

Flight Procedures Cover Page	Task Action: FLIGHT CHECK	Task Type: SID	Estimated Chart Date: 08/12/2021	APWS Task ID: 960483E668BD4D859D1038600A84A7EE	APWS Project ID: 4AE8344BD21247E596A273602A9F5D29
Procedure: RNAV SID AARPS ONE		Enroute: YES	Specialist: Hill, Casey		Agreement Number:
Airport ID: KFLI			Airport City: FORT LAUDERDALE		State: FL
Facility ID:	Facility Type:	Flight Inspection Remark Type: New FC Slot			
<p>Procedure Comments: ESTABLISH</p> <p>AFS WAIVER INCLUDED FOR KFLI 28L/R TARGETS EVALUATION ERROR</p> <p>FL METROPLEX</p> <p>CONTACT DAVE TEFFETLLER (240) 457-1998</p> <p>6/15/2021: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 6/1/2021:</p> <p>1. UPDATED AAUP CHART NOTE FROM "SEE ADDITIONAL REQUIREMENTS ON AAUP" TO " (FORT LAUDERDALE/HOLLYWOOD INTL AND MIAMI INTL ONLY) SEE ADDITIONAL REQUIREMENTS ON AAUP"- AAUP ONLY APPLIES TO THESE AIRPORTS.</p> <p>2. UPDATED FORT LAUDERDALE/HOLLYWOOD INTL - CHART: TOP ALTITUDE NOTE FROM FL230 TO AS ASSIGNED BY ATC AND UPDATED DP ROUTE DESCRIPTION ACCORDINGLY - PER ATC REQUEST.</p> <p>3. REMOVED ALTITUDE RESTRICTION OF 5000 AT RMIRO AND SOESO OFF 15C AND ROUTE DESCRIPTION - PER ATC REQUEST.</p>					



1. FLIGHT PROCEDURE IDENTIFICATION:

Ft. Lauderdale, FL
Ft. Lauderdale-Hollywood INTL (KFL)
AARPS ONE DEPARTURE (RNAV)

2. WAIVER REQUIRED AND APPLICABLE STANDARD:

Waiver requirement to utilize the departure sector criteria to evaluate AARPS ONE DEPARTURE (RNAV) SID, KFL RWY 28L for obstacles. FAA Order 8260.58B, United States Standard for Performance Based Navigation (PBN) Instrument Procedure Design, Paragraph 5-3-1a(1)(b). Turn following VI Leg.

3. REASON FOR WAIVER (JUSTIFICATION FOR NONSTANDARD TREATMENT):

TARGETS defines the following run error message when the VI-CF leg on RWY 28L is evaluated for obstacles; "CEW26: The OEA for the leg from CF to DREDS in the route beginning at RW28L and ending at ONEWY could not be constructed." MITRE has stated that this is an issue with TARGETS. AJV-A does not have a work around for this error.

4. EQUIVALENT LEVEL OF SAFETY PROVIDED:

1. An obstacle assessment was completed using departure sector criteria. The sector evaluated encompassed the OEA for the VI-CF leg. No 40:1 obstacle penetrations were identified using the sector criteria.
2. Flight inspection has completed a satisfactory flight validation.
3. Once MITRE has identified the issue and fixed it the procedure will be reevaluated using TARGETS.

5. ALTERNATIVE ACTIONS DEEMED NOT FEASIBLE:

Changes to the lateral path(including speed and altitude) introduce a new environmental assessment and coordination with Broward County Aviation Department (BCAD) and their Community Noise Groups. These delays are not acceptable to ATC.

6. COORDINATION WITH USER ORGANIZATIONS (SPECIFY):

Eastern Service Area PBN FAA and NATCA leads.
FLL ATCT
MIA Approach Control
American Airlines

7. SUBMITTED BY:

DATE	OFFICE IDENTIFICATION	TITLE
04/28/21	AJV-E22	Florida Metroplex Co-Lead

SIGNATURE


8. AFS ACTIONS:

☐ APPROVED ☐ DISAPPROVED ☐ NOT REQUIRED

COMMENTS:

DATE	ROUTING SYMBOL	SIGNATURE
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FORT LAUDERDALE/HOLLYWOOD INTL (FLL)
FORT LAUDERDALE, FLORIDA

FORT LAUDERDALE, FLORIDA

(NARRATIVE ON FOLLOWING PAGE)

FORT LAUDERDALE, FLORIDA

FORT LAUDERDALE/HOLLYWOOD INTL (FLL)

AARPS ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION
SEE ADDITIONAL REQUIREMENTS ON AAUP

TAKEOFF RUNWAY 10L: Climb on heading 096° to intercept course 075° to LLBOW, then on track 026° to ROOOM, then on track 347° to YOLOO, then on track 316° to cross AGERS between 8000 and FL190. Thence. . .

TAKEOFF RUNWAY 10R: Climb on heading 096° to intercept course 065° to LLBOW, then on track 026° to ROOOM, then on track 347° to YOLOO, then on track 316° to cross AGERS between 8000 and FL190. Thence. . .

TAKEOFF RUNWAY 28L: Climb on heading 276° to intercept course 300° to DREDS, then on track 322° to SHELZ, then on track 007° to cross AGERS between 8000 and FL190. Thence. . .

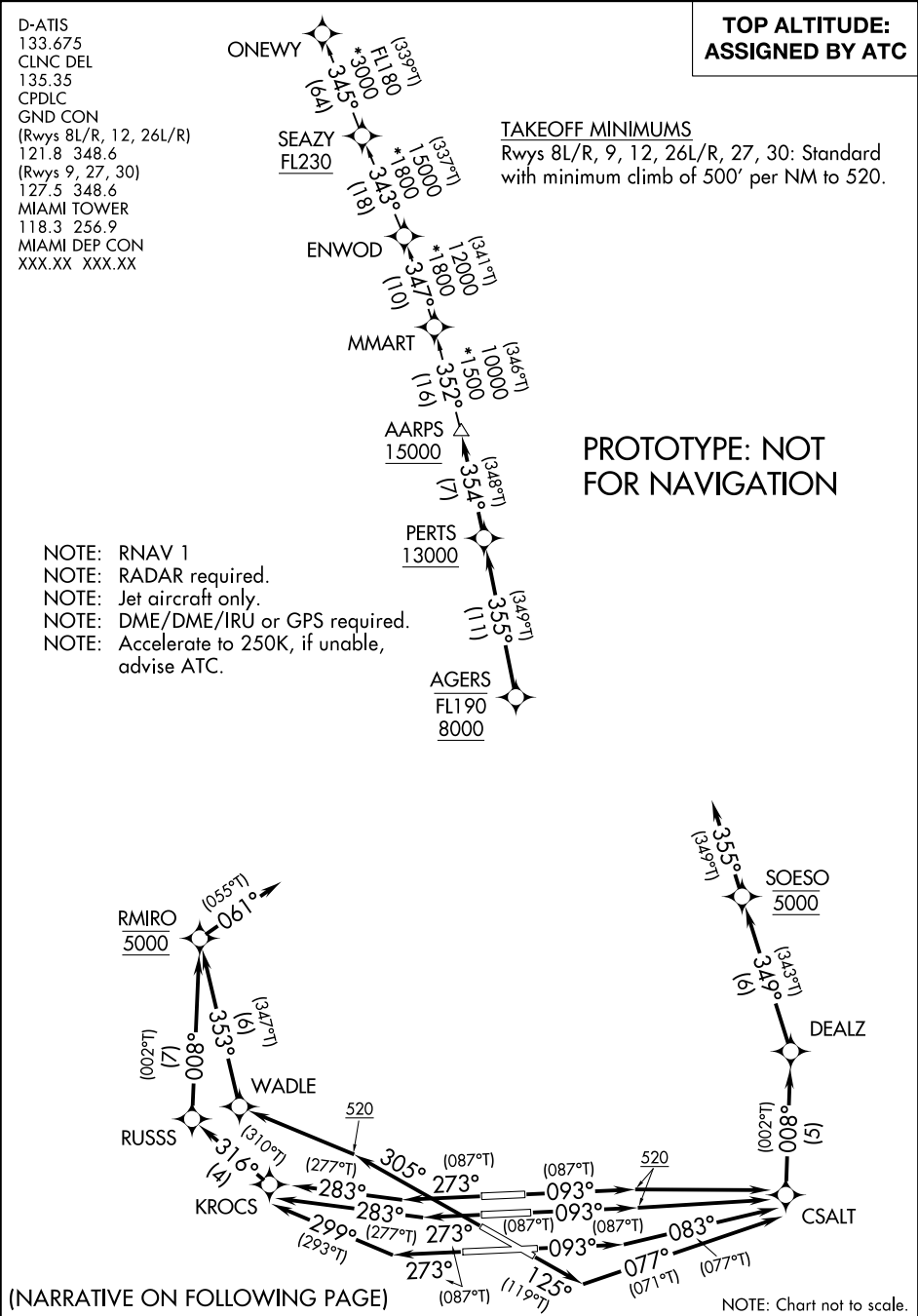
TAKEOFF RUNWAY 28R: Climb on heading 276° to intercept course 287° to DREDS, then on track 322° to SHELZ, then on track 007° to cross AGERS between 8000 and FL190. Thence. . .

. . .on track 355° to cross PERTS at or above 13000, then on track 354° to cross AARPS at or above 15000, then on transition, maintain FL230. Expect clearance to filed altitude within 10 minutes after departure.

ONEWY TRANSITION (AARPS1.ONEWY)

PROTOTYPE: NOT
FOR NAVIGATION

AARPS ONE DEPARTURE (RNAV)



AARPS ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION
SEE ADDITIONAL REQUIREMENTS ON AAUP

TAKEOFF RUNWAYS 8L/R: Climb on heading 093° to 520, then direct CSALT, then on track 008° to DEALZ, then on track 349° to cross SOESO at 5000, then on track 355° for vectors to cross AGERS between 8000 and FL190. Thence. . .

TAKEOFF RUNWAY 9: Climb on heading 093° to intercept course 083° to CSALT, then on track 008° to DEALZ, then on track 349° to cross SOESO at 5000, then on track 355° for vectors to cross AGERS between 8000 and FL190. Thence. . .

TAKEOFF RUNWAY 12: Climb on heading 125° to intercept course 077° to CSALT, then on track 008° to DEALZ, then on track 349° to cross SOESO at 5000, then on track 355° for vectors to cross AGERS between 8000 and FL190. Thence. . .

TAKEOFF RUNWAYS 26L/R: Climb on heading 273° to intercept course 283° to KROCS, then on track 316° to RUSSS, then on track 008° to cross RMIRO at 5000, then on track 061° for vectors to cross AGERS between 8000 and FL190. Thence. . .

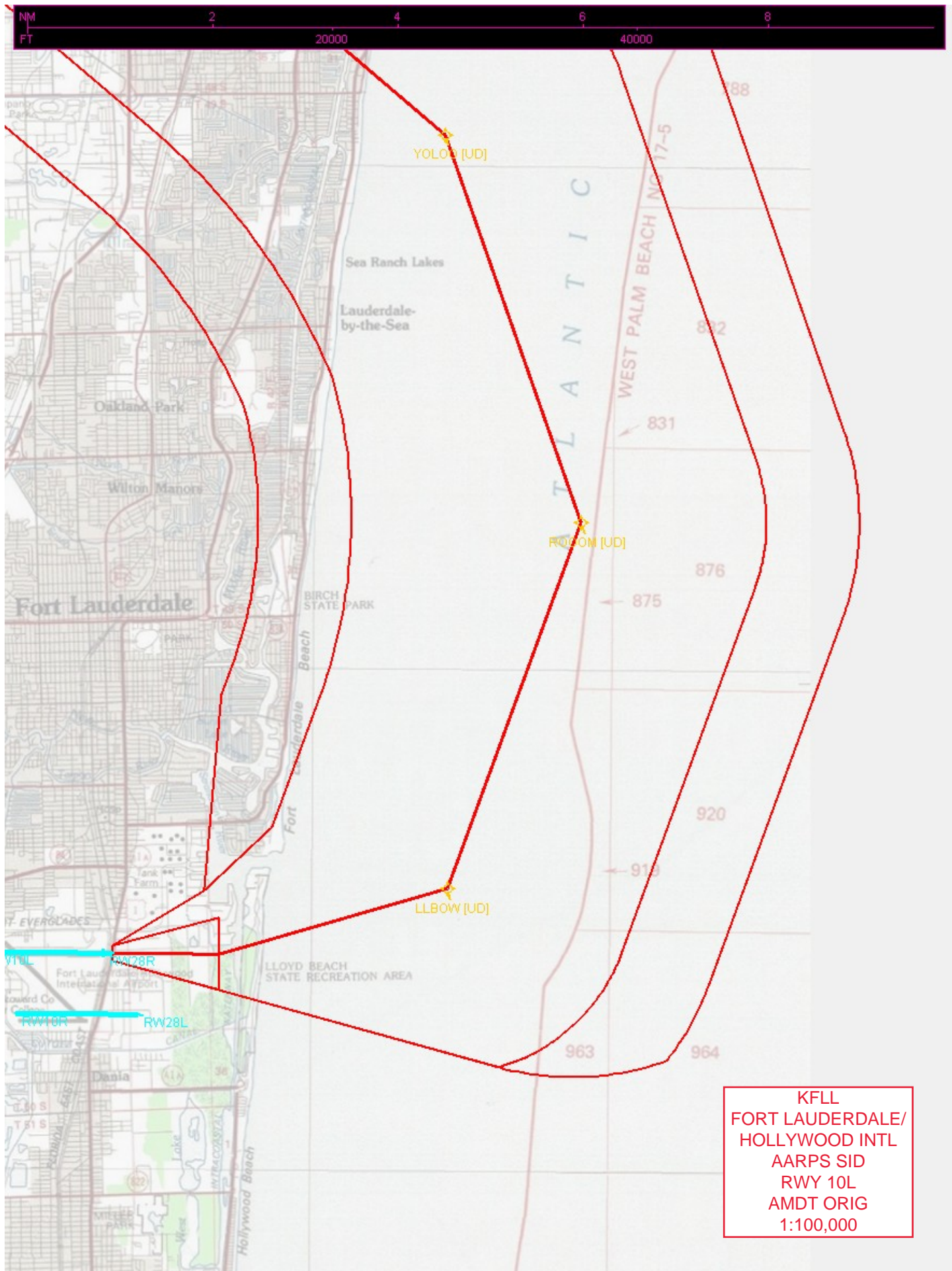
TAKEOFF RUNWAY 27: Climb on heading 273° to intercept course 299° to KROCS, then on track 316° to RUSSS, then on track 008° to cross RMIRO at 5000, then on track 061° for vectors to cross AGERS between 8000 and FL190. Thence. . .

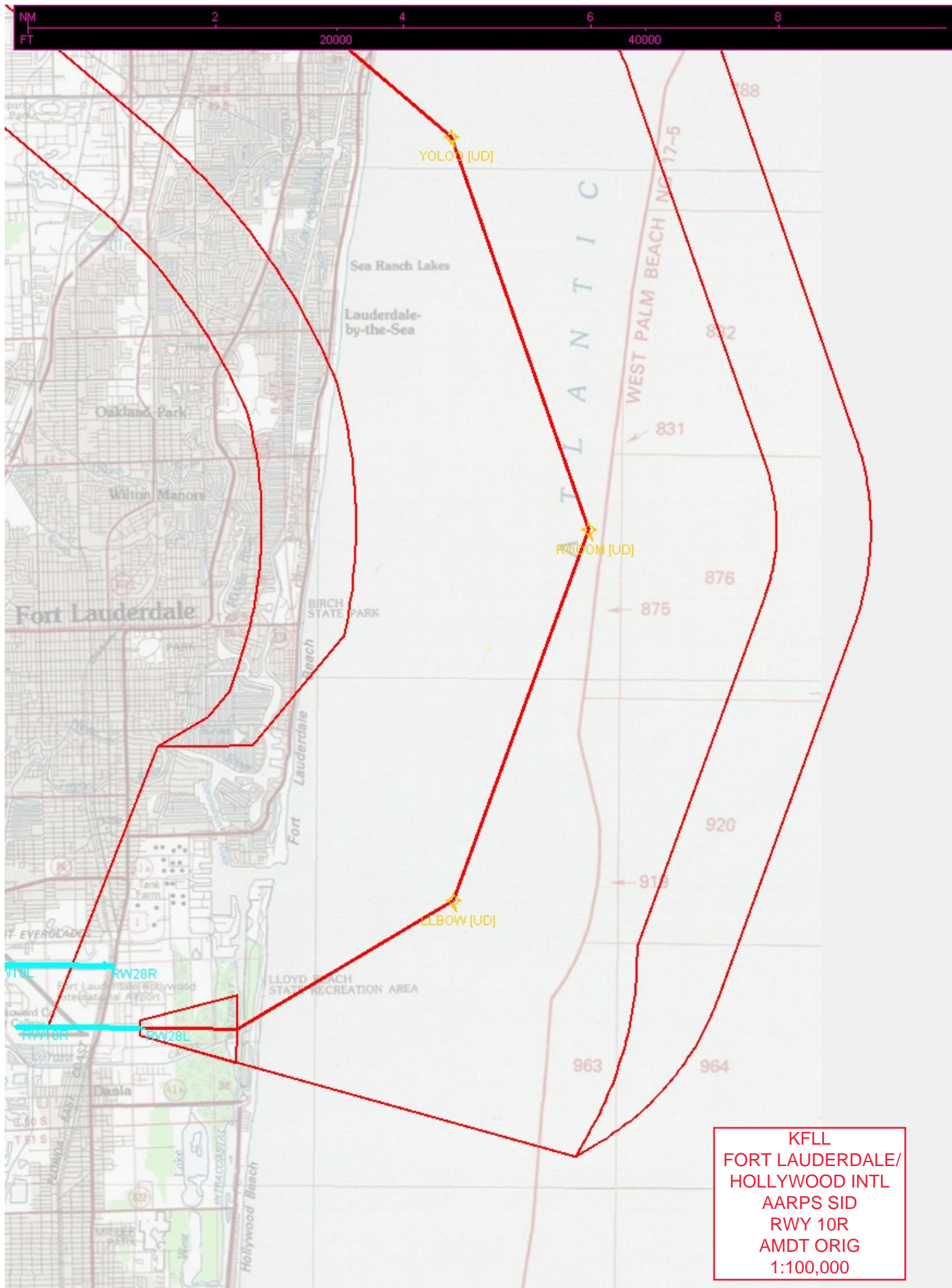
TAKEOFF RUNWAY 30: Climb on heading 305° to 520, then direct WADLE, then on track 353° to cross RMIRO at 5000, then on track 061° for vectors to cross AGERS between 8000 and FL190. Thence. . .

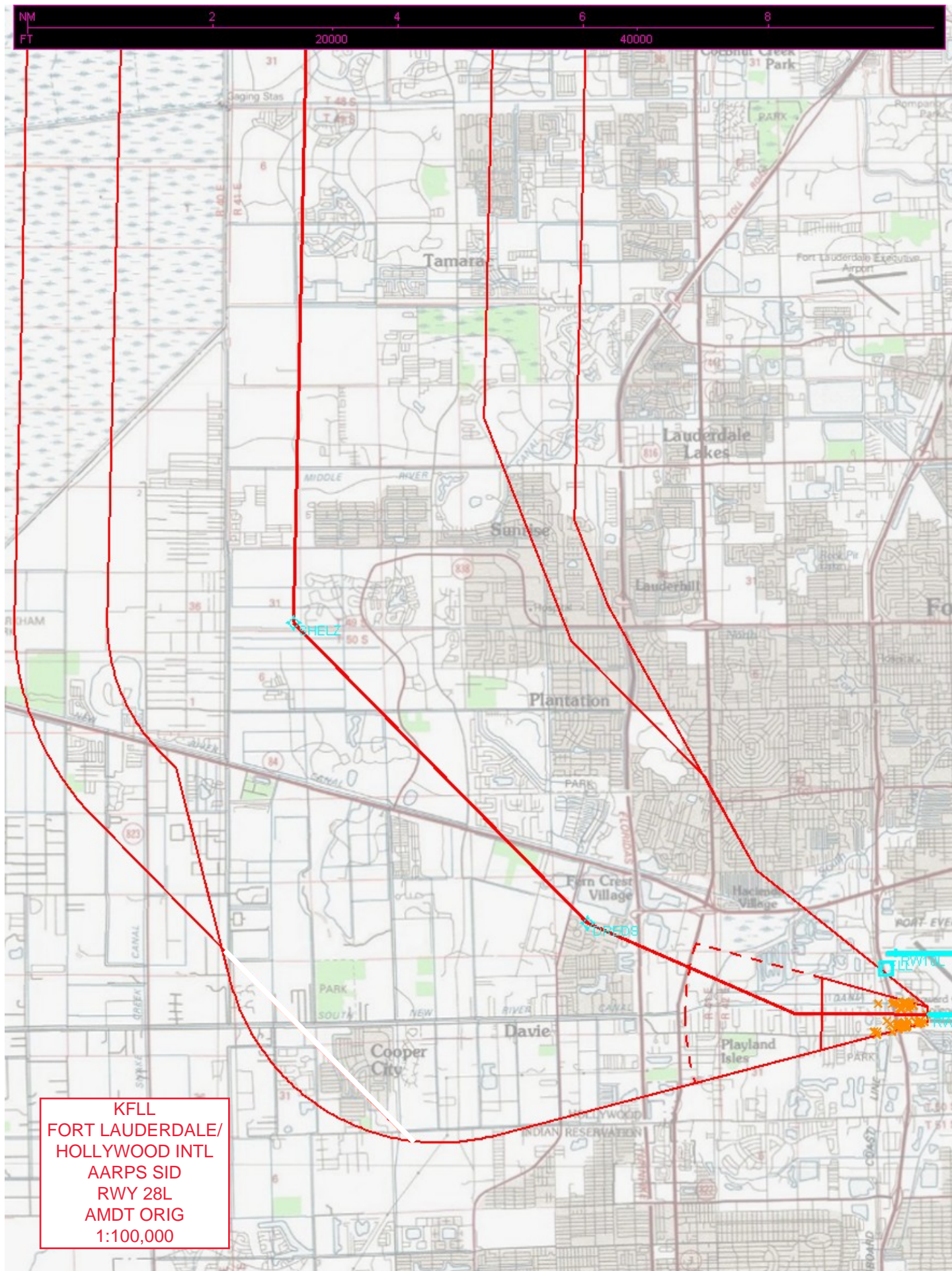
. . .on track 355° to cross PERTS at or above 13000, then on track 354° to cross AARPS at or above 15000. Then on transition. Maintain ATC assigned altitude, expect clearance to filed altitude within 10 minutes after departure.

