Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 08/01/2011	Task #: 2009111820267301007	Request #: 20091118202673
Procedure: ILS OR LOC RWY 11 AMDT 23		Airport ID: KORH	Airport: WORCESTER REGIONAL		Reimbursable #:
City: WORCESTER	ST: MA	GPS #:		Estimated Chart Date: 05/31/2012	FICO #:
Fac ID: RSR	Fac. Type: ILS		Specialist: GEORGE TRAMMELL(Contractor)		

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	08/02/2011	01/25/2012	DONALD SMITH	
QA:	01/25/2012	01/26/2012	SCOTT BEARD	
Liaison:	01/26/2012		Terrell	

Procedure Comments:

Remark Type: INFORMATION

PLG 3.FF

WORCESTER, MA WORCESTER REGIONAL (KORH) ILS OR LOC RWY 11, AMDT 23 ENROUTE-NO FC: 4.17.12 PUB: 5.31.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): LAWRN-INT, REV 4; RILOC-INT, REV 1; SPENO-INT, REV 11; TROYY-INT, REV 1; (INFO ONLY) GARDNER (GDM) VDME, REV 17.

CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

ILS or LOC RWY 11
WORCESTER RGNL (ORH)

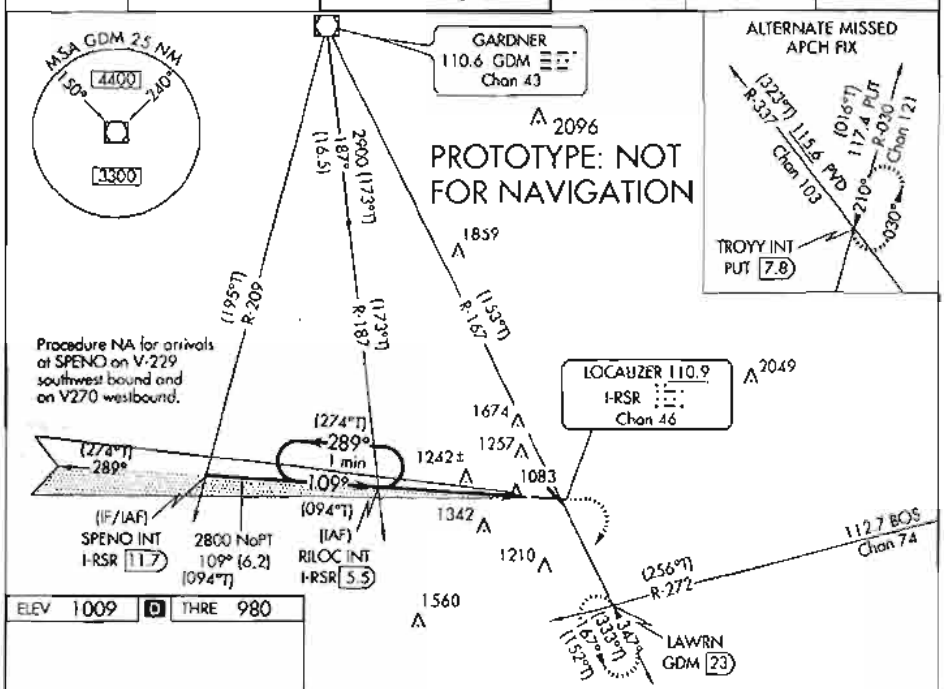
LOC/DME I-RSR	APP CRS	Rwy ldg	7001
110.9	109°	THRE	980
Chan 46		Apt Elev	1009

Visibility reduction by helicopters NA. VDP NA with Bedford altimeter setting. When local altimeter setting not received, use Bedford altimeter setting and increase ILS DA to 1373 and all MDA 200 feet; increase S-ILS 11 all Cats visibility to RVR 4500 and S-LOC 11 Cats C/D visibility to 1¼, increase Circling Cat B visibility ¾ mile, and Cat C visibility ¾ mile. For inoperative MALSR, increase S-LOC 11 Cat A/B visibility to RVR 5000, Cat C/D visibility to 1⅜. For inoperative MALSR when using Bedford altimeter setting, increase S-ILS 11 visibility all Cats to 1⅜, S-LOC 11 Cat A/B visibility to RVR 5000 and Cat C/D visibility to 2.

MALSR

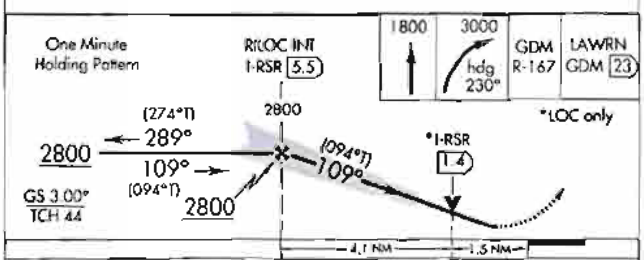
MISSED APPROACH: Climb to 1800 then climbing right turn to 3000 on heading 230° and GDM VOR/DME R-167 to LAWRN INT/GDM 23 DME and hold, continue climb-in-hold to 3000.

