Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 06/14/2011	Task #: 20110614224917	Request #: 20110614224917
Procedure: RNAV (GPS) RWY 29 AMDT 1		Airport ID: KFKA	Airport: FILLMORE COUNTY		Reimbursable #:
City: PRESTON	ST: MN	GPS #:		Estimated Chart Date: 07/26/2012	FICO #:
Fac ID:	Fac. Type: LPV	Specialist: STEVE NELSON			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	02/01/2012	04/06/2012	STEVEN SZUKALA	
QA:	04/06/2012	04/06/2012	STEVEN SZUKALA	
Liaison:	04/06/2012		Alfonso	

Procedure Comments: **Remark Type:** INFORMATION

pkg 2 of 2

PRESTON, MN FILLMORE COUNTY (KFKA) RNAV (GPS) RWY 29, AMDT 1 (LPV) ENROUTE-NO FC: 6.12.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): FALAR-INT, REV 6; KATEY, REV 2; OXIXE, ORIG; WYKOF, REV 2; YUTUN, ORIG; EMORE-INT, REV 9; NODINE (ODI) VTAC, REV 4; WAUKON (UKN) VTAC, REV 8.

CONTACT: JILL OLSON, AJV-353 LEAD, 405 954.9568.

PRESTON, MINNESOTA

AL-9286 (FAA)

RNAV (GPS) RWY 29

PRESTON/ FILLMORE COUNTY (FKA)

WAAS	APP CRS	Rwy Idg	4001
CH 70529	286°	THRE	1276
W29A		Apt Elev	1277

DME/DME RNP-0.3 NA. When VGSI inop, Straight-in/Circling Rwy 29 procedure NA at night. Visibility reduction by helicopters NA. Baro-VNAV NA when using Rochester Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). When local altimeter setting not received, use Rochester Intl altimeter setting and increase all DA 51 feet and all MDA 60 feet, and increase LNAV/VNAV all Cats and LNAV Cat C visibility ½ mile and Circling Cat C visibility ½ mile.

MISSED APPROACH: Climb to 4000 direct YUTUN and hold

AWOS-3	ROCHESTER APP CON*	CTAF
118.550	119.8 251.125	122.9

MISSED APCH FIX
(107° T) YUTUN
106°
286°
4 NM (287° T)

ODI: N43°54.740' / W091°28.051'
UKN: N43°16.805' / W091°32.242'
EMORE: N43°42.339' / W092°11.151'
FALAR: N43°34.434' / W091°30.395'
KATEY: N43°37.200' / W091°55.341'
OXIXE: N43°40.047' / W092°08.240'
WYKOF: N43°38.977' / W092°03.376'
YUTUN: N43°44.065' / W092°26.665'
RW29: N43°40.510' / W092°10.350'

(224° T) 3000 NoPT 278° (26.4) (IAF) NODINE ODI

Procedure NA for arrivals on ODI VORTAC airway radials 149 CW 312.

EMORE
3000 to KATEY 113° (12.6) (114° T)
1465
RW29
OXIXE 1.6 NM to RW29
(FAF) WYKOF
(287° T) 3000 286° (6.1)
(IF/IAF) KATEY
(287° T) 286°
106° (107° T)
4 NM

A 1696

(279° T) 3000 NoPT 278° (18.4) (IAF) FALAR

Procedure NA for arrival at FALAR on V24 southeast bound.

MSA RW29 25 NM
3900

PROTOTYPE: NOT FOR NAVIGATION

(321° T) 3000 NoPT 320° (26.4) (IAF) WAUKON UKN

Procedure NA for arrivals on UKN VORTAC airway radials 258 CW 320.

ELEV 1277 | THRE 1276

4000 | YUTUN

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 25)

4 NM Holding Pattern

*LNAV only

OXIXE *1.6 NM to RW29

WYKOF 3000

KATEY

RW29

*1820

(287° T) 286° 3000

(107° T) 106° 3000

286° (287° T)

GS 3.00° TCH 40

1.6 NM — 3.7 NM — 4.1 NM

4001 X 75

286° to RW29

CATEGORY	A	B	C	D
LPV DA	1526-1 250 (300-1)			NA
LNAV/VNAV DA	1549-1 273 (300-1)			NA
LNAV MDA	1700-1 424 (500-1)		1700-1¼ 424 (500-1¼)	NA
CIRCLING	1700-1 423 (500-1)	1820-1 543 (600-1)	1820-1½ 543 (600-1½)	NA