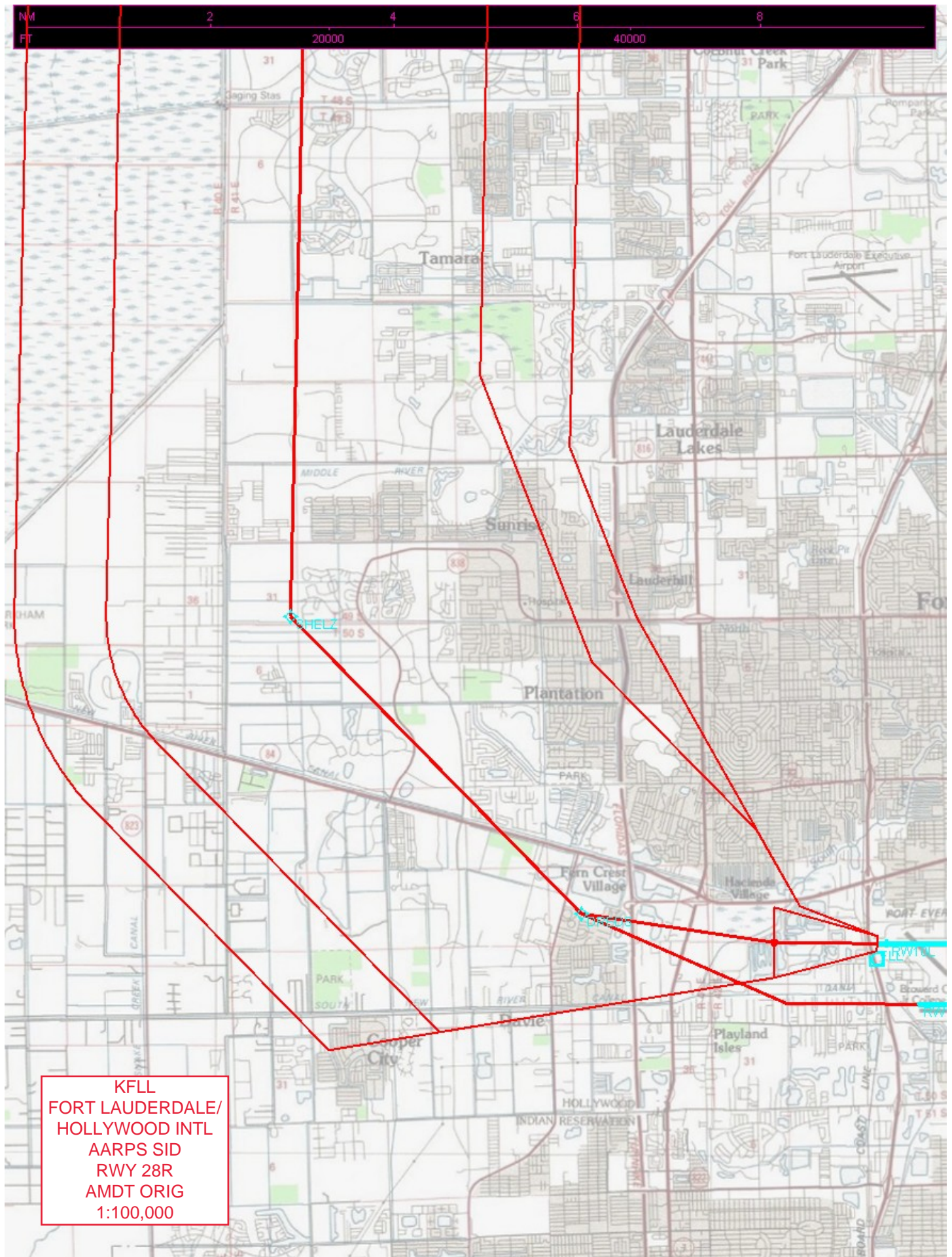
ONEWY TRANSITION (AARPS1.ONEWY)

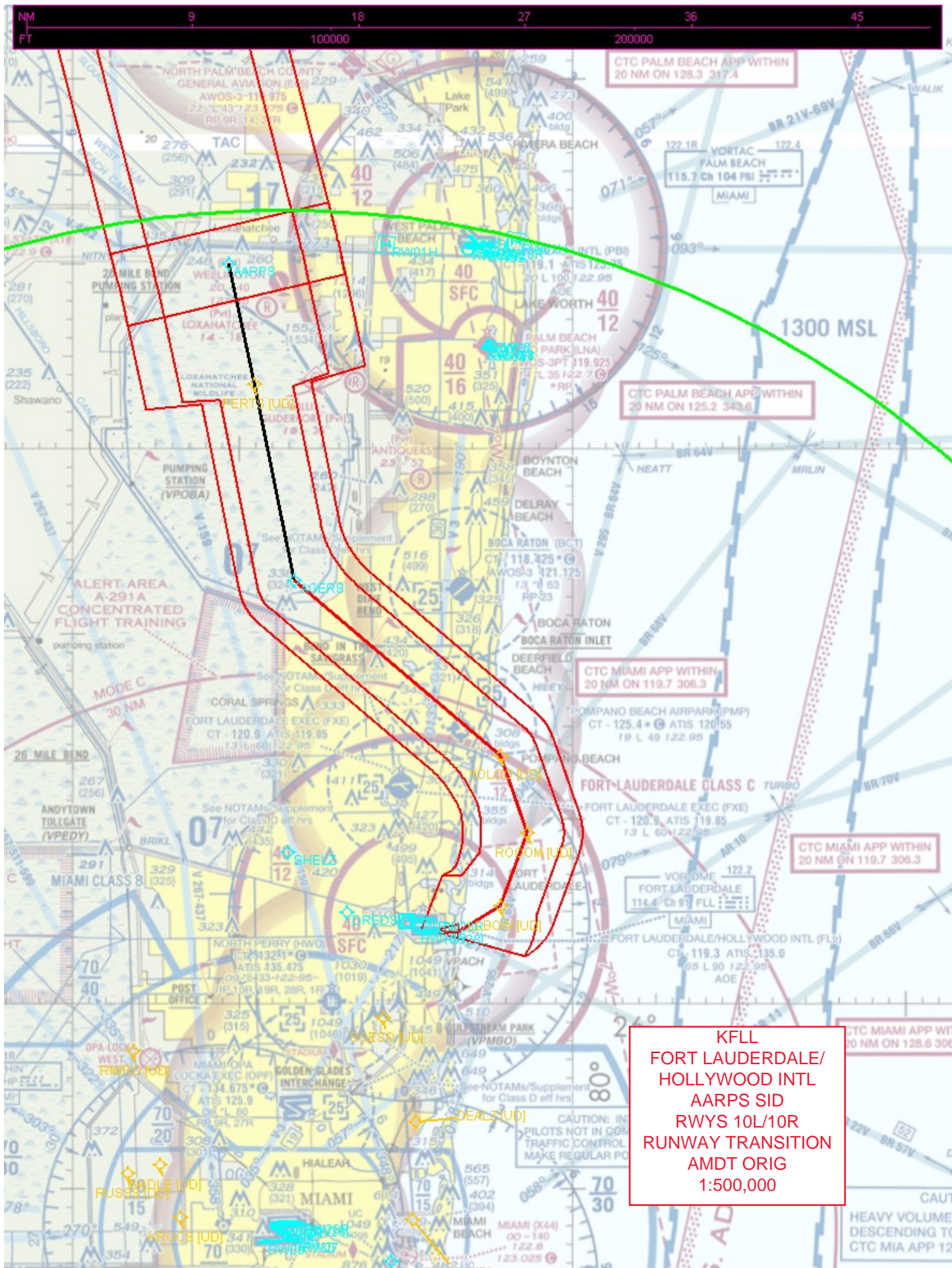
PROTOTYPE: NOT
FOR NAVIGATION

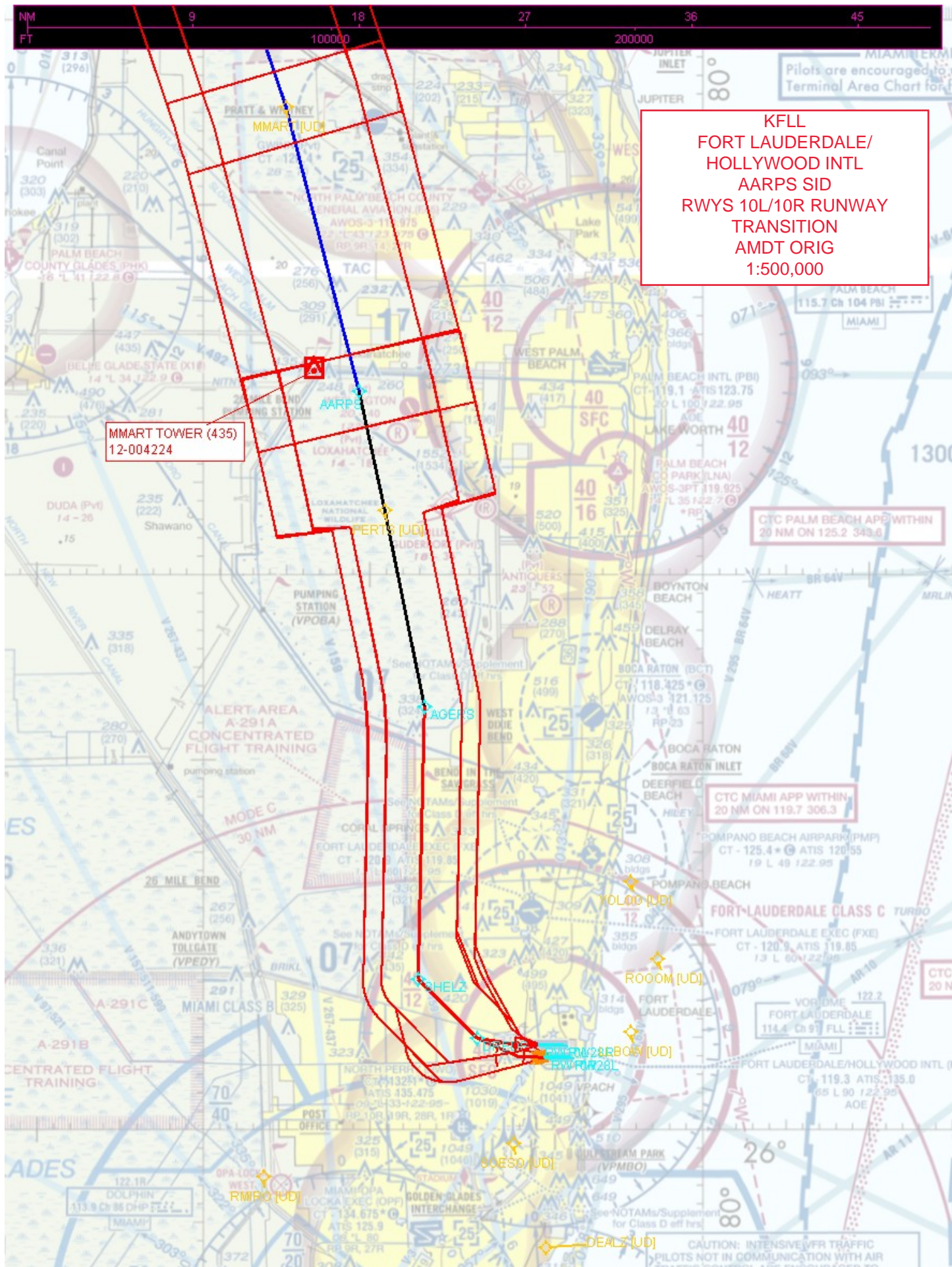












KFL
FORT LAUDERDALE/
HOLLYWOOD INTL
AARPS SID
RWYS 10L/10R RUNWAY
TRANSITION
AMDT ORIG
1:500,000

MMART TOWER (435)
12-004224

CTC PALM BEACH APP WITHIN
20 NM ON 125.2 343.6

CTC MIAMI APP WITHIN
20 NM ON 119.7 306.3

CTC MIAMI APP WITHIN
20 NM ON 119.7 306.3

CTC MIAMI APP WITHIN
20 NM ON 119.7 306.3

CTC MIAMI APP WITHIN
20 NM ON 119.7 306.3

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20 NM ON 119.7 306.3

CTC MIAMI APP WITHIN
20 NM ON 119.7 306.3

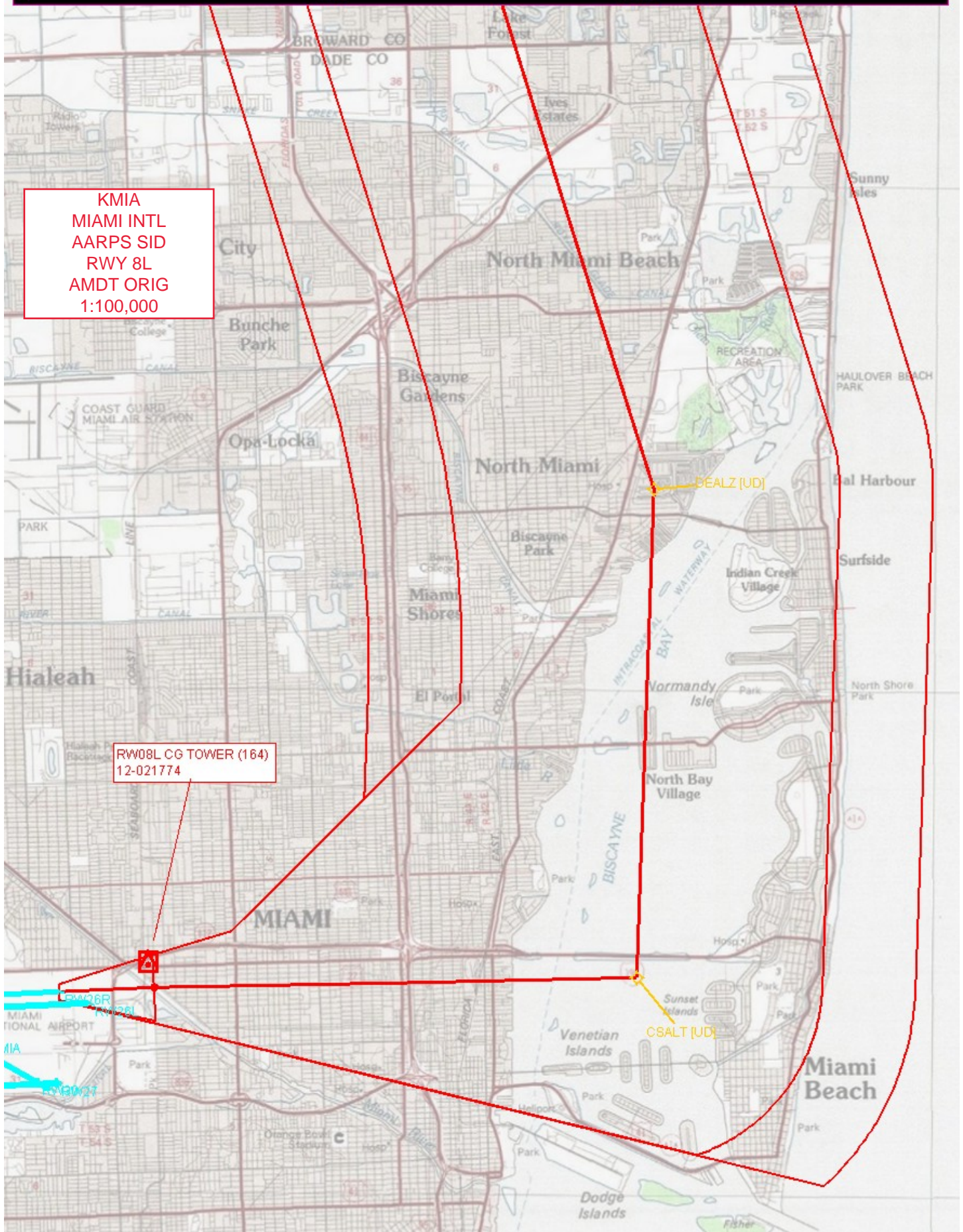
CTC MIAMI APP WITHIN
20 NM ON 119.7 306.3

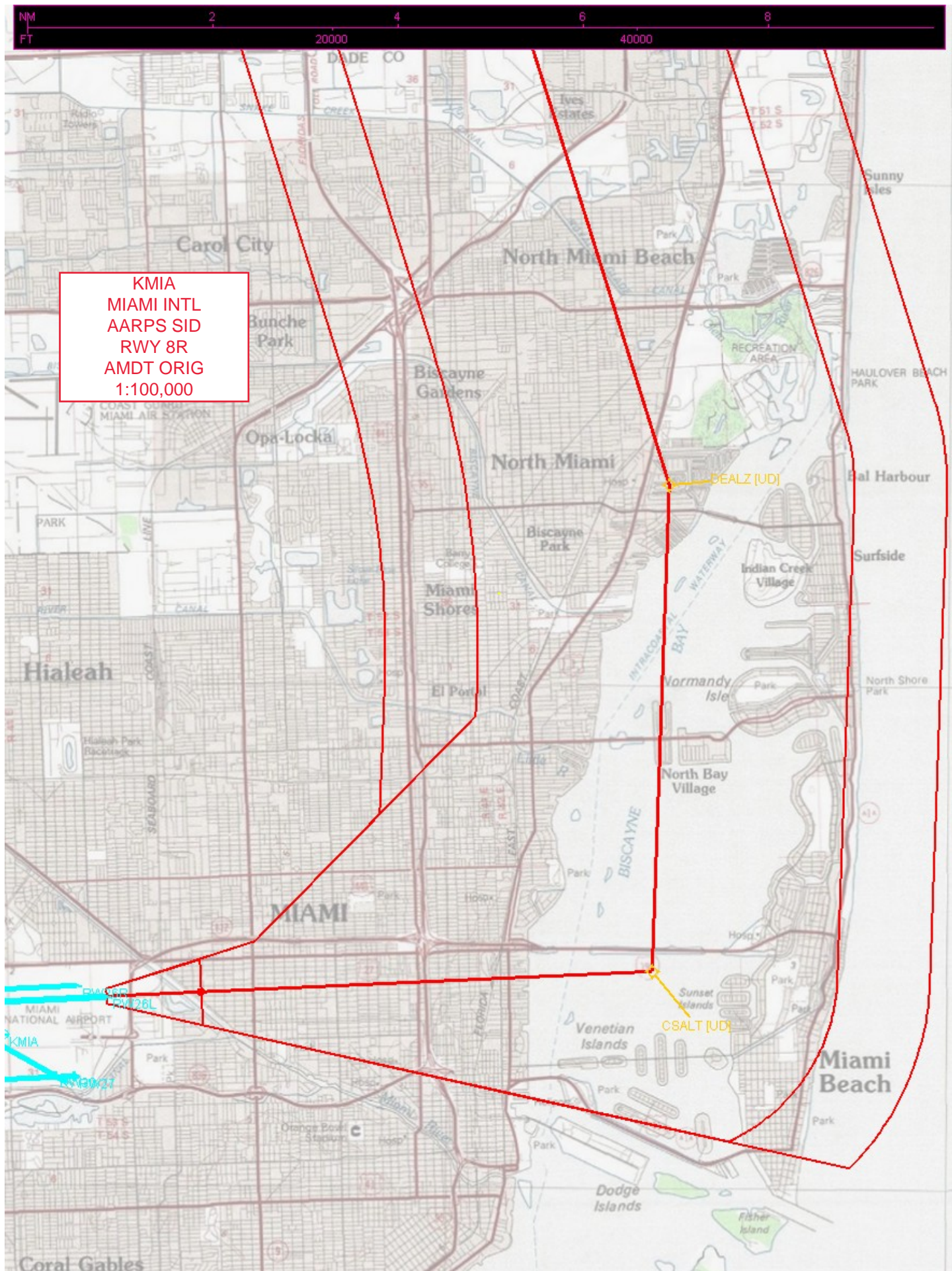
KMIA
MIAMI INTL
AARPS SID
RWY 8L
AMDT ORIG
1:100,000

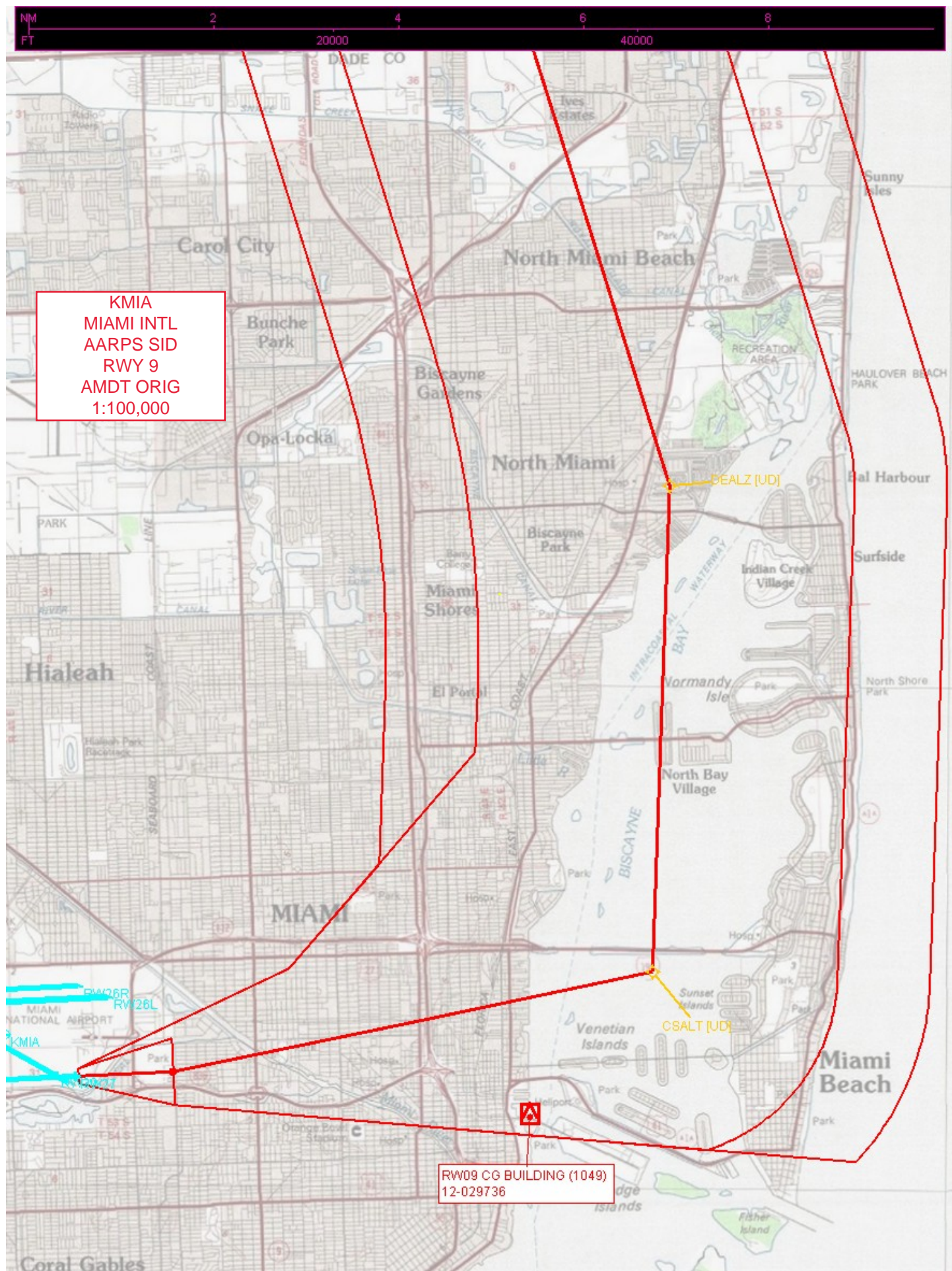
RW08L CG TOWER (164)
12-021774

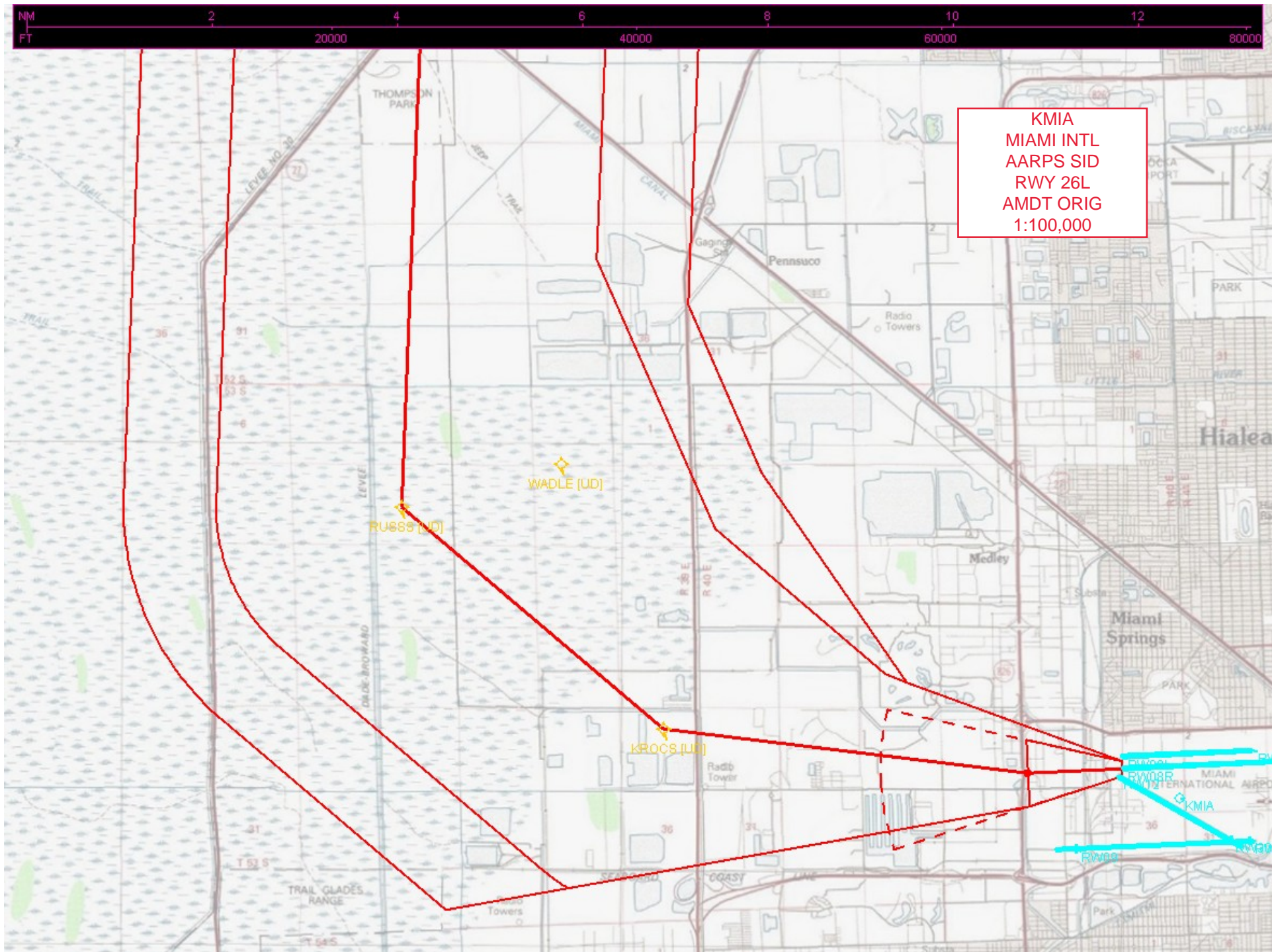
DEALZ (UD)