ATIS	BRADLEY APP CON	WORCESTER TOWER*	GND CON	CLNC DEL	UNICOM
126.55	119.0 327.1	120.5 (CTAF) 263.0	123.85	128.65	122.95



ELEV 1009 D THRE 980

109° 5.6 NM from FAF

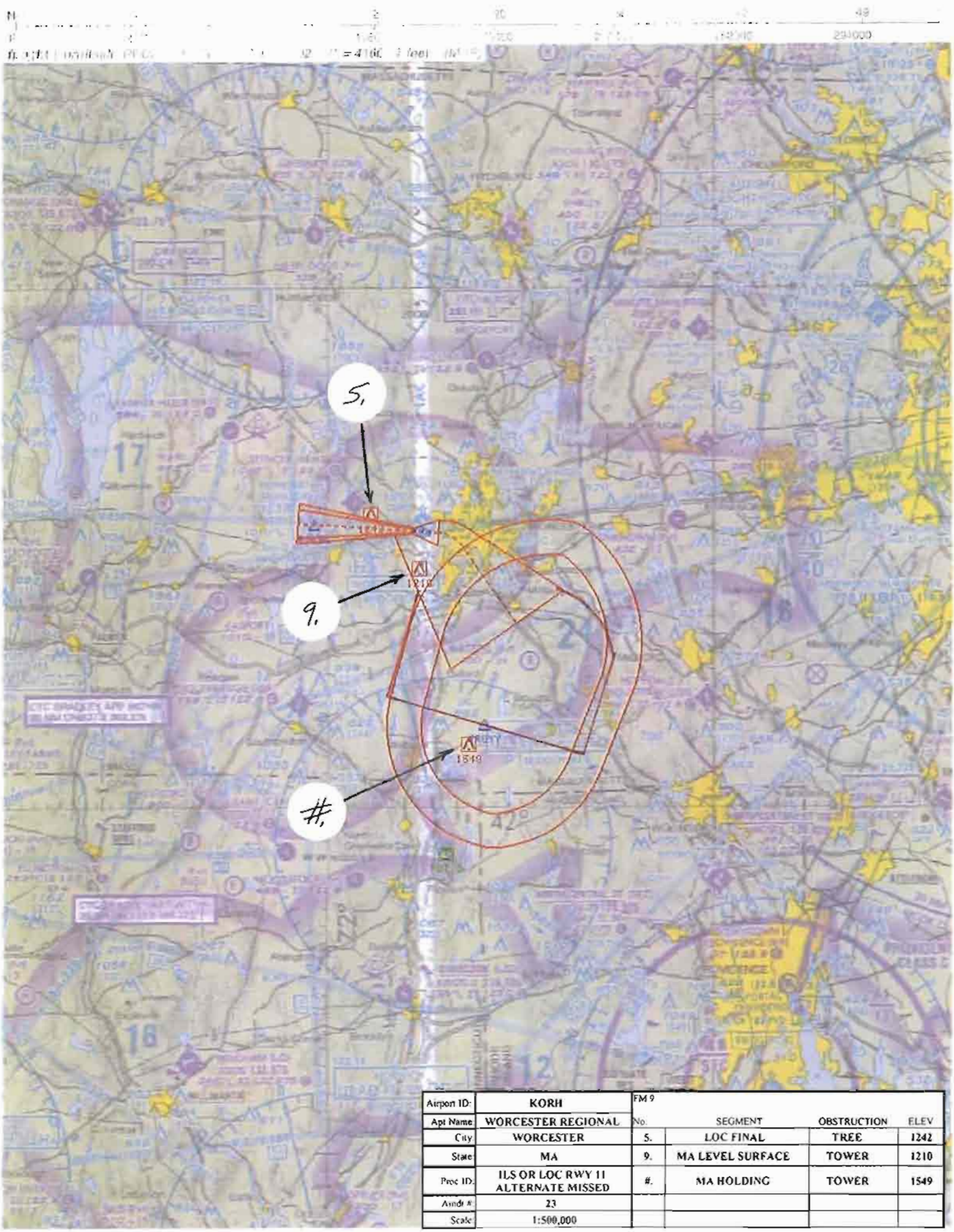


TDZ/CL Rwy 11
REIL Rwys 15, 29 and 33
HIRL Rwy 11-29
MIRL Rwy 15-33

FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

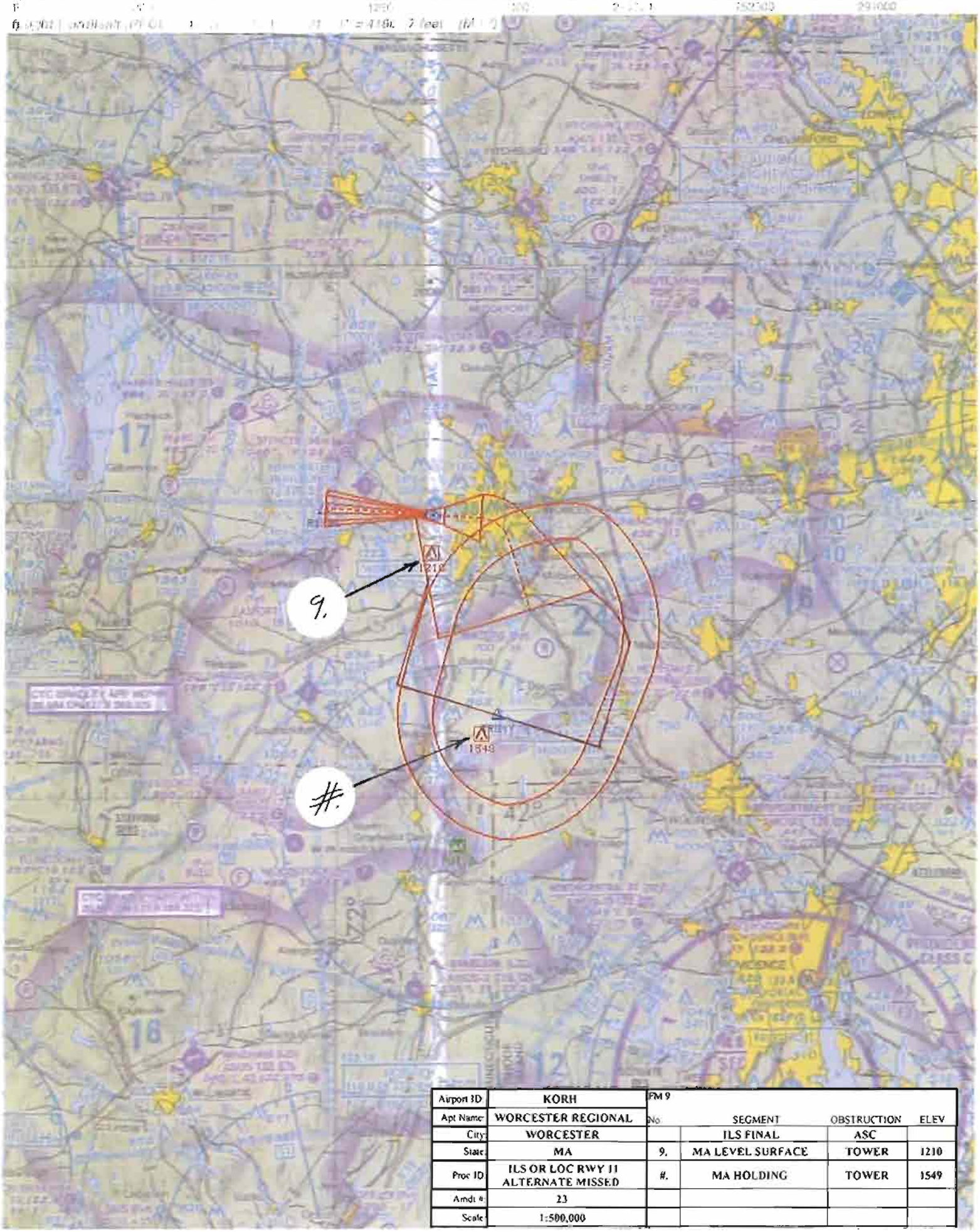
CATEGORY	A	B	C	D
S-ILS 11	1184/40	204 (200-¾)		
S-LOC 11	1500/40	520 (500-¾)	1500/55	520 (500-1¼)
CIRCLING	1560-1 551 (600-1)	1640-1 631 (700-1)	1720-2 711 (800-2)	1980-3 971 (1000-3)



Airport ID:	KORH
Apt Name	WORCESTER REGIONAL
City	WORCESTER
State	MA
Proc ID:	ILS OR LOC RWY 11 ALTERNATE MISSED
Amdt #	23
Scale	1:500,000

FM 9

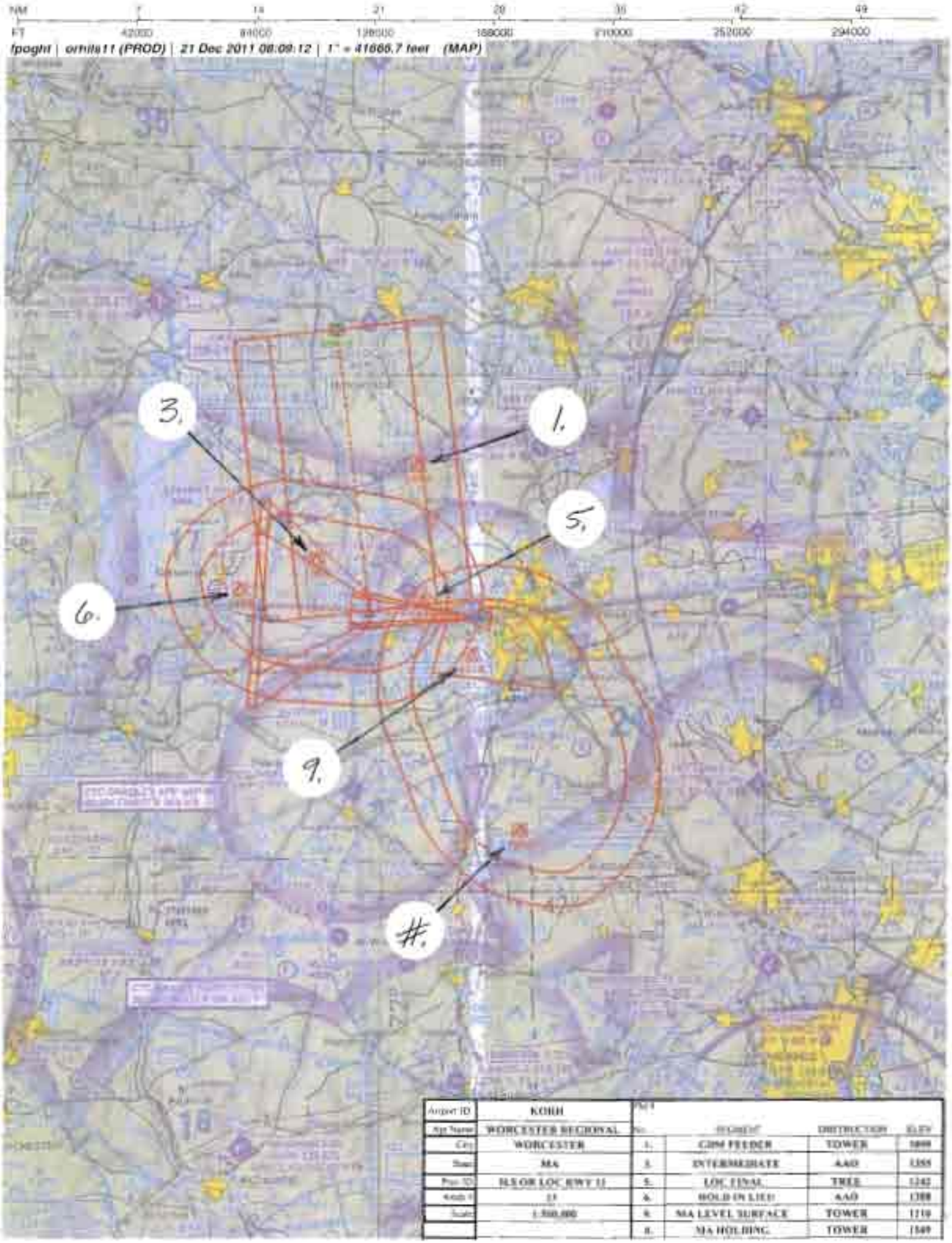
No.	SEGMENT	OBSTRUCTION	ELEV
5.	LOC FINAL	TREE	1242
9.	MA LEVEL SURFACE	TOWER	1210
#.	MA HOLDING	TOWER	1549



