of centerline, 15' AGL/7771' MSL. Poles beginning 4262' from DER, 1459' right of centerline, up to 7800' MSL. Vehicles on road and poles beginning 4476' from DER, 1541' right of centerline, up to 7796' MSL.

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## DIVERSE VECTOR AREA (RADAR VECTORS)





# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)



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## HAYDEN, CO

YAMPA VALLEY (HDN)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 3 09183 (FAA)

TAKEOFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 400' per NM to 12200, or 3200-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 245' per NM to 9500, or 3200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb on heading 147° to 12200 before proceeding on course. **Rwy 28**, climb on heading 238° to 9500 before proceeding on course. **Rwys 10, 28**, for climb in visual conditions: cross Yampa Valley airport at or above 9700 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 10**, tree 241' from DER, 420' right of centerline, 100' AGL/6699' MSL. Tree 644' from DER, 340' left of centerline, 100' AGL/6699' MSL. Multiple transmission towers, beginning 3606' from DER, left to right of centerline, up to 145' AGL/6745' MSL. Terrain beginning 1714' from DER, 707' right of centerline, up to 6676' MSL.

## HOBBS, NM

LEA COUNTY RGNL (HOB)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

ORIG-A 12292 (FAA)

TAKEOFF OBSTACLE NOTES: **Rwy 3**, multiple trees beginning 546' from DER, 811' right of centerline, up to 40' AGL/3700' MSL. Sign 822' from DER, 694' left of centerline, 38' AGL/3676' MSL. **Rwy 12**, road at DER, 112' right of centerline, 15' AGL/3654' MSL. **Rwy 17**, obstruction light on glideslope, 1014' from DER, 486' right of centerline, 37' AGL/3687' MSL. **Rwy 21**, tree 1304' from DER, 726' right of centerline, 46' AGL/3690' MSL. **Rwy 30**, wind sock 103' from DER, 280' left of centerline, 16' AGL/3675' MSL, pole 1035' from DER, 540' right of centerline, 25' AGL/3689' MSL. **Rwy 35**, multiple fences, roads and poles beginning 103' from DER, across centerline, up to 37' AGL/3696' MSL, pole 299' from DER, 495' left of centerline, 25' AGL/3689' MSL, pole 293' from DER, 94' right of centerline, 25' AGL/3682' MSL.

## HOLLOMAN AFB (KHMN)

ALAMOGORDO, NM

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 2, 18032

TAKEOFF MINIMUMS: **Rwy 4**, 8000-3 or std. w/ min. climb of 473' per NM to 14,100. **Rwy 7**, NA. **Rwy 16**, 8000-3 or std. w/ min. climb of 496' per NM to 14,100. **Rwy 22**, 8000-3 or std. w/ min. climb of 449' per NM to 14,100. **Rwy 25**, 8000-3 or std. w/ min. climb of 488' per NM to 14,100. **Rwy 34**, 8000-3 or std. w/ min. climb of 475' per NM to 14,100. **Rwys 4, 16, 22, 25, 34**, RADAR REQUIRED (When R-5103C not under Holloman Approach or Cherokee control).

TAKEOFF OBSTACLE NOTES: **Rwy 4**, terrain 4084' MSL, 16' from DER, 420' right of cntrln. Aircraft tail 20' AGL/4101' MSL, 60' from DER, 546' right of cntrln. Tree 180' AGL/4301' MSL, 1.2 NM from DER, 2504' right of cntrln. Tree 180' AGL/4301' MSL, 1.3 NM from DER, 2488' right of cntrln. **Rwy 16**, tree 60' AGL/4113' MSL, 3326' from DER, 925' left of cntrln. Building 10' AGL/4059' MSL, 62' from DER, 270' right of cntrln. Building 10' AGL/4060' MSL, 57' from DER, 270' left of cntrln. Tree 60' AGL/4110' MSL, 3084' from DER, 1216' left of cntrln. Terrain 4052' MSL, 8' from DER, 320' left of cntrln. Terrain 4052' MSL, 0' from DER, 500' left of cntrln. Building 9' AGL/4059' MSL, 124' from DER, 90' left of cntrln. Tree 180' AGL/4219' MSL, 1.1 NM from DER, 980' left of cntrln. Tree 180' AGL/4223' MSL, 5877' from DER, 2075' left of cntrln. **Rwy 22**, terrain 4058' MSL, 0' from DER, 500' left of cntrln. Terrain 4058' MSL, 14' from DER, 327' left of cntrln. Terrain 4058' MSL, 0' from DER, 28' right of cntrln. Terrain 4058' MSL, 53' from DER, 391' right of cntrln. Terrain 4058' MSL, 0' from DER, 353' right of cntrln. Terrain 4059' MSL, 0' from DER, 500' right of cntrln. Aircraft tail 20' AGL/4069' MSL, 26' inward of DER, 414' left of cntrln. Tree 180' AGL/4252' MSL, 1.2 NM from DER, 13' right of cntrln. Tree 180' AGL/4258' MSL, 5894' from DER, 2081' right of cntrln. **Rwy 25**, vehicle 12' AGL/4064' MSL, 1090' from DER, 591' left of cntrln. Aircraft tail 20' AGL/4069' MSL, 121' from DER, 232' left of cntrln. Terrain 4054' MSL, 0' from DER, 500' left of cntrln. Terrain 4055' MSL, 17' from DER, 450' left of cntrln. Terrain 4055' MSL, 18' from DER, 475' right of cntrln. Terrain 4055' MSL, 0' from DER, 500' right of cntrln. Terrain 4055' MSL, 63' from DER, 517' right of cntrln. Tree 180' AGL/4258' MSL, 1.3 NM from DER, 205' left of cntrln. Tree 180' AGL/4252' MSL, 6029' from DER, 1287' right of cntrln. **Rwy 34**, tree 180' AGL/4268' MSL, 1.1 NM from DER, 1408' left of cntrln. Tree 180' AGL/4278' MSL, 5950' from DER, 1781' right of cntrln. Terrain 4083' MSL, 28' from DER, 290' right of cntrln.

