Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 04/07/2005	Task #: 2003091910442601003	Request #: 20030919104426
Procedure: RNAV (GPS) RWY 31 AMDT 1		Airport ID: KCIN	**Airport:** ARTHUR N NEU		Reimbursable #:
City: CARROLL	**ST:** IA	GPS #:		Estimated Chart Date: 11/15/2012	FICO #:
Fac ID:	**Fac. Type:** LPV Proc-S	**Specialist:** MARK BURTZ			

P1

Procedure Review

LPV

MAG VAR

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/07/2012	07/05/2012	JILL OLSON	
QA:	07/05/2012	07/11/2012	STEVEN SZUKALA	
Liaison:	07/11/2012		K. Spurlin	P1; MAGVAR; LPV

Procedure Comments:

Remark Type: INFORMATION

PKG 1 of 2

CARROLL;, IA; ARTHUR N NEU (KCIN); RNAV (GPS) RWY 31, AMDT 1; ENROUTE-NO; FC BY 10/2/12; PUB 11/15/12

ATTACHED FORMS: 8260-3, 8260-9, 8260-10.
8260-2(S): AMABE, REV 2; COHGI, REV 2; DOXNO, REV 1; YUGVU, ORIG; AFECU, REV 1 (CANCEL); BAJZU, REV 1 (CANCEL).

REQUEST FLIGHT CHECK VALIDATION OF RWY 31, 3, 21 VGSI.

WAAS	APP CRS	Rwy Idg	5506
CH 49130 W31A	315°	THRE	1203
		Apt Elev	1204

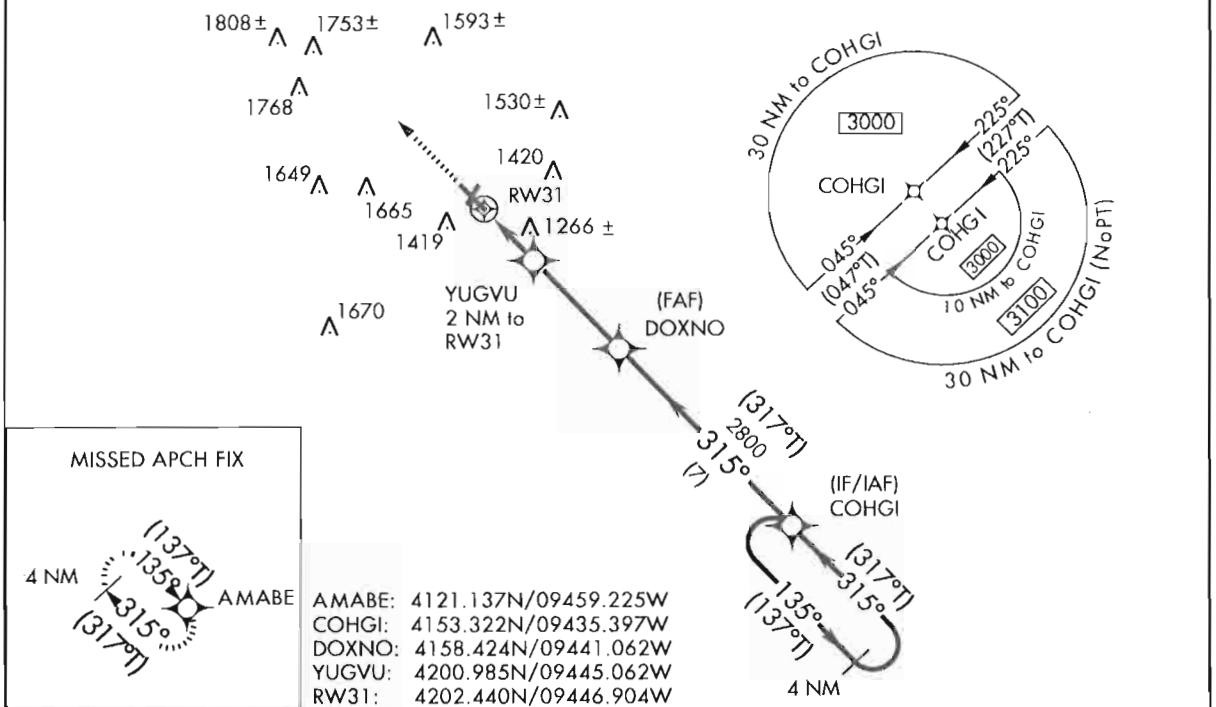
RNAV (GPS) RWY 31

CARROLL/ARTHUR N. NEU (CIN)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Audubon altimeter setting. When local altimeter setting not received, use Audubon altimeter setting and increase all DA 62 feet and all MDA 80 feet and increase LNAV Cat C visibility by 1/8 mile.

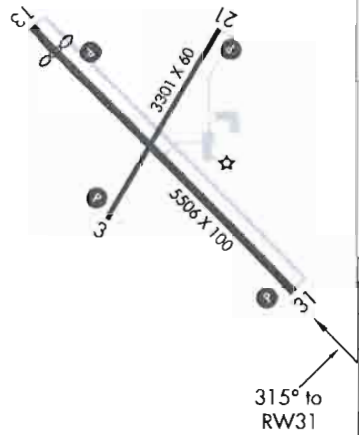
MISSED APPROACH: Climb to 3000 direct AMABE and hold.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
118.025	134.0 288.3	122.8 (CTAF) L