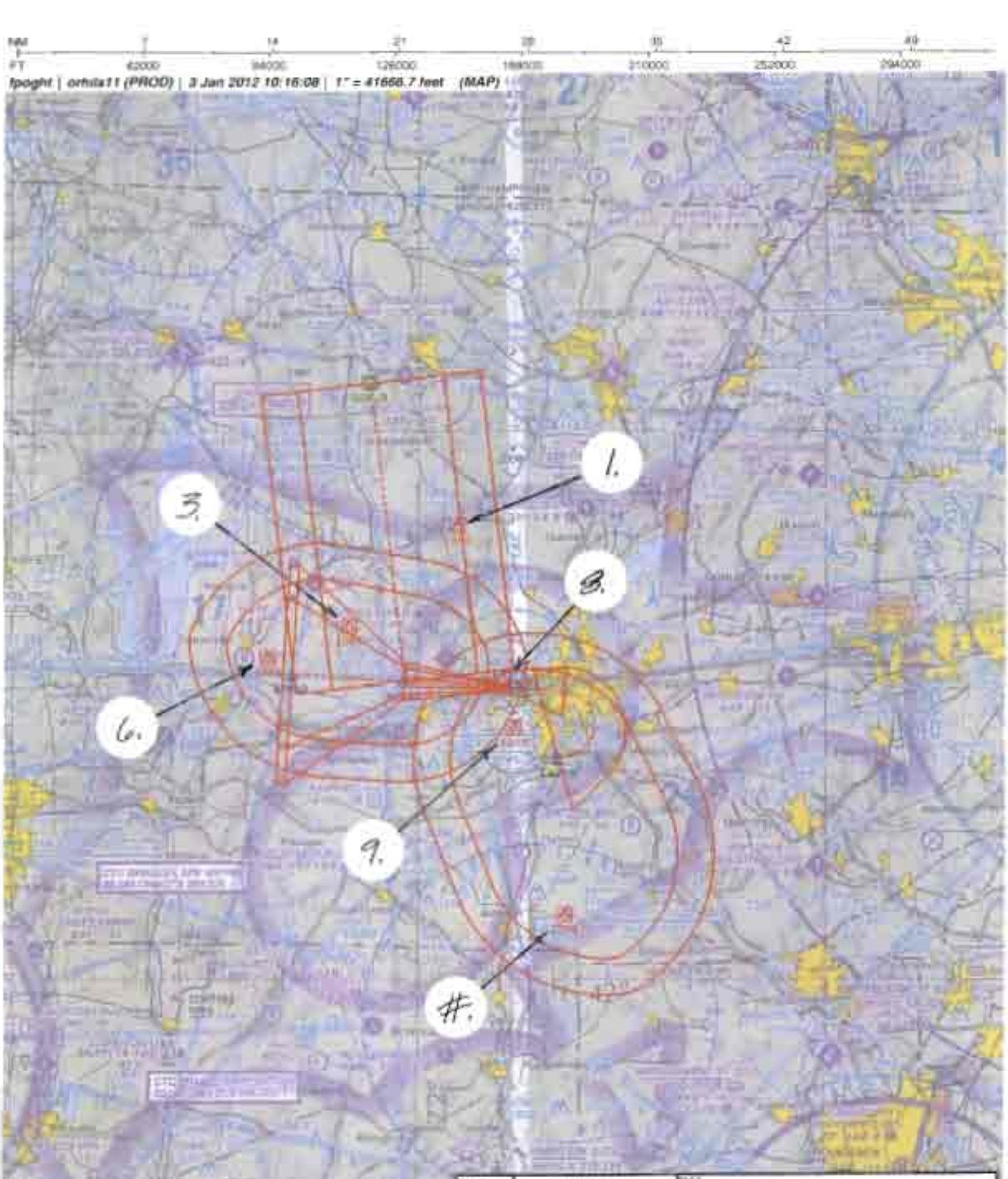
Airport ID	KORH
Apt Name	WORCESTER REGIONAL
City	WORCESTER
State	MA
Proc ID	ILS OR LOC RWY 11 ALTERNATE MISSED
Amdt #	23
Scale	1:500,000

FM 9

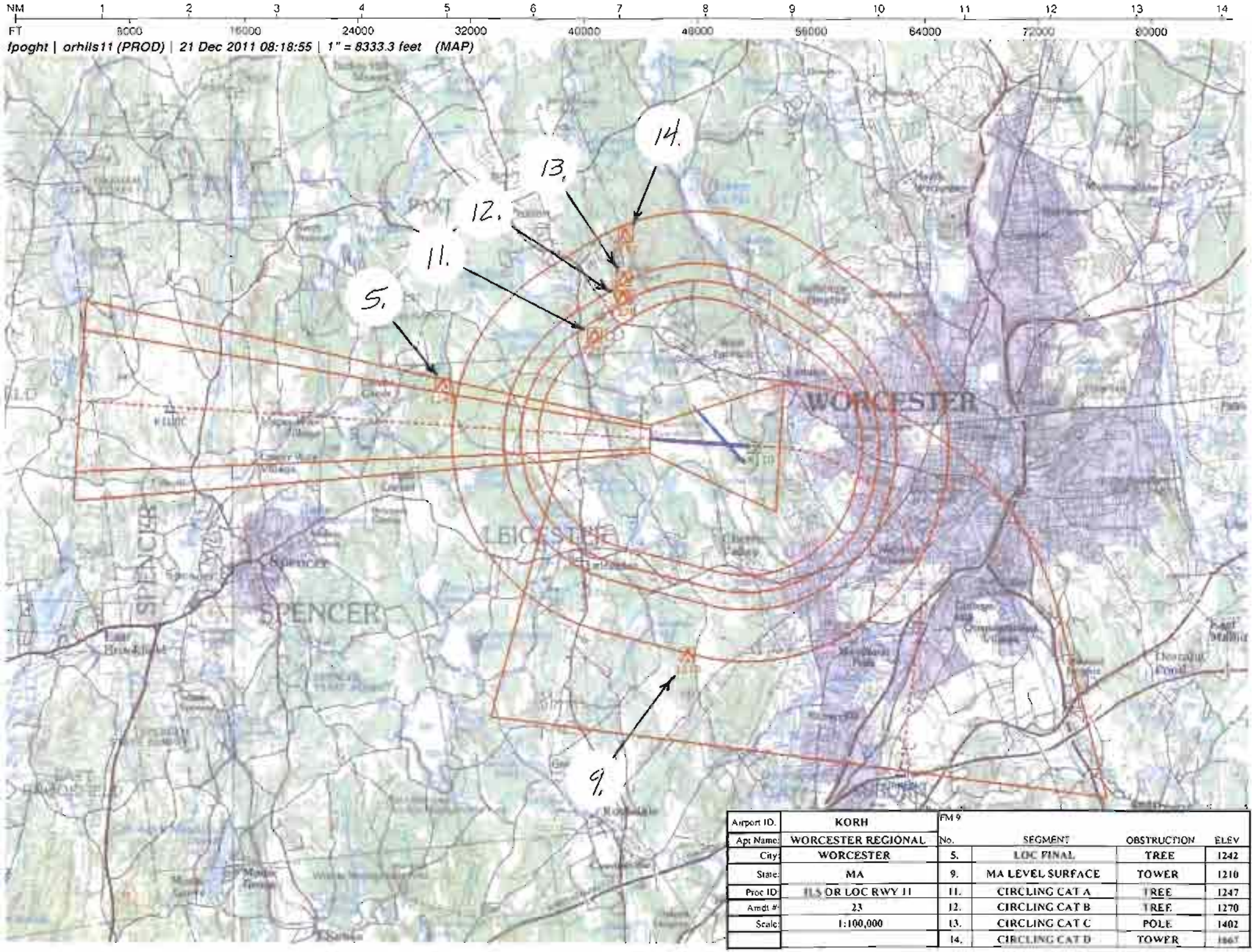
No	SEGMENT	OBSTRUCTION	ELEV
	ILS FINAL	ASC	
9.	MA LEVEL SURFACE	TOWER	1210
#.	MA HOLDING	TOWER	1549



Airport ID	KORH	Plot			
Apt Name	WORCESTER REGIONAL	No.	SEGMENT	DISTRUCTION	ELEV
City	WORCESTER	1.	GBM FEEDER	TOWER	1099
State	MA	3.	INTERMEDIATE	AAO	1355
Proj. ID	ILS OR LOC RWY 11	5.	LOC FINAL	TREE	1242
Attch #	13	6.	HOLD IN LIEU	AAO	1388
Scale	1:500,000	9.	MA LEVEL SURFACE	TOWER	1110
		8.	MA HOLDING	TOWER	1349



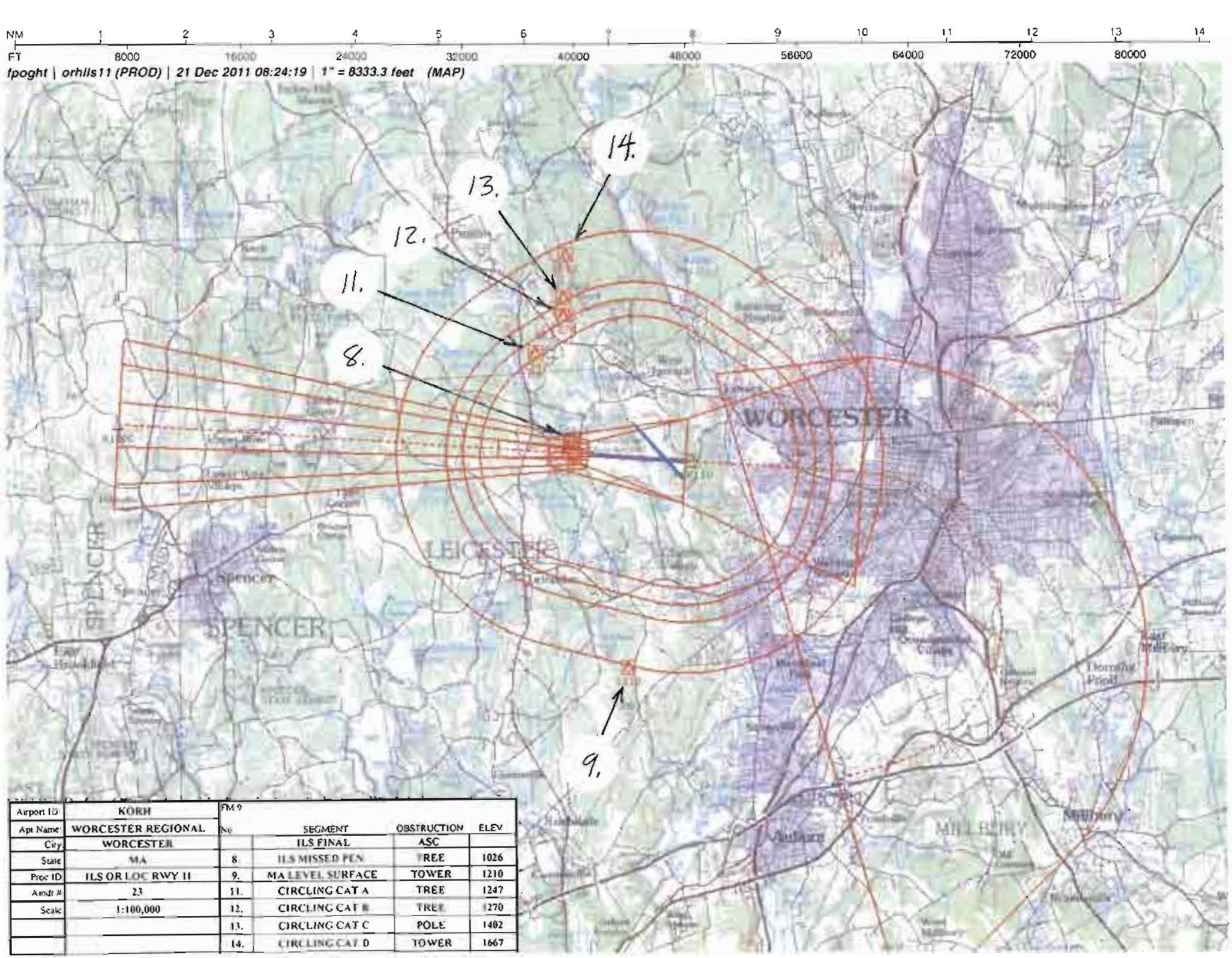
Airport ID:	KORH	Ref #			
Apt Name:	WORCESTER REGIONAL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	WORCESTER	1.	GDM FEEDER	TOWER	1859
State:	MA	3.	INTERMEDIATE	AAO	1355
Proc ID:	ILS OR LOC RWY 11		ILS FINAL	ASC	
Amdt #:	23	6.	HOLD IN LIEU	AAO	1388
Scale:	1:500,000	8.	ILS MISSED PFN	TREE	1026
		9.	MA LEVEL SURFACE	TOWER	1210
		#.	MA HOLDING	TOWER	1549



