Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 01/31/2012	Task #: 2012013124994401004	Request #: 20120131249944
Procedure: SID BACEN (RNAV) ONE CHICAGO IL KORD		Airport ID: KORD	Airport: CHICAGO O'HARE INTL		Reimbursable #:
City: CHICAGO	ST: IL	GPS #:		Estimated Chart Date: 01/10/2013	FICO #:
Fac ID:	Fac. Type: Proc D	Specialist: BEV L BORDY			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	05/22/2012	09/19/2012	JILL OLSON	
QA:	08/23/2012			
Liaison:			Spurlin	APPROVAL REQUEST - WAIVER

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

pkg 2 of 5

CHICAGO, IL CHICAGO O'HARE INTL (KORD) BACEN ONE (RNAV) (SID) ENROUTE-YES FC: 11.13.12 PUB: 1.10.13

ATTACHED FORMS: 8260-15B; 8260-15C; 8260-2(S): BACEN, ORIG; BEKKI, REV 1; BLOKR, REV 1; BRBIE, ORIG; (INFO ONLY) ROBERTS (RBS) VDME, REV 10.

CONTACT: JILL OLSON/STEVE BARNETT -AVJ-353 LEADS, 405.954.4014 / 405.954.9307.

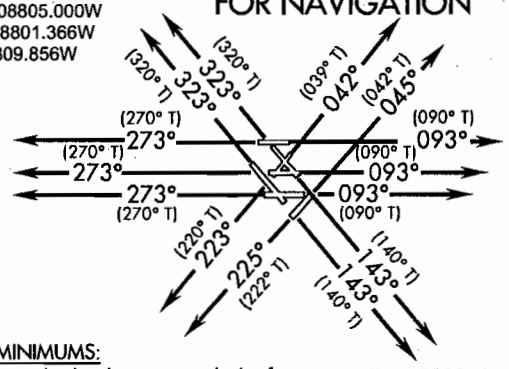
BACEN ONE DEPARTURE

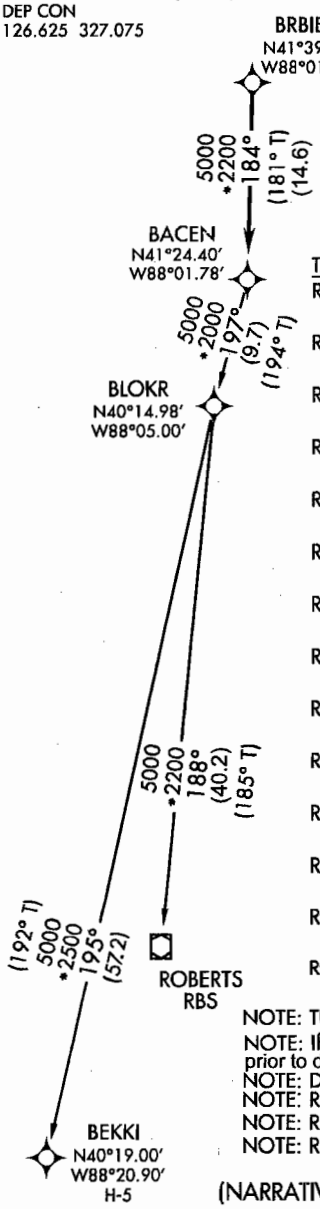
CHICAGO O'HARE INTL (ORD)
CHICAGO, ILLINOIS

ATIS
135.4 282.255
GND CON
121.75 (Outbound) 226.675
TOWER
128.15 (Rwy 9L/27R)
120.75 132.7 348.0 (Center)
DEP CON
126.625 327.075

BACEN 4124.400N/08801.783W
BEKKI 4019.000N/08820.900W
BLOKR 4114.983N/08805.000W
BRBIE 4139.050N/08801.366W
RBS 4034.902N/08809.856W

PROTOTYPE: NOT FOR NAVIGATION





TAKEOFF MINIMUMS:

Rwys 4L Standard with minimum climb of 547' per NM to 3000, then minimum climb of 350' to 4000.
Rwys 4R: Standard with minimum climb of 690' per NM to 3000, then minimum climb of 350' to 4000.
Rwys 9L Standard with minimum climb of 570' per NM to 3000, then minimum climb of 350' to 4000.
Rwys 9R: Standard with minimum climb of 541' per NM to 3000, then minimum climb of 350' to 4000.
Rwys10: Standard with minimum climb of 672' per NM to 3000, then minimum climb of 350' to 4000.
Rwys14L Standard with minimum climb of 547' per NM to 3000, then minimum climb of 350' to 4000.
Rwys 14R Standard with minimum climb of 670' per NM to 3000, then minimum climb of 350' to 4000.
Rwys 22L: Standard with minimum climb of 807' per NM to 3000, then minimum climb of 350' to 4000.
Rwys: 22R Standard with minimum climb of 521' per NM to 3000, then minimum climb of 350' to 4000.
Rwy 27L: Standard with minimum climb of 532' per NM to 3000, then minimum climb of 350' to 4000.
Rwy 27R: Standard with minimum climb of 631' per NM to 3000, then minimum climb of 350' to 4000.
Rwy 28: Standard with minimum climb of 685' per NM to 3000, then minimum climb of 350' to 4000.
Rwy 32L: Standard with minimum climb of 631' per NM to 3000, then minimum climb of 350' to 4000.
Rwys 32R Standard with minimum climb of 587' per NM to 3000, then minimum climb of 350' to 4000.

NOTE: TURBOJET departures maintain 250 KIAS until advised by ATC.
NOTE: If unable to accept climb gradient, advise ATC as soon as possible prior to departure.
NOTE: DME/DME/IRU or GPS Required.
NOTE: RNAV 1
NOTE: RADAR Required.
NOTE: ROBERTS TRANSITION: For aircraft inbound to CMI or STL, or as assigned by ATC

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF Rwy 4L: Climb heading 042° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 4R: Climb heading 045° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 9L: Climb heading 093° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 9R: Climb heading 093° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 10: Climb heading 093° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 14L: Climb heading 143° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 14R: Climb heading 143° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 22L: Climb heading 225° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 22R: Climb heading 225° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 27L: Climb heading 273° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 27R: Climb heading 273° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 28: Climb heading 273° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 32L: Climb heading 323° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .
TAKEOFF Rwy 32R: Climb heading 323° or as assigned by ATC to 1180, expect vectors to BRBIE. Thence . . .

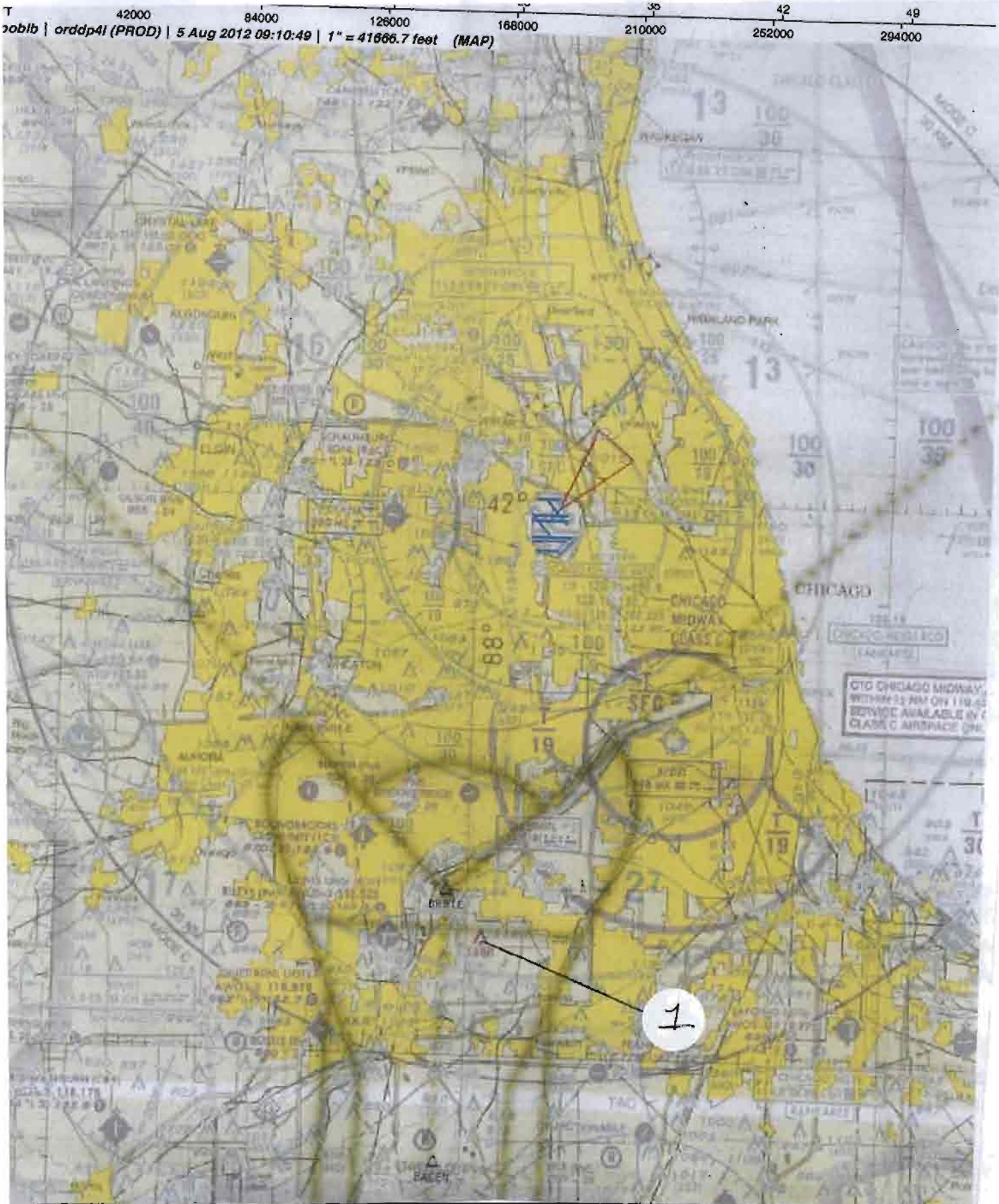
. . . on track 184° to BACEN. Then on (transition). Maintain 5000. Expect filed altitude within 10 minutes after departure.

BEKKI TRANSITION (BACEN1.BEKKI):
ROBERTS TRANSITION (BACEN1.RBS):

TAKEOFF OBSTACLE NOTES:

NOTE Rwy 4L: Buildings beginning 3302' from DER, 1198' right of centerline, up to 109' AGL/751' MSL.
NOTE Rwy 4R: Tree 810' from DER, 611' right of centerline, 36' AGL/675' MSL.
Trees beginning 2149' from DER, 834' left of centerline, up to 100' AGL/749' MSL.
Parked aircraft on ramp 153' from DER, 329' left of centerline, 80' AGL/735' MSL.
NOTE Rwy 9L: Building 2771' from DER, 1234' right of centerline, 94' AGL/745' MSL.
NOTE Rwy 9R: Street light 877' from DER, 689' right of centerline, 40' AGL/673' MSL.
Tree 3492' from DER, 1054' left of centerline, 100' AGL/744' MSL.
NOTE Rwy 10: Parked aircraft on ramp 33' from DER, 440' left of centerline, 80' AGL/735' MSL.
Parked aircraft on ramp 940' from DER, 641' left of centerline, 80' AGL/735' MSL.
Towers beginning 2522' from DER, 983' right of centerline, up to 127' AGL/771' MSL.
NOTE Rwy 14L: Light poles beginning 981' from DER, 745' left of centerline, up to 40' AGL/684' MSL.
Parked aircraft on ramp 100' from DER, 363' right of centerline, 80' AGL/729' MSL.
Sign 1292' from DER, 724' right of centerline, 37' AGL/682' MSL.
NOTE Rwy 14R: Parked aircraft on ramp 1104' from DER, 766' right of centerline, 80' AGL 736' MSL.
NOTE Rwy 22R: Parked aircraft on ramp 34' from DER, 430' left of centerline, 80' AGL/736' MSL.
NOTE Rwy 27L: Parked aircraft on ramp 70' from DER, 408' left of centerline, 80' AGL/740' MSL.
Rod on tower 2591' from DER, 1181' left of centerline, 86' AGL/753' MSL.
Parked aircraft on ramp 3627' from DER, 1225' right of centerline, 80' AGL/754' MSL.
NOTE Rwy 27R: Tanks beginning 1489' from DER, 886' left of centerline, 53' AGL/726' MSL.
Lighted hopper and elevator 2778' from DER, 1020' left of centerline, 111' AGL/776' MSL.
NOTE Rwy 28: Trees beginning 1717' from DER, 752' left of centerline, up to 100' AGL/789' MSL.
NOTE Rwy 32L: Pole 1993' from DER, 791' left of centerline, 49' AGL/716' MSL.

PROTOTYPE: NOT FOR NAVIGATION



Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL		PNA		CLEAR
City:	CHICAGO	1	BRBIE-BACEN	TOWER	1160
State.	ILLINOIS				
Proc ID:	BACEN (RNAV) SID				
Amdt.	ORIG				
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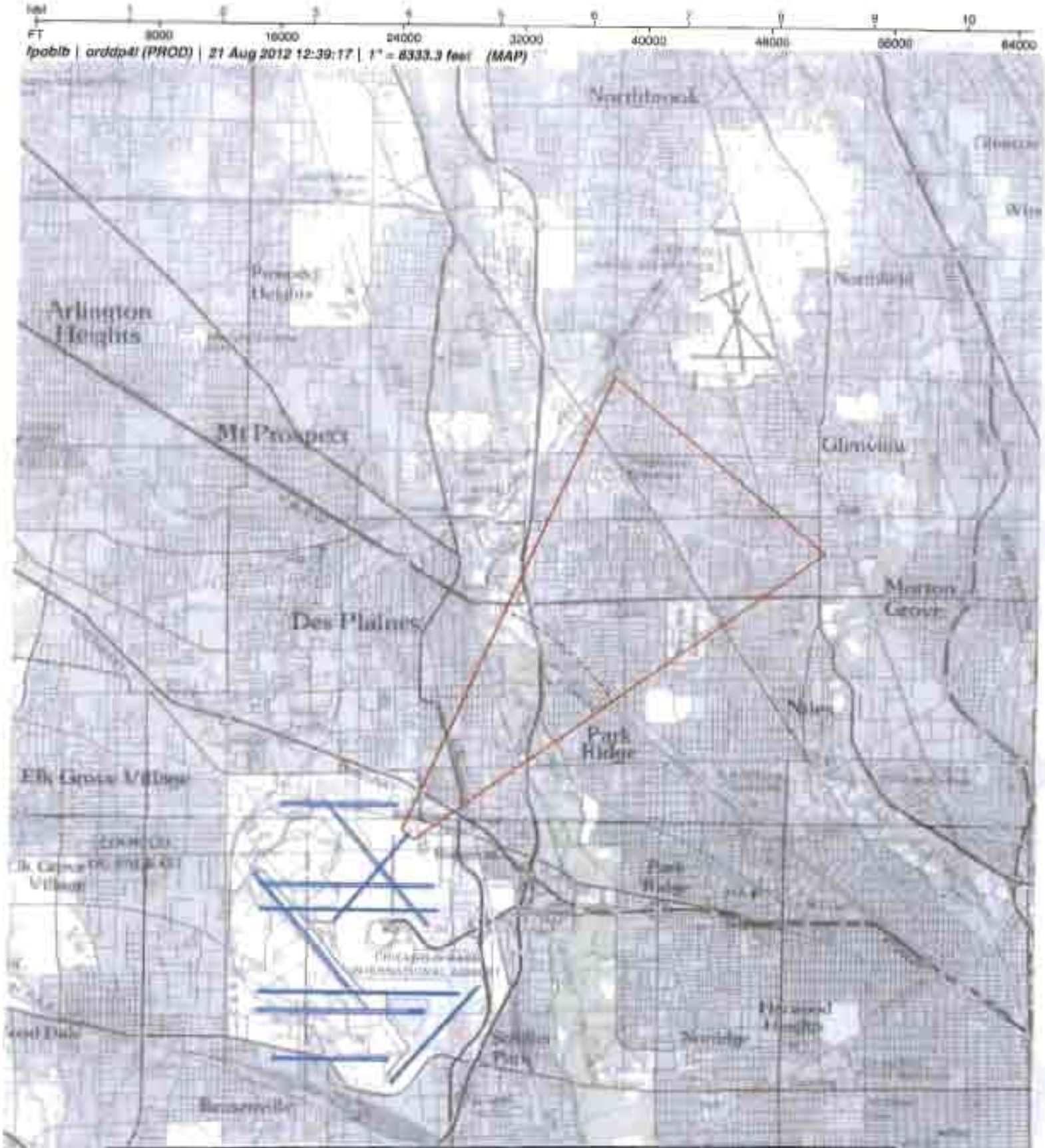
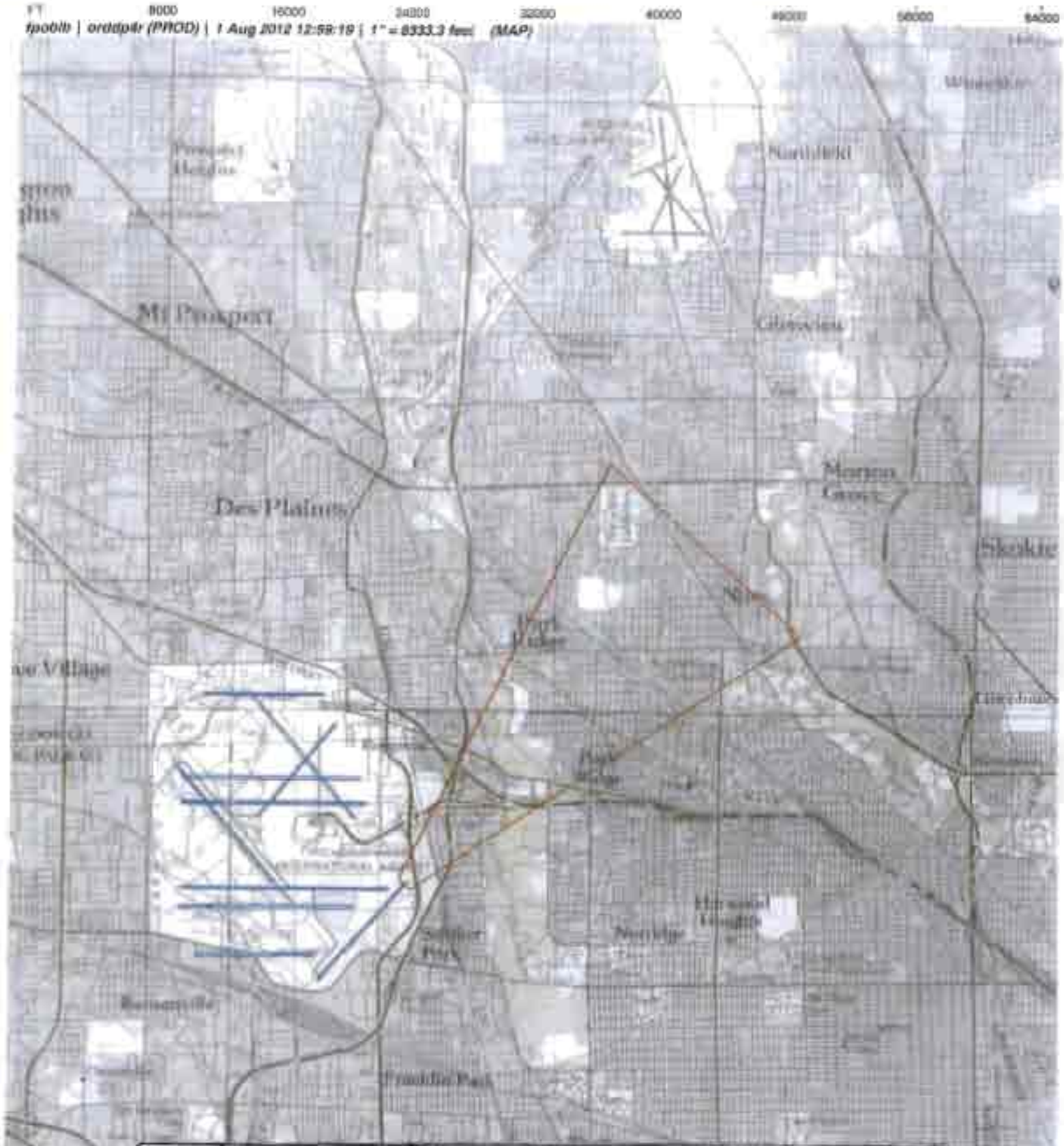
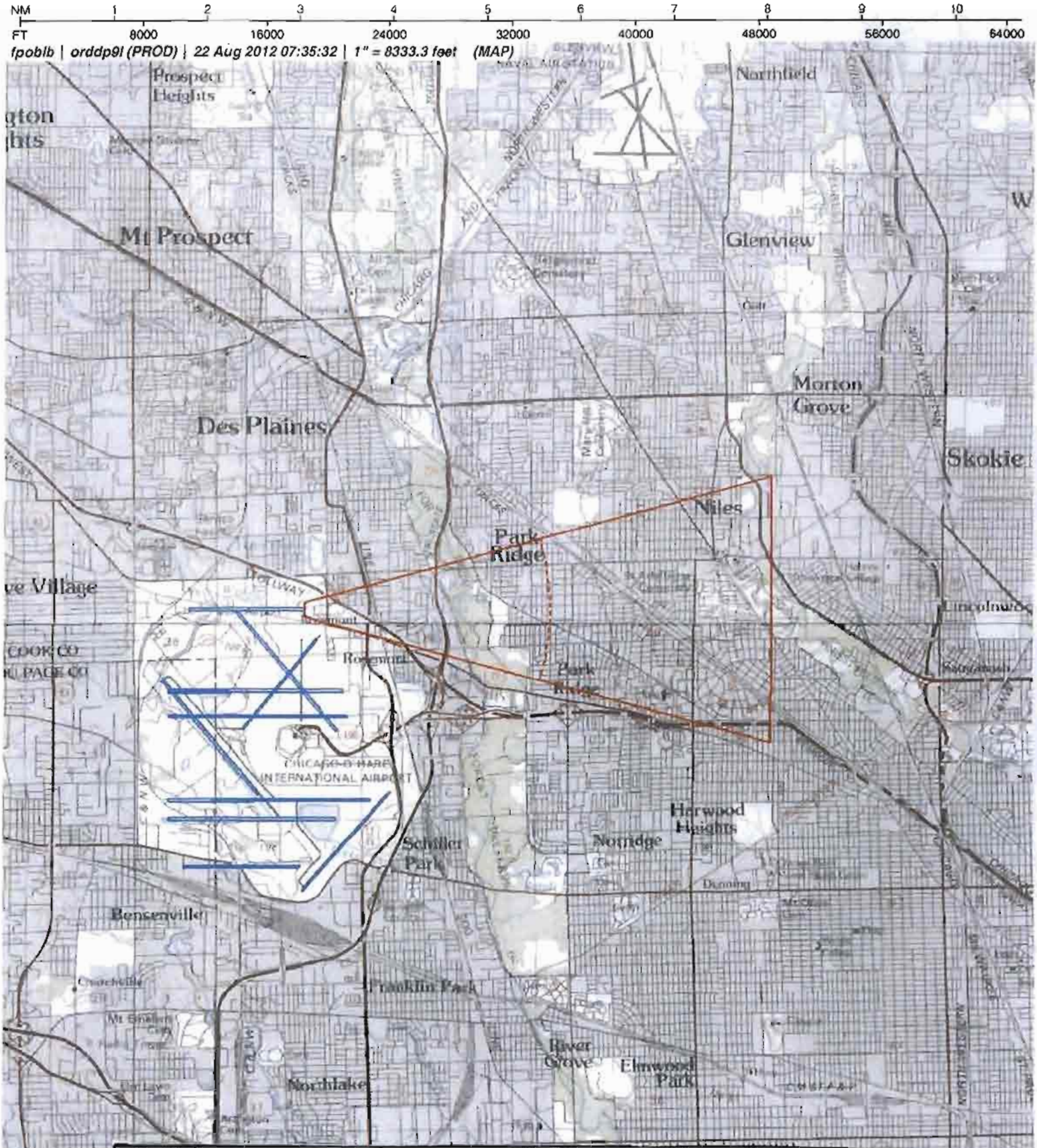