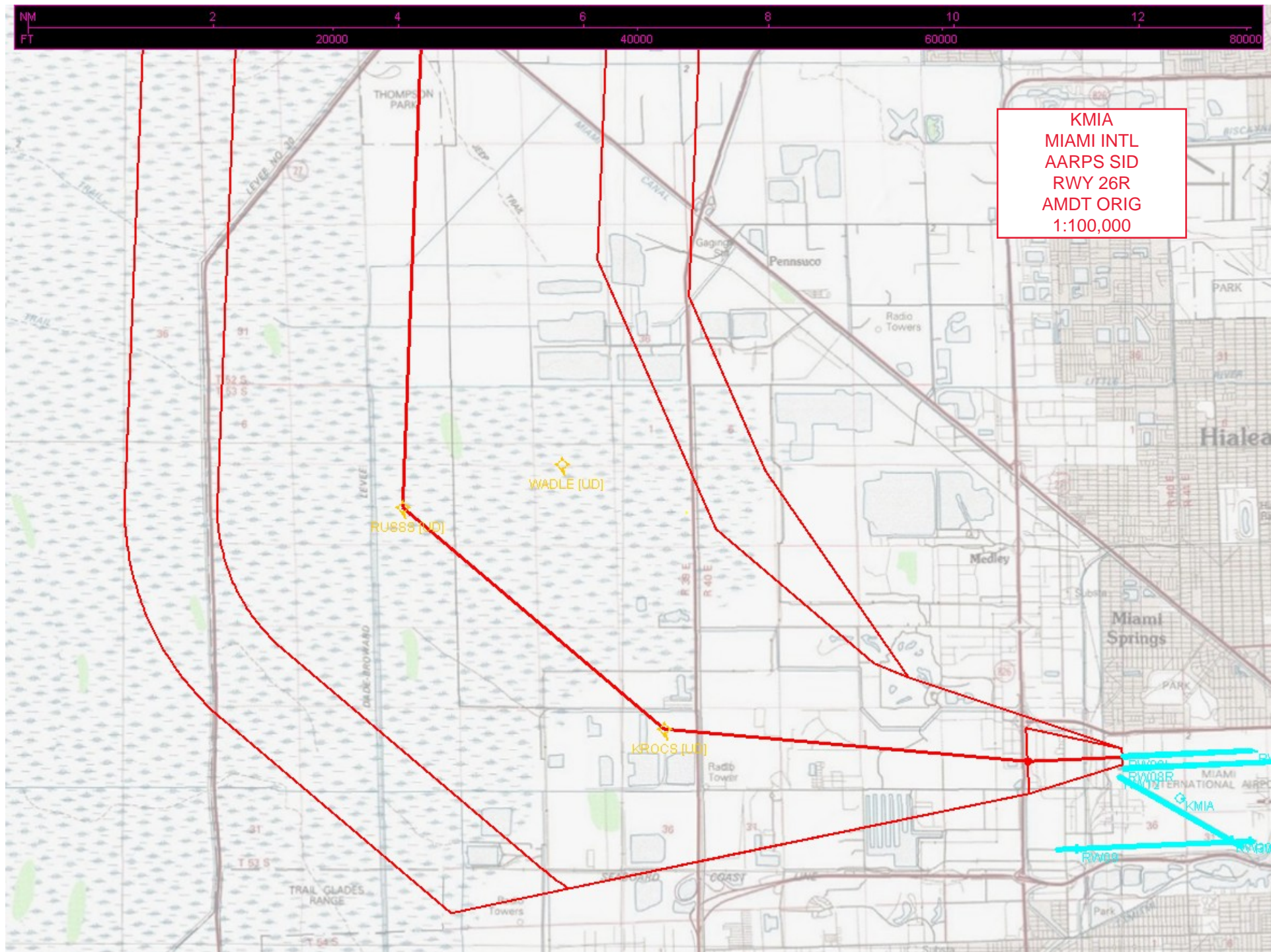
CSALT (UD)

