

**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.

<b>CITY, STATE</b>	<b>AIRPORT</b>	<b>EFFECTIVE DATE</b>	<b>AMDT NO</b>
TRAVERSE CITY, MI	CHERRY CAPITAL	7 DECEMBER 2017	12

**TAKEOFF MINIMUMS:**

RWY 10: 400-3 WITH A MINIMUM CLIMB OF 220 FT PER NM TO 1200 OR STANDARD WITH MINIMUM CLIMB OF 280 FT PER NM TO 1100, OR 1300-3 FOR VCOA.

RWY 18, 400-2 3/4 WITH MINIMUM CLIMB OF 205 FT PER NM TO 1400 OR STANDARD WITH MINIMUM CLIMB OF 222 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, OR 1300-3 FOR VCOA.

RWY 28, STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 2000, OR 1300-3 FOR VCOA.

RWY 36, 400-2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 203 FT PER NM TO 1000 OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 10, CLIMB HEADING 098.70 TO 1100 FT BEFORE TURNING RIGHT.

RWY 18, CLIMB HEADING 185.17 TO 1100 FT BEFORE TURNING.

RWY 36, CLIMB HEADING 005.17 TO 1300 FT BEFORE TURNING LEFT.

**VISUAL CLIMB OVER AIRPORT:**

OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS CHERRY CAPITAL AIRPORT AT OR ABOVE 1800 BEFORE PROCEEDING ON COURSE.

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 10, TREE 1284 FT FROM DER, 739 FT LEFT OF CENTERLINE, 662 FT MSL. TREES BEGINNING 1524 FT FROM DER, 821 FT LEFT OF CENTERLINE, UP TO 663 FT MSL. TREES BEGINNING 1822 FT FROM DER, 916 FT RIGHT OF CENTERLINE, UP TO 669 FT MSL. TREE 2242 FT FROM DER, 963 FT RIGHT OF CENTERLINE, 671 FT MSL. TREES BEGINNING 2341 FT FROM DER, 941 FT RIGHT OF CENTERLINE, UP TO 672 FT MSL. TREE 2570 FT FROM DER, 1169 FT RIGHT OF CENTERLINE, 679 FT MSL. TREE 2996 FT FROM DER, 1213 FT RIGHT OF CENTERLINE, 694 FT MSL. TREES BEGINNING 3091 FT FROM DER, 1241 FT RIGHT OF CENTERLINE, UP TO 700 FT MSL. TREE 3773 FT FROM DER, 1270 FT RIGHT OF CENTERLINE, 705 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 2444 FT RIGHT OF CENTERLINE, UP TO 822 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 1356 FT RIGHT OF CENTERLINE, UP TO 922 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 1795 FT RIGHT OF CENTERLINE, UP TO 930 FT MSL. TREE 2.4 NM FROM DER, 3984 FT RIGHT OF CENTERLINE, 981 FT MSL. TREE 2.5 NM FROM DER, 3987 FT RIGHT OF CENTERLINE, 1007 FT MSL.

NOTE: RWY 18, FENCE, BUILDING BEGINNING 228 FT FROM DER, 231 FT LEFT OF CENTERLINE, UP TO 636 FT MSL. TRANSMISSION LINE 856 FT FROM DER, 695 FT RIGHT OF CENTERLINE, 34 FT AGL/660 FT MSL. TRANSMISSION LINES BEGINNING 859 FT FROM DER, 372 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/664 FT MSL. TRANSMISSION LINE 966 FT FROM DER, 654 FT LEFT OF CENTERLINE, 34 FT AGL/655 FT MSL. TRANSMISSION LINE BEGINNING 1086 FT FROM DER, 414 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/667 FT MSL. TREE 1930 FT FROM DER, 410 FT RIGHT OF CENTERLINE, 677 FT MSL. TRANSMISSION LINES, TREES BEGINNING 1.8 NM FROM DER, 2679 FT LEFT OF CENTERLINE, UP TO 942 FT MSL. TREES BEGINNING 2 NM FROM DER, 3609 FT LEFT OF CENTERLINE, UP TO 951 FT MSL. TRANSMISSION LINE 2.2 NM FROM DER, 2697 FT LEFT OF CENTERLINE, 122 FT AGL/980 FT MSL.

