

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE CONCURRENT
COORDINATED WITH: ATA <input checked="" type="checkbox"/> AAT <input type="checkbox"/> ALPA <input checked="" type="checkbox"/> APA <input type="checkbox"/> AOPA <input checked="" type="checkbox"/> NBAA <input checked="" type="checkbox"/> OTHER (specify) <input checked="" type="checkbox"/> ZBW, BOS APP CON, BED ATCT, BED AMGR		
FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
DAVID SAUER	AJV-352	01/05/2012
APPROVED BY		
NAME:	FIFO	DATE:
DARRYEL ADAMS	AJV-352	
CHANGES:		
<ol style="list-style-type: none"> 1. RENAMED PROCEDURE FROM "RNAV (GPS) RWY 11" TO "RNAV (GPS) Z RWY 11". 2. LOWERED LPV DA/HAT FROM 479/346 TO DA/HATH 382/250 AND VISIBILITY FROM RVR 5000 TO RVR 4000. 3. LOWERED LNAV/VNAV DA/HAT FROM 576/443 TO DA/HATH 474/342 AND VISIBILITY FROM RVR 5000 TO RVR 4000. 4. CHANGED LNAV HAT 527 TO HATH 528, CHANGED VISIBILITY FROM CAT A-C RVR 5000 AND CAT D RVR 6000 TO CAT A-B RVR 2400 AND CAT C-D RVR 5500. 5. RAISED CIRC MDA/HAA CAT A-B 680/547, CAT C 700/567, AND CAT D 780/647 TO CAT A-C 720/588, CAT D 780/648. 6. MOVED FINAL SDF SUVVO FROM 1.9 TO 2.2 MILES FROM THLD, CHANGED ALTITUDE FROM 780 TO 880. 7. LOWERED PFAF/FAF ALTITUDE FROM 1900 TO 1800, INTERMEDIATE LENGTH INCREASED FROM 6 TO 6.24 NM, RENAMED FAF FROM TAYUB TO JOPVU. 8. CHANGED INDICATION IN PROFILE VIEW 34:1 IS NOT CLEAR TO CLEAR. 9. CHANGED MISSED APPROACH FROM "CLIMB TO 2000 DIRECT JISMI AND LEFT TURN VIA 004 TRACK TO MHT VOR/DME AND HOLD" TO "CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 2000 DIRECT ZIMOT AND HOLD". 10. DELETED CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA AT NIGHT. 11. ADDED FEEDER FROM BRONC TO LOBBY AND IAF LOBBY TO ZELKA. 12. DELETED FEEDER FROM DREEM TO WANLA. 13. CHANGED CHART NOTE LNAV/VNAV NA TEMPERATURES FROM -15C/5F AND 48C/119F TO -16C/2F AND 43C/109F. SEE 8260-10		
REASONS:		
<ol style="list-style-type: none"> 1. ADDED RWY 11 RNP PROCEDURE AND ATC REQUEST. 2. IAW 8260.54A LPV CRITERIA, SEVERAL OBSTACLES REMOVED BY AIRPORT, VISIBILITY IAW 8260.3B VOL 1, CHAP 3. 3. IAW 8260.54A LNAV/VNAV CRITERIA, SEVERAL OBSTACLES REMOVED BY AIRPORT, VISIBILITY IAW 8260.3B VOL 1, CHAP 3. 4. NEW SURVEY AND IAW 8260.3B VOL 1, CHAP 3. 5. NEW SURVEY. 6. ADDED AAO IAW 8260.19D PARA 274 WHICH DID NOT ALLOW DESCENT DOWN TO OLD SDF ALTITUDE. 7. 8260.54A PFAF FORMULA 2-16B MOVED PFAF OUTWARDS WHICH REDUCED INTERMEDIATE SEGMENT LENGTH LESS THAN 6 NM, LOWERED ALTITUDE TO MAINTAIN AT LEAST 6NM, NAME PER ATC REQUEST. 8. AIRPORT REMOVED ALL 34:1 PENETRATIONS. 9. ATC REQUESTED CLEARANCE LIMIT ZIMOT, AND CONCURRED WITH CLIMB TO 1000 WHICH IS REQUIRED FOR LNAV MISSED. 10. 34:1 PENETRATIONS ELIMINATED. 11. ATC REQUEST. 12. FIX DREEM NOT PART OF ENROUTE STRUCTURE, ONLY ACCESSED BY DREEM ARRIVAL WHICH ALREADY HAS SEGMENT FROM DREEM TO WANLA. 13. USED CALCULATED ACT, NOT STANDARD DEVIATION IAW MEMO DATED 9/24/10, DETERMINING AVERAGE COLD TEMPERATURE. 14. IAW 8260.19D PARA 854 AND 8260.3B VOL 1, CHAP 3. SEE 8260-10		

QUALITY
 1
 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ZELKA (IF/IAF)	JOPVU (FB)	112.96 / 6.24	1800
JOPVU (FAF)	SUVVO/2.20 NM TO RW11 (FB)	113.05 / 2.88	
SUVVO/2.20 NM TO RW11	RW11 (MAP) (FO)	113.10 / 2.20	
RW11 (MAP)	1000 MSL	113.10	1000
1000 MSL	ZIMOT (FO)		2000

NOTES, (CONT.):

ALL DA 49 FEET AND ALL MDA 60 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500, INCREASE LNAV AND CIRCLING CATS C AND D VISIBILITY 1/4 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WITH BOSTON ALTIMETER SETTING.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MHT VOR/DME AIRWAY RADIALS 253 CW 291.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WITCH ON V3 SOUTH BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRONC ON V431 WESTBOUND.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.