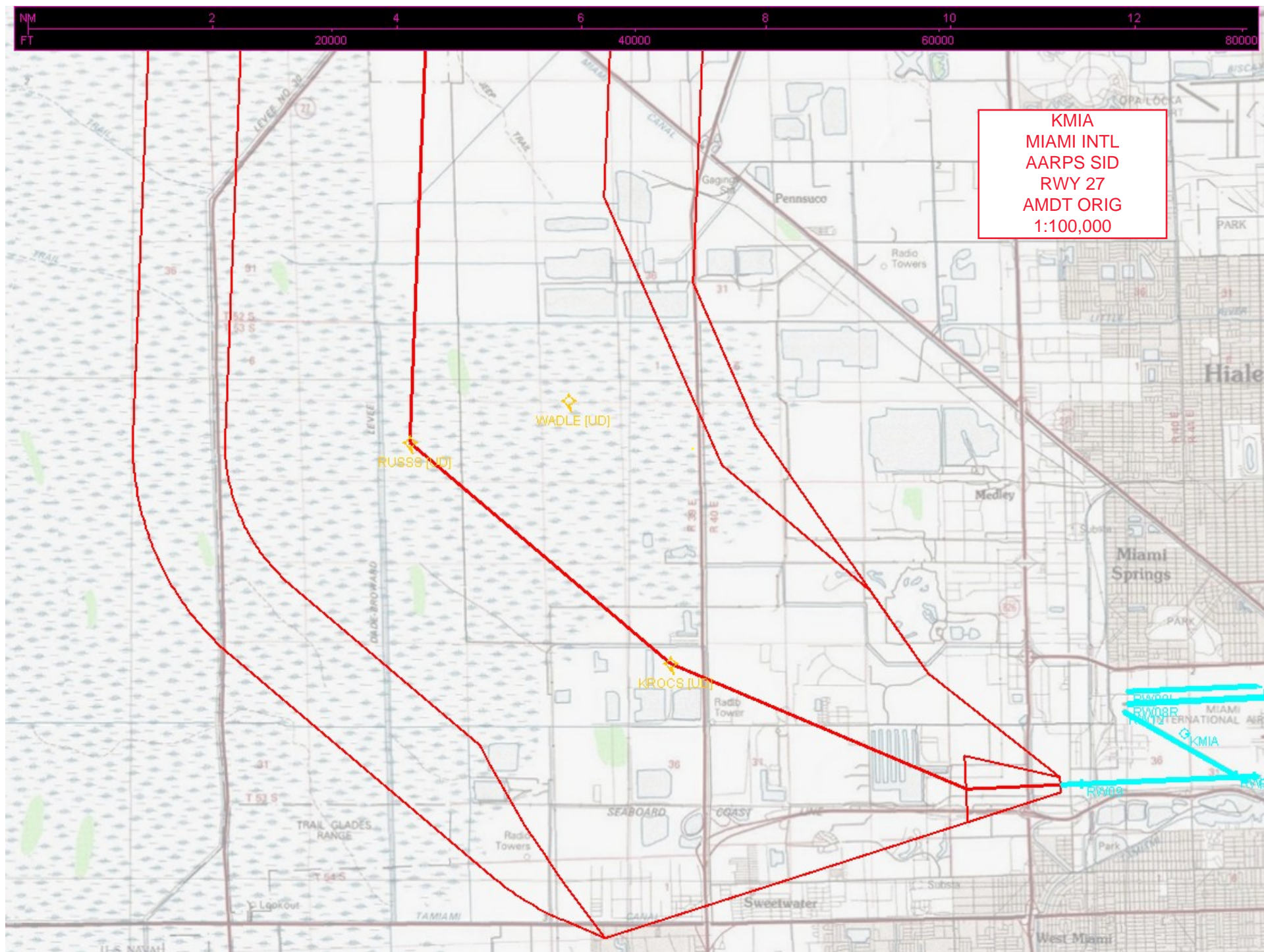


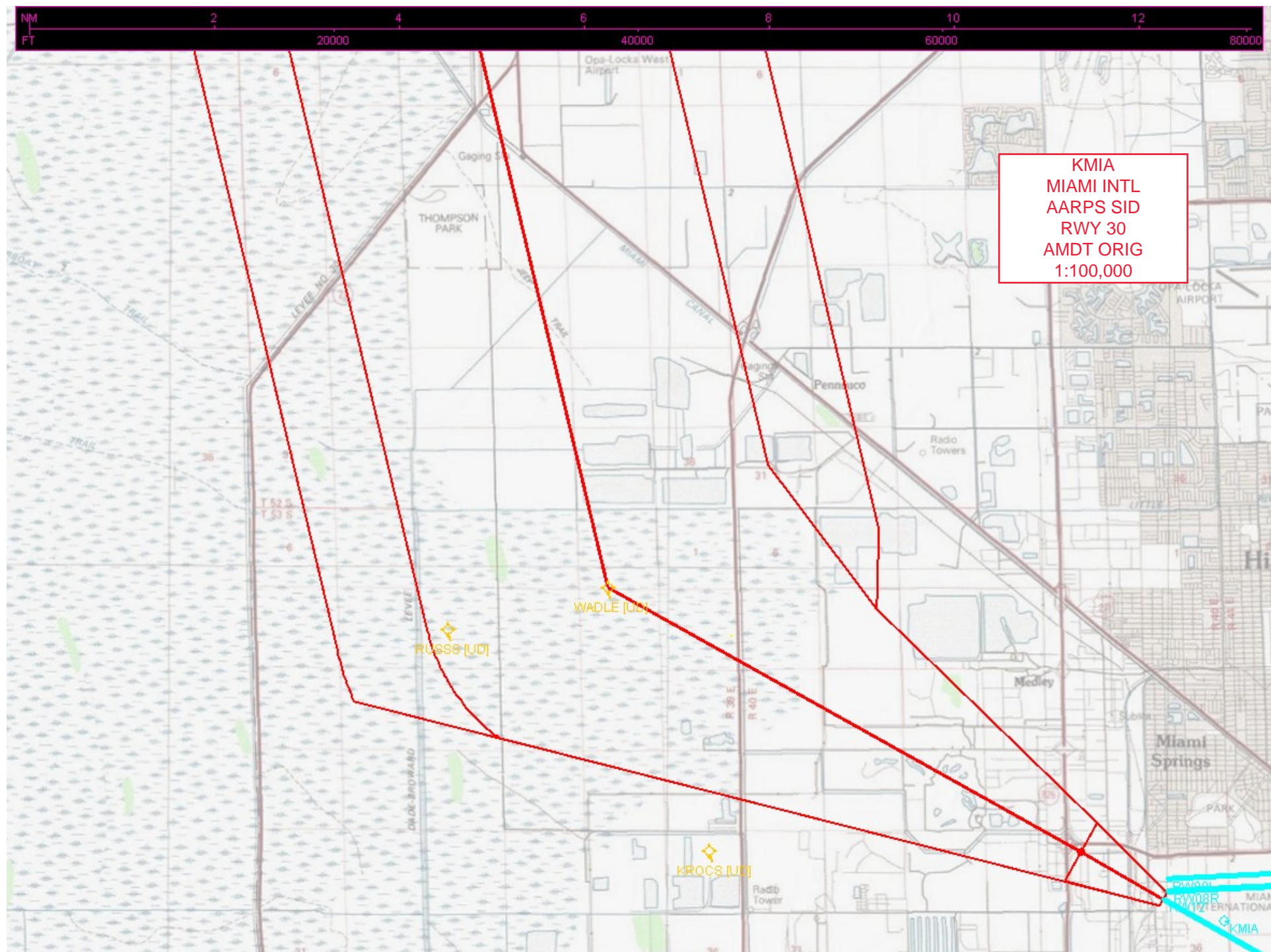


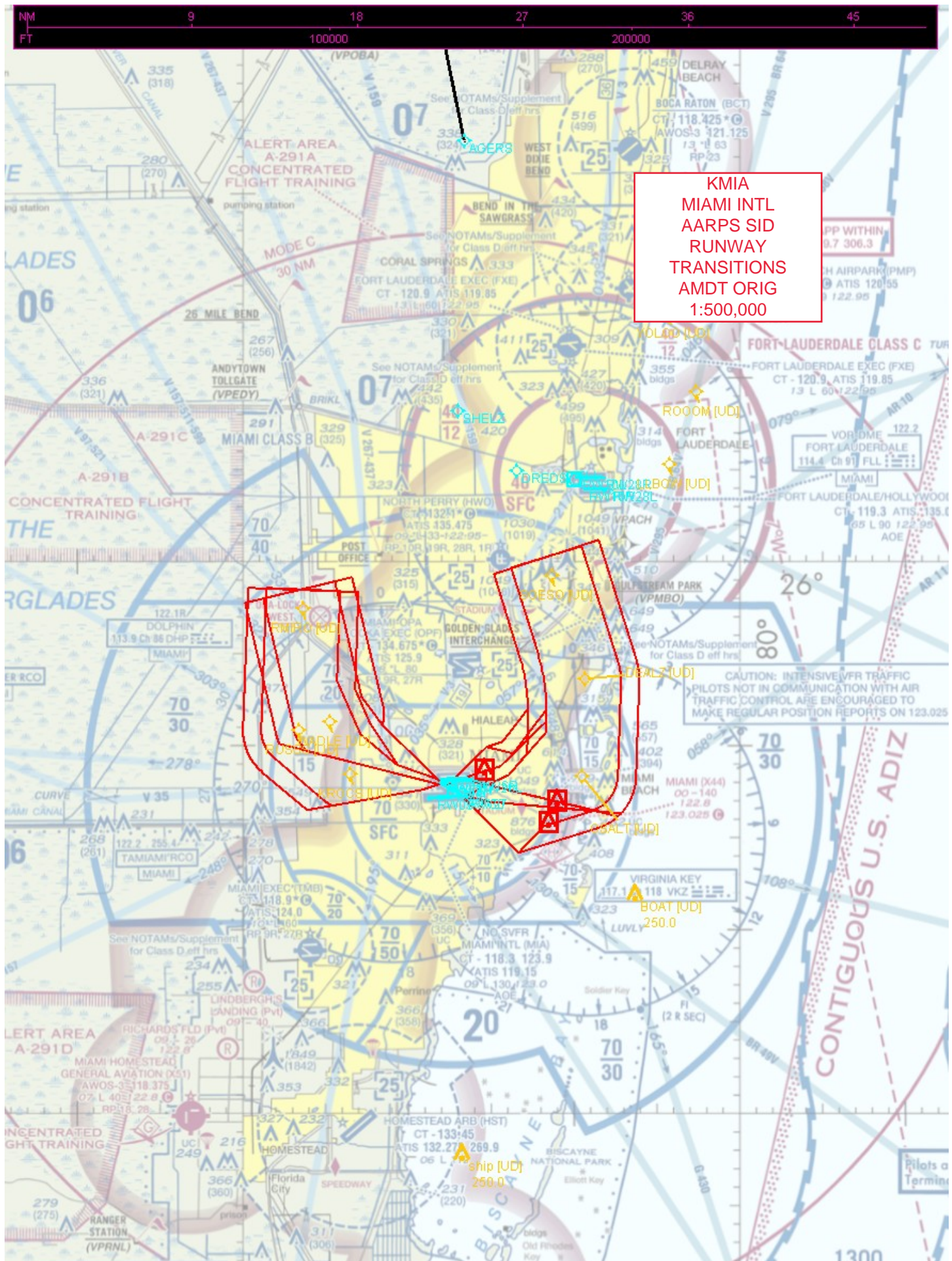


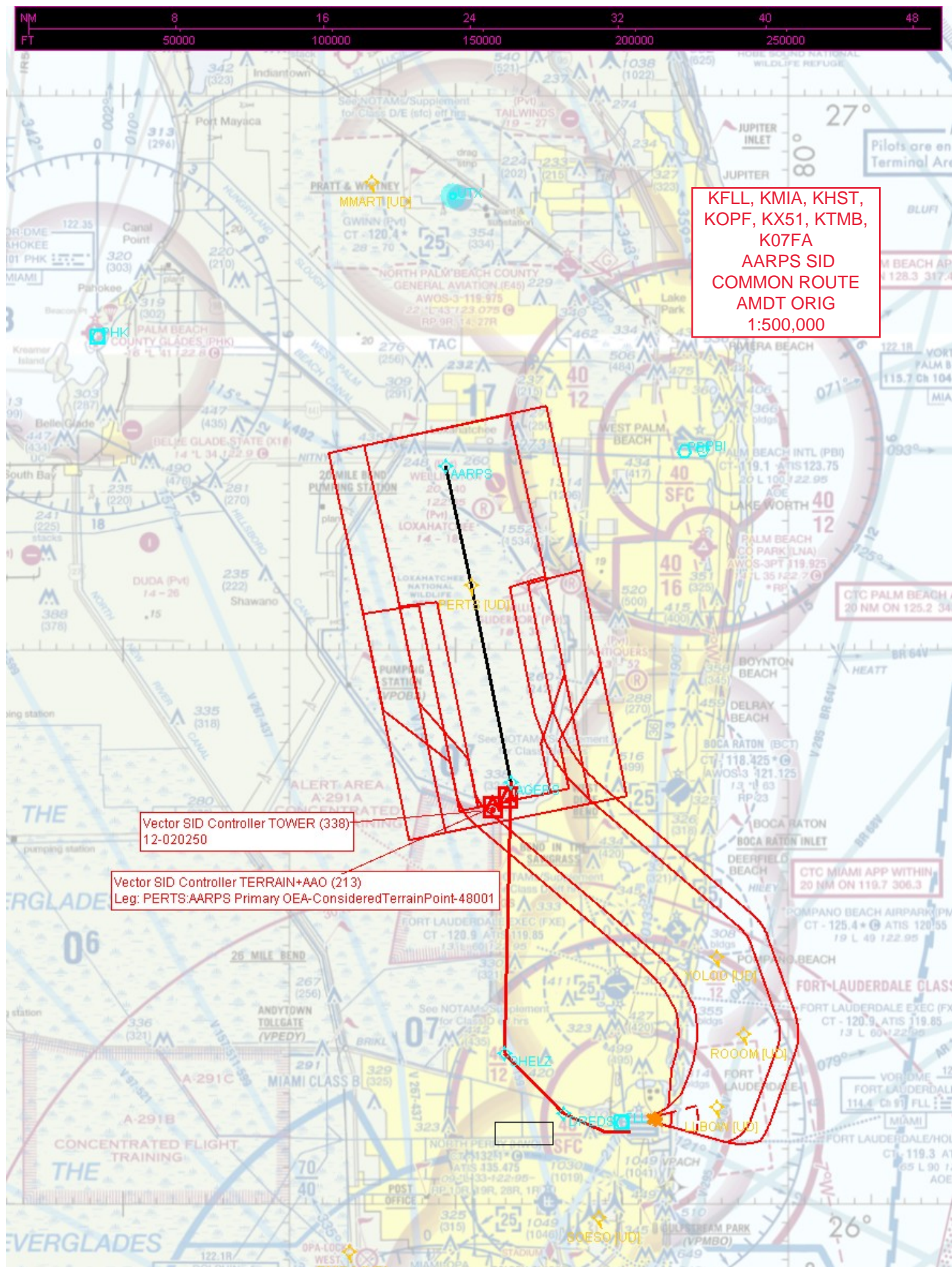


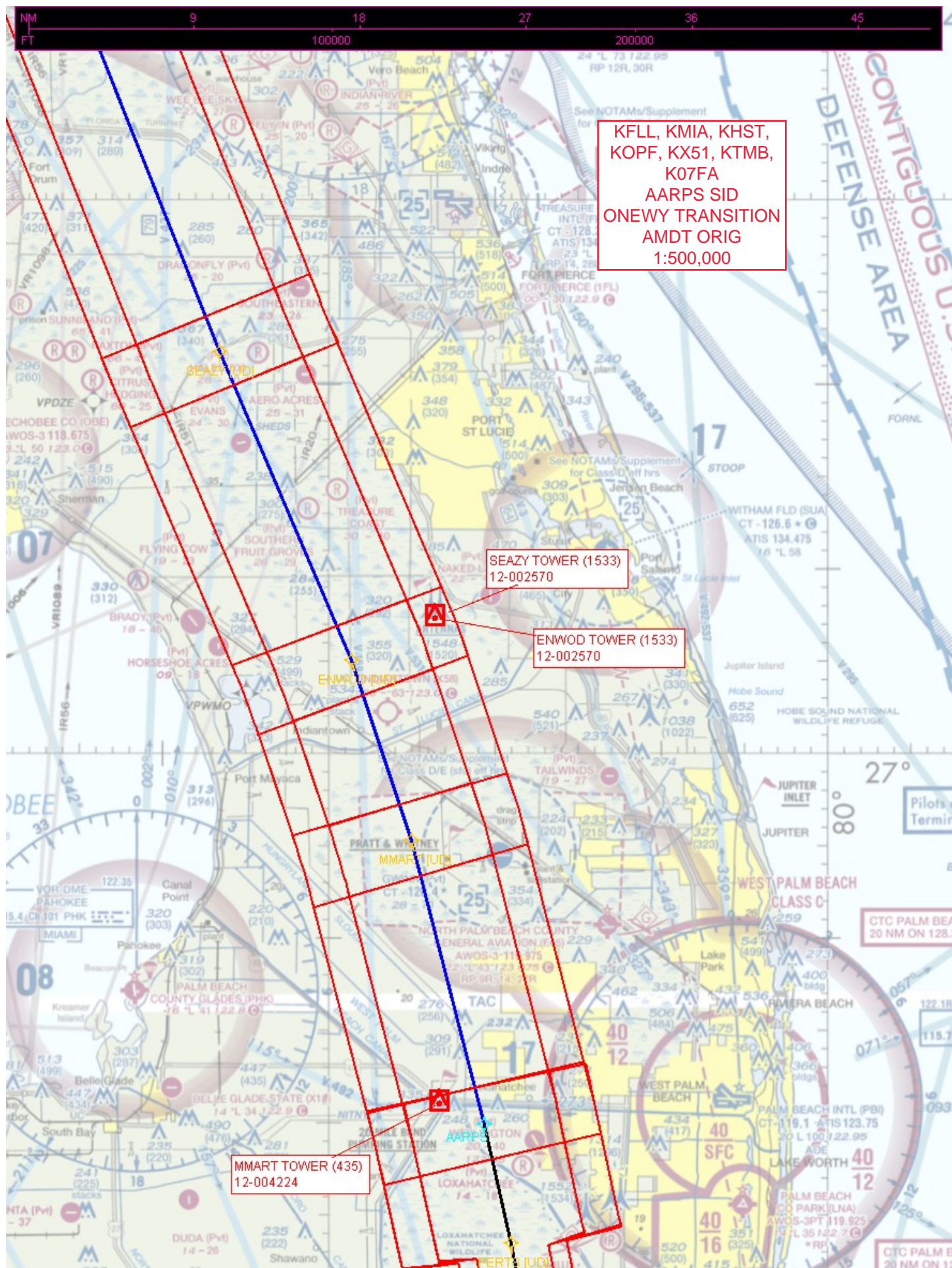


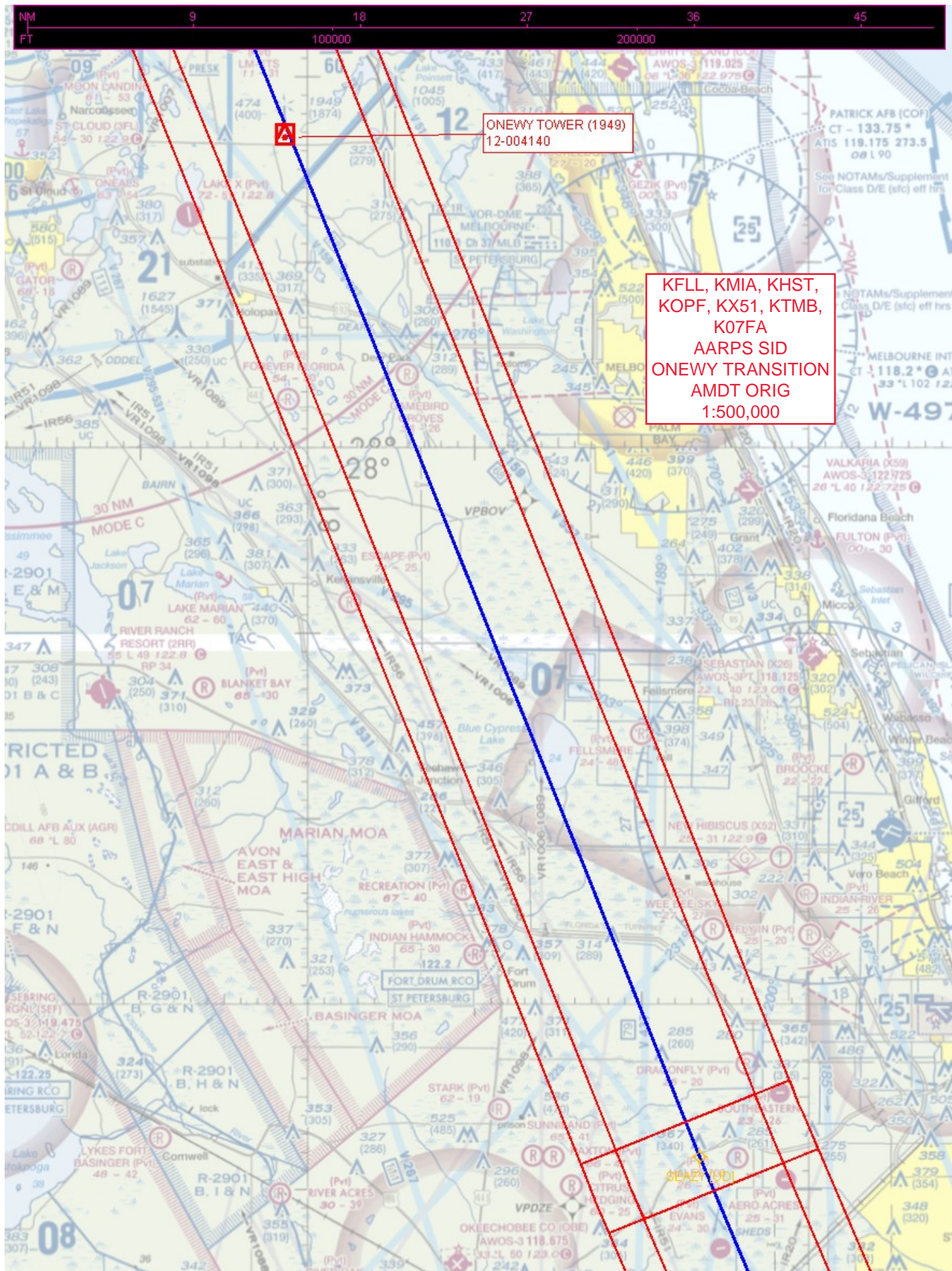


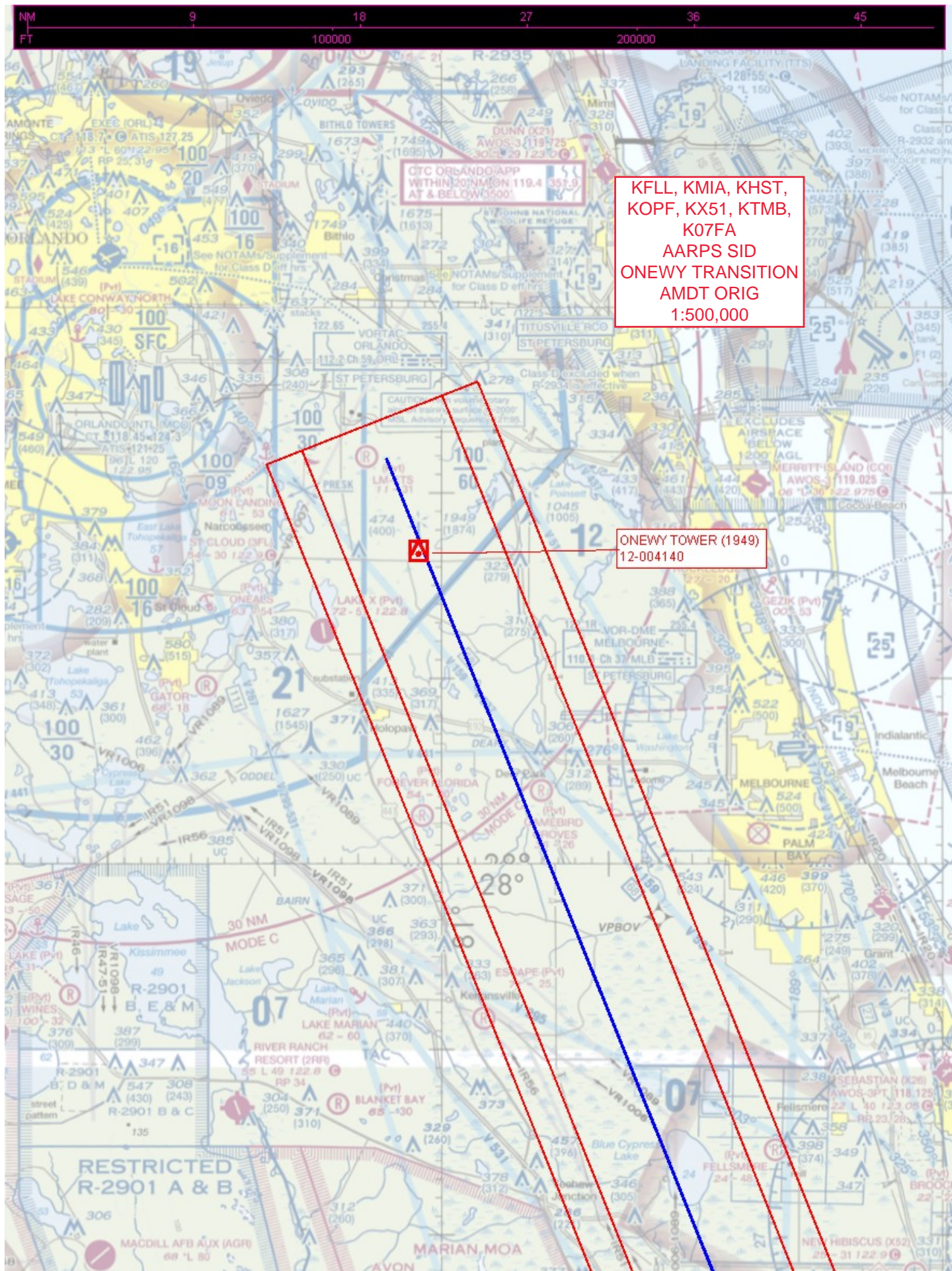








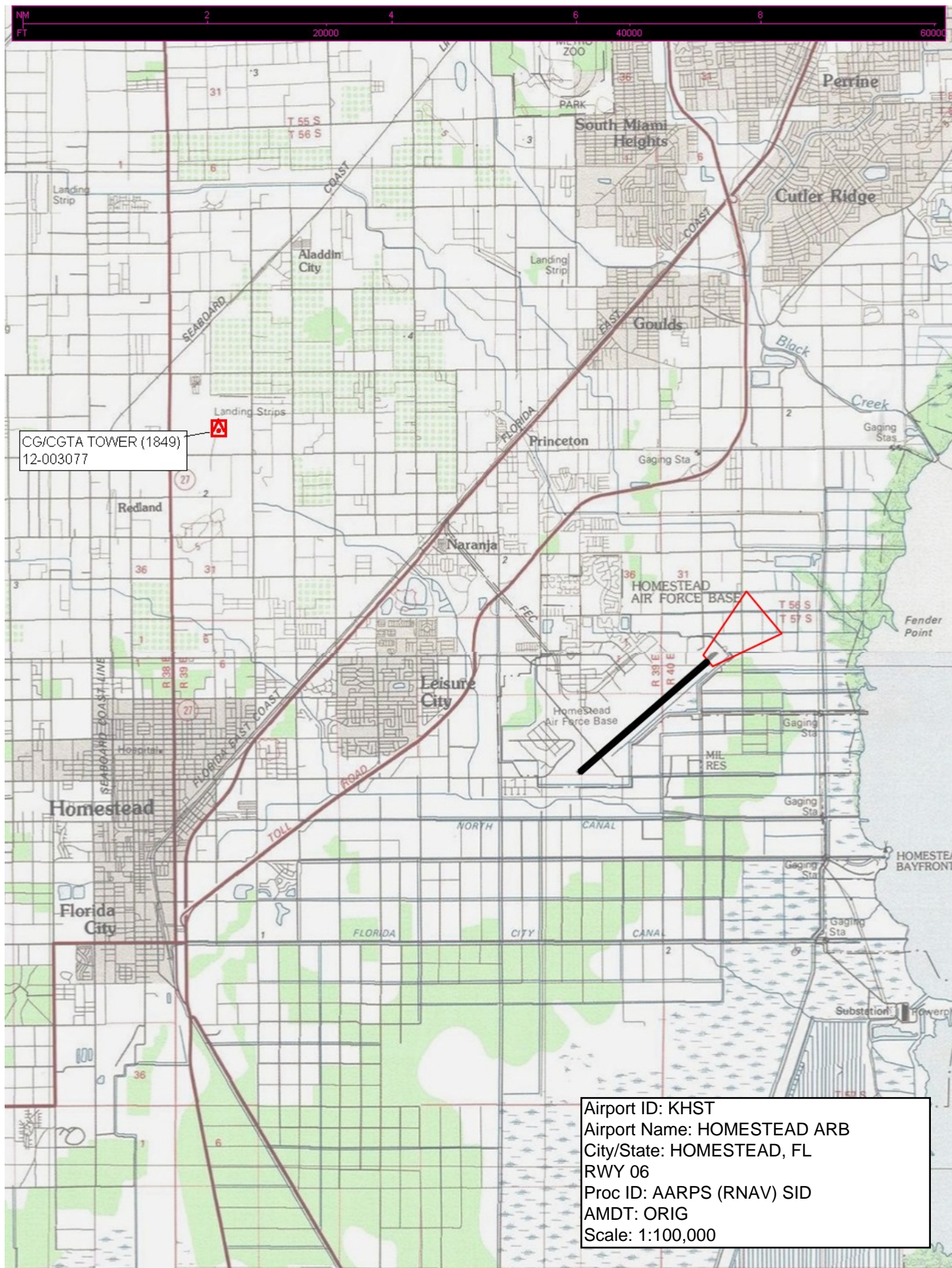




OTC ORLANDO APP
WITHIN 20 NM ON 119.4 351.9
AT & BELOW 3500'

KFL, KMIA, KHST,
KOPF, KX51, KTMB,
K07FA
AARPS SID
ONEWY TRANSITION
AMDT ORIG
1:500,000

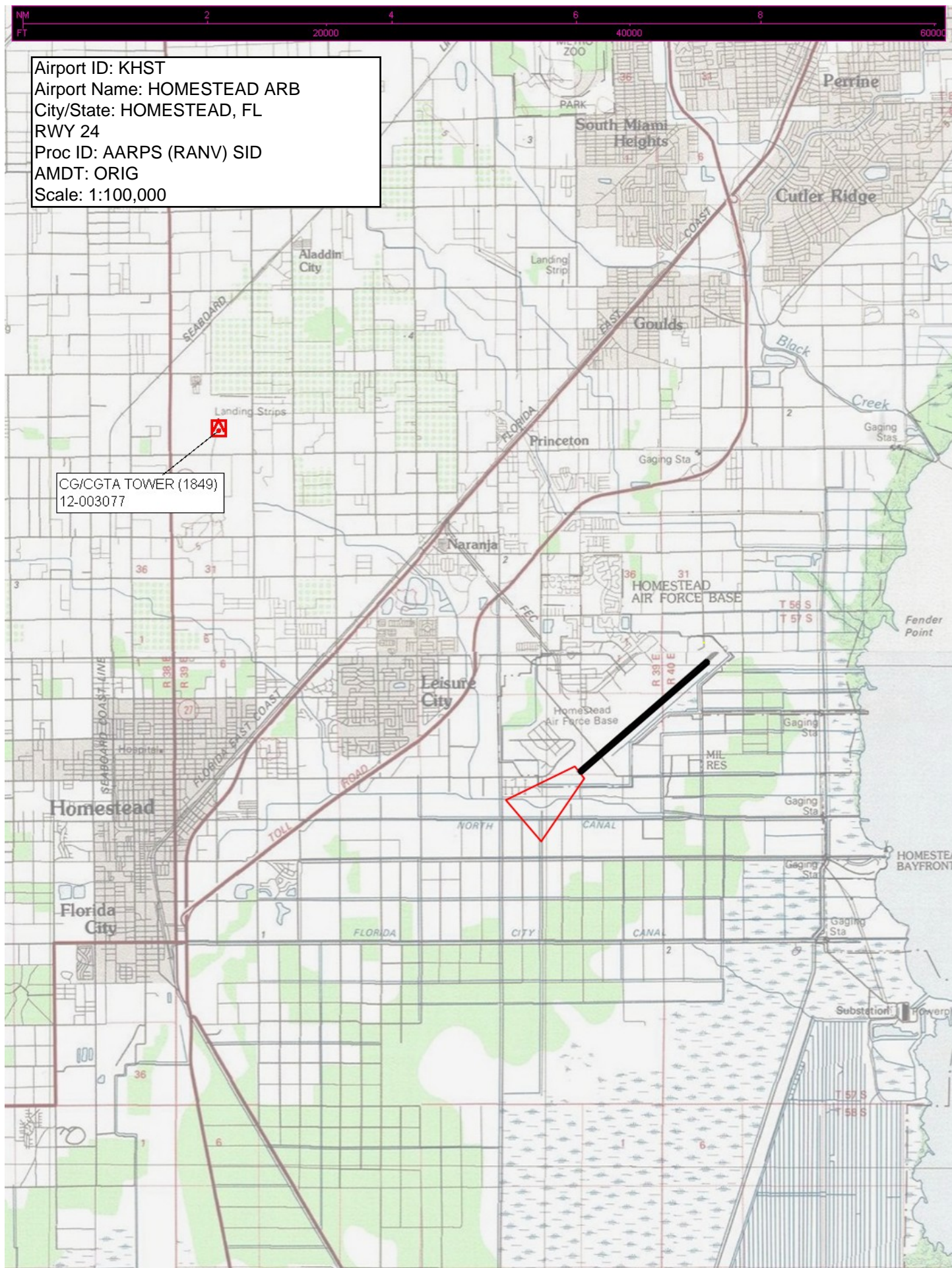
ONEWY TOWER (1949)
12-004140





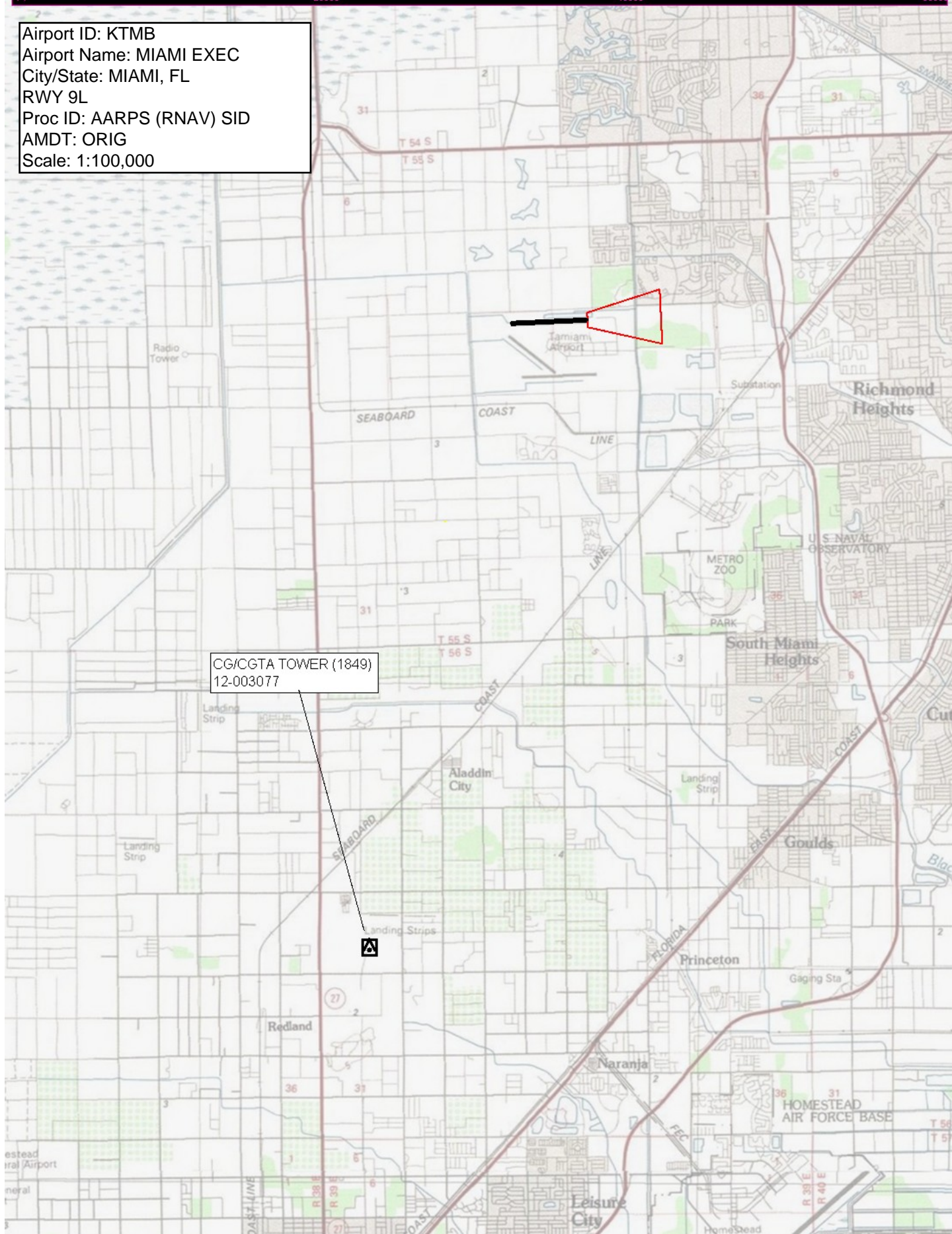
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Airport Name: HOMESTEAD ARB
City/State: HOMESTEAD, FL
RWY 24
Proc ID: AARPS (RANV) SID
AMDT: ORIG
Scale: 1:100,000

CG/CGTA TOWER (1849)
12-003077

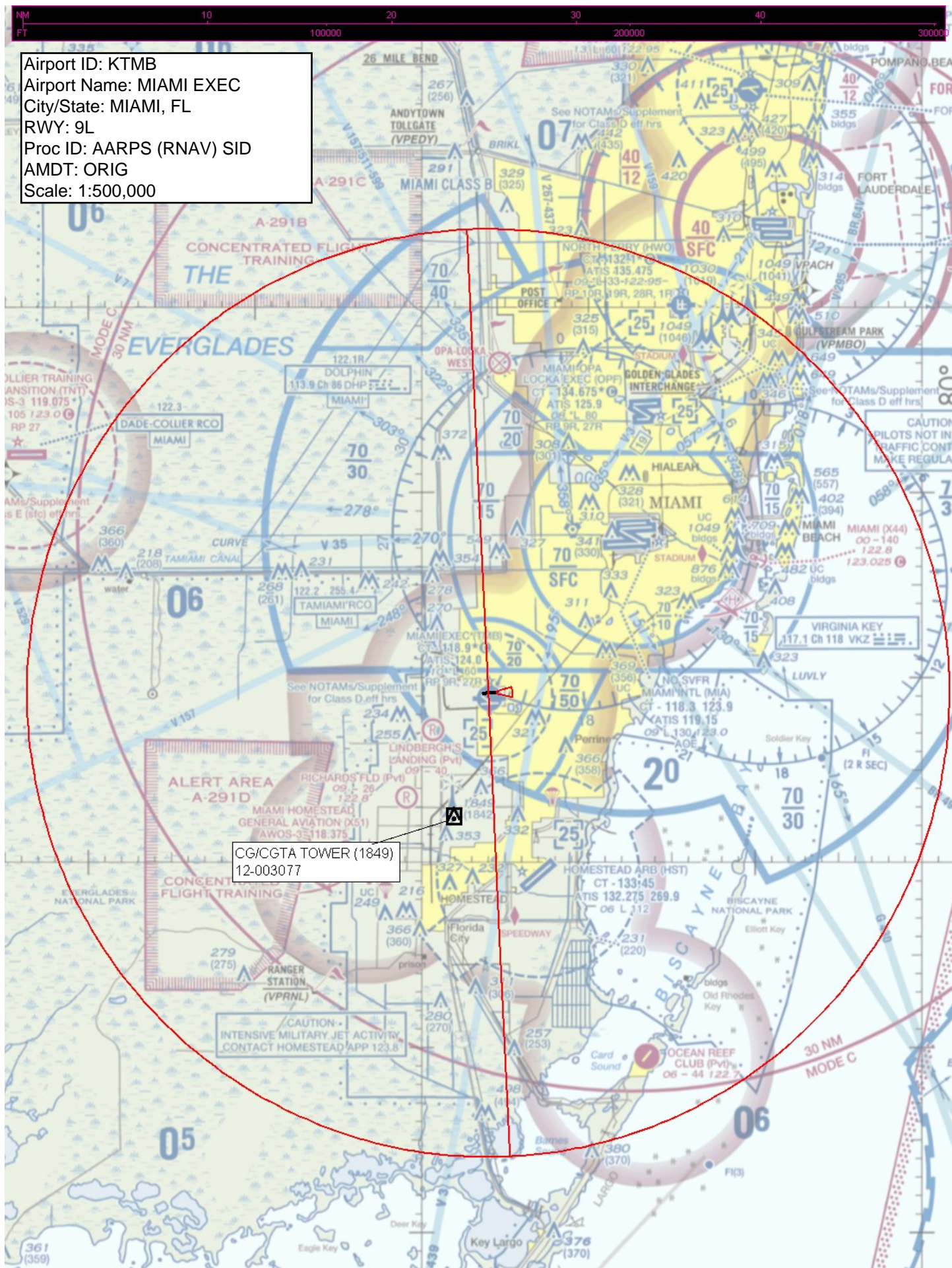


NM
FT 2 4 6 8 20000 40000 60000

Airport ID: KTMB
Airport Name: MIAMI EXEC
City/State: MIAMI, FL
RWY 9L
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000