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)



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## HOLYOKE, CO

### HOLYOKE (HEQ)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 11349 (FAA)

TAKEOFF MINIMUMS: **Rwy 32**, 300-1 or std. w/min. climb of 280' per NM to 4000.TAKEOFF OBSTACLE NOTES: **Rwy 14**, trees 2011' from DER, 29' left of centerline, 100' AGL/3829' MSL. **Rwy 32**, trees 1009' from DER, 697' left of centerline, 100' AGL/3839' MSL. Tower 4448' from DER, 1036' left of centerline, 165' AGL/3886' MSL.

## KREMMLING, CO

### MC ELROY AIRFIELD (20V)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

TAKEOFF MINIMUMS: **Rwy 9**, 2600-2 or std. with a min. climb of 370' per NM to 12700. **Rwy 27**, 3200-2 or std. with a min. climb of 500' per NM to 12700.DEPARTURE PROCEDURE: **Rwy 9**, climb runway heading to 10000, then climbing right turn. **Rwy 27**, climb runway heading to 10900, then climbing left turn. **All aircraft** proceed direct RLG VOR/DME. Continue climb to 13,000 in RLG holding pattern (hold SW, left turns, 051° inbound).

## LA JUNTA, CO

### LA JUNTA MUNI (LHX)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 16091 (FAA)

DEPARTURE PROCEDURE: **Rwy 8**, climb via heading 080°. **Rwy 12**, climb via heading 120°. **Rwy 26**, turn left heading 160°. **Rwy 30**, turn left heading 140°. **All aircraft**, intercept LAA R-238 (V210) to LAA VOR/DME. When at or above 8000 proceed on course.TAKEOFF OBSTACLE NOTES: **Rwy 26**, rod 196' from DER, 445' left of centerline, 10' AGL/4241' MSL. fence 224' from DER, 198' right of centerline, 7' AGL/4235' MSL.

## LAMAR, CO

### LAMAR MUNI (LAA)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 14037 (FAA)

DEPARTURE PROCEDURE: Rwys 8,36, climbing left turn, thence...

**Rwy 18**, climbing left/right turn, thence...**Rwy 26**, climbing right turn, thence...

Direct LAA VOR/DME. Aircraft departing LAA R-048 CW R-118 climb on course. All others continue climbing in LAA holding pattern (N, right turns, 169° inbound) to 6000 before proceeding on course.

## LAS CRUCES, NM

### LAS CRUCES INTL (LRU)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 16231 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 8, 12, 22, 26, 30**, 2500-3 for climb in visual conditions.

VCOA: All runways, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Las Cruces Intl southwest bound at or above 6500 on CUS VOR/DME R-038 to ZAXOX INT/DMN 27 DME. Continue climb in ZAXOX holding pattern (hold W, right turns, 094° inbound) to cross ZAXOX at or above MEA or assigned altitude for route of flight.