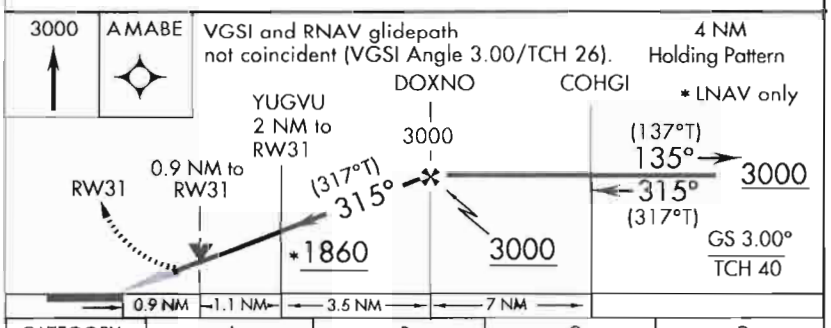


ELEV 1204 THRE 1203

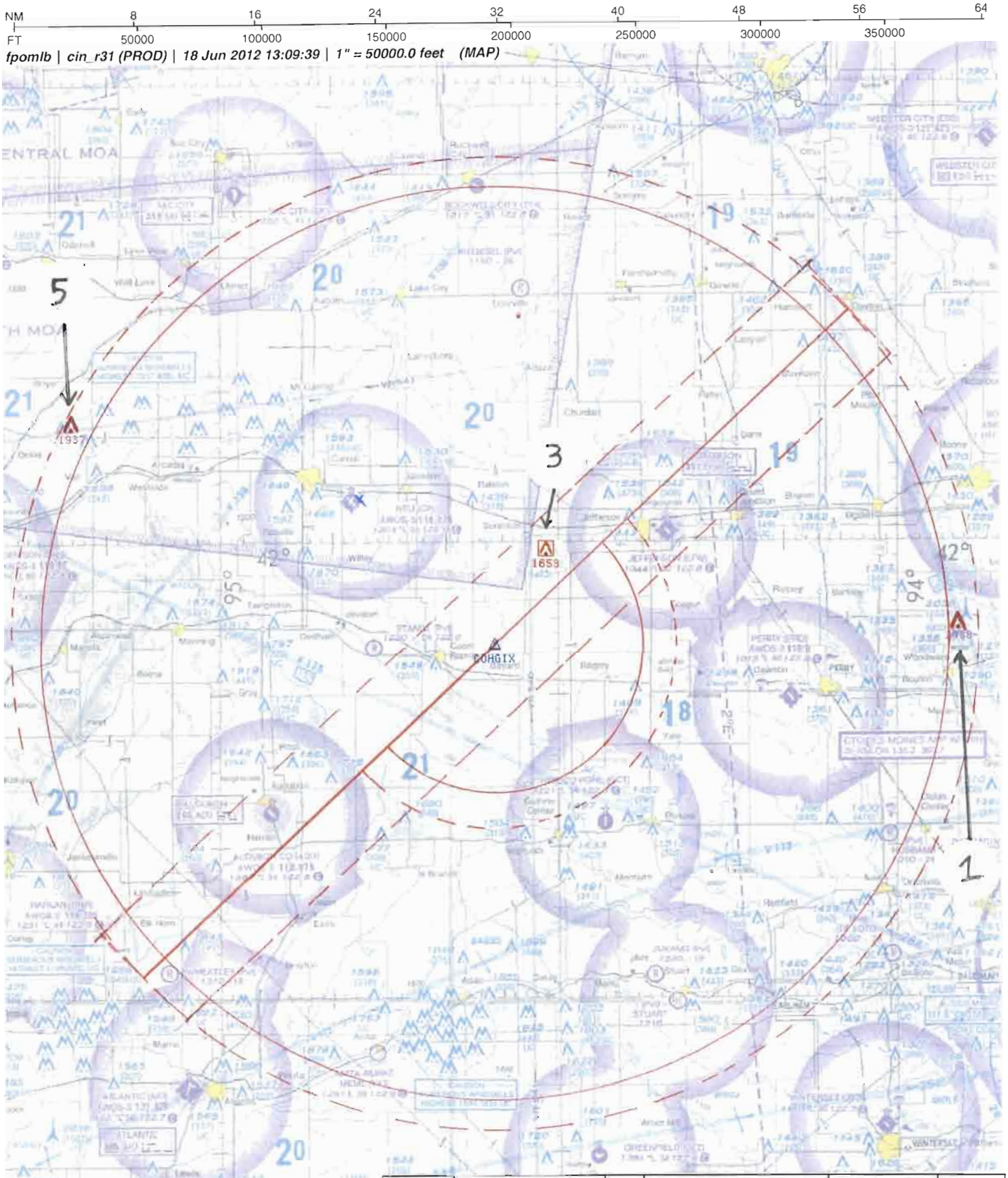
PROTOTYPE-NOT FOR NAVIGATION



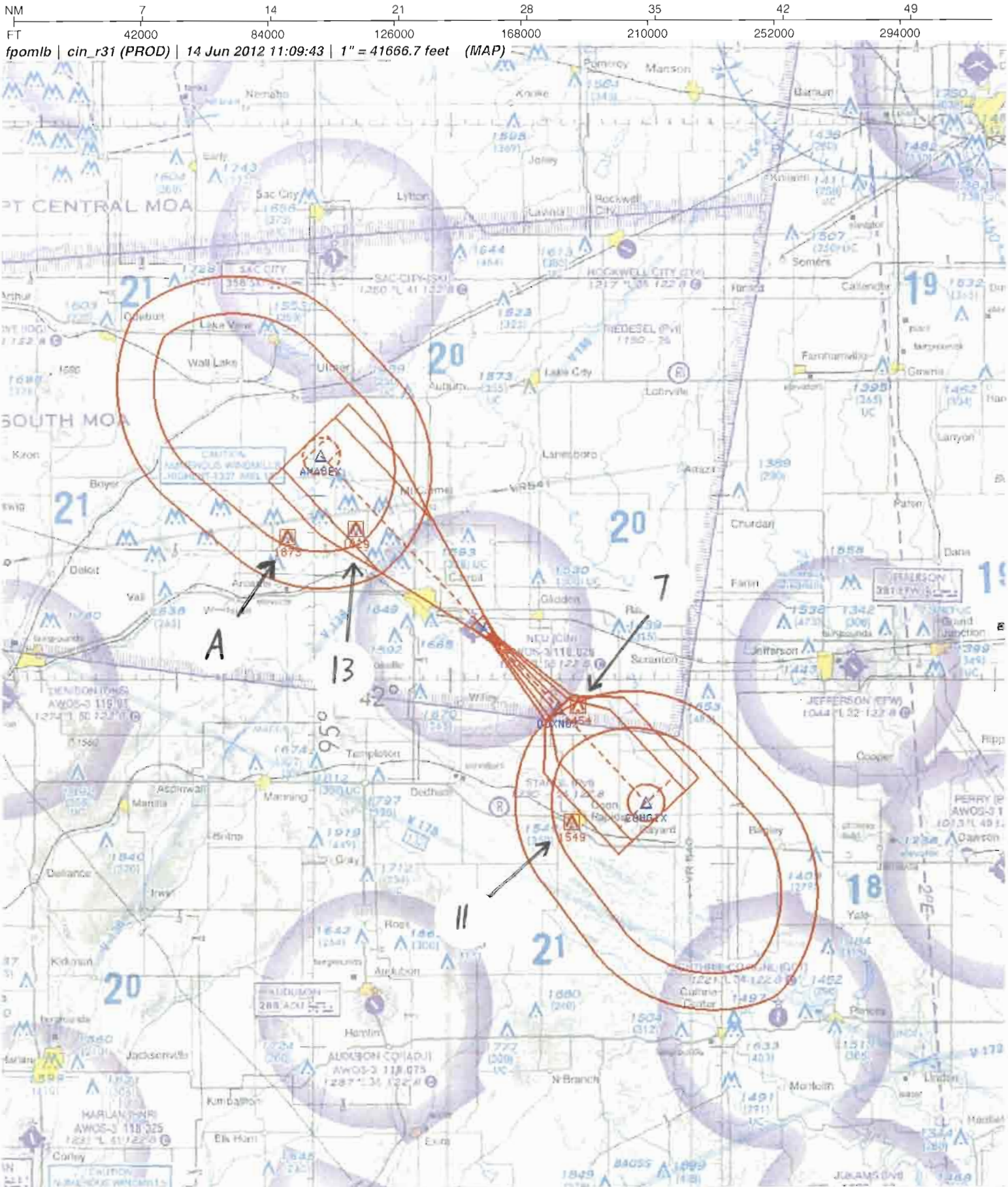
MIRL Rwys 13-31 and 3-21 L
REIL Rwys 3, 13, 21 and 31 L



