

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: HASUM **STATE:** MA **COUNTRY:** US **ICAO REGION CODE:** K6

LATITUDE/LONGITUDE: 420126.66N/0711449.18W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX RESTRICTIONS:
SPECIAL ONLY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL IAP	COPTER RNAV (GPS) M 139			1B9	MANSFIELD	MA (US)

REQUIRED CHARTING: SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/14/2026

REASON FOR REVISION:

1. FIX MOVED 1610.50 FEET NORTHWEST, FROM 420118.07N/0711431.22W TO 420126.66N/0711449.18W.
2. FIX RESTRICTIONS: ADDED SPECIAL ONLY.
3. FIX USE: DELETED COPTER RNAV (GPS) Y RWY 14 AT 1B9.
4. FIX USE: ADDED SPECIAL IAP COPTER RNAV (GPS) M 139 AT 1B9.
5. REQUIRED CHARTING: DELETED IAP AND ADDED SPECIAL IAP.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A422 **NAME:** RICHARD BRUCE

APPROVED BY: **DATE:** 04/09/2026 **OFFICE:** AJV-A420 **NAME:** BEV L BORDY

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: MILIS STATE: MA COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 420618.59N/0711841.62W TYPE: WP, INT, DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	BOSTON	BOS	VOR/DME		239.60	223.60	20.86	20.86	2000	17500
2	GARDNER	GDM	VOR/DME	VL	142.25	128.25		42.46	2000	6300

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
GDM	VOR/DME	R-142	43	2000	6300

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SECTIONAL ADDED PER ATC REQUEST

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL IAP	COPTER RNAV (GPS) M 139			1B9	MANSFIELD	MA (US)
EN ROUTE	T224					(US)
EN ROUTE	V3	1, 2				(US)

REQUIRED CHARTING: SECTIONAL, EN ROUTE LOW, SPECIAL IAP, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 24 DATE OF REVISION: 05/14/2026

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES, FAC 2: CHANGED MAA FROM 17500 TO 6300.
2. EXPANDED SERVICE VOLUME (ESV): GDM, CORRECTED MAX ALTITUDE FROM 17500 TO 6300.
3. REMARKS: DELETED "PRECIPITOUS TERRAIN EVALUATION COMPLETE."
4. FIX USE: ADDED SPECIAL IAP COPTER RNAV (GPS) M 139 AT 1B9.
5. FIX USE: DELETED COPTER RNAV (GPS) Y RWY 14 AT 1B9.
6. REQUIRED CHARTING: DELETED IAP AND ADDED SPECIAL IAP.

INITIATED BY: DATE: ORGANIZATION: NAME:
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A422 NAME: RICHARD BRUCE
APPROVED BY: DATE: 04/09/2026 OFFICE: AJV-A420 NAME: BEV L BORDY
SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: WAXAL **STATE:** MA **COUNTRY:** US **ICAO REGION CODE:** K6

LATITUDE/LONGITUDE: 420059.85N/0712126.30W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX RESTRICTIONS:
SPECIAL ONLY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
SPECIAL IAP	COPTER RNAV (GPS) M 139			1B9	MANSFIELD	MA (US)

REQUIRED CHARTING: SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/14/2026

REASON FOR REVISION:

1. FIX MOVED 1.18 NM NORTHWEST, FROM 420023.55N/0712004.89W TO 420059.85N/0712126.30W. FIX NAME WAXAL RETAINED FOR OPERATIONAL REQUIREMENTS.
2. FIX RESTRICTIONS: ADDED SPECIAL ONLY.
3. FIX USE: DELETED COPTER RNAV (GPS) Y RWY 14 AT 1B9.
4. FIX USE: ADDED SPECIAL IAP COPTER RNAV (GPS) M 139 AT 1B9.
5. REQUIRED CHARTING: DELETED IAP AND ADDED SPECIAL IAP.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A422 **NAME:** RICHARD BRUCE

APPROVED BY: **DATE:** 04/09/2026 **OFFICE:** AJV-A420 **NAME:** BEV L BORDY

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RADIO FIX AND HOLDING DATA RECORD

