Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 11/30/2010	Task #: 2010113023470001001	Request #: 20101130234700
Procedure: ILS OR LOC RWY 1 AMDT 2		Airport ID: KAMW	Airport: AMES MUNI		Reimbursable #:
City: AMES	ST: IA	GPS #:		Estimated Chart Date: 07/26/2012	FICO #: 1082681
Fac ID: EEE	Fac. Type: ILS	Specialist: MARK BURTZ			

Procedure Review

P1

	Rec'd	Rel'd	Full Name	Comments
Lead:	11/22/2011	05/09/2012	DAVID DANNER	
QA:	05/09/2012	05/14/2012	SCOTT BEARD	
Liaison:	05/14/2012		Alfonso	RESUBMIT 5/14/12

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

Pkg 1 of 1

AMES, IA AMES MUNI (KAMW) ILS OR LOC RWY 1, AMDT 2 ENROUTE-YES FC: 5.29.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): EIEIO-INT, REV 5; EMTUW-INT, ORIG; MERLE (EE) LOM-INT, REV 4; SHODR-INT, REV 1; ZISTA-INT, ORIG.

CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.9568:

LOC I-EEE	APP CRS	Rwy ldg	5701
110.7	014°	THRE	956
		Apt Elev	956

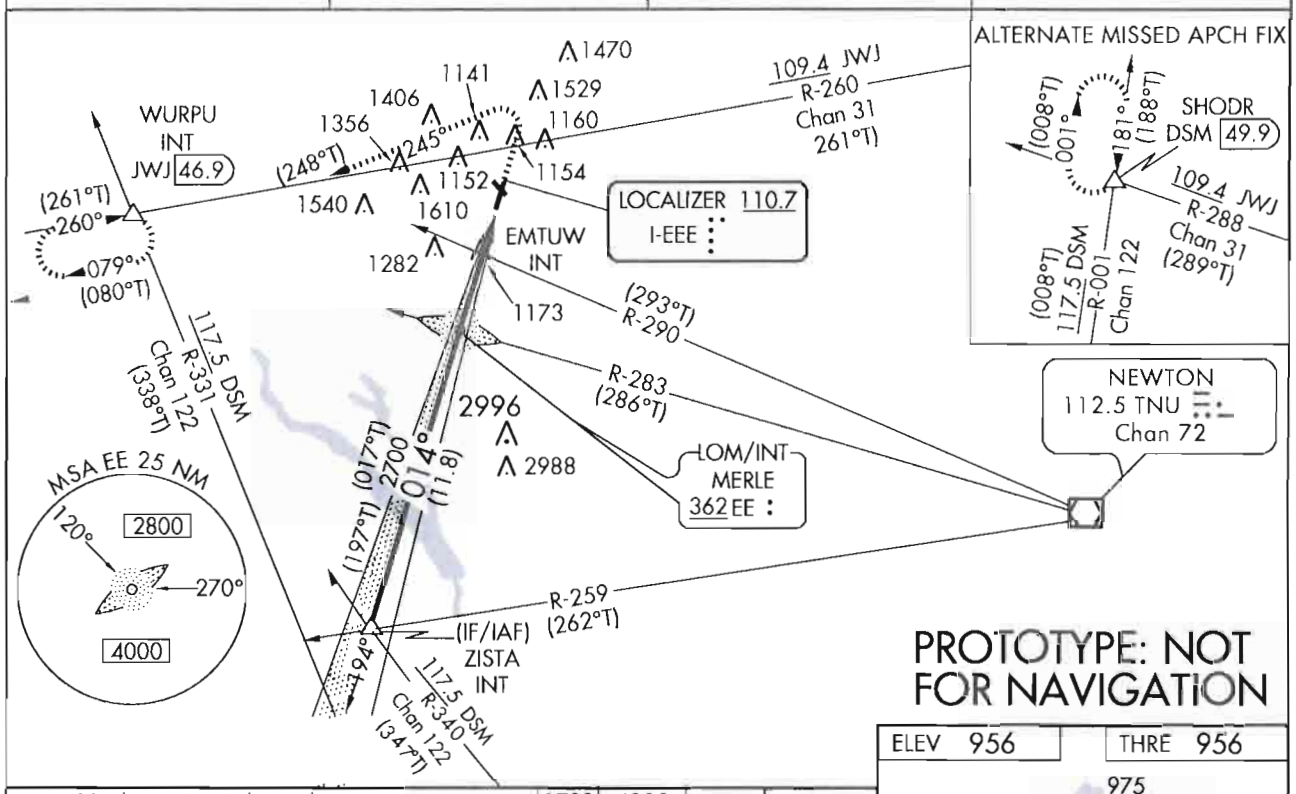
ILS or LOC RWY 1
AMES MUNI (AMW)

Visibility reduction by helicopters NA. When local altimeter setting not received, use Ankeny altimeter setting and increase all DA 49 feet and all MDA 60 feet; and increase S-ILS 1 all Cats visibility and S-LOC 1 Cats C/D visibility, Circling Cats B/C/D visibility ¼ mile, EMTUW fix minimums increase S-LOC 1 Cats C/D visibility, and Circling Cat C visibility ⅛ mile. For inop MALSR, increase S-LOC 1 Cats A/B visibility to 1 mile. EMTUW fix minimums, increase S-LOC 1 Cats A/B visibility to 1 mile and Cats C/D visibility to 1⅜ mile. For inop MALSR, when using Ankeny altimeter setting, increase S-LOC 1 Cat A visibility to 1 mile, Cats C/D to 2 miles. EMTUW Fix minimums, increase S-LOC 1 Cats A/B visibility to 1 mile and Cats C/D to 1⅜.

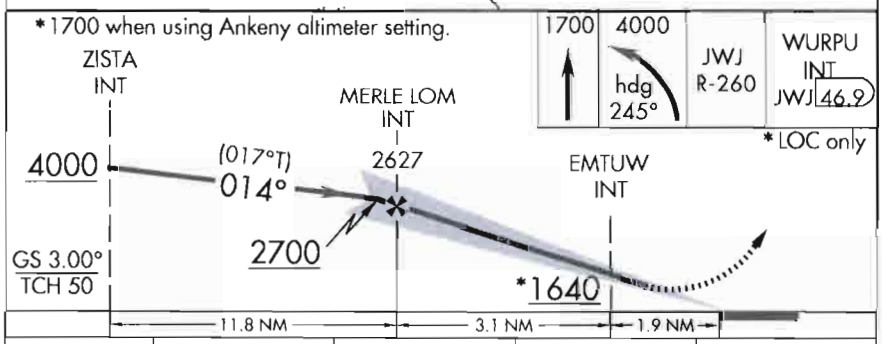
MALSR

MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 on heading 245°and JWJ VOR/DME R-260 to WURPO INT/JWJ 46.9 DME and hold.

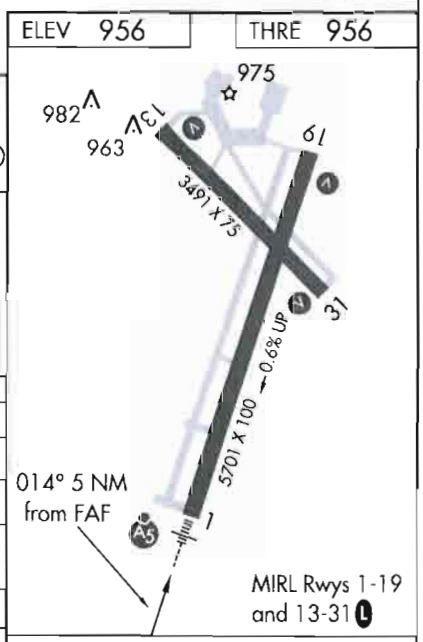
ASOS	DES MOINES APP CON	CLNC DEL	UNICOM
132.025	123.9 307.15	126.0	122.7 (CTAF)



PROTOTYPE: NOT FOR NAVIGATION



CATEGORY	A	B	C	D
S-ILS 1	1156-½ 200 (200-½)			
S-LOC 1	1640-¾ 684 (700-¾)		1640-1½ 684 (700-1½)	
CIRCLING	1640-1 684 (700-1)		1640-2 684 (700-2)	1640-2¼ 684 (700-2¼)
EMTUW FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-LOC 1	1440-¾ 484 (500-¾)		1440-1 484 (500-1)	
CIRCLING	1440-1 484 (500-1)		1460-1½ 504 (600-1½)	1520-2 564 (600-2)



FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ELMWOOD	City : MARSHALLTOWN	Ident : JWJ	State : IA
Type/Class : L-VOR	Frequency : M109.4	Reference No.: 12052302	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 960414-002	260	0	47	40	154

Requirement: WURPU-NEW FIX ON V505

Signature: baker johnnie	Routing Symbol:	Date: 05/05/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960414-002	260	0	47	40	154	APPROVE

Requirement/Remarks: WURPU-NEW FIX ON V505APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: NASSR NASHAAT	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960414-002	260	0	47	40	154	APPROVE

Requirement/Remarks: WURPU-NEW FIX ON V505APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960414-002	260	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ELMWOOD	City : MARSHALLTOWN	Ident : JWJ	State : IA
Type/Class : DME	Frequency : M992	Reference No.: 12052303	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 960415-002	260	0	47	40	154

Requirement: WURPU-NEW FIX ON V505.