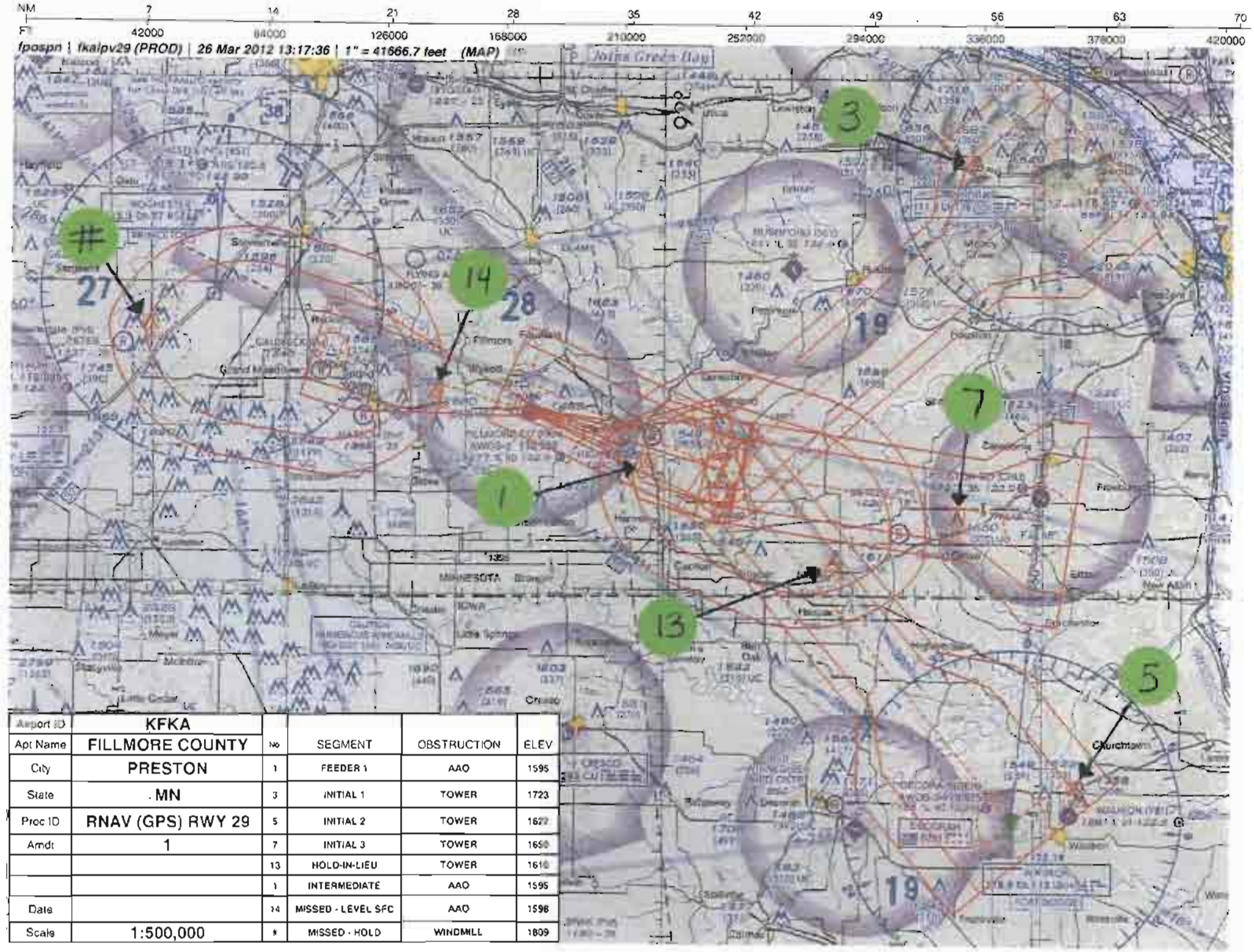
MIRL Rwy 11-29

PRESTON, MINNESOTA
Amdt 1 Working FIG

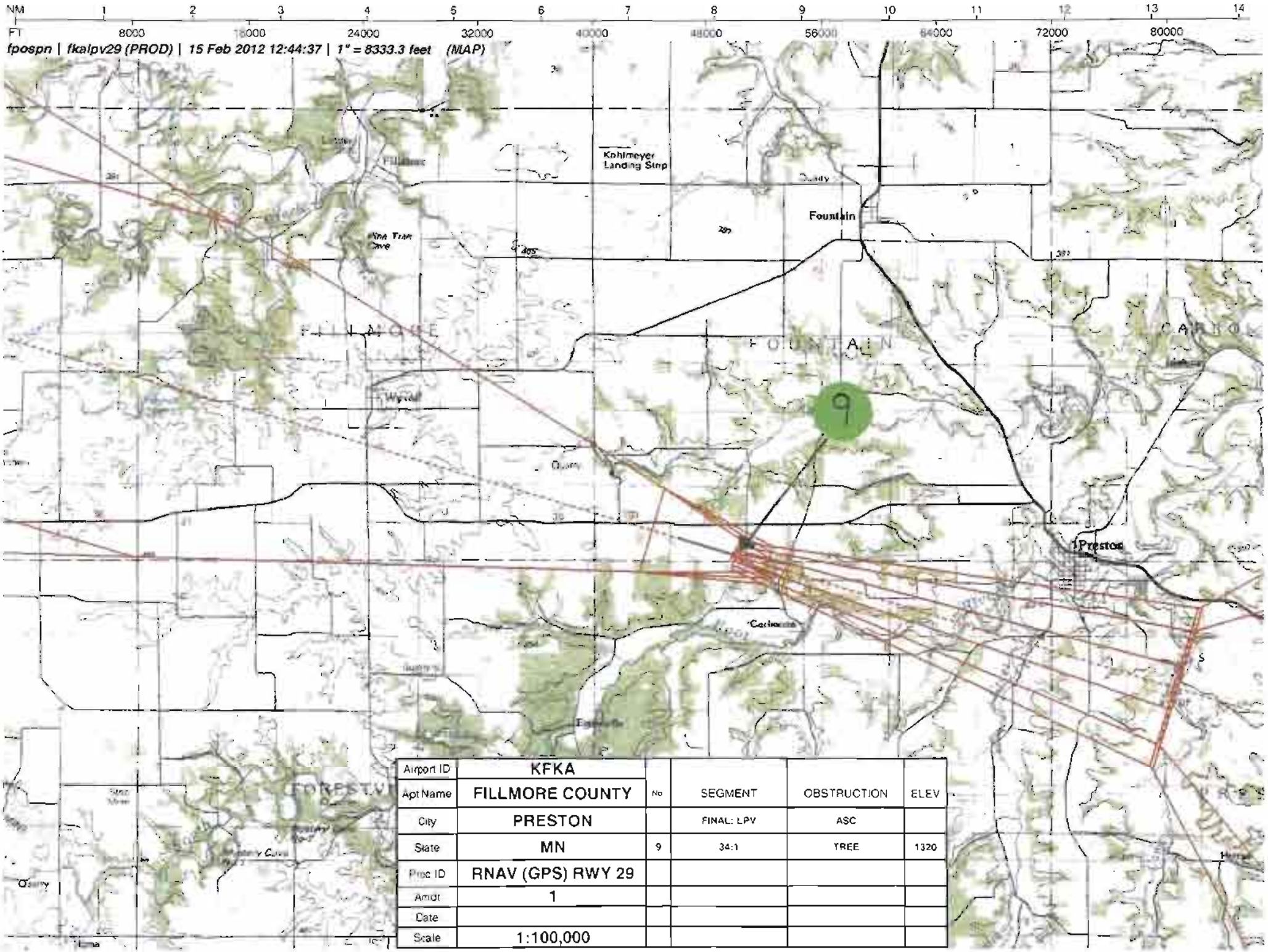
43°41'N-92°11'W

PRESTON/ FILLMORE COUNTY (FKA)