CITY AND STATE BEDFORD, MA	ELEVATION: 132	THRE: 132	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 11, AMDT 1	SUP: RNAV (GPS) RWY 11
	AIRPORT NAME: LAURENCE G HANSCOM FLD				AMDT: ORIG
					DATED: 05/10/2007

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COORDINATED WITH:						
ATA <input type="checkbox"/>	AAT <input type="checkbox"/>	ALPA <input type="checkbox"/>	APA <input type="checkbox"/>	AOPA <input type="checkbox"/>	NBAA <input type="checkbox"/>	OTHER (specify) <input type="checkbox"/> _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:

APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:
CHANGES CONT.
 14. CHANGED BACK UP ALTIMETER NOTE FROM "IF...ALL DAS/MDAS 60 FEET" TO "WHEN...ALL DA 49 FEET AND ALL MDA 60 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500, INCREASE LNAV AND CIRCLING CATS C AND D VISIBILITY 1/4 MILE".
 15. ADDED VDP AT 1.45 MILES FROM RW11.
 16. CHANGED NOTE "BARO-VNAV NA WHEN USING BOSTON ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WITH BOSTON ALTIMETER SETTING".
 17. CHANGED PLANVIEW NOTE "PROCEDURE NA FOR ARRIVALS AT MHT VOR/DME VIA V106 EASTBOUND" TO "PROCEDURE NA FOR ARRIVAL ON MHT VOR/DME AIRWAY RADIALS 253 CW 291".
 18. ADDED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WITCH ON V3 SOUTH BOUND.
 19. ADDED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRONC ON V431 WESTBOUND.
 20. ADDED CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.

REASONS:
REASONS CONT.
 15. AIRPORT REMOVED 20:1 PENETRATIONS.
 16. VDP NOW AUTHORIZED.
 17. WORDING IAW 8260.19D PARA 805 TO RESTRICT TURNS GREATER THAN 90 DEGREES.
 18. IAW 8260.19D PARA 805 TO RESTRICT TURNS GREATER THAN 90 DEGREES.
 19. IAW 8260.19D PARA 805 TO RESTRICT TURNS GREATER THAN 90 DEGREES.
 20. LPV VISIBILITY INCREASED ALREADY DUE TO OFZ PENETRATION.

08/15/2012: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/10/2012.
 1. CHANGED PROCEDURE NA FOR ARRIVAL ON MHT VORTAC TO MHT VOR/DME.

PDF EDITS:
 1. 8260-10, TERMINAL ROUTES (CONT.): ADDED "(FAF)" NEXT TO JOPVU, DELETED "880'" ALTITUDE.
 2. 8260-10, CHANGES CONT: REFORMATTED CHANGES 14-20 FOR READABILITY.
 3. 8260-10, ARINC: DELETED "020" NEXT TO HM IN COLUMNS 45-47.
 4. 8260-10, FLIGHT INSPECTION SUMMARY: DELETED "2.0" FOR MISSED APPROACH RNP.

EFFECTIVE CONCURRENT WITH: KBED ILS OR LOC RWY 11, AMDT 26.



**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBED
RUNWAY	RW11
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W11A
LTP/FTP LATITUDE	422818.5650N
LTP/FTP LONGITUDE	0711801.2345W
LTP/FTP ELLIPSOIDAL HEIGHT	+00124
FPAP LATITUDE	422807.4900N
FPAP LONGITUDE	0711601.7700W
THRESHOLD CROSSING HEIGHT (TCH)	00050.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 16A29590

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00402
FPAP ORTHOMETRIC HEIGHT	+00402

Handwritten initials and date: JMT/2007

CITY AND STATE BEDFORD, MA	ELEVATION: 132 THRE: 132	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 11, AMDT 1	SUP: RNAV (GPS) RWY 11
	AIRPORT NAME: LAURENCE G HANSCOM FLD			AMDT: ORIG
				DATED: 05/10/2007

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FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:
CHANGES:		
REASONS:		

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FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:
CHANGES:		
REASONS:		

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FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:
CHANGES:		
REASONS:		

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BRONC	BRONC	010		IF		FB					
	BRONC	LOBBY	020	IAF	TF		FB	2.0	113.2 (097.2T)	005.1	AA 02300	
	BRONC	ZELKA	030		TF		FB	1.0	118.7 (102.7T)	002.6	AA 01900	
	MHT	MHT	010		IF		FB					
	MHT	HIDRI	020	IAF	TF		FB	2.0	219.6 (203.6T)	018.8	AA 02000	
	MHT	ZELKA	030		TF		FB	1.0	203.0 (187.0T)	005.3	AA 01900	
	WANLA	WANLA	010	IAF	IF		FB					
	WANLA	ZELKA	020		TF		FB	1.0	062.5 (046.5T)	006.6	AA 01900	
	WITCH	WITCH	010		IF		FB					
	WITCH	LWM	020		TF		FB	2.0	305.9 (289.9T)	010.1	AA 02000	
	WITCH	HIDRI	030	IAF	TF		FB	2.0	260.3 (244.3T)	021.8	AA 02000	
	WITCH	ZELKA	040		TF		FB	1.0	203.0 (187.0T)	005.3	AA 01900	
	ZELKA	ZELKA	010	IAF	HF	L	FO		113.0 (097.0T)	004.0	AA 01900	
		ZELKA	010	FACF	IF		FB				AA 01900	
		JOPVU	020	FAF	TF		FB	0.5	113.0 (097.0T)	006.2	AA 01800	
		SUVVO	021	SDF	TF		FB	0.3	113.1 (097.1T)	002.9	AA 00880	GS 00883
		RW11	030	MAP	TF		FO	0.3	113.1 (097.1T)	002.2	AT 00182	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		113.1 (097.1T)		AA 01000	
	ZIMOT	050		DF	L	FO				AA 02000	
	ZIMOT	060		HM	L	FO		224.0 (208.0T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	LWM	N424425.50	W0710541.43	N4244.425	W07105.691
	MHT	N425206.70	W0712210.31	N4252.112	W07122.172
	BRONC	N423053.93	W0714321.61	N4230.899	W07143.360
	HIDRI	N423454.68	W0713220.60	N4234.911	W07132.343
	JOPVU	N422856.21	W0712449.96	N4228.937	W07124.833
	LOBBY	N423015.53	W0713634.04	N4230.259	W07136.567
	SUVVO	N422834.92	W0712058.23	N4228.582	W07120.971
	WANLA	N422509.39	W0713940.53	N4225.157	W07139.676
	WITCH	N424059.84	W0705246.34	N4240.997	W07052.772
	ZELKA	N422941.90	W0713312.27	N4229.698	W07133.205
	ZIMOT	N423747.84	W0711027.33	N4237.797	W07110.456
	RW11	N422818.57	W0711801.23	N4228.310	W07118.021

