

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

| DP NAME | NUMBER | DP COMPUTER CODE | SUPERSEDED NUMBER | DATED | EFFECTIVE DATE |
|------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| FORT WAYNE | SEVEN | FWA7.FWA | SIX | 04/30/2015 | 27 APR 2017 |
| TYPE: | OBSTACLE | COPTER | SID | SPECIAL | RNAV |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

DP ROUTE DESCRIPTION:
DETROIT METROPOLITAN WAYNE COUNTY:
TAKEOFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO INTERCEPT DXO VOR/DME R-217 TO ILLIE, THEN ON FWA R-077 TO FWA VORTAC. WHEN THE ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL TEN (10) MINUTES AFTER DEPARTURE.

ANN ARBOR MUNI:
TAKEOFF RWY 6, 24: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS, THENCE...

OAKLAND COUNTY INTL:
TAKEOFF RWY 9L, 9R, 27L, 27R: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS, THENCE...

COLEMAN A. YOUNG MUNI:
TAKEOFF RWY 33: CLIMB HEADING 328.33 TO 1800 BEFORE TURNING. EXPECT RADAR VECTORS, THENCE...
TAKEOFF ALL OTHER RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS, THENCE...

WILLOW RUN:
TAKEOFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS, THENCE...

...TO INTERCEPT DXO VOR/DME R-217 TO ILLIE, THEN ON FWA R-077 TO FWA VORTAC. MAINTAIN 3000, EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL TEN (10) MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

| TRANSITION NAME | TRANSITION COMPUTER CODE | FROM FIX/NAVAID | TO FIX/NAVAID | COURSE | DISTANCE | MEA | MOCA | CROSSING ALTITUDE/FIXES |
|-----------------|-----------------------------|--------------------|------------------|--------|----------|-----|------|----------------------------|
|-----------------|-----------------------------|--------------------|------------------|--------|----------|-----|------|----------------------------|

PROCEDURAL DATA NOTES:
NOTE: RADAR REQUIRED.

SPECIAL INSTRUCTIONS:
ALL AIRPORTS: JETS ONLY. WHEN USING THIS DEPARTURE, FILE THE APPROPRIATE DEPICTED FIX AND ROUTE. DEPARTURES AT/ABOVE 10000, MAINTAIN 280K UNTIL ADVISED BY ATC.

TAKEOFF MINIMUMS:
DETROIT METROPOLITAN WAYNE COUNTY:
RWY 3L, 3R, 4L, 4R, 9L, 9R, 21L, 21R, 22L, 22R, 27L, 27R: STANDARD.

ANN ARBOR MUNI:
RWY 12, 30: NA - ENVIRONMENTAL.
RWY 6, 24: STANDARD.

OAKLAND COUNTY MUNI:
RWY 18, 36: NA - ENVIRONMENTAL.



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RWY 9L, 9R, 27L, 27R: STANDARD.

COLEMAN A. YOUNG MUNI:

RWY 7, 15, 33: STANDARD.

RWY 25: STANDARD WITH MINIMUM CLIMB OF 215 FT PER NM TO 1400, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 FEET PRIOR TO DER.

WILLOW RUN:

RWY 5L, 5R, 9, 23L, 23R: STANDARD.

RWY 27: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 206 FT PER NM TO 1000, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 FEET PRIOR TO DER.

TAKEOFF OBSTACLES NOTES:

DETROIT METROPOLITAN WAYNE COUNTY:

NOTE: RWY 3L, TREE 3794 FT FROM DER, 1441 FT LEFT OF CENTERLINE, 100 FT AGL/734 FT MSL.

NOTE: RWY 3R, HEADWALL 399 FT FROM DER, 566 FT RIGHT OF CENTERLINE, 17 FT AGL/647 FT MSL.

NOTE: RWY 4L, TRANSMISSION TOWERS BEGINNING 1516 FT FROM DER, 827 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/690 FT MSL. RODS ON TOWERS BEGINNING 2751 FT FROM DER, 762 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/714 FT MSL.

NOTE: RWY 4R, TREES BEGINNING 2850 FT FROM DER, 1058 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/744 FT MSL. ANTENNA ON BUILDING 3348 FT FROM DER, 1301 FT LEFT OF CENTERLINE, 100 FT AGL/736 FT MSL.