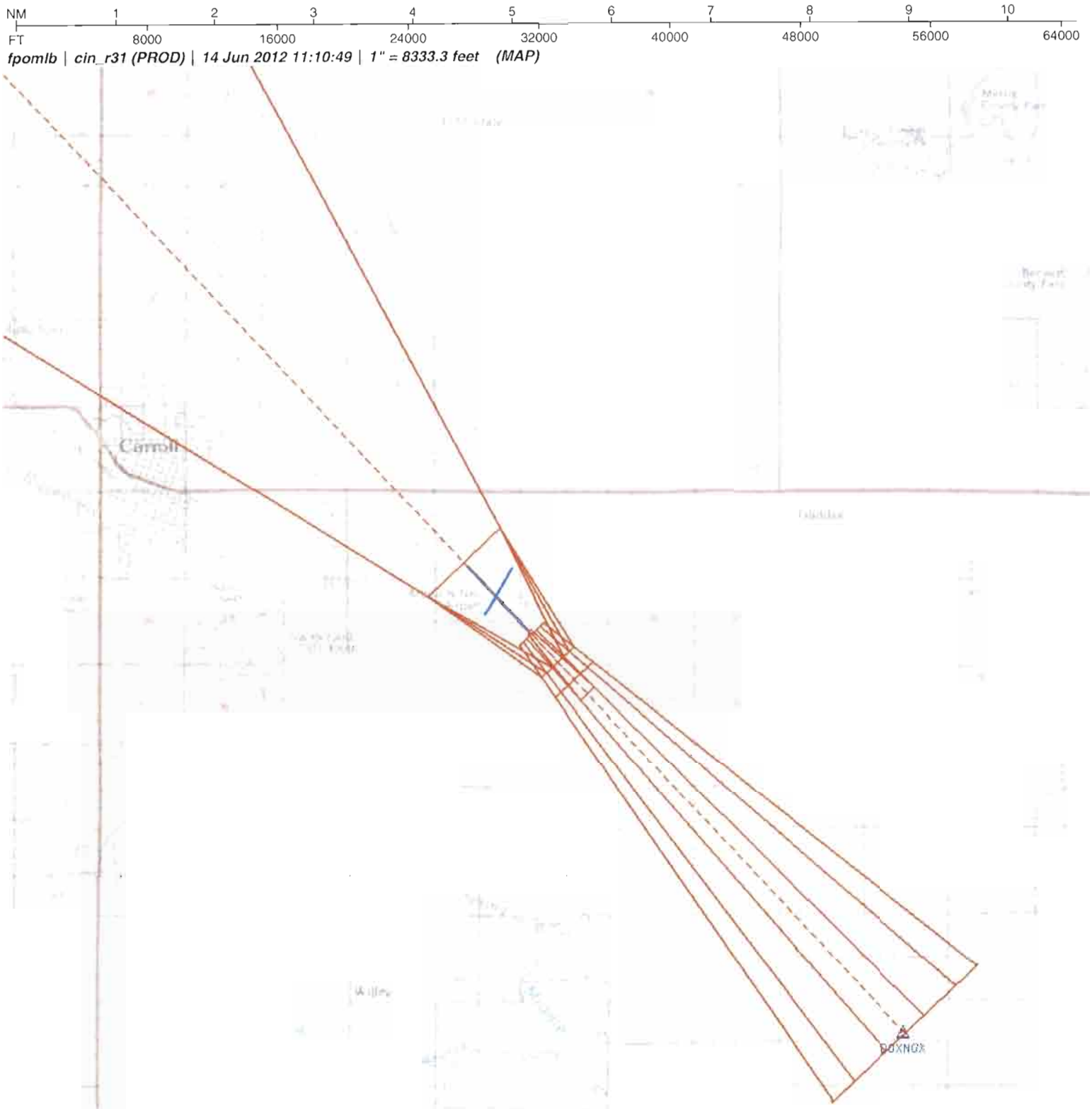
CATEGORY	A	B	C	D
LPV DA	1453-1 250 (300-1)			NA
LNAV/ VNAV DA	1453-1 250 (300-1)			NA
LNAV MDA	1520-1 317 (400-1)			NA
CIRCLING	1660-1 456 (500-1)	1700-1 496 (500-1)	1700-1½ 496 (500-1½)	NA