Signature: baker johnnie	Routing Symbol:	Date: 05/05/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960415-002	260	0	47	40	154	APPROVE

Requirement/Remarks: WURPU-NEW FIX ON V505.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: NASSR NASHAAT	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960415-002	260	0	47	40	154	APPROVE

Requirement/Remarks: WURPU-NEW FIX ON V505.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960415-002	260	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ELMWOOD	City : MARSHALLTOWN	Ident : JWJ	State : IA
Type/Class : L-VOR	Frequency : M109.4	Reference No.: 12052304	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 960414-003	260	0	57	40	154

Requirement: WURPU-NEW FIX ON V505 (TO SUPPORT HOLDING PATTERN).

Signature: baker johnnie	Routing Symbol:	Date: 05/05/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960414-003	260	0	57	40	154	APPROVE

Requirement/Remarks: WURPU-NEW FIX ON V505 (TO SUPPORT HOLDING PATTERN).APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: NASSR NASHAAT	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960414-003	260	0	57	40	154	APPROVE

Requirement/Remarks: WURPU-NEW FIX ON V505 (TO SUPPORT HOLDING PATTERN).APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960414-003	260	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ELMWOOD	City : MARSHALLTOWN	Ident : JWJ	State : IA
Type/Class : DME	Frequency : M992	Reference No.: 12052305	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 960415-003	260	0	57	40	154

Requirement: WURPU-NEW FIX ON V505 (TO SUPPORT HOLDING PATTERN).

Signature: baker johnnie	Routing Symbol:	Date: 05/05/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960415-003	260	0	57	40	154	APPROVE

Requirement/Remarks: WURPU-NEW FIX ON V505 (TO SUPPORT HOLDING PATTERN).APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: NASSR NASHAAT	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960415-003	260	0	57	40	154	APPROVE

Requirement/Remarks: WURPU-NEW FIX ON V505 (TO SUPPORT HOLDING PATTERN).APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 05/08/2012

Expanded Service Volume Data: (FIFO)

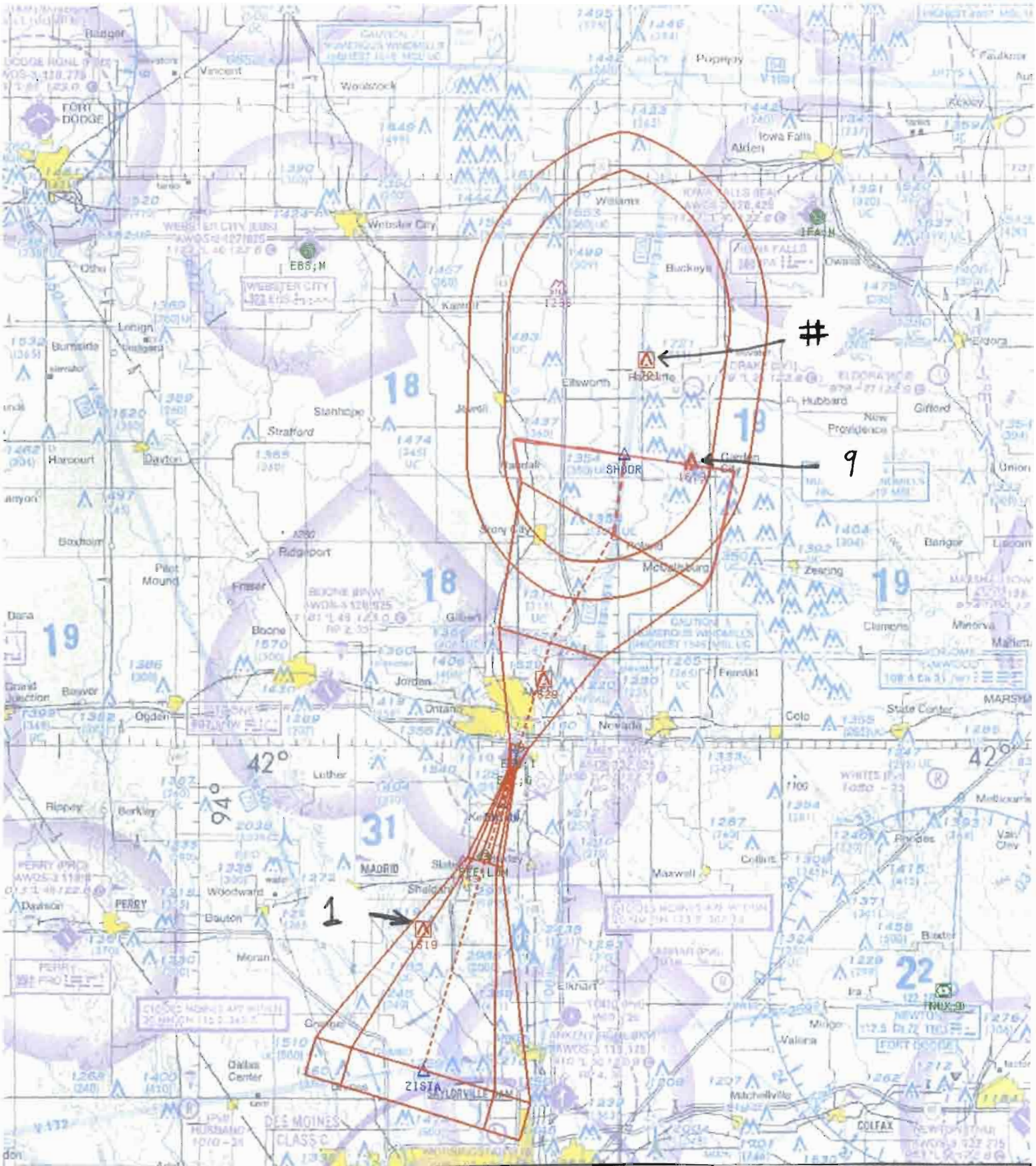
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 960415-003	260	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

NM	7	14	21	28	35	42	49
FT	42000	84000	126000	168000	210000	252000	294000

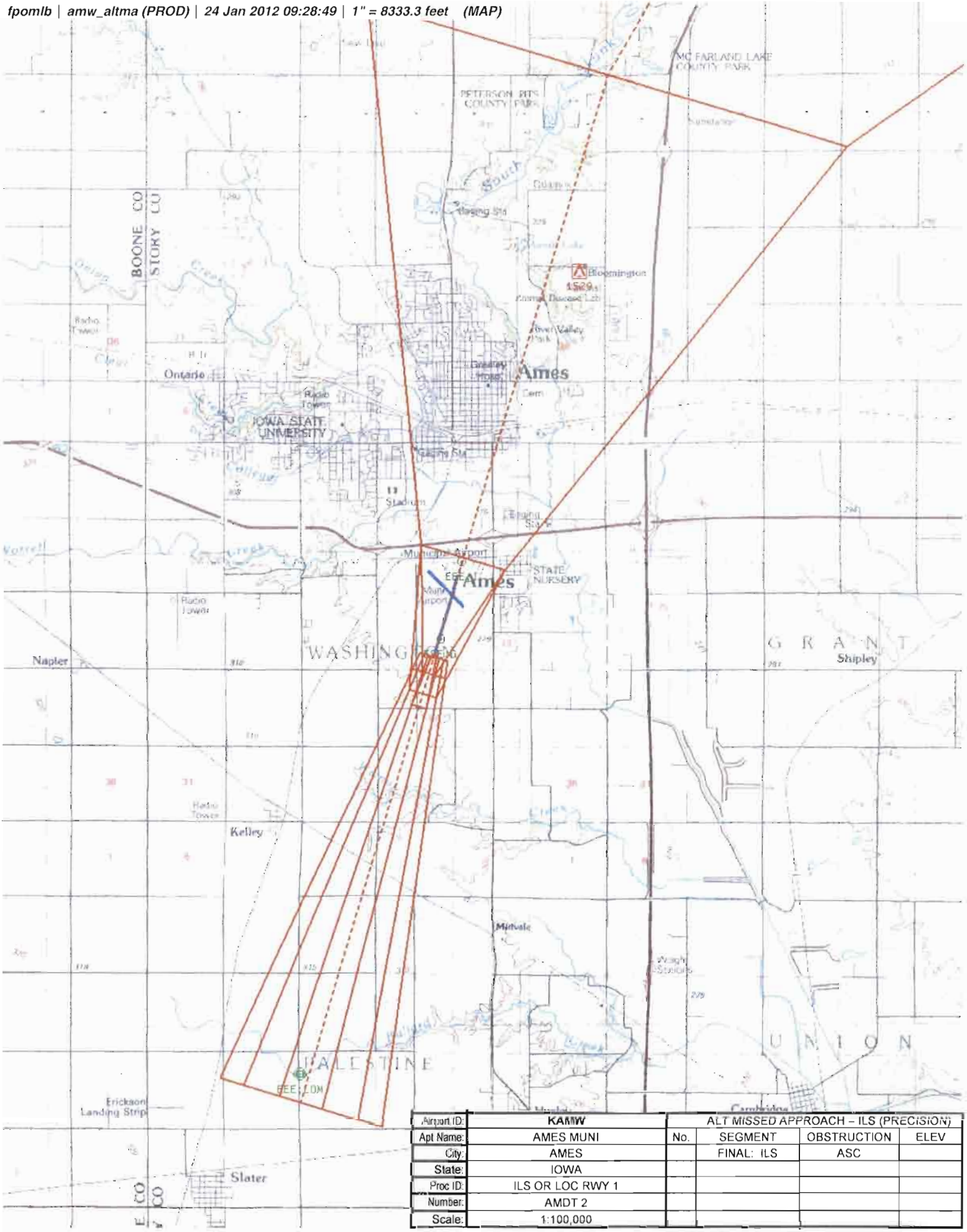
fpomlb | amw_altma (PROD) | 6 Feb 2012 11:17:08 | 1" = 41666.7 feet (MAP)