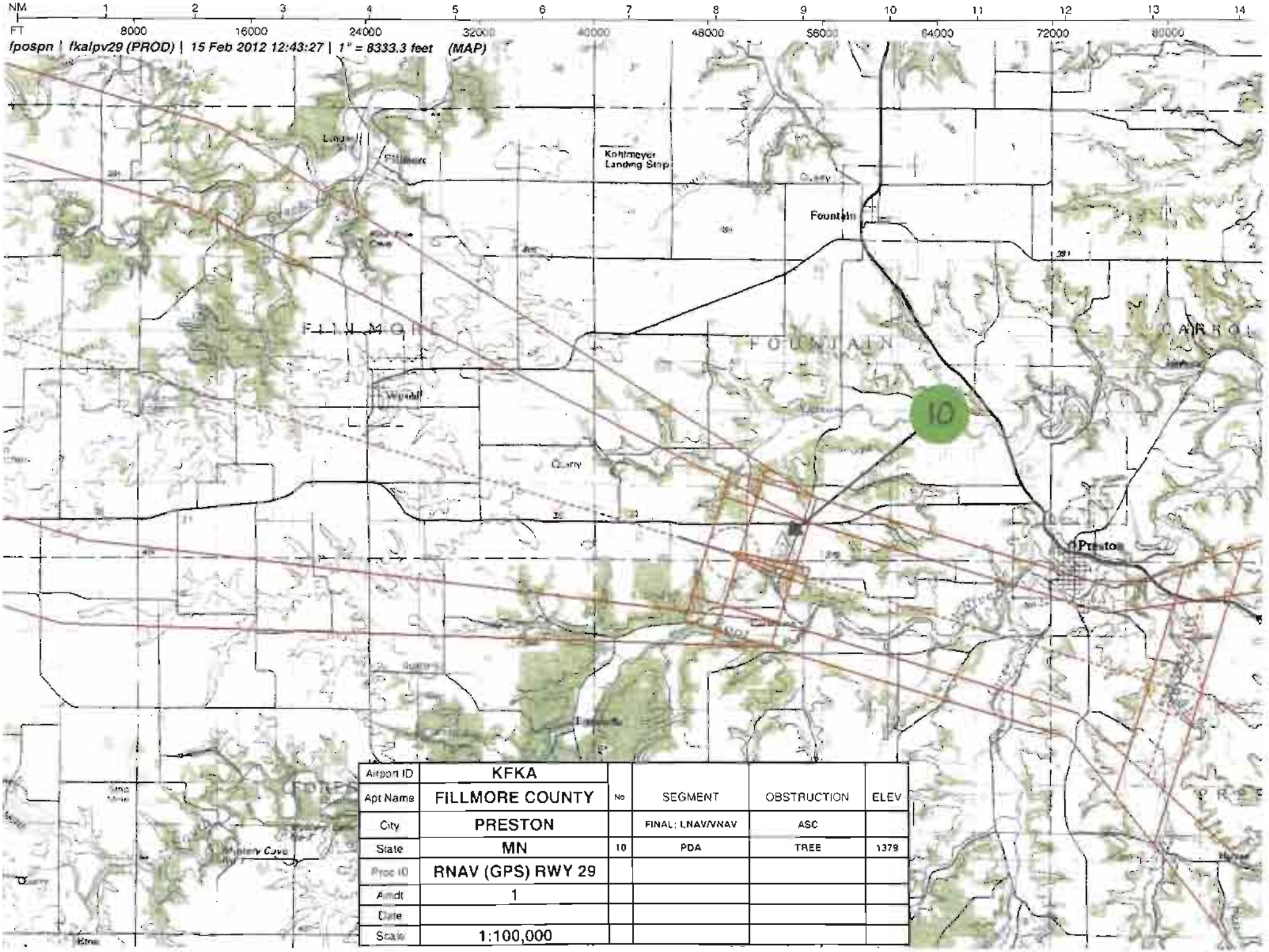
RNAV (GPS) RWY 29



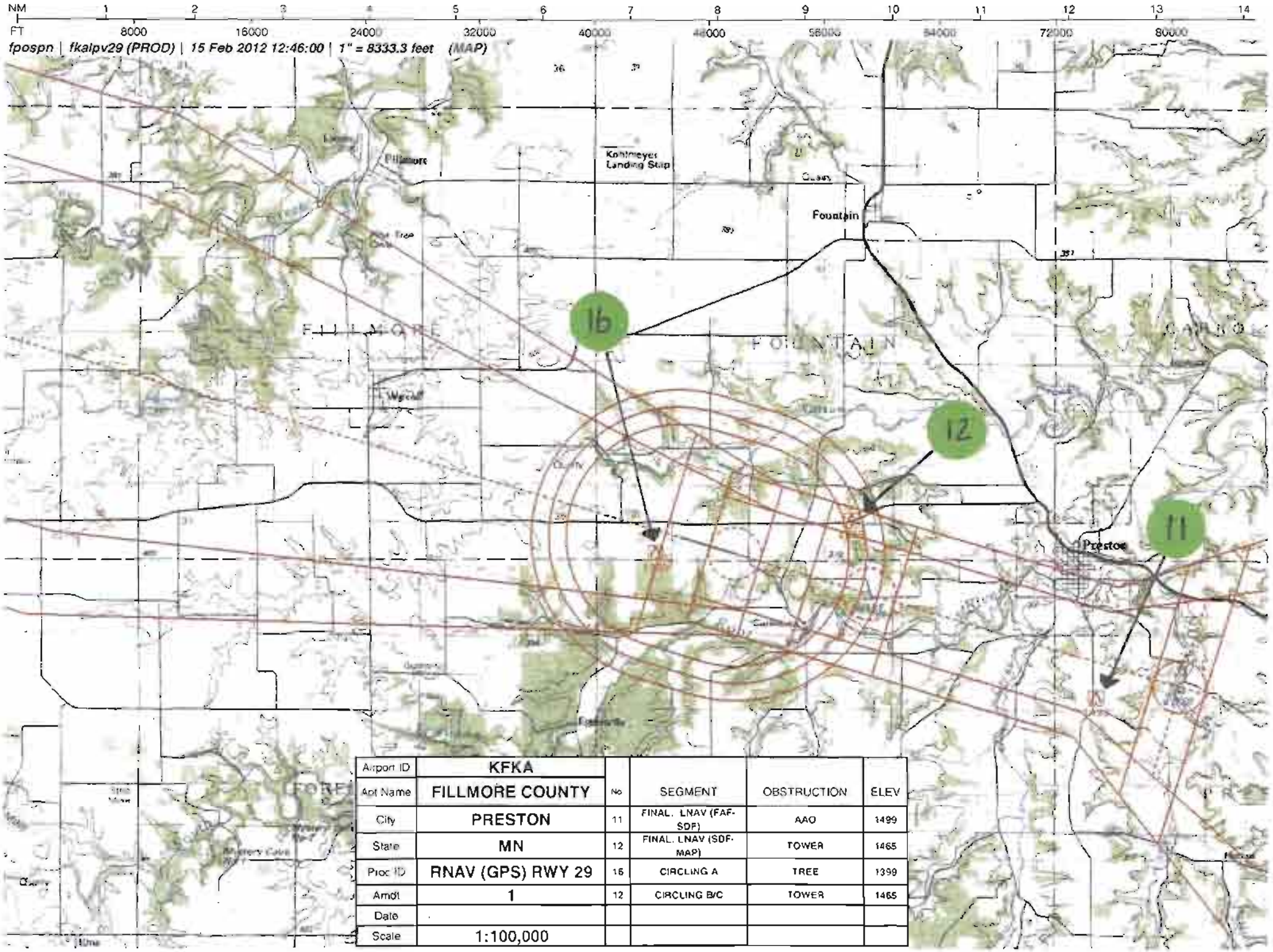
Airport ID	KFKA				
Apt Name	FILLMORE COUNTY	№	SEGMENT	OBSTRUCTION	ELEV
City	PRESTON	1	FEEDER 1	AAO	1595
State	MN	3	INITIAL 1	TOWER	1723
Proc ID	RNAV (GPS) RWY 29	5	INITIAL 2	TOWER	1622
Amdt	1	7	INITIAL 3	TOWER	1650
		13	HOLD-IN-LIEU	TOWER	1610
		1	INTERMEDIATE	AAO	1595
Date		14	MISSED - LEVEL SFC	AAO	1598
Scale	1:500,000	8	MISSED - HOLD	WINDMILL	1809



