Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 07/02/2011	Task #: 2011070223537001001	Request #: 20110702235370
Procedure: RNAV (GPS) RWY 27 ORIG		Airport ID: KBVY	Airport: BEVERLY MUNI		Reimbursable #:
City: BEVERLY	**ST:** MA	GPS #:		Estimated Chart Date: 03/07/2013	FICO #:
Fac ID:	**Fac. Type:** LPV		**Specialist:** ROSE BOONE		

LPV

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	06/22/2012	10/18/2012	CASIMIR TABAKA	
QA:	10/18/2012	10/18/2012	CASIMIR TABAKA	
Liaison:	10/18/2012		Spencer	

PJ

Procedure Comments:

Remark Type: INFORMATION

pkg 1 of 2

BEVERLY, MA BEVERLY MUNI (KBVY) RNAV (GPS) RWY 27, ORIG (LPV) ENROUTE-NO FC: 1.22.13 PUB: 3.7.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): ODMUE, ORIG; VOVCU, ORIG; (INFO ONLY) WAKBI, ORIG.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

BEVERLY, MASSACHUSETTS AL-5039 (FAA) FIG

RNAV (GPS) RWY 27

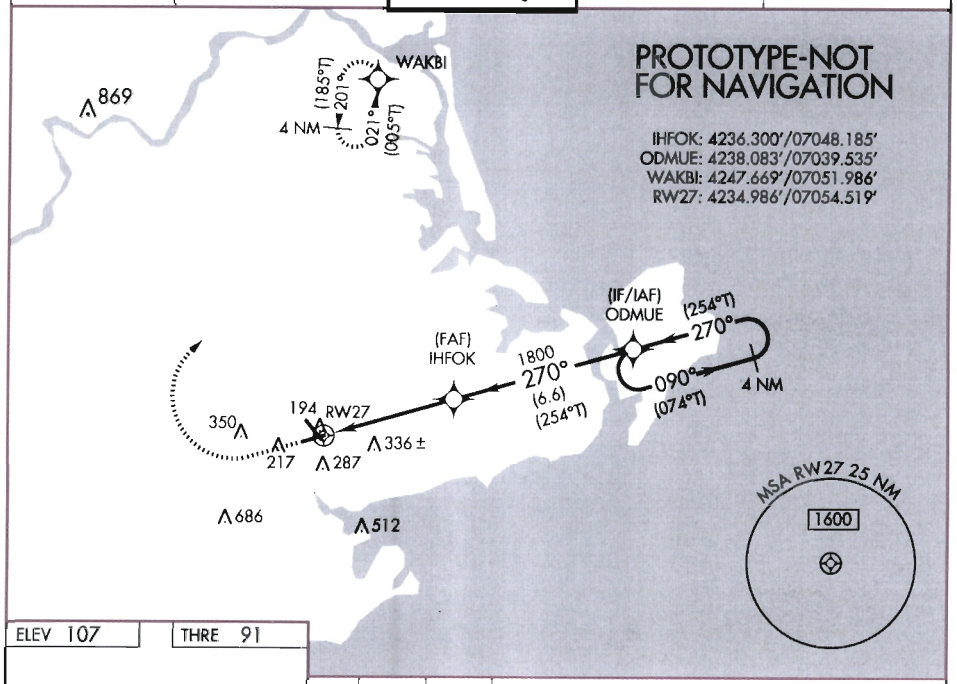
BEVERLY MUNI (BVY)

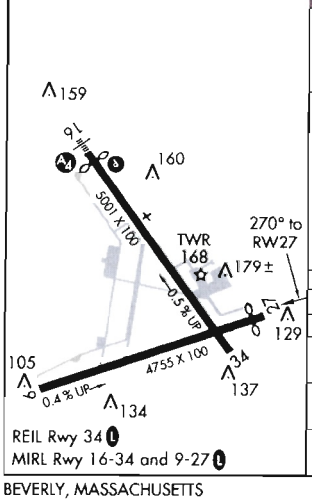
WAAS	APP CRS	Rwy Idg	4755
CH 99731	270°	THRE	91
W27A		Apt Elev	107

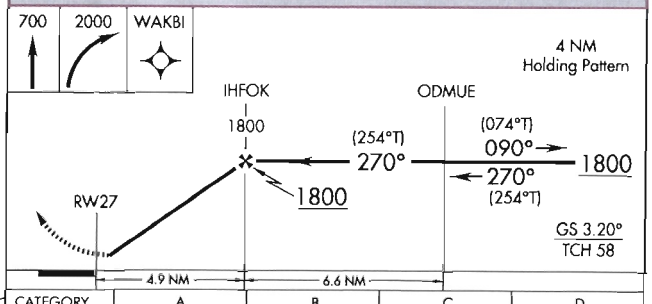
DME/DME RNP-0.3 NA. Radar required. Helicopter visibility reduction below 1SM not authorized. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°F (130°F). When local altimeter setting not received, use Lawrence Muni altimeter setting and increase all DA 34 feet and all MDA 40 feet; increase LPV and LNAV/VNAV all Cats, Circling Cat C and LNAV Cat C and D visibility ⅛ mile. Procedure NA at night.
BARO-VNAV NA when using Lawrence altimeter setting.