Airport ID:	KORH
Apt Name:	WORCESTER REGIONAL
City:	WORCESTER
State:	MA
Proc ID:	ILS OR LOC RWY 11
Amdt #:	23
Scale:	1:100,000

FM 9

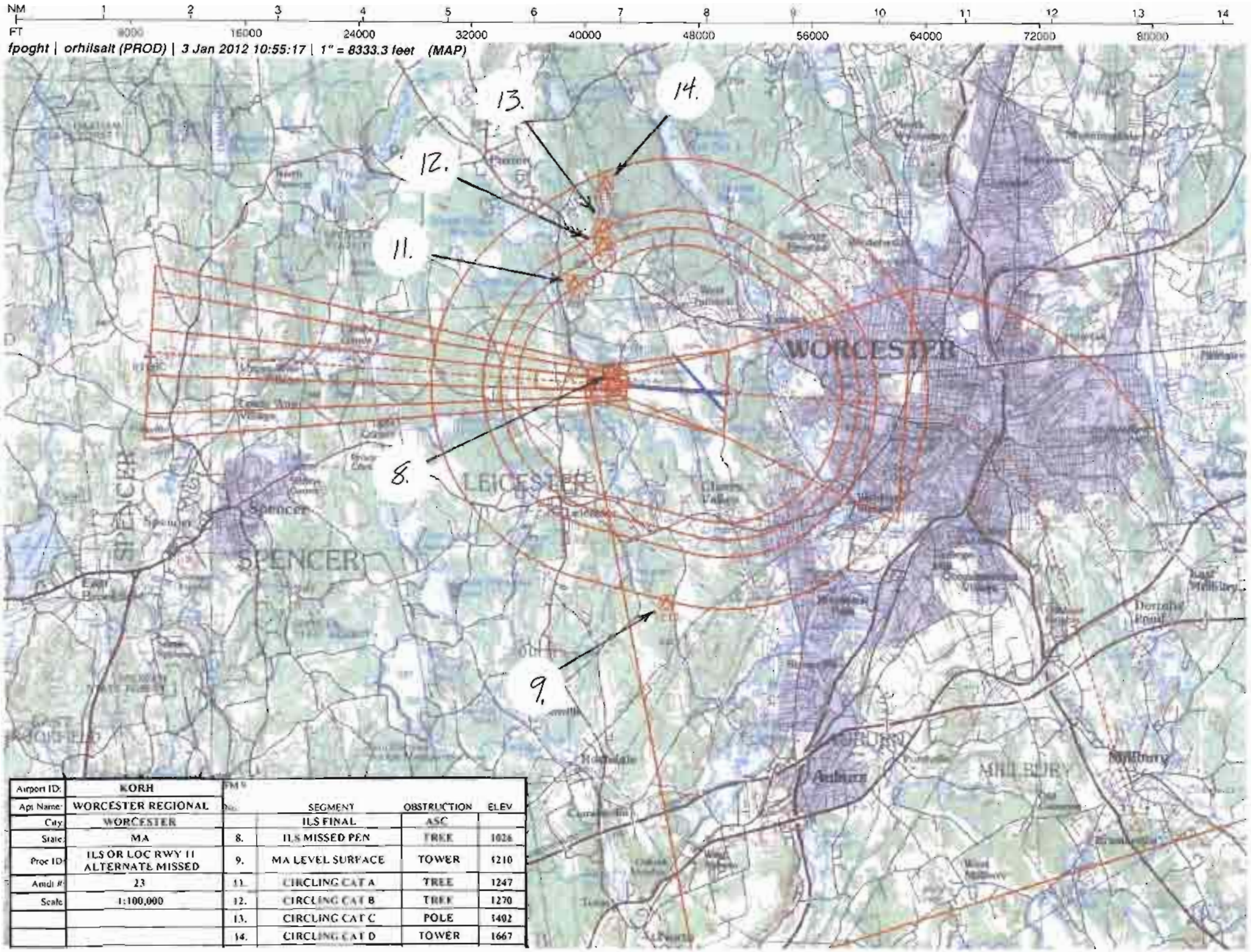
No.	SEGMENT	OBSTRUCTION	ELEV
5.	LOC FINAL	TREE	1242
9.	MA LEVEL SURFACE	TOWER	1210
11.	CIRCLING CAT A	TREE	1247
12.	CIRCLING CAT B	TREE	1270
13.	CIRCLING CAT C	POLE	1402
14.	CIRCLING CAT D	TOWER	1867



Airport ID:	KORH
Apt Name:	WORCESTER REGIONAL
City:	WORCESTER
State:	MA
Proc ID:	ILS OR LOC RWY 11
Amdt #:	23
Scale:	1:100,000

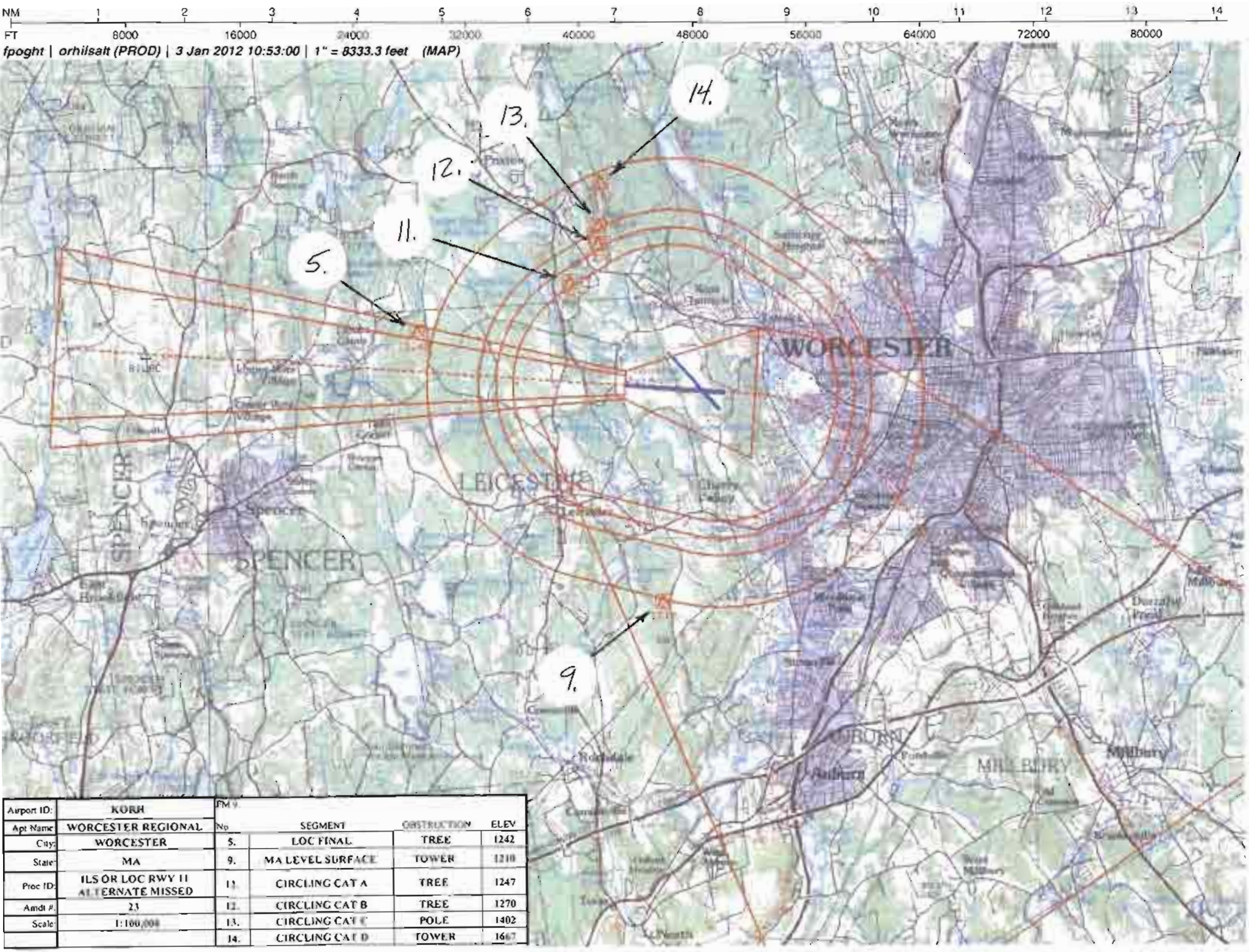
FM 9

No	SEGMENT	OBSTRUCTION	ELEV
	ILS FINAL	ASC	
8.	ILS MISSED PEN	TREE	1026
9.	MA LEVEL SURFACE	TOWER	1210
11.	CIRCLING CAT A	TREE	1247
12.	CIRCLING CAT B	TREE	1270
13.	CIRCLING CAT C	POLE	1402
14.	CIRCLING CAT D	TOWER	1667