RUNWAY DATA	THRESHOLD	TCH
RWY	ELEVATION	

CITY AND STATE BEDFORD, MA	ELEVATION: 132 THRE: 132	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 11, AMDT 1	SUP: RNAV (GPS) RWY 11
	AIRPORT NAME: LAURENCE G HANSCOM FLD			AMDT: ORIG
				DATED: 05/10/2007

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FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	NFPG	DATE:

APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.33

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RW11 00132 50

CITY AND STATE
BEDFORD, MA

ELEVATION: **132** **THRE: 132**
AIRPORT NAME:
LAURENCE G HANSCOM FLD

FACILITY IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) Z RWY 11, AMDT 1

SUP: **RNAV (GPS) RWY 11**

AMDT: **ORIG**

DATED: **05/10/2007**

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FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:
CHANGES:		
REASONS:		

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.			
FEEDER	WITCH	LWM VOR/DME	1. TOWER (25-000052)	424622.00N/0710601.00W	869 (5D)	1000	AT131	2000			
			2. TERRAIN	424227.00N/0710054.00W	348 (300)		AS1500	1800			
FEEDER: STEPDOWN	LWM VOR/DME	HIDRI	1. TOWER (25-000052)	424622.00N/0710601.00W	869 (5D)	1000		1900			
			3. TERRAIN	423642.00N/0713327.00W	525 (500)		AS1500	2000			
FEEDER	MHT VOR/DME	HIDRI	4. AAO	423715.00N/0713318.00W	732 (4E)	1000		1800			
			5. TERRAIN	421715.00N/0713318.00W	532 (500)		AS1500	2000			
FEEDER	BRONC	LOBBY	6. AAO	422909.00N/0714442.00W	857 (4E)	1000	AT443	2300			
			7. TERRAIN	423212.00N/0714242.00W	555 (600)		AS1500	2100			
INITIAL	HIDRI	ZELKA	8. AAO	423018.00N/0713330.00W	850 (4E)	1000		1900			
			9. TERRAIN	423018.00N/0713330.00W	650 (700)		AS1000	1700			
INITIAL	LOBBY	ZELKA	8. AAO	423018.00N/0713330.00W	850 (4E)	1000		1900			
			9. TERRAIN	423018.00N/0713330.00W	650 (700)		AS1000	1700			
INITIAL	WANLA	ZELKA	10. AAO	422709.00N/0713642.00W	889 (4E)	1000		1900			
			11. TERRAIN	422709.00N/0713642.00W	689 (700)		AS1000	1700			
2. HOLD-IN-LIEU-OF-PT	ZELKA	P-4	10. AAO	422709.00N/0713642.00W	889 (4E)	1000		1900			
			11. TERRAIN	422709.00N/0713642.00W	689 (700)		AS1000	1700			
3. MISSED APPROACH	MAP: DA / DA / RW11		ZIMOT				ASC	2000			
	ELEV: 195/313/560		17. TOWER (25-000072)	422719.64N/0711045.93W	669 (1A)	1000		1700			
			18. TERRAIN	422718.00N/0711042.00W	375 (400)		AS1500	1900			
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.									
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	588	19. TWR (KBEDT2153)	422724.08N/0711559.43W	414 (1B)	300		720
CATEGORY B	1.5 NM		450		588	19. TWR (KBEDT2153)	422724.08N/0711559.43W	414 (1B)	300		720
CATEGORY C	1.7 NM		450		588	20. TREE (KBEDT0802)	422613.88N/0711827.31W	416 (1A)	300		720
CATEGORY D	2.3 NM		550		648	21. TANK (25-000535)	422644.29N/0711439.89W	463 (1A)	300		780
CATEGORY E	4.5 NM		550								
5. MINIMUM SAFE ALTITUDES				PRIMARY NAVAID: RW11							
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A		
360-360	AAO	288/ 26.1	2215 (4E)	3300							
CITY AND STATE		ELEVATION: 132		FACILITY		PROCEDURE AND AMENDMENT NO:			REGION		
BEDFORD, MA		AIRPORT NAME: LAURENCE G HANSCOM FLD		RNAV		RNAV (GPS) Z RWY 11, AMDT 1			ANE		