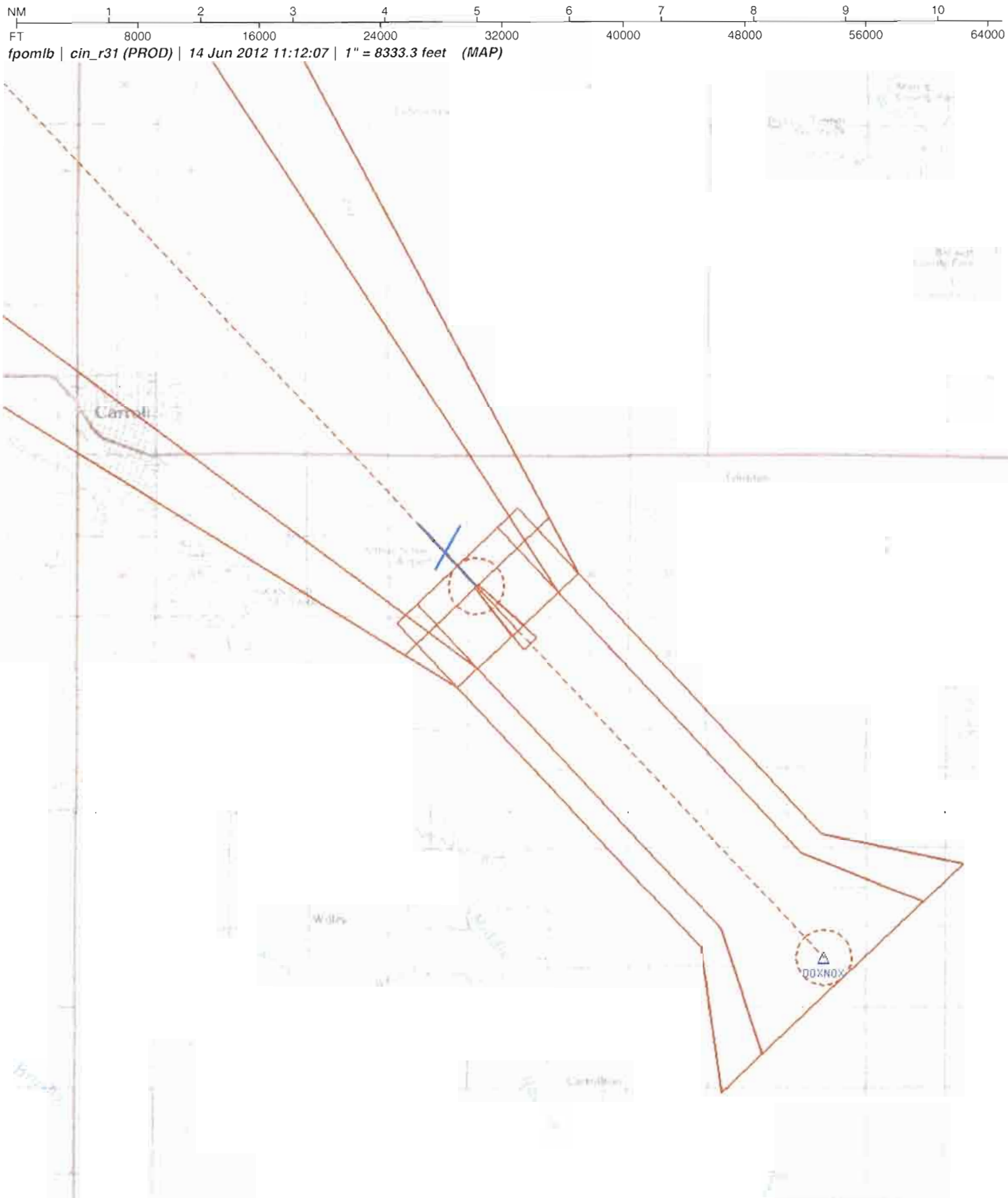
Airport ID:	KCIN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	ARTHUR N. NEU	1	225/30 CW 45/30 TO 225/10 CW 45/10	TOWER	2038
City:	CARROLL	3	225/10 CW 45/10 TO COHGI	TOWER	1653
State:	IA	5	45/30 CW 225/30 TO COHGI	WINDMILL	1937
Proc ID:	RNAV (GPS) RWY 31				
Amdt #:	AMDT 1				
Scale:	1" = 50,000'				