TAKEOFF OBSTACLE NOTES: **Rwy 04**, bush beginning 67' from DER, 169' right of centerline, up to 8' AGL/4458' MSL. Tree, bush, vegetation beginning 122' from DER, 180' right of centerline, up to 10' AGL/4460' MSL. Tree, bush, pole, It support structure beginning 8' from DER, 29' left of centerline, up to 4459' MSL. Bush beginning 187' from DER, 372' left of centerline, up to 4462' MSL. Tree, bush, vegetation beginning 192' from DER, 331' left of centerline, up to 4462' MSL. Bush, tree beginning 347' from DER, 219' left of centerline, up to 4463' MSL. Tree 463' from DER, 427' left of centerline, 4464' MSL. Tree 480' from DER, 254' left of centerline, 4465' MSL. Tree 520' from DER, 251' left of centerline, 4467' MSL. **Rwy 8**, pole, It support structure, bush beginning 12' from DER, 29' left of centerline, up to 9' AGL/4437' MSL. Bush beginning 46' from DER, 428' left of centerline, up to 4439' MSL. Bush 87' from DER, 487' left of centerline, 4440' MSL. Bush beginning 188' from DER, 371' left of centerline, up to 5' AGL/4443' MSL. Bush 240' from DER, 359' left of centerline, 4444' MSL. Trees beginning 360' from DER, 504' left of centerline, up to 4448' MSL. Tree 542' from DER, 643' left of centerline, 4451' MSL. **Rwy 12**, bush beginning 106' from DER, 351' right of centerline, up to 4443' MSL. **Rwy 22**, bush 30' from DER, 489' right of centerline, 4440' MSL. Bush 5' from DER, 365' left of centerline, 4439' MSL. Pole, It support structure beginning 11' from DER, 30' right of centerline, up to 3' AGL/4437' MSL. Tree, bush beginning 31' from DER, 352' left of centerline, up to 4441' MSL. Tree, bush beginning 126' from DER, 221' left of centerline, up to 9' AGL/4444' MSL. **Rwy 26**, vegetation, It support structure, pole beginning 4' from DER, 30' right of centerline, up to 5' AGL/4440' MSL. Bush beginning 24' from DER, 358' right of centerline, up to 4444' MSL. Tree, bush beginning 38' from DER, 245' right of centerline, up to 4445' MSL. Tree, bush beginning 43' from DER, 173' right of centerline, up to 8' AGL/4446' MSL. Tree, bush, vegetation beginning 147' from DER, 260' right of centerline, up to 11' AGL/4449' MSL. Bush 27' from DER, 451' left of centerline, 4439' MSL. **Rwy 30**, tree 12' from DER, 276' right of centerline, 4463' MSL. Tree, bush beginning 15' from DER, 290' right of centerline, up to 10' AGL/4465' MSL. Tree 52' from DER, 429' right of centerline, 11' AGL/4466' MSL. Trees beginning 135' from DER, 279' right of centerline, up to 13' AGL/4468' MSL. Trees beginning 97' from DER, 318' left of centerline, up to 4466' MSL. Trees beginning 230' from DER, 316' left of centerline, up to 4467' MSL. Tree 420' from DER, 544' left of centerline, 4468' MSL.

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## LAS VEGAS, NM

### LAS VEGAS MUNI (LVS)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1 06103 (FAA)

DEPARTURE PROCEDURE: **Rwys 2, 14** turn left/right. **Rwy 20**, turn left (except via FTI R-215). **Rwy 32**, turn right.

Departures via FTI VORTAC R-001 CW R-215 climb on course. Departures via FTI VORTAC R-216 CW R-360 proceed direct FTI VORTAC. Climb in FTI VORTAC holding pattern (hold north, left turn, 192° inbound) to cross FTI at airway MEA/MCA. (NOTE: climb in hold not authorized for turbojet aircraft).

## LEADVILLE, CO

### LAKE COUNTY (LXV)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 2 08101 (FAA)

DEPARTURE PROCEDURE: **Rwy 16**, use LOZUL (RNAV)

DEPARTURE. **Rwy 34**, use DAVVY (RNAV)

DEPARTURE.

## LONGMONT, CO

### VANCE BRAND (LMO)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1 12040 (FAA)

DEPARTURE PROCEDURE: **Rwy 11**, climbing left turn to intercept GLL VOR/DME R-221 to 7000 ... **Rwy 29**, climbing right turn to intercept GLL VOR/DME R-221 to 7000 ...

... All aircraft proceed on GLL R-221 to GLL VOR/DME. Cross GLL VOR/DME at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES: **Rwy 11**, trees beginning 130' from DER, 191' right of centerline, up to 80' AGL/5119' MSL. Vehicles on roadway, 449' from DER, 395' left and right of centerline, 17' AGL/5046' MSL. Trees beginning 1383' from DER, 434' left of centerline, up to 80' AGL/5109' MSL. **Rwy 29**, trees beginning 4105' from DER, 220' left of centerline, up to 80' AGL/5189' MSL.

## LOS ALAMOS, NM

### LOS ALAMOS (LAM)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1 12152 (FAA)

TAKEOFF MINIMUMS: **Rwy 27**, NA-obstacles and airport restriction.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 092° to intercept SAF R-354. Northbound climbing to 11000 on V83. Southbound climbing to 9000 on V83.

TAKEOFF OBSTACLE NOTES: **Rwy 9**, terrain and trees beginning 101' from DER, 178' left and right of centerline, up to 60' AGL/7139' MSL.

## LOVINGTON, NM

### LEA COUNTY-ZIP FRANKLIN MEMORIAL (E06)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1 99364 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb runway heading to 4700 before turning on course.

TAKEOFF OBSTACLE NOTES: **Rwy 12, 35'** AGL power line 1250' from DER 150' right of centerline. **Rwy 21, 40'** AGL tower 936' from DER 273' right of centerline. **Rwy 30, 50'** AGL windmill 1800' from DER 50' right of centerline.

## MEEKER, CO

### MEEKER (EEO)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1 08157 (FAA)

TAKEOFF MINIMUMS: **Rwys 3, 21**, 4100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3, 21**, for climb in visual conditions: cross Meeker Airport at or above 10500 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 21**, multiple trees beginning 843' from DER, 20' left of centerline, up to 100' AGL/7190' MSL. Multiple trees beginning 227' from DER, 187' right of centerline, up to 100' AGL/6862' MSL.