#
9
1
SHOOR
1519
ZISTA
42°
94°
18
19
31
22
EBS;M
FAIN
FORT DODGE
Iowa Falls
Alden
Webster City
Ellsworth
Hubbard
New Providence
Gilbert
Boone
Ogden
Jordan
Ontario
Nevada
Colo
State Center
Maxwell
Elkhart
Madrid
Perry
Dallas Center
Adel
Van Meter
DeSoto
Colfax
Mitchellville
Valeria
Minerva
Clemons
Zearing
Ridgeport
Stanhope
Stratford
Harcourt
Dayton
Boxholm
Pilot Mound
Fraser
Burnside
Lehigh
Dana
Grand Junction
Bayard
Rippey
Berkeley
Woodward
Bouton
Moran
Granger
Redfield
Bagley
Vincent
Woolstock
Williams
Buckeye
Kamrar
Stony City
Gilbert
Luther
Slater
Sheldahl
Van Cleve
Melbourne
Bondurant
Mingo
Baxter
Ira
Owasa
Eldora
Gifford
Union
Bangor
Lisbon
Malaga
Mallard
Fraser
Boone
Jordan
Ontario
Nevada
Colo
Maxwell
Elkhart
Granger
Dallas Center
Adel
Van Meter
DeSoto
Colfax
Mitchellville
Valeria
Mingo
Baxter
Ira
Clemons
Minerva
Zearing
McCallsburg
Ellsworth
Hubbard
New Providence
Gilbert
Stanhope
Ridgeport
Fraser
Boone
Jordan
Ontario
Nevada
Colo
State Center
Maxwell
Elkhart
Madrid
Perry
Woodward
Bouton
Moran

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpomlb | amw_altma (PROD) | 24 Jan 2012 09:28:49 | 1" = 8333.3 feet (MAP)

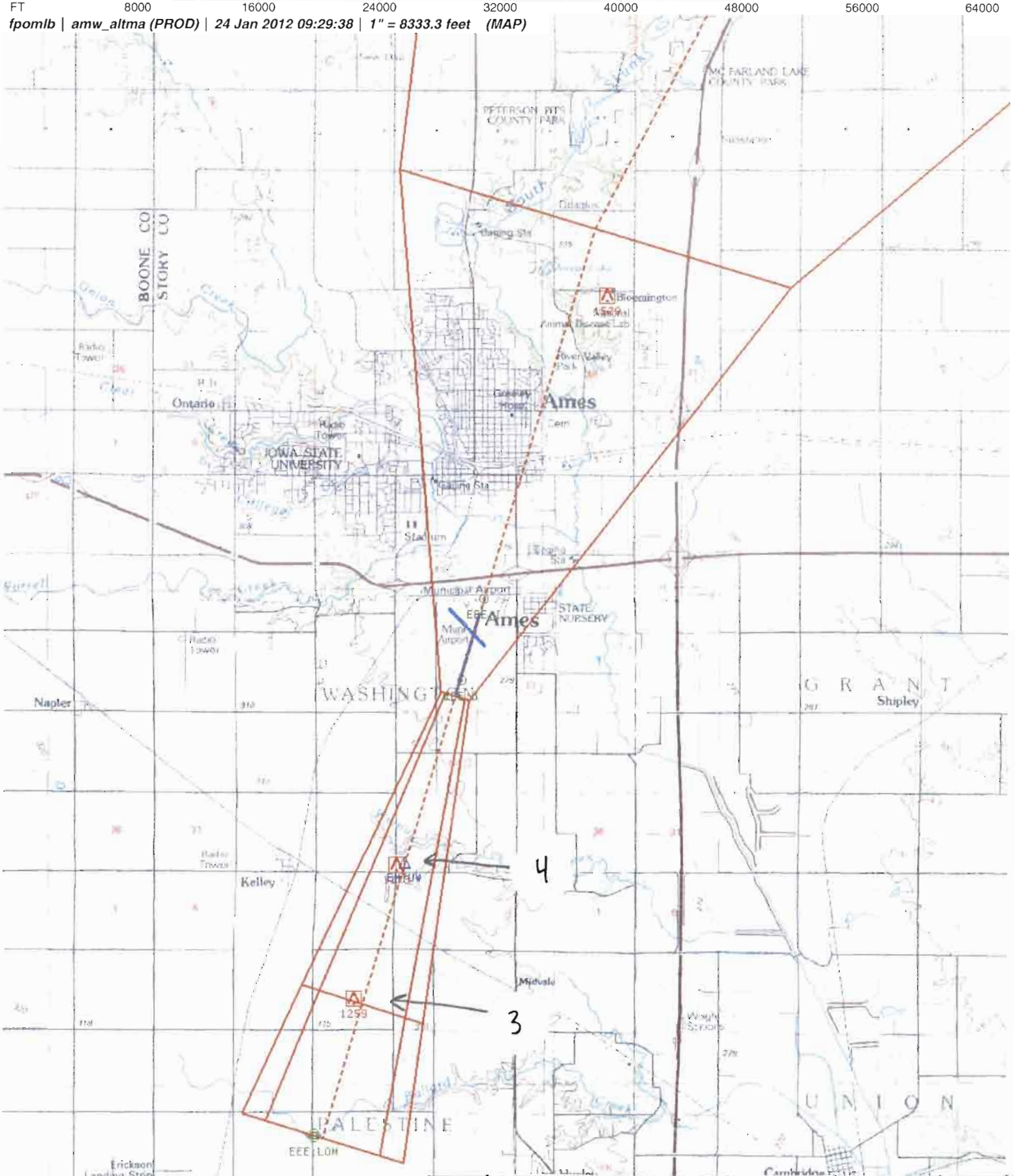


Airport ID:	KAMW	ALT MISSED APPROACH – ILS (PRECISION)			
Apt Name:	AMES MUNI	No.	SEGMENT	OBSTRUCTION	ELEV
City:	AMES		FINAL: ILS	ASC	
State:	IOWA				
Proc ID:	ILS OR LOC RWY 1				
Number:	AMDT 2				
Scale:	1:100,000				

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpomlb | amw_altma (PROD) | 24 Jan 2012 09:29:38 | 1" = 8333.3 feet (MAP)