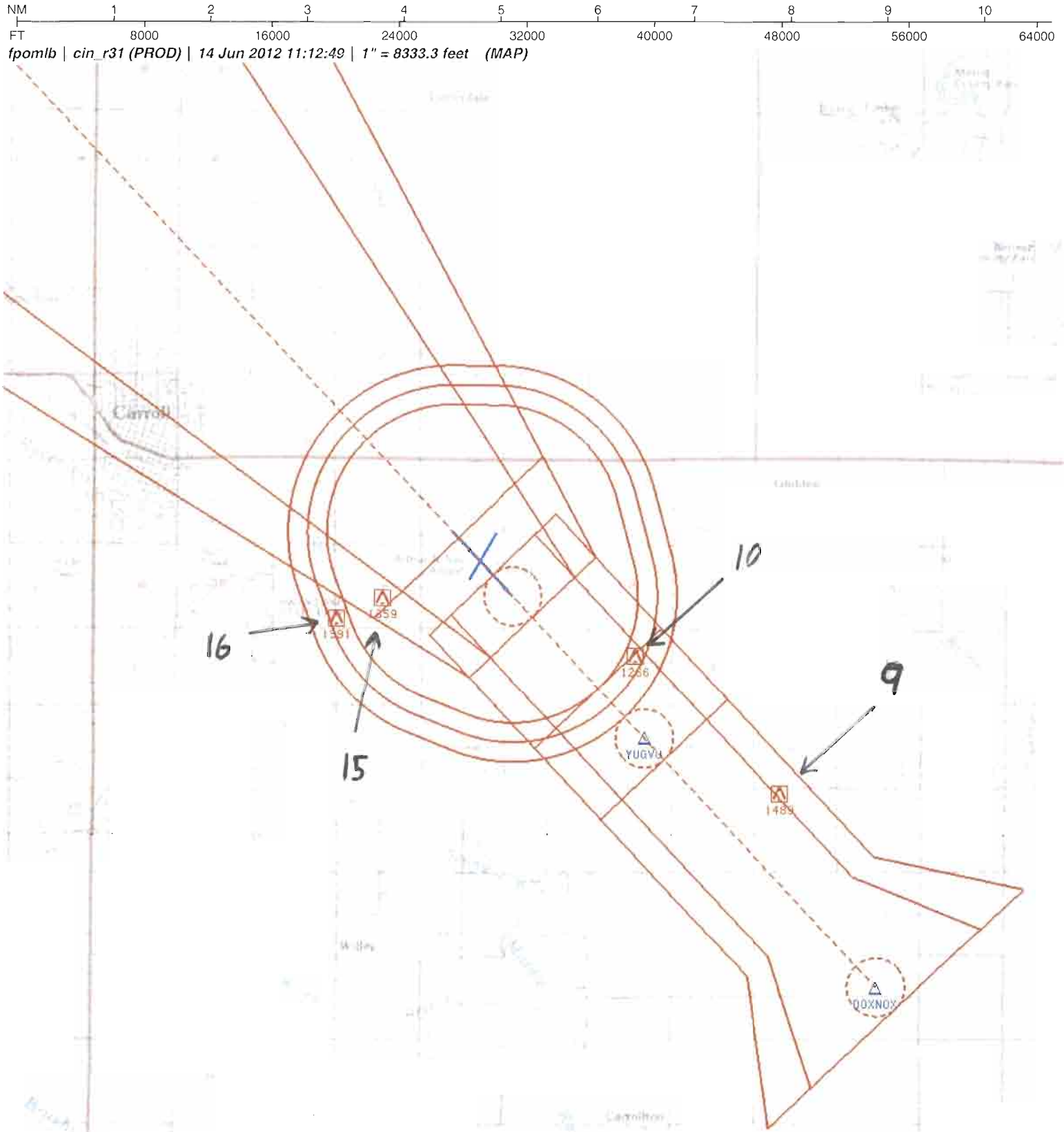
Airport ID:	KCIN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	ARTHUR N. NEU	11	HIL	TOWER	1549
City:	CARROLL	7	INTERMEDIATE	AAO	1454
State:	IA	13	MISSED APCH - LVL SFC	WINDMILL	1829
Proc ID:	RNAV (GPS) RWY 31	A	MISSED APCH - HOLDING	WINDMILL	1873
Amdt #:	AMDT 1				
Scale:	1:500,000				



Airport ID:	KCIN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	ARTHUR N. NEU		FINAL - LPV	ASC	
City:	CARROLL				
State:	IA				
Proc ID:	RNAV (GPS) RWY 31				
Amdt #:	AMDT 1				
Scale:	1:100,000				



Airport ID:	KCIN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	ARTHUR N. NEU		FINAL - LNAV/VNAV	ASC	
City:	CARROLL				
State:	IA				
Proc ID:	RNAV (GPS) RWY 31				
Amdt #:	AMDT 1				
Scale:	1:100,000				



Airport ID:	KCIN	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	ARTHUR N. NEU	9	FINAL - LNAV	AAO	1489
City:	CARROLL	10	FINAL - STEPDOWN	TREE	1266
State:	IA	15	CIRCLING - CAT A	TREE	1359
Proc ID:	RNAV (GPS) RWY 31	16	CIRCLING - CATS B/C	TREE	1391
Amdt #:	AMDT 1				
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
COHGI (IF/IAF)	DOXNO (FB)	314.78 / 7.00	3000
DOXNO (FAF)	YUGVU/2.00 NM TO RW31 (FB)	314.71 / 3.52	
YUGVU/2.00 NM TO RW31	RW31 (MAP) (FO)	314.67 / 2.00	
RW31 (MAP)	1453 MSL	314.67	
1453 MSL	AMABE (FO)		3000

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

CLIMB TO 3000 DIRECT AMABE AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SE COHGI, LT, 314.78 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 314.71 FAF: DOXNO DIST FAF TO MAP: 5.52 THLD: 5.52
4. MIN. ALT: COHGI 3000, DOXNO 3000, YUGVU/2.00 NM TO RW31 1860*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 3000 GS ALT AT: DOXNO 3000 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR
8. MSA FROM:

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 134.52 INBOUND.
CHART FAS OBST: 1266 TREE 420145N/0944511W
DISTANCE TO THLD FROM 250 HATH: 0.66 NM.
CHART VDP AT 0.91 MILES TO RW31*
*LNAV ONLY.
WAAS CHANNEL # 49130
REFERENCE PATH ID: W31A
LTP HAE: 338.3 M

MAG VAR: 2E EPOCH YEAR: 2015

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	1453	1	250	1453	1	250	1453	1	250		NA				
LNAV/VNAV DA	1453	1	250	1453	1	250	1453	1	250		NA				
LNAV MDA	1520	1	317	1520	1	317	1520	1	317		NA				
CIRCLING	1660	1	456	1700	1	496	1700	1 1/2	496		NA				

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F).
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
*LNAV ONLY
(SEE FORM 8260-10)

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 1204 THRE: 1203 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
CARROLL, IA	ARTHUR N NEU	RNAV	RNAV (GPS) RWY 31, AMDT 1	AMDT: ORIG
				DATED 02/21/2002

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, AMGR**

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:
JILL OLSON (MARK BURTZ)	**AJV-353**	**06/13/2012**

APPROVED BY

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

CHANGES:

1. CHANGED MAGVAR FROM 4E 2000, TO 2E 2015.
2. REMOVED AFECU AND BAJZU IAFS.
3. CHANGED COURSE/DISTANCE FROM COHGI TO DOXNO FROM 312.75/5.00 TO 314.78/7.00
4. UPDATED FINAL COURSE FROM 312.70 TO 314.71.
5. INCREASED DISTANCE FAF TO MAP FROM 5.00 TO 5.52.
6. CHANGED MISSED APPROACH FROM " CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT COHGI WP AND HOLD" TO "CLIMB TO 3000 DIRECT AMABE AND HOLD".
7. CHANGED VDP DISTANCE FROM R31 FROM 1.29 TO 0.91.
8. ADDED MISSED APPROACH HOLDING PATTERN AND VG/WAAS INFORMATION TO ADDITIONAL FLIGHT DATA.
9. UPDATED HIL COURSE FROM 312.70 TO 314.78.
10. ADDED SDF YUGVU 2.00NM FROM R31.
11. ADDED LPV AND LNAV/VNAV MINIMA.
12. LOWERED LNAV MINIMA/HAT FROM 1640/437 TO 1520/317 HATH AND LNAV CAT C VIS FROM 1 1/4 TO 1.
13. LOWERED CIRCLING MDA/HAA FROM 1720/516 ALL CATS TO CAT A 1660/456, CAT B/C 1700/496.
14. ALTERNATE MINS ADDED.
SEE 8260-10

REASONS:

1,2,6,11,20. FPT REQUEST.
3,4,9. MAGVAR UPDATE/CURRENT EVALUATION.
5. MOVED FAF TO PFAF LOCATION.
7. LOWERED LNAV MDA.
8. LPV AND LNAV/VNAV MINIMA ADDED.
10. TO PROVIDE LOWER MINIMA.
12,13. PER CURRENT EVALUATION/FPT REQUESTS LOWEST MINS POSSIBLE.
14. ALTERNATE MINS AUTHORIZED.
15,16,17. CRITERIA.
18,19. FPT REQUEST DUE TO LEG LENGTH REQUIREMENTS.

PDF EDITS:
ADDED (FAF) ON TERMINAL ROUTES FOR DOXNO.
REMOVED 1860* FROM TERMINAL ROUTES ALTITUDE FOR SDF.
SEE 8260-10

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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NOTES, (CONT.):
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING AUDUBON ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AUDUBON ALTIMETER SETTING AND INCREASE ALL DA 62 FEET AND ALL MDA 80 FEET AND INCREASE LNAV CAT C VISIBILITY 1/8 MILE.

TAA

	FROM	TO	ALT
1.	225/30 CW 045/30 (NOPT)	225/10 CW 045/10	3100
2.	225/10 CW 045/10	COHGI (IF/IAF) (FB)	3000
3.	045/30 CW 225/30	COHGI (IF/IAF) (FO)	3000

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1204 THRE: 1203	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
CARROLL, IA	AIRPORT NAME: ARTHUR N NEU	RNAV	RNAV (GPS) RWY 31, AMDT 1	AMDT: ORIG
				DATED: 02/21/2002

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:

CHANGES CONT.
15. REMOVED GPS OR RNP -0.3 REQUIRED NOTE. 16. ADDED BARO-VNAV, VDP, VGSI, AND ALTERNATE ALTIMETER NOTES. 17. CHANGED ALL REFERENCE FROM TDZE TO THRE. 18. CHANGED TAA DESIGN FROM 223/30 CW 043/30 TO AMABE TO 225/30 CW 045/30 TO COHGI. 19. REPLACED BAJZU AND AFECU TAAS WITH SINGLE PT REQUIRED TAA FROM 045/30 CW 225/30 TO COHGI. 20. RAISED PFAF ALTITUDE FROM 2800 TO 3000.

REASONS:

REASONS CONT.
CHANGED ALTITUDE FOR MISSED APPROACH IN TERMINAL ROUTES FROM 1453 TO 3000.
REMOVED 020 AND 2.0 FROM MISSED APPROACH ARINC CODING.

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCIN
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	420226.3830N
LTP/FTP LONGITUDE	0944654.2100W
LTP/FTP ELLIPSOIDAL HEIGHT	+03383
FPAP LATITUDE	420331.1900N
FPAP LONGITUDE	0944816.3200W
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	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	FB6A5067

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03666
FPAP ORTHOMETRIC HEIGHT	+03666

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 1204 THRE: 1203 / AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
CARROLL, IA	ARTHUR N NEU	RNAV	RNAV (GPS) RWY 31, AMDT 1	AMDT: ORIG
				DATED: 02/21/2002

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:

QUALITY 2 CHECKED

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ARINC PACKET - 424-18 - RNAV (GPS)

```
          1         2         3         4         5         6         7         8         9         0         1         2         3
WP        12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAEAENRT   AMABE K30    W     N42120819W094591351                    E0022     NAR           AMABE
          SUSAEAENRT   COHGI K30    W     N41531932W094352380                    E0019     NAR           COHGI
          SUSAEAENRT   DOXNO K30    W     N41582544W094414955                    E0020     NAR           DOXNO
          SUSAEAENRT   YUGVU K30    W     N42005907W094450370                    E0021     NAR           YUGVU

          1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT   12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP KCINK3ACIN     0     055YHN42024800W094471930E002001204         1800018000C    MNAR     ARTHUR N NEU

          1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT   12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP KCINK3FR31   ACOHGI 010COHGIK3EA0EE AL   HF                    31480040    + 03000     18000                A JS
          SUSAP KCINK3FR31   R      010COHGIK3EA0E  I    IF                                + 03000     18000                A JS
          SUSAP KCINK3FR31   R      020DOXNOK3EA1E  F 051TF                    31480070    + 03000                          A JS
          SUSAP KCINK3FR31   R      020DOXNOK3EA2WALPV       ALNAV/VNAV ALNAV                                               JS
          SUSAP KCINK3FR31   R      021YUGVUK3EA0E S  031TF                    31470035    V 0186001880        -300         A JS
          SUSAP KCINK3FR31   R      030RW31 K3PG0GY M 031TF                    31470020      01243             -300         A JS
          SUSAP KCINK3FR31   R      040         0  M     CA                    3147        + 01453                          A JS
          SUSAP KCINK3FR31   R      050AMABEK3EA0EY      DF                              + 03000                          A JS
          SUSAP KCINK3FR31   R      060AMABEK3EA0EE  R   HM                    13450040    + 03000                          A JS

          1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY    12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP KCINK3GRW31    0055063147 N42022638W094465421+0000    +03383012030000400100R

          1         2         3         4         5         6         7         8         9         0         1         2         3
PP        12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP KCINK3PR31   RW31 001 0000W31A0N4202263830W09446542100+033830300N4203311900W094481632001067510720004000F400500FB6A5067
          SUSAP KCINK3PR31   RW31 002E      +03666+03666LPV       49130
```

