FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE GRAPHIC DEPARTURE PROCEDURES (DP)

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 abo	ove airport eleva	tion. Distances are i	in nautical miles. Visibilities are in statue	miles or feet RVR unless otherwise indicated.		
DP NAM	<u>1E</u>					NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DAT
ГНИМВ						ONE	THUMB1.THUMB	NONE		
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV					
			\boxtimes		\boxtimes					
	TE DESCRIPTIO	DN:								
	Y INTL (BDL):	ON LIEADING	050 20 TO (NA TUEN ON U		20 00 40 40	CICNED DV ATC FOR DADAG	NECTORS TO COETS, THENCE		
				-,			-, -	R VECTORS TO GOETS, THENCE AR VECTORS TO GOETS. THENCI		
				,			- , -	AR VECTORS TO GOETS, THENCI		
TAKEOF	F RWY 33: CLIM	IB ON HEADING	G 328.38 TO	673, THEN ON I	HEADING 32	28.38 OR AS AS	SSIGNED BY ATC, FOR RADA	AR VECTORS TO GOETS, THENC	≣	
	ON TR	ACK 147.11 TO	THUMB, TH	EN ON CALVER	TON TRANS	SITION. MAINT	AIN 4000. EXPECT FILED ALT	TITUDE 10 MINUTES AFTER DEPA	RTURE.	
IADTEO		(UED).								
	RD-BRAINARD F RWY 2: CLIME	\ //	023 95 TO 2	2500 FOR RADA	R VECTORS	S TO GOETS T	THENCE			
				2500 FOR RADA		,				
A/EOTEU		ONII (DAE)								
	ELD-BARNES R F RWY 2: CLIME	\ /	024 21 TO 3	3000 FOR RADA	R VECTORS	S TO GOETS T	THENCE			
				2500 FOR RADA		,				
				3000 FOR RADA		,				
AKEOF	F RWY 33: CLIN	IB ON HEADING	<i>3</i> 334.21 TO	3000 FOR RADA	AR VECTOR	RS TO GOETS,	THENCE			
WESTO\	/ER ARB/METR	O (CEF):								
				2600 FOR RADA		,				
				2500 FOR RADA 2500 FOR RADA		,				
				3000 FOR RADA		,				

...ON TRACK 147.11 TO THUMB, THEN ON CALVERTON TRANSITION. MAINTAIN 3000. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	<u>FROM</u> <u>FIX/NAVAID</u>	<u>TO</u> <u>FIX/NAVAID</u>	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
CALVERTON	THUMB1.CCC	THUMB1.CCC THUMB NTM		TRACK 214.40	15.87	5000	1900	
		NTMEG	CCC VOR/DME	TRACK 228.92	25.24	5000	1600	

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS.

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED



PROCEDURAL DATA NOTES:

TAKEOFF MINIMUMS:

BRADLEY INTL (BDL):

RWY 6: STANDARD WITH MINIMUM CLIMB OF 235 FT/NM TO 2500.

RWY 15: STANDARD WITH MINIMUM CLIMB OF 235 FT/NM TO 2500.

RWY 24: STANDARD WITH MINIMUM CLIMB OF 235 FT/NM TO 2500.

RWY 33: STANDARD WITH MINIMUM CLIMB OF 345 FT/NM TO 2200.

HARTFORD-BRAINARD (HFD):

RWY 11. 29: NA - ENVIRONMENTAL.

RWY 2: STANDARD WITH MINIMUM CLIMB OF 250 FT/NM TO 2500.

RWY 20: STANDARD WITH MINIMUM CLIMB OF 250 FT/NM TO 2500.

WESTFIELD-BARNES RGNL (BAF):

RWY 2: STANDARD WITH MINIMUM CLIMB OF 275 FT/NM TO 3000.

RWY 15: STANDARD WITH MINIMUM CLIMB OF 460 FT/NM TO 800.

RWY 20: STANDARD WITH MINIMUM CLIMB OF 275 FT/NM TO 3000.

RWY 33: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 3000.

WESTOVER ARB/METRO (CEF):

RWY 5: STANDARD WITH MINIMUM CLIMB OF 240 FT/NM TO 2400.

RWY 15: STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 2500.

RWY 23: STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 2500.

RWY 33: STANDARD WITH MINIMUM CLIMB OF 325 FT/NM TO 2300.

TAKEOFF OBSTACLES NOTES:

BRADLEY INTL (BDL):

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

HARTFORD-BRAINARD (HFD):

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

WESTFIELD-BARNES RGNL (BAF):

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

WESTOVER ARB/METRO (CEF):

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:

BRADLEY INTL (BDL):

RWY 33: 760 TREE 415739.00N/0724424.00W

WESTFIELD-BARNES RGNL (BAF):

RWY 15: 592 TREE (25-045315) 420839.66N/0724122.09W.

WESTOVER ARB/METRO (CEF):

RWY 5: 948 AAO 421451.00N/0722712.00W.

OVALITY 12 CHECKED <u>DP NAME</u>
THUMB

NUMBER

DP COMPUTER CODE
SUPERSEDED NUMBER
DATED
ACTUAL EFFECTIVE DATE
THUMB1.THUMB
NONE

RWY 33: 500 TREE 421315.00N/07227.00W.

MSA:

MSA FROM KBDL - 3300. MSA FROM KBAF - 3600.

MSA FROM KCEF - 3600.

MSA FROM KHFD - 3100.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

BRADLEY INTL (BDL) - CHART: TOP ALTITUDE: 4000.

HARTFORD-BRAINARD (HFD), WESTOVER ARB/METRO (CEF) AND WESTFIELD-BARNES (BAF) - CHART: TOP ALTITUDE: 3000.