Airport ID:	KORH
Apt Name:	WORCESTER REGIONAL
City:	WORCESTER
State:	MA
Proc ID:	ILS OR LOC RWY 11 ALTERNATE MISSED
Amdt #:	23
Scale:	1:100,000

FMS No.	SEGMENT	OBSTRUCTION	ELEV
	ILS FINAL	ASC	
8.	ILS MISSED PEN	TREE	1026
9.	MA LEVEL SURFACE	TOWER	1210
11.	CIRCLING CAT A	TREE	1247
12.	CIRCLING CAT B	TREE	1270
13.	CIRCLING CAT C	POLE	1402
14.	CIRCLING CAT D	TOWER	1667



Airport ID:	KORH
Apt Name:	WORCESTER REGIONAL
City:	WORCESTER
State:	MA
Proc ID:	ILS OR LOC RWY 11 ALTERNATE MISSED
Amdt #:	23
Scale:	1:100,000

FMS

No	SEGMENT	OBSTRUCTION	ELEV
5.	LOC FINAL	TREE	1242
9.	MA LEVEL SURFACE	TOWER	1210
11.	CIRCLING CAT A	TREE	1247
12.	CIRCLING CAT B	TREE	1270
13.	CIRCLING CAT C	POLE	1402
14.	CIRCLING CAT D	TOWER	1667

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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
GDM VOR/DME	RILOC INT/I-RSR 5.48 DME	187.39 / 16.45	2900
SPENO INT/I-RSR 11.65 DME (IF/IAF)	RILOC INT/I-RSR 5.48 DME (NOPT)	108.84 / 6.18 (I-RSR)	2800

MISSED APPROACH

ILS: DA
LOC: 5.58 MILES AFTER RILOC INT/RSR 5.48 DME

CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 230 AND GDM VOR/DME R-167 TO LAWRN INT/GDM 23.00 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO (SEE FORM 8260-10)

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD W RILOC, LT, 108.84 INBOUND, 2800 FT. IN LIEU OF PT (IAF)
3. FAC: 108.84 FAF: RILOC INT/I-RSR 5.48 DME DIST FAF TO MAP: 5.58 THLD: 5.58
4. MIN. ALT: RILOC 2800
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 850
6. MIN GS INCPT: 2800 GS ALT AT: RILOC 2800 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 44.4
8. MSA FROM: GDM VOR/DME 060-330 3300, 330-060 4400

ADDITIONAL FLIGHT DATA:

HOLD S, LT, 347.26 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE TROYY INT, LT, 210.28 INBOUND.
CHART FAS OBST: 1242 TREE 421635N/0715641W
CHART IN PLANVIEW: TROYY INT/PUT 7.81 DME.
*LOC ONLY
CHART VDP AT 1.40 DME*
DISTANCE VDP TO THLD 1.49 MILES
CHART DUNCA LOM IN HALF-TONE

MAG VAR: 15W EPOCH YEAR: 1995

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | ILS: STANDARD # | LOC: 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
S-ILS 11	1184	4000	204	1184	4000	204	1184	4000	204	1184	4000	204			
S-LOC 11	1500	4000	520	1500	4000	520	1500	5500	520	1500	5500	520			
CIRCLING	1560	1	551	1640	1	631	1720	2	711	1980	3	971			

NOTES:
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART NOTE: VDP NA WITH BEDFORD ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BEDFORD ALTIMETER SETTING AND INCREASE ILS DA TO 1373 AND ALL MDA 200 FEET; INCREASE S-ILS 11 ALL CATS VISIBILITY TO RVR 4500 AND S-LOC (SEE FORM 8260-10)

CAT B 700-2, CAT C 800-2, CAT D 1000-3
@ CAT D 1000-3
# @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
#@ NA WHEN CONTROL TOWER CLOSED.

CHECKED

CITY AND STATE	ELEVATION: 1009 THRE: 980 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
WORCESTER, MA	WORCESTER RGNL	I-RSR	ILS OR LOC RWY 11, AMDT 23	AMDT: 22
				DATED 12/22/2005

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]	[X]	[X] ZBW, BDL APP CON, ORH ATCT, AIRPORT MANAGER

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:
DONALD E. SMITH (NICHOLAS K. JACKSON)	AJV-352	10/04/2011

APPROVED BY

NAME:		FIFO	DATE:
DARRYEL ADAMS	MANAGER	AJV-352	

CHANGES:

1. COURSE/DISTANCE FROM GDM VOR/DME TO RILOC CHANGED FROM 187.08/16.47 TO 187.39/16.45.
2. DISTANCE FROM SPENO TO RILOC CHANGED FROM 6.27 TO 6.18.
3. DIST FAF TO MAP AND THLD CHANGED FROM 5.49 TO 5.58.
4. S-ILS 11 DA/HAT RAISED FROM 1181/200 TO 1184/204 FOR ALL CATS. VISIBILITY RAISED FROM 1800 TO 4000 FOR ALL CATS.
5. S-LOC 11 VISIBILITY FOR CATS A/B RAISED FROM 2400 TO 4000, CAT C VISIBILITY RAISED FROM 5000 TO 5500, AND CAT D VISIBILITY LOWERED FROM 6000 TO 5500.
6. S-LOC 11 HAT RAISED FROM 519 TO 520 FOR ALL CATS.
7. CIRCLING CAT A MDA/HAA RAISED FROM 1540/530 TO 1560/551, CAT B AND C HAA RAISED 1 FOOT.
8. CIRCLING CAT D MDA/HAA LOWERED FROM 2000/990 TO 1980/971.
9. MISSED APPROACH CLIMB TO ALTITUDE RAISED FROM 1400 TO 1800.
10. ALTERNATE MISSED CLEARANCE LIMIT CHANGED FROM GOZZR LOM TO TROYY INT.
11. ADDED INOPERATIVE MALSR NOTES.
12. ADDED PROCEDURE NA FOR ARRIVALS AT SPENO ON V270 WESTBOUND.
13. ADDED NOTE CHART DUNCA LOM IN HALF-TONE.

REASONS:

1, 2, 3. 8260.54A L-V RNP PFAF FORMULA APPLIED.
4. NEW MISSED APPROACH PENETRATION AND 34:1 PENETRATION.
5. 34:1 PENETRATION AND IAW 8260.3B CHNG 20 TABLE 3.6 THRU 3.8.
6. THRE UTILIZED IN LIEU OF TDZE.
7. NEW CONTROLLING OBSTACLE AND THRE UTILIZED.
8. ACCURACY CODE ADJUSTMENT NO LONGER REQUIRED.
9. CLIMB TO ALTITUDE REACHED PRIOR TO END OF SECTION 1.
10. DECOMMISSIONING OF GOZZR LOM.
11. IAW 8260.19D PARA 854(M)3.
12. IAW 8260.19D PARA 805(G)2.
13. PER 8260.19E PARA 8-52F.(4).

5/8/12: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 5/3/12.

1. ADDED ADDITIONAL FLIGHT DATA NOTE CHART DUNCA LOM IN HALF-TONE. CHANGE AND REASON REFERENCE CHART DUNCA LOM IN HALF-TONE.

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MISSED APPROACH INSTRUCTIONS, (CONT.):
3000 ON HEADING 160 ON PUT VOR/DME R-030 TO TROYY INT/PUT 7.81 DME AND HOLD.

NOTES, (CONT.):
11 CATS C/D VISIBILITY TO 1 1/2, INCREASE CIRCLING CAT B VISIBILITY 1/4 MILE, AND CAT C VISIBILITY 3/4 MILE.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SPENO ON V-229 SOUTHWEST BOUND AND ON V270 WESTBOUND.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 11 CAT A/B VISIBILITY TO RVR 5000, CAT C/D VISIBILITY TO 1 3/8.
CHART NOTE: FOR INOPERATIVE MALSR WHEN USING BEDFORD ALTIMETER SETTING, INCREASE S-ILS 11 VISIBILITY ALL CATS TO 1 3/8, S-LOC 11 CAT A/B VISIBILITY TO RVR 5000 AND CAT C/D VISIBILITY TO 2.

CITY AND STATE	ELEVATION: 1009 THRE: 980	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
WORCESTER, MA	AIRPORT NAME: WORCESTER RGNL	I-RSR	ILS OR LOC RWY 11, AMDT 23	AMDT: 22
				DATED: 12/22/2005

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]	[X]	[X] ZBW, BDL APP CON, ORH ATCT, AIRPORT MANAGER

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:
DONALD E. SMITH (NICHOLAS K. JACKSON)	AJV-352	10/04/2011

APPROVED BY		
NAME:	FIFO	DATE:
DARRYEL ADAMS MANAGER	AJV-352	

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3. DIST FAF TO MAP AND THLD CHANGED FROM 5.49 TO 5.58.
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5. S-LOC 11 VISIBILITY FOR CATS A/B RAISED FROM 2400 TO 4000, CAT C VISIBILITY RAISED FROM 5000 TO 5500, AND CAT D VISIBILITY LOWERED FROM 6000 TO 5500.
6. S-LOC 11 HAT RAISED FROM 519 TO 520 FOR ALL CATS.
7. CIRCLING CAT A MDA/HAA RAISED FROM 1540/530 TO 1560/551, CAT B AND C HAA RAISED 1 FOOT.
8. CIRCLING CAT D MDA/HAA LOWERED FROM 2000/990 TO 1980/971.
9. MISSED APPROACH CLIMB TO ALTITUDE RAISED FROM 1400 TO 1800.
10. ALTERNATE MISSED CLEARANCE LIMIT CHANGED FROM GOZZR LOM TO TROYY INT.
11. ADDED INOPERATIVE MALSR NOTES.
12. ADDED PROCEDURE NA FOR ARRIVALS AT SPENO ON V270 WESTBOUND.