Airport ID	KFKA				
Apt Name	FILLMORE COUNTY	No	SEGMENT	OBSTRUCTION	ELEV
City	PRESTON		FINAL: LPV	ASC	
State	MN	9	34:1	TREE	1320
Proc ID	RNAV (GPS) RWY 29				
Amdt	1				
Date					
Scale	1:100,000				



Airport ID	KFKA				
Apt Name	FILLMORE COUNTY	No	SEGMENT	OBSTRUCTION	ELEV
City	PRESTON		FINAL: LNAV/VNAV	ASC	
State	MN	10	PDA	TREE	1379
Proc ID	RNAV (GPS) RWY 29				
Amdt	1				
Date					
Scale	1:100,000				



Airport ID	KFKA				
Apt Name	FILLMORE COUNTY	No	SEGMENT	OBSTRUCTION	ELEV
City	PRESTON	11	FINAL. LNAV (FAF-SDF)	AAO	1499
State	MN	12	FINAL. LNAV (SDF-MAP)	TOWER	1465
Proc ID	RNAV (GPS) RWY 29	16	CIRCLING A	TREE	1399
Amdt	1	12	CIRCLING B/C	TOWER	1465
Date					
Scale	1:100,000				

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

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

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
EMORE	KATEY (FO)	113.03 / 12.56	3000
ODI VORTAC (IAF)	KATEY (NOPT) (FB)	227.59 / 26.43	3000
UKN VORTAC (IAF)	KATEY (NOPT) (FB)	319.60 / 26.44	3000
FALAR (IAF)	KATEY (NOPT) (FB)	277.79 / 18.40	3000
KATEY (IF/IAF)	WYKOF (FB)	285.98 / 6.10	3000
WYKOF (FAF)	OXIXE/1.60 NM TO RW29 (FB)	285.89 / 3.69	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW29

CLIMB TO 4000 DIRECT YUTUN AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 105.62 INBOUND.
CHART FAS OBST: 1465 TOWER 434049N/0920831W
DISTANCE TO THLD FROM 250 HATH: 0.66 NM.
WAAS CHANNEL # 70529
REFERENCE PATH ID: W29A
LTP HAE: 358.6 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD E KATEY, LT, 285.98 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 285.89 FAF: WYKOF DIST FAF TO MAP: 5.29 THLD: 5.29
4. MIN. ALT: KATEY 3000, WYKOF 3000, OXIXE/1.60 NM TO RW29 1820*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 3000 GS ALT AT: WYKOF 3000 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
8. MSA FROM: RW29 3900

MAG VAR: 1E EPOCH YEAR: 2000

MINIMUMS

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

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1526	1	250	1526	1	250	1526	1	250		NA				
LNAV/VNAV DA	1549	1	273	1549	1	273	1549	1	273		NA				
LNAV MDA	1700	1	424	1700	1	424	1700	1 1/4	424		NA				
CIRCLING	1700	1	423	1820	1	543	1820	1 1/2	543		NA				

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 29 PROCEDURE NA AT NIGHT.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART NOTE: BARO-VNAV NA WHEN USING ROCHESTER INTL ALTIMETER SETTING.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE	ELEVATION: 1277 THRE: 1276 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
PRESTON, MN	FILLMORE COUNTY	RNAV	RNAV (GPS) RWY 29, AMDT 1	AMDT: ORIG
				DATED 04/10/2008

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] ZMP, RST APP CON, AMGR

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:
JILL OLSON (STEVE NELSON)	AJV-353	02/21/2012

APPROVED BY

NAME:		FIFO	DATE:
LARRY H STROUT	MANAGER	AJV-353	

CHANGES:

1. CHANGED EMORE TO KATEY COURSE AND DISTANCE FROM 113.05/12.48 TO 113.03/12.56.
2. DELETED INITIAL SEGMENT BEGINNING AT LEFTY.
3. ADDED INITIAL SEGMENTS FROM ODI VORTAC, UKN VORTAC, AND FALAR.
4. CHANGED KATEY TO WYKOF COURSE FROM 285.96 TO 285.98.
5. ADDED SDF OXIXE.
6. CHANGED HOLDING COURSE INBOUND AT KATEY FROM 285.96 TO 285.98.
7. CHANGED FAC FROM 285.87 TO 285.89.
8. CHANGED DIST FAF TO MAP/THLD FROM 5.21 TO 5.29.
9. ADDED LPV AND LNAV/VNAV LINES OF MINIMA AND ASSOCIATED NOTES.
10. CHANGED LNAV MDA FROM 1760 TO 1700 AND CAT A CIRCLING MDA FROM 1760 TO 1700.
11. CHANGED MSA FROM RWY29 FROM 3700 TO 3900.
12. CHANGED MISSED APPROACH FROM CLIMBING LEFT TURN TO 3000 DIRECT KATEY AND HOLD TO CLIMB TO 4000 DIRECT YUTUN AND HOLD.
13. CHANGED WHEN VGSI INOP, PROCEDURE NA AT NIGHT TO WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 29 PROCEDURE NA AT NIGHT.
14. UPDATED BACKUP ALTIMETER NOTE.

SEE 8260-10

REASONS:

1-4, 6-8. .54A CRITERIA CHANGES TO PFAF FORMULA AND SEGMENT LENGTH CALCULATION.
5. NEGATE THE EFFECTS OF AAO.
9. ADDITION OF VG SURVEY.
10. ADDITION OF SDF AND TREE ON HIGH TERRAIN (WITH OBSERVED TREES).
11. NEW DATABASE OBSTACLE. 2828 TOWER 432832.00N/0924230.00W.
12. PER FPO REQUEST FOR MISSED TO GO TO RWY 11 IF/IAF.
13. CHANGED NOTE TO ALLOW CIRCLING TO RWY 11.
14. INCORPORATED ADDITION OF LPV AND LNAV/VNAV.
15. 8260.19D, 805G(2).