MISSED APPROACH: Climb to 700 then climbing right turn to 2000 direct WAKBI and hold.

ATIS	BOSTON APP CON	BEVERLY TOWER★	GND CON	UNICOM
119.2	124.4 279.6	125.2 (CTAF) L	121.6	122.95







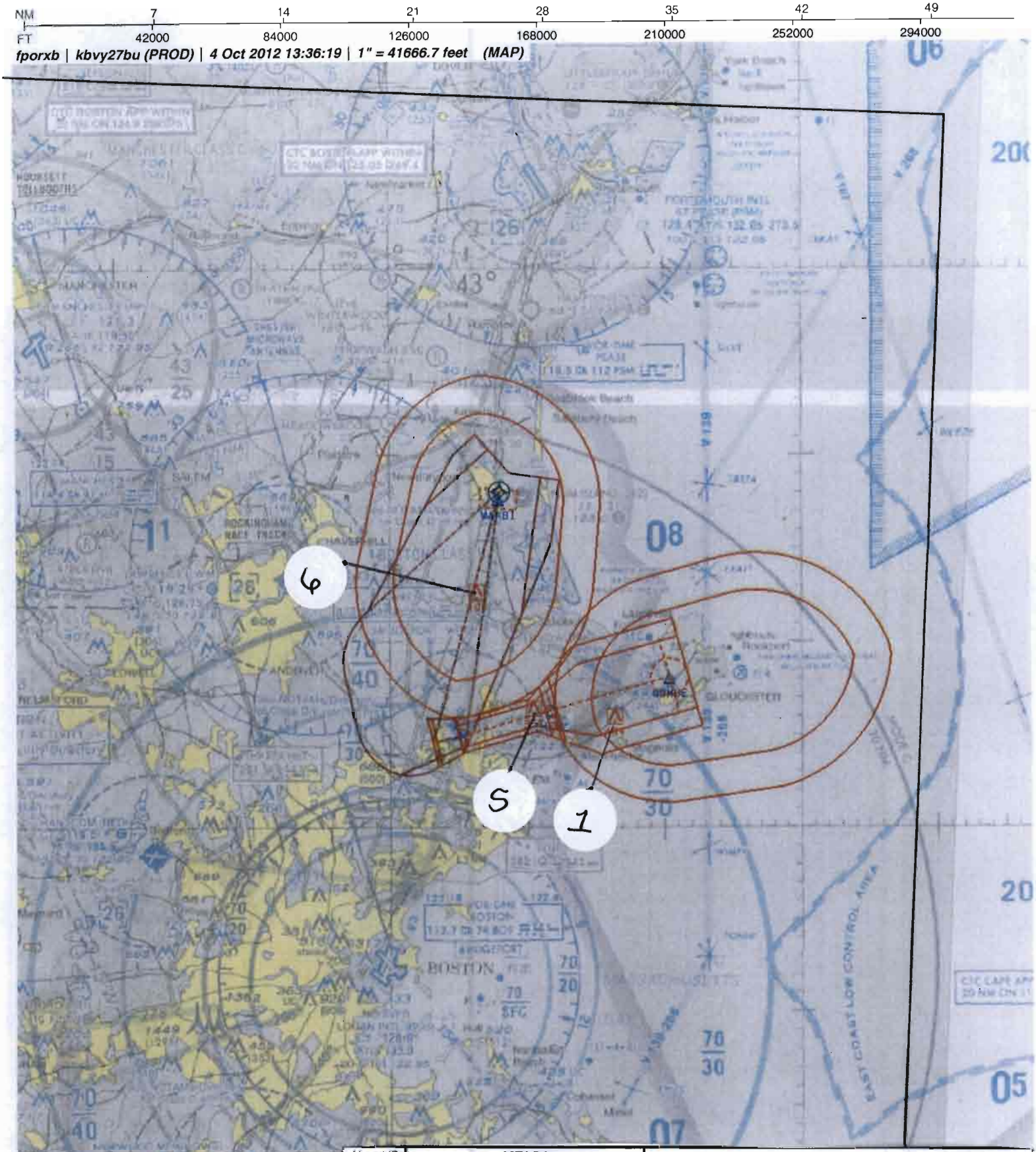
CATEGORY	A	B	C	D
LPV DA	441-1	350 (400-1)		NA
LNAV/VNAV DA	437-1	346 (400-1)		NA
LNAV MDA	620-1	529 (600-1)	620-1½	529 (600-1½)
CIRCLING	620-1	513 (600-1)	620-1½ 513 (600-1½)	700-2 593 (600-2)