AIRPORT MAGVAR: BDL (P) 14W/1980. DME/DME ASSESSMENT: SAT (RNP 2.0).

AIRPORTS SERVED:

AINFORTS SERVED.									
	AIRPORT ID	<u>CITY</u>	STATE						
	KBDL	WINDSOR LOCKS	СТ						
	KBAF	WESTFIELD/SPRINGFIELD	MA						
	KCEF	CHICOPEE/SPRINGFIELD	MA						
	KHFD	HARTFORD	СТ						

COMMUNICATIONS:

BRADLEY INT (BDL): ATIS, CLNC DEL, GND, CPDLC, TOWER HARTFORD-BRAINARD (HFD): CTAF, ATIS, GND, TOWER WESTFIELD-BARNES RGNL (BAF): ATIS, GND, TOWER WESTOVER ARB/METRO (CEF): CTAF, ATIS, GND, TOWER

FIXES AND/OR NAVAIDS:

REMARKS:

ATC HAS VERIFIED AIRCRAFT ARE NOT VECTORED BELOW THE MVA. PROCEDURE DEVELOPED FOR AIRCRAFT TO REACH THE MVA BEFORE TURNING WHICH ENSURES OBSTACLE CLEARANCE. AFS WAIVER TO NOT CHART IF ALTITUDE.

PER FPT - WORST-CASE VEGETATION HEIGHT 100 FEET.

AIRPORTS/RWYS APPLIED CLIMB GRADIENTS TO REACH THE MVA WITHIN 10NM: KBDL: RWY 6, 15, 24. KHFD: RWY 2, 20. KBAF: RWY 2, 20. KCEF: RWY 15, 23.

AIRPORTS/RWYS APPLIED CLIMB GRADIENTS TO A HIGHER ALTITUDE THAN REQUIRED FOR OBSTACLE REQUIRED CLIMB-TO ALTITUDE TO REACH THE MVA WITHIN 10 NM: KBDL: RWY 33

KBAF: RWY 15. KCEF: RWY 5, 33.

AIRPORT/RWY APPLIED CLIMB GRADIENT TO REACH 3000 FOOT MVA PRIOR TO 3800 FOOT MVA: KBAF RWY 33.



<u>DP NAME</u> THUMB			NUMBER ONE	DP COMPUTER CODE THUMB1.THUMB	SUPERSEDED NUMBER NONE	DATED	ACTUAL EFFECTIVE DATE
FLIGHT INSPECTED B	Y	SIGNATURE			OFFICE	<u>DATE</u>	
DEVELOPED BY BOYD L STUCKEY	Digitally signed by CASEY D HILL Jul 10, 2025	SIGNATURE			OFFICE AJV-A421	DATE 02/18/2025	
APPROVED BY DAVE DANNER REQUIRED EFFECTIVE	Digitally signed by CASEY D HILL Jul 10, 2025 E DATE	SIGNATURE			OFFICE AJV-A421	DATE	<u>TITLE</u> MANAGER

ROUTINE

COORDINATED WITH:

NBAA 🔀 $A4A \times$ $ALPA \times$ AOPA X $APA \times$ HAI OTHER: ZBW, BDL APP CON, BDL ATCT, HFD ATCT, BAF ATCT, AMGR(S), CEF ATCT.

CHANGES - REASONS:

06/24/2025:THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/8/2025. DP ROUTE DECRIPTION: BRADLEY INTL (BDL) ADDED: "OR AS ASSIGNED BY ATC" TO EACH RUNWAY ROUTE DESCRIPTION.

07/10/2025:THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/8/2025. DP ROUTE DECRIPTION: BRADLEY INTL (BDL) UPDATED CLIMB-TO ALTITUDE FROM "2500/3000" TO "673".

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE DEPARTURE (DATA RECORD)

DP NAME THUMB						NUMBER ONE	DP COMPUTER CODE THUMB1.THUMB	SUPERSEDED NUMBER NONE	<u>DATED</u>	ACTUAL EFFECTIVE DATE
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	LEG TYPE	<u>TC</u>	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW6 (AER)	415555.25N/0724147.69W	N	-	-	-	-			CG 235 FT/NM TO 2	500
673 MSL	-	-	-	VA	044.38	-				
-	-	-	-	VM	044.38	-				
RW15 (AER)	415632.63N/0724135.71W	N	-	-	-	-			CG 235 FT/NM TO 2	500
673 MSL	-	-	-	VA	134.37	-				
-	-	-	-	VM	134.37	-				
RW24 (AER)	415702.40N/0724019.67W	N	-	-	-	-			CG 235 FT/NM TO 29	500
673 MSL	-	-	-	VA	224.39	-				
-	-	-	-	VM	224.39	-				
RW33 (AER)	415545.32N/0724030.96W	N	-	_	-	-			CG 345 FT/NM TO 2	200
673 MSL	-	-	-	VA	314.38	-				
-	-	-	-	VM	314.38	-				
GOETS	414212.65N/0723652.37W	Y	-	IF	-	-				
THUMB	413123.96N/0722131.80W	Υ	FB	TF	133.11	15.79				QUALI7_
										12 Su 29

<u>DP NAME</u> THUMB						NUMBER ONE	DP COMPUTER CODE THUMB1.THUMB	SUPERSEDED NUMBER NONE	<u>DATED</u>	ACTUAL EFFECTIVE DATE
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/ FB	LEG TYPE	<u>TC</u>	DIST (NM)	ALTITUDE	SPEED	REMARKS	
THUMB	413123.96N/0722131.80W	Υ	-	IF	-	-			THUMB1.CCC	
NTMEG	411630.75N/0722852.08W	Υ	FB	TF	200.40	15.87				
CCC	405546.63N/0724755.89W	Υ	FB	TF	214.92	25.24				