

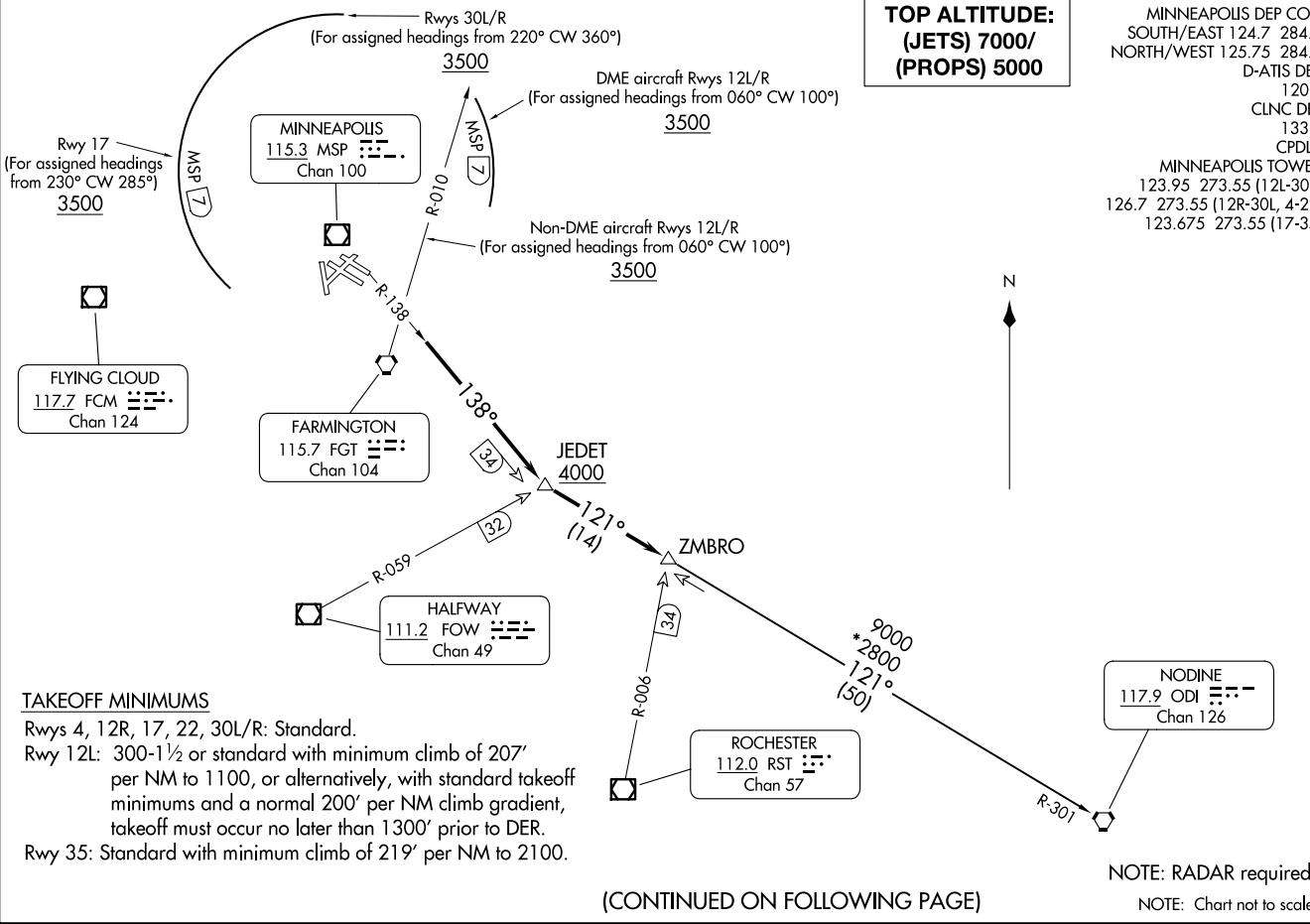
ZMBRO SEVEN DEPARTURE
(ZMBR07.ZMBRO) 17AUG17MINNEAPOLIS, MINNESOTA
MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (MSP)

TAKEOFF MINIMUMS

Rwy 4, 12R, 17, 22, 30L/R: Standard.

Rwy 12L: 300-1/2 or standard with minimum climb of 207' per NM to 1100, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1300' prior to DER.

Rwy 35: Standard with minimum climb of 219' per NM to 2100.





DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: Fly assigned heading for RADAR vectors to MSP R-138 to cross JEDET INT/MSP 34 DME, at or above 4000; then on ODI R-301 to ZMBRO INT/ODI 50 DME. Turbojet aircraft maintain 7000 or lower assigned altitude, all other aircraft maintain 5000 or lower assigned altitude, thence

DME EQUIPPED AIRCRAFT RUNWAYS 12L/R DEPARTURES: For assigned headings from 060° clockwise to 100°, cross MSP 7 DME at or above 3500, maintain assigned altitude. If unable to comply, advise ATC as soon as possible prior to departure, thence

NON-DME EQUIPPED AIRCRAFT RUNWAYS 12L/R DEPARTURES: For assigned headings from 060° clockwise to 100°, cross FGT R-010 at or above 3500, maintain assigned altitude. If unable to comply, advise ATC as soon as possible prior to departure, thence

TAKEOFF RUNWAY 17: For assigned headings from 230° clockwise to 285°, cross MSP 7 DME at or above 3500, maintain assigned altitude. If unable to comply, advise ATC as soon as possible prior to departure, thence

TAKEOFF RUNWAYS 30L/R: For assigned headings from 220° clockwise to 360°, cross MSP 7 DME at or above 3500, maintain assigned altitude. If unable to comply, advise ATC as soon as possible prior to departure, thence

TAKEOFF RUNWAYS 4, 22, 35: Initially assigned heading. Thence

. . . . on assigned transition or route. Expect clearance to filed altitude/flight level 10 (ten) minutes after departure.

NODINE TRANSITION (ZMBRO7.ODI): From over ZMBRO on ODI R-301 to ODI VORTAC.