REASONS:

1, 2, 3. 8260.54A L-V RNP PFAF FORMULA APPLIED.
4. NEW MISSED APPROACH PENETRATION AND 34:1 PENETRATION.
5. 34:1 PENETRATION AND IAW 8260.3B CHNG 20 TABLE 3.6 THRU 3.8.
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7. NEW CONTROLLING OBSTACLE AND THRE UTILIZED.
8. ACCURACY CODE ADJUSTMENT NO LONGER REQUIRED.
9. CLIMB TO ALTITUDE REACHED PRIOR TO END OF SECTION 1.
10. DECOMMISSIONING OF GOZZR LOM.
11. IAW 8260.19D PARA 854(M)3.
12. IAW 8260.19D PARA 805(G)2.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.29**

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.

ARINC PACKET - 424-18 - ILS

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAD KORHK6 IRSR  K6011090 IT                     IRSRN42160550W071533453     009870     NARWORCESTER RGNL

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   LAWRN K60    R     N42121170W071493407                      W0146     NAR           LAWRN
        SUSAEAENRT   RILOC K60    C     N42162456W072005646                      W0146     NAR           RILOC
        SUSAEAENRT   SPENO K60    C   B N42164855W072091470                      W0145     NAR           SPENO

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------
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                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------
        SUSAP KORHK6FI11   AGDM   010GDM  K6D 0V       IF                                        18000                0 NS
        SUSAP KORHK6FI11   AGDM   020RILOCK6EA0EY      TF                                  + 02900                    0 NS
        SUSAP KORHK6FI11   AGDM   030RILOCK6EA0EE AL   HF IRSRK6      2889006810881010PI   + 02800                    0 NS
        SUSAP KORHK6FI11   I      010SPENOK6EA0E  D    IF IRSRK6      28890130        PI   J 0280002800180000         0 NS
        SUSAP KORHK6FI11   I      020RILOCK6EA0E  F    CF IRSRK6      2889006810900062PI   H 0280002800        -300GDM   K6D 0 NS
        SUSAP KORHK6FI11   I      030RW11 K6PG0GY M    CF IRSRK6      2889001210900056PI     01024             -300         0 NS
        SUSAP KORHK6FI11   I      040         0  M     CA                   1088         + 01800                    0 NS
        SUSAP KORHK6FI11   I      050         0    R   VIY                  2300                                    0 NS
        SUSAP KORHK6FI11   I      060LAWRNK6EA0EY      CF GDM K6      1673023016730020D    + 03000                    0 NS
        SUSAP KORHK6FI11   I      070LAWRNK6EA0EE  L   HM                   3473T010     + 03000                    0 NS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------
        SUSAP KORHK6GRW11    0070011088 N42160239W071532687+0100    +027010098000004415OIIRSR1

                1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------
        SUSAP KORHK6IIRSR1   011090RW11 N42155756W0715150031088N42155838W0715315890296 08500548300W01504400976

                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
```

CITY AND STATE	ELEVATION: 1009 THRE: 980	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WORCESTER, MA	AIRPORT NAME: **WORCESTER RGNL**	**I-RSR**	**ILS OR LOC RWY 11, AMDT 23**	AMDT: **22**
				DATED: **12/22/2005**

QUALITY CHECKED

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:

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.

```
SUSAP KORHK6SGDM  K6D              0   1502400442524015003325                                                    M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1009 THRE: 980	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WORCESTER, MA	AIRPORT NAME: WORCESTER RGNL	I-RSR	ILS OR LOC RWY 11, AMDT 23	AMDT: 22
				DATED: 12/22/2005

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:

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.

ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	GDM	GDM	010		IF		FB					
	GDM	RILOC	020		TF		FO				AA 02900	
	GDM	RILOC	030	IAF	HF	L	FO		108.8()	T01.0	AA 02800	
		SPENO	010	FACF	IF		FB				AA 02800 GI 02800	
		RILOC	020	FAF	CF		FB		109.0()	006.2	GI 02800 GS 02800	
		RW11	030	MAP	CF		FO		109.0()	005.6	AT 01024	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		108.8()		AA 01800	
		050		VI	R	FB		230.0()			
	LAWRN	060		CF		FO		167.3()	002.0	AA 03000	
	LAWRN	070		HM	L	FO		347.3()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GDM	N423245.42	W0720329.48	N4232.757	W07203.491
	IRSR (DME)	N421605.50	W0715334.53	N4216.092	W07153.576
	LAWRN	N421211.70	W0714934.07	N4212.195	W07149.568
	RILOC	N421624.56	W0720056.46	N4216.409	W07200.941
	SPENO	N421648.55	W0720914.70	N4216.809	W07209.245
	RW11	N421602.39	W0715326.87	N4216.040	W07153.448
	IRSR (LOC)	N421557.56	W0715150.03	N4215.959	W07151.834

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW11	00980	44

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1009 THRE: 980	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WORCESTER, MA	AIRPORT NAME: WORCESTER RGNL	I-RSR	ILS OR LOC RWY 11, AMDT 23	AMDT: 22
				DATED: 12/22/2005

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
LOC STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.25

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.

ARINC PACKET - 424-18 - LOC

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        GDM   K6011060VDL  N42324542W072032948    N42324542W072032948W0140012801     NARGARDNER
        SUSAD KORHK6 IRSR  K6011090 IT                     IRSRN42160550W071533453     009870     NARWORCESTER RGNL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   LAWRN K60    R     N42121170W071493407                      W0146     NAR           LAWRN
        SUSAEAENRT   RILOC K60    C     N42162456W072005646                      W0146     NAR           RILOC
        SUSAEAENRT   SPENO K60    C   B N42164855W072091470                      W0145     NAR           SPENO

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORHK6AORH     0     070YHN42160170W071523220W015001009         1800018000C    MNAR    WORCESTER RGNL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORHK6FL11   AGDM   010GDM  K6D 0V       IF                                          18000                 0 NS
        SUSAP KORHK6FL11   AGDM   020RILOCK6EA0EY      TF                                  + 02900                       0 NS
        SUSAP KORHK6FL11   AGDM   030RILOCK6EA0EE AL   HF IRSRK6      288900681088T010PI  + 02800                       0 NS
        SUSAP KORHK6FL11   L      010SPENOK6EA0E  D    IF IRSRK6      28890130        PI  + 02800     18000                 0 NS
        SUSAP KORHK6FL11   L      020RILOCK6EA0E  F    CF IRSRK6      2889006810900062PI  + 02800                GDM   K6D 0 NS
        SUSAP KORHK6FL11   L      030RW11 K6PG0GY M    CF IRSRK6      2889001210900056PI    01024            -300          0 NS
        SUSAP KORHK6FL11   L      040         0  M     CA                     1088        + 01800                       0 NS
        SUSAP KORHK6FL11   L      050         0    R   VIY                    2300                                      0 NS
        SUSAP KORHK6FL11   L      060LAWRNK6EA0EY      CF GDM K6      1673023016730020D   + 03000                       0 NS
        SUSAP KORHK6FL11   L      070LAWRNK6EA0EE  L   HM                     3473T010    + 03000                       0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORHK6GRW11    0070011088 N42160239W071532687+0100    +027010098000004415 0IIRSR1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORHK6IIRSR1   011090RW11 N42155756W0715150031088N42155838W0715315890296 08500548300W01504400976

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
```

CITY AND STATE	ELEVATION: 1009 THRE: 980	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: 4
WORCESTER, MA	AIRPORT NAME: WORCESTER RGNL	I-RSR	ILS OR LOC RWY 11, AMDT 23	AMDT: 22
				DATED: 12/22/2005

QUALITY CHECKED

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:

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.