BEVERLY, MASSACHUSETTS
Orig FIG

42°35'N - 70°55'W

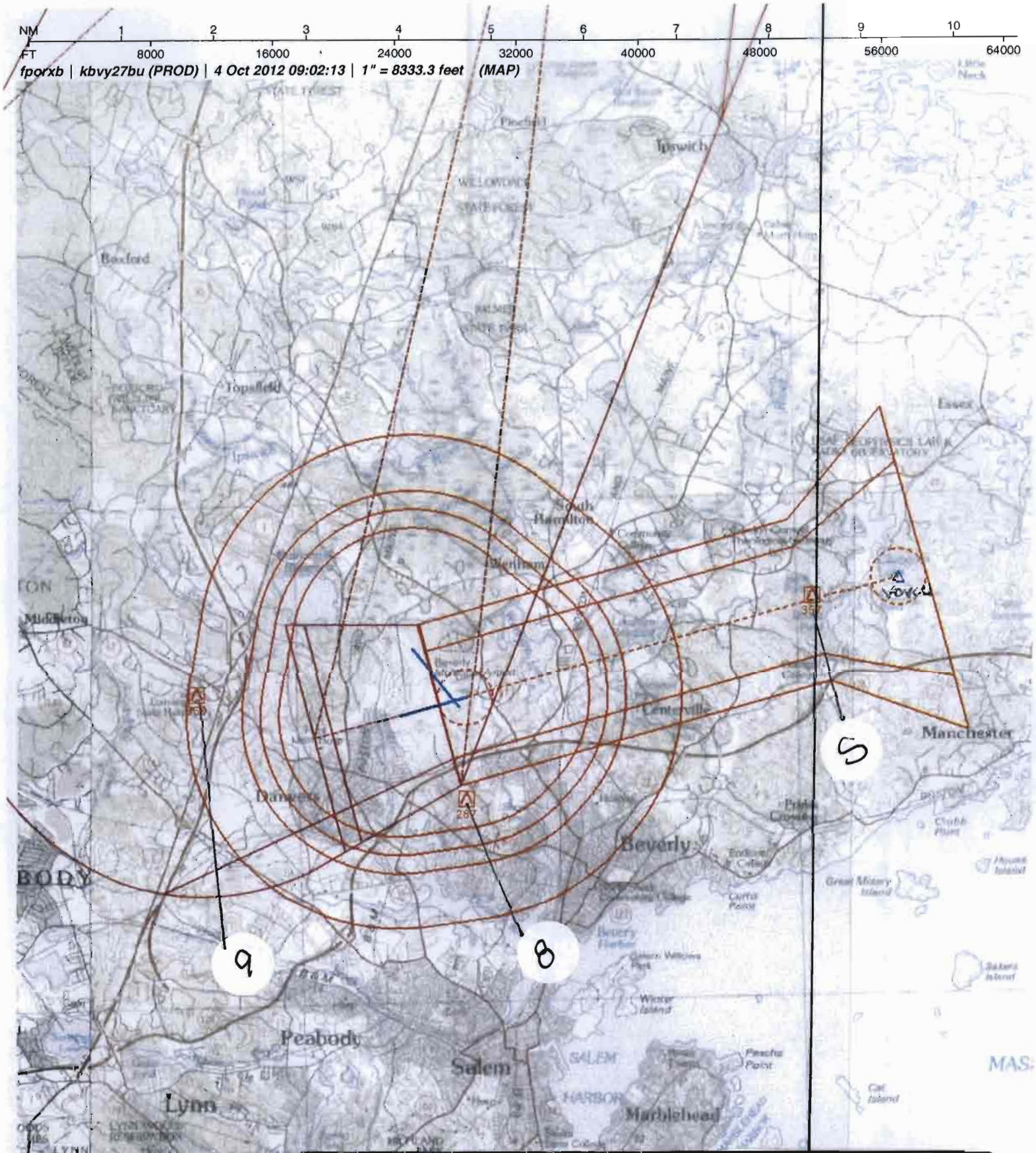
BEVERLY MUNI (BVY)