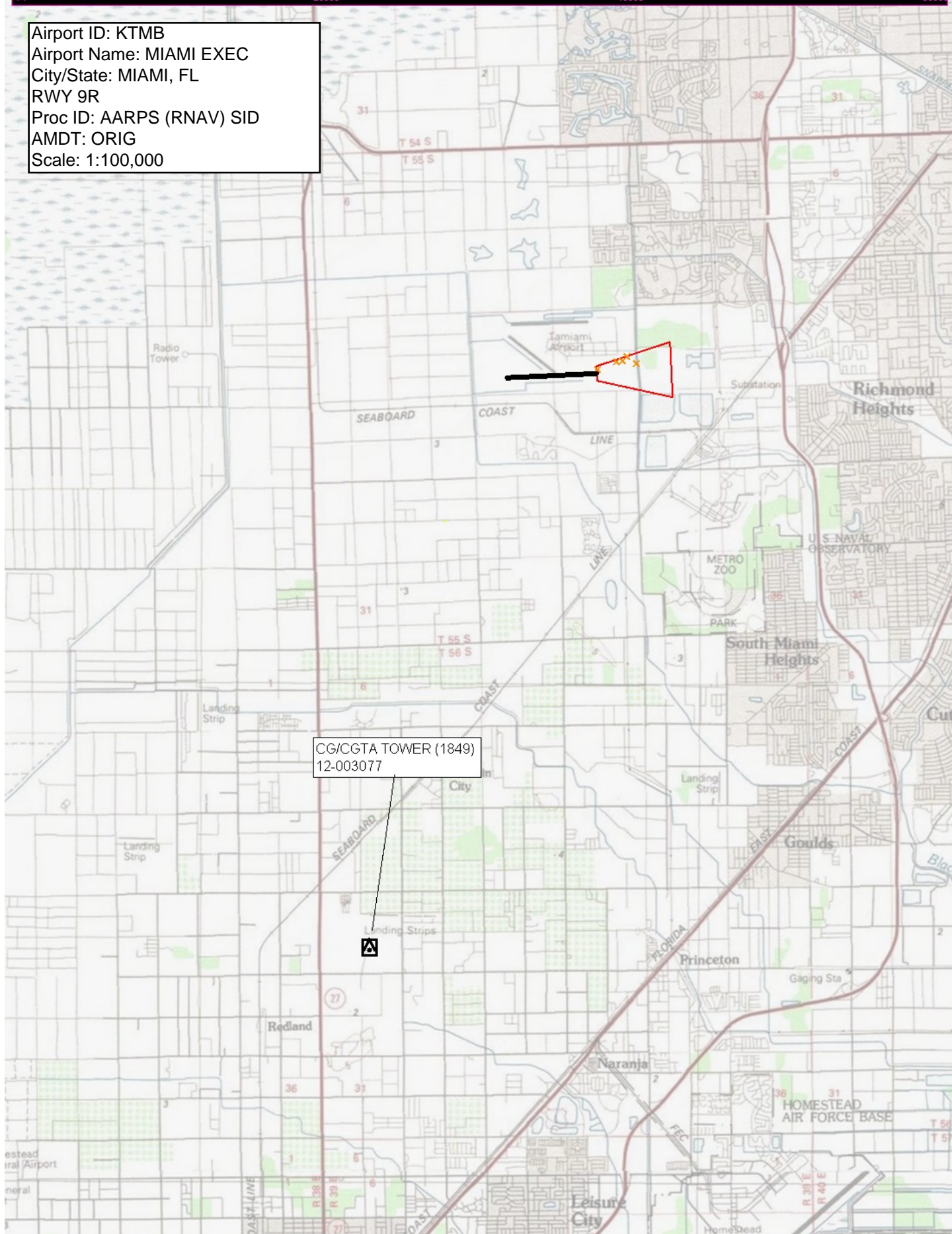


Airport ID: KTMB
Airport Name: MIAMI EXEC
City/State: MIAMI, FL
RWY: 9L
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000



NM
FT 2 4 6 8 20000 40000 60000

Airport ID: KTMB
Airport Name: MIAMI EXEC
City/State: MIAMI, FL
RWY 9R
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000



Airport ID: KTMB
 Airport Name: MIAMI EXEC
 City/State: MIAMI, FL
 RWY: 9R
 Proc ID: AARPS (RNAV) SID
 AMDT: ORIG
 Scale: 1:100,000

CG/CGTA TOWER (1849)
 12-003077

CG/CGTA TOWER (1849)
12-003077

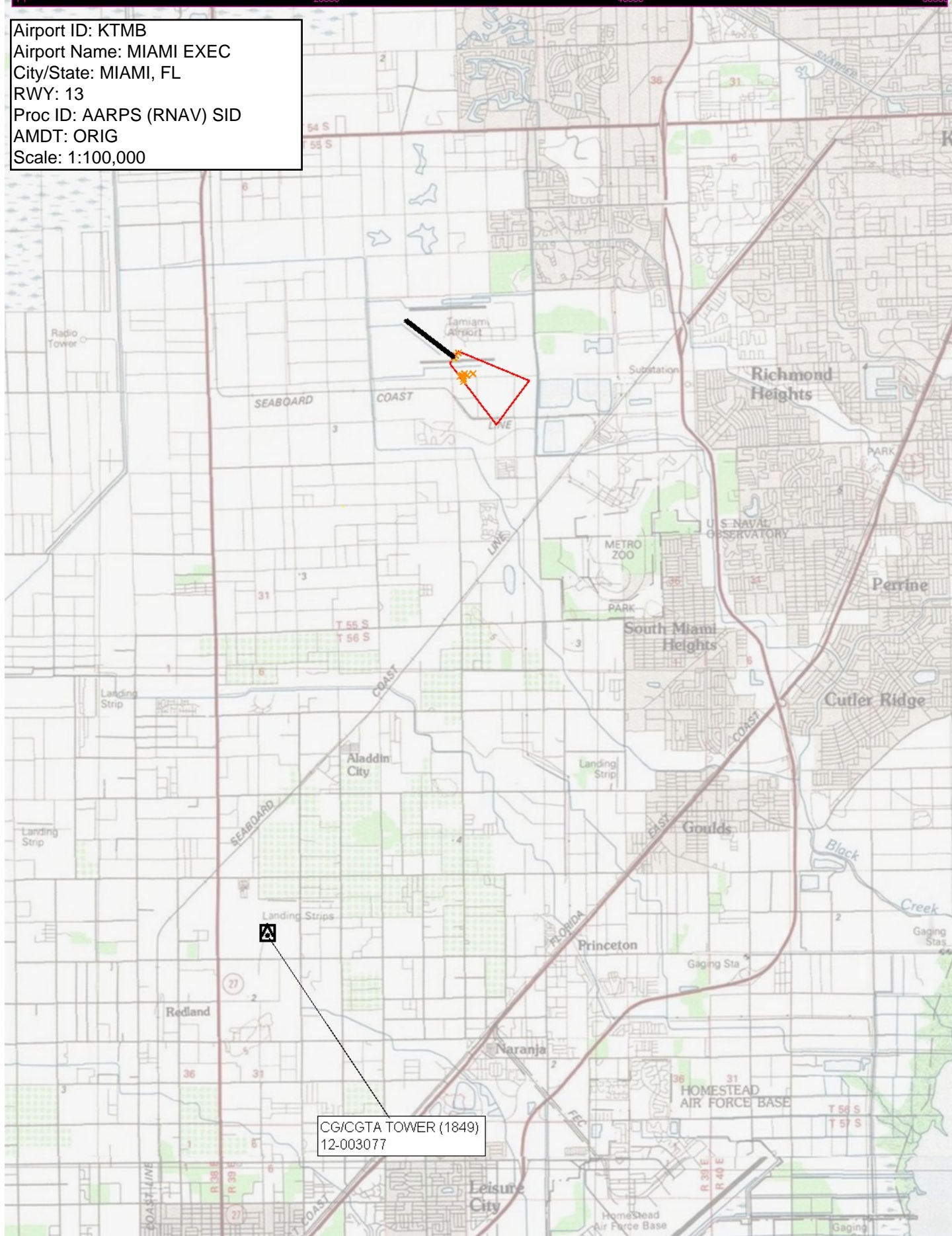


NM
FT

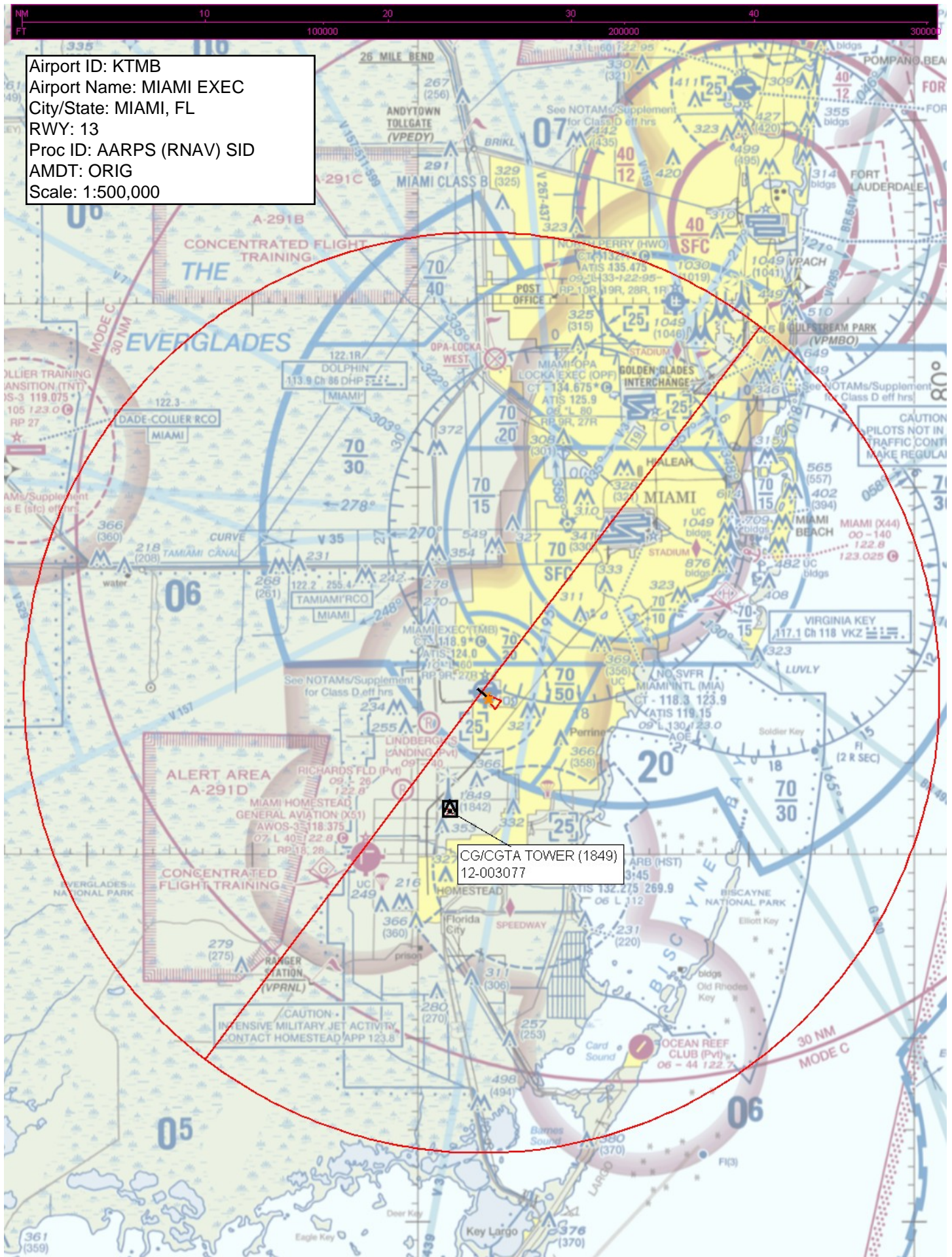
2 4 6 8

20000 40000 60000

Airport ID: KTMB
Airport Name: MIAMI EXEC
City/State: MIAMI, FL
RWY: 13
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000

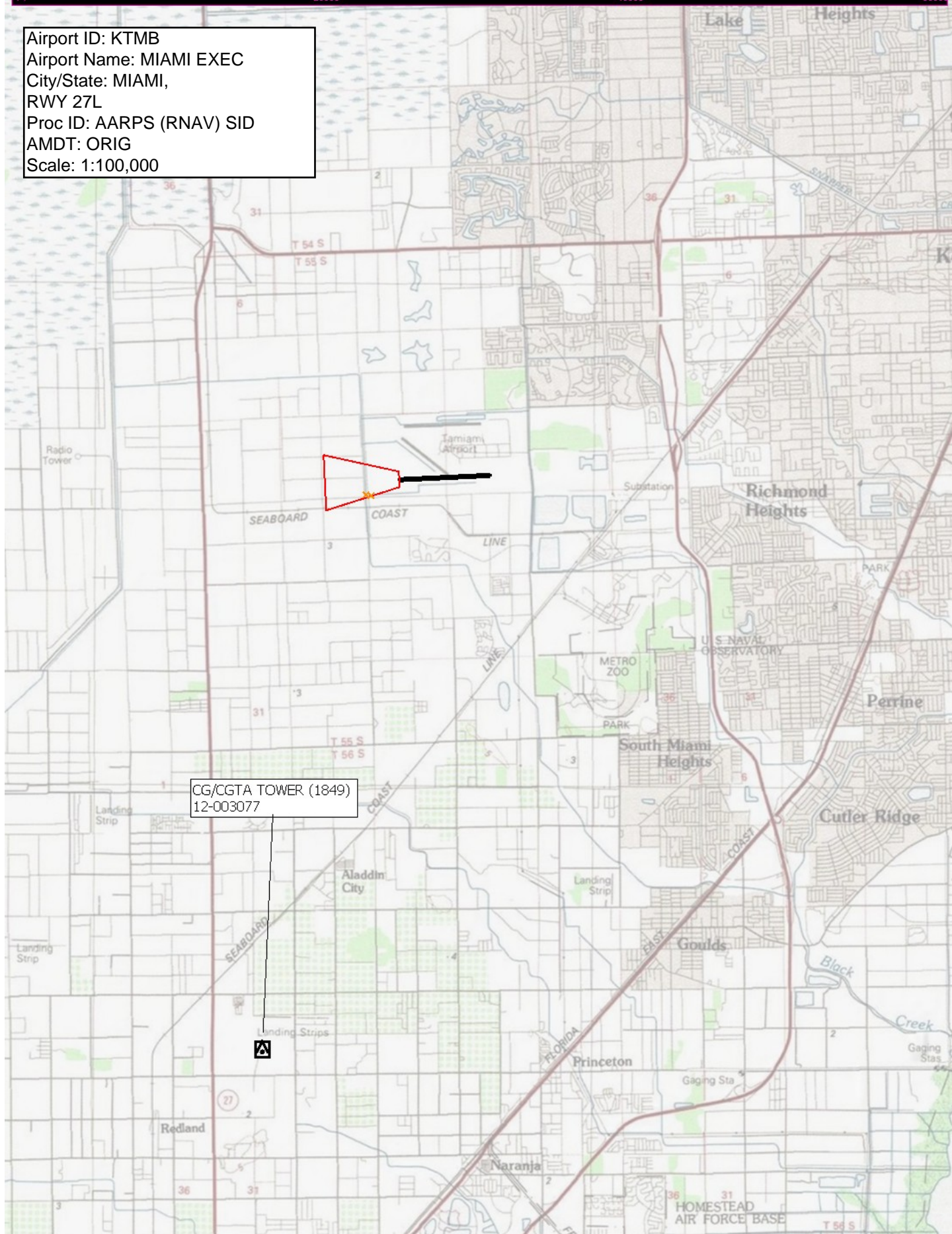


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Airport Name: MIAMI EXEC
City/State: MIAMI, FL
RWY: 13
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000



NM
FT 2 4 6 8 20000 40000 60000

Airport ID: KTMB
Airport Name: MIAMI EXEC
City/State: MIAMI,
RWY 27L
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000



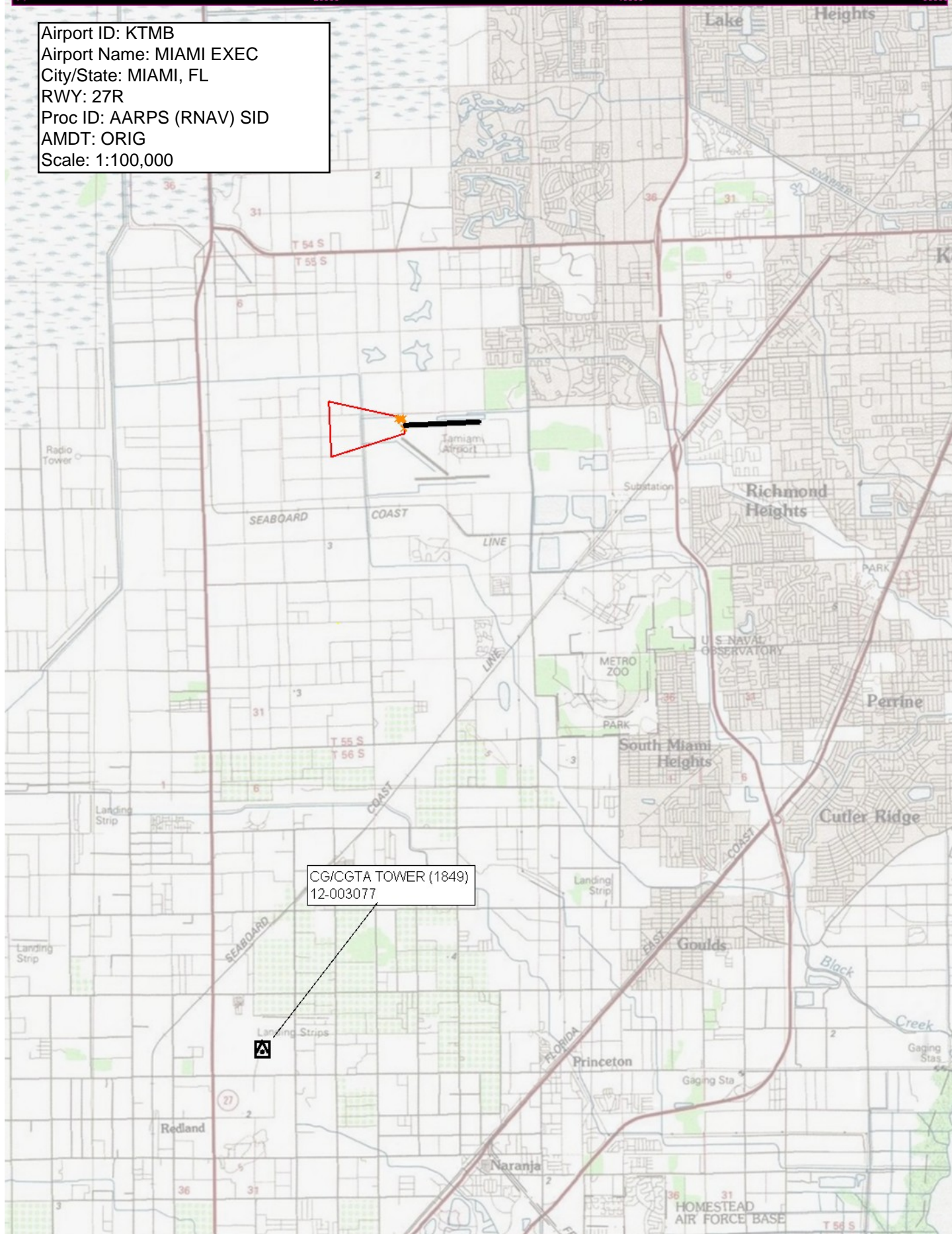
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Airport Name: MIAMI EXEC
City/State: MIAMI, FL
RWY: 27L
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000

CG/CGTA TOWER (1849)
12-003077

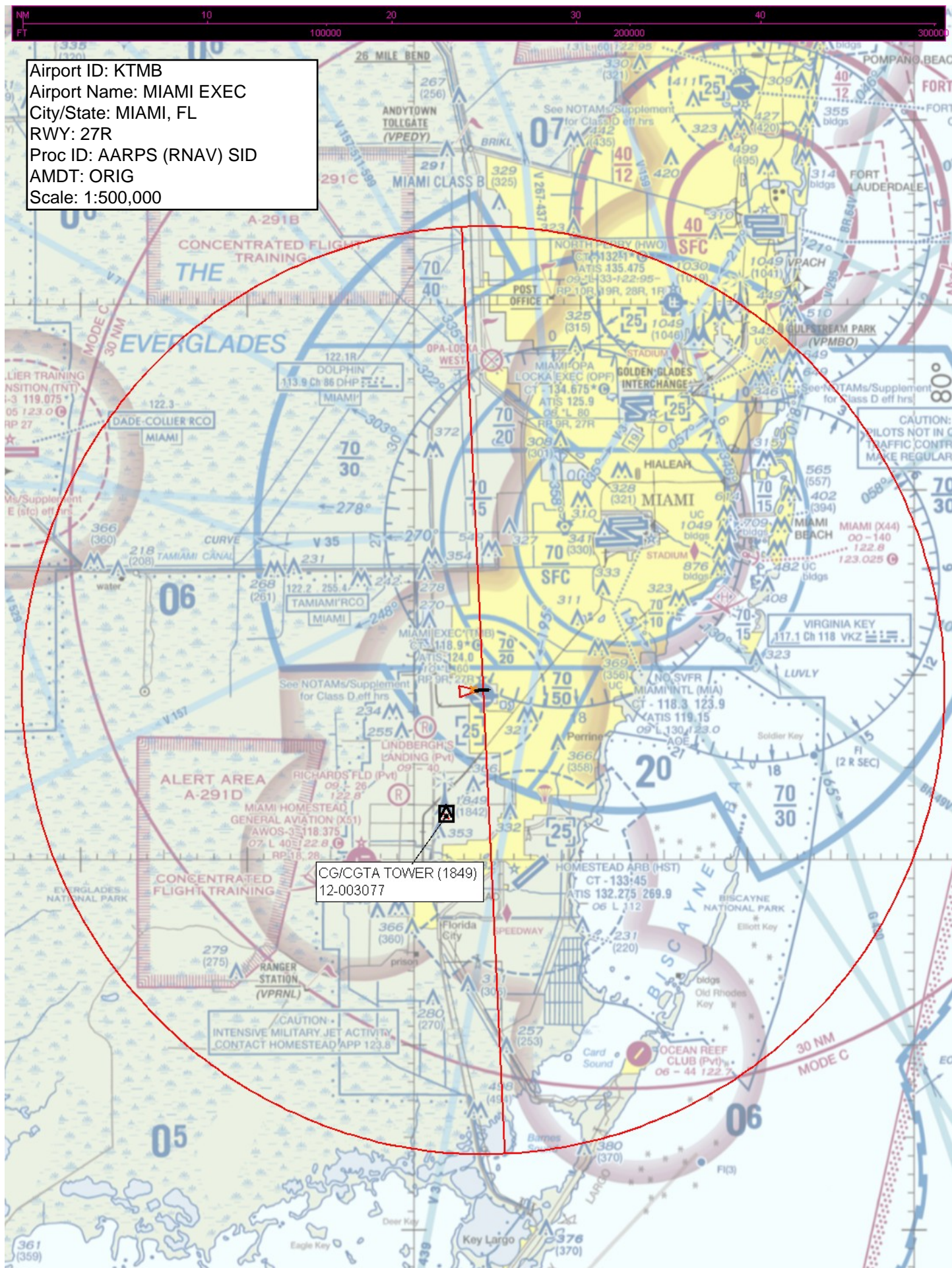
CG/CGTA TOWER (1849)
12-003077

NM
FT 2 4 6 8 20000 40000 60000

Airport ID: KTMB
Airport Name: MIAMI EXEC
City/State: MIAMI, FL
RWY: 27R
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000



Airport ID: KTMB
 Airport Name: MIAMI EXEC
 City/State: MIAMI, FL
 RWY: 27R
 Proc ID: AARPS (RNAV) SID
 AMDT: ORIG
 Scale: 1:500,000

