

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)  
TITLE 14 CFR PART 97.37**

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.

AIRPORT	AIRPORT ID	CITY	STATE	AMDT NO	ACTUAL EFFECTIVE DATE
WARSAW MUNI	KASW	WARSAW	IN	3	30 JANUARY 2020

**TAKEOFF MINIMUMS:**

**RWY 18, 27, 36:** STANDARD.

**RWY 9:** 300-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 266 FT PER NM TO 1100, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2000 FT PRIOR TO DER.

**TEXTUAL DEPARTURE PROCEDURES:**

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 9:** FENCE BEGINNING 148 FT FROM DER, 476 FT LEFT OF CENTERLINE, UP TO 5 FT AGL/856 FT MSL.  
VEHICLE ON ROAD BEGINNING 181 FT FROM DER, 22 FT RIGHT OF CENTERLINE, UP TO 865 FT MSL.  
VEHICLE ON ROAD 183 FT FROM DER, 264 FT LEFT OF CENTERLINE, 865 FT MSL.  
VEHICLE ON ROAD BEGINNING 184 FT FROM DER, 404 FT LEFT OF CENTERLINE, UP TO 866 FT MSL.  
TREES BEGINNING 835 FT FROM DER, 447 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/914 FT MSL.  
TREES BEGINNING 1258 FT FROM DER, 755 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/888 FT MSL.  
TREE 1283 FT FROM DER, 763 FT LEFT OF CENTERLINE, 52 FT AGL/890 FT MSL.  
TREES BEGINNING 1287 FT FROM DER, 524 FT LEFT OF CENTERLINE, UP TO 58 FT AGL/897 FT MSL.  
TREES BEGINNING 1367 FT FROM DER, 476 FT LEFT OF CENTERLINE, UP TO 61 FT AGL/898 FT MSL.  
TREES BEGINNING 1472 FT FROM DER, 72 FT RIGHT OF CENTERLINE, UP TO 77 FT AGL/928 FT MSL.  
TREES BEGINNING 1529 FT FROM DER, 176 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/908 FT MSL.  
TREES BEGINNING 1701 FT FROM DER, 824 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/944 FT MSL.  
TREES BEGINNING 2231 FT FROM DER, 841 FT RIGHT OF CENTERLINE, UP TO 99 FT AGL/949 FT MSL.  
TREE 2497 FT FROM DER, 969 FT LEFT OF CENTERLINE, 69 FT AGL/913 FT MSL.  
TRANSMISSION LINE 4888 FT FROM DER, 1104 FT LEFT OF CENTERLINE, 167 FT AGL/1012 FT MSL.  
TRANSMISSION LINE 5638 FT FROM DER, 106 FT LEFT OF CENTERLINE, 173 FT AGL/1018 FT MSL.  
TOWER 5639 FT FROM DER, 106 FT LEFT OF CENTERLINE, 172 FT AGL/1020 FT MSL.  
CATENARY 5730 FT FROM DER, 3 FT RIGHT OF CENTERLINE, 169 FT AGL/1014 FT MSL.

**NOTE: RWY 18:** TERRAIN 6 FT FROM DER, 193 FT LEFT OF CENTERLINE, 837 FT MSL.  
POLES BEGINNING 712 FT FROM DER, 360 FT LEFT OF CENTERLINE, UP TO 47 FT AGL/880 FT MSL.  
POLES, TREE BEGINNING 744 FT FROM DER, 150 FT RIGHT OF CENTERLINE, UP TO 33 FT AGL/866 FT MSL.  
TREES BEGINNING 832 FT FROM DER, 572 FT LEFT OF CENTERLINE, UP TO 63 FT AGL/896 FT MSL.  
TREES BEGINNING 932 FT FROM DER, 17 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/905 FT MSL.  
TREES BEGINNING 1041 FT FROM DER, 172 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/870 FT MSL.  
TREES BEGINNING 1267 FT FROM DER, 115 FT RIGHT OF CENTERLINE, UP TO 86 FT AGL/905 FT MSL.  
TREES BEGINNING 1846 FT FROM DER, 305 FT RIGHT OF CENTERLINE, UP TO 103 FT AGL/917 FT MSL.

**NOTE: RWY 27:** TREE 1341 FT FROM DER, 650 FT RIGHT OF CENTERLINE, 41 FT AGL/872 FT MSL.  
POLE 1715 FT FROM DER, 387 FT LEFT OF CENTERLINE, 60 FT AGL/883 FT MSL.  
POLE 1717 FT FROM DER, 462 FT RIGHT OF CENTERLINE, 57 FT AGL/884 FT MSL.