RNAV (GPS) RWY 27



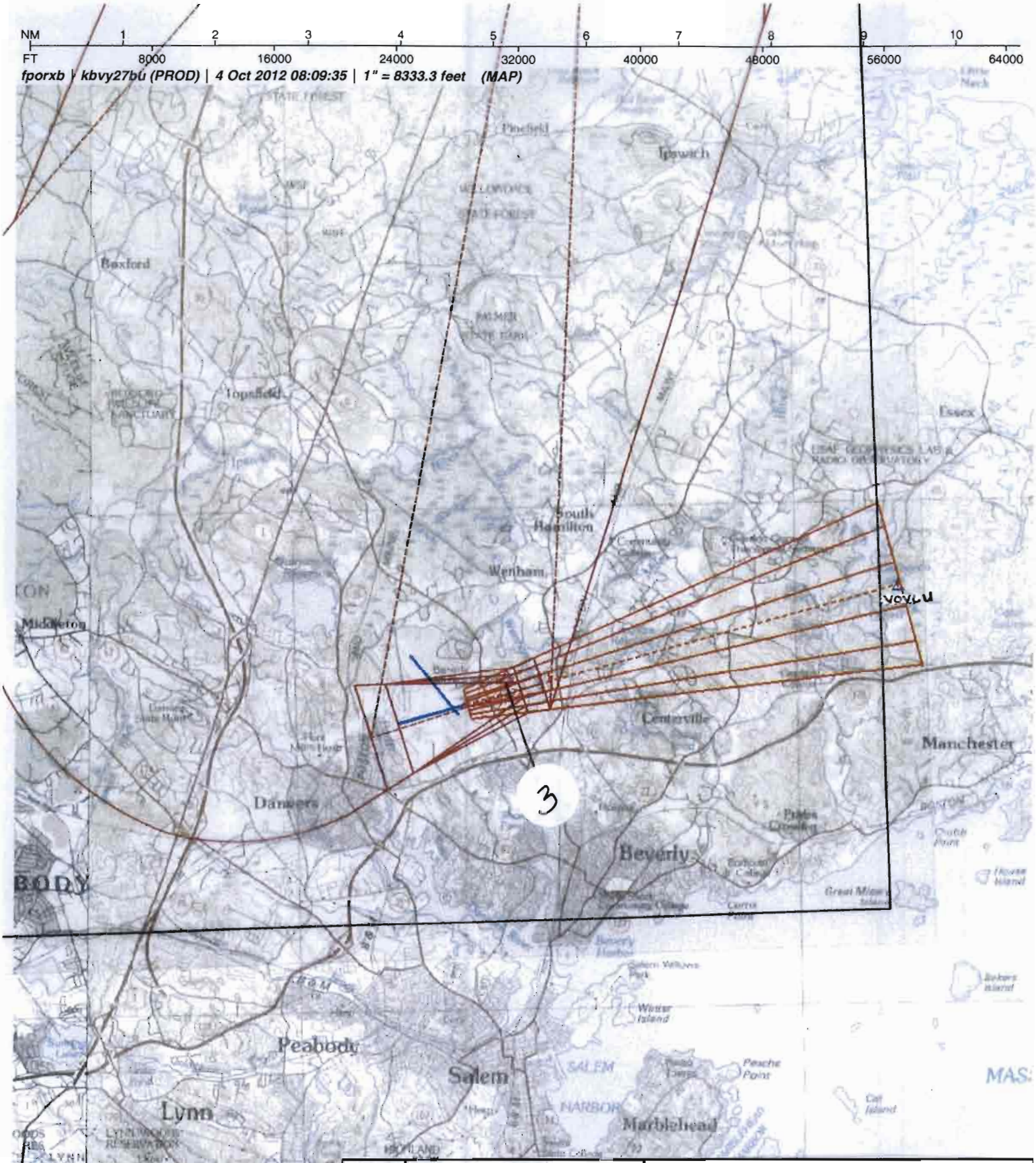
Airport ID:	KBVY
Apt Name:	BEVERLY MUNI
City:	BEVERLY
State:	MA
Proc ID:	RNAV (GPS) RWY 27
Amdt #:	ORIG
Date:	16 SEP 12
Scale:	1:500,000