NOTE: RWY 28, POLES, BUILDING BEGINNING 963 FT FROM DER, 584 FT RIGHT OF CENTERLINE, UP TO 28 FT AGL/651 FT MSL. TRANSMISSION LINE 1150 FT FROM DER, 576 FT RIGHT OF CENTERLINE, 30 FT AGL/654 FT MSL. TRANSMISSION LINE 1160 FT FROM DER, 633 FT RIGHT OF CENTERLINE, 32 FT AGL/656 FT MSL. POLE, TRANSMISSION LINE BEGINNING 1162 FT FROM DER, 726 FT LEFT OF CENTERLINE, UP TO 663 FT MSL. TREE 1181 FT FROM DER, 755 FT LEFT OF CENTERLINE, 688 FT MSL. TREE, TRANSMISSION LINE BEGINNING 1226 FT FROM DER, 734 FT LEFT OF CENTERLINE, UP TO 695 FT MSL. TRANSMISSION LINE BEGINNING 1251 FT FROM DER, 625 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/658 FT MSL. TREES BEGINNING 1325 FT FROM DER, 763 FT LEFT OF CENTERLINE, UP TO 78 FT AGL/703 FT MSL. TREES, TRANSMISSION LINE BEGINNING 1421 FT FROM DER, 7 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/705 FT MSL. TREE 1456 FT FROM DER, 611 FT RIGHT OF CENTERLINE, 675 FT MSL. TREES BEGINNING 1495 FT FROM DER, 604 FT RIGHT OF CENTERLINE, UP TO 694 FT MSL. TREES BEGINNING 1664 FT FROM DER, 617 FT RIGHT OF CENTERLINE, UP TO 699 FT MSL. TREES BEGINNING 1708 FT FROM DER, 603 FT RIGHT OF CENTERLINE, UP TO 701 FT MSL. TREES BEGINNING 2275 FT FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 708 FT MSL. TREES BEGINNING 2960 FT FROM DER, 82 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/706 FT MSL. TREES BEGINNING 3033 FT FROM DER, 69 FT LEFT OF CENTERLINE, UP TO 707 FT MSL. TREE 3596 FT FROM DER, 278 FT LEFT OF CENTERLINE, 88 FT AGL/714 FT MSL.

NOTE: RWY 36, POLES, TREES, TRANSMISSION LINE BEGINNING 734 FT FROM DER, 62 FT LEFT OF CENTERLINE, UP TO 37 FT AGL/655 FT MSL. TREES, BUILDINGS, TRANSMISSION LINE, SIGN BEGINNING 803 FT FROM DER, 247 FT RIGHT OF CENTERLINE, UP TO 657 FT MSL. TREES, POLE, TRANSMISSION LINE BEGINNING 936 FT FROM DER, 107 FT RIGHT OF CENTERLINE, UP TO 664 FT MSL. TREES BEGINNING 974 FT FROM DER, 488 FT RIGHT OF CENTERLINE, UP TO 684 FT MSL. TREES, TRANSMISSION LINE BEGINNING 1028 FT FROM DER, 16 FT RIGHT OF CENTERLINE, UP TO 685 FT MSL. TREES BEGINNING 1234 FT FROM DER, 34 FT LEFT OF CENTERLINE, UP TO 671 FT MSL. TREES BEGINNING 1322 FT FROM DER, 91 FT LEFT OF CENTERLINE, UP TO 673 FT MSL. TREES BEGINNING 1350 FT FROM DER, 12 FT LEFT OF CENTERLINE, UP TO 682 FT MSL. TREES BEGINNING 1405 FT FROM DER, 115 FT RIGHT OF CENTERLINE, UP TO 688 FT MSL. TREES BEGINNING 1420 FT FROM DER, 71 FT RIGHT OF CENTERLINE, UP TO 689 FT MSL. TREES BEGINNING 1460 FT FROM DER, 120 FT LEFT OF CENTERLINE, UP TO 685 FT MSL. TREES BEGINNING 1511 FT FROM DER, 355 FT RIGHT OF CENTERLINE, UP TO 690 FT MSL. TREES BEGINNING 1514 FT FROM DER, 52 FT RIGHT OF CENTERLINE, UP TO 691 FT MSL. TREES, TRANSMISSION LINE, BEGINNING 1517 FT FROM DER, 23 FT LEFT OF CENTERLINE, UP TO 692 FT MSL. TREES BEGINNING 1754 FT FROM DER, 87 FT RIGHT OF CENTERLINE, UP TO 704 FT MSL. TREES BEGINNING 1809 FT FROM DER, 7 FT RIGHT OF CENTERLINE, UP TO 706 FT MSL. TREES, TRANSMISSION LINE BEGINNING 1866 FT FROM DER, 59 FT LEFT OF CENTERLINE, UP TO 693 FT MSL. TREES, TRANSMISSION LINE BEGINNING 2246 FT FROM DER, 141 FT LEFT OF CENTERLINE, UP TO 695 FT MSL. TREE 2407 FT FROM DER, 310 FT LEFT OF CENTERLINE, 696 FT MSL. TREES BEGINNING 2425 FT FROM DER, 48 FT LEFT OF CENTERLINE, UP TO 697 FT MSL. TREES BEGINNING 2956 FT FROM DER, 102 FT