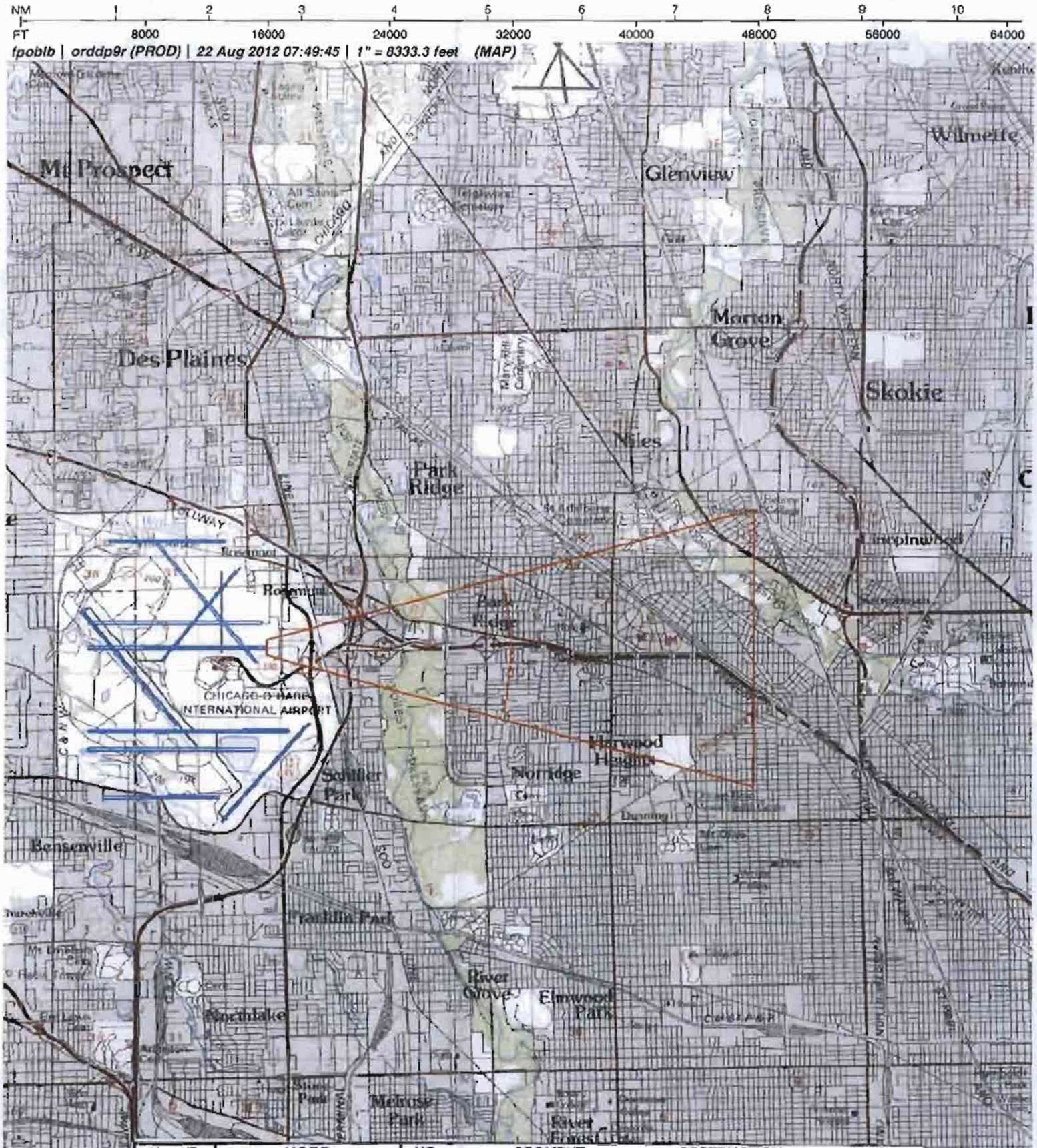
Airport ID	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name	CHICAGO O'HARE INTL		RWY – MVA (3300)		ASC
City	CHICAGO				
State	ILLINOIS				
RWY	4L				
Proc ID	BACEN (RNAV) SID				
Amdt	ORIG				
Scale	1: 100,000				



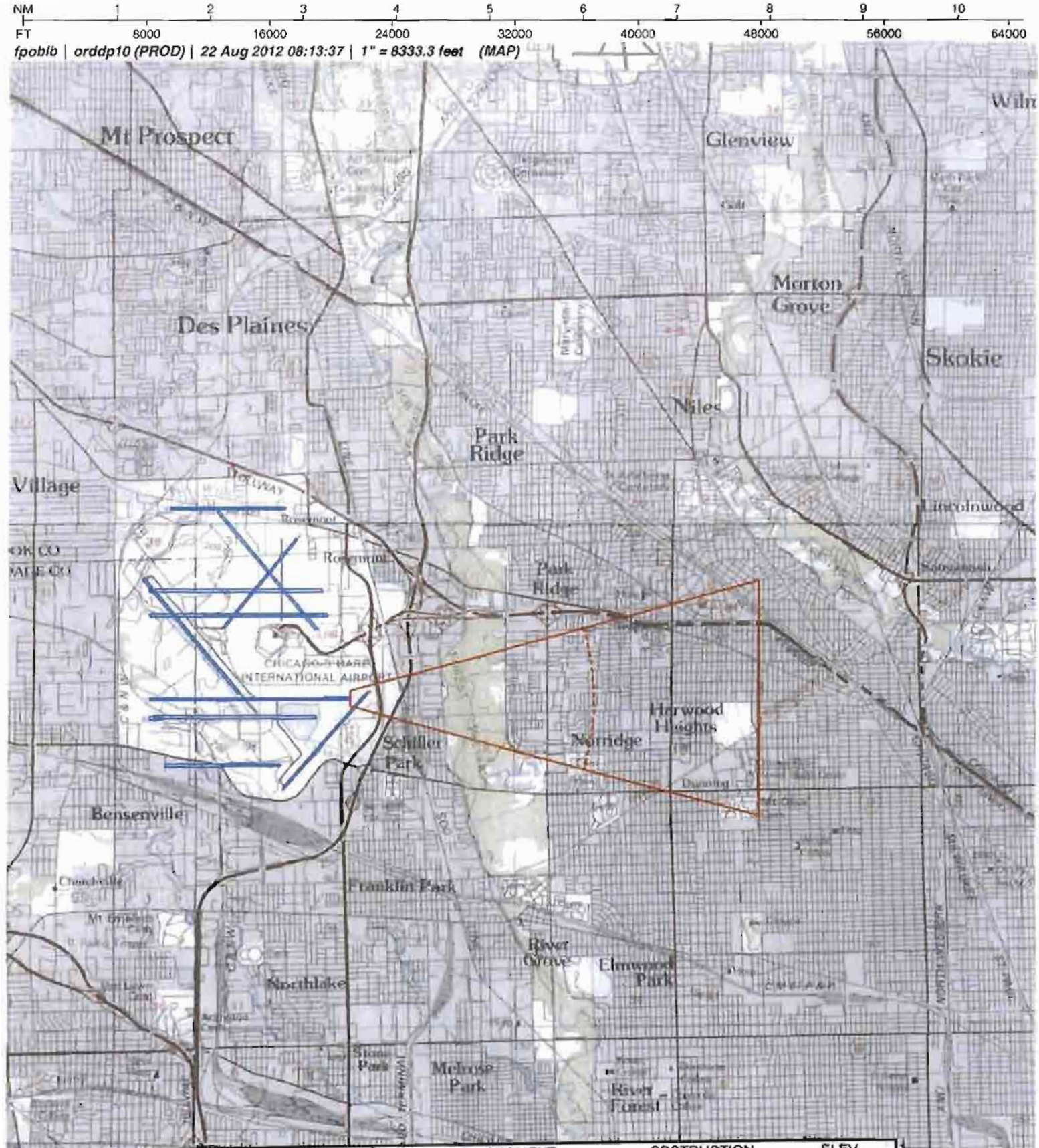
Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL		RWY – MVA (3300)		ASC
City	CHICAGO				
State	ILLINOIS				
RWY	4R				
Proc ID	BACEN (RNAV) SID				
Amdt:	ORIG				
Scale	1: 100,000				



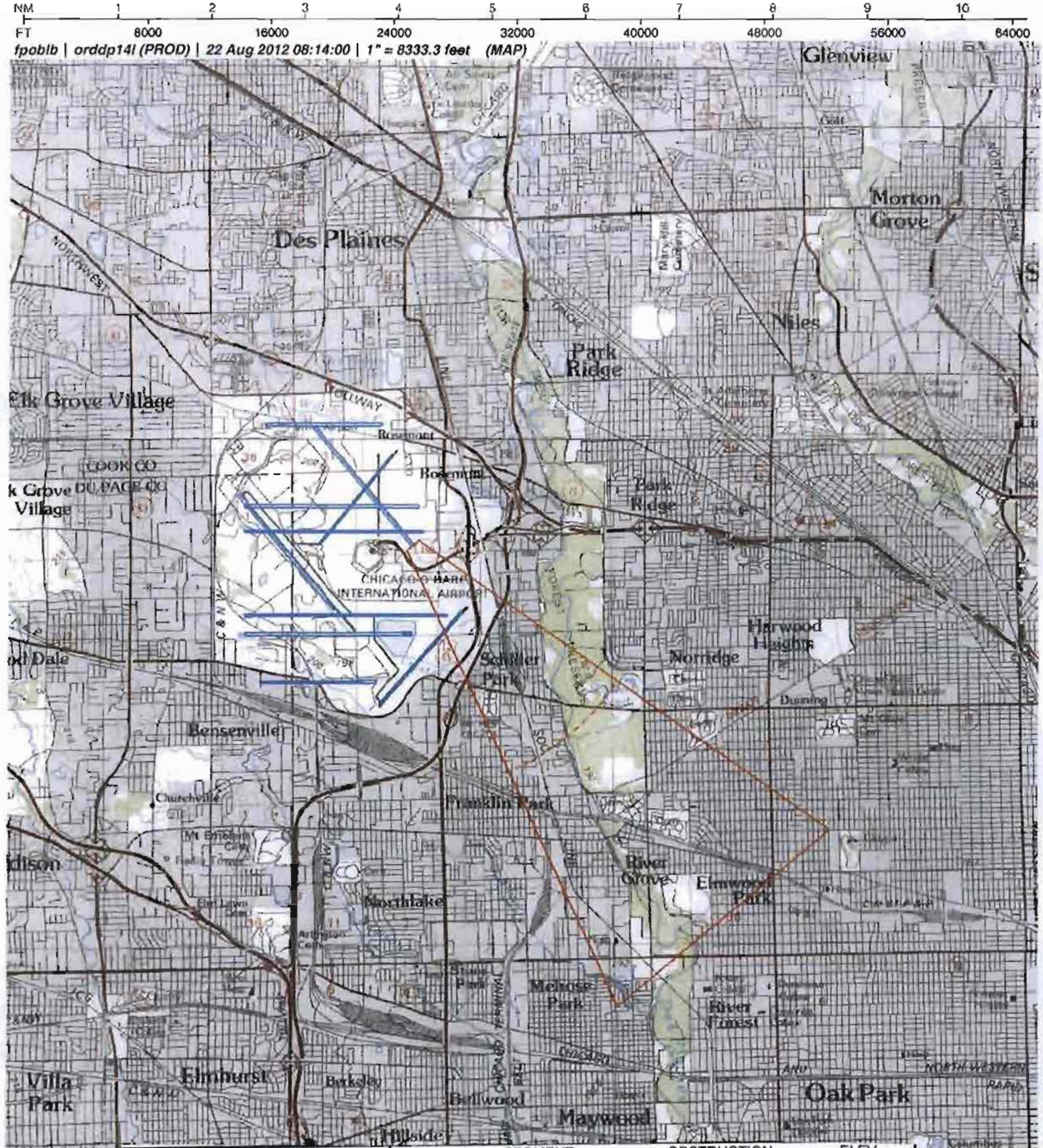
Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL		RWY – MVA (3300)		ASC
City:	CHICAGO				
State	ILLINOIS				
RWY	9L				
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG				
Scale	1: 100,000				



Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL		RWY – MVA (3300)		ASC
City:	CHICAGO				
State:	ILLINOIS				
RWY	9R				
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG				
Scale	1: 100,000				



Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL		RWY – MVA (3300)		ASC
City:	CHICAGO				
State:	ILLINOIS				
RWY	10				
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG				
Scale	1: 100,000				