No	SEGMENT	OBSTRUCTION	ELEV
1	INTERMEDIATE	TOWER	494
5	LNAV	AAO	357
1	H-I-L	TOWER	494
6	MISS	AAO	499
6	HOLDING	AAO	499



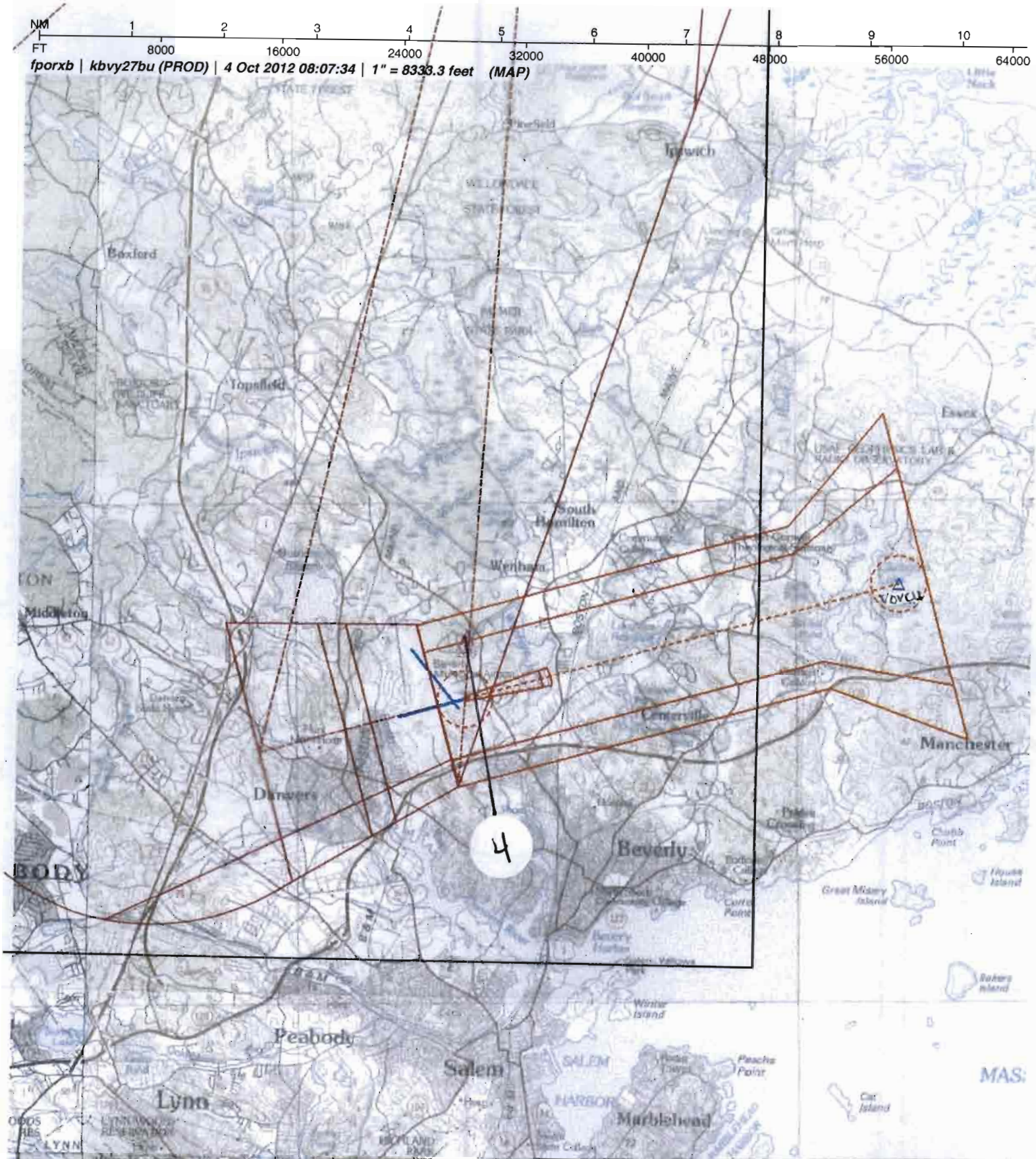
Airport ID:	KBVY
Apt Name:	BEVERLY MUNI
City:	BEVERLY
State:	MA
Proc ID:	RNAV (GPS) RWY 24
Amdt #:	ORIG
Date:	16 SEP 12
Scale:	1:100,000

No	SEGMENT	OBSTRUCTION	ELEV
5	FINAL: LNAV	AAO	357
8	CIRC A/B/C	TANK	287
9	CIRC D	TANK	350



Airport ID:	KBVY
Apt Name:	BEVERLY MUNI
City:	BEVERLY
State:	MA
Proc ID:	RNAV (GPS) RWY 27
Amdt #:	ORIG
Date:	16 SEP 12
Scale:	1:100,000

No	SEGMENT	OBSTRUCTION	ELEV
3	FINAL: LPV	TREE	227
3	MA PEN	TREE	227



Airport ID:	KBVY
Apt Name:	BEVERLY MUNI
City:	BEVERLY
State:	MA
Proc ID:	RNAV (GPS) RWY 27
Amdt #:	ORIG
Date:	16 SEP 12
Scale:	1:100,000

No	SEGMENT	OBSTRUCTION	ELEV
4	FINAL: LNAV/VNAV	TREE	268

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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ODMUE (IF/IAF)	VOVCU (FB)	270.45 / 6.63	1800
VOVCU (FAF)	RW27 (MAP) (FO)	270.35 / 4.86	
RW27 (MAP)	700 MSL	270.35	700
700 MSL	WAKBI (FO)		2000

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW27

CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 2000 DIRECT WAKBI AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD S, LT, 021.00 INBOUND.
FAS OBST: 357 AAO 423600N/0704927W
DISTANCE TO THLD FROM 350 HATH: 0.86 NM.
WAAS CHANNEL # 99731
REFERENCE PATH ID: W27A
LTP HAE: .7 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD E ODMUE, LT, 270.45 INBOUND, 1800 FT. IN LIEU OF PT (IAF)
3. FAC: 270.35 FAF: VOVCU DIST FAF TO MAP: 4.86 THLD: 4.86
4. MIN. ALT: ODMUE 1800, VOVCU 1800
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1800 GS ALT AT: VOVCU 1800 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.20 TCH: 58.0 34:1 IS NOT CLEAR
8. MSA FROM: RW27 2500

MAG VAR: 16W EPOCH YEAR: 1985

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A STANDARD @

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	441	1	350	441	1	350	441	1	350		NA				
LNAV/VNAV DA	438	1	347	438	1	347	438	1	347		NA				
LNAV MDA	620	1	529	620	1	529	620	1 1/2	529	620	1 1/2	529			
CIRCLING	620	1	513	620	1	513	620	1 1/2	513	700	2	593			