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FT LEFT OF CENTERLINE, UP TO 714 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 2547 FT RIGHT OF CENTERLINE, UP TO 859 FT MSL. TREE 1.6 NM FROM DER, 2939 FT RIGHT OF CENTERLINE, 862 FT MSL. TREES BEGINNING 2 NM FROM DER, 1898 FT RIGHT OF CENTERLINE, UP TO 937 FT MSL.



**CONTROLLING OBSTACLES:**

RWY 10: 922 FT MSL TREE 444349.98N-0853147.88W (280 FT PER NM CLIMB GRADIENT), 930 FT MSL TREE 444348.72N-0853144.18W (1100 CLIMB TO ALTITUDE), 1059 FT MSL TANK 444349.89N-0853004.22W (220 FT PER NM CLIMB GRADIENT/1200 CLIMB TO ALTITUDE), 1007 FT MSL TREE 444334.63N-0853022.27W (CEILING/VISIBILITY).

RWY 18: 980 FT MSL TRANSMISSION LINE 444150.69N-0853439.14W (CEILING/VISIBILITY), 942 FT MSL TREE 444214.04N-0853433.80W (222 FT PER NM CLIMB GRADIENT/1100 CLIMB TO ALTITUDE), 1206 FT MSL TOWER 444023.20N-0853624.01W (205 FT PER NM CLIMB GRADIENT/1400 CLIMB TO ALTITUDE).

RWY 28: 1658 FT MSL TOWER 444537.47-0854058.09W (CLIMB GRADIENT/CLIMB TO ALTITUDE).

RWY 36: 937 FT MSL TREE 444706.62N-0853447.92W (VISIBILITY), 937 FT MSL TREE 444705.85N-0853448.82W (CEILING/CLIMB TO ALTITUDE), 851 FT MSL TREE 444632.07N-0853438.91W (CLIMB GRADIENT).

VCOA: 1259 FT MSL TOWER 444504.00N-0853934.00W (VCA), 1658 FT MSL TOWER 444537.47N-0854058.09W (CLIMB TO ALTITUDE).

OBSTACLES MANDATING ODP DEVELOPMENT: RWY 10: 956 MSL TREE 444344.42N-0853145.13W; RWY 18: 959 MSL TREE 444201.46N-0853413.70W; RWY 36: 1658 MSL TOWER 444537.47N-0854058.09W.