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Apt Name:	CHICAGO O'HARE INTL		RWY - MVA (3300)		ASC
City:	CHICAGO				
State.	ILLINOIS				
RWY	14L				
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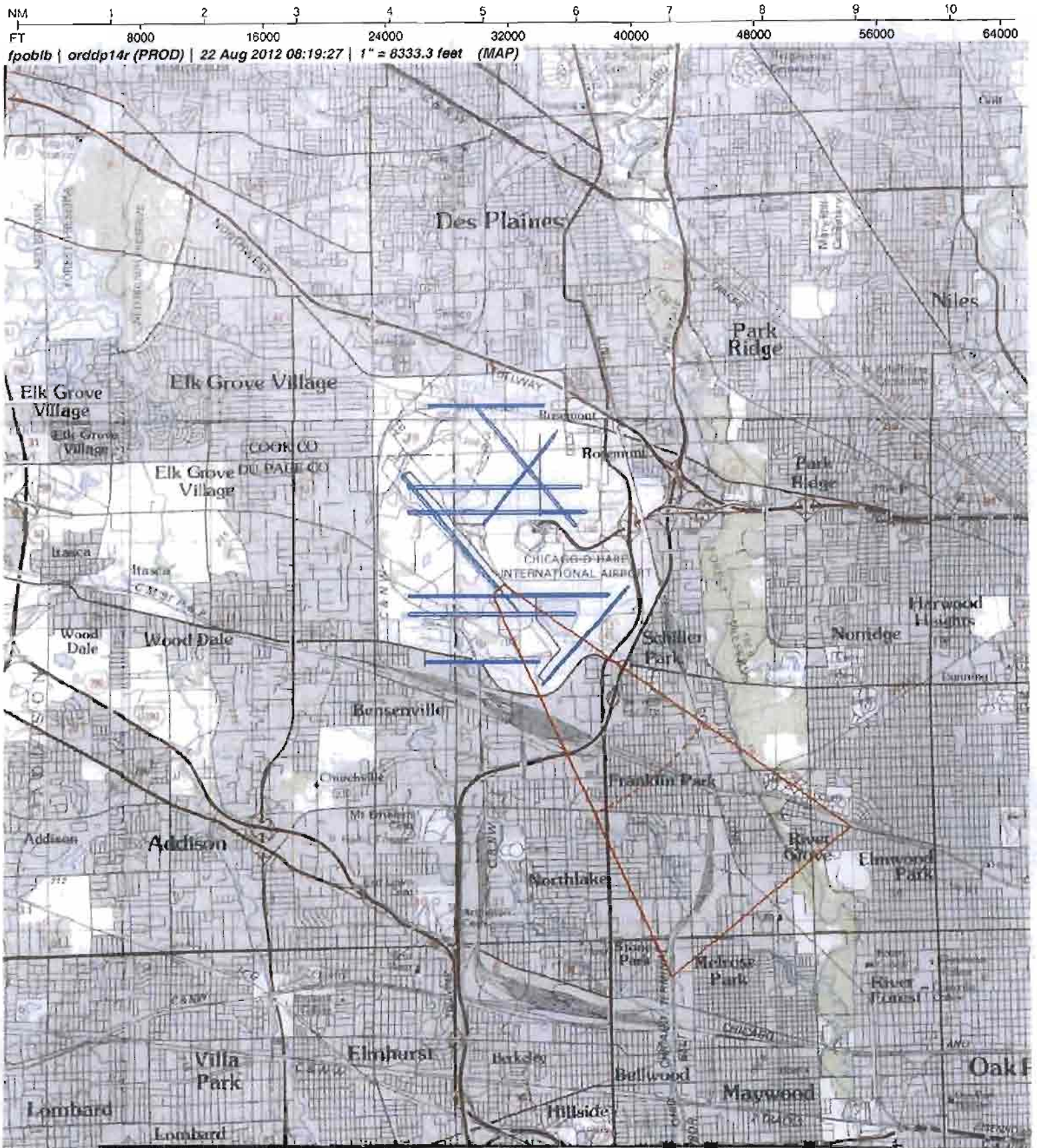
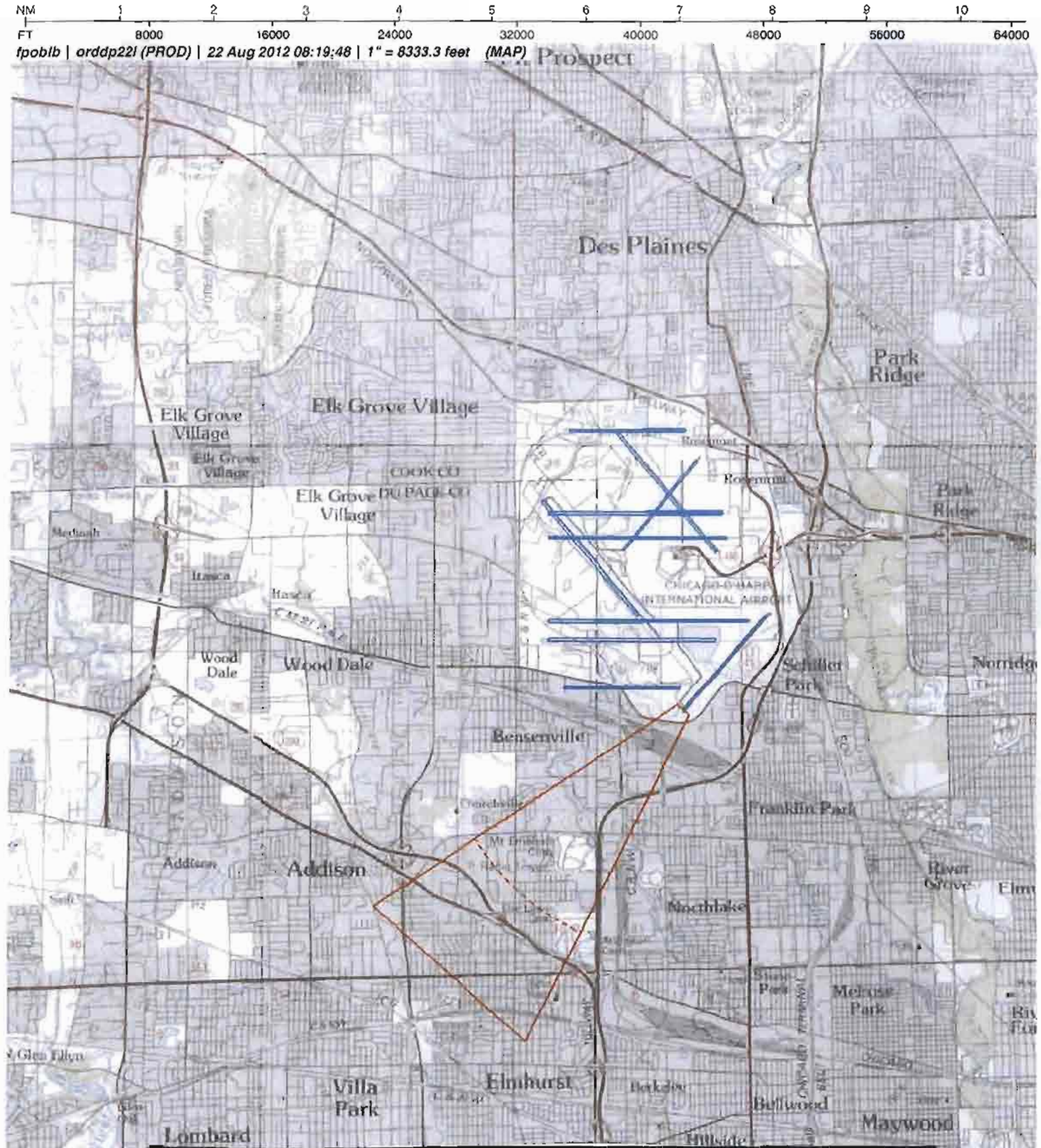
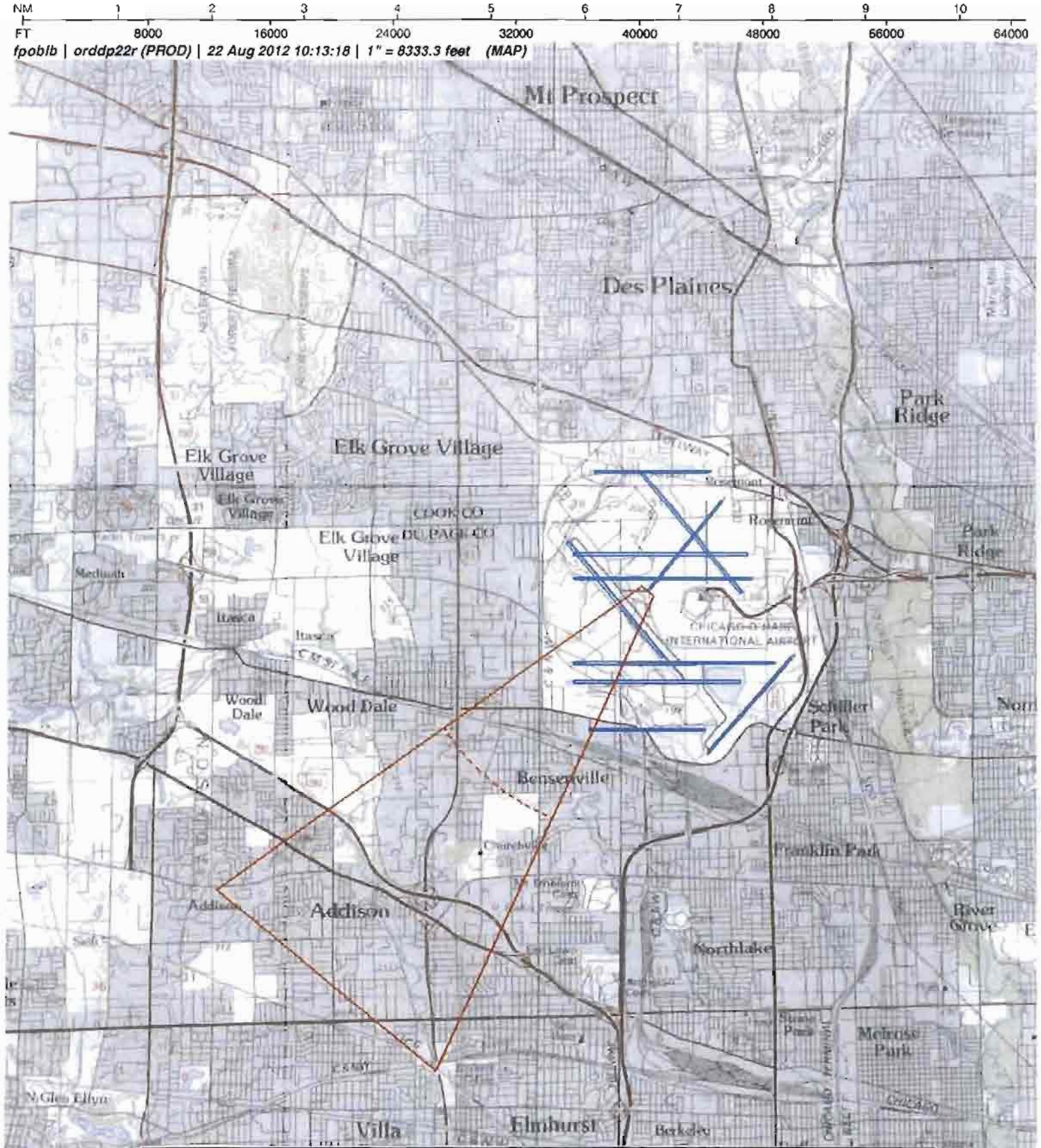
Amdt.	ORIG				
Scale	1: 100,000				



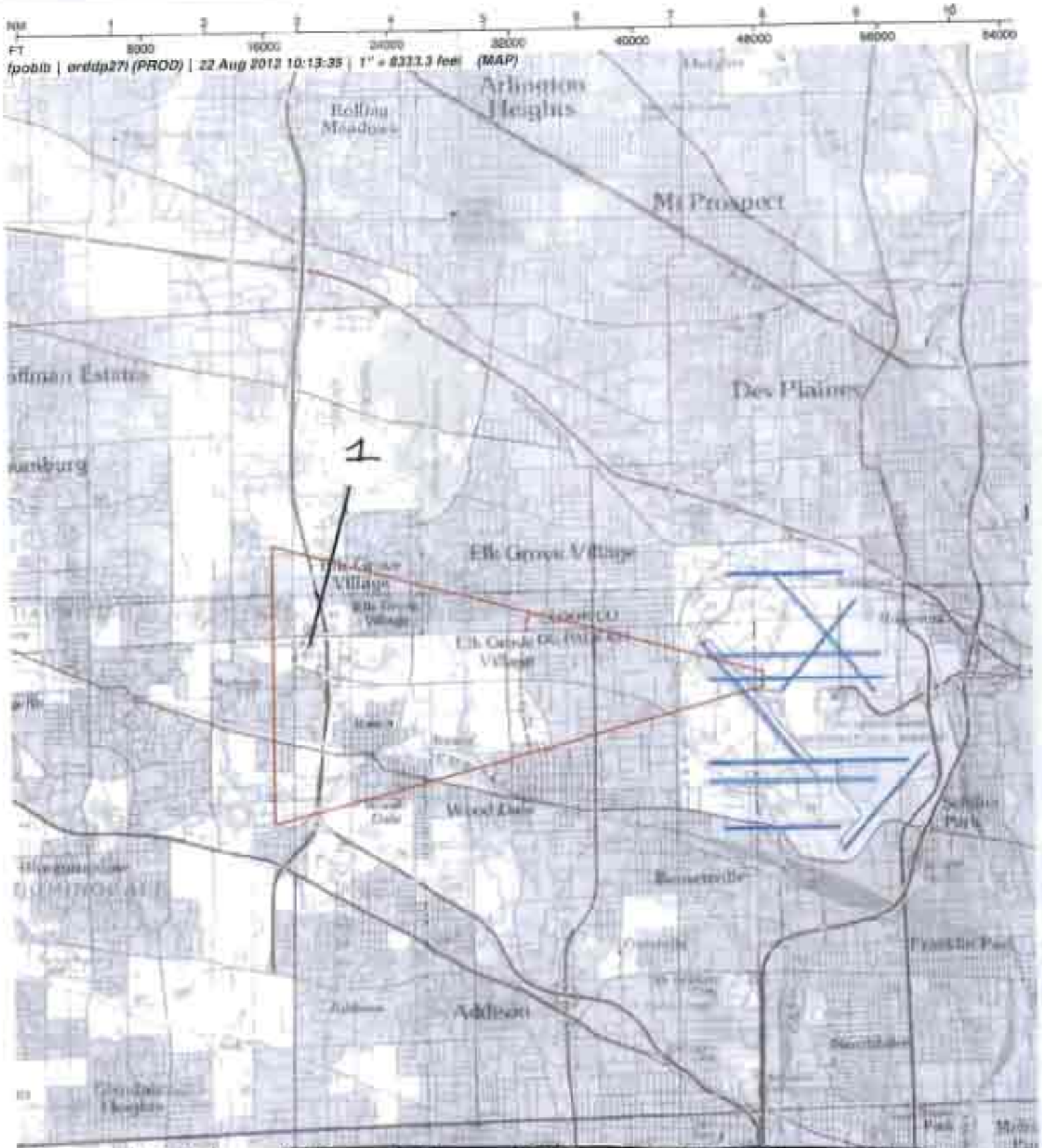
Airport ID.	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name.	CHICAGO O'HARE INTL		RWY – MVA (3300)		ASC
City:	CHICAGO				
State:	ILLINOIS				
RWY	14R				
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG				
Scale	1: 100,000				



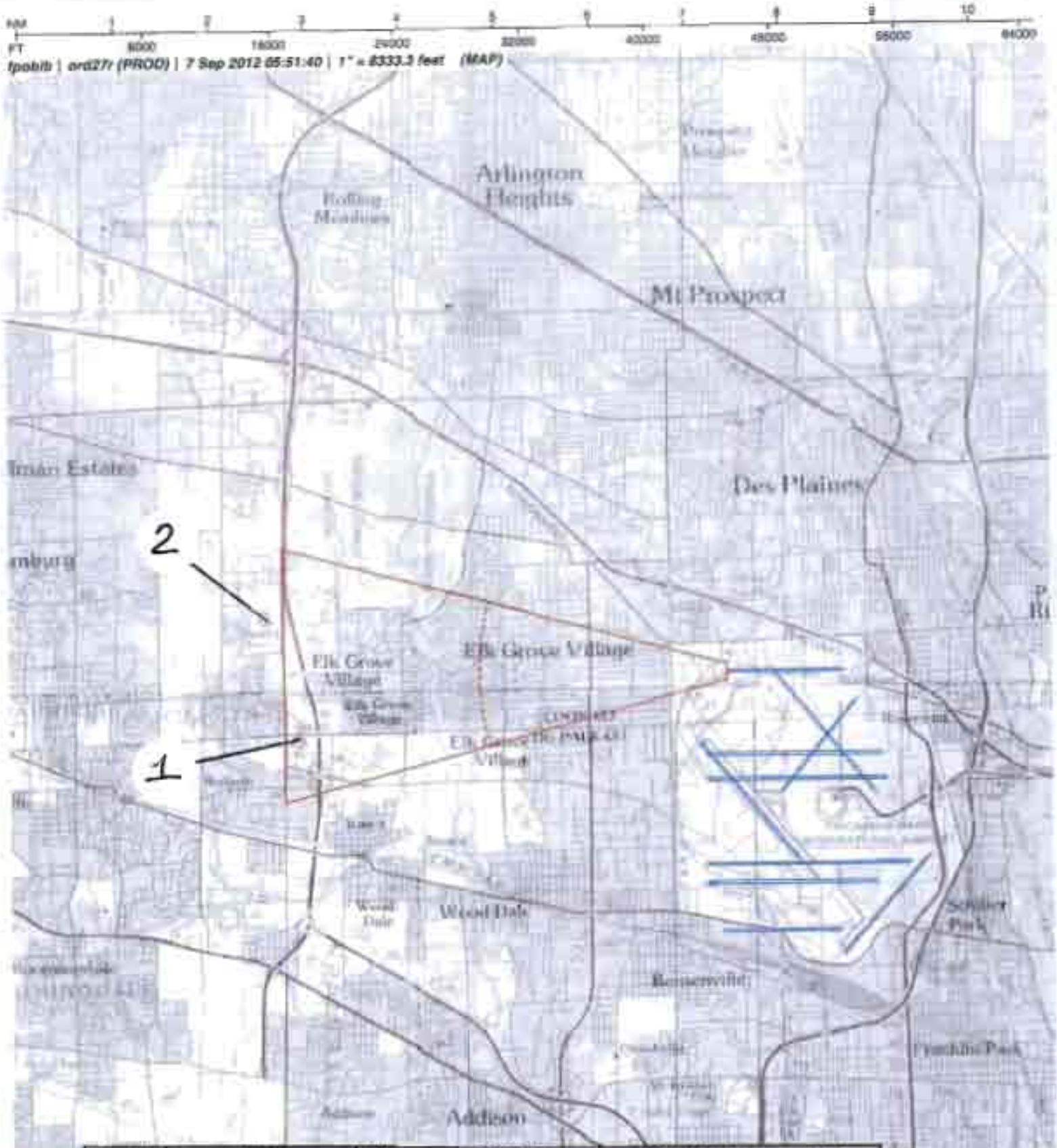
Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL		RWY – MVA (3300)		ASC
City.	CHICAGO				
State	ILLINOIS				
RWY	22L				
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG				
Scale	1: 100,000				