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE	ELEVATION: 107 THRE: 91 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
BEVERLY, MA	BEVERLY MUNI	RNAV	RNAV (GPS) RWY 27, ORIG	AMDT: NONE
				DATED

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		**ROUTINE**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] **KBOS APP CON, APT MGR**

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:
DONALD E. SMITH (ROSE BOONE)	**AJV-352**	**09/26/2012**

APPROVED BY

NAME:		FIFO	DATE:
SUSAN CRUMB	**MANAGER**	**AJV-352**	

CHANGES:

1. ORIG.

REASONS:

1. PER FPT.

PDF EDIT: ADDED (FAF) IN TERMINAL ROUTES.

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LAWRENCE ALTIMETER SETTING AND INCREASE ALL DA 34 FT AND ALL MDA 40 FT; INCREASE LPV AND LNAV/VNAV ALL CATS, CIRCLING CAT C AND LNAV CAT C AND D VISIBILITY 1/8 MILE.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: BARO-VNAV NA WHEN USING LAWRENCE ALTIMETER SETTING.

CITY AND STATE	ELEVATION: 107 THRE: 91	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
BEVERLY, MA	AIRPORT NAME: BEVERLY MUNI	RNAV	RNAV (GPS) RWY 27, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) _____

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

CHANGES:

REASONS:

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBVY
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	423459.1400N
LTP/FTP LONGITUDE	0705431.1500W
LTP/FTP ELLIPSOIDAL HEIGHT	+00007
FPAP LATITUDE	423434.9800N
FPAP LONGITUDE	0705627.2300W
THRESHOLD CROSSING HEIGHT (TCH)	00058.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.20
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1376
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	6CC728D3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00277
FPAP ORTHOMETRIC HEIGHT	+00277

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:

APPROVED BY		
NAME:	FIFO	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 PACKET - 424-18 - RNAV (GPS)

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ODMUE K60    W     N42380500W070393211                      W0153     NAR           ODMUE
        SUSAEAENRT   VOVCU K60    W     N42361799W070481107                      W0152     NAR           VOVCU
        SUSAEAENRT   WAKBI K60    W     N42474016W070515916                      W0153     NAR           WAKBI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBVYK6ABVY     0     050YHN42350291W070545812W016000107         1800018000C    MNAR    BEVERLY MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBVYK6FR27   AODMUE 010ODMUEK6EA0EE AL   HF                    27050040    + 01800     18000                 A JS
        SUSAP KBVYK6FR27   R      010ODMUEK6EA0E  I    IF                                + 01800     18000                 A JS
        SUSAP KBVYK6FR27   R      020VOVCUK6EA1E  F 051TF                    27050066    + 01800                  RW27  K6PGA JS
        SUSAP KBVYK6FR27   R      020VOVCUK6EA2WALPV       ALNAV/VNAV ALNAV                                                  JS
        SUSAP KBVYK6FR27   R      030RW27 K6PG0GY M 031TF                    27040049      00149             -320          A JS
        SUSAP KBVYK6FR27   R      040         0  M     CA                    2704        + 00700                           A JS
        SUSAP KBVYK6FR27   R      050WAKBIK6EA0EY  R   DF                                + 02000                           A JS
        SUSAP KBVYK6FR27   R      060WAKBIK6EA0EE  L   HM                    02100040    + 02000                           A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBVYK6GRW27    0047552703 N42345914W070543115-0400    +0000700091025058100R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBVYK6PR27   RW27 001 0000W27A0N4234591400W07054311500+000070320N4234349800W07056272300106751376000580F4005006CC728D3
        SUSAP KBVYK6PR27   RW27 002E      +00277+00277LPV       99731

