# 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.

TAKEOFF MINIMUMS:         RWY 15, 33: NA - ENVIRONMENTAL.         RWY 9: 300-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 355 FT/NM TO 1200.         RWY 27: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 450 FT/NM TO 1200.         TEXTUAL DEPARTURE PROCEDURES:         RWY 27: CLIMB HEADING 267.64 TO 1500 BEFORE TURNING RIGHT.         VISUAL CLIMB OVER AIRPORT:			
RWY 9: 300-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 355 FT/NM TO 1200. RWY 27: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 450 FT/NM TO 1200. TEXTUAL DEPARTURE PROCEDURES: RWY 27: CLIMB HEADING 267.64 TO 1500 BEFORE TURNING RIGHT. VISUAL CLIMB OVER AIRPORT:			
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TAKEOFF OBSTACLE NOTES:			
NOTE: RWY 9: SIGN 13 FT FROM DER, 125 FT LEFT OF CENTERLINE, 2 FT AGL/903 FT TERRAIN BEGINNING 54 FT FROM DER, 314 FT LEFT OF CENTERLINE, UP TO 904 FT M TERRAIN 73 FT FROM DER, 195 FT RIGHT OF CENTERLINE, 904 FT MSL. TERRAIN 125 FT FROM DER, 371 FT RIGHT OF CENTERLINE, 908 FT MSL. TREES BEGINNING 257 FT FROM DER, 269 FT RIGHT OF CENTERLINE, UP TO 922 FT A TREES BEGINNING 759 FT FROM DER, 82 FT RIGHT OF CENTERLINE, UP TO 65 FT AG VEHICLES ON ROAD 786 FT FROM DER, 654 FT LEFT OF CENTERLINE, 926 FT MSL. TREE 894 FT FROM DER, 434 FT LEFT OF CENTERLINE, 929 FT MSL. TREE 927 FT FROM DER, 611 FT LEFT OF CENTERLINE, 951 FT MSL. TREES, TRANSMISSION LINE, POLE BEGINNING 1026 FT FROM DER, 17 FT LEFT OF C TREES BEGINNING 1206 FT FROM DER, 365 FT RIGHT OF CENTERLINE, UP TO 71 FT TREES BEGINNING 1855 FT FROM DER, 451 FT RIGHT OF CENTERLINE, UP TO 1004 FT TREES BEGINNING 1959 FT FROM DER, 525 FT RIGHT OF CENTERLINE, UP TO 90 FT TREES BEGINNING 201 FT FROM DER, 201 FT LEFT OF CENTERLINE, UP TO 70 FT AG TREES BEGINNING 2201 FT FROM DER, 152 FT LEFT OF CENTERLINE, UP TO 70 FT AG TREES BEGINNING 2201 FT FROM DER, 763 FT RIGHT OF CENTERLINE, UP TO 1022 FT TREES BEGINNING 2804 FT FROM DER, 763 FT RIGHT OF CENTERLINE, UP TO 1022 FT TREES BEGINNING 2804 FT FROM DER, 230 FT RIGHT OF CENTERLINE, UP TO 1022 FT TREES BEGINNING 3700 FT FROM DER, 230 FT RIGHT OF CENTERLINE, UP TO 1027 FT TREES BEGINNING 3700 FT FROM DER, 210 FT RIGHT OF CENTERLINE, UP TO 1027 FT TREES BEGINNING 3700 FT FROM DER, 210 FT RIGHT OF CENTERLINE, UP TO 1027 FT TREES BEGINNING 3701 FT FROM DER, 250 FT RIGHT OF CENTERLINE, UP TO 1027 FT TREES BEGINNING 3701 FT FROM DER, 250 FT RIGHT OF CENTERLINE, UP TO 1027 FT TREES BEGINNING 3701 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 102 FT A TREES BEGINNING 3791 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 102 FT A TREES BEGINNING 4539 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 101 FT TREES BEGINNING 4539 FT FROM DER, 1206 FT RIGHT OF CENTERLINE, UP TO 101 FT TREES SEGINNING 4539 FT FROM DER, 1206 FT RIGHT OF CENTERLINE	MSL. MSL. GL/970 FT MS CENTERLINE AGL/976 FT I SGL/1013 FT GL/1004 FT I GL/1011 FT I SGL/1027 FT GL/1066 FT M GL/1037 FT I	, UP TO 981 FT MSL. MSL. MSL. MSL. MSL. SL. MSL.	MSL.
NOTE: RWY 27: TERRAIN 11 FT FROM DER, 449 FT RIGHT OF CENTERLINE, 920 FT MS TERRAIN BEGINNING 14 FT FROM DER, 192 FT RIGHT OF CENTERLINE, UP TO 922 FT TREE 76 FT FROM DER, 453 FT LEFT OF CENTERLINE, 925 FT MSL. TERRAIN 115 FT FROM DER, 259 FT RIGHT OF CENTERLINE, 923 FT MSL. TREE 188 FT FROM DER, 476 FT LEFT OF CENTERLINE, 20 FT AGL/935 FT MSL. TREES BEGINNING 188 FT FROM DER, 383 FT LEFT OF CENTERLINE, UP TO 20 FT AG TERRAIN BEGINNING 192 FT FROM DER, 193 FT RIGHT OF CENTERLINE, UP TO 924 F TERRAIN BEGINNING 243 FT FROM DER, 304 FT RIGHT OF CENTERLINE, UP TO 925 F TERRAIN 364 FT FROM DER, 294 FT RIGHT OF CENTERLINE, 926 FT MSL. VEHICLES ON ROAD BEGINNING 446 FT FROM DER, 196 FT RIGHT OF CENTERLINE, U TREES, VEHICLES ON ROAD, AGRICULTURAL EQUIPMENT, TERRAIN BEGINNING 469	T MSL. GL/937 FT MS FT MSL. FT MSL. UP TO 939 F <sup>-</sup> NE, UP TO 1 <sup>-1</sup>	T MSL. 7 FT AGL/938 F	
MSL. TREES, BUILDING, TERRAIN BEGINNING 566 FT FROM DER, 455 FT LEFT OF CENTERI TREES, TERRAIN BEGINNING 1982 FT FROM DER, 130 FT LEFT OF CENTERLINE, UP T TREES, POLE, TRANSMISSION LINES BEGINNING 2029 FT FROM DER, 13 FT RIGHT OF TREES BEGINNING 2544 FT FROM DER, 176 FT LEFT OF CENTERLINE, UP TO 79 FT AV TREES BEGINNING 2581 FT FROM DER, 121 FT LEFT OF CENTERLINE, UP TO 77 FT AV TREES BEGINNING 2663 FT FROM DER, 106 FT LEFT OF CENTERLINE, UP TO 77 FT AV TREES BEGINNING 2694 FT FROM DER, 135 FT LEFT OF CENTERLINE, UP TO 1062 FT TREES BEGINNING 2721 FT FROM DER, 111 FT LEFT OF CENTERLINE, UP TO 92 FT AV TREES BEGINNING 2768 FT FROM DER, 233 FT LEFT OF CENTERLINE, UP TO 94 FT AV	TO 76 FT AGI F CENTERLI GL/1044 FT M GL/1050 FT M GL/1051 FT M MSL. GL/1067 FT M	L/1040 FT MSL. NE, UP TO 76 F MSL. MSL. MSL. MSL.	