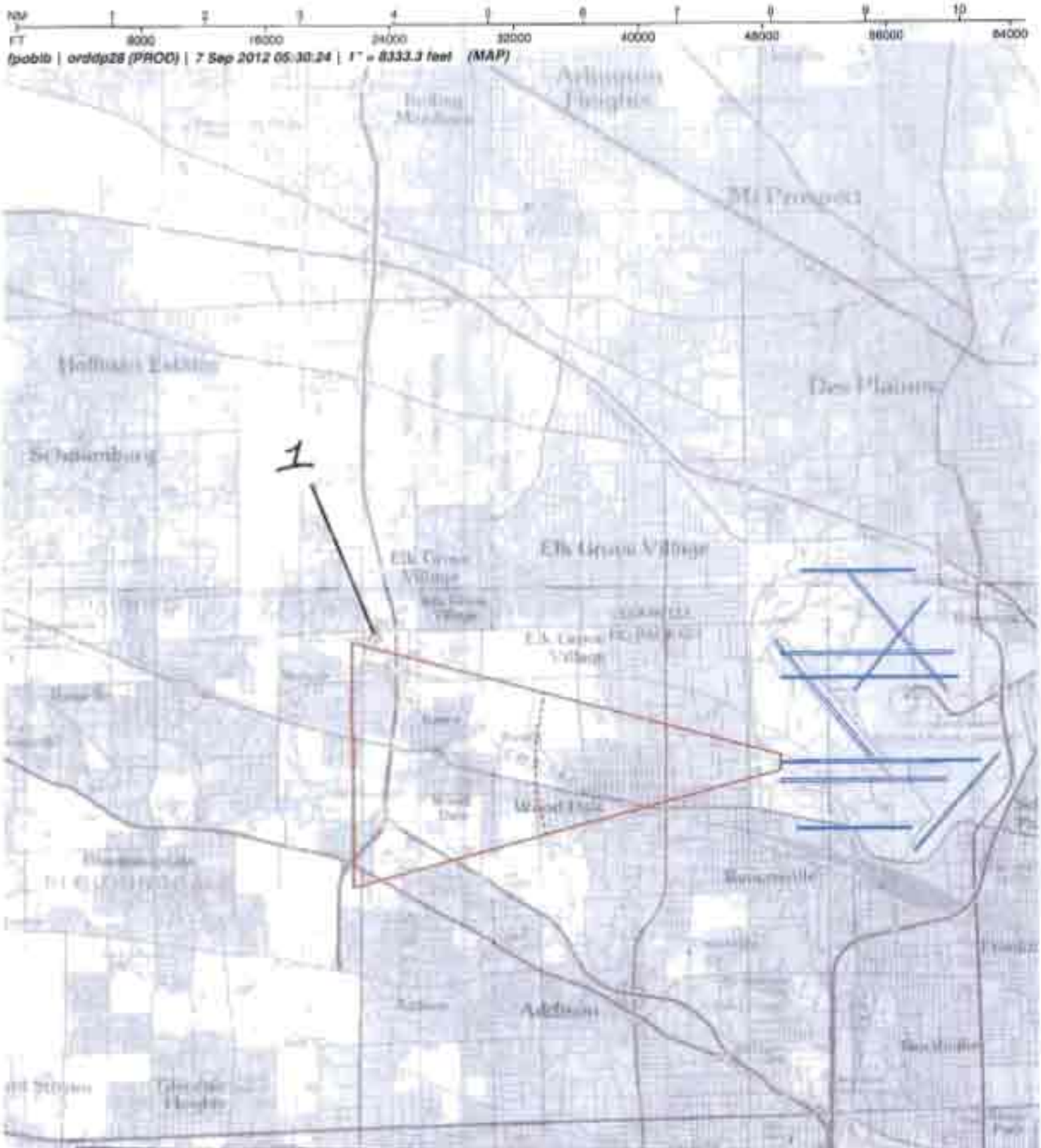
Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL		RWY – MVA (3300)		ASC
City:	CHICAGO				
State:	ILLINOIS				
RWY	22R				
BACEN	BACEN (RNAV) SID				
Amdt:	ORIG				
Scale	1: 100,000				



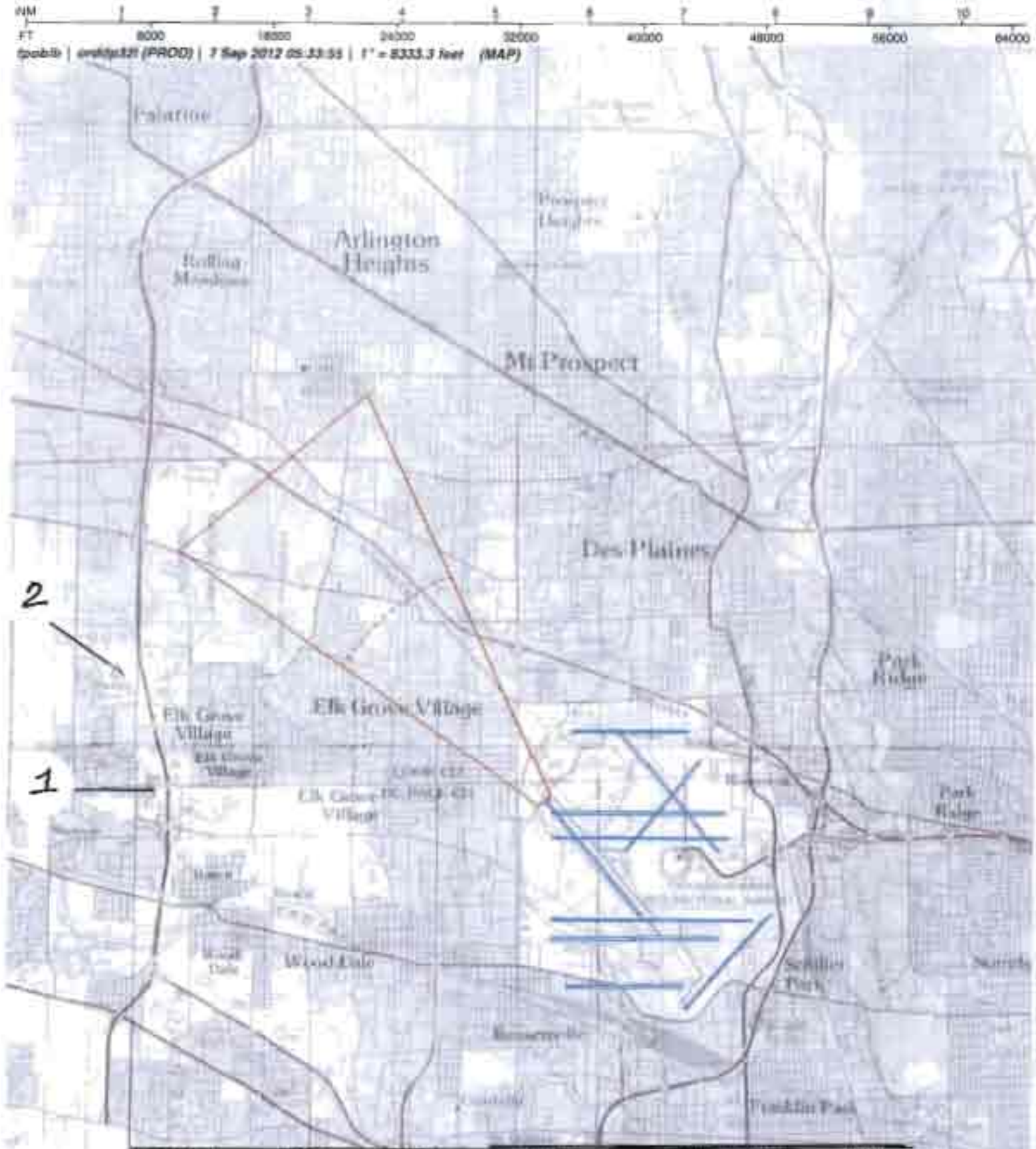
Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL	1	RWY – MVA (3300)	TOWER	1413
City:	CHICAGO				
State:	ILLINOIS				
RWY:	27L				
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG				
Scale:	1: 100,000				



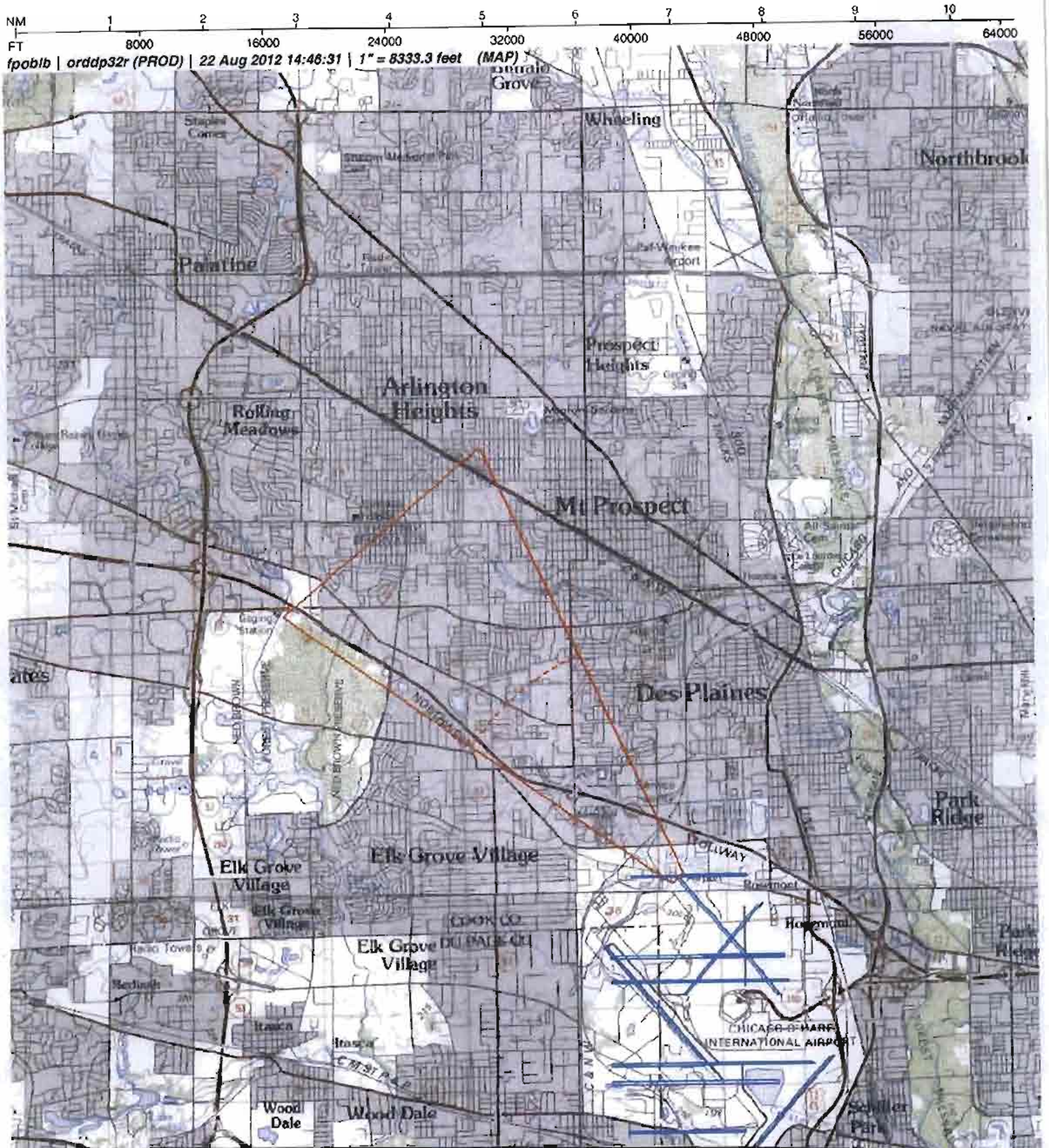
Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL	1	RWY-MVA (3300)	TOWER	1413
City:	CHICAGO	2	RWY-MVA (3300)	TOWER	1464
State:	ILLINOIS				
Scale:	1: 100,000				
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG				
RWY:	27R				



Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name	CHICAGO O'HARE INTL	1	RWY – MVA (3300)	TOWER	1413
City:	CHICAGO				
State:	ILLINOIS				
RWY	28				
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG				
Scale	1: 100,000				



Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL	1	RWY-MVA (3300)	TOWER	1413
City:	CHICAGO	2	RWY-MVA (3300)	TOWER	1464
State:	ILLINOIS				
Scale:	1: 100,000				
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG				
RWY	28R				



Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name	CHICAGO O'HARE INTL		RWY – MVA (3300)		ASC
City:	CHICAGO				
State:	ILLINOIS				
RWY	32R				
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG				
Scale	1: 100,000				

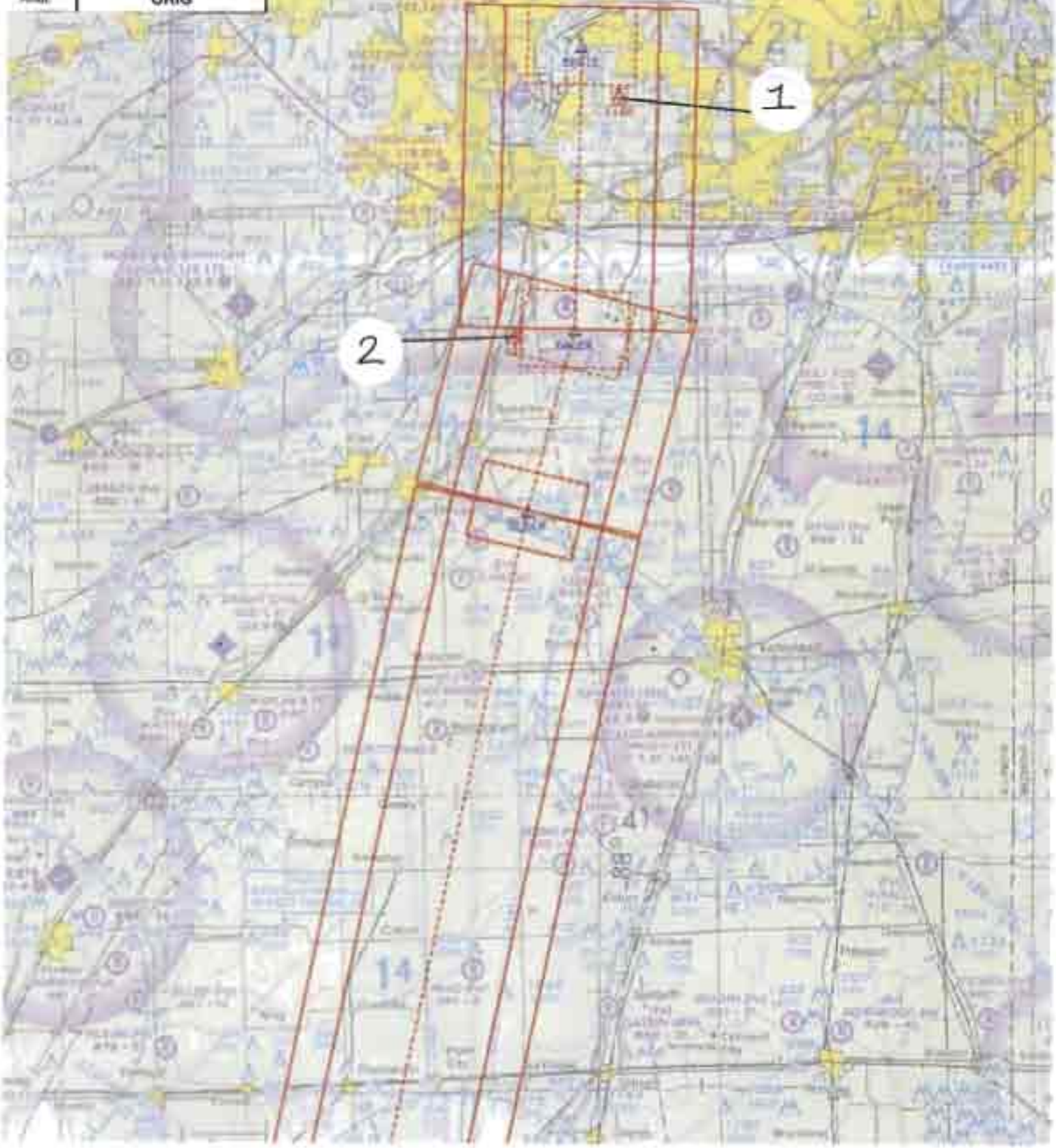
NM 0 7 14 21 28 35 42 49

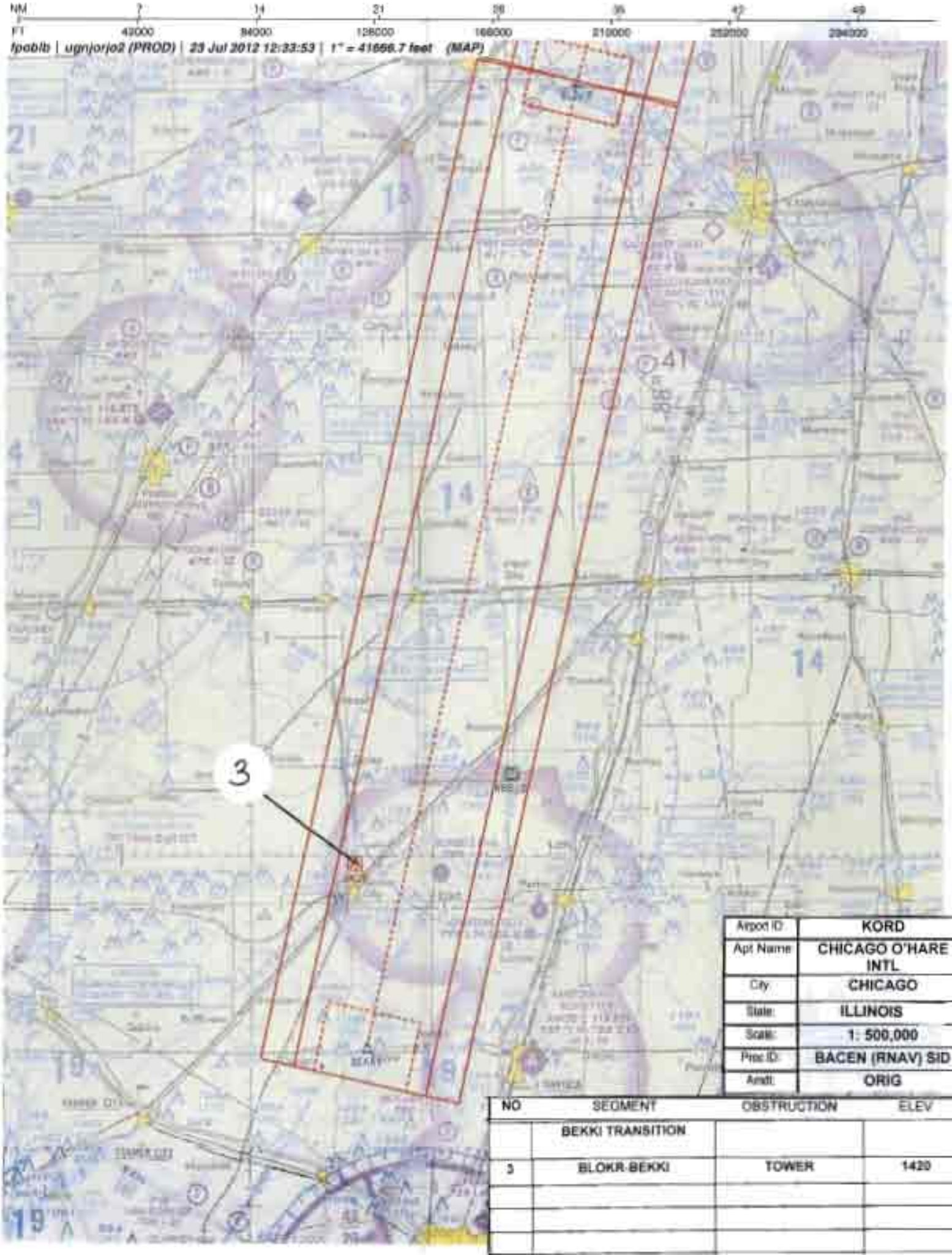
FT 0 42000 84000 126000 168000 210000 252000 294000

fpobltb | ugnjorja2 (PROD) | 23 Jul 2012 12:33:31 | 1" = 41666.7 feet (MAP)

