

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated

City, State	Airport	Effective Date	Amdt. No.
MILWAUKEE, WI	LAWRENCE J. TIMMERMAN	18 NOV 2010	1

**TAKEOFF MINIMUMS:**

RWY 4L, 15L, 22R, 33R STANDARD.  
RWY 4R, 15R, 22L, 33L, NA - ENVIRONMENTAL AND OBSTACLES.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 4L - CLIMB HEADING 038.17 TO 2100 FT BEFORE TURNING EAST.  
RWY 15L - CLIMB HEADING 147.57 TO 2100 FT BEFORE TURNING EAST.  
RWY 22R - CLIMB HEADING 218.18 TO 2100 FT BEFORE TURNING EAST.  
RWY 33R - CLIMB HEADING 327.58 TO 2100 FT BEFORE TURNING EAST.

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 4L, BUILDING 75 FT FROM DEPARTURE END OF RUNWAY, 480 FT LEFT OF CENTERLINE, 33 FT AGL/771 FT MSL. FENCE 197 FT FROM DEPARTURE END OF RUNWAY, 381 FT LEFT OF CENTERLINE, 6 FT AGL/745 FT MSL. BILLBOARD 565 FT FROM DEPARTURE END OF RUNWAY, 176 FT LEFT OF CENTERLINE, 17 FT AGL/755 FT MSL. AC EQUIPMENT 926 FT FROM DEPARTURE END OF RUNWAY, 741 FT LEFT OF CENTERLINE, 70 FT AGL/808 FT MSL. TREE 1106 FT FROM DEPARTURE END OF RUNWAY, 731 FT RIGHT OF CENTERLINE, 70 FT AGL/808 FT MSL. BUILDING 887 FT FROM DEPARTURE END OF RUNWAY, 641 FT LEFT OF CENTERLINE, 67 FT AGL/805 FT MSL. NUMEROUS TREES BEGINNING 623 FT FROM DEPARTURE END OF RUNWAY, RIGHT AND LEFT OF CENTERLINE, UP TO 100 FT AGL/820 FT MSL. VEHICLE ON ROAD 517 FT FROM DEPARTURE END OF RUNWAY ON CENTERLINE, 17 FT AGL/755 FT MSL. NOTE: RWY 15L, ANTENNA ON BUILDING 437 FT FROM DEPARTURE END OF RUNWAY, 264 FT LEFT OF CENTERLINE, 12 FT AGL/756 FT MSL. NUMEROUS TREES BEGINNING 487 FT FROM DEPARTURE END OF RUNWAY, RIGHT AND LEFT OF CENTERLINE, UP TO 100 FT AGL/856 FT MSL. VEHICLE ON ROAD 627 FT FROM DEPARTURE END OF RUNWAY, 337 FT LEFT OF CENTERLINE, 24 FT AGL/186 FT MSL. BILLBOARD 816 FT FROM DEPARTURE END OF RUNWAY, 297 FT LEFT OF CENTERLINE, 31 FT AGL/775 FT MSL. NOTE: RWY 22R, TREES BEGINNING 553 FT FROM DEPARTURE END OF RUNWAY, RIGHT AND LEFT OF CENTERLINE, UP TO 100 FT AGL/820 FT MSL. NOTE: RWY 33R, TREES BEGINNING 495 FT FROM DEPARTURE END OF RUNWAY, 18 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/797 FT MSL. TREE 1257 FT FROM DEPARTURE END OF RUNWAY, 130 FT RIGHT OF CENTERLINE, 100 FT AGL/783 FT MSL.

**CONTROLLING OBSTACLES:**

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 4L, 15L, 22R, 33R - 1849 FT MSL TOWER, 430642.00N-0875550.00W.