AIRPORT ID	<u>CITY</u>	<b>STATE</b>	AMDT NO	ACTUAL EFFECTIVE DATE
C04	HART/SHELBY	MI	1	

TREES, TRANSMISSION LINES, POLE BEGINNING 3434 FT FROM DER, 13 FT RIGHT OF CENTERLINE, UP TO 80 FT AGL/1058 FT MSL. TREES BEGINNING 4634 FT FROM DER, 393 FT LEFT OF CENTERLINE, UP TO 104 FT AGL/1070 FT MSL.

### CONTROLLING OBSTACLES:

RWY 9: 1066 FT MSL TREE 433849.89N/0861835.06W (CLIMB GRADIENT) (CLIMB GRADIENT TERMINATION ALTITUDE), 1082 FT MSL TREE 433821.24N/0861804.94W (CEILING) (VISIBILITY).

RWY 27: 1070 FT MSL TREE 433816.82N/0862045.86W (CLIMB GRADIENT), 1075 FT MSL TREE 433821.34N/0862052.88W (CEILING), 1070 FT MSL TREE 433813.55N/0862110.87W (VISIBILITY), 1073 FT MSL TREE 433817.36N/0862046.84W (CLIMB GRADIENT TERMINATION ALTITUDE). OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 27: 1480 FT MSL TOWER 433953.06N/0862134.33W.

## **REMARKS:**

100 FT VEGETATION USED PER FPT. Diaitally signed by

FLIGHT INSPECT SCOTT WIEBE	DAVID DANNER	<u>OFFICE</u> AJF	<u>DATE</u> 04/25/2025	
<u>DEVELOPED BY</u> TIA FERONTI	Digitally signed by Apr 29, 2025 <b>TIA L FERONTI</b> Apr 03, 2025	OFFICE AJV-A421	<b>DATE</b> 02/24/2025	
APPROVED BY DAVID DANNER	Digitally signed by <b>DAVID DANNER</b> Apr 29, 2025	OFFICE AJV-A421	<u>DATE</u> 07/03/2025	<u>TITLE</u> MANAGER

## **REQUIRED EFFECTIVE DATE:**

ROUTINE

### COORDINATED WITH:

A4A	ALPA	×	<u>AOPA</u>	×	<u>APA</u>	HAI	<u>NBAA</u>	×
OTHER:	ZAU ART	CC, A	MP ART(	CC, A	MGR			

#### **CHANGES - REASONS:**

1. CLEARS NOTAM 4/0351.- UPDATED EVALUATION AND TAKEOFF OBSTACLE NOTES, ADDITIONAL LOW CLOSE-IN OBSTACLES. 2. TAKEOFF MINIMUMS: RWY 9: "300-1 OR STANDARD WITH MINIMUM CLIMB OF 265 FT/NM TO 1200" CHANGED TO "300-1 1/8 OR STANDARD WITH MINIMUM CLIMB OF 355 FT/NM TO 1200"; RWY 27: "STANDARD" CHANGED TO "300-1 OR STANDARD WITH MINIMUM CLIMB OF 450 FT/NM TO 1200". UPDATED EVALUATION, NEW CONTROLLING OBSTACLES.

3. CONTROLLING OBSTACLES: CHANGED FROM "RWY 9: 1056 FEET MSL TREE 433821.52N/0861818.48W" TO "RWY 9: 1066 FT MSL TREE 433849.89N/0861835.06W (CLIMB GRADIENT) (CLIMB GRADIENT TERMINATION ALTITUDE), 1082 FT MSL TREE 433821.24N/0861804.94W (CEILING) (VISIBILITY). RWY 27: 1070 FT MSL TREE 433816.82N/0862045.86W (CLIMB GRADIENT), 1075 FT MSL TREE 433821.34N/0862052.88W (CEILING), 1070 FT MSL TREE 433813.55N/0862110.87W (VISIBILITY), 1073 FT MSL TREE 433817.36N/0862046.84W (CLIMB GRADIENT TERMINATION ALTITUDE).- UPDATED EVALUATION.