PDF EDITS:
1. ADDED (FAF) AFTER WYKOF IN TERMINAL ROUTES.
2. DELETED ALTITUDE 1820*, FROM WYKOF TO OXIXE SEGMENT, IN TERMINAL ROUTES.
3. CHANGED ALTITUDE 1526 TO 4000, FROM 1526 MSL TO YUTUN SEGMENT, IN TERMINAL ROUTES.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
OXIXE/1.60 NM TO RW29	RW29 (MAP) (FO)	285.84 / 1.60	
RW29 (MAP)	1526 MSL	285.84	
1526 MSL	YUTUN (FO)		4000

NOTES, (CONT.):
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ROCHESTER INTL ALTIMETER SETTING AND INCREASE ALL DA 51 FEET AND ALL MDA 60 FEET AND INCREASE LNAV/VNAV ALL CATS AND LNAV CAT C VISIBILITY 1/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON ODI VORTAC AIRWAY RADIALS 149 CW 312.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON UKN VORTAC AIRWAY RADIALS 258 CW 320.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FALAR ON V24 SOUTHEAST BOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
*LNAV ONLY.

QUALITY CHECKED

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.

15. ADDED PROCEDURE NA NOTES FOR ODI VORTAC, UKN VORTAC, AND FALAR.

REASONS:

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFKA
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	434030.6110N
LTP/FTP LONGITUDE	0921020.9960W
LTP/FTP ELLIPSOIDAL HEIGHT	+03586
FPAP LATITUDE	434056.3600N
FPAP LONGITUDE	0921218.5400W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	BBF820E7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03888
FPAP ORTHOMETRIC HEIGHT	+03888