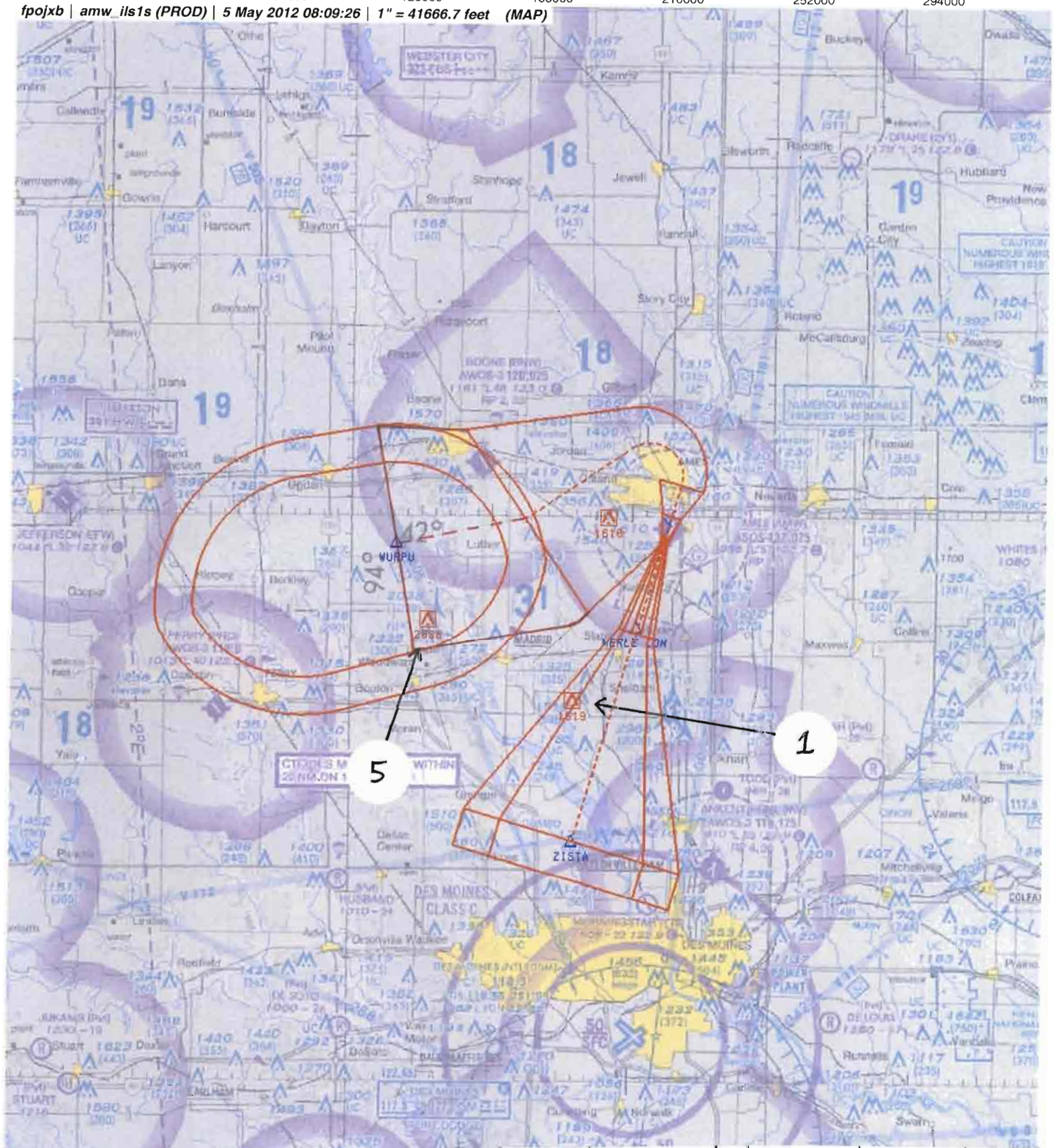


Airport ID:	KAMW	ALT MISSED APPROACH–LOC (NON-PRECISION)			
Apt Name:	AMES MUNI	No.	SEGMENT	OBSTRUCTION	ELEV
City:	AMES	3	FINAL: LOC	AAO	1259
State:	IOWA	4	FINAL: LOC STEP	ELEV (19-000852)	1173
Proc ID:	ILS OR LOC RWY 1				
Number:	AMDT 2				
Scale:	1:100,000				

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpojxb | amw_ils1s (PROD) | 5 May 2012 08:09:26 | 1" = 41666.7 feet (MAP)

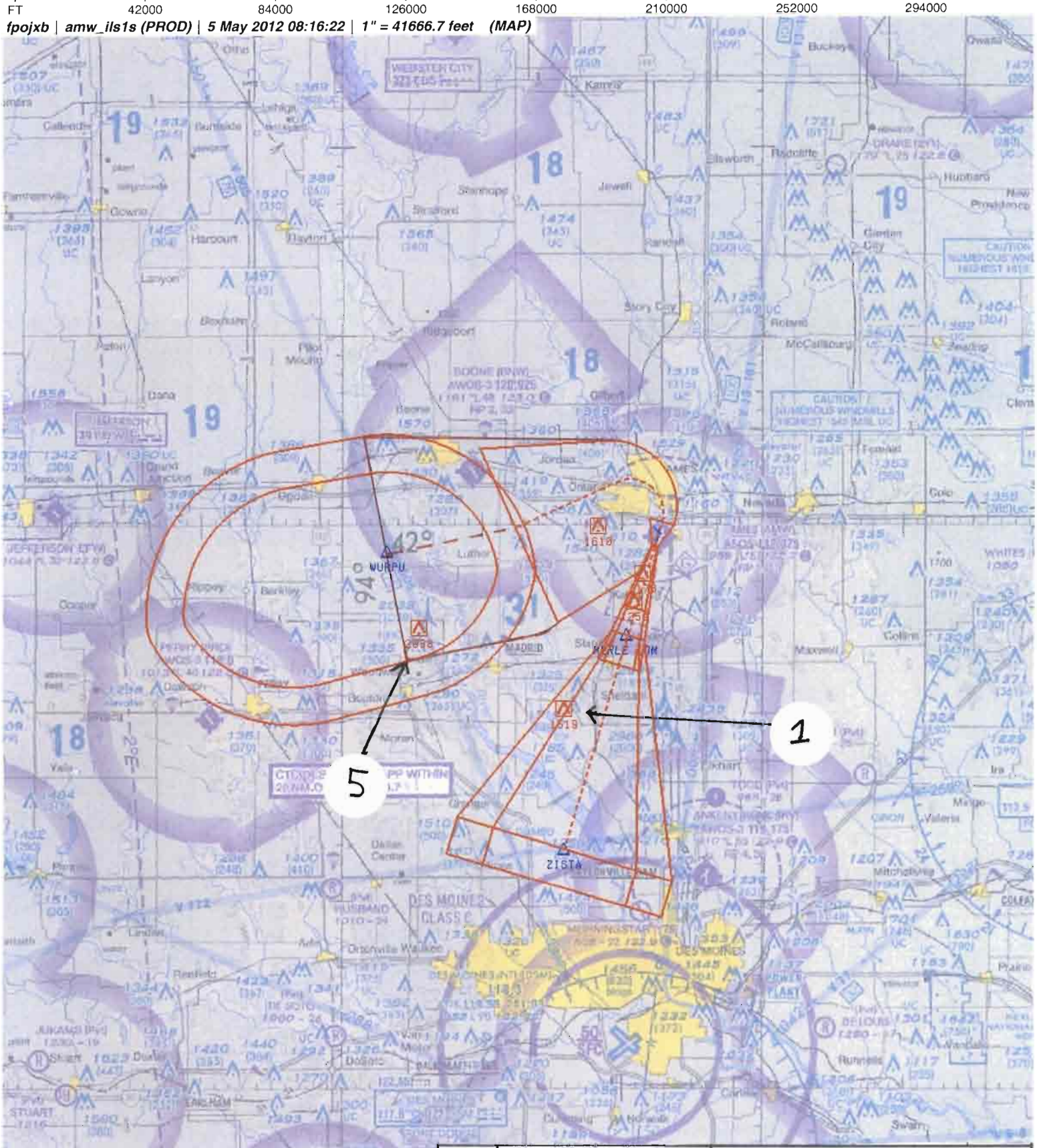


Airport ID:	KAMW	ILS (PRECISION)			
Apt Name:	AMES MUNI	No.	SEGMENT	OBSTRUCTION	ELEV
City:	AMES	1	INTERMEDIATE	TWR (19-001145)	1519
State:	IOWA	5	MISSED APPCH	TWR (19-000837)	2038
Proc ID:	ILS OR LOC RWY 1	5	HOLDING	TWR (19-000837)	2038
Number:	AMDT 2				
Scale:	1:500,000				