## MONTE VISTA, CO

### MONTE VISTA MUNI (MVI)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 4 17341 (FAA)

TAKEOFF MINIMUMS: **Rwys 10, 16, 28, 34**, NA - Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 2**, climbing right turn direct ALS VORTAC, thence ... **Rwy 20**, climbing left turn direct ALS VORTAC, thence ...  
... climb-in-holding pattern (SE, right turn, 301° inbound) to cross ALS VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES: **Rwy 2**, NAVAIID 10' from DER, 9' left of centerline, 2' AGL/7611' MSL. Tree 14' from DER, 203' right of centerline, 7612' MSL. Tree 111' from DER, 464' right of centerline, 8' AGL/7614' MSL. Tank 313' from DER, 444' left of centerline, 18' AGL/7626' MSL. Traverse way beginning 317' from DER, 383' right of centerline, up to 7621' MSL. Tower, poles beginning 401' from DER, 396' left of centerline, up to 48' AGL/7658' MSL. Trees, poles beginning 910' from DER, 411' right of centerline, up to 57' AGL/7665' MSL. Tree 2558' from DER, 126' left of centerline, 7674' MSL. **Rwy 20**, NAVAIID 11' from DER, 9' left of centerline, 7613' MSL. Fence 67' from DER, 283' left of centerline, 9' AGL/7615' MSL.

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## MONTROSE, CO

MONTROSE RGNL (MTJ)  
TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMDT 4 09127 (FAA)  
DEPARTURE PROCEDURE: Use MONTROSE  
DEPARTURE.

## MORIARTY, NM

MORIARTY (OEO)  
TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG 16147 (FAA)  
DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079°  
to 7100 before proceeding on course. **Rwy 18**, climb  
heading 169° to 6900 before proceeding on course. **Rwy**  
**26, 36**, climbing right turn direct OTO VOR, continue climb  
in OTO VOR holding pattern (hold East, RT, 254.00  
inbound) to cross OTO VOR at or above mea for route of  
flight.  
TAKEOFF OBSTACLE NOTES: **Rwy 8**, fence 86' from  
DER, 393' right of centerline, 4' AGL/6189' MSL. **Rwy 26**,  
bush 4' from DER, 462' right of centerline, 6207' MSL.  
Bush 67' from DER, 9' left of centerline, 6206' MSL. Tree  
1689' from DER, 395' right of centerline, 6248' MSL. Tree  
1851' from DER, 248' right of centerline, 49' AGL/6256'  
MSL. **Rwy 36**, windsock 63' from DER, 323' right of  
centerline, 11' AGL/6193' MSL. AWOS antenna 778' from  
DER, 605' left of centerline, 31' AGL/6218' MSL. Power  
transmission line 1323' from DER, 389' left of centerline,  
6222' MSL.

## NUCLA, CO

HOPKINS FIELD (AIB)  
TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG 07130 (FAA)  
TAKEOFF MINIMUMS: **Rwys 11, 29**, NA-environmental  
DEPARTURE PROCEDURE: **Rwys 5, 23**, use NUCLA  
(RNAV) DEPARTURE.

## PAGOSA SPRINGS, CO

STEVENS FIELD (PSO)  
TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG 08045 (FAA)  
TAKEOFF MINIMUMS: **Rwy 1**, std. w/ min. climb of 437'  
per NM to 9600, or 1900-3 for climb in visual conditions.  
**Rwy 19**, std. w/ min. climb of 296' per NM to 9300, or  
1900-3 for climb in visual conditions.  
DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via  
heading 216° to intercept DRO VOR/DME R-066 to DRO  
VOR/DME .... for climb in visual conditions cross Stevens  
Field airport south bound at or above 9400 MSL, then via  
DRO VOR/DME R-066 to DRO VOR/DME ....  
**Rwy 19**, climb via heading 194° to intercept DRO VOR/  
DME R-075 to DRO VOR/DME .... for climb in visual  
conditions cross Stevens Field airport south bound at or  
above 9400 MSL, then via DRO VOR/DME R-066 to DRO  
VOR/DME ....  
... thence cross DRO VOR/DME at MEA/MCA for  
direction of flight before proceeding on course.  
TAKEOFF OBSTACLE NOTES: **Rwy 1**, terrain beginning  
30' from DER, 53' left of centerline, up to 7697' MSL.  
Terrain beginning 127' from DER, 69' right of centerline,  
up to 7681' MSL. Multiple trees beginning 940' from DER,  
left and right of centerline, up to 100' AGL/7739' MSL. **Rwy**  
**19**, multiple trees beginning 664' from DER, 156' left of  
centerline, up to 100' AGL/7693' MSL. Multiple trees  
beginning 1625' from DER, 5' right of centerline, up to 100'  
AGL/7698' MSL.

## PORTALES, NM

PORTALES MUNI (PRZ)  
TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG 12152 (FAA)  
TAKEOFF OBSTACLE NOTES: **Rwy 8**, train on tracks, 624'  
from DER, left and right of centerline, up to 23' AGL/4087'  
MSL. Terrain beginning 35' from DER, left and right of  
centerline, 4064' MSL. Vehicles on road, 794' from DER,  
left and right of centerline, up to 17' AGL/4081' MSL. **Rwy**  
**19**, terrain beginning 13' from DER, left and right of  
centerline, 4080' MSL. **Rwy 26**, terrain beginning 15' from  
DER, left and right of centerline, 4074' MSL.