```
SUSAP KORHK6SGDM  K6D              0   1502400442524015003325                                                    M
```

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 1009 THRE: 980	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WORCESTER, MA	AIRPORT NAME: WORCESTER RGNL	I-RSR	ILS OR LOC RWY 11, AMDT 23	AMDT: 22
				DATED: 12/22/2005

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

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.25**

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.

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	GDM	GDM	010		IF		FB					
	GDM	RILOC	020		TF		FO				AA 02900	
	GDM	RILOC	030	IAF	HF	L	FO		108.8()	T01.0	AA 02800	
		SPENO	010	FACF	IF		FB				AA 02800	
		RILOC	020	FAF	CF		FB		109.0()	006.2	AA 02800	
		RW11	030	MAP	CF		FO		109.0()	005.6	AT 01024	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		108.8()		AA 01800	
		050		VI	R	FB		230.0()			
	LAWRN	060		CF		FO		167.3()	002.0	AA 03000	
	LAWRN	070		HM	L	FO		347.3()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GDM	N423245.42	W0720329.48	N4232.757	W07203.491
	IRSR (DME)	N421605.50	W0715334.53	N4216.092	W07153.576
	LAWRN	N421211.70	W0714934.07	N4212.195	W07149.568
	RILOC	N421624.56	W0720056.46	N4216.409	W07200.941
	SPENO	N421648.55	W0720914.70	N4216.809	W07209.245
	RW11	N421602.39	W0715326.87	N4216.040	W07153.448
	IRSR (LOC)	N421557.56	W0715150.03	N4215.959	W07151.834

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW11	00980	44

QUALITY CHECKED

CITY AND STATE	ELEVATION: **1009** THRE: **980**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WORCESTER, MA	AIRPORT NAME: **WORCESTER RGNL**	**I-RSR**	**ILS OR LOC RWY 11, AMDT 23**	AMDT: **22**
				DATED: **12/22/2005**

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.
FEEDER	GDM VOR/DME	RILOC INT/I-RSR	1. TOWER (25-000633)	422432.10N/0715703.90W	1859 (2C)	1000		2900
		5.48 DME	2. TERRAIN	423057.00N/0720248.00W	1368 (1400)		AS1500	2900
INTERMEDIATE	SPENO INT/I-RSR	RILOC INT/I-RSR	3. AAO	421900.00N/0720500.00W	1355 (4E)	500	AC98 AT847	2800
	11.65 DME	5.48 DME	4. TERRAIN	421900.00N/0720500.00W	1155 (1200)		AS1500	2700
	(IF/IAF)							
FINAL: ILS	RILOC INT/I-RSR	RW11				ASC	MA4	1184/204
	5.48 DME							
FINAL: LOC	RILOC INT/I-RSR	5.58 MILES AFTER	5. TREE	421634.83N/0715641.37W	1242 (2C)	250	SA-4	1500
	5.48 DME	RILOC INT/RSR						
		5.48 DME						
2. HOLD-IN-LIEU-OF-PT	RILOC	P-4	6. AAO	421718.00N/0721100.00W	1388 (4E)	1000	AT412	2800
			7. TERRAIN	421836.00N/0715518.00W	1230 (1200)		AS1500	2700
3. MISSED APPROACH MAP:	DA / 5.58 MILES	LAWRN INT/GDM	8. TREE (KORHT0262)	421608.27N/0715343.95W	1026 (1A)	ASC		3000
	AFTER RILOC	23.00 DME	9. TOWER (25-000163)	421327.00N/0715252.00W	1210 (5D)	1000		2300
ELEV:	1017/1250		10. TERRAIN	421530.00N/0715433.00W	1090 (1100)		AS1500	2600

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	551	11. TREE (KORHT1042)	421709.35N/0715418.21W	1247 (1A)	300	1560
CATEGORY B	1.5 NM		450		631	12. TREE (KORHT1173)	421735.87N/0715351.96W	1270 (1A)	300	XP70	1640
CATEGORY C	1.7 NM		450		711	13. POLE (25-021974)	421748.58N/0715350.74W	1402 (1B)	300		1720
CATEGORY D	2.3 NM		550		971	14. TWR (KORHT1751)	421818.77N/0715349.32W	1667 (1A)	300		1980
CATEGORY E	4.5 NM		550								

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: GDM VOR/DME

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
060-330	AAO	128/ 08.3	2215 (6A)	3300					
330-060	AAO	007/ 19.1	3369 (6A)	4400					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
WORCESTER, MA	ELEVATION: 1009 AIRPORT NAME: WORCESTER RGNL	I-RSR	ILS OR LOC RWY 11, AMDT 23	ANE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
BDL APP CON ORH TOWER	N W S / F A A / A / C — OTHER: ASOS	SOURCE: KORH / KBED DISTANCE: 0 / 28.79 HOURS REMOTE OPERATION: 24 / 24
SATISFACTORY ON:		
X V H F X U H F H F	LOCATION: KORH	ADJUSTMENT: 0 / 189

4. MONITOR STATUS		
PRIMARY NAVAID: I-RSR		
MONITOR POINT: ORH ATCT		
HRS OPTN:	CAT 1	TOWER OPEN
	CAT 3	TOWER CLOSED

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	MALSR 11 (PCL)
X	HIRL 11 (PCL), 29 (PCL)
X	MIRL 33 (PCL), 15 (PCL)
X	REIL 33, 29 (PCL), 15
X	TDZ 11 (PCL)
X	C/L 11 (PCL), 29 (PCL)
X	OTHER (SPECIFY) PAPI-4L 33, 29, 15

6. RUNWAY MARKINGS	BASIC BSC-F 15	
	ALL WEATHER PIR-F 11, 29	
	INSTRUMENT NPI-F 33	
7. RUNWAY VISUAL RANGE	APPROACH 11, 29	
	MIDFIELD	
	ROLL OUT 11, 29	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 980.0
	DISTANCE FROM RWY: 850	ELEV GP ANTENNA: 979.9
		THRESHOLD CROSSING HEIGHT: 44.4

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 (NICHOLAS K. JACKSON)	DATE: 10/04/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VGSI DATA: NONE

RASS PRESSURE PATTERNS SAME
KORH 1009.0, KBED 132.6
RA = 188.9.
SEE ATTACHED AIRSPACE LETTER.

KORH AND KBED ARE ON SERVICE A

80' VEGETATION UTILIZED PER PREVIOUS PROCEDURE

INTERMEDIATE/MISSED APPROACH CONTROLLING OBSTACLE AND TERRAIN THE SAME FOR BOTH SEGMENTS.

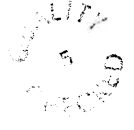
TERPS, VOLUME 1 "VISUAL PORTION OF FINAL" PENETRATIONS:

34:1
1026 TREE (KORHT0262) 421608.27N-0715343.95W (13.04)
1146 TREE (KORHT0482) 421616.93N-0715437.97W (12.18)
1135 TREE (KORHT0464) 421615.63N-0715434.73W (8.59)
1136 TREE (KORHT0466) 421612.85N-0715435.61W (8.20)
1155 TREE (KORHT0514) 421616.93N-0715444.21W (7.42)
1149 TREE (KORHT0500) 421613.94N-0715441.83W (7.26)
1145 TREE (KORHT0493) 421613.09N-0715440.19W (7.05)
1143 TREE (KORHT0492) 421615.60N-0715439.90W (5.19)
1145 TREE (KORHT0510) 421612.60N-0715443.22W (.46)

ALTERNATE MISSED HOLDING NOT PART OF ENROUTE STRUCTURE.

XP: TO RETAIN CURRENT MINIMA

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 3000
9. TOWER (25-000163) 421327.00N/0715252.00W 1210 (5D)
1000 2300
10. TERRAIN 421530.00N/0715433.00W 1090 (1100) AS1500
2600



RADIO FIX AND HOLDING DATA RECORD

NAME: LAWRN **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 421211.70N/0714934.07W **TYPE:** 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	DIST FROM FAC FEET	MRA	MAA
1	GARDNER	GDM	VOR/DME	L	167.26	153.26	23.00	23.00		2500	17500
2	BOSTON	BOS	VOR/DME	H	272.34	256.34		38.39		2500	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	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S	GDM	VORTAC	167.26	347.26	L	1	4	2700	4000	6	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (25-000622)	420313.00N/0714904.00W	1549	5D
1	310	COMMUNICATION TWR (KORHT1745)	421833.99N/0715411.29W	1681	1A

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 11	KORH	WORCESTER	MA (US)

REMARKS:
GARDNER (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	KORH	WORCESTER	MA (US)
IAP	VOR/DME RWY 33	1, 2	1	KORH	WORCESTER	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
UPDATED FIX USE
ADDED PRECIPITOUS TERRAIN REMARK
MOVED HOLDING LIMITED REMARK TO RESTRICTIONS
ADDED DIST FROM FACS
ADDED CIH PATTERN

DEVELOPED BY: **DATE:** 09/13/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (NICHOLAS JACKSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BDL
OTHER: ORH TOWER

ORIGINAL
5

RADIO FIX AND HOLDING DATA RECORD

NAME: RILOC **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 421624.56N/0720056.46W **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	DIST FROM FAC FEET	MRA	MAA
1	WORCESTER	I-RSR	LOC/DME		288.84	273.84	5.48	6.78	41175	2800	5400
2	GARDNER	GDM	VOR/DME	L	187.39	173.39		16.45		2800	5400

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	W		WP	288.76	108.76	L		4	3000	6000	5	6
2	W	I-RSR	LOC/DME	288.84	108.84	L	1		2800	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	421903.00N/0715527.00W	1405	4E
2	200	AAO	421718.00N/0721100.00W	1388	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED
8260.54A L-V RNP PFAF FORMULA APPLIED
I-RSR DME COORDINATES: 421605.50N/0715334.53W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 11	1, 2	2	KORH	WORCESTER	MA (US)
IAP	RNAV (GPS) RWY 11			KORH	WORCESTER	MA (US)
IAP	RNAV(GPS) RWY 29		1	KORH	WORCESTER	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
UPDATED FIX USE
ADDED PRECIPITOUS TERRAIN REMARK
MOVED HOLDING LIMITED REMARK TO RESTRICTIONS
REMOVED KORH R11 AS FAC 3
PAT 1 RAD/CRS/BRG AND CRS INBOUND CHANGED FROM 288.84/108.84 TO 288.76/108.76
FAC 2 MAG/TRUE BRG CHANGED FROM 187.08/173.08 TO 187.39/173.39
FAC 1 DME CHANGED FROM 5.39 TO 5.48
ADDED DIST FROM FACS
FIX MOVED 545.47 FEET WEST, COORDINATES UPDATED

DEVELOPED BY: **DATE:** 09/26/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (NICHOLAS JACKSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BDL
OTHER: ORH TOWER

