

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>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
BOWIE, MD	FREEWAY	22 JUNE 2017	3

TAKEOFF MINIMUMS:

RWY 18, 300-2 OR STANDARD WITH MINIMUM CLIMB OF 391 FT PER NM TO 400.
RWY 36, 300-2 OR STANDARD WITH MINIMUM CLIMB OF 726 FT PER NM TO 500.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 18, TREE 134 FT FROM DER, 505 FT RIGHT OF CENTERLINE, 100 FT AGL/225 FT MSL.
TREES BEGINNING 174 FT FROM DER, 38 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/228 FT MSL.
TREES 254 FT FROM DER, 195 FT LEFT OF CENTERLINE, 100 FT AGL/232 FT MSL.
TREES BEGINNING 293 FT FROM DER, 144 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/242 FT MSL.
TREES BEGINNING 513 FT FROM DER, 89 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/235 FT MSL.
TREE 593 FT FROM DER, 378 FT LEFT OF CENTERLINE, 100 FT AGL/245 FT MSL.
TREE 632 FT FROM DER, 611 FT LEFT OF CENTERLINE, 100 FT AGL/251 FT MSL.
TREES BEGINNING 812 FT FROM DER, 140 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/245 FT MSL.
TREES BEGINNING 852 FT FROM DER, 93 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/255 FT MSL.
TREE 932 FT FROM DER, 560 FT LEFT OF CENTERLINE, 100 FT AGL/258 FT MSL.
TREES BEGINNING 1111 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/248 FT MSL.
TREES BEGINNING 1151 FT FROM DER, 42 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/265 FT MSL.
TREES BEGINNING 1271 FT FROM DER, 123 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/268 FT MSL.
TREES BEGINNING 1533 FT FROM DER, 30 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/279 FT MSL.
TREES BEGINNING 2388 FT FROM DER, 72 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/271 FT MSL.
TREES BEGINNING 2467 FT FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/274 FT MSL.
TREES BEGINNING 2807 FT FROM DER, 203 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/281 FT MSL.
TREES BEGINNING 3146 FT FROM DER, 152 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/284 FT MSL.
TREES BEGINNING 3485 FT FROM DER, 1087 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/297 FT MSL.
TREES BEGINNING 3590 FT FROM DER, 50 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/319 FT MSL.

NOTE: RWY 36, TREES BEGINNING 58 FT FROM DER, 190 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/274 FT MSL.
VEHICLES ON ROAD BEGINNING 112 FT FROM DER, ON CENTERLINE, 15 FT AGL/167 FT MSL.
TREE 138 FT FROM DER, 42 FT LEFT OF CENTERLINE, 100 FT AGL/271 FT MSL.
TREES BEGINNING 178 FT FROM DER, 121 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/274 FT MSL.
TREES BEGINNING 357 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/281 FT MSL.
TREES BEGINNING 1116 FT FROM DER, 355 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/278 FT MSL.
TREES BEGINNING 1335 FT FROM DER, 163 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/291 FT MSL.
TREES BEGINNING 1375 FT FROM DER, 70 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/288 FT MSL.
TREES BEGINNING 1634 FT FROM DER, 32 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/294 FT MSL.
TREES BEGINNING 1674 FT FROM DER, 18 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/294 FT MSL.
TREES BEGINNING 2272 FT FROM DER, 83 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/297 FT MSL.
TREES BEGINNING 2393 FT FROM DER, 616 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/297 FT MSL.
TREES BEGINNING 2531 FT FROM DER, 4 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/301 FT MSL.
T-L TWR, TREES BEGINNING 2587 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 133 FT AGL/382 FT MSL.

CONTROLLING OBSTACLES:

RWY 18: 319 FT MSL TREE 385545.48N/0764557.29W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 399 FT MSL AAO 385445.64N/0764526.46W (CEILING/
VISIBILITY).

RWY 36: 332 FT MSL T-L TOWER 385706.14N/0764628.81W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 414 FT MSL AAO 385812.00N/0764712.00W
CEILING/VISIBILITY).

REMARKS:

RWY 36 RWY 36 CONTROLLING OBSTACLE ACCURACY CODE 4D VERIFIED BY FLIGHT CHECK.