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. KBED AND KBOS ASOS ON SERVICE A VGSI DATA: 3.00/67 SEE ATTACHED AIRSPACE LETTER. RASS PRESSURE PATTERNS SAME KBED 132.0 KBOS 20.0 RA=48.2 LPV SLOPE: 34:1 LNAV/VNAV SLOPE: 23.522:1 AIRPORT ISA: 14.74 ACT: -16 AVERAGE COLD TEMPERATURE BASED ON 4 YEAR HISTORY (2006-2009). INITIAL SEGMENT LEGTH BETWEEN HIDRI AND ZELKA MANUALLY EVALUATED USING PBN CALCULATOR FORMULA B AND 25 DEGREE BANK ANGLE. ATC WAS NOT INTERESTED IN RAISING THE MINIMUM ALTITUDE AT ZELKA. FEEDER FROM BRONC TO IAF LOBBY NOT PROCEDURALLY SEPARATED FROM R-4102A/B, PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY REQUIRED. OBS #12 TERRAIN FROM IAF WANLA SEGMENT. WANLA TRANSITION TIES TO DREEM (RNAV) STAR. 135 SIGN (KBEDT1201) 422821.27N/0711800.95W PENETRATES OFZ, FOUND FROM RNAV IPDS EVAL. NO VISUAL PENETRATIONS.
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING				
BOS APP CON BED TOWER ZBW ARTCC			N W S	OTHER: ASOS		SOURCE: KBED / KBOS				
						DISTANCE: 0 / 14.10				
			F A A	HOURS REMOTE OPERATION:			24 / BACKUP			
SATISFACTORY ON:			A / C	LOCATION: KBED			ADJUSTMENT: 0 / 49			
X	V H F	X	U H F	H F						
4. MONITOR STATUS	PRIMARY NAVAID:									
	MONITOR POINT:									
	HRS OPTN:	CAT 1								
		CAT 3								
5. APPROACH & RUNWAY LIGHTING	ALS									
	(S) SALS									
	X	MALSR 11 (PCL), 29 (PCL)								
	X	HIRL 11 (PCL), 29 (PCL)								
	X	MIRL 05 (PCL), 23 (PCL)								
	X	REIL 05, 23								
	TDZ									
	C/LINE									
X	OTHER (SPECIFY) VASI-4R 23 PAPI-4L 11, 29 VASI-4L 05									
6. RUNWAY MARKINGS		BASIC								
		ALL WEATHER		PIR-G 11, 29						
		INSTRUMENT		NPI-G 05, 23						
7. RUNWAY VISUAL RANGE		APPROACH 11								
		MIDFIELD								
		ROLL OUT								
8. GLIDE PATH		GP ANGLE: 3.00			ELEV RWY THRESHOLD: 132.0					
		DISTANCE FROM RWY:			ELEV GP ANTENNA:					
		THRESHOLD CROSSING HEIGHT: 50.3								
9. FINAL APPROACH COURSE AIMING		X	RUNWAY THRESHOLD			FT. FROM THRESHOLD				
		X	ON CENTERLINE			FT. FROM CENTERLINE				
10. WAIVERS: NONE										
PART D - PREPARED BY: DAVID SAUER					DATE: 01/05/2012					
TITLE: AERONAUTICAL INFORMATION SPECIALIST					OFFICE: AJV-352					



PART B - SUPPLEMENTAL DATA										PART C - REMARKS:
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE				3. ALTIMETER SETTING			
SATISFACTORY ON:			N W S		OTHER:		SOURCE:			
			F A A				DISTANCE:			
			A / C				HOURS REMOTE OPERATION:			
V H F	U H F	H F	LOCATION:				ADJUSTMENT:			
4. MONITOR STATUS	PRIMARY NAVAID:									
	MONITOR POINT:									
	HRS OPTN:	CAT 1								
			CAT 3							
5. APPROACH & RUNWAY LIGHTING	ALS									
	(S) SALS									
	MALS									
	HIRL									
	MIRL									
	REIL									
	TDZ									
	C/LINE									
OTHER (SPECIFY)										
6. RUNWAY MARKINGS		BASIC								
		ALL WEATHER								
		INSTRUMENT								
7. RUNWAY VISUAL RANGE		APPROACH								
		MIDFIELD								
		ROLL OUT								
8. GLIDE PATH		GP ANGLE:				ELEV RWY THRESHOLD:				
		DISTANCE FROM RWY:				ELEV GP ANTENNA:				
		THRESHOLD CROSSING HEIGHT:								
9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD				FT. FROM THRESHOLD				
		ON CENTERLINE				FT. FROM CENTERLINE				
10. WAIVERS:										
PART D - PREPARED BY:						DATE:				
TITLE:						OFFICE:				

RADIO FIX AND HOLDING DATA RECORD

NAME: BRONC

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423053.93N/0714321.61W

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 NM	FAC FEET	MRA	MAA
1	GARDNER	GDM	VOR/DME	L	110.99	096.99	15.00	15.00		3500	17500
2	MANCHESTER	MHT	VOR/DME	L	231.50	216.50	26.34	26.34		3500	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

MANCHESTER (FAC 2) AND GARDNER (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V431	1, 2				MA (US)
IAP	ILS OR LOC RWY 11	1, 2		KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 11			KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 11			KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) RWY 32			KORE	ORANGE	MA (US)
STAR	GARDNER	1, 2		KBOS	BOSTON	MA (US)
STAR	QUABN (RNAV)			KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 09/20/2012

REASON FOR REVISION:

AMENDED FAC 1 MAG BRG FROM 111.00 TO 110.99.

DEVELOPED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZBW
 ATC FACILITY: BOS APP CON
 OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: HIDRI

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423454.68N/0713220.60W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:
USE TYPE
IAP
IAP

USE TITLE
RNAV (GPS) Z RWY 11
RNAV (RNP) Y RWY 11

FAC	PAT	AIRPORT IDENT	CITY
		KBED	BEDFORD
		KBED	BEDFORD

STATE
MA (US)
MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/20/2012

REASON FOR REVISION:

1. MOVED FIX 1519.70 FT NORTH.
2. DELETED FAC 1, ZELKA.

DEVELOPED BY:

DATE: 01/06/2012

OFFICE: AJV-352

NAME: DAVID SAUER

APPROVED BY:

DATE:

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BOS APP CON, BED ATCT
OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: JOPVU

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422856.21N/0712449.96W

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	FAC FEET	MRA	MAA
1	BEDFORD	I-BED	LOC		293.13	277.13	6.52	6.51	39551	1800	4600
2	MANCHESTER	MHT	VOR/DME	L	199.86	184.86		23.25		1800	4600

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-BED DME COORDINATES: 422805.50N/0711606.17W
 COORDINATES ESTABLISHED USING 8260.54A, FORMULA 2-16B.
 NAME CHANGED FROM TAYUB TO JOPVU.

