

**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.

<b>City, State</b>	<b>Airport</b>	<b>Effective Date</b>	<b>Amdt. No.</b>
HART/SHELBY, MI	OCEANA COUNTY	10 DECEMBER 2015	ORIG

**TAKEOFF MINIMUMS:**

- RWY 15, 33: NA - ENVIRONMENTAL.
- RWY 27: STANDARD.
- RWY 9: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 265 FT PER NM TO 1200.

**TEXTUAL DEPARTURE PROCEDURES:**

- RWY 27: CLIMB HEADING 267.64 TO 1500 BEFORE TURNING RIGHT.

**TAKEOFF OBSTACLE NOTES:**

**RWY 9:** TERRAIN BEGINNING 74 FEET FROM DER, 196 FEET RIGHT OF CENTERLINE, UP TO 908 FEET MSL. TERRAIN BEGINNING 54 FEET FROM DER, 314 FEET LEFT OF CENTERLINE, UP TO 904 FEET MSL. TREES BEGINNING 257 FEET FROM DER, 41 FEET RIGHT OF CENTERLINE, UP TO 114 FEET AGL/1056 FEET MSL. VEHICLE ON ROAD 787 FEET FROM DER, 654 FEET LEFT OF CENTERLINE, 15 FEET AGL/926 FEET MSL. TREES BEGINNING 895 FEET FROM DER, 10 FEET LEFT OF CENTERLINE, UP TO 100 FEET AGL/1017 FEET MSL. TRANSMISSION LINE TOWER 1809 FEET FROM DER, 400 FEET LEFT OF CENTERLINE, 41 FEET AGL/958 FEET MSL.

**RWY 27:** TERRAIN BEGINNING 10 FEET FROM DER, 181 FEET RIGHT OF CENTERLINE, UP TO 970 FEET MSL. TREES BEGINNING 115 FEET FROM DER, 455 FEET LEFT OF CENTERLINE, UP TO 61 FEET AGL/976 FEET MSL. TREES BEGINNING 468 FEET FROM DER, 467 FEET RIGHT OF CENTERLINE, UP TO 56 FEET AGL/971 FEET MSL. VEHICLES ON ROAD BEGINNING 446 FEET FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 15 FEET AGL/939 FEET MSL. BUILDING 677 FEET FROM DER, 595 FEET LEFT OF CENTERLINE, 21 FEET AGL/941 FEET MSL. IRRIGATION EQUIPMENT 1163 FEET FROM DER, 657 FEET RIGHT OF CENTERLINE, 13 FEET AGL/947 FEET MSL. TERRAIN BEGINNING 1876 FEET FROM DER, 335 FEET LEFT OF CENTERLINE, UP TO 974 FEET MSL. TREES BEGINNING 1992 FEET FROM DER, 12 FEET LEFT OF CENTERLINE, UP TO 93 FEET AGL/1067 FEET MSL. TREES BEGINNING 2033 FEET FROM DER, 9 FEET RIGHT OF CENTERLINE, UP TO 64 FEET AGL/1048 FEET MSL. POLES AND TRANSMISSION LINE TOWERS BEGINNING 2323 FEET FROM DER, 480 FEET RIGHT OF CENTERLINE, UP TO 60 FEET AGL/1034 FEET MSL. TREES BEGINNING 4343 FEET FROM DER, 589 FEET LEFT OF CENTERLINE, UP TO 84 FEET AGL/1063 FEET MSL.

**CONTROLLING OBSTACLES:**

- RWY 9:** 1056 FEET MSL TREE 433821.52N/0861818.48W.
- OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 27: 1480 FEET MSL TOWER 433953.06N/0862134.33W.

**REMARKS:**



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HART/SHELBY, MI	OCEANA COUNTY	10 DECEMBER 2015	ORIG

**FLIGHT INSPECTED BY:**

TODD HAIFLEY      *Digitally signed by*      3/18/2015  
*JACOB POWERS*  
Oct 29, 2015

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

JEROME A MCCULLOUGH      AJV-353      *Digitally signed by*      12/22/2014  
*JACOB POWERS*  
Oct 29, 2015

**APPROVED BY:**

GEORGE GONZALEZ      AJV-353      *Digitally signed by*  
*JACOB POWERS*  
Oct 29, 2015

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZAU ARTCC, ZMP ARTCC, AMGR.

**CHANGES:**

ORIGINAL PROCEDURE

**REASONS:**

REQUESTED BY CENTRAL FPT