CITY AND STATE	ELEVATION: 1204 THRE: 1203	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CARROLL, IA	AIRPORT NAME: **ARTHUR N NEU**	**RNAV**	**RNAV (GPS) RWY 31, AMDT 1**	AMDT: **ORIG**
				DATED: **02/21/2002**

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:

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	COHGI	COHGI	010	IAF	HF	L	FO		314.8(316.8T)	004.0	AA 03000	
		COHGI	010	FACF	IF		FB				AA 03000	
		DOXNO	020	FAF	TF		FB	0.5	314.8(316.8T)	007.0	AA 03000	
		YUGVU	021	SDF	TF		FB	0.3	314.7(316.7T)	003.5	AA 01860 GS 01880	
		RW31	030	MAP	TF		FO	0.3	314.7(316.7T)	002.0	AT 01243	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		314.7(316.7T)		AA 01453	
	AMABE	050		DF		FO				AA 03000	
	AMABE	060		HM	R	FO		134.5(136.5T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AMABE	N421208.19	W0945913.51	N4212.137	W09459.225
	COHGI	N415319.32	W0943523.80	N4153.322	W09435.397
	DOXNO	N415825.44	W0944149.55	N4158.424	W09441.826
	YUGVU	N420059.07	W0944503.70	N4200.985	W09445.062
	RW31	N420226.38	W0944654.21	N4202.440	W09446.904

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW31	01203	40

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 1204 THRE: 1203	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CARROLL, IA	AIRPORT NAME: ARTHUR N NEU	RNAV	RNAV (GPS) RWY 31, AMDT 1	AMDT: ORIG
				DATED: 02/21/2002

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.
STRAIGHT-IN AREA	225/30 CW 045/30	225/10 CW 045/10	1. TOWER (19-000837)	415409.00N/0935416.00W	2038 (5D)	1000	AT62	3100
			2. TERRAIN	413306.00N/0943957.00W	1520 (1500)		AS1500	3000
STRAIGHT-IN AREA	225/10 CW 045/10	COHGI	3. TOWER (19-001360)	415854.00N/0943113.00W	1653 (5D)	1000	AT347	3000
			4. TERRAIN	414551.00N/0944357.00W	1411 (1400)		AS1500	2900
STRAIGHT-IN AREA	045/30 CW 225/30	COHGI	5. WNDMLL (19-003019)	420724.77N/0951248.20W	1937 (5E)	1000		3000
			6. TERRAIN	415527.00N/0950051.00W	1542 (1500)		AS1500	3000
INTERMEDIATE: LNAV	COHGI (IF/IAF)	DOXNO	7. AAO	415809.00N/0944021.00W	1454 (4E)	500	AC98 AT948	3000
			8. TERRAIN	415809.00N/0944021.00W	1254 (1300)		AS1500	2800
FINAL: LPV	DOXNO	RW31				ASC	XP50	1453/250
FINAL: LNAV/VNAV	DOXNO	RW31				ASC		1453/250
FINAL: LNAV	DOXNO	YUGVU/2.00 NM TO RW31	9. AAO	420019.74N/0944310.25W	1489 (2C)	250	RA62 DG59	1860
FINAL: LNAV STEPDOWN	YUGVU/2.00 NM TO RW31	RW31	10. TREE (KCINT0129)	420144.54N/0944511.46W	1266 (1A)	250		1520
2. HOLD-IN-LIEU-OF-PT	COHGI	P-5	11. TOWER (19-002093)	415152.00N/0944051.00W	1549 (4D)	1000	AT451	3000
			12. TERRAIN	415006.00N/0944048.00W	1306 (1300)		AS1500	2800
3. MISSED APPROACH MAP:	DA / DA / RW31	AMABE				ASC		3000
			13. WNDMLL (19-020999)	420747.33N/0945639.94W	1829 (5D)	1000		2900
ELEV:	1266/1303/1420		14. TERRAIN	421103.00N/0950051.00W	1421 (1400)		AS1500	2900

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL		15. TREE (KCINT0655)	420220.38N/0944842.67W	1359 (1A)	300		1660
CATEGORY A	1.3 NM	350	456							
CATEGORY B	1.5 NM	450	496		16. TREE (KCINT0179)	420207.68N/0944920.08W	1391 (1B)	300		1700
CATEGORY C	1.7 NM	450	496		16. TREE (KCINT0179)	420207.68N/0944920.08W	1391 (1B)	300		1700
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

CHECKED

CITY AND STATE	ELEVATION: 1204 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
CARROLL, IA	ARTHUR N NEU	RNAV	RNAV (GPS) RWY 31, AMDT 1	ACE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZMP ARTCC **FOD FSS** SATISFACTORY ON:	[ ] N W S OTHER: **AWOS-3** [ ] F A A [ ] A / C	SOURCE: **KCIN / KADU** DISTANCE: **0 / 21.53** HOURS REMOTE OPERATION: **24 / BACKUP**
[X] V H F [X] U H F [ ] H F	LOCATION:	ADJUSTMENT: **0 / 62**

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

5. APPROACH & RUNWAY LIGHTING		
		ALS
		(S) SALS
		MALS
		HIRL
	X	**MIRL 31 (PCL), 21 (PCL), 13 (PCL), 03 (PCL)**
	X	**REIL 31 (PCL), 21 (PCL), 13 (PCL), 03 (PCL)**
		TDZ
		C/LINE
	X	**OTHER (SPECIFY)** **PAPI-2L 31 (PCL), 21 (PCL), 13 (PCL), 03 (PCL)**

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT **NPI-G 31, 13**	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: **3.00**	ELEV RWY THRESHOLD: **1202.9**
	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: **JILL OLSON (MARK BURTZ)**	DATE: **06/13/2012**
TITLE: **AERONAUTICAL INFORMATION SPECIALIST**	OFFICE: **AJV-353**

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

KCIN AND KADU AWOS-3 BOTH ON SERVICE A.

INTERMEDIATE OBST & TERRAIN THE SAME FOR ALL FINAL TYPES.