QUALITY

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

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

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ARINC PACKET - 424-18 - RNAV (GPS)

```
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NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAD        UKN   K3011660VTL  N43164831W091321450    N43164831W091321450E0050012881     NARWAUKON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   EMORE K30    C   L N43422034W092110907                      W0002     NAR           EMORE
        SUSAEAENRT   FALAR K30    C   L N43342604W091301832                      W0007     NAR           FALAR
        SUSAEAENRT   KATEY K30    W     N43371197W091552043                      W0004     NAR           KATEY
        SUSAEAENRT   OXIXE K30    W     N43400282W092081439                      W0002     NAR           OXIXE
        SUSAEAENRT   WYKOF K30    W     N43385860W092032256                      W0003     NAR           WYKOF
        SUSAEAENRT   YUTUN K30    W     N43440388W092263988                      E0001     NAR           YUTUN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
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SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFKAK3FR29   AEMORE 010EMOREK3EA0E       IF                                                18000                 A JS
        SUSAP KFKAK3FR29   AEMORE 020KATEYK3EA0EY   020TF                      11300126    + 03000                             A JS
        SUSAP KFKAK3FR29   AEMORE 030KATEYK3EA0EE AL   HF                      28600040    + 03000                             A JS
        SUSAP KFKAK3FR29   AFALAR 010FALARK3EA0E  A    IF                                                18000                 A JS
        SUSAP KFKAK3FR29   AFALAR 020KATEYK3EA0EE B 010TF                      27780184    + 03000                             A JS
        SUSAP KFKAK3FR29   AODI   010ODI  K3D 0V  A    IF                                                18000                 A JS
        SUSAP KFKAK3FR29   AODI   020KATEYK3EA0EE B 010TF                      22760264    + 03000                             A JS
        SUSAP KFKAK3FR29   AUKN   010UKN  K3D 0V  A    IF                                                18000                 A JS
        SUSAP KFKAK3FR29   AUKN   020KATEYK3EA0EE B 010TF                      31960264    + 03000                             A JS
        SUSAP KFKAK3FR29   R      010KATEYK3EA0E  I    IF                                  + 03000     18000                 A JS
        SUSAP KFKAK3FR29   R      020WYKOFK3EA1E  F 051TF                      28600061    + 03000                 RW29  K3PGA JS
        SUSAP KFKAK3FR29   R      020WYKOFK3EA2WALPV       ALNAV/VNAV ALNAV                                                      JS
        SUSAP KFKAK3FR29   R      021OXIXEK3EA0E S  031TF                      28590037    V 0182001825        -300          A JS
        SUSAP KFKAK3FR29   R      030RW29 K3PG0GY M 031TF                      28580016      01316             -300          A JS
        SUSAP KFKAK3FR29   R      040         0  M     CA                      2858        + 01526                             A JS
        SUSAP KFKAK3FR29   R      050YUTUNK3EA0EY      DF                                  + 04000                             A JS
        SUSAP KFKAK3FR29   R      060YUTUNK3EA0EE  R   HM                      10560040    + 04000                             A JS

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

CITY AND STATE	ELEVATION: 1277 THRE: 1276	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PRESTON, MN	AIRPORT NAME: FILLMORE COUNTY	RNAV	RNAV (GPS) RWY 29, AMDT 1	AMDT: ORIG
				DATED: 04/10/2008

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 KFKAK3GRW29    0040012858 N43403061W092102100-0100    +0358601276000040075R
                  1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------
        SUSAP KFKAK3PR29   RW29 001 0000W29A0N4340306110W09210209960+035860300N4340563600W092121854001067515280004 00F400500BBF820E7
        SUSAP KFKAK3PR29   RW29 002E      +03888+03888LPV       70529
                  1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------
        SUSAP KFKAK3SRW29 K3PG                0   18018003925                                                                  M
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 1277 THRE: 1276	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PRESTON, MN	AIRPORT NAME: FILLMORE COUNTY	RNAV	RNAV (GPS) RWY 29, AMDT 1	AMDT: ORIG
				DATED: 04/10/2008

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	EMORE	EMORE	010		IF		FB					
	EMORE	KATEY	020		TF		FO	2.0	113.0(114.0T)	012.6	AA 03000	
	EMORE	KATEY	030	IAF	HF	L	FO		286.0(287.0T)	004.0	AA 03000	
	FALAR	FALAR	010	IAF	IF		FB					
	FALAR	KATEY	020		TF		FB	1.0	277.8(278.8T)	018.4	AA 03000	
	ODI	ODI	010	IAF	IF		FB					
	ODI	KATEY	020		TF		FB	1.0	227.6(228.6T)	026.4	AA 03000	
	UKN	UKN	010	IAF	IF		FB					
	UKN	KATEY	020		TF		FB	1.0	319.6(320.6T)	026.4	AA 03000	
		KATEY	010	FACF	IF		FB				AA 03000	
		WYKOF	020	FAF	TF		FB	0.5	286.0(287.0T)	006.1	AA 03000	
		OXIXE	021	SDF	TF		FB	0.3	285.9(286.9T)	003.7	AA 01820	GS 01825
		RW29	030	MAP	TF		FO	0.3	285.8(286.8T)	001.6	AT 01316	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		285.8(286.8T)		AA 01526	
	YUTUN	050		DF		FO				AA 04000	
	YUTUN	060		HM	R	FO		105.6(106.6T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ODI	N435444.38	W0912803.08	N4354.740	W09128.051
	UKN	N431648.31	W0913214.50	N4316.805	W09132.242
	EMORE	N434220.34	W0921109.07	N4342.339	W09211.151
	FALAR	N433426.04	W0913018.32	N4334.434	W09130.305
	KATEY	N433711.97	W0915520.43	N4337.200	W09155.341
	OXIXE	N434002.82	W0920814.39	N4340.047	W09208.240
	WYKOF	N433858.60	W0920322.56	N4338.977	W09203.376
	YUTUN	N434403.88	W0922639.88	N4344.065	W09226.665
	RW29	N434030.61	W0921021.00	N4340.510	W09210.350

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW29	01276	40

CITY AND STATE	ELEVATION: 1277 THRE: 1276	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PRESTON, MN	AIRPORT NAME: **FILLMORE COUNTY**	**RNAV**	**RNAV (GPS) RWY 29, AMDT 1**	AMDT: **ORIG**
				DATED: **04/10/2008**

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	EMORE	KATEY	1. AAO	433721.00N/0920115.00W	1595 (4E)	1000	AT405	3000
			2. TERRAIN	433721.00N/0920115.00W	1395 (1400)		AS1500	2900
INITIAL	ODI VORTAC	KATEY	3. TOWER (27-002085)	435446.00N/0913530.00W	1723 (5E)	1000	AT277	3000
			4. TERRAIN	435445.00N/0913339.00W	1388 (1400)		AS1500	2900
INITIAL	UKN VORTAC	KATEY	5. TOWER (19-001339)	431827.91N/0912718.49W	1622 (5D)	1000	AT378	3000
			6. TERRAIN	433027.00N/0915045.00W	1388 (1400)		AS1500	2900
INITIAL	FALAR	KATEY	7. TOWER (27-020459)	433413.05N/0913642.28W	1650 (5E)	1000	AT350	3000
			8. TERRAIN	433427.00N/0913524.00W	1346 (1300)		AS1500	2800
INTERMEDIATE	KATEY (IF/IAF)	WYKOF	1. AAO	433721.00N/0920115.00W	1595 (4E)	500	AT807 AC98	3000