QUALITY CHECKED 5

RADIO FIX AND HOLDING DATA RECORD

NAME: SPENO **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 421648.55N/0720914.70W **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	DIST FROM FAC FEET	MRA	MAA
1	WORCESTER	I-RSR	LOC/DME		288.84	273.84	11.65	12.95		3000	5400
2	GARDNER	GDM	VOR/DME	L	209.00	195.00	16.50	16.50		3000	17500
3	CHESTER	CTR	VOR/DME	L	103.82	090.82	35.43	35.43		18000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CTR	VOR/DME	R-104	36	18000	45000

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

REMARKS:
DEPICT FAC 3 (CTR) ON HIGH ENROUTE CHARTS PER ATC REQUEST FOR VECTORING AND AUTOMATION REQUIREMENTS.
I-RSR DME COODINATES: 421605.50N/0715334.53W

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	LOGAN			KBOS	BOSTON	MA (US)
DP	REVSS (RNAV)			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
EN ROUTE	V229	1, 2				(US)
IAP	RNAV (GPS) RWY 32			KORE	ORANGE	MA (US)
IAP	ILS OR LOC RWY 11	1, 2		KORH	WORCESTER	MA (US)
IAP	RNAV (GPS) RWY 11			KORH	WORCESTER	MA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
REMOVED FAC 4 (RS LOM) DUE TO FACILITY DECOMISSIONING

DEVELOPED BY: **DATE:** 10/04/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (NICHOLAS JACKSON)

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: TROYY **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 420449.55N/0714742.34W **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	DIST FROM FAC FEET	MRA	MAA
1	PUTNAM	PUT	VOR/DME	H	030.28	016.28	7.81	7.81		3000	17500
2	PROVIDENCE	PVD	VORTAC	H	336.64	322.64		26.91		3000	17500

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	NE	PUT	VOR/DME	030.28	210.28	L	1		3000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (25-000622)	420313.00N/0714904.00W	1549	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 PER ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 11 (ALT MISSED)	1, 2		KORH	WORCESTER	MA (US)
IAP	RNAV (GPS) RWY 33			KORH	WORCESTER	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
UPDATED FIX USE
ADDED FACS 1 AND 2
ADDED HOLDING PAT 1
ADDDED PRECIPITOUS TERRAIN REMARK
ADDED HOLDING LIMITED REMARK

DEVELOPED BY: **DATE:** 10/24/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (NICHOLAS JACKSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BDL ATCT, ORH ATCT
OTHER:

QUALITY 5 CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: GARDNER VOR/DME **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 423245.42N/0720329.48W **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	DIST FROM FAC FEET	MRA	MAA
1	GARDNER	GDM	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	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	GDM	VOR/DME	111.96	291.96	R	1		3500	8000	4	8
2	NW	GDM	VOR/DME	298.00	118.00	L	1-1 1/2		4000	17500	4	16
3	W	GDM	VOR/DME	276.81	096.81	R	1		3000	6000	4	5
4	NW	GDM	VOR/DME	293.78	113.78	L	1-1 1/2		7000	29000	8	22
5	NW		WP	295.37	115.37	L		10	13000	18000	15	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	422930.00N/0715324.00W	2143	4E
2	200	AAO	423333.00N/0720909.00W	1595	4E
3	200	AAO	423333.00N/0720909.00W	1595	4E
3	310	AAO	422921.00N/0715312.00W	2215	4E
4	230	AAO	423333.00N/0720909.00W	1595	4E
5	265	AAO	422921.00N/0715312.00W	2215	4E

REASON FOR NONSTANDARD HOLDING:
PAT 2 ATC REQUEST
PAT 4 ATC REQUEST
PAT 5 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	VOR-A	KGDM	GARDNER	MA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.
PAT 5-ATC REQUESTED 10NM LEG LENGTH.
CHART PAT 2 ENROUTE LOW.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRADLEY			KBDL	WINDSOR LOCKS	CT (US)
DP	TAKEOFF MINIMUMS			KORE	ORANGE	MA (US)
DP	TAKEOFF MINIMUMS			KAFN	JAFFREY	NH (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKER			KPSM	PORTSMOUTH	NH (US)
EN ROUTE	V106					(US)
EN ROUTE	V14		2			(US)
EN ROUTE	V151					(US)
EN ROUTE	V2		2			(US)
EN ROUTE	V229					(US)
EN ROUTE	V39					(US)
EN ROUTE	V431					(US)
EN ROUTE	ZBW		2, 4			MA (US)
IAP	ILS OR LOC RWY 29			KBED	BEDFORD	MA (US)
IAP	NDB RWY 29			KBED	BEDFORD	MA (US)
IAP	ILS OR LOC RWY 27			KBOS	BOSTON	MA (US)
IAP	ILS OR LOC/DME RWY 15R			KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 15R			KBOS	BOSTON	MA (US)
IAP	VOR/DME RWY 15R			KBOS	BOSTON	MA (US)
IAP	NDB RWY 20			KFIT	FITCHBURG	MA (US)
IAP	NDB-A			KFIT	FITCHBURG	MA (US)
IAP	RNAV (GPS) RWY 14			KFIT	FITCHBURG	MA (US)
IAP	RNAV (GPS) RWY 20			KFIT	FITCHBURG	MA (US)
IAP	VOR-A		3	KGDM	GARDNER	MA (US)
IAP	VOR OR GPS-A			K0B5	MONTAGUE	MA (US)
IAP	LOC RWY 35			KOWD	NORWOOD	MA (US)
IAP	NDB RWY 1		1	KORE	ORANGE	MA (US)
IAP	NDB RWY 32		1	KORE	ORANGE	MA (US)
IAP	VOR-A			KORE	ORANGE	MA (US)
IAP	VOR/DME-B			K3B0	SOUTHBRIDGE	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 20		KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	ILS OR LOC RWY 11		KORH	WORCESTER	MA (US)
IAP	ILS OR LOC RWY 29		KORH	WORCESTER	MA (US)
IAP	RNAV (GPS) RWY 33		KORH	WORCESTER	MA (US)
IAP	VOR/DME RWY 33		KORH	WORCESTER	MA (US)
IAP	VOR OR GPS-A		KAFN	JAFFREY	NH (US)
IAP	ILS OR LOC RWY 2		KEEN	KEENE	NH (US)
IAP	RNAV (GPS) RWY 2		KEEN	KEENE	NH (US)
IAP	VOR RWY 2		KEEN	KEENE	NH (US)
IAP	ILS OR LOC RWY 6		KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 6		KMHT	MANCHESTER	NH (US)
STAR	GRAYM		KBED	BEDFORD	MA (US)
STAR	GRAYM		KBVY	BEVERLY	MA (US)
STAR	GARDNER	4	KBOS	BOSTON	MA (US)
STAR	QUABN (RNAV)	5	KBOS	BOSTON	MA (US)
STAR	GRAYM		KFIT	FITCHBURG	MA (US)
STAR	GRAYM		KLWM	LAWRENCE	MA (US)
STAR	POPPP		KMHT	MANCHESTER	NH (US)
STAR	PONEE		KISP	NEW YORK	NY (US)
STAR	PONEE		KFOK	WESTHAMPTON BEACH	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
1. ADDED PAT 5.
2. ADDED REMARK, PAT 5-ATC REQUESTED 10NM LEG LENGTH.
3. CHANGED PAT 4 MIN ALTITUDE/TEMPLATE FROM 10000/9 TO 7000/8.
4. CHANGED PAT 4 CRS INBOUND FROM 114.00 TO 113.78.
5. ADDED REMARK, CHART PAT 2 ENROUTE LOW.
6. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/27/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

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

SIGNATURE:

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

QUALITY 5 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **WORCESTER** STATE: **MA**

AIRPORT NAME: **WORCESTER RGNL** ID: **KORH**

PROCEDURE: **ILS OR LOC RWY 11** AMDT: **23**

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 **3.69**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.02**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **093.84**
4. High Terrain in **FINAL** segment containing 1000' point **1158**
5. Distance from **THLD** to 1500' point **5.38**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.38**
7. True Course of **FINAL** segment containing 1500' point **093.84**
8. High Terrain in **FINAL** segment containing 1500' point **1158**
9. Threshold Coordinates (if straight-in) ... **421602.39N** / **0715326.87W**
10. ARP Coordinates ..... **421601.70N** / **0715232.20W**
11. Runway Approach End and distance furthest from ARP.....RWY **11**
    Distance **.67** NM
12. FAF Coordinates .....
    (Click to Select) **421624.56N** / **0720056.46W**

REMARKS: Approach/Drawing attached.

CANCEL

RADIO FIX AND HOLDING DATA RECORD

NAME: GOZZR LOM **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 421535.55N/0714407.00W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	GOZZR	EK	LOM								17500

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

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	EK	LOM	108.71	288.71	L	1		2700	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (22-0157)	422009.00N/0714255.00W	2049	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

REMARKS:
HOLDING LIMITED TO ESTABLISHED PATTERN
HOLDING PATTERN OBSTACLE 22-0157, 6805.61 FEET INTO THE SECONDARY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	WORCESTER REGIONAL - ILS OR LOC RWY 11 (PAT 1)			KORH	WORCESTER	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 12/22/2005

REASON FOR REVISION:
AMENDED LOCATION OF NAVAID, ADDED COUNTRY
DELETED FAC 2/3, DISTANCE FROM FACILITY AND LEAST DIVERGENCE ANGLE
AMENDED AIR/GROUND COMMUNITACTIONS AND AUTHORIZED USE OF THIS FIX
DELETED HOLDING PATTERNS VIA I-EKW AND WP
UPDATED FIX USE
DELETED 175 KIAS PATTERN AND AMENDED EK HOLDING PATTERN TEMPLATE
DELETED E/R CHART PUBLICATION
AMENDED EK MINIMUM HOLDING PATTERN ALTITUDE AND CONTROLLING OBSTRUCTION

DEVELOPED BY: **DATE:** **OFFICE:** **NAME:**

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: BOS
ARTCC: ZBW
ATC FACILITY: BDL
OTHER: ORH TOWER

QUALITY 5 CHECKED

CANCELLED
BY Nicholas R. Jackson
DATE 11/16/2011