

**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.
TROY, MI	OAKLAND/TROY	6 FEBRUARY 2014	4A

**TAKEOFF MINIMUMS:**

RWY 9 STANDARD

RWY 27 STANDARD WITH MINIMUM CLIMB OF 476 FT PER NM TO 1500.

**TEXTUAL DEPARTURE PROCEDURES:**

NOTE: RWY 9, CLIMB HEADING 095.72 TO 1400 BEFORE TURNING RIGHT.

NOTE: RWY 27, CLIMB HEADING 275.73 TO 1500 BEFORE TURNING LEFT.

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 9, BUILDING 78-FT FROM DER, 370 FT LEFT OF CENTERLINE, 30 FT AGL/729 FT MSL. BUILDINGS AND AIR CON ON BUILDING BEGINNING 314 FT FROM DER, 64 FT RIGHT OF CENTERLINE, UP TO 47 FT AGL/745 FT MSL. TREES BEGINNING 1495 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/799 FT MSL.

NOTE: RWY 27, TREES BEGINNING 21 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 103 FT AGL/843 FT MSL. BUILDINGS BEGINNING 1422 FT FROM DER, 19 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/799 FT MSL. VEHICLES ON ROAD BEGINNING 3 FT FROM DER, 41 FT LEFT OF CENTERLINE, UP TO 17 FT AGL/746 FT MSL. TREES BEGINNING 176 FT FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 105 FT AGL/845 FT MSL. BUILDINGS BEGINNING 72 FT FROM DER, 468 FT LEFT OF CENTERLINE, UP TO 158 FT AGL/784 FT MSL. POLES BEGINNING 426 FT FROM DER, 11 FT RIGHT OF CENTERLINE, UP TO 111 FT AGL/851 FT MSL. POLES BEGINNING 146 FT FROM DER, 19 FT LEFT OF CENTERLINE, UP TO 91 FT AGL/831 FT MSL. RAILROAD 1682 FT FROM DER, 428 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/770 FT MSL. POWERLINE WITH CATERNARY BALLS, 1888 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 80 FT AGL/820 FT MSL. TOWER 2456 FT FROM DER, 867 FT RIGHT OF CENTERLINE, UP TO 132 FT AGL/872 FT MSL. BUILDINGS BEGINNING 1.08 NM FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 178 FT AGL/940 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 9: 1749 MSL TOWER 422858.00N-0831219.00W

RWY 27: 940 MSL BLDG 423234.20N-0831235.50W, 1749 MSL TOWER 422858.00N-0831219.00W

QUALITY  
1  
CHECKED

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**REMARKS:**

**FLIGHT INSPECTED BY:**

**REQUIRED EFFECTIVE DATE:**

JEFFREY W. RANDALL *[Signature]* BTL

09/25/2013

ROUTINE

**DEVELOPED BY:**

JILL OLSON (JAMES ROGERS) *[Signature]* AJV-353

07/10/2013

**APPROVED BY:**

DEBORAH COPELAND *[Signature]* AJV-353

12-31-13

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZOB, AMGR

**CHANGES:**

1. REMOVED CEILING AND VISIBILITY FROM RWY 27 TAKEOFF MINIMUMS, CHANGED CLIMB GRADIENT FROM 226 FT PER NM TO 1500 TO 476 FT PER NM TO 1500.
2. CHANGED CONTROLLING OBSTACLE LAT/LON FOR RWY 27 ICA FROM 423233.48N-0831235.50W TO 423234.20N-0831235.50W AND REMOVED 1737 FT TOWER.
3. REGROUPED RWY 27 TAKEOFF OBSTACLE NOTES.

**REASONS:**

1. FLIGHT CHECK REQUEST TO ACCOUNT FOR THE CONNECTING CABLES BETWEEN THE POWERLINE POLES. SEE AND AVOID METHOD NOT SUFFICIENT AS THE CABLES EXTEND ACROSS THE ENTIRE ICA.
2. UPDATED OBSTACLE EVALUATION FOR RWY 27.
3. TO PROVIDE A MORE REALISTIC VISUAL REFERENCE FOR OBSTACLE LOCATIONS.

12/30/13: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/23/13.

1. CHANGED RWY 27 TAKEOFF OBSTACLE FROM 158 FEET AGL/920 FEET MSL TO 178 FEET AGL/940 FEET MSL, PER FLIGHT CHECK.
2. DELETED CHANGE/REASON REFERENCE ADDING 872 MSL TOWER TO CONTROLLING OBSTACLE SECTION.
3. CHANGED AIRPORT FROM KVLL TO OAKLAND/TROY.