**NOTE: RWY 36:** BUILDING 199 FT FROM DER, 528 FT LEFT OF CENTERLINE, 15 FT AGL/849 FT MSL.  
POLE 313 FT FROM DER, 537 FT LEFT OF CENTERLINE, 43 FT AGL/877 FT MSL.  
TREE 366 FT FROM DER, 520 FT LEFT OF CENTERLINE, 59 FT AGL/893 FT MSL.  
TREES, POLES, VEHICLE ON ROAD BEGINNING 448 FT FROM DER, 237 FT LEFT OF CENTERLINE, UP TO 77 FT AGL/910 FT MSL.  
POLE, VEHICLE ON ROAD BEGINNING 483 FT FROM DER, 5 FT RIGHT OF CENTERLINE, UP TO 27 FT AGL/864 FT MSL.  
POLE 524 FT FROM DER, 544 FT RIGHT OF CENTERLINE, 29 FT AGL/866 FT MSL.  
TREE 560 FT FROM DER, 507 FT RIGHT OF CENTERLINE, 51 FT AGL/887 FT MSL.  
TREES, BUILDINGS, POLE BEGINNING 568 FT FROM DER, 404 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/891 FT MSL.  
TREES BEGINNING 1666 FT FROM DER, 643 FT RIGHT OF CENTERLINE, UP TO 87 FT AGL/916 FT MSL.  
TREES BEGINNING 1766 FT FROM DER, 519 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/919 FT MSL.  
TREES BEGINNING 1783 FT FROM DER, 357 FT LEFT OF CENTERLINE, UP TO 105 FT AGL/928 FT MSL.  
TREES BEGINNING 1952 FT FROM DER, 380 FT LEFT OF CENTERLINE, UP TO 108 FT AGL/929 FT MSL.  
TREES BEGINNING 2148 FT FROM DER, ON CENTERLINE, UP TO 109 FT AGL/932 FT MSL.  
TREES BEGINNING 2740 FT FROM DER, 183 FT RIGHT OF CENTERLINE, UP TO 103 FT AGL/925 FT MSL.  
TREES BEGINNING 2857 FT FROM DER, 165 FT RIGHT OF CENTERLINE, UP TO 125 FT AGL/945 FT MSL.  
TREES BEGINNING 3244 FT FROM DER, 148 FT LEFT OF CENTERLINE, UP TO 106 FT AGL/934 FT MSL.  
TREES BEGINNING 3309 FT FROM DER, 11 FT LEFT OF CENTERLINE, UP TO 107 FT AGL/936 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 9:** 1020 FT MSL TOWER 411624.08N/0854814.05W (CEILING), 1014 FT MSL CATENARY 411623.01N/0854812.84W (VISIBILITY).  
1012 FT MSL TRANSMISSION LINE 411633.79N/0854824.16W (CLIMB GRADIENT/CLIMB-TO ALTITUDE).



<b>AIRPORT</b>	<b>AIRPORT ID</b>	<b>CITY</b>	<b>STATE</b>	<b>AMDT NO</b>	<b>EFFECTIVE DATE</b>
WARSAW MUNI	KASW	WARSAW	IN	3	30 JANUARY 2020

**REMARKS:**

<b>FLIGHT INSPECTED BY</b>	<i>Digitally signed by</i>	<b>OFFICE</b>	<b>DATE</b>
JEFFREY W HARING	<b>DAVID DANNER</b>	FICO	11/6/19
	Nov 26, 2019		

<b>DEVELOPED BY</b>	<i>Digitally signed by</i>	<b>OFFICE</b>	<b>DATE</b>
CASIMIR TABAKA (M.C. OLVERA)	<b>DAVID DANNER</b>	AJV-A422	08/13/2019
	Nov 26, 2019		

<b>APPROVED BY</b>	<i>Digitally signed by</i>	<b>OFFICE</b>	<b>DATE</b>	<b>TITLE</b>
MARLON ROBINSON	<b>DAVID DANNER</b>	AJV-A420		
	Nov 26, 2019			

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ARPT MGR

**CHANGES - REASONS:**

1. UPDATED TAKEOFF OBSTACLE NOTES - NEW EVALUATION IN TARGETS 6.0.0/DEPARTURE OBSTACLE GROUPE.
2. CHANGED RWY 9 TAKEOFF MINIMUMS FROM "300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 242 FT PER NM" TO "300-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 266 FT PER NM" - 8260.3D, CHAPTER 14, AND NEW EVALUATION IN TARGETS 6.0.0.
3. UPDATED CONTROLLING OBSTACLES - 8260.3D, CHAPTER 14 AND NEW EVALUATION IN TARGETS 6.0.0.

11/18/19: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 11/07/19.

1. CHANGED CITY FROM "WARSAW, IN" TO "WARSAW" - IAW 8260.46G, APPENDIX B.