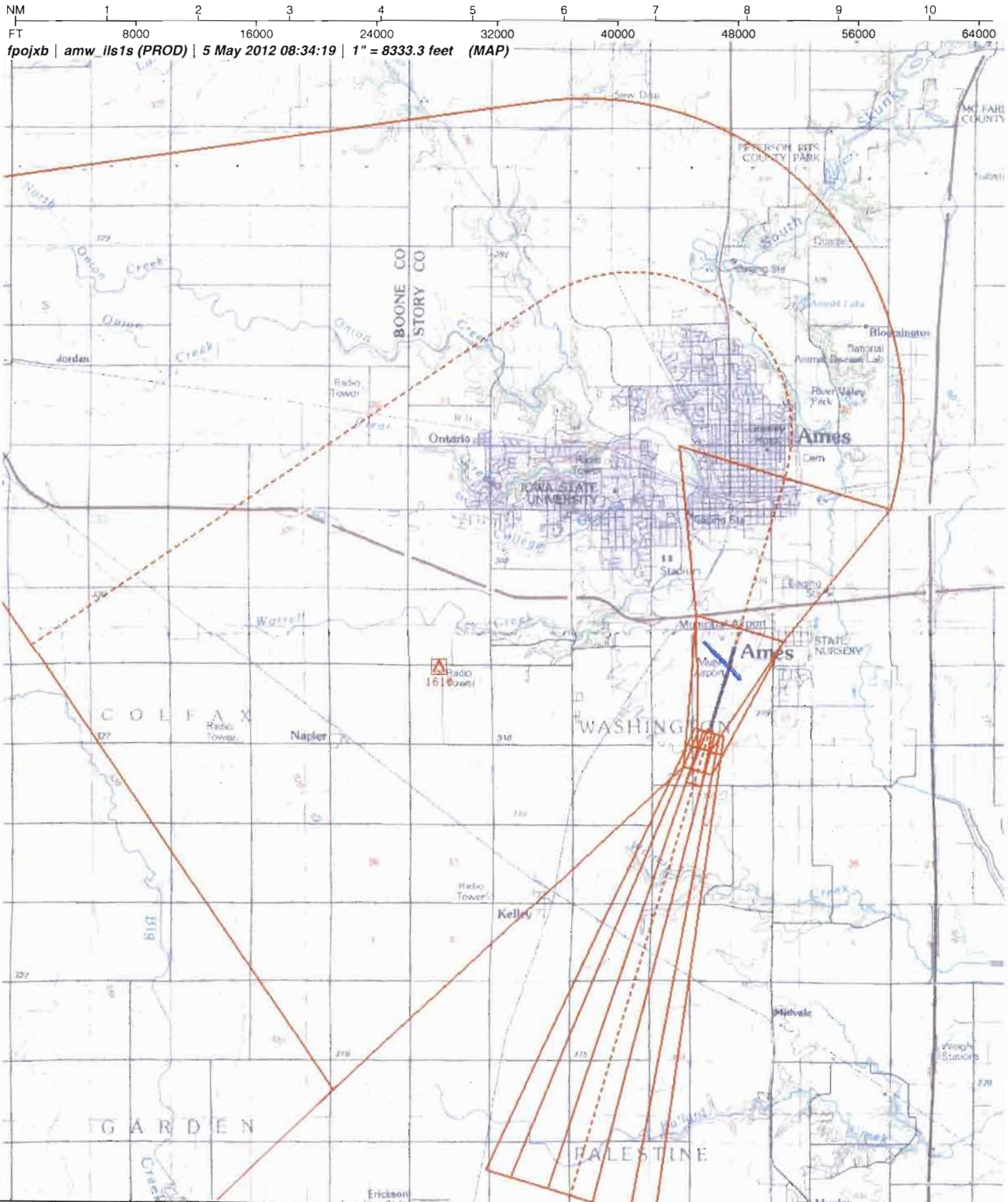
NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpojxb | amw_ils1s (PROD) | 5 May 2012 08:16:22 | 1" = 41666.7 feet (MAP)



Airport ID:	KAMW	LOC (NON-PRECISION)			
Apt Name:	AMES MUNI	No.	SEGMENT	OBSTRUCTION	ELEV
City:	AMES	1	INTERMEDIATE	TWR (19-001145)	1519
State:	IOWA	5	MISSED APPCH	TWR (19-000837)	2038
Proc ID:	ILS OR LOC RWY 1	5	HOLDING	TWR (19-000837)	2038
Number:	AMDT 2				
Scale:	1:500,000				



Airport ID:	KAMW	ILS (PRECISION)			
Apt Name:	AMES MUNI	No.	SEGMENT	OBSTRUCTION	ELEV
City:	AMES		FINAL: ILS	ASC	
State:	IOWA				
Proc ID:	ILS OR LOC RWY 1				
Number:	AMDT 2				
Scale:	1:100,000				

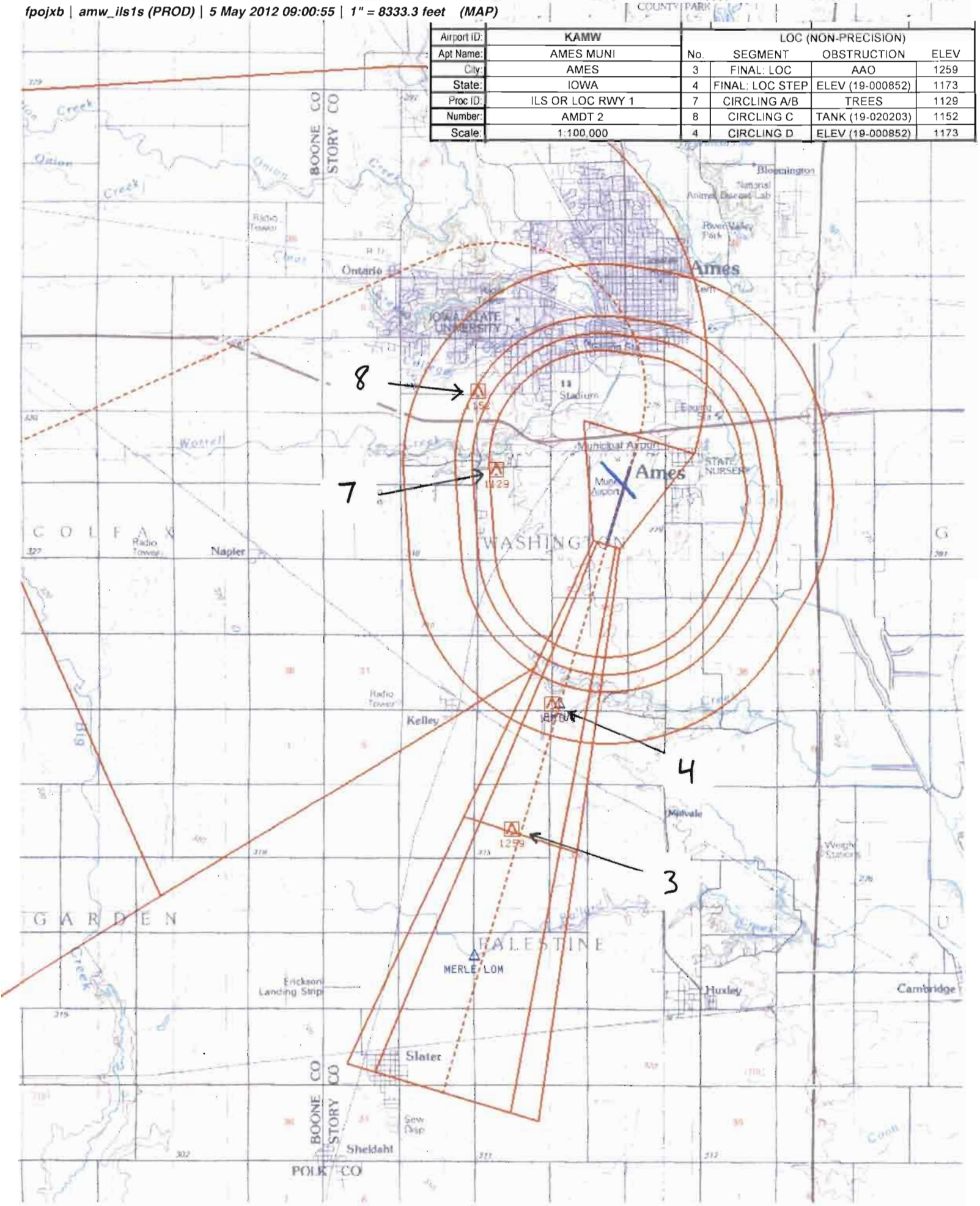
NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpojxb | amw_ils1s (PROD) | 5 May 2012 09:00:55 | 1" = 8333.3 feet (MAP)

Airport ID:	KAMW
Apt Name:	AMES MUNI
City:	AMES
State:	IOWA
Proc ID:	ILS OR LOC RWY 1
Number:	AMDT 2
Scale:	1:100,000

LOC (NON-PRECISION)			
No.	SEGMENT	OBSTRUCTION	ELEV
3	FINAL: LOC	AAO	1259
4	FINAL: LOC STEP	ELEV (19-000852)	1173
7	CIRCLING A/B	TREES	1129
8	CIRCLING C	TANK (19-020203)	1152
4	CIRCLING D	ELEV (19-000852)	1173



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
ZISTA INT (IF/IAF)	MERLE LOM/INT	013.60 / 11.82 (I-EEE)	2700