AVERAGE COLD TEMPERATURE BASED ON STANDARD -30C ISA DEVIATION. HISTORICAL TEMPERATURE DATA NOT AVAILABLE.

PER ADO DESIGN LIMITATION: MINIMUM HATH IS 250'; MINIMUM VIS IS 1 MILE.

RASS PRESSURE PATTERNS SAME
KCIN 1204, KADU 1287
RA = 61.2.
SEE ATTACHED AIRSPACE LETTER.

100 FT VEGETATION USED PER FPT.

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

VGSI DATA: 3.00/26.2

XP: 250 MINIMUM HATH PER FPT.

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: AMABE **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 421208.19N/0945913.51W **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	NW		WP	314.52	134.52	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	WINDMILL (19-002967)	420721.13N/0950139.66W	1873	5D

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 13		1	KCIN	CARROLL	IA (US)
IAP	RNAV (GPS) RWY 31		1	KCIN	CARROLL	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
FIX NAME RETAINED PER ATC OPERATIONAL REQUIREMENT.
FIX MOVED 2.52NM NW, UPDATED LAT/LON.
REMOVED FAC 1 FROM FIX MAKEUP.
UPDATED HOLDING COURSE INBOUND.
CHANGED FROM 1 MINUTE LEG TIME TO 4 DME HOLD.
CHANGED HOLDING MAX ALT FROM 5000 TO 6000.
CHANGED HOLDING MAX TEMPLATE FROM 5 TO 6.
UPDATED HOLDING CONTROLLING OBSTACLE.
MOVED HOLDING RESTRICTED TO ESTABLISHED PATTERN FROM REMARKS TO RESTRICTIONS.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/14/2012 **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:
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: COHGI **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 415319.32N/0943523.80W **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	SE		WP	134.78	314.78	L		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (19-002093)	415152.00N/0944051.00W	1549	4D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST (ZMP).

HOLDING RESTRICTIONS:
HOLDING RESTRICTED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 13		1	KCIN	CARROLL	IA (US)
IAP	RNAV (GPS) RWY 31		1	KCIN	CARROLL	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
FIX NAME RETAINED PER ATC OPERATIONAL REQUIREMENT.
FIX MOVED 2.52 NM SW, UPDATED LAT/LON.
REMOVED FAC 1.
UPDATED HOLDING CRS INBOUND, CHANGED FROM TIMED HOLD TO 4 DME.
CHANGED MAX HOLDING ALT TO 6000, CHANGED MAX TEMPLATE TO 6.
UPDATED HOLDING CONTROLLING OBSTACLE.
ADDED PRECIPITOUS TERRAIN REMARK.
MOVED HOLDING RESTRICTED TO ESTABLISHED PATTERN FROM REMARKS TO HOLDING RESTRICTIONS.

DEVELOPED BY: **DATE:** 06/14/2012 **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:
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DOXNO **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 415825.44N/0944149.55W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 31			KCIN	CARROLL	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
FIX MOVED .52 NM SW TO PFAF LOCATION.
UPDATED LAT/LON.
REMOVED FAC 1.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/14/2012 **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:
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YUGVU **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 420059.07N/0944503.70W **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 31			KCIN	CARROLL	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 11/15/2012

DEVELOPED BY: **DATE:** 06/14/2012 **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:
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: AFECU **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 415835.16N/0943249.42W **TYPE:** WP

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	COHGI					046.75	5.00				17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ARTHUR N NEU - RNAV RWY 31 (FB)			KCIN	CARROLL	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2000

REASON FOR REVISION:
TO CORRECTLY ALIGN 90 DEG TO IF/IAF (COHGI WP)

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

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BAJZU **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 415143.87N/0944234.82W **TYPE:** WP

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	COHGI					226.75	5.00				17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ARTHUR N NEU - RNAV RWY 31 (FB)			KCIN	CARROLL	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2000

REASON FOR REVISION:
TO CORRECTLY ALIGN 90 DEG TO IF/IAF (COHGI WP).

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

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

SIGNATURE:

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

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **CARROLL** STATE: **IA**

AIRPORT NAME: **ARTHUR N NEU** ID: **KCIN**

PROCEDURE: **RNAV (GPS) RWY 31** AMDT: **1**

DOCKET # :
(96-AXX-X/Required/Not Required)

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

1. Distance from **THLD** to 1000' point **3.32**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **316.71**
4. High Terrain in **FINAL** segment containing 1000' point **1280**
5. Distance from **THLD** to 1500' point **5.12**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.76**
7. True Course of **FINAL** segment containing 1500' point **316.71**
8. High Terrain in **FINAL** segment containing 1500' point **1280**
9. Threshold Coordinates (if straight-in) ... **420226.38N** / **0944654.21W**
10. ARP Coordinates ..... **420248.00N** / **0944719.30W**
11. Runway Approach End and distance furthest from ARP.....RWY **31**
    Distance **0.48** NM
12. FAF Coordinates ..... **415825.44N** / **0944149.55W**
    (Click to Select)

REMARKS: Approach/Drawing attached. COHGI (IF/IAF): 415319.32N/0943523.80W

Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Larry Strout, Manager, Terminal Procedures & Charting Services, Central Team, AJV-353

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

RNAV (GPS) RWY 13, Amdt 1
RNAV (GPS) RWY 31, Amdt 1
Takeoff Minimums and Obstacle DP, Amdt 1

Estimated Chart Date: 11/15/2012

Runway Numbers are not affected.

Please publish these changes in the National Flight Data Digest.

IOWA

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Carroll	Arthur N Neu	Airport	KCIN / CIN	Old 4° East New 2° East	2015

If you have any questions please notify Larry H. Strout, larry.h.strout@faa.gov (301) 427-4750

CONCURRENCES
ROUTING SYMBOL AJV-34 SBaker
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-353 JOlson
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-353 LStrout
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-341 JAlfonso
INITIALS/SIG
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cc: FTW-FPT, AVJ-3rf
AJV-353; LStrout :sbj::x7537:06/08/2012 :U:\AVN100\100Public\MAGVAR\MAGVAR Letters 2012\MV Request MV Change for Arthur N Neu, Carroll, IA KCIN)
Requestor:MBurtz, AJW-3762:RSteward, Evaluated By:LFortier