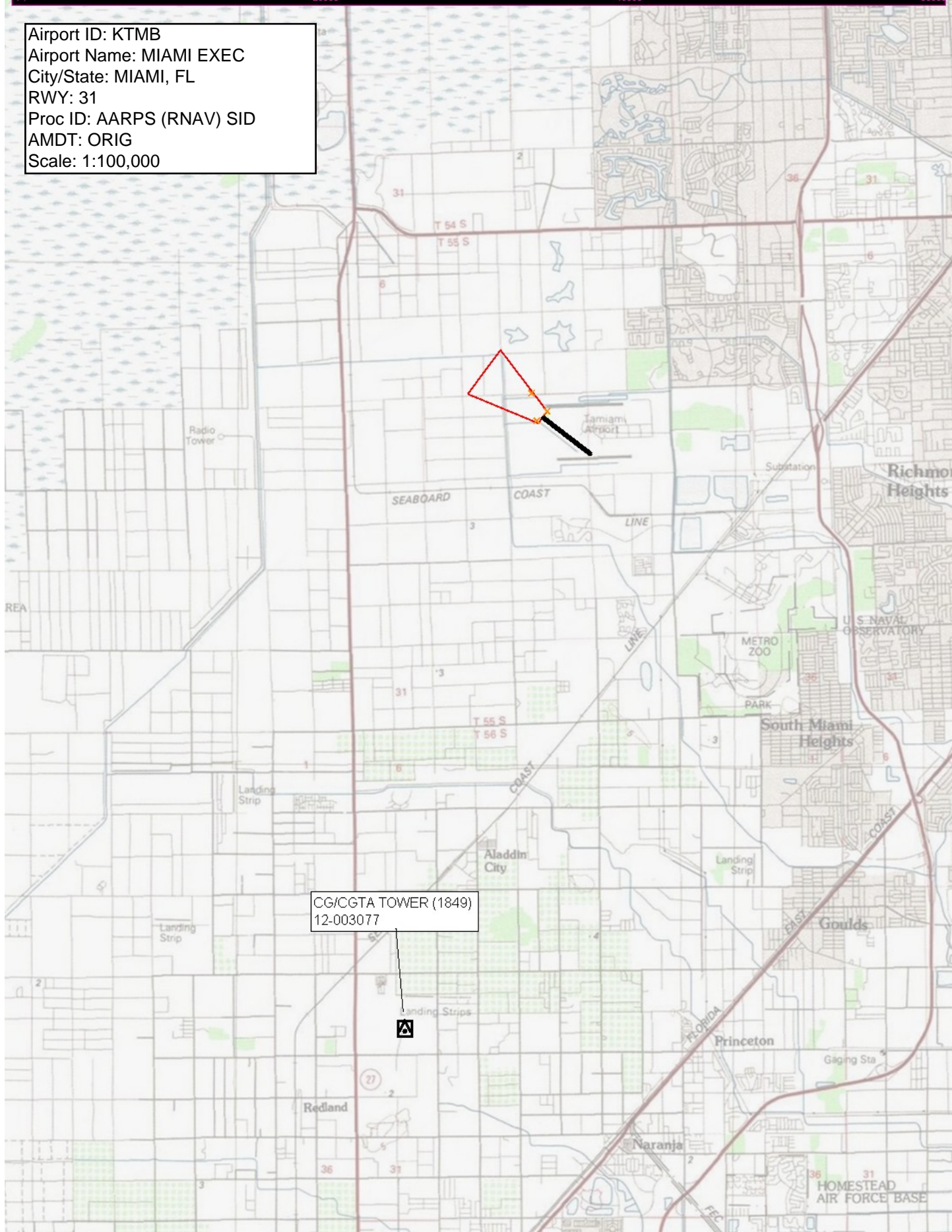


NM
FT

2 4 6 8

20000 40000 60000

Airport ID: KTMB
Airport Name: MIAMI EXEC
City/State: MIAMI, FL
RWY: 31
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000

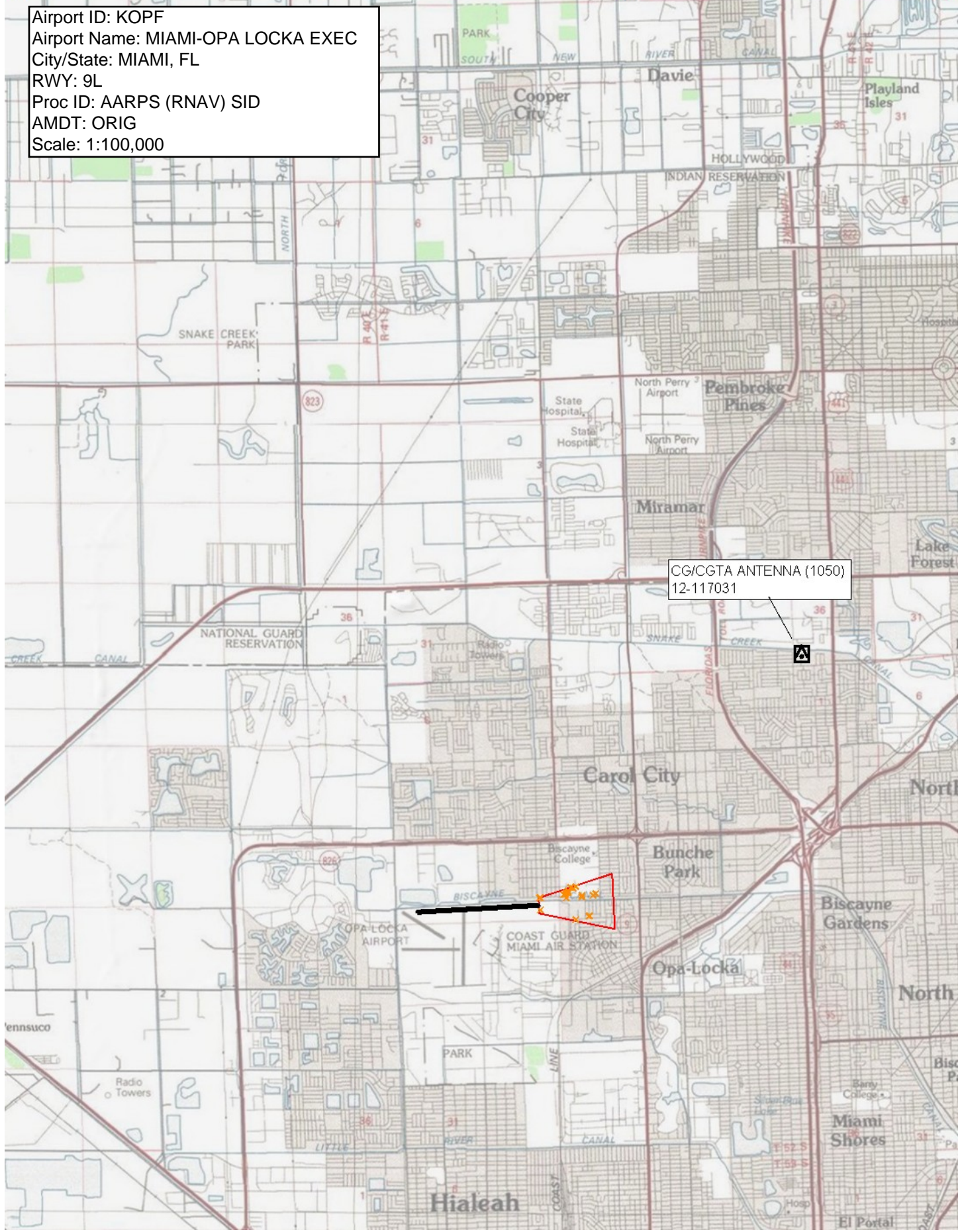


Airport ID: KTMB
Airport Name: MIAMI EXEC
City/State: MIAMI, FL
RWY: 31
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000

The chart displays the following information:
- **Airports:** Miami International (MIA), Miami Executive (TMB), Homestead, Opa Locka, Golden Glades Interchange.
- **Navigation Aids:** VORTAC stations, DME arcs, and various frequency boxes.
- **Terrain:** Elevation contours and spot heights.
- **Obstacles:** Obstruction symbols with MSL and AGL altitudes.
- **Communication:** ATIS, Tower, Unicom, and other frequencies.
- **Procedural:** RNAV routes, SIDs, and CRJs.
- **Geographic Features:** Everglades National Park, Biscayne National Park, and surrounding cities.



Airport ID: KOPF
Airport Name: MIAMI-OPA LOCKA EXEC
City/State: MIAMI, FL
RWY: 9L
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000



CG/CGTA ANTENNA (1050)
12-117031

Airport ID: KOPF
Airport Name: MIAMI-OPA LOCKA EXEC
City/State: MIAMI, FL
RWY: 9L
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000

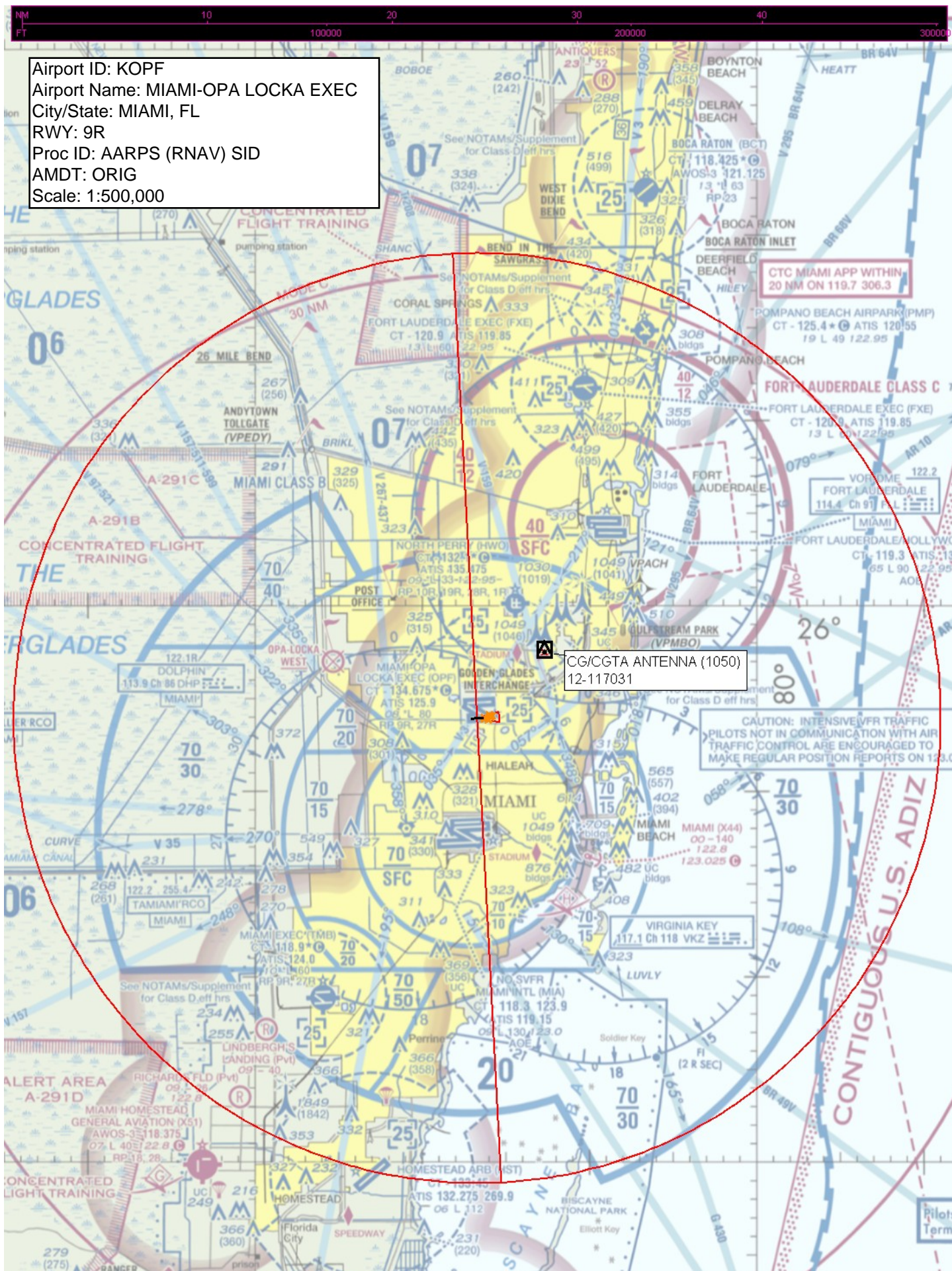
CG/CGTA ANTENNA (1050)
12-117031

CTC MIAMI APP WITHIN
20 NM ON 119.7 306.3

CAUTION: INTENSIVE VFR TRAFFIC
PILOTS NOT IN COMMUNICATION WITH AIR
TRAFFIC CONTROL ARE ENCOURAGED TO
MAKE REGULAR POSITION REPORTS ON 123.0

[illegible]

CG/CGTA ANTENNA (1050)
12-117031



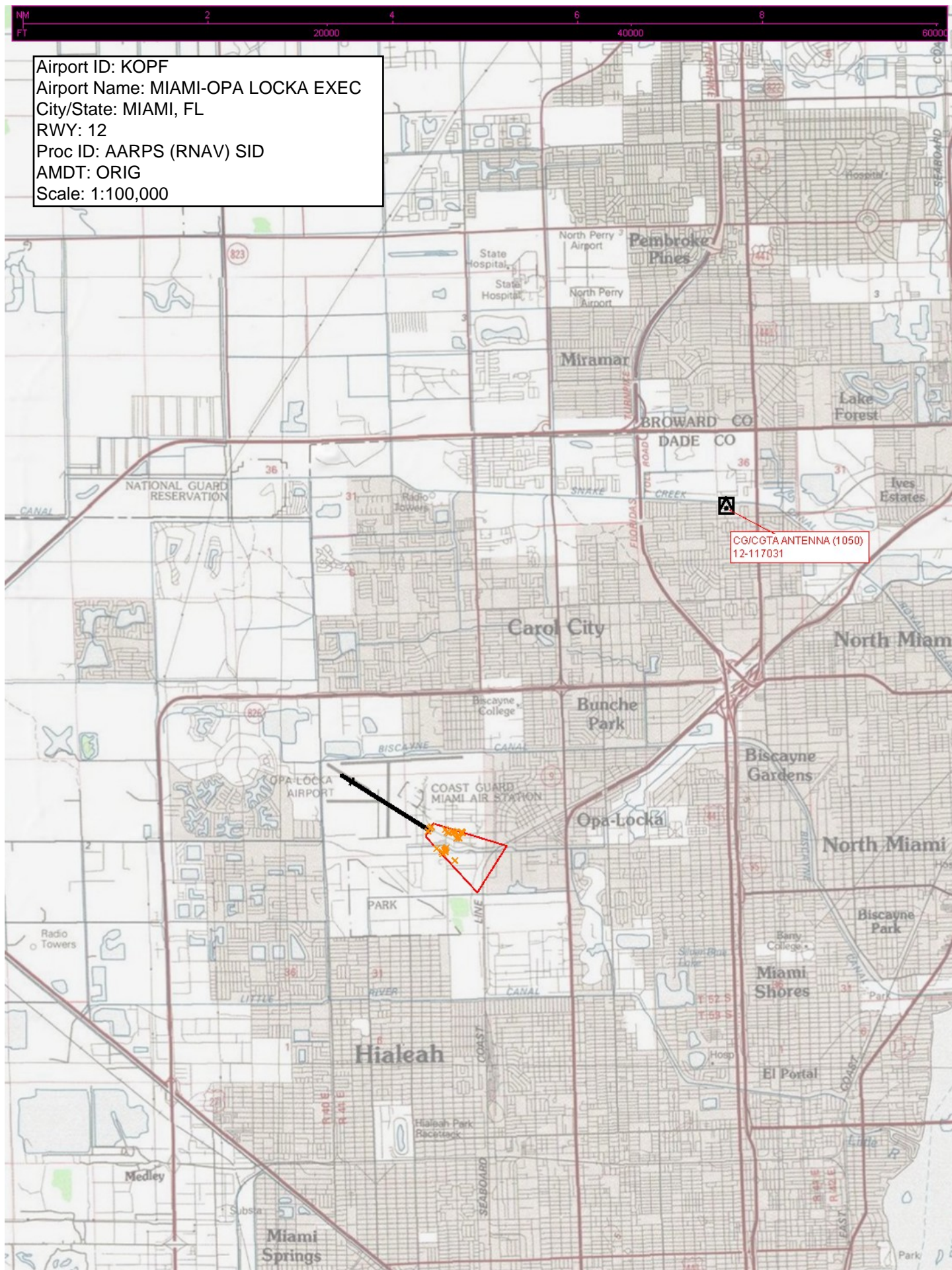
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Airport Name: MIAMI-OPA LOCKA EXEC
City/State: MIAMI, FL
RWY: 9R
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000

CTC MIAMI APP WITHIN
20 NM ON 119.7 306.3

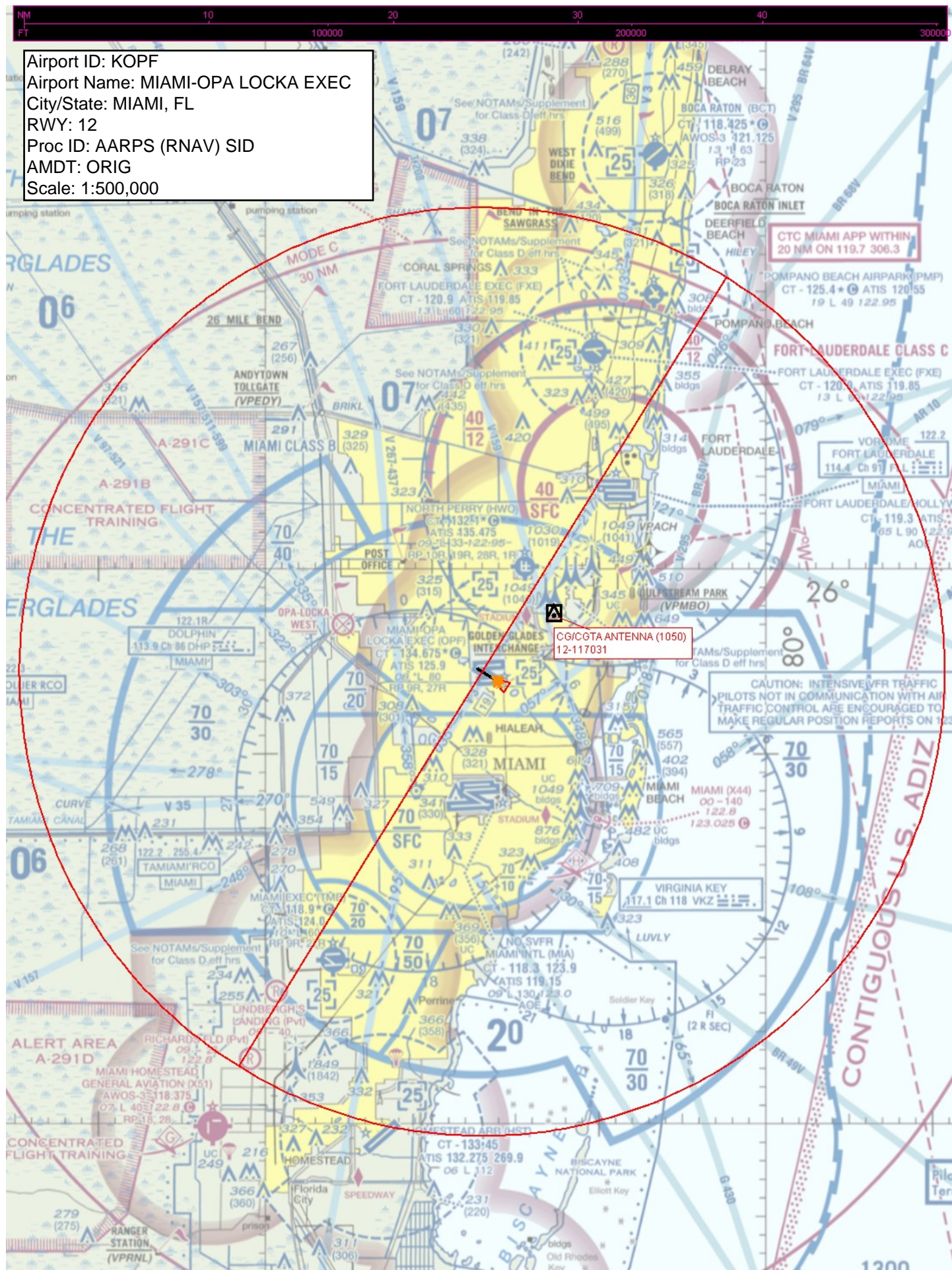
CG/CGTA ANTENNA (1050)
12-117031

CAUTION: INTENSIVE VFR TRAFFIC
PILOTS NOT IN COMMUNICATION WITH AIR
TRAFFIC CONTROL ARE ENCOURAGED TO
MAKE REGULAR POSITION REPORTS ON 123.0.

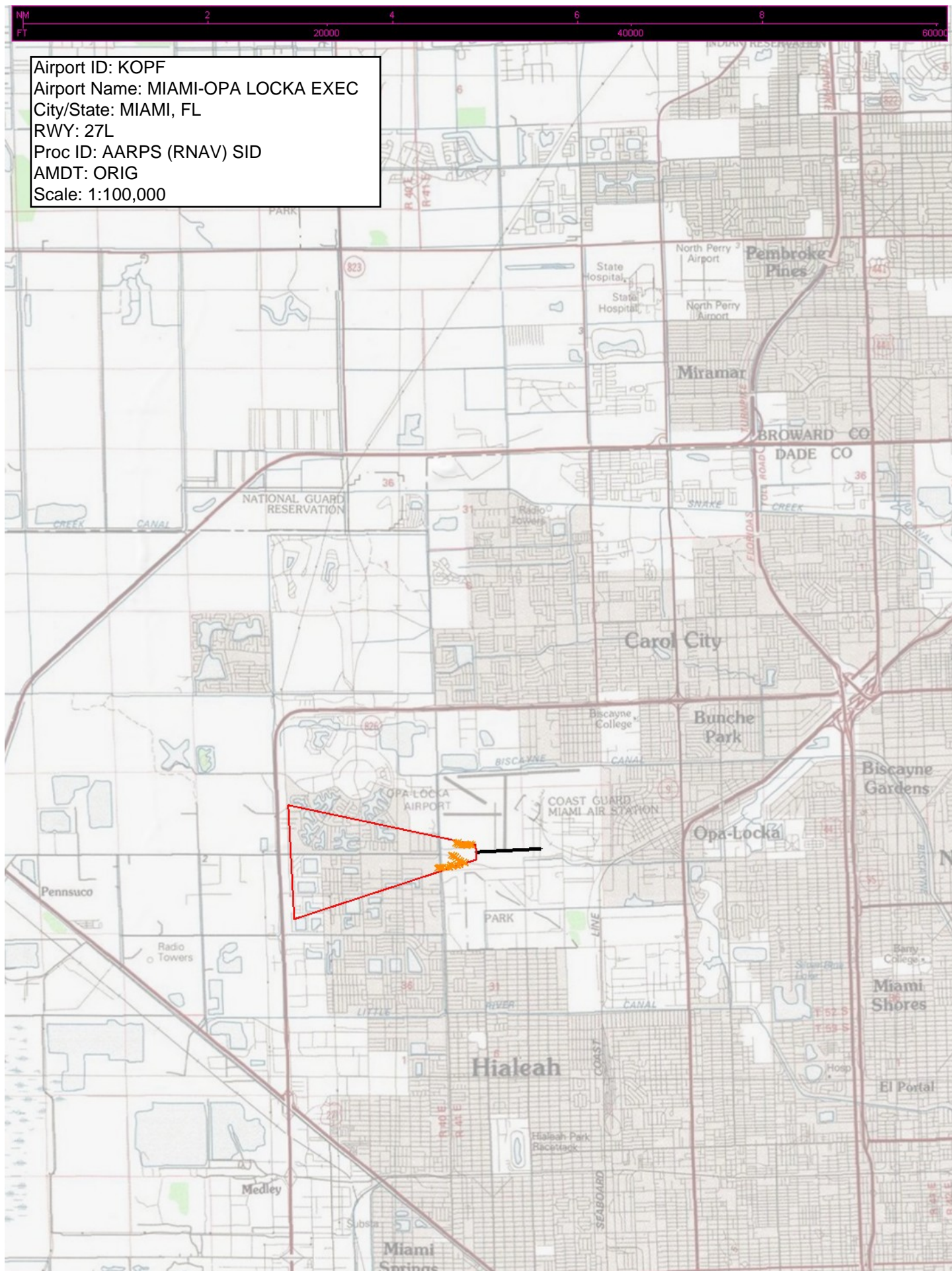
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Airport Name: MIAMI-OPA LOCKA EXEC
City/State: MIAMI, FL
RWY: 12
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000



Airport ID: KOPF
 Airport Name: MIAMI-OPA LOCKA EXEC
 City/State: MIAMI, FL
 RWY: 12
 Proc ID: AARPS (RNAV) SID
 AMDT: ORIG
 Scale: 1:500,000