			2. TERRAIN	433721.00N/0920115.00W	1395 (1400)		AS1500	2900
FINAL: LPV	WYKOF	RW29	9. TREE (KFKAT0108)	434026.23N/0921017.03W	1320 (2C)	34:1	AC20	1526/250
FINAL: LNAV/VNAV	WYKOF	RW29	10. TREE	434036.52N/0920933.51W	1379 (2C)	PDA	AC20	1549/273
FINAL: LNAV	WYKOF	OXIXE/1.60 NM TO RW29	11. AAO	433846.00N/0920441.00W	1499 (2C)	250	RA51 DG9	1820
2. HOLD-IN-LIEU-OF-PT	KATEY	P-5	13. TOWER (27-001789)	433124.00N/0914637.00W	1610 (5E)	1000	AT390	3000
			2. TERRAIN	433721.00N/0920115.00W	1395 (1400)		AS1500	2900
3. MISSED APPROACH MAP:	DA / DA / RW29	YUTUN				ASC		4000
			14. AAO	434118.00N/0921809.00W	1598 (4E)	1000		2600
ELEV:	1339/1399/1600		15. TERRAIN	434118.00N/0921809.00W	1398 (1400)		AS1500	2900

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL						
CATEGORY A	1.3 NM	350	423	16. TREE	434025.74N/0921136.03W	1399 (2C)	300		1700
CATEGORY B	1.5 NM	450	543	12. TOWER (27-000286)	434049.00N/0920831.00W	1465 (1D)	300	AC50	1820
CATEGORY C	1.7 NM	450	543	12. TOWER (27-000286)	434049.00N/0920831.00W	1465 (1D)	300	AC50	1820
CATEGORY D	2.3 NM	550							
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW29

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (19-020063)	242/ 26.3	2828 (5D)	3900					

CITY AND STATE	ELEVATION: 1277 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
PRESTON, MN	FILLMORE COUNTY	RNAV	RNAV (GPS) RWY 29, AMDT 1	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
PNM FSS RST APP CON ZMP ARTCC SATISFACTORY ON:	N W S / F A A / A / C — OTHER: AWOS-3	SOURCE: KFKA / KRST DISTANCE: 0 / 19.66 HOURS REMOTE OPERATION: 24 / BACKUP
X V H F X U H F H F	LOCATION: KFKA	ADJUSTMENT: 0 / 51

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

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
	MALS
	HIRL
X	MIRL 11 (PCL), 29 (PCL)
	REIL
	TDZ
	C/LINE
X	OTHER (SPECIFY) VASI-2L 11 (PCL), 29 (PCL)

6. RUNWAY MARKINGS	
	BASIC
	ALL WEATHER
	INSTRUMENT NPI-F 11, 29

7. RUNWAY VISUAL RANGE	
	APPROACH
	MIDFIELD
	ROLL OUT

8. GLIDE PATH		
GP ANGLE: 3.00		ELEV RWY THRESHOLD: 1275.5
DISTANCE FROM RWY:		ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 40.0

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

10. WAIVERS: NONE

PART D - PREPARED BY:	DATE:
JILL OLSON (STEVE NELSON)	02/21/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - 20:1 PENETRATIONS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

2. KFKA AWOS AND KRST ASOS ON SERVICE A.

NO ADDITIONAL AIRSPACE REQUIRED.

RASS PRESSURE PATTERNS THE SAME
KFKA 1277, KRST 1317
RA=0/50.9

VEGETATION: 80' PER FPO.

TAA NOT DEVELOPED PER FPO.

NO HISTORICAL DATA AVAILABLE. AVERAGE COLD TEMPERATURE BASED ON STANDARD -30C ISA DEVIATION.
ACTUAL HIGH TEMPERATURE 87C (188F).

LPV SURFACE 34:1
LNAV/VNAV SURFACE 23.4:1

LPV, LNAV/VNAV, AND LNAV INTERMEDIATE OBS AND TERRAIN ARE THE SAME. FOR CONTINUITY, TERRAIN COORDINATES CHANGED TO REFLECT THE LOCATION OF THE IDENTIFIED AAO.

VGSI DATA: 3.00/25

TERPS, VOLUME 1, PARAGRAPH 251 PENETRATIONS:
20:1
1320 TREE (KFKAT0108)
434026.23N/0921017.03W (34.13)
1314 TREE (KFKAT0112)
434026.12N/0921015.62W (23.01)
1297 TREE (KFKAT0111)
434026.95N/0921019.33W (20.27)
1315 TREE (KFKAT0104)
434025.44N/0921013.56W (15.77)
1306 TREE (KFKAT0102)
434032.99N/0921009.59W (3.87)
1278 GRD (KFKAT0117)
434029.51N/0921018.32W (1.47)
1278 GRD (KFKAT0116)
434031.59N/0921017.43W (1.38)

34:1
1312 TREE (KFKAT0107)
434023.29N/0921008.20W (9.60)
1305 TREE (KFKAT0106)
434024.26N/0921009.39W (5.90)
1311 TREE (KFKAT0120)
434021.86N/0921006.54W (3.94)
1299 TREE (KFKAT0113)
434025.10N/0921010.57W (3.06)
1308 TREE (KFKAT0114)
434022.39N/0921006.63W (1.58)
1294 TREE (KFKAT0103)
434030.92N/0921009.79W (1.46)

OBS 3, 7, AND 13: ACCURACY CODES ARE PER EMAIL CORRESPONDENCE WITH STEVEN POSNER, TERRAIN AND OBSTACLE DATA TEAM, DATED 03/23/2012. EMAIL STATES ACCURACY CODES WILL BE REFLECTED IN NEXT DOF UPDATE.

ORIGINAL
QUALITY CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LNAV STEPDOWN	OXIXE/1.60 NM TO	RW29	12. TOWER (27-000286)	434049.00N/0920831.00W	1465 (1D)	250	AC50 SA-66	1700
	RW29							

3. MISSED APPROACH	
MAP:	
ELEV:	

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

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

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

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
PRESTON, MN	ELEVATION: 1277 AIRPORT NAME: FILLMORE COUNTY	RNAV	RNAV (GPS) RWY 29, AMDT 1	AGL-17

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ N W S OTHER: ☐ F A A ☐ A / C	SOURCE: DISTANCE: HOURS REMOTE OPERATION:
☐ V H F ☐ U H F ☐ H F	LOCATION:	ADJUSTMENT:

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

5. APPROACH & RUNWAY LIGHTING		
	☐	**ALS**
	☐	**(S) SALS**
	☐	**MALS**
	☐	**HIRL**
	☐	**MIRL**
	☐	**REIL**
	☐	**TDZ**
	☐	**C/LINE**
	☐	**OTHER (SPECIFY)**

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

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

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FALAR **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 433426.04N/0913018.32W **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	ROCHESTER	RST	VOR/DME	L	099.40	104.40	49.17	49.17		3000	17500
2	WAUKON	UKN	VORTAC	L	359.57	004.57	17.68	17.68		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
RST	VOR/DME	R-099	50	3000	17500

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

REMARKS:
ROCHESTER (FAC 1) AND WAUKON (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V24	1, 2				(US)
EN ROUTE	V246	1, 2				(US)
IAP	VOR/DME OR GPS-A	1, 2		KCHU	CALEDONIA	MN (US)
IAP	RNAV (GPS) RWY 29			KFKA	PRESTON	MN (US)
IAP	RNAV (GPS) RWY 34			K55Y	RUSHFORD	MN (US)
IAP	RNAV (GPS) RWY 3			KLSE	LA CROSSE	WI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. RELOCATED FIX 0.00NM (14.99') SOUTHEAST.
2. CHANGED FAC 1 TRUE BRG FROM 104.39 TO 104.40. DME/DIST FROM FAC NM FROM 49.16 TO 49.17.
3. CHANGED FAC 2 TRUE BRG FROM 004.56 TO 004.57.
4. ADDED FACILITIES TO ESTABLISH FIX COORDINATE NOTE.

DEVELOPED BY: **DATE:** 02/21/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: LSE ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KATEY **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 433711.97N/0915520.43W **TYPE:** WP

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

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		WP	105.98	285.98	L		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-001789)	433124.00N/0914637.00W	1610	5E

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUESTED.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 11		1	KFKA	PRESTON	MN (US)
IAP	RNAV (GPS) RWY 29		1	KFKA	PRESTON	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. RELOCATED FIX 0.08NM(483.29') SOUTHEAST.
2. DELETED FAC 1.
3. CHANGED PAT 1 CRS INBOUND FROM 285.96 TO 285.98.
4. CHANGED PAT 1 CONTROLLING OBSTACLE FROM 1595' AAO TO 1610' TOWER.