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## PUEBLO, CO

### PUEBLO MEMORIAL (PUB)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 7 16147 (FAA)

TAKEOFF MINIMUMS: **Rwys 8L, 26R**, NA, environmental.**Rwy 35**, 400-2¼ or std. w/min. climb of 343' per NM to 5200.DEPARTURE PROCEDURE: **Rwy 8R**, climb heading 080° to 5500, then climbing left turn to intercept PUB R-045 to PUB VORTAC, thence ...**Rwy 17**, climb heading 170° to 5800, then climbing left turn on heading 050° and PUB R-185 to PUB VORTAC, thence ...**Rwy 26L**, climb heading 260° to 5700, then climbing left turn on heading 070° and PUB R-225 to PUB VORTAC, thence ...**Rwy 35**, climb heading 350° to 5200, then climbing right turn on heading 150° and PUB R-005 to PUB VORTAC, thence ...

... Continue climb in PUB VORTAC holding pattern (hold E, right turns, 249° inbound) to cross PUB VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES: **Rwy 8R**, rising terrain 378' from DER, 594' left of centerline, up to 4859' MSL. **Rwy 17**, pole 666' from DER, 661' right of centerline, 46' AGL/4876' MSL. **Rwy 26L**, rising terrain 26' from DER, 497' right of centerline, up to 4679' MSL. **Rwy 35**, rising terrain 178' from DER, left and right of centerline, up to 4769' MSL. Bushes beginning 23' from DER, left and right of centerline, up to 13' AGL/4750' MSL. Transmission line towers beginning 1.1 NM from DER, left and right of centerline, up to 57' AGL/4950' MSL. Radar reflector 995' from DER, on centerline, 4' AGL/4757' MSL. Tree 3604' from DER, 1452' right of centerline, 4889' MSL. Tree 1.5 NM from DER, 1854' right of centerline, 5069' MSL. Terrain 1.8 NM from DER, 3169' right of centerline, 5020' MSL.

## RATON, NM

### RATON MUNI/CREWS FIELD (RTN)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 11097 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, std. w/ min. climb of 251' per NM to 9600 or 2100-3 for climb in visual conditions.**Rwy 7**, std. w/ min. climb of 367' per NM to 9300 or 2100-3 for climb in visual conditions.DEPARTURE PROCEDURE: **Rwy 2**, climbing right turn heading 090° and CIM VORTAC R-040 Northeast bound to airway MEA, then on course to assigned altitude, or for climb in visual conditions, cross Raton Muni/Crews Field at or above 8400 before proceeding on course. **Rwy 7**, for climb in visual conditions, cross Raton Muni/Crews Field at or above 8400 before proceeding on course. **Rwy 20**, climb on CIM VORTAC R-040 Southwest bound to airway MEA, if not at MEA by CIM VORTAC, turn south on V263-611 until reaching MEA, then on course to assigned altitude. **Rwy 25**, climbing left turn heading 227° and CIM VORTAC R-040 Southwest bound to airway MEA, if not at MEA by CIM VORTAC, turn South on V263-611 until reaching MEA, then on course to assigned altitude.

## RIFLE, CO

### RIFLE GARFIELD COUNTY (RIL)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 11 18032 (FAA)

TAKEOFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 400' per NM to 11900 or 5400 - 5 for VCOA.DEPARTURE PROCEDURE: **Rwy 8**, DME required. Climb on RIL VOR/DME R-083 to ZOBAK/7.41 DME, then climbing left turn direct RIL VOR/DME. Climb in RIL VOR/DME holding pattern (hold E, right turn, 263° inbound) to cross RIL VOR/DME at or above MEA/MCA before proceeding enroute. **Rwy 26**, use SQUAT departure.VCOA: **Rwy 8**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Rifle Garfield County Airport at or above 10800 before proceeding on course.TAKEOFF OBSTACLE NOTES: **Rwy 8**, terrain beginning 155' from DER, 380' right of centerline, up to 5551' MSL. Pole 4049' from DER, 1379' right of centerline, 42' AGL/5642' MSL. Obstruction light on NDB tower, 41' from DER, 300' left of centerline, 46' AGL/5586' MSL.

## ROSWELL, NM

### ROSWELL INTL AIR CENTER (ROW)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG-A 11069 (FAA)

TAKEOFF MINIMUMS: **Rwys 12, 30**, NA. Runway closed.DEPARTURE PROCEDURE: **Rwy 35**, climbing left turn to 6000 via heading 277° to intercept CME R-323, upon reaching 6000 proceed on course.

## RUIDOSO, NM

### SIERRA BLANCA RGNL (SRR)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 89124 (FAA)

TAKEOFF MINIMUMS: **Rwys 6,24**, 5200-3 or std. with a min. climb of 420' per NM to 12100'.DEPARTURE PROCEDURE: **Rwy 6**, climb at 385' per NM to 9100' direct CEP NDB, continue climb in holding pattern ("hold E, left turns, 273° inbound) to cross CEP NDB at or above the MEA for direction of flight. \*Do not exceed 230 kts in holding pattern. **Rwy 24**, immediate climbing left turn to 9100' direct CEP NDB, continue climb in holding pattern ("hold E, left turns, 273° inbound) to cross CEP NDB at or above the MEA for direction of flight. \*Do not exceed 230 kts in holding pattern.