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBVYK6SRW27 K6PG                0   18018002525                                                                    M
```

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 107 THRE: 91	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BEVERLY, MA	AIRPORT NAME: **BEVERLY MUNI**	**RNAV**	**RNAV (GPS) RWY 27, ORIG**	AMDT: **NONE**
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

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
	ODMUE	ODMUE	010	IAF	HF	L	FO		270.5(254.5T)	004.0	AA 01800	
		ODMUE	010	FACF	IF		FB				AA 01800	
		VOVCU	020	FAF	TF		FB	0.5	270.5(254.5T)	006.6	AA 01800	
		RW27	030	MAP	TF		FO	0.3	270.4(254.4T)	004.9	AT 00149	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		270.4(254.4T)		AA 00700	
	WAKBI	050		DF	R	FO				AA 02000	
	WAKBI	060		HM	L	FO		021.0(005.0T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ODMUE	N423805.00	W0703932.11	N4238.083	W07039.535
	VOVCU	N423617.99	W0704811.07	N4236.300	W07048.185
	WAKBI	N424740.16	W0705159.16	N4247.669	W07051.986
	RW27	N423459.14	W0705431.15	N4234.986	W07054.519

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW27	00091	58

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: **107** THRE: **91**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BEVERLY, MA	AIRPORT NAME: **BEVERLY MUNI**	**RNAV**	**RNAV (GPS) RWY 27, ORIG**	AMDT: **NONE**
				DATED:

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

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.
INTERMEDIATE	ODMUE (IF/IAF)	VOVCU	1. TOWER (25-000500)	423534.00N/0704330.00W	494 (5C)	500		1000
			2. TERRAIN	423623.70N/0704404.30W	270 (300)		AS1500	1800
FINAL: LPV	VOVCU	RW27	3. TREE (25-020340)	423512.47N/0705353.91W	227 (1A)	34:1	MA57	441/350
FINAL: LNAV/VNAV	VOVCU	RW27	4. TREE (25-020279)	423534.14N/0705429.80W	268 (1C)	23.2:1	AC50	438/347
FINAL: LNAV	VOVCU	RW27	5. AAO	423600.00N/0704927.00W	357 (2C)	250		620
2. HOLD-IN-LIEU-OF-PT	ODMUE	P-4	1. TOWER (25-000500)	423534.00N/0704330.00W	494 (5D)	1000		1500
			2. TERRAIN	423623.70N/0704404.30W	270 (300)		AS1500	1800
3. MISSED APPROACH MAP:	DA / DA / RW27	WAKBI	3. TREE (25-020340)	423512.47N/0705353.91W	227 (1A)	ASC		2000
			6. AAO	424218.00N/0705333.00W	499 (4E)	1000		1500
ELEV:	203/288/520		7. TERRAIN	424218.00N/0705333.00W	299 (300)		AS1500	1800

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL		OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
CATEGORY A	1.3 NM	350	513		8. TANK (25-020408)	423348.85N/0705429.70W	287 (1A)	300	SI	620
CATEGORY B	1.5 NM	450	513		8. TANK (25-020408)	423348.85N/0705429.70W	287 (1A)	300	SI	620
CATEGORY C	1.7 NM	450	513		8. TANK (25-020408)	423348.85N/0705429.70W	287 (1A)	300	SI	620
CATEGORY D	2.3 NM	550	593		9. TANK (25-000424)	423456.00N/0705827.00W	350 (4D)	300	AC50	700
CATEGORY E	4.5 NM	550								

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: **RW27**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (25-000619)	262/ 28.6	1462 (2A)	2500					

CITY AND STATE	ELEVATION: 107 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
BEVERLY, MA	BEVERLY MUNI	RNAV	RNAV (GPS) RWY 27, ORIG	ANE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
BOS APP CON BVY TOWER	N W S / F A A / A / C — OTHER: ASOS	SOURCE: KBVY / KLWM
		DISTANCE: 0 / 12.16
		HOURS REMOTE OPERATION: 24 / BACKUP
SATISFACTORY ON:		
X V H F X U H F H F	LOCATION: KBVY	ADJUSTMENT: 0 / 40

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3

	ALS
	(S) SALS
X	MALS 16 (PCL)
	HIRL
X	MIRL 16 (PCL), 27 (PCL), 34, 09 (PCL)
X	REIL 34 (PCL)
	TDZ
	C/LINE
X	OTHER (SPECIFY) PAPI-4L 16 (PCL)

5. APPROACH & RUNWAY LIGHTING

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 27, 09; -F 16, 34
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.20	ELEV RWY THRESHOLD: 91.0
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 58.0

9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: DONALD E. SMITH (ROSE BOONE)	DATE: 09/26/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1.

PARA 251, 20:1 PENETRATION.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KBVY 107.2, KLWM 147.7
RA = 33.64.
SEE ATTACHED AIRSPACE LETTER.

100 FT VEGETATION USED.

NO CAT D MINIMUMS FOR LPV AND LNAV/VNAV DUE TO 3.2 GPA.

HIGH TEMPERATURE CALCULATION USED CAT C SINCE CAT D LNAV/VNAV NOT PUBLISHED.

AVERAGE COLD TEMPERATURE BASED ON 5-YEAR HISTORY (2007-2011)
AIRPORT AVERAGE COLD TEMP: -16
ISA DEVIATION: -30.79

LPV SLOPE: 34:1
LNAV/VNAV SLOPE: 23.22:1

25 DEGREE BANK ANGLE USED IN MISSED APPROACH.

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1.

NON-STANDARD TURN IN H-I-L PER FPT/ATC.

ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS:
R27 20:1
138 TREE (25-020330) 423504.46N-0705422.49W (18.54)
120 TREE (25-020328) 423456.45N-0705421.58W (8.24)
228 TREE (25-020338) 423513.55N-0705356.21W (1.50)
112 TREE (25-020326) 423502.50N-0705427.20W (12.18)
155 TREE (25-020334) 423506.90N-0705414.30W (2.75)