MISSED APPROACH

ILS: DA
LOC: 5.02 MILES AFTER MERLE LOM/INT

CLIMB TO 1700 THEN CLIMBING LEFT TURN TO 4000 ON HEADING 245 AND JWJ VOR/DME R-260 TO WURPU INT/JWJ 46.92 DME AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 4000 ON HEADING 024 AND DSM R-001 TO SHODR INT/DSM 49.87 DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 079.53 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N SHODR INT/DSM 49.87 DME, RT, 181.02 INBOUND.
CHART FAS OBST: 1173 ELEVATOR 415702N/0933820W
CHART IN PLANVIEW: SHODR INT/DSM 49.87 DME.
*LOC ONLY

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT ZISTA
3. FAC: 013.60 FAF: MERLE LOM/INT DIST FAF TO MAP: 5.02 THLD: 5.02
4. MIN. ALT: ZISTA 4000, MERLE LOM 2700, EMTUW INT 1640*
5. DIST TO THLD FROM OM: 5.02 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1123
6. MIN GS INCPT: 2700 GS ALT AT: - OM: 2627 MM: - IM: -
7. GS ANGLE: 3.00 TCH: 50.4
8. MSA FROM: EE LOM 090-300 4000, 300-090 2800

MAG VAR: 3E EPOCH YEAR: 2000

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A ILS: # 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 1	1156	1/2	200	1156	1/2	200	1156	1/2	200	1156	1/2	200			
S-LOC 1	1640	3/4	684	1640	3/4	684	1640	1 1/2	684	1640	1 1/2	684			
CIRCLING	1640	1	684	1640	1	684	1640	2	684	1640	2 1/4	684			
EMTUW FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)															
S-LOC 1	1440	3/4	484	1440	3/4	484	1440	1	484	1440	1	484			
CIRCLING	1440	1	484	1440	1	484	1460	1 1/2	504	1520	2	564			

NOTES:
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ANKENY ALTIMETER SETTING AND INCREASE ALL DA 49 FT AND ALL MDA 60 FT; AND INCREASE S-ILS 1 ALL CATS VISIBILITY AND S-LOC 1 CATS C/D VISIBILITY, CIRCLING CATS B/C/D VISIBILITY 1/4 MILE, EMTUW FIX MINIMUMS INCREASE S-LOC 1 CATS C/D (SEE FORM 8260-10)

CAT A, B, C 700-2, CAT D 700-2 1/4
@ CAT D 800-2 1/4
# @ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE	ELEVATION: 956 THRE: 956	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
AMES, IA	AIRPORT NAME: AMES MUNI	I-EEE	ILS OR LOC RWY 1, AMDT 2	AMDT: 1B
				DATED 04/08/2010

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 DSM ATCT, ZMP, AMGR

FLIGHT CHECKED BY		
NAME: ROBERT KARL BULLARD	FIFO FIOG	DATE: 05/01/2012
DEVELOPED BY		
NAME: JILL OLSON (MARK BURTZ)	FIFO AJV-353	DATE: 02/06/2012
APPROVED BY		
NAME: LARRY H STROUT MANAGER	FIFO AJV-353	DATE:

CHANGES:

1. REPLACED EIEIO AND NEVAD TERMINAL ROUTES WITH ZISTA INT SEGMENT AND REMOVED PT.
2. CHANGED ALL REFERENCE FROM MERLE LOM TO MERLE LOM/INT.
3. ADDED STEP DOWN FIX AND DUAL SETS OF MINIMUMS.
4. CHANGED PRIMARY MISSED APPROACH FROM "CLIMB TO 2500 THEN CLIMBING RIGHT TURN DIRECT MERLE LOM AND HOLD." TO "CLIMB TO 1700 THEN CLIMBING LEFT TURN TO 4000 ON HEADING 245 AND JWJ VOR/DME R-260 TO WURPU INT/JWJ 46.92 DME AND HOLD, OR AS DIRECTED BY ATC."
5. ADDED ALTERNATE MISSED APPROACH.
6. LOWERED ILS DA/HAT FROM 1261/305 TO 1156/200. DECREASED VISIBILITY FROM 3/4 TO 1/2.
7. ADDED/UPDATED INOPERATIVE AND BACKUP ALTIMETER NOTES AND ADDED VISIBILITY REDUCTION BY HELICOPTERS NA NOTE.
8. INCREASED S-LOC 1 CAT C VSBY FROM 3/4 TO 1.
9. CHANGED S-LOC 1 CAT C HAT FROM 485 TO 484.
10. CHANGED CIRCLING CAT A/B HAA FROM 485 TO 484, CAT C HAA FROM 505 TO 504, AND CAT D HAA FROM 565 TO 564.
11. ADDED ALTERNATE MINIMUMS.
12. CHANGED DISTANCE FAF TO MAP/THLD FROM 5.03 TO 5.02.
13. DELETED ADF REQUIRED NOTE FROM PLANVIEW.

SEE 8260-10

REASONS:

1. FPT REQUEST/OBSTACLES IN MANUVERING AREA CREATED ADVERSE PT.
2. ADDED INTERSECTION TO FIX TYPE.
3. TO RETAIN PREVIOUS STRAIGHT IN MINS/DUE TO AAO REQUIREMENT.
4. FPT/ATC REQUEST TO KEEP KAMW TRAFFIC WEST OF KIKV TRAFFIC.
5. 8260.19D REQUEST TO ADD ALTERNATE MISSED APPROACH WHEN THE FAC FOR FINAL AND MISSED COURSE DIFFER.
6. FPT REQUEST/OBSTACLES REMOVED.
7. CURRENT CRITERIA.
8. UPDATED VISIBILITY TABLES.
9. HAT NOW BASED ON THRESHOLD ELEVATION.
10. UPDATED AIRPORT ELEVATION.
11. AUTHORIZED IAW .19D.
12. UPDATED EVALUATION.
13. NO LONGER REQUIRED FOR PROCEDURE ENTRY OR MISSED APPROACH.
14. TO SUPPORT BACKUP ALTIMETER ADJUSTMENT.

SEE 8260-10

QUALITY CHECKED

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.

NOTES, (CONT.):
VISIBILITY, AND CIRCLING CAT C VISIBILITY 1/8 MILE.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 1 CATS A/B VISIBILITY TO 1 MILE. EMTUW FIX MINIMUMS, INCREASE S-LOC 1 CATS A/B VISIBILITY TO 1 MILE AND CATS C/D VISIBILITY TO 1 3/8 MILE.
CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING ANKENY ALTIMETER SETTING, INCREASE S-LOC 1 CAT A VISIBILITY TO 1 MILE, CATS C/D TO 2 MILES. EMTUW FIX MINIMUMS, INCREASE S-LOC 1 CATS A/B VISIBILITY TO 1 MILE AND CATS C/D TO 1 3/8.
CHART PROFILE NOTE: *1700 WHEN USING ANKENY ALTIMETER SETTING.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 956 THRE: 956	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
AMES, IA	AIRPORT NAME: AMES MUNI	I-EEE	ILS OR LOC RWY 1, AMDT 2	AMDT: 1B
				DATED: 04/08/2010

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

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:

CHANGES CONT.
14. ADDED PROFILE NOTE.

REASONS:

REASONS CONT.

PDF EDITS:
-3: REMOVE PT NA FROM LINE 1. REMOVED STANDARD FOR ILS ALTERNATE MINIMUMS.
BACK OF -9: ADDED 60 FT UNDER BLOCK 3 FOR ALTERNATE ALTIMETER ADJUSTMENT.

05/04/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/06/12.
1. CHANGED MISSED APPROACH CLEARANCE LIMIT FROM EIEIO INT/TNU 36.00 DME TO WURPU INT/JWJ 46.92 DME.
2. CHANGED MISSED APPROACH HOLDING PATTERN FROM HOLD NW, RT, 150.89 INBOUND TO HOLD W, RT, 079.53 INBOUND.
3. DELETED ADF REQUIRED NOTE.