FIX USE:

FIX USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 11	1, 2		KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 11			KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 11			KBED	BEDFORD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/20/2012

REASON FOR REVISION:

1. MOVED FIX 1391.44 FT EAST.
2. DELETED FAC 3, KBED R11.
3. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
4. ADDED FAC 1 DIST FROM FAC IN FEET.
5. CHANGED FAC 1 AND 2 MRA FROM 1900 TO 1800.
6. CHANGED FAC 1 DME FROM 6.74 TO 6.52.
7. CHANGED FAC 2 TRUE BRG FROM 185.42 TO 184.86.
8. DELETED REMARK, RNAV (GPS) RWY 11 PFAF COORDINATES BASED ON ILS PFAF.
9. ADDED REMARK, COORDINATES ESTABLISHED USING 8260.54A, FORMULA 2-16B.
10. CHANGED I-BED COORDINATES FROM 422804.76N/0711606.58W TO 422805.50N/0711606.17W.
11. NAME CHANGED FROM TAYUB TO JOPVU.
12. ADDED REMARK, NAME CHANGED FROM TAYUB TO JOPVU.

DEVELOPED BY: **DATE:** 01/09/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZBW
 ATC FACILITY: BOS APP CON, BED ATCT
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LAWRENCE VOR/DME

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 424425.50N/0710541.43W

TYPE:

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	FEET	MRA	MAA
1	LAWRENCE	LWM	VOR/DME	L							17500

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

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	NE	LWM	VOR/DME	056.61	236.61	R	1		2000	6000	4	13
2	NE		WP	056.61	236.61	R		4	2000	6000	4	14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (25-000052)	424622.00N/0710601.00W	869	5D
1	310	TOWER (25-000052)	424622.00N/0710601.00W	869	5D
2	200	TOWER (25-000052)	424622.00N/0710601.00W	869	5D
2	310	TOWER (25-000052)	424622.00N/0710601.00W	869	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC Z RWY 05	KLWM	LAWRENCE	MA (US)
1	VOR RWY 23 (ALT MISS)	KLWM	LAWRENCE	MA (US)
1	ILS OR LOC Y RWY 05	KLWM	LAWRENCE	MA (US)
1	NDB RWY 05	KLWM	LAWRENCE	MA (US)
2	RNAV (GPS) RWY 05	KLWM	LAWRENCE	MA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKER			KPSM	PORTSMOUTH	NH (US)
IAP	ILS OR LOC RWY 11			KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) RWY 23			KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 11			KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)
IAP	VOR RWY 23			KBED	BEDFORD	MA (US)
IAP	LOC RWY 16			KBVY	BEVERLY	MA (US)
IAP	VOR RWY 16			KBVY	BEVERLY	MA (US)
IAP	ILS OR LOC RWY 22L			KBOS	BOSTON	MA (US)
IAP	ILS RWY 15R			KBOS	BOSTON	MA (US)
IAP	ILS OR LOC Y RWY 05		1	KLWM	LAWRENCE	MA (US)
IAP	ILS OR LOC Z RWY 05		1	KLWM	LAWRENCE	MA (US)
IAP	NDB RWY 05		1	KLWM	LAWRENCE	MA (US)
IAP	RNAV (GPS) RWY 05		2	KLWM	LAWRENCE	MA (US)
IAP	VOR RWY 23 (ALT MISS)		1	KLWM	LAWRENCE	MA (US)
IAP	NDB-A			K6B6	STOW	MA (US)
IAP	ILS OR LOC RWY 06			KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 35			KMHT	MANCHESTER	NH (US)
IAP	ILS RWY 35 (CAT II)			KMHT	MANCHESTER	NH (US)
IAP	ILS RWY 35 (CAT III)			KMHT	MANCHESTER	NH (US)
IAP	RNAV (GPS) RWY 24			KMHT	MANCHESTER	NH (US)
IAP	VOR/DME OR GPS RWY 17			KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 14			KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 32			KASH	NASHUA	NH (US)
IAP	VOR RWY 32			KASH	NASHUA	NH (US)
IAP	ILS OR LOC RWY 16			KPSM	PORTSMOUTH	NH (US)
IAP	ILS OR LOC RWY 34			KPSM	PORTSMOUTH	NH (US)
IAP	VOR RWY 16			KPSM	PORTSMOUTH	NH (US)
IAP	VOR RWY 34			KPSM	PORTSMOUTH	NH (US)

REQUIRED CHARTING: SECTIONAL, DP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO



RECORD REVISION NUMBER: 10

DATE OF REVISION: 06/30/2011

REASON FOR REVISION:

UPDATE PATT1 COURSE AND TEMPLATES.
ADD HOLDING PATTERN 2.
UPDATE HOLDING OBSTRUCTION FOR CIH PATT 1, PATT2 AND CIH PATT2.
ADD CIH PATT 1 AND 2.
UPDATE FIX USE.