FLIGHT INSPECTED BY: *Digitally signed by*
GARY BELL
DONALD H LANIER
Apr 19, 2017

OFFICE SYMBOL:
FICO
DATE:
05/05/2017

DEVELOPED BY:
COLTON CROWDER

Digitally signed by
COLTON CROWDER
Apr 10, 2017

OFFICE SYMBOL:
AJV-5431
DATE:
02/07/2017



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BOWIE, MD	FREEWAY	22 JUNE 2017	3

APPROVED BY:	<i>Digitally signed by</i>	OFFICE SYMBOL:	DATE:
PATRICK MULQUEEN	DONALD H LANIER	AJV-5430	
	Apr 19, 2017		

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

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

OTHER:
ZDC, POTOMAC APP CON, AMGR

CHANGES - REASONS:

1. CHANGE: TAKEOFF MINIMUMS RWY 18 CHANGED FROM "300-1 OR STD W/MIN CLIMB OF 380 FT PER NM TO 400." TO "300-2 OR STANDARD WITH MINIMUM CLIMB OF 391 FT PER NM TO 400." - REASON: UPDATED OBSTACLE EVALUATION WITH NO SURVEY REQUIRED ADDITION OF 100 FT TREES AND 200 FT AAO(S) PLACED ON HIGH TERRAIN RESULTING IN HIGHER CLIMB GRADIENT AND INCREASED VISIBILITY REQUIRED.
2. CHANGE: TAKEOFF MINIMUMS RWY 36 CHANGED FROM "300-2 OR STD W/MIN CLIMB OF 725 FT PER NM TO 600." TO "STANDARD WITH MINIMUM CLIMB OF 726 FT PER NM TO 500." - REASON: UTILIZED TARGETS FOR DIVERSE EVALUATION, CLIMB GRADIENT REQUIRES 726 FT PER NM. TRANSMISSION LINES AND ASSOCIATED TOWERS CANNOT BE MITIGATED WITH CEILING AND VISIBILITY DUE TO LOCATION.
3. CHANGE: UPDATED TAKEOFF OBSTACLE NOTES. - REASON: TAKEOFF NOTES UPDATED TO REFLECT OBSTACLE GROUPER RESULTS.
4. DELETED REMARK "RWY 36 CONTROLLING OBSTACLE (332 MSL TRANSMISSION LINE TOWER, 24-001034) EVALUATED WITH 4D AC(SEE 2005-AEA-1789-OE)."
5. ADDED REMARK "RWY 36 CONTROLLING OBSTACLE EVALUATED USING 4D ACCURACY CODE, FLIGHT CHECK REQUESTED FOR VERIFICATION."
6. RWY 18 CONTROLLING OBSTACLES CHANGED FROM "319 FT MSL TREES 385545.25N/0764556.50W. 305 FT MSL TOWER 385543.00N/0764556.00W." TO "319 FT MSL TREE 385545.48N/0764557 (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 399 FT MSL AAO 385445.64N/0764526.46W (CEILING/VISIBILITY)."
7. RWY 36 CONTROLLING OBSTACLES CHANGED FROM "332 FT MSL TRANSMISSION LINE TOWER 385706.14N/0764628.81W. 439 FT MSL AAO 385815.30N/0764704.60W." TO "332 FT MSL T-L TOWER 385706.14N/0764628.81W (CLIMB GRADIENT/CLIMB-TO ALTITUDE), 214 FT MSL AAO 385812.00N/0764712.00W CEILING), 214 FT MSL AAO 385812.00N/70764715.00W (VISIBILITY)."

THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/07/2017.

1. ADDED "300-2 OR" TO RWY 36 TAKEOFF MINIMUMS.
2. ADDED "VEHICLES ON ROAD BEGINNING 112 FT FROM DER, ON CENTERLINE, 15 FT AGL/167 FT MSL." TO RWY 36 TAKEOFF OBSTACLE NOTES.
3. CHANGED REMARKS FROM: "RWY 36 CONTROLLING OBSTACLE EVALUATED USING 4D ACCURACY CODE, FLIGHT CHECK REQUESTED FOR VERIFICATION." TO "RWY 36 CONTROLLING OBSTACLE ACCURACY CODE 4D VERIFIED BY FLIGHT CHECK."