NAME: WOONS **STATE:** RI **COUNTRY:** US **ICAO REGION CODE:** K6

LATITUDE/LONGITUDE: 415702.07N/0713025.34W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	NORWICH	ORW	VOR/DME	L	056.92	042.92	32.37	32.37	2500	17500
2	PUTNAM	PUT	VOR/DME	H	105.00	091.00	15.09	15.09	2000	17500
3	BOSTON	BOS	VOR/DME	VH	239.60	223.60	33.60	33.60	2000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SW	BOS	VOR/DME	239.60	059.60	L	1	3000 10000	6 11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (44-000083)	415032.57N/0714011.29W	1069	2C

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC SEPARATION FROM PVD AIRSPACE

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

NORWICH (FAC 1) AND PUTNAM (FAC 2) USED TO ESTABLISH FIX COORDINATES.
SECTIONAL ADDED PER ATC REQUEST
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL IAP	COPTER RNAV (GPS) M 139			1B9	MANSFIELD	MA (US)
EN ROUTE	T224					(US)
EN ROUTE	V3	1, 2, 3	1			(US)
IAP	RNAV (GPS) RWY 4L			KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 32			KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 32			1B9	MANSFIELD	MA (US)
IAP	RNAV (GPS) Z RWY 14			1B9	MANSFIELD	MA (US)
IAP	RNAV (GPS) RWY 35			KOWD	NORWOOD	MA (US)
IAP	RNAV (GPS) RWY 16			KPVD	PROVIDENCE	RI (US)
STAR	WOONS	1, 2, 3	1	BOS	BOSTON	MA (US)
STAR	WOONS	1, 2, 3	1	1B9	MANSFIELD	MA (US)
STAR	WOONS	1, 2, 3	1	GHG	MARSHFIELD	MA (US)
STAR	WOONS	1, 2, 3	1	OWD	NORWOOD	MA (US)

REQUIRED CHARTING: SECTIONAL, STAR, IAP, AREA, EN ROUTE LOW, SPECIAL IAP, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 **DATE OF REVISION:** 05/14/2026

REASON FOR REVISION:

1. AIRSPACE DOCKET: DELETED 21-ANE-5.
2. FIX USE: ADDED SPECIAL IAP COPTER RNAV (GPS) M 139 AT 1B9.
3. FIX USE: DELETED IAP COPTER RNAV (GPS) Y RWY 14 AT 1B9.
4. FIX USE: STAR WOONS, ALL ENTRIES, ADDED FAC 3.
5. REQUIRED CHARTING: ADDED SPECIAL IAP.

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RADIO FIX AND HOLDING DATA RECORD

NAME: ZODED STATE: MA COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 420243.50N/0711730.49W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

FIX RESTRICTIONS:
SPECIAL ONLY

HOLDING: HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:												
PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NW		WP	318.56	138.56	R		4	1700	3000	4	4

CONTROLLING OBSTRUCTIONS:			COORDINATES		ELEVATION	ACCURACY CODE
PAT	AIRSPEED	OBSTRUCTION				
1	200	AAO	420154.00N/0712415.00W		683	4B

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN(S).

REMARKS:
1000 AIRSPACE ADJUSTMENT APPLIED IN HOLDING.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:							STATE
USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY		
SPECIAL IAP	COPTER RNAV (GPS) M 139		1	1B9	MANSFIELD	MA (US)	

REQUIRED CHARTING: SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 05/14/2026

REASON FOR REVISION:
1. FIX MOVED 2181.70 FEET SOUTHEAST, FROM 420255.24N/0711754.74W TO 420243.50N/0711730.49W.
2. FIX RESTRICTIONS: ADDED SPECIAL ONLY.
3. HOLDING: ADDED PAT 1 AND ASSOCIATED DATA.
4. FIX USE: DELETED COPTER RNAV (GPS) Y RWY 14 AT 1B9.
5. FIX USE: ADDED SPECIAL IAP COPTER RNAV (GPS) M 139 AT 1B9.
6. REQUIRED CHARTING: DELETED IAP AND ADDED SPECIAL IAP.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A422	NAME: RICHARD BRUCE
APPROVED BY:	DATE: 04/09/2026	OFFICE: AJV-A420	NAME: BEV L BORDY
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