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**REMARKS:**

**FLIGHT INSPECTED BY:** *Digitally signed by*  
**ROBERT G HAMILTON**  
SCOTT WIEBE  
Oct 23, 2017

**OFFICE SYMBOL:**  
FICO  
**DATE:**  
10/18/17

**DEVELOPED BY:** *Digitally signed by*  
**ROBERT G HAMILTON**  
DARREN HOOPER  
(STEVEN VARGAS)  
Oct 23, 2017

**OFFICE SYMBOL:**  
AJV-5421  
**DATE:**  
08/09/2017

**APPROVED BY:** *Digitally signed by*  
**ROBERT G HAMILTON**  
JULIE MORGAN  
Oct 23, 2017

**OFFICE SYMBOL:**  
AJV-5420  
**DATE:**

**REQUIRED EFFECTIVE DATE:**  
ROUTINE

**COORDINATED WITH:**

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

**OTHER:**

**CHANGES - REASONS:**

**CHANGES:**

1. CHANGED TAKEOFF MINIMUMS RWY 10 FROM "STANDARD W/MIN CLIMB OF 288' PER NM TO 1400 OR 1400-2 1/2 FOR CLIMB IN VISUAL CONDITIONS" TO READ "400-3 WITH A MINIMUM CLIMB OF 220 FT PER NM TO 1200 OR STANDARD WITH MINIMUM CLIMB OF 280 FT PER NM TO 1100, OR 1300-3 FOR VCOA".
2. CHANGED TAKEOFF MINIMUMS RWY 18 FROM "STD W/MIN CLIMB OF 216' PER NM TO 1400, OR ALTERNATIVELY, WITH WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200' PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1800' PRIOR TO DER, OR 1400-2 1/2 FOR CLIMB IN VISUAL CONDITIONS" TO READ "400-2 3/4 WITH MINIMUM CLIMB OF 205 FT PER NM TO 1400 OR STANDARD WITH MINIMUM CLIMB OF 222 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, OR 1300-3 FOR VCOA".
3. CHANGED TAKEOFF MINIMUMS RWY 28 FROM "STD. MIN. CLIMB OF 342' PER NM TO 2100, OR 1400-2 1/2 FOR CLIMB IN VISUAL CONDITIONS" TO READ "STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 2000, OR 1300-3 FOR VCOA".
4. CHANGED TAKEOFF MINIMUMS RWY 36 FROM "400-2 1/2 OR STD. W/MIN. CLIMB OF 202' PER NM TO 1100, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200' PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200' PRIOR TO DER" TO READ "400-2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 203 FT PER NM TO 1000 OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER".
5. ADDED TEXTUAL DEPARTURE PROCEDURE: "RWY 10, CLIMB HEADING 098.70 TO 100 BEFORE TURNING RIGHT".
6. CHANGED TEXTUAL DEPARTURE PROCEDURE FOR RWY 18 FROM "CLIMB HEADING 185 TO 1400 BEFORE TURNING," TO READ "CLIMB HEADING 185.17 TO 1100 FT BEFORE TURNING".
7. CHANGED TEXTUAL DEPARTURE FOR RWY 36 FROM "CLIMB HEADING 005 TO 1400 BEFORE TURNING LEFT" TO READ "CLIMB HEADING 005.17 TO 1300 FT BEFORE TURNING LEFT".
8. CHANGED VISUAL CLIMB OVER AIRPORT ALTITUDE FROM 1900 TO 1800.
9. UPDATED TAKEOFF OBSTACLE NOTES AND CONTROLLING OBSTACLES FOR ALL RUNWAYS.

**REASONS:**

- 1-7. NEW VERTICAL GUIDED SURVEY DATA, NEW CONTROLLING, NEW CLIMB TO ALTITUDE, AND NEW CEILING/VISIBILITY OBSTACLES IDENTIFIED.
- 8,9. RWY 10 THRESHOLD EXTENSION CHANGED RWY 28 TAKEOFF MINIMUMS. NEW OBSTACLES IDENTIFIED AFFECTING ALL RUNWAYS DEPARTURE PROCEDURES.

10/20/2017: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/09/2017.

1. CHANGES SECTION, ITEM #5 CHANGED FROM "RWY 10 CLIMB HEADING 098.70 TO 100 BEFORE TURNING RIGHT." TO "RWY 10 CLIMB HEADING 098.70 TO 1100 BEFORE TURNING RIGHT."