Airport ID:	KORD
Apt Name:	CHICAGO O'HARE INTL
City:	CHICAGO
State:	ILLIN... CO
Scale:	1: 500,000
Proc ID:	BACEN (RNAV) SID
Amdt:	ORIG

NO	SEGMENT	OBSTRUCTION	ELEV
	BEKKI TRANSITION		
1	BRBIE-BACEN	TOWER	1160
2	BACEN-BLOKR	TOWER	922
	Page 1 of 2		





Airport ID:	KORD
Apt Name:	CHICAGO O'HARE INTL
City:	CHICAGO
State:	ILLINOIS
Scale:	1: 500,000
Proc ID:	BACEN (RNAV) SID
Amdt:	ORIG

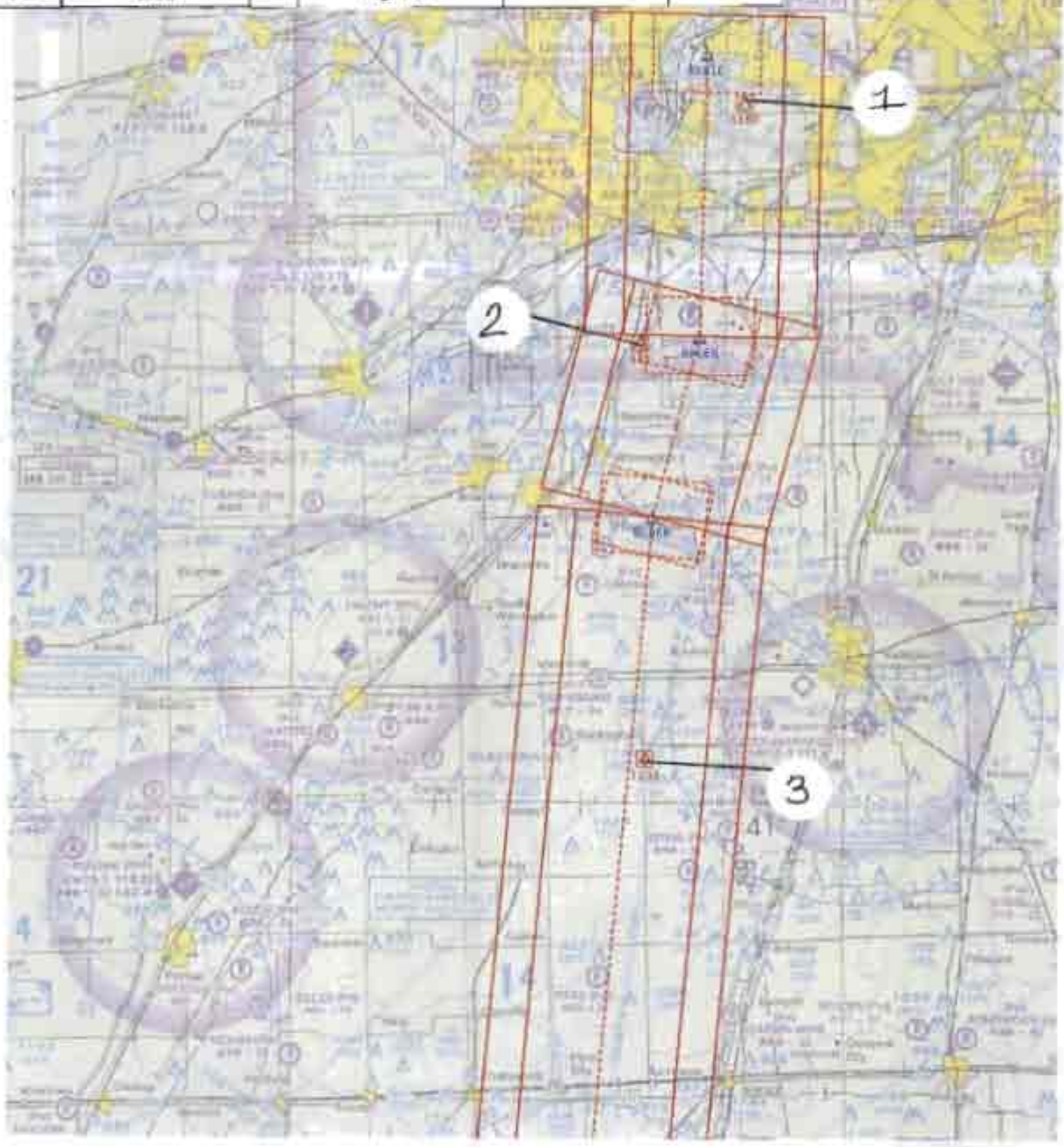
NO	SEGMENT	OBSTRUCTION	ELEV
	BEKKI TRANSITION		
3	BLOKR-BEKKI	TOWER	1420

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpoblb | ugnjorje2 (PROD) | 23 Jul 2012 12:34:32 | 1" = 41666.7 feet (MAP)

Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	CHICAGO O'HARE INTL		ROBERTS TRANSITION		
City:	CHICAGO	1	BRBIE-BACEN	TOWER	1160
State:	ILLINOIS	2	BACEN-BLOKR	TOWER	922
Scale:	1: 500,000	3	BLOKR-RBS	TOWER	1133
Proc ID:	BACEN (RNAV) SID				
Amdt:	ORIG		Page 1 of 2		



Airport ID:	KORD	NO	SEGMENT	OBSTRUCTION	ELEV
Apt Name	CHICAGO O'HARE INTL		ROBERTS TRANSITION		
City	CHICAGO	2	BACEN-BLOKR	TOWER	922
State:	ILLINOIS	3	BLOKR-RBS	TOWER	1133
Scale:	1: 500,000				
Proc ID:	BACEN (RNAV) SID				

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN	ONE	BACEN1.BACEN	NONE		

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 4L: CLIMB HEADING 042.49 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 4R: CLIMB HEADING 044.50 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 9L: CLIMB HEADING 092.99 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 9R: CLIMB HEADING 092.98 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 10: CLIMB HEADING 092.86 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 14L: CLIMB HEADING 142.99 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 14R: CLIMB HEADING 142.97 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 22L: CLIMB HEADING 224.51 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 22R: CLIMB HEADING 225.00 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 27L: CLIMB HEADING 273.00 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 27R: CLIMB HEADING 273.01 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 28: CLIMB HEADING 272.90 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 32L: CLIMB HEADING 322.99 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE...
TAKEOFF RWY 32R: CLIMB HEADING 323.01 OR AS ASSIGNED BY ATC TO 1180, EXPECT VECTORS TO BRBIE. THENCE

...ON TRACK 184.23 TO BACEN, THEN ON (TRANSITION). MAINTAIN 5000. EXPECT FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
BEKKI	BACEN1.BEKKI	BACEN	BLOKR	TRACK 197.46	9.72	5000	2000	
		BLOKR	BEKKI	TRACK 195.27	57.24	5000	2500	
ROBERTS	BACEN1.RBS	BACEN	BLOKR	TRACK 197.46	9.72	5000	2000	
		BLOKR	RBS VOR/DME	TRACK 188.28	40.23	5000	2200	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: TURBOJET DEPARTURES MAINTAIN 250 KIAS UNTIL ADVISED BY ATC.
NOTE: IF UNABLE TO ACCEPT CLIMB GRADIENT, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE. .
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1.
NOTE: RADAR REQUIRED.
NOTE: ROBERTS TRANSITION: FOR AIRCRAFT INBOUND TO CMI OR STL, OR AS ASSIGNED BY ATC.

TAKEOFF MINIMUMS:

QUALITY 4 CHECKED

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN	ONE	BACEN1.BACEN	NONE		

RWY 4L: STANDARD WITH MINIMUM CLIMB OF 547 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 4R: STANDARD WITH MINIMUM CLIMB OF 690 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 9L: STANDARD WITH MINIMUM CLIMB OF 570 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 9R: STANDARD WITH MINIMUM CLIMB OF 541 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 10: STANDARD WITH MINIMUM CLIMB OF 672 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 14L: STANDARD WITH MINIMUM CLIMB OF 547 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 14R: STANDARD WITH MINIMUM CLIMB OF 670 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 22L: STANDARD WITH MINIMUM CLIMB OF 807 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 22R: STANDARD WITH MINIMUM CLIMB OF 521 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 27L: STANDARD WITH MINIMUM CLIMB OF 532 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 27R: STANDARD WITH MINIMUM CLIMB OF 631 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 28: STANDARD WITH MINIMUM CLIMB OF 685 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 32L: STANDARD WITH MINIMUM CLIMB OF 631 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.
RWY 32R: STANDARD WITH MINIMUM CLIMB OF 587 FT PER NM TO 3000, THEN MINIMUM CLIMB OF 350 FT PER NM TO 4000.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 4L, BUILDINGS BEGINNING 3302 FT FROM DER, 1198 FT RIGHT OF CENTERLINE, UP TO 109 FT AGL/751 FT MSL.
NOTE: RWY 4R, TREE 810 FT FROM DER, 611 FT RIGHT OF CENTERLINE, 36 FT AGL/675 FT MSL. TREES BEGINNING 2149 FT FROM DER, 834 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/749 FT MSL. PARKED AIRCRAFT ON RAMP 153 FT FROM DER, 329 FT LEFT OF CENTERLINE, 80 FT AGL/735 FT MSL.
NOTE: RWY 9L, BUILDING 2771 FT FROM DER, 1234 FT RIGHT OF CENTERLINE, 94 FT AGL/745 FT MSL.
NOTE: RWY 9R, STREET LIGHT 877 FT FROM DER, 689 FT RIGHT OF CENTERLINE, 40 FT AGL/673 FT MSL. TREE 3492 FT FROM DER, 1054 FT LEFT OF CENTERLINE, 100 FT AGL/744 FT MSL.
NOTE: RWY 10, PARKED AIRCRAFT ON RAMP 33 FT FROM DER, 440 FT LEFT OF CENTERLINE, 80 FT AGL/735 FT MSL. PARKED AIRCRAFT ON RAMP 940 FT FROM DER, 641 FT LEFT OF CENTERLINE, 80 FT AGL/735 FT MSL. TOWERS BEGINNING 2522 FT FROM DER, 983 FT RIGHT OF CENTERLINE, UP TO 127 FT AGL/771 FT MSL.
NOTE: RWY 14L, LIGHT POLES BEGINNING 981 FT FROM DER, 745 FT LEFT OF CENTERLINE, UP TO 40 FT AGL/684 FT MSL. PARKED AIRCRAFT ON RAMP 100 FT FROM DER, 363 FT RIGHT OF CENTERLINE, 80 FT AGL/729 FT MSL. SIGN 1292 FT FROM DER, 724' FT RIGHT OF CENTERLINE, 37 FT AGL/682 FT MSL.
NOTE: RWY 14R, PARKED AIRCRAFT ON RAMP 1104 FT FROM DER, 766 FT RIGHT OF CENTERLINE, 80 AGL/736 FT MSL.
NOTE: RWY 22R, PARKED AIRCRAFT ON RAMP 34 FT FROM DER, 430 FT LEFT OF CENTERLINE, 80 FT AGL/736 FT MSL.
NOTE: RWY 27L, PARKED AIRCRAFT ON RAMP 70 FT FROM DER, 408 FT LEFT OF CENTERLINE, 80 FT AGL/740 FT MSL ROD ON TOWER 2591 FT FROM DER, 1181 FT LEFT OF CENTERLINE, 86 FT AGL/753 FT MSL. PARKED AIRCRAFT ON RAMP 3627 FT FROM DER, 1225 FT RIGHT OF CENTERLINE, 80 FT AGL/754 FT MSL.
NOTE: RWY 27R, TANKS BEGINNING 1489 FT FROM DER, 886 FT LEFT OF CENTERLINE, 53 FT AGL/726 FT MSL. LIGHTED HOPPER AND ELEVATOR 2778 FT FROM DER, 1020 FT LEFT OF CENTERLINE, 111 FT AGL/776 FT MSL.
NOTE: RWY 28, TREES BEGINNING 1717 FT FROM DER, 752 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/789 FT MSL.
NOTE: RWY 32L, POLE 1993 FT FROM DER, 791 FT LEFT OF CENTERLINE, 49 FT AGL/716 FT MSL.

CONTROLLING OBSTACLES:

RWY 27L: 812 FT MSL ROD ON TOWER 415843.93N/0875619.54W, 1413 FT MSL TOWER 415926.00N/0880139.00W.
RWY 27R: 1463 FT MSL TOWER 420042.54N/0880206.97W, 1413 FT MSL TOWER 415926.00N/0880138.00W.
RWY 28: 1413 FT MSL TOWER 415926.00N/0880138.00W.
RWY 32L: 1464 FT MSL LIGHT ON TOWER 415926.07N/0880139.04W, 1410 FT MSL TOWER 415926.07N/0880139.04W.

LOST COMMUNICATIONS PROCEDURES:

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN	ONE	BACEN1.BACEN	NONE		

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KORD 3W, EPOCH YR: 2010
DME/DME ASSESSMENT: SAT (RNP 2.0)
CHART: MEA/MOCA FROM BRBIE TO BACEN, 5000/2200

PILOT NAVIGATION AREA:

7 NM ARC CENTERED ON BRBIE (IF). CW
FROM: POINT A (BEARING 139 DEGREES TO BRBIE).
TO: POINT B (BEARING 229 DEGREES TO BRBIE).
MINIMUM ALTITUDE 5000.

AIRPORTS SERVED:

CHICAGO O'HARE INTERNATIONAL — CHICAGO, IL

COMMUNICATIONS:

ATIS, GND CON, TWR, DEP CON

FIXES AND/OR NAVAIDS:

REMARKS:

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN	ONE	BACEN1.BACEN	NONE		

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

BEVERLY BORDY AJV-353 01/23/2012

APPROVED BY:

LARRY STROUT AJV-353

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, ABQ ATCT, AMGR.

CHANGES:

ORIGINAL

REASONS:

10/25/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/23/2012.

1. CHANGED THE DP ROUTE DESCRIPTION FROM "MAINTAIN 10000. EXPECT FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE." TO "MAINTAIN 5000. EXPECT FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE."
2. CHANGED NOTE FROM "IF UNABLE TO ACCEPT CLIMB GRADIENT, ADVISE ATC ON INITIAL CONTACT" TO "IF UNABLE TO ACCEPT CLIMB GRADIENT, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE."
3. REORDERED THE PROCEDURAL DATA NOTES PER ATC REQUEST.

11/06/2012. THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/23/2012.

1. ADDED A VA LEG TO DEPARTURE INSTRUCTIONS TO 1180.
2. RWY 22R HEADING CHANGED FROM 222.5 TO 225.

FPT REQUESTED.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN RNAV	ONE	BACEN1.BACEN	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW04L (AER)	415853.96N/0875450.10W	N	-	-	-	-			
1180 MSL		-	-	VA	039.49				
-	-	-	-	VM	039.49	-			CG 547 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW04R (AER)	415711.98N/0875357.91W	N	-	-	-	-			
1180 MSL		-	-	VA	041.50				
-	-	-	-	VM	041.50				CG 690 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW09L (AER)	420010.19N/0875536.03W	N	-	-	-	-			
1180 MSL		-	-	VA	089.99				
-	-	-	-	VM	089.99	-			CG 570 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW09R (AER)	415902.03N/0875506.07W	N	-	-	-	-			
1180 MSL		-	-	VA	089.98				
-	-	-	-	VM	089.98	-			CG 541 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW10 (AER)	415808.38N/0875553.51W	N	-	-	-	-			
1180 MSL		-	-	VA	089.86				
-	-	-	-	VM	089.86	-			CG 672 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN RNAV	ONE	BACEN1.BACEN	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW14L (AER)*	415953.65N/0875438.32W*	N	-	-	-	-			*DISPL THLD (1998)
1180 MSL		-	-	VA	139.99				
-	-	-	-	VM	139.99	-			CG 547 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW14R (AER)	415925.57N/0875559.30W	N	-	-	-	-			
1180 MSL		-	-	VA	139.97				
-	-	-	-	VM	139.97	-			CG 670 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW22L (AER)	415811.72N/0875247.08W	N	-	-	-	-			
1180 MSL		-	-	VA	221.51				
-	-	-	-	VM	221.51	-			CG 807 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW22R (AER)	415951.13N/0875346.94W	N	-	-	-	-			
1180 MSL		-	-	VA	222.00				
-	-	-	-	VM	222.00	-			CG 521 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW27L (AER)	415902.04N/0875320.58W	N	-	-	-	-			
1180 MSL		-	-	VA	270.00				
-	-	-	-	VM	270.00	-			CG 532 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW27R (AER)	420010.19N/0875356.70W	N	-	-	-	-			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN RNAV	ONE	BACEN1.BACEN	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
1180 MSL		-	-	VA	270.01				
-	-	-	-	VM	270.01	-			CG 631 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW28 (AER)	415808.65N/0875301.42W	N	-	-	-	-			
1180 MSL		-	-	VA	269.90				
-	-	-	-	VM	269.90	-			CG 685 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW32L (AER)	415812.30N/0875436.84W	N	-	-	-	-			
1180 MSL		-	-	VA	319.99				
-	-	-	-	VM	319.99	-			CG 631 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
RW32R (AER)	415853.06N/0875330.17W	N	-	-	-	-			
1180 MSL		-	-	VA	320.01				
-	-	-	-	VM	320.01	-			CG 587 FT/NM TO 3000, THEN 350 FT/NM TO 4000
BRBIE	413903.00N/0880121.94W	Y	FB	DF	-	-			
BRBIE	413903.00N/0880121.94W	Y	-	IF	-	-			
BACEN	412424.00N/0880147.00W	Y	FB	TF	181.23	14.65			
BACEN	412424.00N/0880147.00W	Y	-	IF	-	-			BACEN1.BEKKI
BLOKR	411459.00N/0880500.00W	Y	FB	TF	194.46	9.72			
BEKKI	401900.00N/0882054.00W	Y	FB	TF	192.27	57.24			

QUALITY CHECKED 4

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN RNAV	ONE	BACEN1.BACEN	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
BACEN	412424.00N/0880147.00W	Y	-	IF	-	-			BACEN1.RBS
BLOKR	411459.00N/0880500.00W	Y	FB	TF	194.46	9.72			
RBS	403454.13N/0880951.36W	Y	FB	TF	185.28	40.23			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN RNAV	**ONE**	**BACEN1.BACEN**	**NONE**		