QUALITY CHECKED

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        JWJ   K3010940VDLW N42064065W092543149    N42064065W092543149E0010009791     NARELMWOOD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   EMTUW K30    R     N41570842W093381277                      E0012     NAR           EMTUW
        SUSAEAENRT   MERLE K30    R     N41540922W093392424                      E0013     NAR           MERLE LOM
        SUSAEAENRT   WURPU K30    R   L N41584059W093563453                      E0015     NAR           WURPU
        SUSAEAENRT   ZISTA K30    R   L N41424936W093435434                      E0013     NAR           ZISTA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAMWK3AAMW     0     057YHN41593140W093371860E003000956         1800018000C    MNAR    AMES MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAMWK3FL01   L      010ZISTAK3EA0E  D    IF IEEEK3      19360179        PI  + 04000     18000                  0 NS
        SUSAP KAMWK3FL01   L      020MERLEK3EA0E  F    CF IEEEK3      1936006101400118PI  + 02700                EE    K3PN0 NS
        SUSAP KAMWK3FL01   L      021EMTUWK3EA0E S     CF IEEEK3      1936003001400031PI  + 01640             -318          0 NS
        SUSAP KAMWK3FL01   L      030RW01 K3PG0GY M    CF IEEEK3      1936001101400019PI    01006             -318          0 NS
        SUSAP KAMWK3FL01   L      040         0  M     CA                     0136        + 01700                          0 NS
        SUSAP KAMWK3FL01   L      050         0    L   VIY                    2450                                         0 NS
        SUSAP KAMWK3FL01   L      060WURPUK3EA0EY      CF JWJ K3      2595046925950100D   + 04000                          0 NS
        SUSAP KAMWK3FL01   L      070WURPUK3EA0EE  R   HM                     0795T010    + 04000                          0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAMWK3GRW01    0057010136 N41585772W093372912-0600    +0261500956000050100IIEEE1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAMWK3IIEEE1   011070RW01 N42000116W0933703780136N41590800W0933723291000 11230598300E00305000944

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAMWK3SEE   K3PN                0   1202700282527012004025                                                          M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 956 THRE: 956	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AMES, IA	AIRPORT NAME: **AMES MUNI**	**I-EEE**	**ILS OR LOC RWY 1, AMDT 2**	AMDT: **1B**
				DATED: **04/08/2010**

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

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.

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAPNKAMWK3 EE    K3003620HOLW N41541095W093393202                     E0030           NARMERLE
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 956 THRE: 956	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AMES, IA	AIRPORT NAME: AMES MUNI	I-EEE	ILS OR LOC RWY 1, AMDT 2	AMDT: 1B
				DATED: 04/08/2010

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

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 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		ZISTA	010	FACF	IF		FB				AA 04000	
		MERLE	020	FAF	CF		FB		014.0()	011.8	AA 02700	
		EMTUW	021	SDF	CF		FB		014.0()	003.1	AA 01640	
		RW01	030	MAP	CF		FO		014.0()	001.9	AT 01006	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		013.6()		AA 01700	
		050		VI	L	FB		245.0()			
	WURPU	060		CF		FO		259.5()	010.0	AA 04000	
	WURPU	070		HM	R	FO		079.5()	T01.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	JWJ	N420640.65	W0925431.49	N4206.678	W09254.525
	EMTUW	N415708.42	W0933812.77	N4157.140	W09338.213
	MERLE	N415409.22	W0933924.24	N4154.154	W09339.404
	WURPU	N415840.59	W0935634.53	N4158.677	W09356.576
	ZISTA	N414249.36	W0934354.34	N4142.823	W09343.906
	RW01	N415857.72	W0933729.12	N4158.962	W09337.485
	IEEE (LOC)	N420001.16	W0933703.78	N4200.019	W09337.063
	EE	N415410.95	W0933932.02	N4154.183	W09339.534

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW01	00956	50

QUALITY CHECKED

CITY AND STATE	ELEVATION: 956 THRE: 956	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AMES, IA	AIRPORT NAME: AMES MUNI	I-EEE	ILS OR LOC RWY 1, AMDT 2	AMDT: 1B
				DATED: 04/08/2010

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

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

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

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        JWJ   K3010940VDLW N42064065W092543149    N42064065W092543149E0010009791     NARELMWOOD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   MERLE K30    R     N41540922W093392424                      E0013     NAR           MERLE LOM
        SUSAEAENRT   WURPU K30    R   L N41584059W093563453                      E0015     NAR           WURPU
        SUSAEAENRT   ZISTA K30    R   L N41424936W093435434                      E0013     NAR           ZISTA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAMWK3AAMW     0     057YHN41593140W093371860E003000956         1800018000C    MNAR    AMES MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAMWK3FI01   I      010ZISTAK3EA0E  D    IF IEEEK3      19360179        PI  J 040000270018000                  0 NS
        SUSAP KAMWK3FI01   I      020MERLEK3EA0E  F    CF IEEEK3      1936006101400118PI  H 0270002627        -300EE    K3PN0 NS
        SUSAP KAMWK3FI01   I      030RW01 K3PG0GY M    CF IEEEK3      1936001101400050PI    01006             -300          0 NS
        SUSAP KAMWK3FI01   I      040         0  M     CA                     0136        + 01700                          0 NS
        SUSAP KAMWK3FI01   I      050         0    L   VIY                    2450                                         0 NS
        SUSAP KAMWK3FI01   I      060WURPUK3EA0EY      CF JWJ K3      2595046925950100D   + 04000                          0 NS
        SUSAP KAMWK3FI01   I      070WURPUK3EA0EE  R   HM                     0795T010    + 04000                          0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAMWK3GRW01    0057010136 N41585772W093372912-0600    +026150095600005010 0IIEEE1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAMWK3IIEEE1   011070RW01 N42000116W0933703780136N41590800W0933723291000 1123059830 0E00305000944

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KAMWK3SEE   K3PN               0   1202700282527012004025                                                          M

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

QUALITY CHECKED

CITY AND STATE	ELEVATION: 956 THRE: 956	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AMES, IA	AIRPORT NAME: **AMES MUNI**	**I-EEE**	**ILS OR LOC RWY 1, AMDT 2**	AMDT: **1B**
				DATED: **04/08/2010**