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## SALIDA, CO

HARRIET ALEXANDER FIELD (ANK)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 14261 (FAA)

TAKEOFF MINIMUMS: **Rwys 6, 24**, 6800-3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwys 6, 24**, for climb in visual conditions; cross Harriet Alexander Field at or above 14200 MSL. For westbound V-95, climb on heading 263° to MEA for route of flight then proceed on course. For eastbound V-95, climb on heading 162° to MEA for route of flight then proceed on course. Obtain ATC approval for climb in visual conditions when requesting IFR clearance.

TAKEOFF OBSTACLE NOTES: **Rwy 6**, trees beginning 1' from DER, 376' right of centerline, up to 100' AGL/7459' MSL. Navoids 8' from DER, left and right of centerline, up to 3' AGL/7387' MSL. Tree 9' from DER, 427' left of centerline, 100' AGL/7419' MSL. Fence 10' from DER, 299' left of centerline, 8' AGL/7391' MSL. Tree 61' from DER, 283' left of centerline, 73' AGL/7393' MSL. Vehicles on road 62' from DER, 181' right of centerline, up to 10' AGL/7407' MSL. **Rwy 24**, pole 9' from DER, 27' left of centerline, 2' AGL/7525' MSL. Trees beginning 24' from DER, 214' right of centerline, 35' AGL/7554' MSL.

Vehicles on road beginning 111' from DER, left and right of centerline, 15' AGL/7553' MSL. Multiple towers and trees beginning 544' from DER, left and right of centerline, up to 57' AGL/7616' MSL. Fence line beginning 598' from DER, left and right of centerline, up to 8' AGL/7542' MSL. Multiple poles and trees beginning 667' from DER, 215' right of centerline, up to 82' AGL/7641' MSL. Multiple poles and vehicles on road beginning 2066' from DER, 898' right of centerline, up to 31' AGL/7631' MSL. Multiple towers and trees beginning 2119' from DER, 46' left of centerline, up to 105' AGL/7664' MSL. Multiple buildings and poles 5236' from DER, 392' right of centerline, up to 43' AGL/7682' MSL. Trees beginning 5456' from DER, 392' right of centerline, up to 100' AGL/7682' MSL. Multiple poles and trees beginning 1.2 NM from DER, 849' right of centerline, up to 100' AGL/7899' MSL. Multiple poles and trees beginning 1.3 NM from DER, 2155' right of centerline, up to 48' AGL/7764' MSL.

## SANTA FE, NM

SANTA FE MUNI (SAF)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 4 17005 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, std. w/min. climb of 295' per NM to 9000. **Rwy 28**, std. w/min. climb of 280' per NM to 7800.

DEPARTURE PROCEDURE: **Rwy 2, 10, 33**, Climbing right turn direct SAF VORTAC, thence... **Rwy 15**, Climb direct SAF VORTAC, thence... **Rwy 20, 28**, Climbing left turn direct SAF VORTAC, thence... continue climb in SAF VORTAC holding pattern (hold se, right turns, 332° inbound) to cross SAF VORTAC at or above airway MEA/MCA for direction of flight.

TAKEOFF OBSTACLE NOTES: **Rwy 10**, vehicle on road beginning 7' from DER, on centerline, up to 15' AGL/6308' MSL. Vehicle on road beginning 172' from DER, 340' left of centerline, up to 15' AGL/6319' MSL. **Rwy 15**, vegetation 75' from DER, 212' left of centerline, 15' AGL/6279' MSL. **Rwy 20**, tree 85' from DER, 354' left of centerline, 13' AGL/6276' MSL. Rising terrain 231' from DER, 471' right of centerline, 6282' MSL. **Rwy 28**, bush 77' from DER, 479' right of centerline, 6290' MSL. Pole 1.3 NM from DER, 1166' right of centerline, up to 98' AGL/6496' MSL. Pole 1.6 NM from DER, 2549' left of centerline, 78' AGL/6561' MSL.

## SANTA TERESA, NM

DONA ANA COUNTY INTL JETPORT (DNA)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG-B 17173 (FAA)

TAKEOFF MINIMUMS: **Rwys 10, 28**, std. with a min. climb of 430' per NM to 8500, or 2800-3 for VCOA. **Rwy 28**, std. with a min. climb of 365' per NM to 8300, or 2800-3 for VCOA.

VCOA: **Rwys 10, 28**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Dona Ana County Intl Jetport at or above 6800 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 10**, bushes and light support structure beginning 6' from DER, 29' left of centerline, up to 7' AGL/4115' MSL. Light support structure 9' from DER, 30' right of centerline, 1' AGL/4111' MSL. Bush 159' from DER, 518' right of centerline, 4115' MSL. **Rwy 28**, light support structure 9' from DER, 29' right of centerline, 4112' MSL. Sign 31' from DER, 250' left of centerline, 4113' MSL. Railroad 1335' from DER, 837' left of centerline, 23' AGL/4148' MSL.

## SILVER CITY, NM

GRANT COUNTY (SVC)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2 14149 (FAA)

TAKEOFF MINIMUMS: **Rwys 3,12,17,21,30,35**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 8, 26**, use SILVER CITY DEPARTURE.



# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)



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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)



18116

## SOCORRO, NM

### SOCORRO MUNI (ONM)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 3 09239 (FAA)

TAKEOFF MINIMUMS: **Rwys 6, 15, 24**, NA-terrain.

**Rwy 33**, 200-1¼ or std. w/ min. climb of 216' per NM to 5100, or alternatively, with standard TAKEOFF minimums and a normal 200'/NM climb gradient, TAKEOFF must occur no later than 1500' prior to DER.

DEPARTURE PROCEDURE: **Rwy 33**, climbing right turn via heading 030° and ONM VORTAC R-179 to ONM VORTAC, continue climb-in-hold (hold North, right turns, 182° inbound) to cross ONM VORTAC at or above MEA/MCA for direction of flight.

TAKEOFF OBSTACLE NOTES: **Rwy 33**, trees beginning 67' from DER, 66' left of centerline, up to 15' AGL/4814' MSL. Trees beginning 436' from DER, 438' right of centerline, up to 15' AGL/4814' MSL. Tower 4996' from DER, 1161' left of centerline, 147' AGL/4947' MSL. Tower 5851' from DER, 584' right of centerline, 200' AGL/4956' MSL.

## SPRINGFIELD, CO

### SPRINGFIELD MUNI (8V7)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

ORIG 07354 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, 4900-3 or std. w/ a min. climb of 225' per NM to 5000.

TAKEOFF OBSTACLE NOTES: **Rwy 17**, tower 15212' from DER, 2936' right of centerline, 425' AGL/4817' MSL.

## STEAMBOAT SPRINGS, CO

### STEAMBOAT SPRINGS/BOB ADAMS FIELD (SBS)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

TAKEOFF MINIMUMS: **Rwy 14**, 1500-3 or std. with a min. climb of 610' per NM to 9000. **Rwy 32**, 1900-3 or std. with a min. climb of 500' per NM to 9000.

DEPARTURE PROCEDURE: **Rwy 14**, turn right heading 220°, intercept BQZ R-172. **Rwy 32**, turn left direct BQZ VOR/DME. All aircraft climb to 12100 via BQZ R-172 to SBURG Int. and hold (S, right turns, 352° inbound).

## STERLING, CO

### STERLING MUNI (STK)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 1 12264 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 22**, NA-Environmental.

TAKEOFF OBSTACLE NOTES: **Rwy 15**, pole 548' from DER, 441' right of centerline, 30' AGL/4040' MSL. **Rwy 33**, multiple buildings, signs beginning 10' from DER, left and right of centerline, up to 16' AGL/4065' MSL. Wall 192' from DER, 511' left of centerline, 6' AGL/4052' MSL. Multiple trees beginning 573' from DER, 339' left of centerline, up to 41' AGL/4090' MSL.

## TAOS, NM

### TAOS RGNL (SKX)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

AMDT 2 17341 (FAA)

TAKEOFF MINIMUMS: **Rwy 31**, std. w/ min. climb of 225' per NM to 8500 or 1100 - 3 for VCOA.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn to intercept TAS VORTAC R-100 to TAS VORTAC. Do not exceed 240 K until TAS VORTAC. thence . . . **Rwy 13**, climbing right turn to intercept TAS VORTAC R-150 to TAS VORTAC. Do not exceed 240 K until TAS VORTAC. thence . . . **Rwy 22**, climbing right turn to intercept TAS VORTAC R-100 to TAS VORTAC. Do not exceed 240 K until TAS VORTAC. thence . . . **Rwy 31**, climbing left turn to intercept TAS VORTAC R-125 to TAS VORTAC. Do not exceed 240 K until TAS VORTAC. thence . . . climb in TAS VORTAC holding pattern (hold S, right turn, 353° inbound) expect further clearance to 11700 before proceeding enroute.

VCOA: **Rwy 31**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross TAOS RGNL Airport at or above 8000, then on TAS R-117 to TAS VORTAC, thence climb in TAS VORTAC holding pattern (hold S, right turn, 353° inbound) to 11700 before proceeding enroute.

TAKEOFF OBSTACLE NOTES: **Rwy 4**, wind indicator, pole beginning 122' from DER, 139' right of centerline, up to 15' AGL/7108' MSL. Road 163' from DER, 512' left of centerline, 7107' MSL. Road 276' from DER, 512' left of centerline, 7108' MSL. Pole 387' from DER, 547' left of centerline, 38' AGL/7127' MSL. Pole, road, building, tree beginning 409' from DER, 307' left of centerline, up to 39' AGL/7131' MSL. Tree 969' from DER, 358' left of centerline, 29' AGL/7134' MSL. Pole beginning 1275' from DER, 626' right of centerline, up to 7134' MSL. Pole 1429' from DER, 486' right of centerline, 31' AGL/7138' MSL. Pole 1603' from DER, 801' left of centerline, 7141' MSL. **Rwy 22**, traverse way 36' from DER, 353' left of centerline, 7062' MSL. Traverse way 173' from DER, 354' left of centerline, 7061' MSL.

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)



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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)



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## TELLURIDE, CO

### TELLURIDE RGNL (TEX)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMDT 3 15288 (FAA)

TAKEOFF MINIMUMS: **Rwy 9**, NA-obstacles.