NOTE: RWY 9L, TREES BEGINNING 968 FT FROM DER, 461 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/682 FT MSL. TREES BEGINNING 987 FT FROM DER, 607 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/715 FT MSL.

NOTE: RWY 9R, TREES BEGINNING 1172 FT FROM DER, 686 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/729 FT MSL.

NOTE: RWY 21L, TREES BEGINNING 1079 FT FROM DER, 586 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/ 739 FT MSL. TREE 3910 FT FROM DER, 1188 FT RIGHT OF CENTERLINE, 101 FT AGL/733 FT MSL.

NOTE: RWY 21R, TREE 1963 FT FROM DER, 554 FT LEFT OF CENTERLINE, 100 FT AGL/739 FT MSL. TREES BEGINNING 2468 FT FROM DER, 721 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/739 FT MSL.

NOTE: RWY 22L, BUSH 514 FT FROM DER, 619 FT RIGHT OF CENTERLINE, 17 FT AGL/652 FT MSL. TREES BEGINNING 794 FT FROM DER, 611 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/739 FT MSL. TREES BEGINNING 1726 FT FROM DER, 921 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/744 FT MSL.

NOTE: RWY 22R, TREES BEGINNING 1014 FT FROM DER, 729 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/749 FT MSL. TREES BEGINNING 1039 FT FROM DER, 680 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/749 FT MSL.

NOTE: RWY 27L, TREES BEGINNING 2623 FT FROM DER, 693 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/744 FT MSL. TREE 3589 FT FROM DER, 777 FT RIGHT OF CENTERLINE, 100 FT AGL/739 FT MSL.

NOTE: RWY 27R, TREES BEGINNING 2998 FT FROM DER, 949 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/754 FT MSL. ROD ON OL ASR 4461 FT FROM DER, 464 FT LEFT OF CENTERLINE, 106 FT AGL/756 FT MSL. TREES BEGINNING 3289 FT FROM DER, 1239 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/744 FT MSL.



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ANN ARBOR MUNI:

NOTE: RWY 6, BUILDING AND MULTIPLE POLES BEGINNING 312 FT FROM DER, 385 FT RIGHT OF CENTERLINE, UP TO 24 FT AGL/853 FT MSL. MULTIPLE TREES BEGINNING 538 FT FROM DER, 47 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/929 FT MSL. BUILDING 99 FT FROM DER, 351 FT LEFT OF CENTERLINE, 22 FT AGL/849 FT MSL. MULTIPLE TREES BEGINNING 634 FT FROM DER, 182 FT LEFT OF CENTERLINE, UP TO 58 FT AGL/887 FT MSL.

NOTE: RWY 24, TERRAIN 138 FT FROM DER, 475 FT RIGHT OF CENTERLINE, 837 FT MSL. MULTIPLE TREES BEGINNING 462 FT FROM DER, 486 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/885 FT MSL. MULTIPLE TREES BEGINNING 479 FT FROM DER, 473 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/926 FT MSL.

OAKLAND COUNTY INTL:

NOTE: RWY 9L, HANGARS BEGINNING 203 FT FROM DER, 510 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/1000 FT MSL. TREES BEGINNING 3347 FT FROM DER, 1252 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1089 FT MSL.

NOTE: RWY 9R, ANTENNA ON HANGER 870 FT FROM DER, 732 FT RIGHT OF CENTERLINE, 36 FT AGL/1006 FT MSL. TREES BEGINNING 1136 FT FROM DER, 480 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1079 FT MSL. TREES BEGINNING 1383 FT FROM DER, 646 FT LEFT OF CENTERLINE, UP TO 41 FT AGL/1011 FT MSL.

NOTE: RWY 27L, VEHICLE ON ROAD 401 FT FROM DER, 539 FT LEFT OF CENTERLINE, 15 FT AGL/991 FT MSL. VEHICLE ON ROAD 417 FT FROM DER, 574 FT RIGHT OF CENTERLINE, 15 FT AGL/992 FT MSL. TREES BEGINNING 452 FT FROM DER, 552 FT RIGHT OF CENTERLINE, UP TO 23 FT AGL/1002 FT MSL. TREES BEGINNING 565 FT FROM DER, 521 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/1046 FT MSL.

NOTE: RWY 27R, VEHICLE ON ROAD 416 FT FROM DER, 24 FT RIGHT OF CENTERLINE, 15 FT AGL/992 FT MSL. TREES BEGINNING 451 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 62 FT AGL/1041 FT MSL. TREES BEGINNING 1234 FT FROM DER, 19 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/1015 FT MSL.

