

**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.

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>	<u>AMDT NO</u>	<u>ACTUAL EFFECTIVE DATE</u>
KMHL	MARSHALL	MO	1	30 NOVEMBER 2023

TAKEOFF MINIMUMS:

RWY 9, 27: NA - ENVIRONMENTAL.
RWY 18, 36: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

RWY 18: CLIMB ON HEADING 177.96 TO 1600 BEFORE TURNING RIGHT.
RWY 36: CLIMB ON HEADING 357.96 TO 1200 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

RWY 18: SIGN 15 FT FROM DER, 199 FT LEFT OF CENTERLINE, 4 FT AGL/780 FT MSL. GENERAL UTILITY 37 FT FROM DER, 77 FT RIGHT OF CENTERLINE, 4 FT AGL/780 FT MSL. POLE 231 FT FROM DER, 448 FT LEFT OF CENTERLINE, 31 FT AGL/801 FT MSL. BUILDING 278 FT FROM DER, 573 FT LEFT OF CENTERLINE, 39 FT AGL/811 FT MSL.

NOTE: RWY 36: TREES, POLES BEGINNING 15 FT FROM DER, 356 FT LEFT OF CENTERLINE, UP TO 829 FT MSL. TREE, POLE BEGINNING 167 FT FROM DER, 446 FT RIGHT OF CENTERLINE, UP TO 809 FT MSL. TOWER 318 FT FROM DER, 482 FT RIGHT OF CENTERLINE, 53 FT AGL/817 FT MSL. TREES BEGINNING 450 FT FROM DER, 494 FT RIGHT OF CENTERLINE, UP TO 829 FT MSL. TREE 507 FT FROM DER, 399 FT LEFT OF CENTERLINE, 831 FT MSL. TREES BEGINNING 515 FT FROM DER, 387 FT LEFT OF CENTERLINE, UP TO 845 FT MSL. TREES, POLE BEGINNING 669 FT FROM DER, 15 FT RIGHT OF CENTERLINE, UP TO 837 FT MSL. TREES, POLES BEGINNING 781 FT FROM DER, 40 FT LEFT OF CENTERLINE, UP TO 847 FT MSL. TREES, POLE BEGINNING 1036 FT FROM DER, 25 FT LEFT OF CENTERLINE, UP TO 849 FT MSL. TREES, POLE BEGINNING 1235 FT FROM DER, 12 FT RIGHT OF CENTERLINE, UP TO 838 FT MSL. TREES BEGINNING 1328 FT FROM DER, 76 FT LEFT OF CENTERLINE, UP TO 853 FT MSL. TREES BEGINNING 1383 FT FROM DER, 30 FT LEFT OF CENTERLINE, UP TO 862 FT MSL. TREES BEGINNING 1577 FT FROM DER, ON CENTERLINE, UP TO 848 FT MSL. TREES BEGINNING 1754 FT FROM DER, 44 FT RIGHT OF CENTERLINE, UP TO 858 FT MSL. TREE 2555 FT FROM DER, 612 FT RIGHT OF CENTERLINE, 860 FT MSL. TREES BEGINNING 2564 FT FROM DER, 81 FT RIGHT OF CENTERLINE, UP TO 867 FT MSL. TREE 4268 FT FROM DER, 485 FT LEFT OF CENTERLINE, 884 FT MSL.

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 18: 1737 FT MSL TOWER 390313.00N/0931601.00W, RWY 36: 1163 FT MSL ANTENNA 390804.21N/0931320.65W.

REMARKS:

FLIGHT INSPECTED BY
JOHN KEARBY

Digitally signed by
JASON KRETSCHMER
Aug 28, 2023

OFFICE
FPO

DATE
08/23/2023

DEVELOPED BY
CHARLES B. BROOKS

Digitally signed by
JASON KRETSCHMER
Jul 20, 2023

OFFICE
AJV-A421

DATE
02/14/2023

APPROVED BY
JASON KRETSCHMER

Digitally signed by
JASON KRETSCHMER
Jul 20, 2023

OFFICE
AJV-A421

DATE
11/30/2023

TITLE
MANAGER

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒
OTHER: **ZKC, SZL APP CON, MO. ST. AERO, AMGR**

CHANGES - REASONS:

1. ADDED RWY 9, 27, NA ENVIRONMENTAL. - UNPAVED RUNWAYS WITHOUT LIGHTS, MARKINGS.
2. TAKEOFF MINIMUMS CHANGED FROM: RWY 18: STANDARD WITH MINIMUM CLIMB OF 284 FT/NM TO 2100, OR 1300-3 FOR VCOA. TO: STANDARD - ADDED TEXTUAL DEPARTURE PROCEDURE TO MITIGATE CONTROLLING OBSTACLE PER 8260.46J.
3. TAKEOFF MINIMUMS CHANGED FROM: RWY 36: STANDARD WITH MINIMUM CLIMB OF 263 FT/NM TO 1500, OR 1300-3 FOR VCOA. TO: STANDARD - ADDED TEXTUAL DEPARTURE PROCEDURE TO MITIGATE CONTROLLING OBSTACLE PER 8260.46J.
4. ADDED TEXTUAL DEPARTURE PROCEDURES: RWY 18: CLIMB ON HEADING TO 177.96 TO 1600 BEFORE TURNING RIGHT, RWY 36: CLIMB ON HEADING 357.96 TO 1200 BEFORE TURNING LEFT. - TO MITIGATE CONTROLLING OBSTACLE PER 8260.46J.
5. DELETED VISUAL CLIMB OVER AIRPORT. - RWY 18, 36 STANDARD VCOA NOT REQUIRED PER 8260.46J.
6. UPDATED LOW CLOSE IN OBSTACLES. - NEW SURVEY
7. UPDATED CONTROLLING OBSTACLES TO OBSTACLES MANDATING ROUTE - DEPARTURE CHANGED FROM STANDARD TO ROUTE TO MITIGATE CONTROLLING OBSTACLE PER 8260.46J.

AIRPORT ID
KMHL

CITY
MARSHALL

STATE
MO

AMDT NO
1

ACTUAL EFFECTIVE DATE
30 NOVEMBER 2023