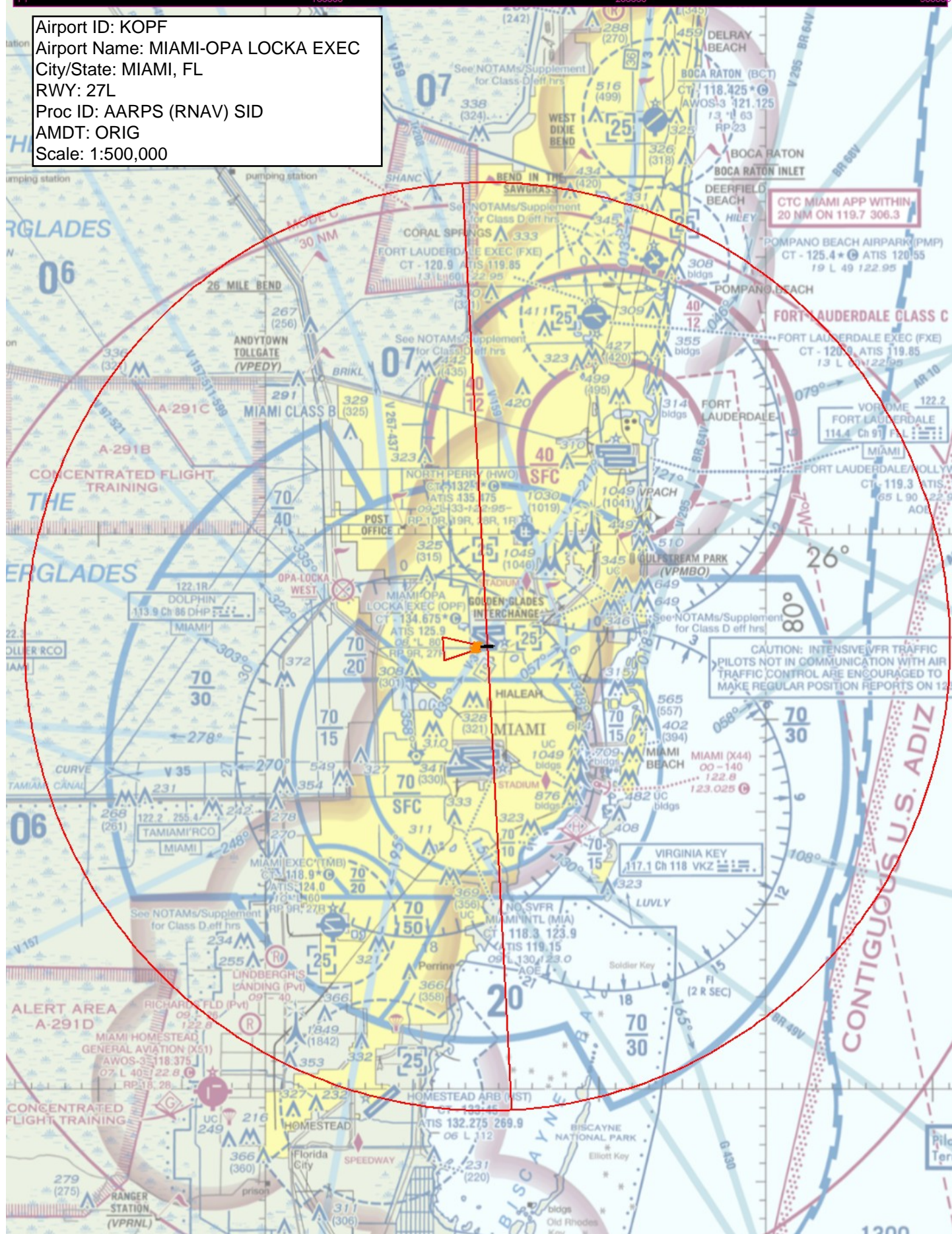


Airport ID: KOPF
Airport Name: MIAMI-OPA LOCKA EXEC
City/State: MIAMI, FL
RWY: 27L
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000

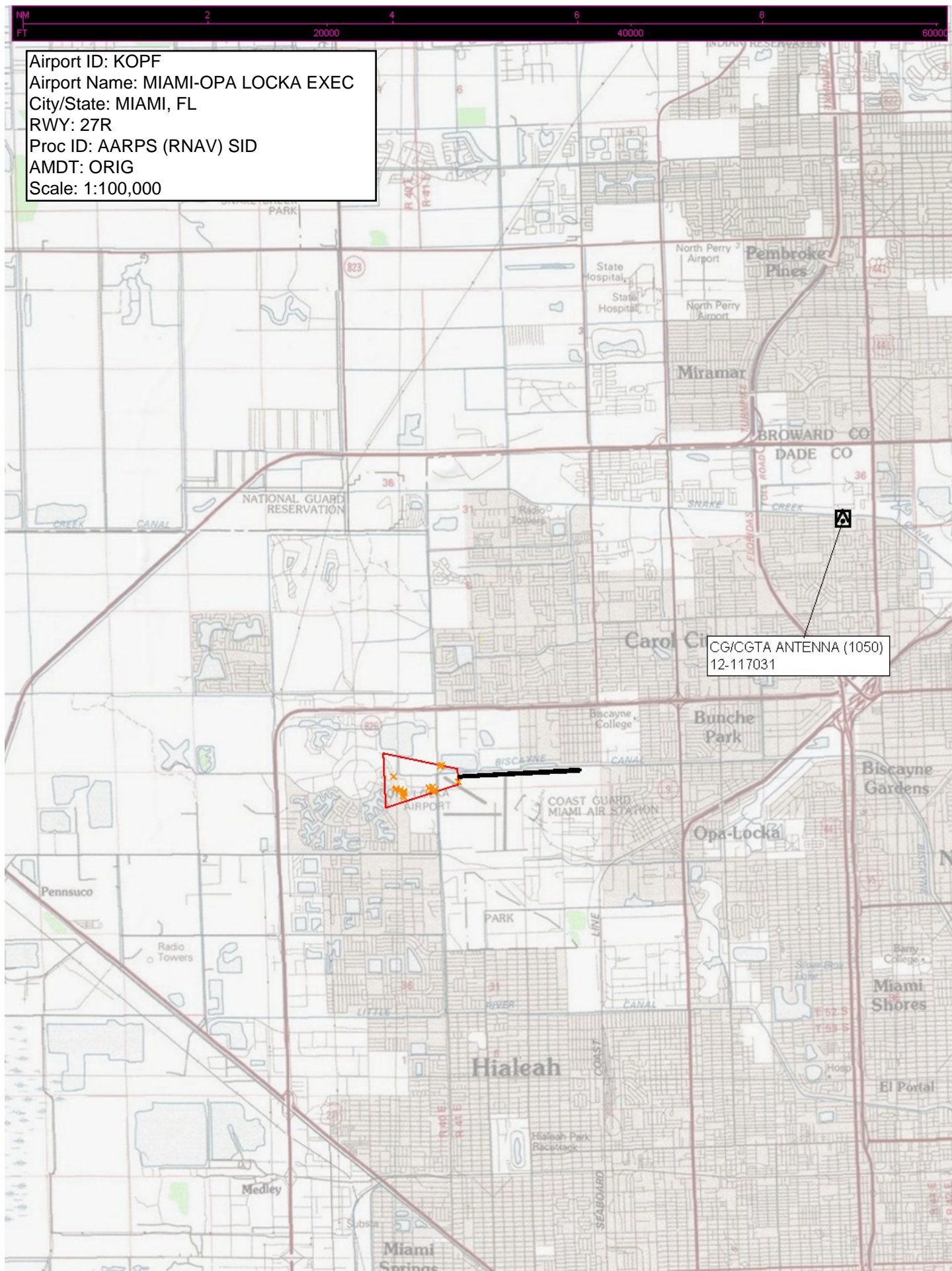




Airport ID: KOPF
Airport Name: MIAMI-OPA LOCKA EXEC
City/State: MIAMI, FL
RWY: 27L
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000

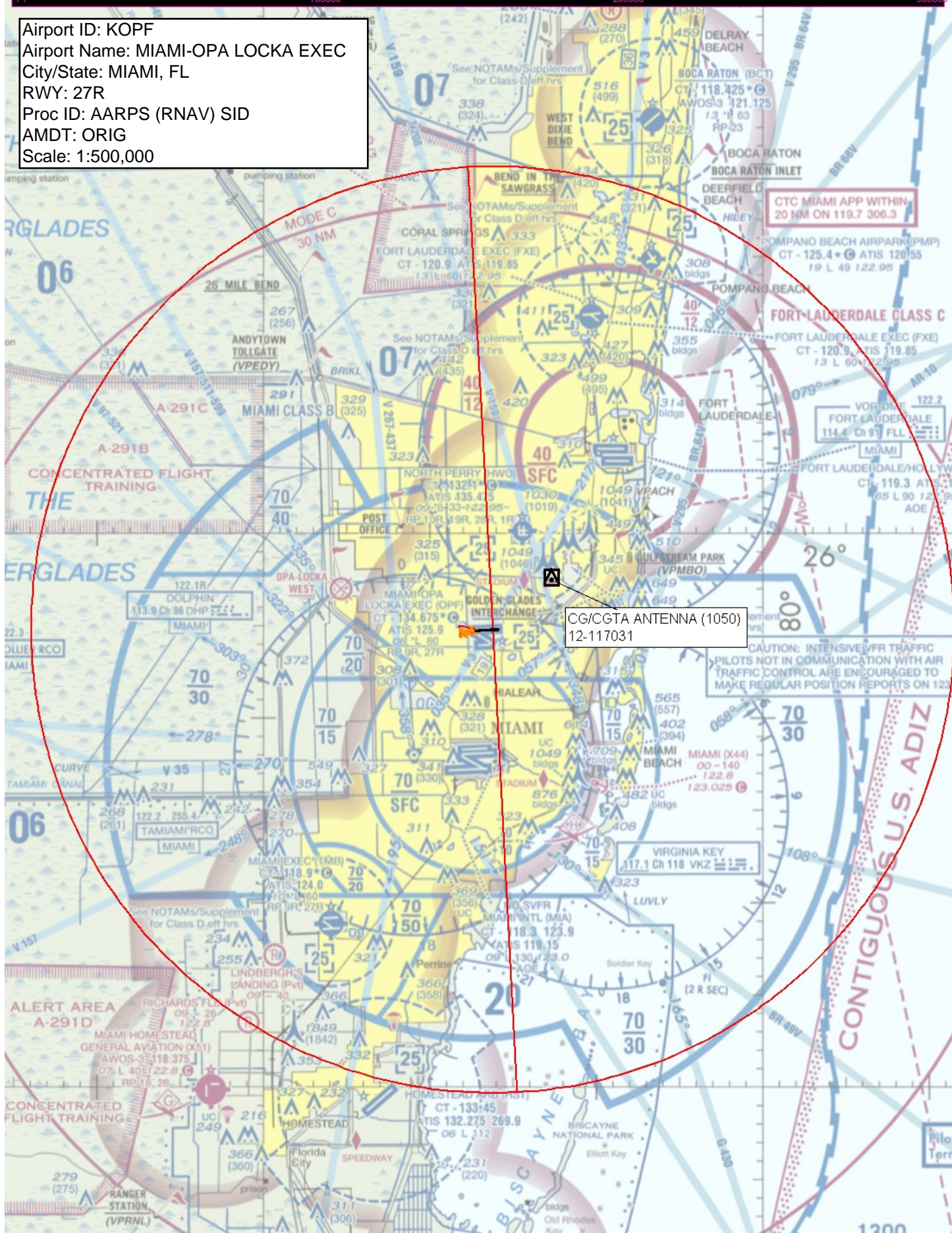


Airport ID: KOPF
Airport Name: MIAMI-OPA LOCKA EXEC
City/State: MIAMI, FL
RWY: 27R
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000

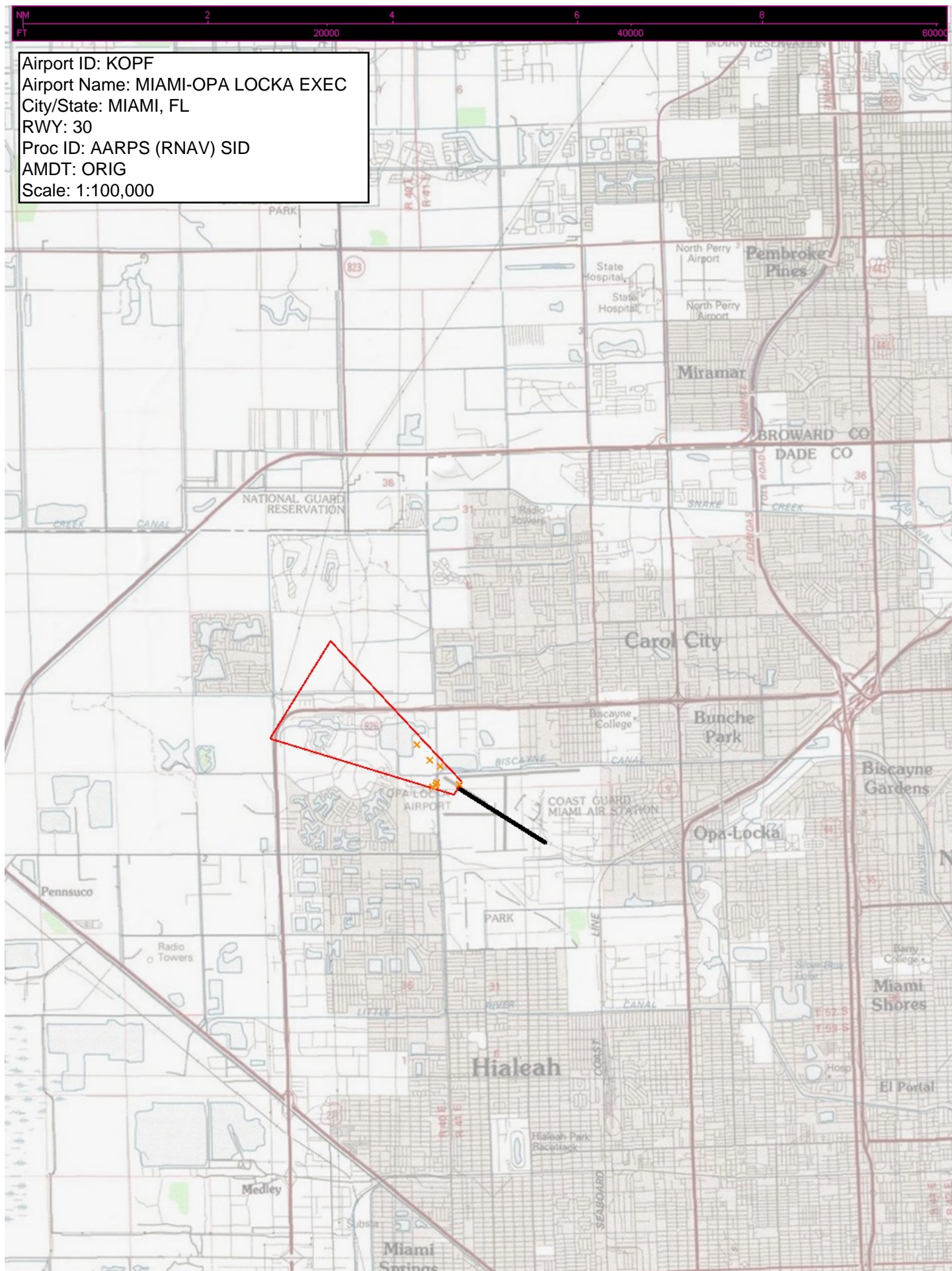




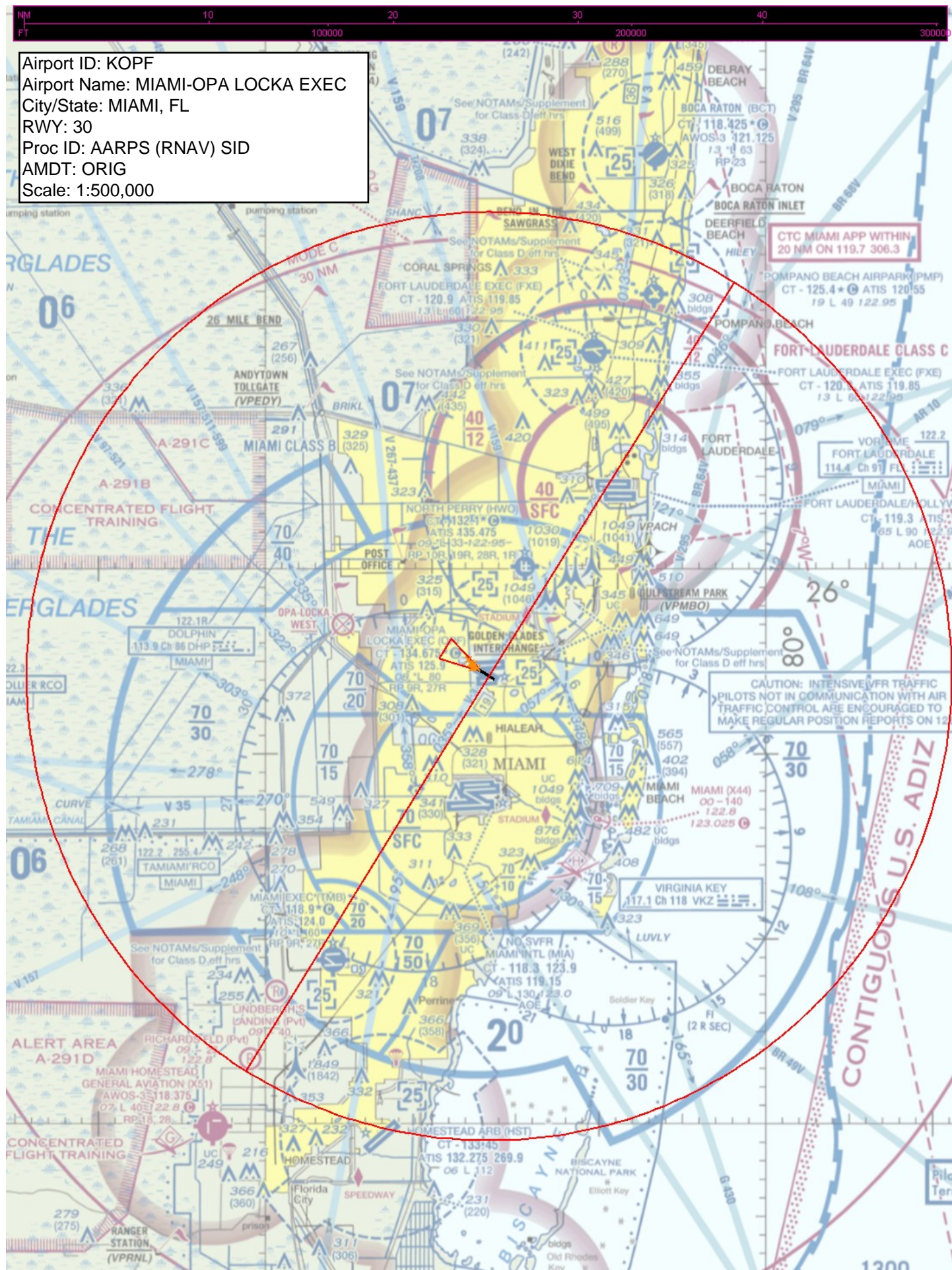
Airport ID: KOPF
Airport Name: MIAMI-OPA LOCKA EXEC
City/State: MIAMI, FL
RWY: 27R
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000

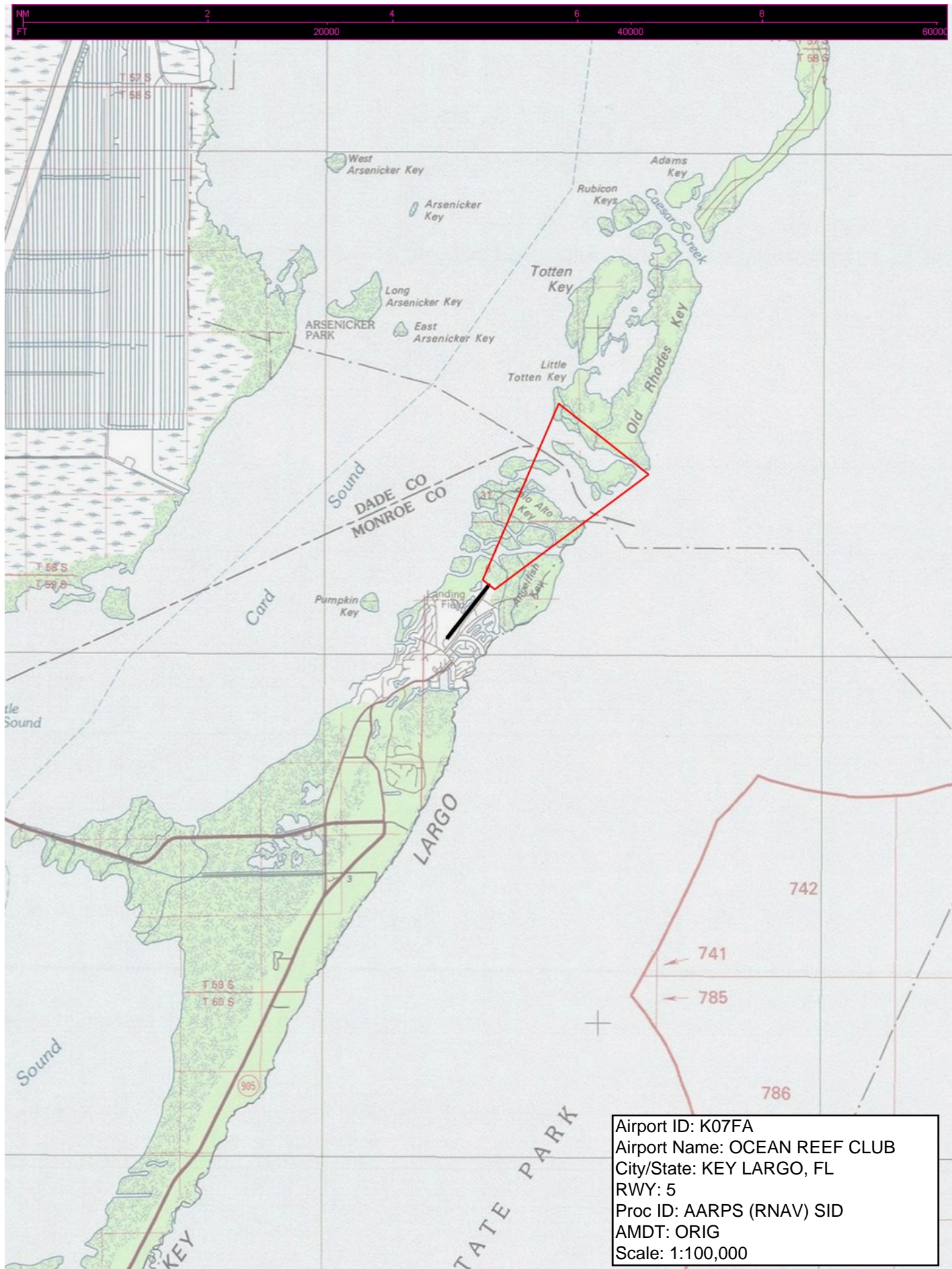


Airport ID: KOPF
Airport Name: MIAMI-OPA LOCKA EXEC
City/State: MIAMI, FL
RWY: 30
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000