COLEMAN A. YOUNG MUNI:

NOTE: RWY 7, MULTIPLE POLES, LIGHTS AND TREES, STACK AND ANTENNA BEGINNING 132 FT FROM DER, FROM 405 FT LEFT TO 314 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/687 FT MSL.

NOTE: RWY 15, TREES, ANTENNA ON BLDG, AND OB LIGHT ON BLDG BEGINNING 299 FT FROM DER, 289 FT RIGHT OF CENTERLINE, UP TO 68 FT AGL/692 FT MSL. TREES AND ROD, ANTENNA, PIPE AND FLOODLIGHT ON BUILDINGS, BEGINNING 450 FT FROM DER, 221 FT LEFT OF CENTERLINE, UP TO 78 FT AGL/692 FT MSL. TOWER 3375 FT FROM DER, 1117 FT RIGHT OF CENTERLINE, 103 FT AGL/723 FT MSL. BUILDING 3748 FT FROM DER, 569 FT LEFT OF CENTERLINE, 114 FT AGL/723 FT MSL.

NOTE: RWY 25, RAILROAD, OBSTRUCTION LIGHTS ON BUILDINGS, TREES AND STACK BEGINNING 1 FT FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/703 FT MSL. TREES AND LIGHT BEGINNING 334 FT FROM DER, 132 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/685 FT MSL. TOWER 2827 FT FROM DER, 1225 FT LEFT OF CENTERLINE, 141 FT AGL/770 FT MSL. STACK 1.5 NM FROM DER, 2,414 FT LEFT OF CENTERLINE, 241 FT AGL/872 FT MSL.

NOTE: RWY 33, TREES BEGINNING 113 FT FROM DER, 118 FT LEFT OF CENTERLINE, UP TO 73 FT AGL/694 FT MSL. TREES BEGINNING 572 FT FROM DER, 84 FT RIGHT OF CENTERLINE, UP TO 92 FT AGL/709 FT MSL. FLAG POLE 963 FT FROM DER, 379 FT LEFT OF CENTERLINE, 28 FT AGL/658 FT MSL.

WILLOW RUN:

NOTE: RWY 5L, TREES BEGINNING 2091 FT FROM DER, 224 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/809 FT MSL.

NOTE: RWY 5R, TREES BEGINNING 1877 FT FROM DER, 803 FT RIGHT OF CENTERLINE, UP TO 78 FT AGL/763 FT MSL. TREES BEGINNING 2028 FT FROM DER, 134 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/777 FT MSL.

NOTE: RWY 23L, SIGN 44 FT FROM DER, 499 FT RIGHT OF CENTERLINE, 8 FT AGL/718 FT MSL. TREE 1304 FT FROM DER, 438 FT RIGHT OF CENTERLINE, 42 FT AGL/757 FT MSL. TREE 2457 FT FROM DER, 720 FT LEFT OF CENTERLINE, 66 FT AGL/781 FT MSL.

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NOTE: RWY 23R, SIGN 73 FT FROM DER, 255 FT LEFT OF CENTERLINE, 10 FT AGL/718 FT MSL. VEHICLE ON ROAD, 587 FT FROM DER, 294 FT RIGHT OF CENTERLINE, 15 FT AGL/732 FT MSL. TREES BEGINNING 1020 FT FROM DER, 281 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/793 FT MSL. TREE 1333 FT FROM DER, 316 FT LEFT OF CENTERLINE, 55 FT AGL/757 FT MSL.

NOTE: RWY 27, TREE AND POLES BEGINNING 102 FT FROM DER, 353 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/771 FT MSL. RAILROAD AND LIGHTS BEGINNING 564 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/770 FT MSL. LIGHT ON BUILDING 724 FT FROM DER, 333 FT LEFT OF CENTERLINE, 35 FT AGL 746 FT MSL. TOWER 7161 FT FROM DER, 502 FT LEFT OF CENTERLINE, 162 FT AGL/900 FT MSL.

CONTROLLING OBSTACLES:

COLEMAN A. YOUNG MUNI: RWY 25: 1143 MSL BUILDING 422209.00N/0830437.00W. RWY 33: 1749 MSL TOWER 422653.00N/0831023.00W.