**Rwy 27**, std. w/min. climb of 265' per NM to 10000, or 5400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 27**, climb to 12000 on heading 276° and the ETL R-096 to ETL VOR/DME. For aircraft departing V-382 southeast bound, continue climb-in-hold to 14200.

VCOA: **Rwy 27**, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Telluride RGNL airport westbound or above 14300 then proceed on ETL R-096 to ETL VOR/DME.

TAKEOFF OBSTACLE NOTES: **Rwy 27**, terrain 174' from DER, 335' left of centerline, 9090' MSL. Terrain 286' from DER, 288' left of centerline, 9076' MSL. Fence 32' from DER, 430' left of centerline, 10' AGL/9106' MSL. Fence 154' from DER, 423' right of centerline, 15' AGL/9068' MSL. Fence 292' from DER, 422' right of centerline, 18' AGL/9065' MSL. Tree 32' from DER, 420' left of centerline, 72' AGL/9111' MSL. Tree 67' from DER, 495' left of centerline, 88' AGL/9126' MSL. Tree 70' from DER, 498' left of centerline, 86' AGL/9124' MSL. Tree 77' from DER, 415' left of centerline, 73' AGL/9111' MSL. Tree 173' from DER, 530' right of centerline, 41' AGL/9079' MSL. Tree 234' from DER, 385' left of centerline, 55' AGL/9093' MSL. Tree 385' from DER, 380' right of centerline, 56' AGL/9094' MSL. Tree 431' from DER, 266' right of centerline, 50' AGL/9088' MSL.

## TRINIDAD, CO

### PERRY STOKES (TAD)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMDT 5 16259 (FAA)

DEPARTURE PROCEDURE: Use TRINIDAD RNAV  
DEPARTURE.

## TRUTH OR CONSEQUENCES, NM

### TRUTH OR CONSEQUENCES MUNI (TCS)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMDT 1 87127 (FAA)

TAKEOFF MINIMUMS: 1500-3 or std. with a min. climb of 500' per NM to 8000.

DEPARTURE PROCEDURE: **Rwys 19,25,29,31**, turn right; **Rwys 1,7,11,13,15,33**, turn left, climb direct TCS VORTAC, continue climb in holding pattern (hold N, left turns, 180° inbound) to cross TCS VORTAC at above the MEA for direction of flight.

## TUCUMCARI, NM

### TUCUMCARI MUNI (TCC)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES

DEPARTURE PROCEDURE: All Rwys for SW-bound V-264 climb TCC R-255 within 10 NM to 5500 before departing on course. **Rwy 21**, climb heading 213° to 5500 before proceeding on course. **Rwy 26**, climb heading 258° to 5500 before proceeding on course.

## WALDEN, CO

### WALDEN-JACKSON COUNTY (33V)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG 08157 (FAA)

TAKEOFF MINIMUMS: **Rwys 17, 35**, NA-ATC.  
DEPARTURE PROCEDURE: **Rwys 4, 22**, Use WALRU RNAV DEPARTURE.

## WALSENBURG, CO

### SPANISH PEAKS AIRFIELD (4V1)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG 13066 (FAA)

DEPARTURE PROCEDURE: Use GOSIP RNAV  
DEPARTURE.

## WRAY, CO

### WRAY MUNI (2V5)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
ORIG 03079 (FAA)

TAKEOFF MINIMUMS: **Rwy 17**, 500-2 or std. with a min. climb of 280' per NM to 4400.

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn via AKO VOR/DME R-084 to 7000 before proceeding on course. **Rwy 35**, climbing left turn via AKO VOR/DME R-077 to 7000 before proceeding on course.

TAKEOFF OBSTACLE NOTES: **Rwy 35**, trees 2175' left of DER, 100' AGL/3778' MSL.

## ZUNI PUEBLO, NM

### BLACK ROCK (ZUN)

TAKEOFF MINIMUMS AND (OBSTACLE)  
DEPARTURE PROCEDURES  
AMDT 1 17061 (FAA)

TAKEOFF MINIMUMS: **Rwy 6**, std. w/min. climb of 485' per NM to 7700 or 1600-3 for VCOA.

DEPARTURE PROCEDURE: **Rwy 6**, climbing left turn direct ZUN VORTAC. Do not exceed 210 KIAS until completion of turn established westbound. **Rwy 24**, climb direct ZUN VORTAC.

VCOA: **Rwy 6**, visual climb over airport: obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Black Rock airport at or above 7900, then proceed direct ZUN VORTAC.

TAKEOFF OBSTACLE NOTES: **Rwy 6**, vehicle on road 201' from DER, crossing centerline, up to 15' AGL/6474' MSL. Trees, beginning 13' from DER, 131' right of centerline, up to 100' AGL/6559' MSL. Trees beginning 2914' from DER, 430' left of centerline, up to 100' AGL/6939' MSL. **Rwy 24**, trees beginning abeam DER, 231' left of centerline, up to 100' AGL/6534' MSL. Trees beginning abeam DER, 133' right of centerline, up to 100' AGL/6534' MSL. Trees beginning 421' from DER, 150' left of centerline, up to 100' AGL/6559' MSL.

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