DEVELOPED BY: **DATE:** 02/07/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OXIXE **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 434002.82N/0920814.39W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 29			KFKA	PRESTON	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 02/08/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WYKOF **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 433858.60N/0920322.56W **TYPE:** WP

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

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

REMARKS:
PFAF LOCATION IAW 8260.54A FORMULA 2-16B.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 29			KFKA	PRESTON	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. RELOCATED FIX 0.08NM(457.64') SOUTHEAST.
2. DELETED FAC 1.

DEVELOPED BY: **DATE:** 02/07/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YUTUN **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 434403.88N/0922639.88W **TYPE:** WP

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

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W		WP	285.62	105.62	R		4	3600	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	WINDMILL (27-020341)	434511.34N/0924053.51W	1809	4D

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	RNAV (GPS) RWY 11		1	KFKA	PRESTON	MN (US)
IAP	RNAV (GPS) RWY 29		1	KFKA	PRESTON	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
05/08/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/03/12.
1. MIN HOLDING CHANGED FROM 3500 TO 3600. ATC'S MVA MAP DOES NOT REFLECT THE MOST CURRENT OBSTACLE DATA AND 3500 CAUSES LOW ALTITUDE ALERTING TO TRIGGER.

DEVELOPED BY: **DATE:** 02/03/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

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

"INFO ONLY"

RADIO FIX AND HOLDING DATA RECORD

NAME: EMORE **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 434220.34N/0921109.07W **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	ROCHESTER	RST	VOR/DME	L	099.40	104.40	18.47	18.47		3000	17500
2	NODINE	ODI	VORTAC	H	247.58	248.58		33.58		3000	17500
3	ROCHESTER	I-RST	LOC		131.14	132.14		19.31		2800	8000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-RST	LOC	R-131	20	2800	8000

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

REMARKS:
ROCHESTER (FAC 1) AND ROCHESTER (FAC 3) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V24	1, 2				(US)
IAP	RNAV (GPS) RWY 29			KFKA	PRESTON	MN (US)
IAP	COPTER ILS OR LOC RWY 31	1, 2, 3		KRST	ROCHESTER	MN (US)
IAP	ILS OR LOC RWY 31	1, 2, 3		KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 2			KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 31			KRST	ROCHESTER	MN (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATE FIX COORDINATES, MOVED FIX 89 FEET WNW.
CHANGED FAC 1 MAG/TRUE BRG FROM 099.39/104.39 TO 099.40/104.40, DME FROM 18.48 TO 18.47.
CHANGED FAC 2 MAG/TRUE BRG FROM 247.55/248.55 TO 247.58/248.58, DME FROM 33.57 TO 33.58.
CHANGED FAC 3 DIST FROM 19.33 TO 19.31.
ADD FACILITIES FOR FIX MAKE-UP TO REMARKS.

DEVELOPED BY: **DATE:** 01/04/2012 **OFFICE:** AJV-353 **NAME:** THOMAS KIRKPATRICK

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: RST ATCT
OTHER:

QUALITY CHECKED

"INFO ONLY"

RADIO FIX AND HOLDING DATA RECORD

NAME: NODINE VORTAC **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 435444.38N/0912803.08W **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	NODINE	ODI	VORTAC	H						3000	45000

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	S	ODI	VORTAC	177.54	357.54	R	1		3400	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (27-000375)	434823.00N/0912203.00W	2045	2C
1	200	TOWER (27-000375)	434823.00N/0912203.00W	2045	2C

REMARKS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3500.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ZMBRO			KANE	MINNEAPOLIS	MN (US)
DP	ZMBRO			KFCM	MINNEAPOLIS	MN (US)
DP	MEADOW LAKE			KMSP	MINNEAPOLIS	MN (US)
DP	ZMBRO			KMSP	MINNEAPOLIS	MN (US)
DP	ZMBRO			KSTP	ST PAUL	MN (US)
EN ROUTE	J30					(US)
EN ROUTE	J34					(US)
EN ROUTE	J36					(US)
EN ROUTE	V129					(US)
EN ROUTE	V170					(US)
EN ROUTE	V171					(US)
EN ROUTE	V2					(US)
EN ROUTE	V246					(US)
EN ROUTE	V510					(US)
EN ROUTE	V82					(US)
EN ROUTE	V97					(US)
IAP	GPS RWY 31			KCHU	CALEDONIA	MN (US)
IAP	VOR/DME OR GPS-A			KCHU	CALEDONIA	MN (US)
IAP	RNAV (GPS) RWY 29			KFKA	PRESTON	MN (US)
IAP	VOR/DME-A			K55Y	RUSHFORD	MN (US)
IAP	LOC RWY 30			KONA	WINONA	MN (US)
IAP	NDB RWY 30			KONA	WINONA	MN (US)
IAP	VOR RWY 30			KONA	WINONA	MN (US)
IAP	VOR-A			KONA	WINONA	MN (US)
IAP	ILS OR LOC RWY 18		1	KLSE	LA CROSSE	WI (US)
IAP	NDB RWY 18			KLSE	LA CROSSE	WI (US)
IAP	VOR RWY 13			KLSE	LA CROSSE	WI (US)
IAP	VOR RWY 36			KLSE	LA CROSSE	WI (US)
IAP	RNAV (GPS) RWY 11			KCMY	SPARTA	WI (US)
STAR	JANESVILLE			KORD	CHICAGO	IL (US)
STAR	EAU CLAIRE			KMSP	MINNEAPOLIS	MN (US)
STAR	WILDD			KMSP	MINNEAPOLIS	MN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 11/20/2008

REASON FOR REVISION:
ADDED HOLDING PATTERN 1.
ADDED OBST FOR PATTERN 1.
UPDATED FIX USE.
NODINE VORTAC COORDINATES CHANGED, FIX MOVED 30.88FT SOUTHEAST.
UPDATED UNPLANNED HOLDING OBST.

DEVELOPED BY: **DATE:** 05/01/2008 **OFFICE:** AVN-120 **NAME:** JON DENTON

APPROVED BY: **DATE:** 09/19/2008 **OFFICE:** AVN-120 **NAME:** JOHN BICKERSTAFF

"INFO ONLY"

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZMP
ATC FACILITY: CMY ATCT
OTHER:

QUALITY CHECKED 1

"INFO ONLY"

RADIO FIX AND HOLDING DATA RECORD

NAME: WAUKON VORTAC **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 431648.31N/0913214.50W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	WAUKON	UKN	VORTAC	L							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	E	UKN	VORTAC	082.00	262.00	R	1		2900	17500	4	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (16-1339)	431827.91N/0912718.49W	1622	5D
1	200	TOWER (16-1339)	431827.91N/0912718.49W	1622	5D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000

REMARKS:
PRECIPITOUS TERRAIN EVALUATED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WAUKON			KANE	MINNEAPOLIS	MN (US)
DP	WAUKON			KFCM	MINNEAPOLIS	MN (US)
DP	WAUKON			KMSP	MINNEAPOLIS	MN (US)
DP	WAUKON			KSTP	ST PAUL	MN (US)
EN ROUTE	V138, V218, V246, V398, V411, V77					(US)
IAP	NDB RWY 29			KDEH	DECORAH	IA (US)
IAP	RNAV (GPS) RWY 29			KDEH	DECORAH	IA (US)
IAP	VOR RWY 29		1	KDEH	DECORAH	IA (US)
IAP	NDB RWY 13			KOLZ	OELWEIN	IA (US)
IAP	RNAV (GPS) RWY 17			K3Y2	WEST UNION	IA (US)
IAP	VOR/DME OR GPS-A			K3Y2	WEST UNION	IA (US)
IAP	GPS RWY 31			KCHU	CALEDONIA	MN (US)
IAP	RNAV (GPS) RWY 29			KFKA	PRESTON	MN (US)
IAP	RNAV (GPS) RWY 7			KOVS	BOSCOBEL	WI (US)
IAP	VOR/DME RWY 29			KPDC	PRAIRIE DU CHIEN	WI (US)
IAP	RNAV (GPS) RWY 11			KY51	VIROQUA	WI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 02/11/2010

REASON FOR REVISION:
CHANGED COORDINATES FROM 431648.31N/0913214.51W TO 431648.31N/0913214.50W
ADDED PRECIPITOUS TERRAIN REMARK.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 09/30/2009 **OFFICE:** AVN-120 **NAME:** JERRY MCCULLOUGH

APPROVED BY: **DATE:** **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU, ZMP
ATC FACILITY:
OTHER:

QUALITY CHECKED