113 TREE (25-020305) 423502.74N-0705429.19W (20.01)
125 TREE (25-020301) 423456.77N-0705421.55W (12.69)

R27 34:1
192 TREE (25-020344) 423505.16N-0705349.23W (13.27)
214 TREE (25-020343) 423508.36N-0705350.50W (35.98)
193 TREE (25-020342) 423505.50N-0705350.03W (15.69)
214 TREE (25-020341) 423508.78N-0705351.81W (37.82)
277 TREE (25-020340) 423512.49N-0705353.91W (52.29)
189 TREE (25-020337) 423512.63N-0705357.57W (23.91)
195 TREE (25-020336) 423513.28N-0705357.81W (27.90)
134 TREE (25-020332) 423457.53N-0705412.29W (10.25)
133 TREE (25-020331) 423458.73N-0705413.67W (11.20)
106 TREE (25-020304) 423458.46N-0705423.21W (4.62)

R34 20:1
188 TREE (25-020407) 423439.58N-0705427.73W (43.17)
177 TREE (25-020406) 423441.66N-0705430.21W (46.19)
162 POLE (25-020405) 423441.79N-0705431.80W (35.47)
150 TREE (25-020388) 423443.67N-0705432.76W (33.10)
159 POLE (25-020387) 423444.76N-0705434.56W (50.63)
129 TREE (25-020385) 423448.79N-0705436.62W (41.29)
137 TREE (25-020370) 423452.34N-0705430.49W (48.64)

CONT.

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
3. MISSED APPROACH MAP:								
ELEV:								

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES

PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE	ELEVATION: 107 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
BEVERLY, MA	**BEVERLY MUNI**	**RNAV**	**RNAV (GPS) RWY 27, ORIG**	**ANE**

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ NWS ☐ FAA ☐ A/C OTHER:	SOURCE: DISTANCE: HOURS REMOTE OPERATION:
☐ VHF ☐ UHF ☐ HF	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:

PART C - REMARKS:

CONTINUED.
34:1
165 BLDG (25-020414) 423429.86N-0705420.99W (14.19)
133 TREE (25-020397) 423444.04N-0705422.74W (17.26)

R09
92 TREE (25-020371) 423444.82N-0705534.09W (9.41)
93 TREE (25-020375) 423446.96N-0705535.50W (8.27)
110 TREE (25-020379) 423448.02N-0705536.91W (21.65)
99 TREE (25-020383) 423446.79N-0705535.93W (12.49)

R16
188 TREE (25-020288) 423537.31N-0705532.14W (22.86)

RADIO FIX AND HOLDING DATA RECORD

NAME: ODMUE **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 423805.00N/0703932.11W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E		WP	090.45	270.45	L		4	1800	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (25-000500)	423534.00N/0704330.00W	494	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 PER ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 27		1	KBVY	BEVERLY	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 03/07/2013

DEVELOPED BY: **DATE:** 09/20/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (ROSE BOONE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

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

12/04/2012: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 09/20/2012.
CHANGED HOLDING PATTERN FROM RIGHT TURN TO LEFT TURN.

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VOVCU **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 423617.99N/0704811.07W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 27			KBVY	BEVERLY	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 03/07/2013

DEVELOPED BY: **DATE:** 10/16/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (ROSE BOONE)

APPROVED BY: **DATE:** **OFFICE:** **NAME:** SUE CRUMB

SIGNATURE:

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

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: WAKBI **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 424740.16N/0705159.16W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S		WP	201.00	021.00	L		4	2000	14000	4	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	424218.00N/0705333.00W	499	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 16		1	KBVY	BEVERLY	MA (US)
IAP	RNAV (GPS) RWY 27		1	KBVY	BEVERLY	MA (US)
IAP	RNAV (GPS) RWY 34		1	KBVY	BEVERLY	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 08/25/2011

DEVELOPED BY: **DATE:** 03/29/2011 **OFFICE:** AJV-352 **NAME:** GEORGE TRAMMELL

APPROVED BY: **DATE:** 06/13/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **BEVERLY** STATE: **MA**

AIRPORT NAME: **BEVERLY MUNI** ID: **KBVY**

PROCEDURE: **RNAV (GPS) RWY 27** AMDT: **ORIG**

DOCKET#: **NOT REQUIRED**
(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 **3.09**
   (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 **254.27**
4. High Terrain in **FINAL** segment containing 1000' point **194**
5. Distance from **THLD** to 1500' point **4.66**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.95**
7. True Course of **FINAL** segment containing 1500' point **254.27**
8. High Terrain in **FINAL** segment containing 1500' point **194**
9. Threshold Coordinates (if straight-in) ... **423459.14N** / **0705431.15W**
10. ARP Coordinates ..... **423502.91N** / **0705458.12W**
11. Runway Approach End and distance furthest from ARP ..... RWY **16**
    Distance **0.53** NM
12. FAF Coordinates ..... **423617.99N** / **0704811.07W**

REMARKS: Approach/Drawing attached.

9. THIS IS THE DISPLACED THRESHOLD