WILLOW RUN: RWY 27: 900 FT MSL TOWER 421431.51N/0833410.97W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

DETROIT METROPOLITAN WAYNE COUNTY: CHART: DXO 10 DME ARC AROUND DXO VOR/DME.

DETROIT METROPOLITAN WAYNE COUNTY - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

COLEMAN A. YOUNG MUNI - CHART: TOP ALTITUDE: 3000.

WILLOW RUN - CHART: TOP ALTITUDE: 3000.

ANN ARBOR MUNI - CHART: TOP ALTITUDE: 3000.

OAKLAND COUNTY INTL - CHART: TOP ALTITUDE: 3000.

AIRPORTS SERVED:

| <u>AIRPORT NAME</u> | <u>CITY</u> | <u>STATE</u> |
|--|-------------|--------------|
| DETROIT METROPOLITAN WAYNE COUNTY (KDTW) | DETROIT | MI |
| COLEMAN A. YOUNG MUNI (KDET) | DETROIT | MI |
| WILLOW RUN (KYIP) | DETROIT | MI |
| ANN ARBOR MUNI (KARB) | ANN ARBOR | MI |
| OAKLAND COUNTY INTL (KPTK) | PONTIAC | MI |

COMMUNICATIONS:

ATIS: DTW, ARB, PTK, DET, YIP. **CLNC DEL:** DTW, ARB, PTK. **GND CON:** DTW (EAST, WEST), ARB, PTK, DET, YIP. **TOWER:** DTW (EAST, WEST), ARB, PTK, DET, YIP. **DETROIT DEP CON:** ARB 118.95, 239.275, PTK 127.5, 239.275, DET 126.85, 239.275, YIP 118.95, 239.275, **CTAF:** ARB, PTK.

FIXES AND/OR NAVAIDS:

VVV VOR/DME, FBC VORTAC, ANNTS.



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REMARKS:
ABBREVIATED AMENDMENT.
FORT WAYNE (FWA) VORTAC MAG VAR CHANGE FROM 0E TO 6W.

FLIGHT INSPECTED BY:

PENDING

OFFICE SYMBOL:**DATE:****DEVELOPED BY:**

JOHN THORNTON

*Digitally signed by***JOHN R THORNTON**

Dec 13, 2016

OFFICE SYMBOL:

AJV-5422

DATE:

09/27/2016

APPROVED BY:

JULIE MORGAN

*Digitally signed by***JULIE A MORGAN**

Jan 09, 2017

OFFICE SYMBOL:

AJV-5422

DATE:**REQUIRED EFFECTIVE DATE:**

04/27/2017

COORDINATED WITH:

| | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| <u>A4A</u> | <u>ALPA</u> | <u>AOPA</u> | <u>APA</u> | <u>HAI</u> | <u>NBAA</u> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

OTHER:

DTW APP CON, ZOB, AMGR

CHANGES - REASONS:

1. AIRPORTS SERVED: ADDED FOUR LETTER IDENTIFIERS TO AIRPORT NAMES TO AID RECOGNITION: DETROIT METROPOLITAN WAYNE COUNTY - ADDED "(KDTW)"; COLEMAN A. YOUNG MUNI - ADDED "(KDET)"; WILLOW RUN - ADDED "(KYIP)"; ANN ARBOR MUNI - ADDED "(KARB)"; OAKLAND COUNTY INTL - ADDED "(KPTK)".
2. REMOVED ALL INSTANCES OF "INT" FROM THE FORM; "INT" IS NO LONGER USED IN DOCUMENTATION.
3. FIXES AND/OR NAVAIDS: DELETED DXO VOR/DME - FACILITY IS NOT REQUIRED TO BE LISTED IN FIXES AND/OR NAVAIDS BECAUSE IT IS PART OF THE DP ROUTE DESCRIPTION - FAAO 8260.46F 2-1-6. B. (4) (H).
4. REMARKS: ADDED "ABBREVIATED AMENDMENT" AND "FORT WAYNE (FWA) VORTAC MAG VAR CHANGE FROM 0E TO 6W"; PROCEDURE AMENDED DUE TO FORT WAYNE (FWA) VORTAC MAGVAR CHANGE FROM 0E TO 6W - NO CHANGE TO GROUND TRACK.
5. COORDINATED WITH: ADDED "APA"; KDTW AIRPORT IS USED BY AMERICAN AIRLINES.

QUALITY
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CHECKED