DEVELOPED BY: **DATE:** 01/05/2011 **OFFICE:** AVN-110 **NAME:** DARRYEL ADAMS (ALLAN WILL)

APPROVED BY: **DATE:** 05/11/2011 **OFFICE:** AVN-110 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZBW
 ATC FACILITY: BOS APP CON, KBED ATCT, KLWM ATCT
 OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: LOBBY

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423015.53N/0713634.04W

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 NM	FAC FEET	MRA	MAA
1	GARDNER	GDM	VOR/DME	L	110.99	096.99	20.06	20.06		2300	17500
2	MANCHESTER	MHT	VOR/DME	L	221.00	206.00		24.29		2300	17500

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

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	W	GDM	VORTAC	290.99	110.99	L	1-1 1/2	3500 17500	5 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (25-000400)	423026.00N/0714941.00W	1364	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 AIRSPACE PROTECTION

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

GARDNER (FAC 1) AND MANCHESTER (FAC 2) USED TO ESTABLISH FIX COORDINATES
 HOLDING PATTERN OVERLAYS R-4102A SURFACE UP TO BUT NOT INCLUDING 2000.
 HOLDING PATTERN PENETRATES R-4102B 3500 TO 3995
 BOSTON APP CON IS CONTROLLING AGENCY FOR R-4102A/B.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V431	1, 2	1			MA (US)
IAP	ILS OR LOC RWY 11	1, 2		KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) RWY 23			KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 11			KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 11			KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) RWY 32			KASH	NASHUA	NH (US)
STAR	GARDNER	1, 2		KBOS	BOSTON	MA (US)
STAR	QUABN (RNAV)			KBOS	BOSTON	MA (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 09/20/2012

REASON FOR REVISION:

1. AMENDED FAC 1 MAG BRG FROM 111.00 TO 110.99.
2. INCREASED FAC 1 AND FAC 2 MRA FROM 2000 TO 2300.
3. AMENDED PAT 1 HOLDING INBOUND CRS FROM 111.00 TO 110.99.

DEVELOPED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZBW
 ATC FACILITY: BOS APP CON
 OTHER:

QUALITY
CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: MANCHESTER VOR/DME STATE: NH COUNTRY: US

LATITUDE/LONGITUDE: 425206.70N/0712210.31W TYPE:

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	FAC FEET	MRA	MAA
1	MANCHESTER	MHT	VOR/DME	L							17500

FIX RESTRICTIONS:

SPECIAL COPTER RNAV-093, KBED, BEDFORD, MA
SPECIAL COPTER RNAV-066, KBED, BEDFORD, MA

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING DME	ALTITUDES MIN	ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	MHT	VOR/DME	157.00	337.00	L	1	-	2000	6000	4	5
2	NE	MHT	VOR/DME	066.00	246.00	R	1	-	2000	6000	4	12
3	NE	WP	WP	039.00	219.00	R		4	2000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (33-000046)	424901.00N/0711610.00W	885	5E
2	200	TOWER (33-000099)	425705.00N/0711605.00W	983	3C
2	310	200' AAO	430712.00N/0711154.00W	1181	4E
3	200	TOWER (33-000099)	425705.00N/0711605.00W	983	3C

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 6	KMHT	MANCHESTER	NH (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	HYLND (RNAV)			KBOS	BOSTON	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	CASCO			KPWM	PORTLAND	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKR			KPSM	PORTSMOUTH	NH (US)
EN ROUTE	V106					(US)
EN ROUTE	V141					(US)
EN ROUTE	V490					(US)
IAP	COPTER RNAV-066			KBED	BEDFORD	MA (US)
IAP	COPTER RNAV-093			KBED	BEDFORD	MA (US)
IAP	ILS OR LOC RWY 11		2	KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 11		3	KBED	BEDFORD	MA (US)
IAP	VOR RWY 23			KBED	BEDFORD	MA (US)
IAP	LOC RWY 16			KBVY	BEVERLY	MA (US)
IAP	RNAV (GPS) RWY 16			KBVY	BEVERLY	MA (US)
IAP	VOR RWY 16			KBVY	BEVERLY	MA (US)
IAP	ILS OR LOC RWY 33L			KBOS	BOSTON	MA (US)
IAP	ILS RWY 15R			KBOS	BOSTON	MA (US)
IAP	ILS RWY 33L (CAT II)			KBOS	BOSTON	MA (US)
IAP	ILS RWY 4R			KBOS	BOSTON	MA (US)
IAP	ILS RWY 4R (CAT II)			KBOS	BOSTON	MA (US)
IAP	ILS RWY 4R (CAT III)			KBOS	BOSTON	MA (US)
IAP	VOR/DME OR GPS-A			KBOS	BOSTON	MA (US)
IAP	VOR/DME RWY 33L			KBOS	BOSTON	MA (US)
IAP	NDB RWY 20			KFIT	FITCHBURG	MA (US)
IAP	NDB-A			KFIT	FITCHBURG	MA (US)

IAP	RNAV (GPS) RWY 20		KFIT	FITCHBURG	MA (US)
IAP	RNAV (GPS) RWY 32		KFIT	FITCHBURG	MA (US)
IAP	ILS OR LOC Y RWY 05		KLWM	LAWRENCE	MA (US)
IAP	ILS OR LOC Z RWY 05		KLWM	LAWRENCE	MA (US)
IAP	NDB RWY 05		KLWM	LAWRENCE	MA (US)
IAP	RNAV (GPS) RWY 05		KLWM	LAWRENCE	MA (US)
IAP	RNAV (GPS) RWY 23		KLWM	LAWRENCE	MA (US)
IAP	VOR RWY 23		KLWM	LAWRENCE	MA (US)
IAP	RNAV (GPS) RWY 21		K6B6	STOW	MA (US)
IAP	VOR/DME RWY 21		K6B6	STOW	MA (US)
IAP	ILS OR LOC RWY 7		KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 25		KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 7		KSFM	SANFORD	ME (US)
IAP	VOR RWY 7		KSFM	SANFORD	ME (US)
IAP	ILS RWY 35		KCON	CONCORD	NH (US)
IAP	RNAV (GPS) RWY 35		KCON	CONCORD	NH (US)
IAP	VOR-A		KCON	CONCORD	NH (US)
IAP	ILS OR LOC RWY 35		KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 6	2	KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC/DME RWY 17	1	KMHT	MANCHESTER	NH (US)
IAP	ILS RWY 35 (CAT II)		KMHT	MANCHESTER	NH (US)
IAP	ILS RWY 35 (CAT III)		KMHT	MANCHESTER	NH (US)
IAP	RNAV (GPS) Y RWY 17		KMHT	MANCHESTER	NH (US)
IAP	VOR RWY 35		KMHT	MANCHESTER	NH (US)
IAP	VOR/DME RWY 17	1	KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 14		KASH	NASHUA	NH (US)
IAP	NDB OR GPS RWY 14		KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 32		KASH	NASHUA	NH (US)
IAP	VOR OR GPS-A	2	KASH	NASHUA	NH (US)
IAP	VOR RWY 32		KASH	NASHUA	NH (US)
IAP	ILS OR LOC RWY 16		KPSM	PORTSMOUTH	NH (US)
IAP	ILS OR LOC RWY 34		KPSM	PORTSMOUTH	NH (US)
IAP	RNAV (GPS) RWY 16		KPSM	PORTSMOUTH	NH (US)
IAP	VOR RWY 16		KPSM	PORTSMOUTH	NH (US)
IAP	NDB RWY 33		KDAW	ROCHESTER	NH (US)
IAP	VOR/DME -A		KDAW	ROCHESTER	NH (US)
STAR	GARDNER		KBOS	BOSTON	MA (US)
STAR	POPPP		KMHT	MANCHESTER	NH (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 05/05/2011