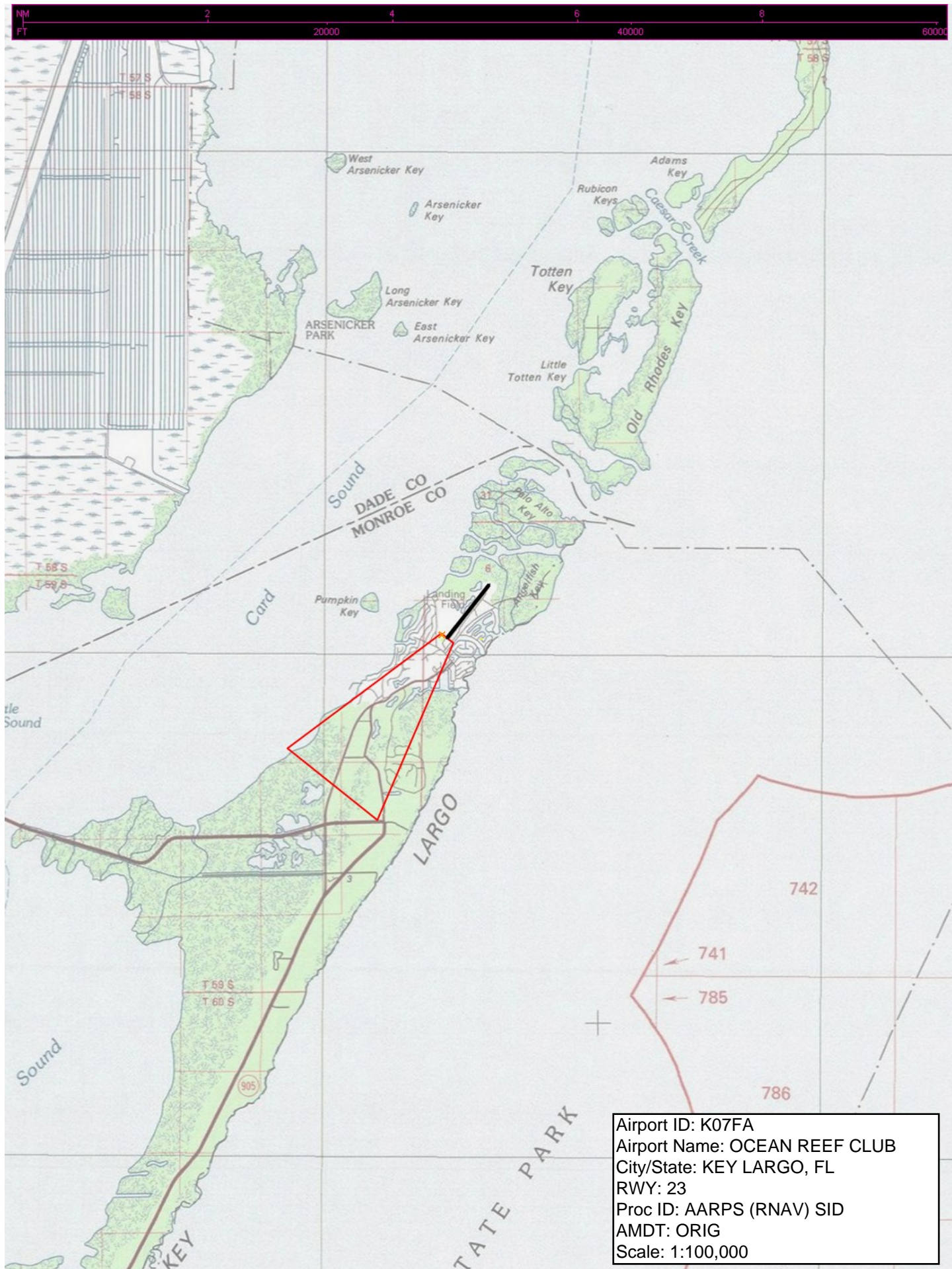


Airport ID: KOPF
Airport Name: MIAMI-OPA LOCKA EXEC
City/State: MIAMI, FL
RWY: 30
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000





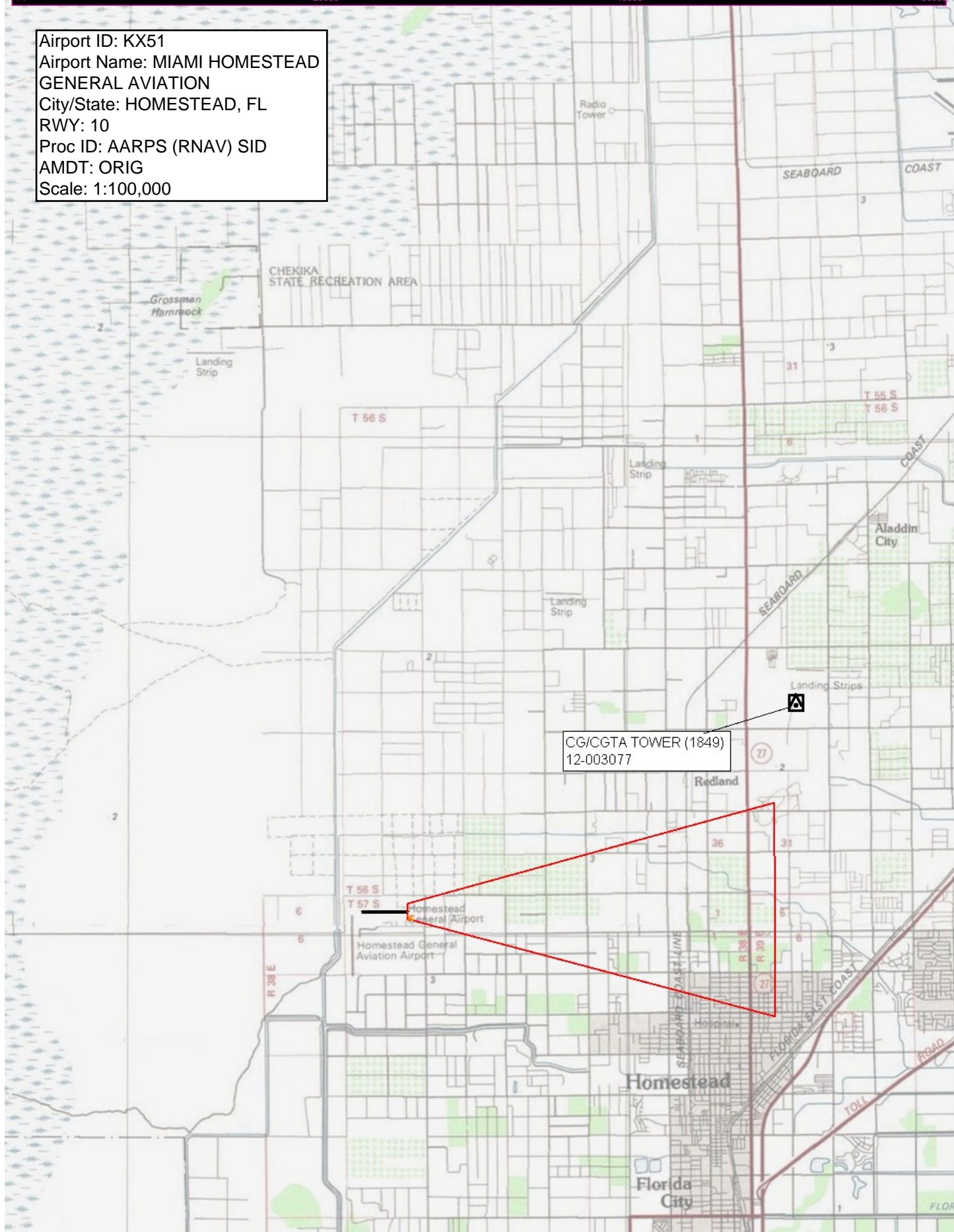








Airport ID: KX51
Airport Name: MIAMI HOMESTEAD
GENERAL AVIATION
City/State: HOMESTEAD, FL
RWY: 10
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000



Airport ID: KX51
 Airport Name: MIAMI HOMESTEAD
 GENERAL AVIATION
 City/State: HOMESTEAD, FL
 RWY: 10
 Proc ID: AARPS (RNAV) SID
 AMDT: ORIG
 Scale: 1:500,000

CG/CGTA TOWER (1849)
 12-003077

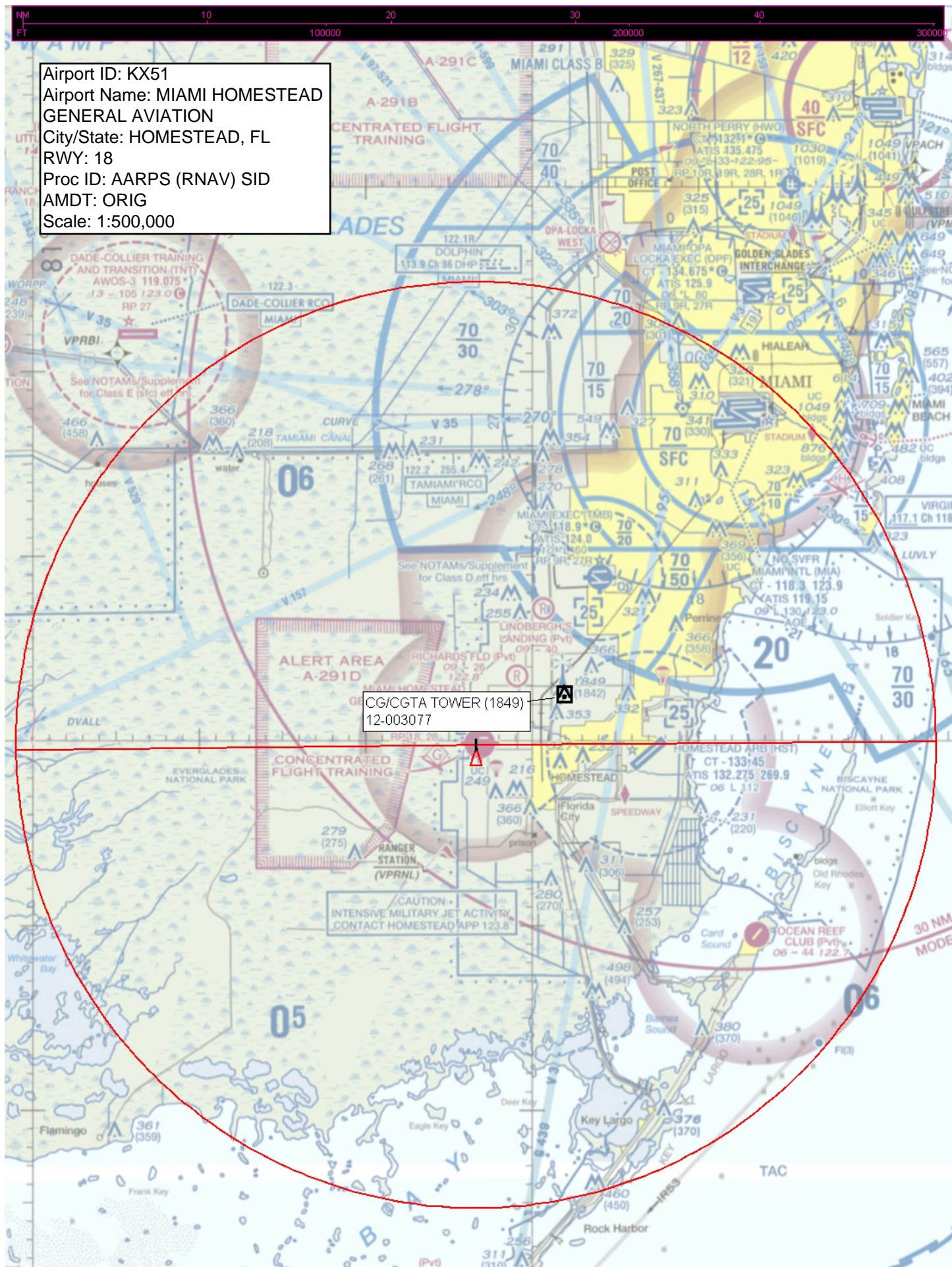
CG/CGTA TOWER (1849)
12-003077

Airport ID: KX51
 Airport Name: MIAMI HOMESTEAD
 GENERAL AVIATION
 City/State: HOMESTEAD, FL
 RWY: 18
 Proc ID: AARPS (RNAV) SID
 AMDT: ORIG
 Scale: 1:100,000

CG/CGTA TOWER (1849)
 12-003077

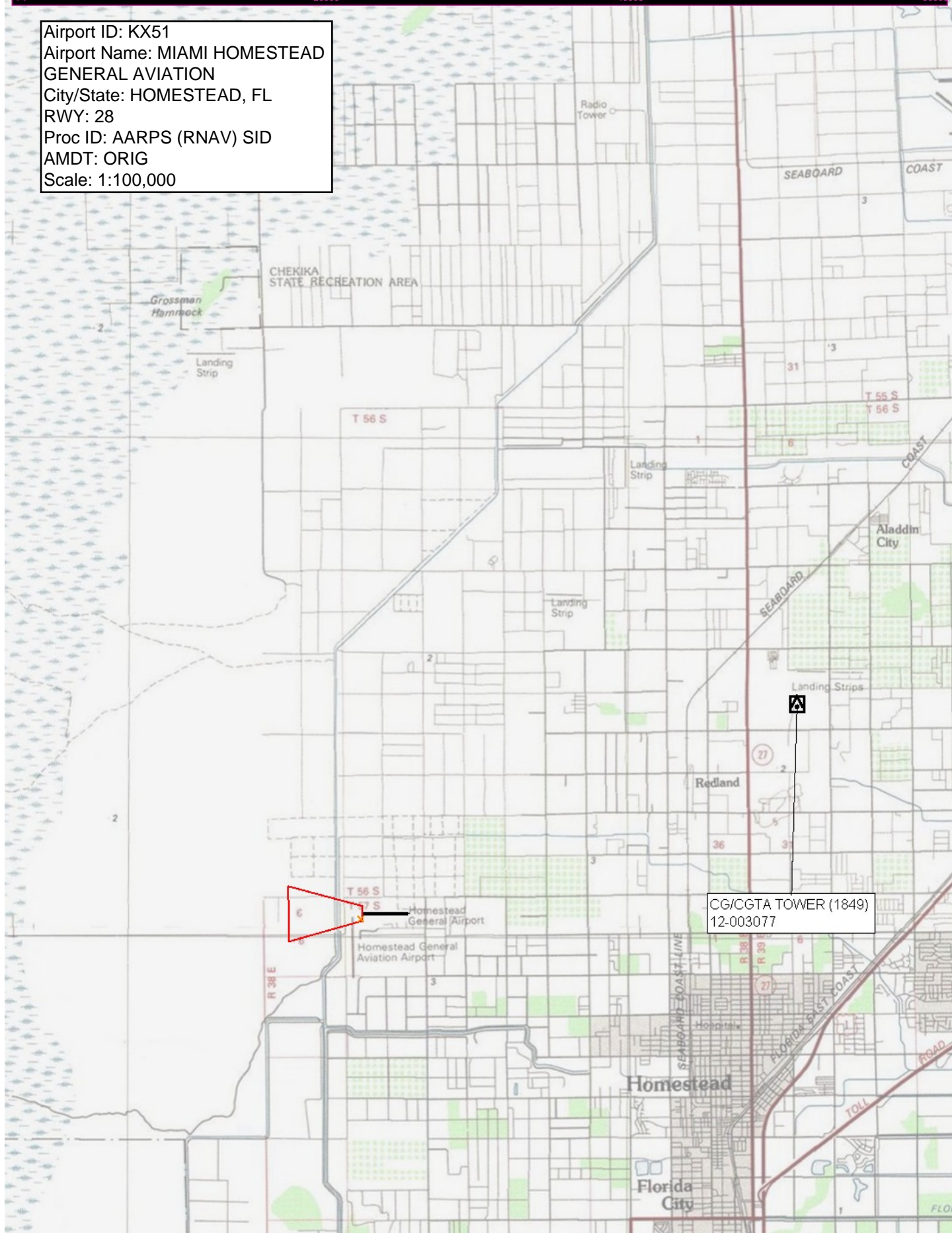
CG/CGTA TOWER (1849)
12-003077

Airport ID: KX51
Airport Name: MIAMI HOMESTEAD
GENERAL AVIATION
City/State: HOMESTEAD, FL
RWY: 18
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000

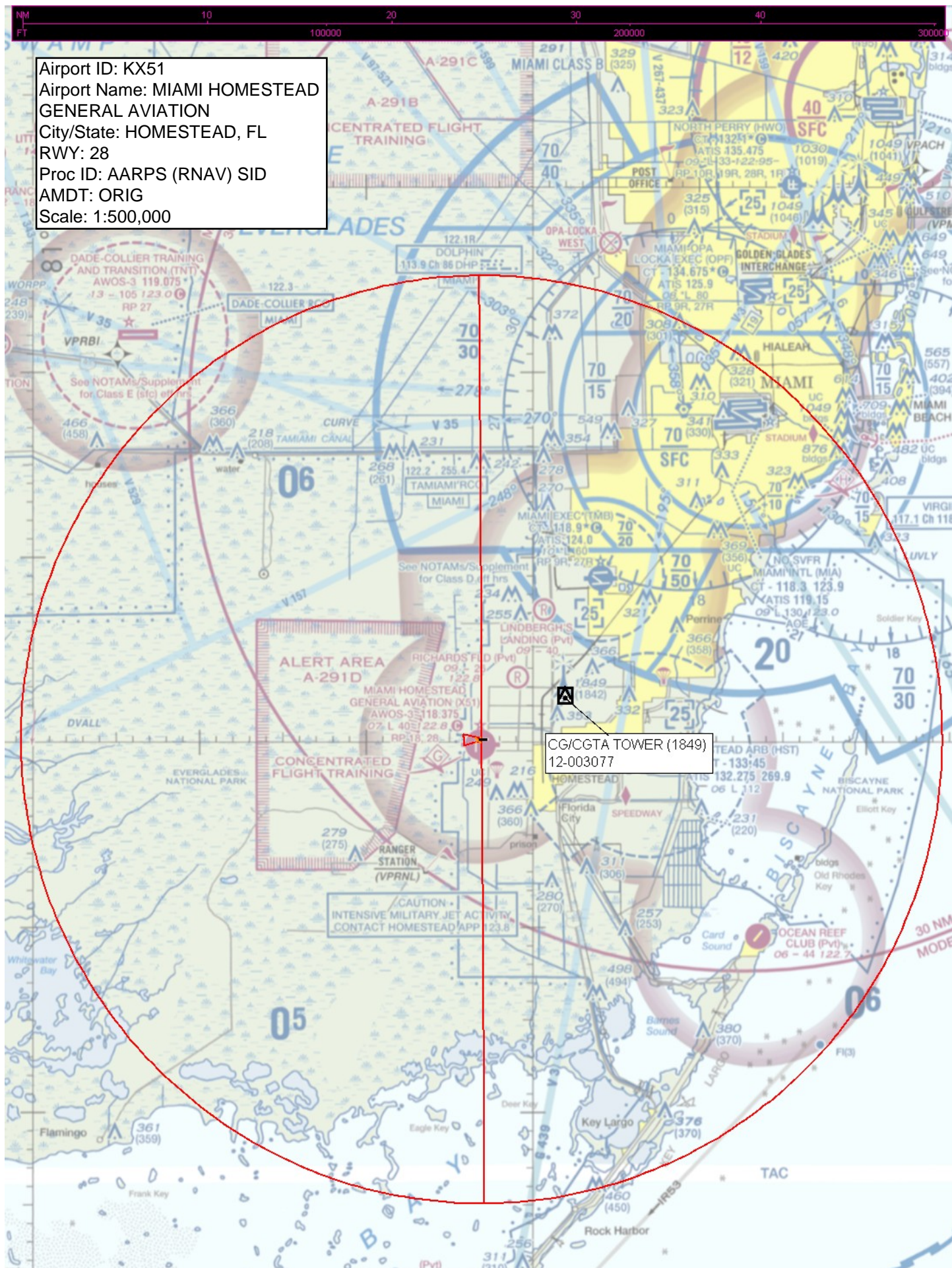


NM
FT 2 4 6 8 20000 40000 60000

Airport ID: KX51
Airport Name: MIAMI HOMESTEAD
GENERAL AVIATION
City/State: HOMESTEAD, FL
RWY: 28
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000

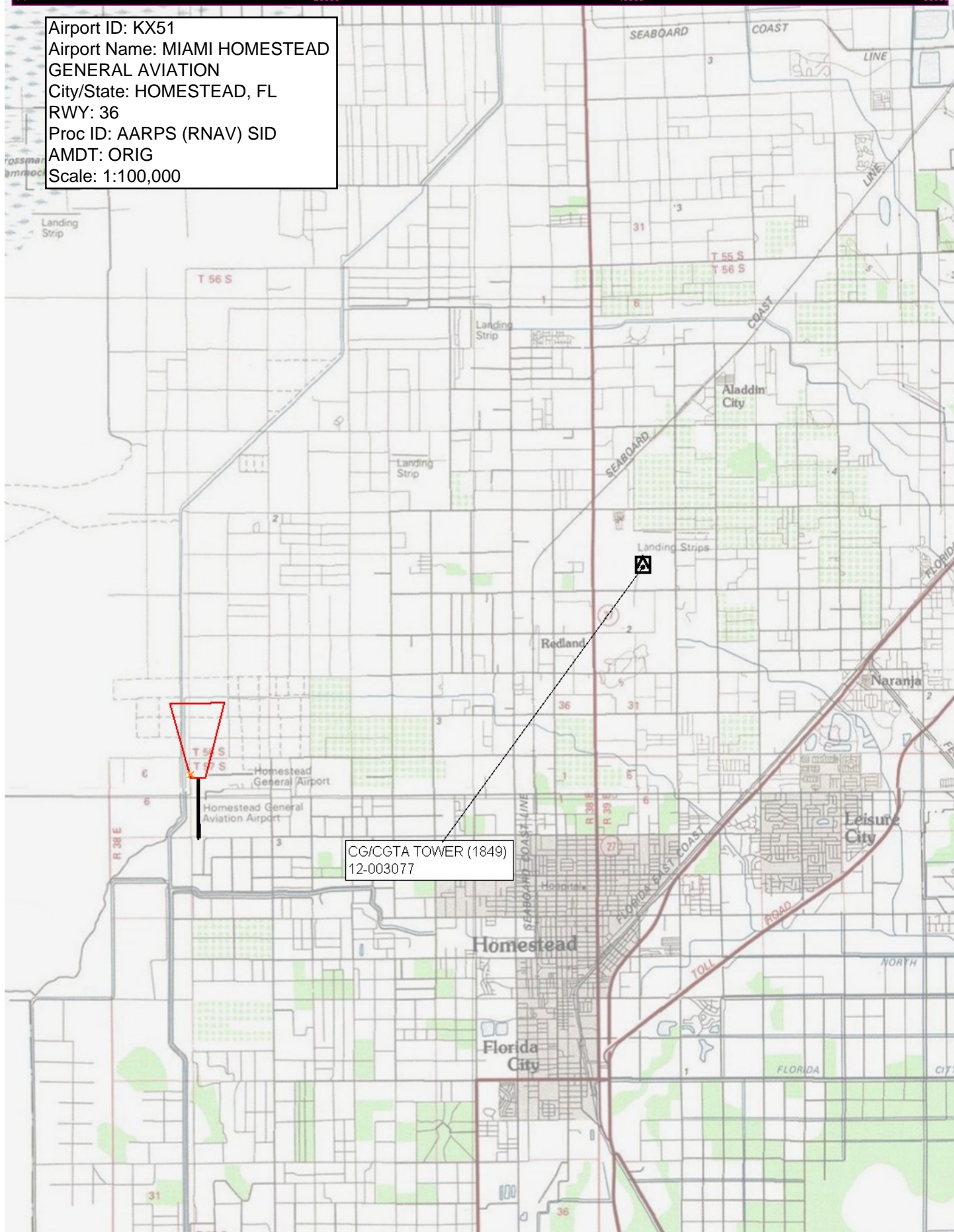


Airport ID: KX51
Airport Name: MIAMI HOMESTEAD
GENERAL AVIATION
City/State: HOMESTEAD, FL
RWY: 28
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:500,000



NM
FT 2 4 6 8 20000 40000 60000

Airport ID: KX51
Airport Name: MIAMI HOMESTEAD
GENERAL AVIATION
City/State: HOMESTEAD, FL
RWY: 36
Proc ID: AARPS (RNAV) SID
AMDT: ORIG
Scale: 1:100,000



Airport ID: KX51
 Airport Name: MIAMI HOMESTEAD
 GENERAL AVIATION
 City/State: HOMESTEAD, FL
 RWY: 36
 Proc ID: AARPS (RNAV) SID
 AMDT: ORIG
 Scale: 1:500,000

CG/CGTA TOWER (1849)
 12-003077

ALERT AREA A-291D
 MIAMI HOMESTEAD
 GENERAL AVIATION (X51)
 AWOS-3 118.375
 07 L 40 22.8
 RP 18.28

CONCENTRATED FLIGHT TRAINING

DADE-COLLIER RCO
 MIAMI

MIAMI EXEC (TMB)
 CT 118.9
 ATIS 124.0
 RP 9R 27R

MIAMI INTL (MIA)
 CT 113.3 123.9
 ATIS 119.15
 09 L 130 123.0
 AOE 1

HOMESTEAD ARB (HST)
 CT 133.45
 ATIS 132.275 269.9
 06 L 112

OCEAN REEF CLUB (Pvt)
 06 - 44 122.7

RANGER STATION (VPRNL)

CAUTION - INTENSIVE MILITARY JET ACTIVITY
 CONTACT HOMESTEAD APP 123.8

FLORIDA CITY
 SPEEDWAY

BISCAYNE NATIONAL PARK
 ELLIS KEY

FLORIDA CITY
 SPEEDWAY

BISCAYNE NATIONAL PARK
 ELLIS KEY

FLORIDA CITY
 SPEEDWAY

BISCAYNE NATIONAL PARK
 ELLIS KEY