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        RBS   K5011680VDL  N40345413W088095136    N40345413W088095136E0020007801     NARROBERTS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BACEN K50    W   B N41242400W088014700                      W0033     NAR           BACEN
        SUSAEAENRT   BEKKI K50    W   B N40190000W088205400                      W0028     NAR           BEKKI
        SUSAEAENRT   BLOKR K50    W   B N41145900W088050000                      W0032     NAR           BLOKR
        SUSAEAENRT   BRBIE K50    W     N41390300W088012194                      W0033     NAR           BRBIE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORDK5AORD     0     130YHN41585394W087542402W003000672         1800018000C    MNAR    CHICAGO O'HARE INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORDK5DBACEN14RW04L 010         0        VA                    0425        + 01180     18000
        SUSAP KORDK5DBACEN14RW04L 020         0        VM                    0425
        SUSAP KORDK5DBACEN14RW04L 030BRBIEK5EA0EE   010DF
        SUSAP KORDK5DBACEN14RW04R 010         0        VA                    0445        + 01180     18000
        SUSAP KORDK5DBACEN14RW04R 020         0        VM                    0445
        SUSAP KORDK5DBACEN14RW04R 030BRBIEK5EA0EE   010DF
        SUSAP KORDK5DBACEN14RW09L 010         0        VA                    0930        + 01180     18000
        SUSAP KORDK5DBACEN14RW09L 020         0        VM                    0930
        SUSAP KORDK5DBACEN14RW09L 030BRBIEK5EA0EE   010DF
        SUSAP KORDK5DBACEN14RW09R 010         0        VA                    0930        + 01180     18000
        SUSAP KORDK5DBACEN14RW09R 020         0        VM                    0930
        SUSAP KORDK5DBACEN14RW09R 030BRBIEK5EA0EE   010DF
        SUSAP KORDK5DBACEN14RW10  010         0        VA                    0929        + 01180     18000
        SUSAP KORDK5DBACEN14RW10  020         0        VM                    0929
        SUSAP KORDK5DBACEN14RW10  030BRBIEK5EA0EE   010DF
        SUSAP KORDK5DBACEN14RW14B 010         0        VA                    1430        + 01180     18000
        SUSAP KORDK5DBACEN14RW14B 020         0        VM                    1430
        SUSAP KORDK5DBACEN14RW14B 030BRBIEK5EA0EE   010DF
        SUSAP KORDK5DBACEN14RW22L 010         0        VA                    2245        + 01180     18000
        SUSAP KORDK5DBACEN14RW22L 020         0        VM                    2245
        SUSAP KORDK5DBACEN14RW22L 030BRBIEK5EA0EE   010DF
        SUSAP KORDK5DBACEN14RW22R 010         0        VA                    2250        + 01180     18000
        SUSAP KORDK5DBACEN14RW22R 020         0        VM                    2250
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QUALITY CHECKED 4

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN RNAV	ONE	BACEN1.BACEN	NONE		