REASON FOR REVISION:

1. FIX MOVED 3.86 FEET TO MATCH PENDING AVNIS DATA COORDINATES.
2. FIX USE UPDATED.

DEVELOPED BY: DATE: 11/23/2010 OFFICE: AVN-110 NAME: PETER GUIMOND

APPROVED BY: DATE: 03/28/2011 OFFICE: AVN-110 NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: EST
 ARTCC: ZBW
 ATC FACILITY: MHT APP CON
 OTHER:

QUALITY
 1
 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SUVVO

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422834.92N/0712058.23W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	BEDFORD	I-BED	LOC/DME		293.13	277.13	3.64	3.63		740	4600

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-BED DME COORDINATES: 422805.50N/0711606.17W
COORDINATES ESTABLISHED 2.20 NM FROM KBED RWY 11 THLD.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 11	1		KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 11			KBED	BEDFORD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/20/2012

REASON FOR REVISION:

1. MOVED FIX 1819.99 FT WEST.
2. DELETED FAC 2, KBED R11.
3. CHANGED DME COORDINATES FROM 422804.76N/0711606.58W TO 422805.50N/0711606.17W
4. CHANGED FAC 1 DME FROM 3.33 TO 3.64.
5. ADDED FAC 1 DIST FROM FAC IN NM.
6. CHANGED FAC 1 MRA FROM 620 TO 740.
7. ADDED REMARK, COORDINATES ESTABLISHED 2.20 NM FROM KBED RWY 11 THLD.

DEVELOPED BY: DATE: 01/06/2012 OFFICE: AJV-352 NAME: DAVID SAUER

APPROVED BY: DATE: OFFICE: AJV-352 NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: EST
 ARTCC: ZBW
 ATC FACILITY: BOS APP CON, BED ATCT
 OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: WANLA

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422509.39N/0713940.53W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Z RWY 11			KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 11			KBED	BEDFORD	MA (US)
STAR	DREEM (RNAV)			KBED	BEDFORD	MA (US)
STAR	DREEM (RNAV)			KBVY	BEVERLY	MA (US)
STAR	DREEM (RNAV)			KLWM	LAWRENCE	MA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/15/2011

REASON FOR REVISION:

1. DELETED FAC 1, ZELKA.
2. ADDED STAR TO REQUIRED CHARTING.
3. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/24/2011

OFFICE: AJV-352

NAME: DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 10/26/2011

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BOS APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WITCH

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 424059.84N/0705246.34W

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	FEET	MRA	MAA
1	PEASE	PSM	VOR/DME	L	201.00	185.00	24.16	24.16		2000	17500
2	MANCHESTER	MHT	VOR/DME	L	132.00	117.00		24.34		2000	17500
3	BOSTON	BOS	VOR/DME	H	029.99	013.99	20.14	20.14		2000	17500
4	LAWRENCE	LWM	VOR/DME	L	124.72	109.72		10.12		2000	17500

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

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	N	PSM	VORTAC	201.00	201.00	R	1-1 1/2		2000	6000	4	14
2	NE	BOS	VORTAC	029.99	209.99	R	1-1 1/2		2000	17500	4	21
3	S	WP	WP	201.00	021.00	L		4	3000	6000	5	14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	424218.00N/0705333.00W	499	4E
1	310	TOWER (25-000108)	424225.00N/0710052.00W	593	4D
2	200	AAO	424218.00N/0705333.00W	499	4E
2	310	TOWER (25-000108)	424225.00N/0710052.00W	593	4D
3	200	STACK (25-000204)	423136.00N/0705235.00W	512	2D
3	310	TOWER (25-000575)	423153.72N/0705910.41W	686	1A

REASON FOR NONSTANDARD HOLDING:

PAT 3 BOS APP CON

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	LOC RWY 16	KBVY	BEVERLY	MA (US)
2	LOC RWY 16 (ALT MISS)	KBVY	BEVERLY	MA (US)
3	RNAV (GPS) RWY 05	KLWM	LAWRENCE	MA (US)

REMARKS:

MANCHESTER (FAC 2) AND PEASE (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BETTE			KJFK	NEW YORK	NY (US)
DP	GREKI			KJFK	NEW YORK	NY (US)
DP	HAPIE			KJFK	NEW YORK	NY (US)
DP	MERIT			KJFK	NEW YORK	NY (US)
DP	SKORR (RNAV)			KJFK	NEW YORK	NY (US)
EN ROUTE	V3		1, 2, 3, 4			(US)
IAP	ILS OR LOC RWY 11		1, 4	KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) RWY 23			KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 11			KBED	BEDFORD	MA (US)
IAP	LOC RWY 16		1, 2	KBVY	BEVERLY	MA (US)
IAP	LOC RWY 16 (ALT MISS)		3, 4	KBVY	BEVERLY	MA (US)
IAP	VOR RWY 16		1, 2, 4	KBVY	BEVERLY	MA (US)
IAP	RNAV (GPS) RWY 05			KLWM	LAWRENCE	MA (US)
IAP	RNAV (GPS) RWY 23			KLWM	LAWRENCE	MA (US)