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

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.

```
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAPNKAMWK3 EE    K3003620HOLW N41541095W093393202                    E0030          NARMERLE
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 956 THRE: 956	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AMES, IA	AIRPORT NAME: AMES MUNI	I-EEE	ILS OR LOC RWY 1, AMDT 2	AMDT: 1B
				DATED: 04/08/2010

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

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

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 SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		ZISTA	010	FACF	IF		FB				AA 04000 GI 02700	
		MERLE	020	FAF	CF		FB		014.0()	011.8	GI 02700 GS 02627	
		RW01	030	MAP	CF		FO		014.0()	005.0	AT 01006	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		013.6()		AA 01700	
		050		VI	L	FB		245.0()			
	WURPU	060		CF		FO		259.5()	010.0	AA 04000	
	WURPU	070		HM	R	FO		079.5()	T01.0	AA 04000	

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
JWJ	N420640.65	W0925431.49	N4206.678	W09254.525
MERLE	N415409.22	W0933924.24	N4154.154	W09339.404
WURPU	N415840.59	W0935634.53	N4158.677	W09356.576
ZISTA	N414249.36	W0934354.34	N4142.823	W09343.906
RW01	N415857.72	W0933729.12	N4158.962	W09337.485
IEEE (LOC)	N420001.16	W0933703.78	N4200.019	W09337.063
EE	N415410.95	W0933932.02	N4154.183	W09339.534

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW01	00956	50

QUALITY CHECKED

CITY AND STATE	ELEVATION: **956** THRE: **956**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
AMES, IA	AIRPORT NAME: **AMES MUNI**	**I-EEE**	**ILS OR LOC RWY 1, AMDT 2**	AMDT: **1B**
				DATED: **04/08/2010**

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

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	ZISTA INT	MERLE LOM/INT	1. TOWER (19-001145)	414951.00N/0934354.00W	1519 (5D)	500	AT681	2700
	(IF/IAF)		2. TERRAIN	415324.00N/0934057.00W	1050 (1100)		AS1500	2600
FINAL: ILS	GS INTCP	RW01				ASC		1156/200
FINAL: LOC	MERLE LOM/INT	EMTUW INT	3. AAO	415533.75N/0933857.13W	1259 (2C)	250	DG120	1640
FINAL: LOC STEPDOWN	EMTUW INT	5.02 MILES AFTER	4. ELEVATOR	415702.00N/0933820.00W	1173 (1C)	250		1440
		MERLE LOM/INT	(19-000852)					
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA / 5.02 MILES	WURPU INT/JWJ				ASC		4000
	AFTER MERLE	46.92 DME	5. TOWER (19-000837)	415409.00N/0935416.00W	2038 (5D)	1000		3100
ELEV:	990/1190		6. TERRAIN	420421.00N/0935003.00W	1178 (1200)		AS1500	2700

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	684 / 484	7. TREES	415945.00N/0933912.00W	1129 (2C)	300	SI	1640 / 1440
CATEGORY B	1.5 NM	450	684 / 484	7. TREES	415945.00N/0933912.00W	1129 (2C)	300	SI	1640 / 1440
CATEGORY C	1.7 NM	450	684 / 504	8. TANK (19-020203)	420039.46N/0933929.68W	1152 (2C)	300	SI	1640 / 1460
CATEGORY D	2.3 NM	550	684 / 564	4. ELEV (19-000852)	415702.00N/0933820.00W	1173 (1C)	300	SI / HAA	1640 / 1520
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: EE LOM

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
090-300	TWR (19-001431)	153/ 04.8	2996 (2B)	4000					
300-090	TWR (19-001197)	015/ 27.3	1721 (5D)	2800					

QUALITY CHECKED

CITY AND STATE	ELEVATION: 956 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
AMES, IA	AMES MUNI	I-EEE	ILS OR LOC RWY 1, AMDT 2	ACE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
MSP ARTCC DSM APP CON	N W S	OTHER: ASOS	SOURCE: KAMW / KIKV
	F A A		DISTANCE: 0 / 18.22
	A / C		HOURS REMOTE OPERATION: 24 / BACKUP
SATISFACTORY ON: X V H F X U H F H F	LOCATION: KAMW		ADJUSTMENT: 0 / 60

4. MONITOR STATUS	PRIMARY NAVAID: I-EEE	
	MONITOR POINT: MOCC	
	HRS OPTN: CAT 1	24
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 01 (PCL)
		HIRL
	X	MIRL 31 (PCL), 13 (PCL), 01 (PCL), 19 (PCL)
		REIL
		TDZ
		C/LINE
	X	OTHER (SPECIFY) VASI-4L 31 (PCL), 13 (PCL), 19 (PCL)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 01
	INSTRUMENT	NPI-G 31, 13, 19
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 955.6
	DISTANCE FROM RWY: 1123	ELEV GP ANTENNA: 947.2
		THRESHOLD CROSSING HEIGHT: 50.4

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

10. WAIVERS: NONE

PART D - PREPARED BY: JILL OLSON (MARK BURTZ)	DATE: 02/06/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - FINAL FAC DOES NOT HAVE DME.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

OBSTACLE KAMW0008 IS PART OF THE MALSR SYSTEM AND IS CLASSIFIED AS FIXED BY FUNCTION.

INTERMEDIATE SEGMENT EXCEEDS 10 NM FOR ATC OPERATIONAL ADVANTAGE.

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

34:1 (249 HAT)
1053 TREE (KAMW0012) 415830.59N-0933748.90W (13.36)

OBSTACLE PENETRATES ILS 249 HAT GENERATED FROM BACKUP ALTIMETER SOURCE.

RASS PRESSURE PATTERNS SAME
KAMW 956, KIKV 910
RA = 48.3.
SEE ATTACHED AIRSPACE LETTER.

ALL TREES ASSUMED TO BE 100 FT AGL.

05/04/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/06/12.
1. CHANGED MISSED APPROACH CLEARANCE LIMIT FROM EIEIO INT/TNU 36.00 DME TO WURPU INT/46.92 DME.
2. CHANGED OBSTACLE #5 FROM TOWER (19-001431) TO TOWER (19-000837) AND MINIMUM ALTITUDE FROM 4000 TO 3100.
3. CHANGED OBSTACLE #6 FROM 1113 MSL TO 1178 MSL AND MINIMUM ALTITUDE FROM 2600 TO 2700.

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 4000
9. WINDMILL (19-021501) 421448.21N/0932443.11W 1619 (5D) 1000 2700
10. TERRAIN 421503.00N/0932406.00W 1234 (1200) AS1500 2700

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: EMTUW **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 415708.42N/0933812.77W **TYPE:** INT

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	FEET	MRA	MAA
1	AMES	I-EEE	LOC		193.60	196.60		3.00		1540	5400
2	NEWTON	TNU	VOR/DME	L	290.30	293.30		25.73		1540	17500

REMARKS:
AMES (FAC 1) AND NEWTON (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 1	1, 2		KAMW	AMES	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (MARK BURTZ)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: DSM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MERLE LOM **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 415409.22N/0933924.24W **TYPE:** INT

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	MERLE	EE	LOM								17500
2	AMES	I-EEE	LOC		193.60	196.60		6.12	37173	2700	5400
3	NEWTON	TNU	VOR/DME	L	283.34	286.34		25.57		2700	17500

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

REMARKS:
COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE MERLE LOM.
ACTUAL FACILITY LOCATION IS 415410.95N/0933932.02W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 1	1, 2, 3		KAMW	AMES	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED LAT/LONG.
CHANGED FIX TYPE FROM WP TO INT.
ADDED FAC 2 AND FAC 3.
DELETED HOLDING PATTERN AND ALL ASSOCIATED INFORMATION.
UPDATED REMARKS SECTION.
FIX USE UPDATED.

DEVELOPED BY: **DATE:** 02/02/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (MARK BURTZ)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: DSM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SHODR **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 421539.37N/0932932.71W **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	DES MOINES	DSM	VORTAC	H	001.02	008.02	49.87	49.87		3300	45000
2	ELMWOOD	JWJ	VOR/DME	L	288.22	289.22		27.54		3300	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DSM	VORTAC	R-001	50	3300	15400
DSM	VORTAC	R-001	60	3300	15400

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	N	DSM	VORTAC	001.02	181.02	R	1		4000	6000	6	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (19-001197)	422010.00N/0932801.00W	1721	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
ELMWOOD (FAC 2) AND DES MOINES (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVAL COMPLETED.
DSM ESV AT 60NM TO SUPPORT HOLDING PATTERN.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V13-161	1, 2				(US)
IAP	ILS OR LOC RWY 1	1, 2	1	KAMW	AMES	IA (US)
IAP	RNAV (GPS) RWY 32			KEBS	WEBSTER CITY	IA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED INTERSECTION TO FIX TYPE.
ADDED FAC 2.
ADDED HOLDING PATTERN AND ASSOCIATED DATA.
ADDED HOLDING RESTRICTIONS TO REMARKS.
ADD PRECIPITOUS TERRAIN EVAL COMPLETED TO REMARKS.
ADDED FACS USED TO ESTABLISH FIX COORDINATES TO REMARKS.
UPDATED FIX USE.

05/04/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/01/12.
1. CHANGED FAC 1 AND FAC 2 MRA FROM 3000 TO 3300.
2. ADDED ESV FOR DSM R-001 60NM 3300 15400.
3. ADDED ESV REMARK.

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (MARK BURTZ)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: DSM APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WURPU **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 415840.59N/0935634.53W **TYPE:** 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	DIST FROM FAC FEET	MRA	MAA
1	DES MOINES	DSM	VORTAC	H	330.89	337.89	35.00	35.00		30	450
2	ELMWOOD	JWJ	VOR/DME	L	259.53	260.53	46.92	46.92		40	175

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
JWJ	VOR/DME	R-260	47	4000	15400
JWJ	VOR/DME	R-260	57	4000	15400

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	W	JWJ	VOR/DME	259.53	079.53	R	1		4000	6000	6	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (19-000837)	415409.00N/0935416.00W	2038	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
DES MOINES (FAC 1) AND ELMWOOD (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVAL COMPLETED.
JWJ ESV AT 57 NM TO SUPPORT HOLDING PATTERN.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V505	1, 2				(US)
IAP	ILS OR LOC RWY 1	1, 2	1	KAMW	AMES	IA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 05/04/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (MARK BURTZ)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: DSM APP CON
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZISTA **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 414249.36N/0934354.34W **TYPE:** INT

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	DIST FROM FAC FEET	MRA	MAA
1	AMES	I-EEE	LOC		193.60	196.60		17.93		3300	5400
2	NEWTON	TNU	VOR/DME	L	258.65	261.65		28.28		3300	17500
3	DES MOINES	DSM	VORTAC	H	340.28	347.28		16.98		3300	45000

REMARKS:
AMES (FAC 1) AND NEWTON (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V172	1, 2, 3				(US)
IAP	ILS OR LOC RWY 1	1, 2, 3		KAMW	AMES	IA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
05/04/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/01/12.
1. ADDED FAC 3 TO FIX MAKE-UP.
2. ADDED FAC 3 TO FIX USE.

DEVELOPED BY: **DATE:** 02/01/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (MARK BURTZ)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: DSM APP CON
OTHER:

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **AMES** STATE: **IA**

AIRPORT NAME: **AMES MUNI** ID: **KAMW**

PROCEDURE: **ILS OR LOC RWY 1** AMDT: **2**

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 **3.44**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **0.96**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **016.60**
4. High Terrain in **FINAL** segment containing 1000' point **1059**
5. Distance from **THLD** to 1500' point **5.01**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.32**
7. True Course of **FINAL** segment containing 1500' point **016.60**
8. High Terrain in **FINAL** segment containing 1500' point **1059**
9. Threshold Coordinates (if straight-in) ... **415857.72N** / **0933729.12W**
10. ARP Coordinates ..... **415931.40N** / **0933718.60W**
11. Runway Approach End and distance furthest from ARP ..... RWY **1**
    Distance **0.58** NM
12. FAF Coordinates ..... **415351.71N** / **0933931.22W**

REMARKS: Approach/Drawing attached.