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SUSAP KORDK5DBACEN14RW22R 030BRBIEK5EA0EE   010DF
SUSAP KORDK5DBACEN14RW27L 010         0        VA                    2730        + 01180     18000
SUSAP KORDK5DBACEN14RW27L 020         0        VM                    2730
SUSAP KORDK5DBACEN14RW27L 030BRBIEK5EA0EE   010DF
SUSAP KORDK5DBACEN14RW27R 010         0        VA                    2730        + 01180     18000
SUSAP KORDK5DBACEN14RW27R 020         0        VM                    2730
SUSAP KORDK5DBACEN14RW27R 030BRBIEK5EA0EE   010DF
SUSAP KORDK5DBACEN14RW28  010         0        VA                    2729        + 01180     18000
SUSAP KORDK5DBACEN14RW28  020         0        VM                    2729
SUSAP KORDK5DBACEN14RW28  030BRBIEK5EA0EE   010DF
SUSAP KORDK5DBACEN14RW32B 010         0        VA                    3230        + 01180     18000
SUSAP KORDK5DBACEN14RW32B 020         0        VM                    3230
SUSAP KORDK5DBACEN14RW32B 030BRBIEK5EA0EE   010DF
SUSAP KORDK5DBACEN15      010BRBIEK5EA0E        IF                                            18000
SUSAP KORDK5DBACEN15      020BACENK5EA0EE   010TF                    18420147
SUSAP KORDK5DBACEN16BEKKI 010BACENK5EA0E        IF                                            18000
SUSAP KORDK5DBACEN16BEKKI 020BLOKRK5EA0E    010TF                    19750097
SUSAP KORDK5DBACEN16BEKKI 030BEKKIK5EA0EE   010TF                    19530572
SUSAP KORDK5DBACEN16RBS   010BACENK5EA0E        IF                                            18000
SUSAP KORDK5DBACEN16RBS   020BLOKRK5EA0E    010TF                    19750097
SUSAP KORDK5DBACEN16RBS   030RBS  K5D 0VE   010TF                    18830402
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                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORDK5GRW04L   0075000425 N41585396W087545010-0100    +016630065600005 5150RIHNA0
        SUSAP KORDK5GRW04R   0080750445 N41571198W087535791-0100    +016800066100005 2150IIFJU1
        SUSAP KORDK5GRW09L   0075000930 N42001019W087553603-0100    +017000066800005 2150IISAJ3
        SUSAP KORDK5GRW09R   0112610930 N41590202W087555365-0200    +017010066800005 7150IIJAV1
        SUSAP KORDK5GRW10    0130010929 N41580838W087555351-0200    +017130067200005 6150IIMED3
        SUSAP KORDK5GRW14L   0100051430 N41595365W087543832+0000    +016400064919985 5150IIOHA3
        SUSAP KORDK5GRW14R   0096851430 N41592557W087555930-0100    +016930066600005 6200IIORD3
        SUSAP KORDK5GRW22L   0080752245 N41581172W087524708+0100    +016580065400005 5150IILQQ1
        SUSAP KORDK5GRW22R   0075002225 N41595113W087534694+0100    +016380064800004 9150IIRXZ1
        SUSAP KORDK5GRW27L   0112612730 N41590204W087532455+0200    +016460065000005 2150IIIAC3
        SUSAP KORDK5GRW27R   0075002730 N42001019W087535670+0100    +016860066400005 5150IIABU3
        SUSAP KORDK5GRW28    0130012729 N41580865W087530142+0200    +016500065100005 1150IITSL3
        SUSAP KORDK5GRW32L   0096853230 N41581230W087543684+0100    +016580065400005 0200D
        SUSAP KORDK5GRW32R   0100053230 N41585306W087533017+0000    +016400064800007 6150IIIDN1
```

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN RNAV	ONE	BACEN1.BACEN	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW04L		010		VA		FB		042.5()		AA 01180	
	RW04L		020		VM		FB		042.5()			
	RW04L	BRBIE	030		DF		FB	1.0				
	RW04R		010		VA		FB		044.5()		AA 01180	
	RW04R		020		VM		FB		044.5()			
	RW04R	BRBIE	030		DF		FB	1.0				
	RW09L		010		VA		FB		093.0()		AA 01180	
	RW09L		020		VM		FB		093.0()			
	RW09L	BRBIE	030		DF		FB	1.0				
	RW09R		010		VA		FB		093.0()		AA 01180	
	RW09R		020		VM		FB		093.0()			
	RW09R	BRBIE	030		DF		FB	1.0				
	RW10		010		VA		FB		092.9()		AA 01180	
	RW10		020		VM		FB		092.9()			
	RW10	BRBIE	030		DF		FB	1.0				
	RW14B		010		VA		FB		143.0()		AA 01180	
	RW14B		020		VM		FB		143.0()			
	RW14B	BRBIE	030		DF		FB	1.0				
	RW22L		010		VA		FB		224.5()		AA 01180	
	RW22L		020		VM		FB		224.5()			
	RW22L	BRBIE	030		DF		FB	1.0				
	RW22R		010		VA		FB		225.0()		AA 01180	
	RW22R		020		VM		FB		225.0()			
	RW22R	BRBIE	030		DF		FB	1.0				
	RW27L		010		VA		FB		273.0()		AA 01180	
	RW27L		020		VM		FB		273.0()			
	RW27L	BRBIE	030		DF		FB	1.0				
	RW27R		010		VA		FB		273.0()		AA 01180	
	RW27R		020		VM		FB		273.0()			
	RW27R	BRBIE	030		DF		FB	1.0				
	RW28		010		VA		FB		272.9()		AA 01180	
	RW28		020		VM		FB		272.9()			
	RW28	BRBIE	030		DF		FB	1.0				
	RW32B		010		VA		FB		323.0()		AA 01180	
	RW32B		020		VM		FB		323.0()			
	RW32B	BRBIE	030		DF		FB	1.0				
		BRBIE	010		IF		FB					
		BACEN	020		TF		FB	1.0	184.2()	014.7		
	BEKKI	BACEN	010		IF		FB					
	BEKKI	BLOKR	020		TF		FB	1.0	197.5()	009.7		
	BEKKI	BEKKI	030		TF		FB	1.0	195.3()	057.2		
	RBS	BACEN	010		IF		FB					

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BACEN RNAV	ONE	BACEN1.BACEN	NONE		

RBS	BLOKR	020	TF	FB	1.0	197.5()	009.7
RBS	RBS	030	TF	FB	1.0	188.3()	040.2

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
RBS	N403454.13	W0880951.36	N4034.902	W08809.856
BACEN	N412424.00	W0880147.00	N4124.400	W08801.783
BEKKI	N401900.00	W0882054.00	N4019.000	W08820.900
BLOKR	N411459.00	W0880500.00	N4114.983	W08805.000
BRBIE	N413903.00	W0880121.94	N4139.050	W08801.366
RW04L	N415853.96	W0875450.10	N4158.899	W08754.835
RW04R	N415711.98	W0875357.91	N4157.200	W08753.965
RW09L	N420010.19	W0875536.03	N4200.170	W08755.601
RW09R	N415902.02	W0875553.65	N4159.034	W08755.894
RW10	N415808.38	W0875553.51	N4158.140	W08755.892
RW14L	N415953.65	W0875438.32	N4159.894	W08754.639
RW14R	N415925.57	W0875559.30	N4159.426	W08755.988
RW22L	N415811.72	W0875247.08	N4158.195	W08752.785
RW22R	N415951.13	W0875346.94	N4159.852	W08753.782
RW27L	N415902.04	W0875324.55	N4159.034	W08753.409
RW27R	N420010.19	W0875356.70	N4200.170	W08753.945
RW28	N415808.65	W0875301.42	N4158.144	W08753.024
RW32L	N415812.30	W0875436.84	N4158.205	W08754.614
RW32R	N415853.06	W0875330.17	N4158.884	W08753.503

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW04L	00656	55
RW04R	00661	52
RW09L	00668	52
RW09R	00668	57
RW10	00672	56
RW14L	00649	55
RW14R	00666	56
RW22L	00654	55
RW22R	00648	49
RW27L	00650	52
RW27R	00664	55
RW28	00651	51
RW32L	00654	50
RW32R	00648	76

RADIO FIX AND HOLDING DATA RECORD

NAME: BACEN **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 412424.00N/0880147.00W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLOKR (RNAV)			KMDW	CHICAGO	IL (US)
DP	CICERO			KMDW	CHICAGO	IL (US)
DP	MIDWAY			KMDW	CHICAGO	IL (US)
DP	BACEN (RNAV)			KORD	CHICAGO	IL (US)
DP	O'HARE			KORD	CHICAGO	IL (US)
DP	BLOKR (RNAV)			KARR	CHICAGO/AURORA	IL (US)
DP	BLOKR (RNAV)			KLOT	CHICAGO/ROMEOVILLE	IL (US)
DP	JORJO (RNAV)			KUGN	CHICAGO/WAUKEGAN	IL (US)
DP	BLOKR (RNAV)			KDPA	CHICAGO/WEST CHICAGO	IL (US)
DP	BLOKR (RNAV)			KGYY	GARY	IN (US)
EN ROUTE	PITCH/CATCH FROM CHICAGO AIRSPACE					(US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/14/2008

DEVELOPED BY: **DATE:** 08/22/2007 **OFFICE:** AVN-120 **NAME:** THOMAS KIRKPATRICK

APPROVED BY: **DATE:** 11/02/2007 **OFFICE:** AVN-120 **NAME:** JOHN BICKERSTAFF

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU, ZKC, ZID
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BEKKI **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 401900.00N/0882054.00W **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
DP	BLOKR (RNAV)			KMDW	CHICAGO	IL (US)
DP	BACEN (RNAV)			KORD	CHICAGO	IL (US)
DP	BLOKR (RNAV)			KARR	CHICAGO/AURORA	IL (US)
DP	BLOKR (RNAV)			KLOT	CHICAGO/ROMEOVILLE	IL (US)
DP	JORJO (RNAV)			KUGN	CHICAGO/WAUKEGAN	IL (US)
DP	BLOKR (RNAV)			KDPA	CHICAGO/WEST CHICAGO	IL (US)
DP	BLOKR (RNAV)			KGYY	GARY	IN (US)
EN ROUTE	PITCH/CATCH FROM CHICAGO AIRSPACE					(US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
1. ADDED DP TO REQUIRED CHARTING.
2. ADDED FIX USE FOR BACEN, BLOKR, AND JORJO RNAV DEPARTURES.

DEVELOPED BY: **DATE:** 07/12/2012 **OFFICE:** AJV-353 **NAME:** STEVE NELSON

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZAU
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BLOKR **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 411459.00N/0880500.00W **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
DP	BLOKR (RNAV)			KMDW	CHICAGO	IL (US)
DP	BACEN (RNAV)			KORD	CHICAGO	IL (US)
DP	BLOKR (RNAV)			KARR	CHICAGO/AURORA	IL (US)
DP	BLOKR (RNAV)			KLOT	CHICAGO/ROMEOVILLE	IL (US)
DP	JORJO (RNAV)			KUGN	CHICAGO/WAUKEGAN	IL (US)
DP	BLOKR (RNAV)			KDPA	CHICAGO/WEST CHICAGO	IL (US)
DP	BLOKR (RNAV)			KGYY	GARY	IN (US)
EN ROUTE	PITCH/CATCH FROM CHICAGO AIRSPACE					(US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
1. ADDED DP TO REQUIRED CHARTING.
2. ADDED FIX USE FOR BACEN, BLOKR, AND JORJO RNAV DEPARTURES.

DEVELOPED BY: **DATE:** 07/12/2012 **OFFICE:** AJV-353 **NAME:** STEVE NELSON

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

SIGNATURE:

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

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BRBIE **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 413903.00N/0880121.94W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BACEN (RNAV)			KORD	CHICAGO	IL (US)
DP	JORJO (RNAV)			KUGN	CHICAGO/WAUKEGAN	IL (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 07/12/2012 **OFFICE:** AJV-353 **NAME:** STEVE NELSON

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZAU
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: ROBERTS VOR/DME **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 403454.13N/0880951.36W **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	ROBERTS	RBS	VOR/DME	L							17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N	RBS	VOR/DME	345.91	165.91	R	1		2500	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (17-002225)	403244.00N/0881508.00W	1143	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
DP	BLOKR (RNAV)			KMDW	CHICAGO	IL (US)
DP	CICERO			KMDW	CHICAGO	IL (US)
DP	MIDWAY			KMDW	CHICAGO	IL (US)
DP	BACEN (RNAV)			KORD	CHICAGO	IL (US)
DP	O'HARE			KORD	CHICAGO	IL (US)
DP	BLOKR (RNAV)			KARR	CHICAGO/AURORA	IL (US)
DP	PAL WAUKEE			KPWK	CHICAGO/PROSPECT HGTS/WHEELING	IL (US)
DP	BLOKR (RNAV)			KLOT	CHICAGO/ROMEOVILLE	IL (US)
DP	JORJO (RNAV)			KUGN	CHICAGO/WAUKEGAN	IL (US)
DP	BLOKR (RNAV)			KDPA	CHICAGO/WEST CHICAGO	IL (US)
DP	BLOKR (RNAV)			KGYY	GARY	IN (US)
EN ROUTE	J19-71					(US)
EN ROUTE	J19					IL (US)
EN ROUTE	J71					IL (US)
EN ROUTE	V191					IL (US)
EN ROUTE	V227					IL (US)
EN ROUTE	V233					IL (US)
EN ROUTE	V429					IL (US)
IAP	ILS OR LOC RWY 20			KBMI	BLOOMINGTON/NORMAL	IL (US)
IAP	ILS OR LOC RWY 29			KBMI	BLOOMINGTON/NORMAL	IL (US)
IAP	ILS OR LOC/DME RWY 2			KBMI	BLOOMINGTON/NORMAL	IL (US)
IAP	ILS RWY 20 (CATII)			KBMI	BLOOMINGTON/NORMAL	IL (US)
IAP	RNAV (GPS) RWY 14L			KCMI	CHAMPAIGN/URBANA	IL (US)
IAP	RNAV (GPS) RWY 22			KCMI	CHAMPAIGN/URBANA	IL (US)
IAP	VOR RWY 4			KCMI	CHAMPAIGN/URBANA	IL (US)
IAP	VOR/DME RWY 14L			KCMI	CHAMPAIGN/URBANA	IL (US)
IAP	VOR/DME RWY 22			KCMI	CHAMPAIGN/URBANA	IL (US)
IAP	LOC RWY 2			KLOT	CHICAGO/ROMEOVILLE	IL (US)
IAP	ILS OR LOC RWY 21			KDNV	DANVILLE	IL (US)
IAP	RNAV (GPS) RWY 27			KDTG	DWIGHT	IL (US)
IAP	ILS OR LOC RWY 4			KIKK	KANKAKEE	IL (US)
IAP	RNAV (GPS) RWY 34			KIKK	KANKAKEE	IL (US)
IAP	RNAV (GPS) RWY 4			KIKK	KANKAKEE	IL (US)
IAP	VOR RWY 22			KIKK	KANKAKEE	IL (US)
IAP	VOR RWY 4			KIKK	KANKAKEE	IL (US)
IAP	VOR RWY 18		1	K1C1	PAXTON	IL (US)
IAP	RNAV (GPS) RWY 24			KPNT	PONTIAC	IL (US)
IAP	RNAV (GPS) RWY 6			KPNT	PONTIAC	IL (US)
IAP	VOR RWY 24			KPNT	PONTIAC	IL (US)
IAP	VOR RWY 27			KTIP	RANTOUL	IL (US)
IAP	VOR OR GPS - A			KC16	URBANA	IL (US)
IAP	VOR/DME OR GPS - B			KC16	URBANA	IL (US)
STAR	AARCH (RNAV)			KSTL	ST LOUIS	MO (US)
STAR	VANDALIA			KSTL	ST LOUIS	MO (US)

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

COMPULSORY REPORTING POINT: NO

QUALITY 3 CHECKED

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 07/01/2010

INFO ONLY

REASON FOR REVISION:
1. UPDATED CONTROLLING OBSTACLE.
2. UPDATED FIX USE
3. ADDED HOLDING RESTRICTION.
4. REMOVED ESV ON FILE NOTE.
5. CHANGED HOLDING PATTERN 1 INBOUND COURSE FROM 166 TO 165.91 TO ALIGN WITH FINAL.
6. ADDED PRECIPITOUS EVALUATION NOTE.

DEVELOPED BY:	**DATE:** 01/11/2010	**OFFICE:** AVN-120	**NAME:** JOSE ALFONSO (SCOTT BAGENSIE)
APPROVED BY:	**DATE:** 05/11/2010	**OFFICE:** AVN-120	**NAME:** SUE CRUMB
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZAU
ATC FACILITY: ORD APP CON, BMI ATCT, CMI ATCT
OTHER:

QUALITY CHECKED 3

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:

CHICAGO, IL
CHICAGO O'HARE INTL (KORD)
BACEN (RNAV) DEPARTURE PROCEDURE

2. Waiver Required and Applicable Standard:

FAAO 8260.46D, PARA 2-1 e. (2). MULTIPLE CLIMB GRADIENTS ARE REQUIRED ON THE BACEN (RNAV) DEPARTURE PROCEDURE TO COMPLY WITH NECESSARY ALTITUDE RESTRICTIONS.

3. Reason for Waiver *(Justification for nonstandard treatment)*:

ATC REQUIRES AIRCRAFT DEPARTING CHICAGO ON THE BACEN (RNAV) DEPARTURE PROCEDURE TO CROSS O'HARE VOR/DME 5 DME AT OR ABOVE 3,000 FT AND CROSS O'HARE VOR/DME 8 DME AT OR ABOVE 4,000 FT. THESE RESTRICTIONS ARE NECESSARY TO SEPARATE THE CHICAGO O'HARE INTERNATIONAL (KORD) DEPARTURES FROM CHICAGO-MIDWAY INTERNATIONAL AIRPORT (KMDW) AND DEPARTURES FROM OTHER CHICAGO SATELLITE AIRPORT OPERATIONS. SINCE DME ARCS CANNOT BE USED ON RNAV SIDS PER FAAO 8260.46D APPENDIX A PARA 1E, THE SHORTEST DISTANCE FROM THE DEPARTURE END OF EACH RUNWAY TO THE 5-DME ARC WAS MEASURED AND USED TO DETERMINE THE CLIMB GRADIENT NEEDED TO REACH 3,000 FT.

4. Equivalent Level of Safety Provided:

DATA COLLECTED ON DEPARTURES UTILIZING THE O'HARE SIX CONVENTIONAL SID DURING THE PERIOD FROM 23-27 APRIL 2012, WITH THE SAME CROSSING RESTRICTIONS IN PLACE, SHOW NO RECORDED PILOT DEVIATIONS FOR AIRCRAFT NOT MEETING THE CROSSING RESTRICTIONS.

A NOTE: IF UNABLE TO ACCEPT CLIMB GRADIENT, ADVISE ATC ON INITIAL CONTACT, IS INCLUDED ON THE PROCEDURE.

RADAR IS REQUIRED FOR ALL AIRCRAFT USING THIS PROCEDURE.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:

N/A

6. Coordination With User Organizations *(Specify)*:

AJV-353_____
AJV-351_____

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
	AJV-35	MANAGER, TERMINAL PRODUCTS GROUP	GREGORY YAMAMOTO

8. CONTINUATION
Comments:

9. AFS ACTION		
		Approved
		Disapproved
		Not Required

Comments:

Date:	Routing Symbol:	Signature:

APPROVAL REQUEST

SID BACEN (RNAV) ONE, Chicago O'Hare INTL (KORD), Chicago, IL

Climb gradients exceed 500 FT PER NM, Order 8260.46D, PARA 2-1d(2).

Request approval for climb gradients in excess of 500 FT per NM to 3000 FT, for the following RWYS at Chicago O'Hare INTL (KORD):

RWY 4L: 547 FT PER NM TO 3000
RWY 4R: 690 FT PER NM TO 3000
RWY 9L: 570 FT PER NM TO 3000
RWY 9R: 541 FT PER NM TO 3000
RWY 10: 672 FT PER NM TO 3000
RWY 14L: 547 FT PER NM TO 3000
RWY 14R: 670 FT PER NM TO 3000
RWY 22L: 807 FT PER NM TO 3000
RWY 22R: 521 FT PER NM TO 3000
RWY 27L: 532 FT PER NM TO 3000
RWY 27R: 631 FT PER NM TO 3000
RWY 28: 685 FT PER NM TO 3000
RWY 32L: 631 FT PER NM TO 3000
RWY 32R: 587 FT PER NM TO 3000

These climb gradients are necessary for aircraft to reach O'Hare VOR/DME 5 DME at 3000 FT, to separate the Chicago O' Hare INTL (KORD) departures from Chicago-Midway INTL (KMDW) airport and departures from other Chicago satellite airport operations.

Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	3/19/2012 9:15:23 AM
Input File:	KORD_PNA_BRBIE_BACEN
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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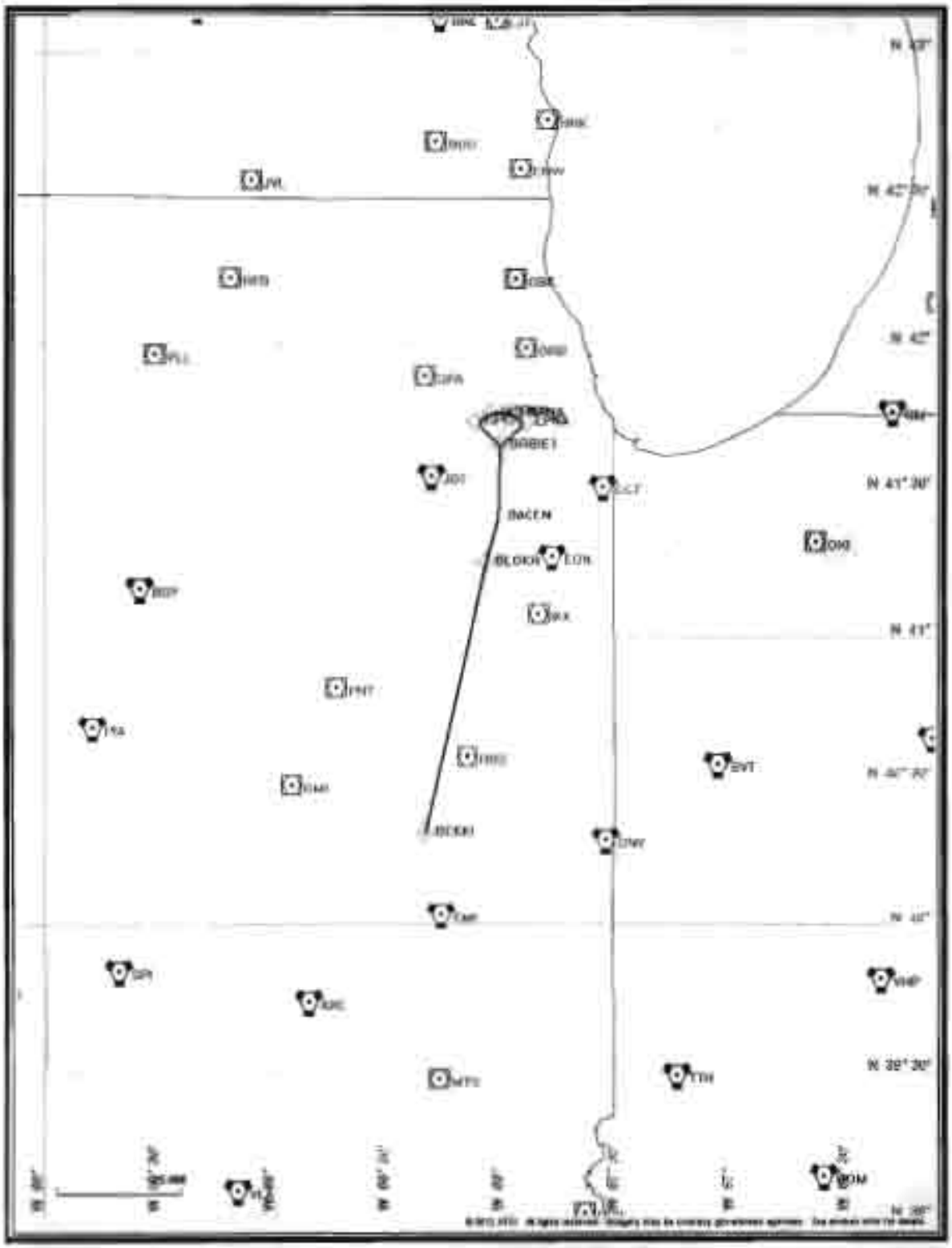

BRBIE1
BACEN
N 41°30'

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BRBIE	WP	N 41° 39' 3.00" W 88° 1' 21.94"	5000.0	VNAV	200.0	Fly Over	TF
LPNA	WP	N 41° 43' 53.51" W 87° 54' 36.90"	5000.0	VNAV	200.0	Fly By	TF
M1PNA	WP	N 41° 45' 46.43" W 87° 58' 45.13"	5000.0	VNAV	200.0	Fly By	TF
M2PNA	WP	N 41° 45' 51.09" W 88° 3' 35.56"	5000.0	VNAV	200.0	Fly By	TF
RPNA	WP	N 41° 44' 6.23" W 88° 7' 50.05"	5000.0	VNAV	200.0	Fly By	TF
BRBIE1	WP	N 41° 39' 3.00" W 88° 1' 21.94"	5000.0	VNAV	200.0	Fly By	TF
BACEN	WP	N 41° 24' 24.00" W 88° 1' 47.00"	5000.0	VNAV	200.0	Fly By	TF
BLOKR	WP	N 41° 14' 59.00" W 88° 5' 0.00"	5000.0	VNAV	200.0	Fly By	TF
BEKKI	WP	N 40° 19' 0.00" W 88° 20' 54.00"	5000.0	VNAV	200.0	Fly Over	TF

Flyability	Return To Summary
Settings:	**Flight Type:** Arrival/Approach **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table: **200.0 Kts** up to **11000.0 Ft.** **240.0 Kts** up to **18000.0 Ft.** **260.0 Kts** up to **24000.0 Ft.** **340.0 Kts** up to **99900.0 Ft.** **Wind Settings:** *None assigned* **Descent During a Turn:** Allowed **VNAV Mode:** Flight Plan
Entire track is fly-able	

DME/DME	Return To Summary
Settings:	**RNP:** 2.0 **Flight Mode:** Manual **Line of Sight (DTED Level 0 Max):** Evaluated **DME Restrictions:** Evaluated **Inertial Drift:** Enabled **Initial Drift:** 0.558 NM **INS Drift Rate:** 8.000 NM/Hour **Range Mode:** OSV **Co-Frequencies:** Evaluated **RNP Edges:** Evaluated **Min DME Range:** 3.0 NM **Allowed Gap Length:** 4.0 NM **DME Types:** VOR/DME , VORTAC , TACAN , and User **DME Include Angles:** 30 to 150 **Critical DMEs:** Allowed **DoD Facilities:** Not included **Foreign Facilities:** Not included **Low & Terminal DMEs:** Included **Flight Check DMEs:** Selected **Higher Altitudes:** Evaluated **Near Maximum Altitude:** Evaluated **PNA Import from RDVA-Pro:** KORD PNA BRBIE BACEN

Total Number of DMEs Used: 11

Maximum DME Error: 0.297 NM

No Critical DMEs were found

Available DMEs: DPA, EON, IKK, JOT, OBK, ORD, CGT, RBS, PNT, BMI, CMI, DNV

Foreign DMEs within range: YQG

DME/DME (Continued.)

Return To Summary

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	EON	N 41° 16' 10.68" W 87° 47' 27.79"	L	Database	NO	0.320	Enabled	15.8 %	15.7 %
2	JOT	N 41° 32' 47.10" W 88° 19' 6.28"	H	Database	NO	0.701	Enabled	46.2 %	46.1 %
3	CGT	N 41° 30' 36.02" W 87° 34' 17.57"	L	Database	NO	0.527	Enabled	21.5 %	21.5 %
4	DPA	N 41° 53' 26.30" W 88° 21' 0.62"	L	Database	NO	0.310	Enabled	13.2 %	13.2 %
5	ORD	N 41° 59' 15.62" W 87° 54' 17.59"	L	Database	NO	0.306	Enabled	12.7 %	12.7 %
6	IKK	N 41° 4' 27.77" W 87° 51' 0.59"	L	Database	NO	0.301	Enabled	20.3 %	20.3 %
7	RBS	N 40° 34' 54.13" W 88° 8' 51.36"	L	Database	NO	0.426	Enabled	18.4 %	18.4 %
8	PNT	N 40° 49' 16.32" W 88° 44' 0.63"	L	Database	NO	0.509	Enabled	24.1 %	24.1 %
9	BMI	N 40° 28' 50.90" W 88° 55' 52.56"	L	Database	NO	0.329	Enabled	15.0 %	15.0 %
10	CMI	N 40° 2' 4.30" W 88° 16' 33.62"	L	Database	NO	0.300	Enabled	10.0 %	10.0 %
11	DNV	N 40° 17' 37.63" W 87° 33' 25.87"	L	Database	NO	0.287	Enabled	2.9 %	2.9 %

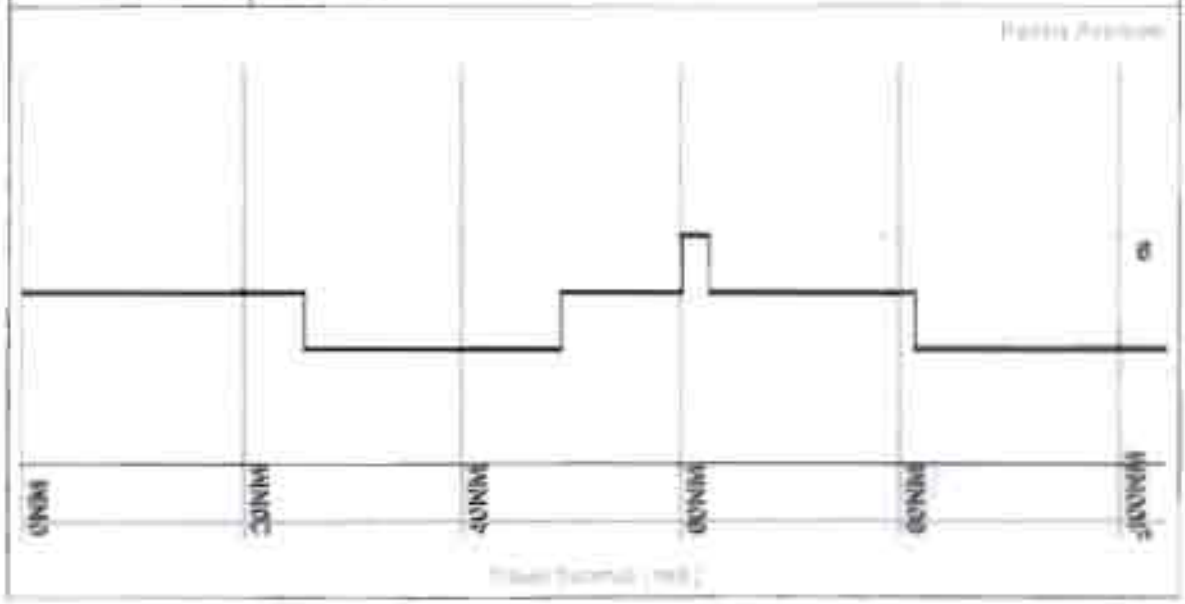
Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	EON	JOT	DPA	ORD	CGT	OBK
5.1	EON	JOT	DPA	OBK	CGT	ORD
8.9	EON	JOT	DPA	ORD	CGT	OBK
12.6	EON	JOT	DPA	ORD	OBK	
14.8	EON	JOT	DPA	ORD	OBK	IKK
21.9	EON	JOT	IKK	ORD	CGT	DPA
36.8	EON	JOT	IKK	DPA	CGT	ORD
46.8	EON	JOT	IKK	PNT	CGT	RBS
66.1	EON	JOT	IKK	PNT	RBS	
76.3	BMI	CMI	IKK	PNT	RBS	EON
93.4	BMI	CMI	DNV	PNT	RBS	

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



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Software:	RNAV-Pro™
Version:	2.35
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Input File:	KORD_PNA_BRBIE_BACEN...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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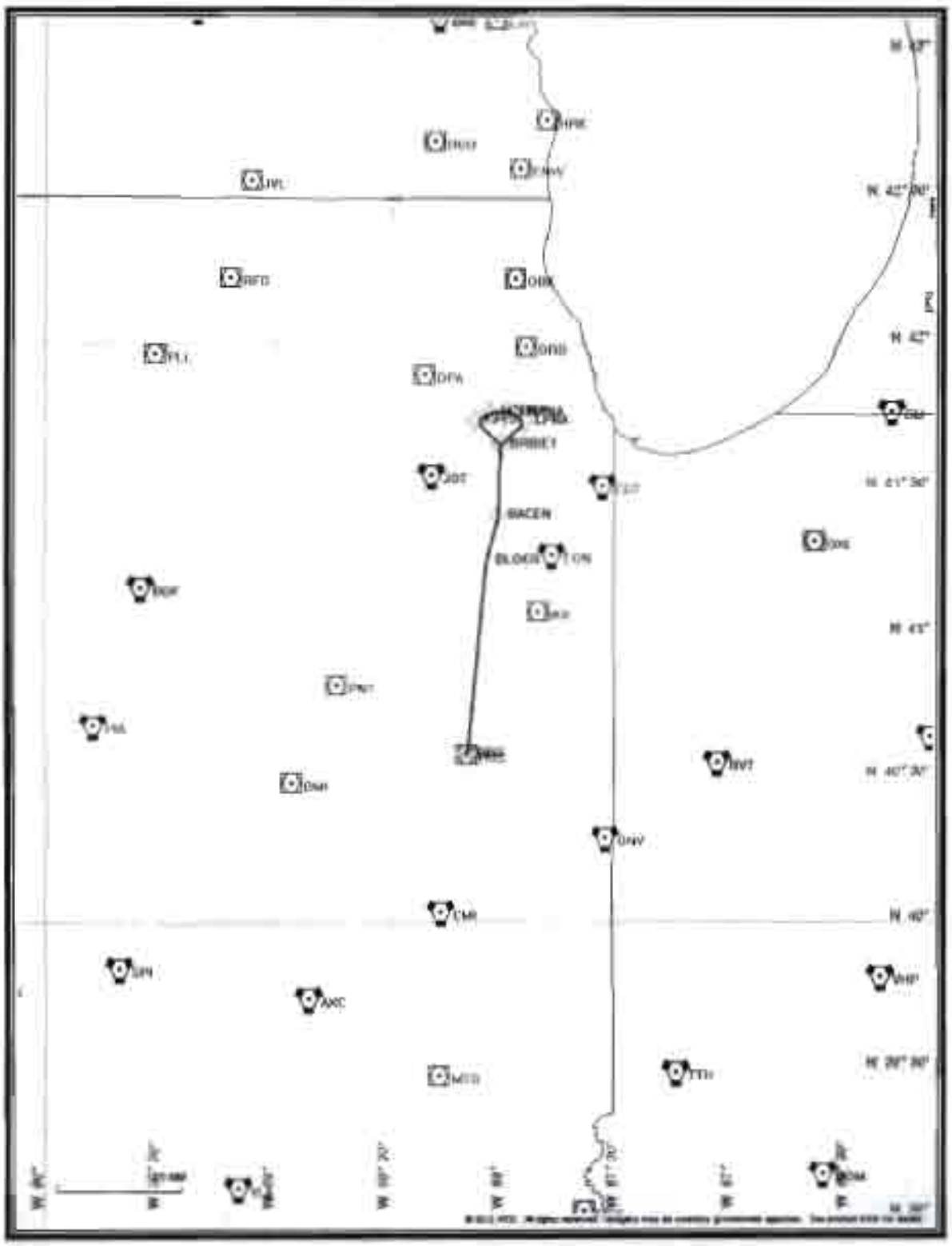

BRBIE
BACEN
BLOGR
N 42°30'
N 42°
N 41°30'
N 41°
N 40°30'
N 40°
N 39°30'

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BRBIE	WP	N 41° 39' 3.00" W 88° 1' 21.94"	5000.0	VNAV	200.0	Fly Over	TF
LPNA	WP	N 41° 43' 53.51" W 87° 54' 36.90"	5000.0	VNAV	200.0	Fly By	TF
M1PNA	WP	N 41° 45' 46.43" W 87° 58' 45.13"	5000.0	VNAV	200.0	Fly By	TF
M2PNA	WP	N 41° 45' 51.09" W 88° 3' 35.58"	5000.0	VNAV	200.0	Fly By	TF
RPNA	WP	N 41° 44' 6.23" W 88° 7' 50.05"	5000.0	VNAV	200.0	Fly By	TF
BRBIE1	WP	N 41° 39' 3.00" W 88° 1' 21.94"	5000.0	VNAV	200.0	Fly By	TF
BACEN	WP	N 41° 24' 24.00" W 88° 1' 47.00"	5000.0	VNAV	200.0	Fly By	TF
BLOKR	WP	N 41° 14' 59.00" W 88° 5' 0.00"	5000.0	VNAV	200.0	Fly By	TF
RBS	WP	N 40° 34' 54.13" W 88° 9' 51.36"	5000.0	VNAV	200.0	Fly Over	TF

Flyability		Return To Summary
Settings:	**Flight Type:** Arrival/Approach **Aircraft Category:** Cat D **Climb Gradient:** *None assigned* **Ground Speeds:** Table **200.0 Kts** up to **11000.0 Ft.** **240.0 Kts** up to **18000.0 Ft.** **260.0 Kts** up to **24000.0 Ft.** **340.0 Kts** up to **99900.0 Ft.** **Wind Settings:** *None assigned* **Descent During a Turn:** Allowed **VNAV Mode:** Flight Plan	
Entire track is fly-able		

DME/DME	Return To Summary
Settings:	**RNP:** 2.0 **Flight Mode:** Manual **Line of Sight (DTED Level 0 Max):** Evaluated **DME Restrictions:** Evaluated **Inertial Drift:** Enabled **Initial Drift:** 0.558 NM **INS Drift Rate:** 8.000 NM/Hour **Range Mode:** OSV **Co-Frequencies:** Evaluated **RNP Edges:** Evaluated **Min DME Range:** 3.0 NM **Allowed Gap Length:** 4.0 NM **DME Types:** VOR/DME , VORTAC , TACAN , and User **DME Include Angles:** 30 to 150 **Critical DMEs:** Allowed **DoD Facilities:** Not included **Foreign Facilities:** Not included **Low & Terminal DMEs:** Included **Flight Check DMEs:** Selected **Higher Altitudes:** Evaluated **Near Maximum Altitude:** Evaluated **PNA Import from RDVA-Pro:** KORD PNA BRBIE BACEN

Total Number of DMEs Used: 10

Maximum DME Error 0.295 NM

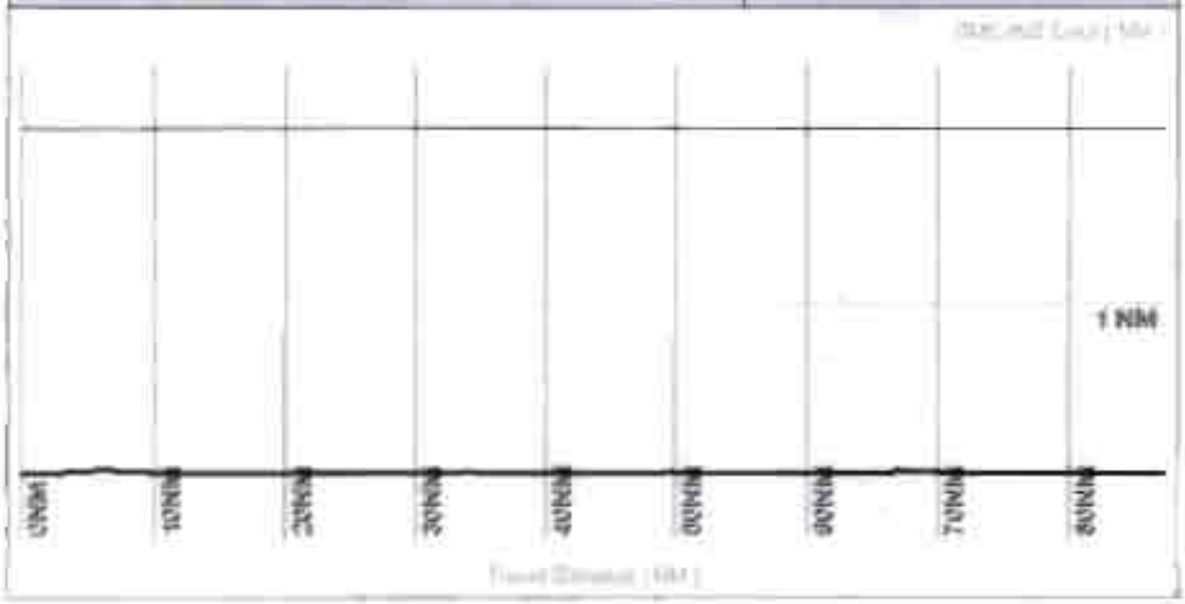
No Critical DMEs were found

Available DMEs: DPA, EON, IKK, JOT, OBK, ORD, CGT, RBS, PNT, DNV, CMI, BMI

Foreign DMEs within range: YQG

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	EON	N 41° 16' 10.68" W 87° 47' 27.79"	L	Database	NO	0.320	Enabled	18.6 %	18.5 %
2	JOT	N 41° 32' 47.10" W 88° 19' 6.28"	H	Database	NO	0.410	Enabled	50.0 %	50.0 %
3	CGT	N 41° 30' 36.02" W 87° 34' 17.57"	L	Database	NO	0.527	Enabled	25.7 %	25.7 %
4	DPA	N 41° 53' 25.30" W 88° 21' 0.62"	L	Database	NO	0.310	Enabled	15.7 %	15.7 %
5	ORD	N 41° 59' 15.62" W 87° 54' 17.59"	L	Database	NO	0.306	Enabled	15.2 %	15.2 %
6	IKK	N 41° 4' 27.77" W 87° 51' 0.59"	L	Database	NO	0.469	Enabled	24.8 %	24.8 %
7	RBS	N 40° 34' 54.13" W 88° 9' 51.36"	L	Database	NO	0.413	Enabled	19.5 %	19.5 %
8	PNT	N 40° 49' 16.32" W 88° 44' 0.63"	L	Database	NO	0.817	Enabled	28.8 %	28.8 %
9	DNV	N 40° 17' 37.63" W 87° 33' 25.87"	L	Database	NO	0.295	Enabled	1.7 %	1.7 %
10	CMI	N 40° 2' 4.30" W 88° 16' 33.82"	L	Database	NO	0.295	Enabled	0.0 %	0.0 %

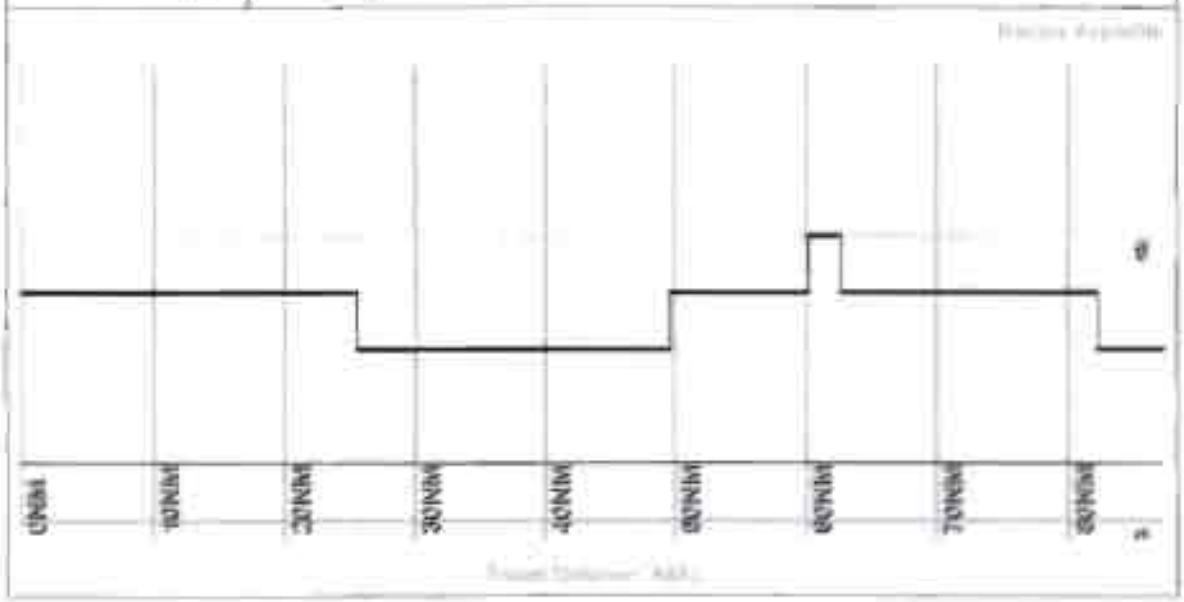
Flight Check DME Selection

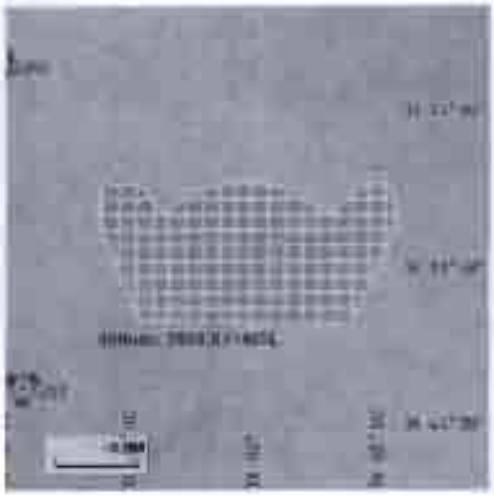
Distance [NM]	Selected DMEs					Alternate
0.0	EON	JOT	DPA	ORD	CGT	OBK
5.1	EON	JOT	DPA	OBK	CGT	ORD
8.9	EON	JOT	DPA	ORD	CGT	OBK
12.8	EON	JOT	DPA	ORD	OBK	
14.8	EON	JOT	DPA	ORD	OBK	IKK
21.9	EON	JOT	IKK	ORD	CGT	DPA
36.8	EON	JOT	IKK	DPA	CGT	ORD
46.6	EON	JOT	IKK	RBS	CGT	PNT
56.8	EON	JOT	IKK	RBS	PNT	CGT
66.9	EON	DNV	IKK	RBS	PNT	CMI

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.34
Date/Time:	7/6/2010 1:46:54 PM
Input File:	Grid Area Assessment
Databases:	AVNIS Date: 04/05/2010
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Grid	✔ DME/DME Grid Analysis

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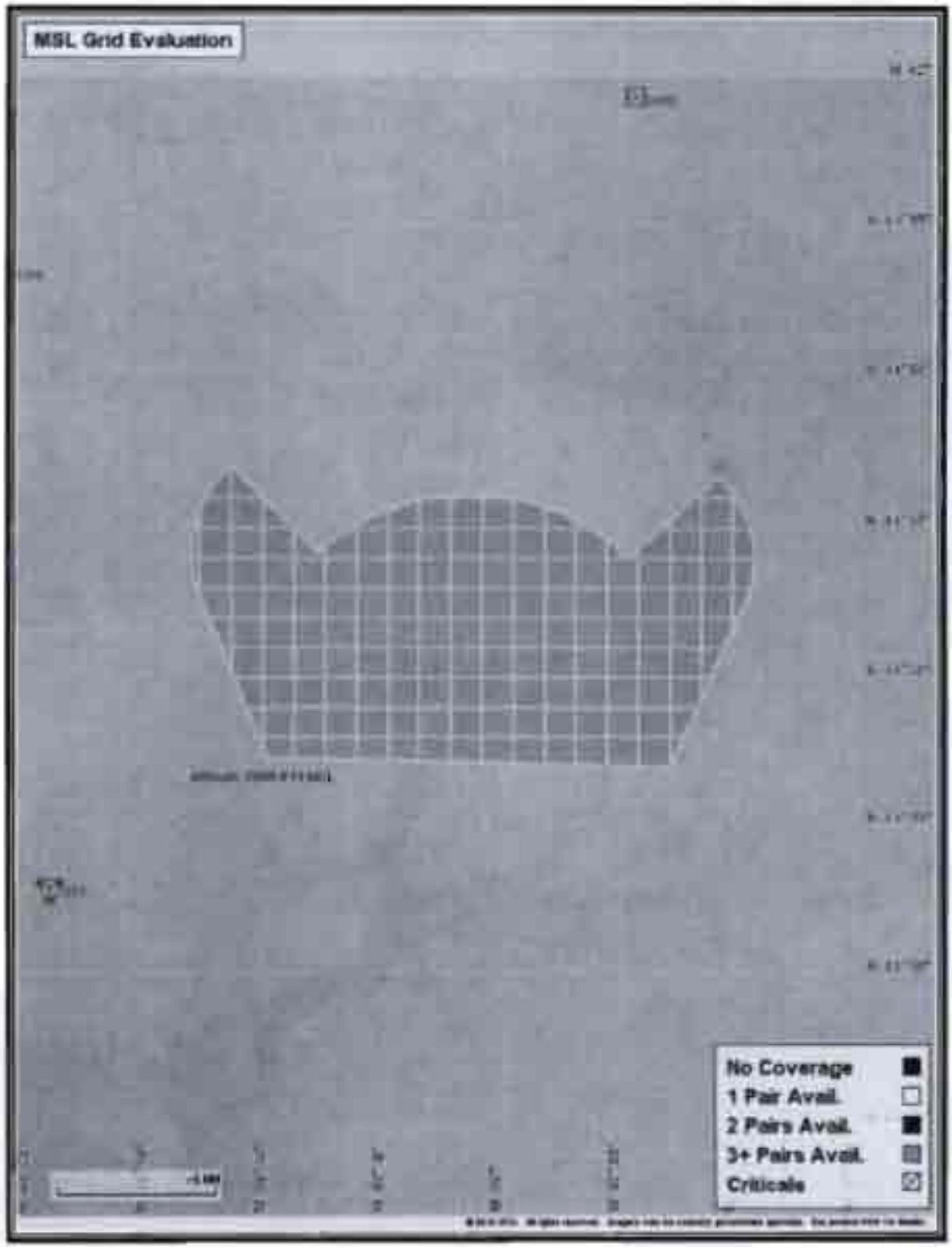
MSL Grid Evaluation
No Coverage
1 Pair Avail.
2 Pairs Avail.
3+ Pairs Avail.
Criticals

DME/DME Grid Analysis

Return To Summary

Coverage Exists

Settings:

Polygon Grid Definition:

1	Lat: N 41° 43' 53.51" Lon: W 87° 54' 36.90"	21	Lat: N 41° 45' 31.08" Lon: W 88° 12' 49.98"
2	Lat: N 41° 46' 39.56" Lon: W 87° 50' 45.28"	22	Lat: N 41° 45' 57.83" Lon: W 88° 12' 33.95"
3	Lat: N 41° 46' 17.18" Lon: W 87° 50' 19.99"	23	Lat: N 41° 46' 22.91" Lon: W 88° 12' 13.68"
4	Lat: N 41° 45' 52.66" Lon: W 87° 49' 58.53"	24	Lat: N 41° 46' 45.96" Lon: W 88° 11' 49.47"
5	Lat: N 41° 45' 26.36" Lon: W 87° 49' 41.23"	25	Lat: N 41° 46' 59.54" Lon: W 88° 11' 31.99"
6	Lat: N 41° 44' 58.68" Lon: W 87° 49' 28.34"	26	Lat: N 41° 44' 6.22" Lon: W 88° 7' 50.05"
7	Lat: N 41° 44' 30.02" Lon: W 87° 49' 20.06"	27	Lat: N 41° 44' 6.22" Lon: W 88° 7' 50.05"
8	Lat: N 41° 44' 0.83" Lon: W 87° 49' 16.50"	28	Lat: N 41° 44' 39.44" Lon: W 88° 6' 57.84"
9	Lat: N 41° 43' 31.52" Lon: W 87° 49' 17.72"	29	Lat: N 41° 45' 7.63" Lon: W 88° 6' 0.60"
10	Lat: N 41° 43' 2.55" Lon: W 87° 49' 23.69"	30	Lat: N 41° 45' 30.38" Lon: W 88° 4' 59.19"
11	Lat: N 41° 42' 34.34" Lon: W 87° 49' 34.33"	31	Lat: N 41° 45' 47.34" Lon: W 88° 3' 54.52"
12	Lat: N 41° 42' 16.80" Lon: W 87° 49' 43.57"	32	Lat: N 41° 45' 58.27" Lon: W 88° 2' 47.57"
13	Lat: N 41° 36' 54.39" Lon: W 87° 52' 52.40"	33	Lat: N 41° 46' 2.99" Lon: W 88° 1' 39.33"
14	Lat: N 41° 37' 10.92" Lon: W 88° 9' 58.47"	34	Lat: N 41° 46' 1.45" Lon: W 88° 0' 30.83"
15	Lat: N 41° 42' 38.99" Lon: W 88° 12' 48.65"	35	Lat: N 41° 45' 53.65" Lon: W 87° 59' 23.10"
16	Lat: N 41° 43' 6.90" Lon: W 88° 13' 0.63"	36	Lat: N 41° 45' 39.72" Lon: W 87° 58' 17.15"
17	Lat: N 41° 43' 35.69" Lon: W 88° 13' 7.99"	37	Lat: N 41° 45' 19.87" Lon: W 87° 57' 13.97"

DME/DME Grid Analysis (Continued.)	Return To Summary
Coverage Exists	
Settings:	**Polygon Grid Definition:** **18** Lat: N 41° 44' 4.95" Lon: W 88° 13' 10.61" **19** Lat: N 41° 44' 34.22" Lon: W 88° 13' 8.45" **20** Lat: N 41° 45' 3.07" Lon: W 88° 13' 1.54" **38** Lat: N 41° 44' 54.39" Lon: W 87° 56' 14.50" **39** Lat: N 41° 44' 23.67" Lon: W 87° 55' 19.64" **40** Lat: N 41° 43' 53.51" Lon: W 87° 54' 36.90" **Lat Step:** 1 NM **Lon Step:** 1 NM **Line of Sight (DTED Level 0 Max):** Evaluated **DME Restrictions:** Evaluated **Co-Frequencies:** Evaluated **Min DME Range:** 3.0 NM **Allowed Gap Length:** 4.0 NM **DME Types:** VOR/DME and VORTAC **DME Include Angles:** 30 to 150 **DoD Facilities:** Not included **Foreign Facilities:** Not included **Low & Terminal DMEs:** Included **Altitude:** Scanning For Minimum Passing Alt every 1000.0 Ft. MSL

DME/DME Grid Analysis (Continued.)

Return To Summary

Passing Altitude: 2000.0 Ft.

Maximum Gap: 0.0 NM

Maximum Critical Gap: 0.0 NM

	AGL Altitudes
Min Cell Altitude	1,206.0 Ft.
Max Cell Altitude	1,399.6 Ft.
Mean Cell Altitude	1,286.4 Ft.
Std. Dev. Cell Altitude	40.7 Ft.

Statistics based only on passing cells.

Most Used DMEs: ORD (167), OBK (167), JOT (167), EON (167), DPA (167), IKK (110), and CGT (100).