REQUIRED CHARTING: SECTIONAL, VFR TERMINAL AREA, DP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 09/20/2012

REASON FOR REVISION:

- ADDED REMARK, MANCHESTER (FAC 2) AND PEASE (FAC 1) USED TO ESTABLISH FIX COORDINATES.
- CHANGED REMARK, "PRECIPITOUS TERRAIN EVALUATION COMPLETE" TO "...COMPLETED".
- DELETED PAT 2, RENAMED PAT 3 AND 4 TO 2 AND 3.
- UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/09/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER
APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZBW
 ATC FACILITY: BOS APP CON
 OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ZELKA

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 422941.90N/0713312.27W

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		MRA	MAA
								NM	FEET		
1	BEDFORD	I-BED	LOC/DME		293.13	277.13	12.76	12.75		1900	4600
2	MANCHESTER	MHT	VOR/DME	L	215.02	200.02		23.84		1900	4600

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING DME	ALTITUDES MIN	ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	I-BED	LOC/DME	293.13	113.13	L	1		1900	6000	4	6
2	NW		WP	292.96	112.96	L		4	1900	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	422709.00N/0713642.00W	889	4E
2	200	AAO	422709.00N/0713604.00W	889	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-4102A/B.

REMARKS:

BEDFORD (FAC 1) AND MANCHESTER (FAC 2) USED TO ESTABLISH FIX COORDINATES
I-BED DME COORDINATES: 422805.50N/0711606.17W
HOLDING PATTERNS PENETRATE R-4102A & 4102B
BOSTON APP CON IS CONTROLLING AGENCY FOR R-4102A & R-4102B (SURFACE TO 3995)
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 11	1, 2	1	KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 11		2	KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 11			KBED	BEDFORD	MA (US)
STAR	DREEM (RNAV)			KBED	BEDFORD	MA (US)
STAR	DREEM (RNAV)			KBVY	BEVERLY	MA (US)
STAR	DREEM (RNAV)			KLWM	LAWRENCE	MA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/20/2012

REASON FOR REVISION:

1. CHANGED FAC 1 DME FROM 12.75 TO 12.76.
2. CHANGED REMARK FOR I-BED COORDINATES FROM 422804.76N/0711606.58W TO 422805.50N/0711606.17W.
3. ADDED HOLDING RESTRICTION: PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-4102A/B.
4. UPDATED FIX USE.

DEVELOPED BY: DATE: 01/25/2012 OFFICE: AJV-352 NAME: DAVID SAUER

APPROVED BY: DATE: OFFICE: AJV-352 NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BOS APP CON, BED ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ZIMOT

STATE: MA

COUNTRY: US

LATITUDE/LONGITUDE: 423747.84N/0711027.33W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	LAWRENCE	LWM	VOR/DME	L	222.97	207.97	7.50	7.50	2000	17500
2	BOSTON	BOS	VOR/DME	H	349.42	333.42		18.29	2000	17500

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 ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	NE	LWM	VOR/DME	222.97	222.97	L	1	2000 6000	4 6
2	NE		WP	043.97	223.97	L	4	2000 6000	4 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (25-000611)	423914.00N/0711300.00W	807	5D
2	200	TOWER (25-000611)	423914.00N/0711300.00W	807	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.
PAT 2 ATC REQUEST.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

LAWRENCE (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 11	1, 2	1	KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 11		2	KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 11		2	KBED	BEDFORD	MA (US)
IAP	VOR RWY 23	1, 2	1	KBED	BEDFORD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/20/2012

DEVELOPED BY: DATE: 01/25/2012 OFFICE: AJV-352 NAME: DAVID SAUER

APPROVED BY: DATE: OFFICE: AJV-352 NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BOS APP CON, BED ATCT
OTHER:

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **BEDFORD**

STATE: **MA**

AIRPORT NAME: **LAURENCE G HANSCOM FLD**

ID: **KBED**

PROCEDURE: **RNAV (GPS) Z RWY 11**

AMDT: **1**

DOCKET # :

(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.82**
(Enter THLD, FAF, ARP, FACILITY, as appropriate)

2. Width of **FINAL** segment at 1000' point **1.20**
(Enter appropriate segment , final, intermediate, etc.)

3. True Course of **FINAL** segment containing 1000' point **097.05**

4. High Terrain in **FINAL** segment containing 1000' point **374**

5. Distance from **THLD** to 1500' point **11.32**
(If 1500' point in PT maneuvering area or holding pattern note in remarks)

6. Width of **INTERMEDIATE** segment at 1500' point **4.00**

7. True Course of **INTERMEDIATE** segment containing 1500' point **096.96**

8. High Terrain in **INTERMEDIATE** segment containing 1500' point **644**

9. Threshold Coordinates (if straight-in) ... **422818.57N / 0711801.23W**

10. ARP Coordinates **422811.80N / 0711720.40W**

11. Runway Approach End and distance furthest from ARP.....RWY **29**

Distance **0.64** NM

12. FAF Coordinates **422856.21N / 0712449.96W**
(Click to Select)

REMARKS: Approach/Drawing attached. OTHER SEGMENTS WHICH USE 1000' AIRSPACE:
INITIAL ROUTE FROM HIDRI - ZELKA, WANLA - ZELKA, LOBBY - ZELKA; HOLDING PATTERN AT ZELKA.