

Flight Procedures Cover Page	Task Action: FLIGHT CHECK	Task Type: SID	Estimated Chart Date: 11/27/2025	APWS Task ID: F5B775C9A101469A886B7827A3318357	APWS Project ID: 3332ADB54112480E9FDED5FB1D9B145E
Procedure: TIPPEN FOUR (RNAV) DEPARTURE		Enroute: YES	Specialist: Mccartney, Michael		Agreement Number:
Airport ID: KBNA			Airport City: NASHVILLE		State: TN
Facility ID:	Facility Type:	Flight Inspection Remark Type: New FC Slot			
<div>Procedure Comments: ACTIVE AIRPORT DATA UTILIZED. PENDING RWY 2C, 2R, 20C, 20L DATA UTILIZED. BLANKET WAIVER ON FILE: AFS-420 MEMO DATED 01/31/2023, SUBJECT: WAIVER TO FAA ORDER 8260.58C PARAGRAPH 1-2-5.C.(3), MAXIMUM BANK ANGLE. CONTACT: CASEY HILL, AJV-A431, MANAGER, 405-954-0624.</div>					

QUALITY
20
CHECKED

QUALITY
38
CHECKED



INFO

Federal Aviation Administration

Memorandum

Date: January 31, 2023

To: Instrument Flight Procedure Service Providers
Digitally signed by WADE
EK TERRELL
WADE EK TERRELL Date: 2023.01.31 09:21:16
-06'00'

From: Wade E.K. Terrell, Manager, Flight Procedures and Airspace Group

Subject: Waiver to FAA Order 8260.58C paragraph 1-2-5.c.(3), Maximum bank angle

Background: The Performance Based Navigation (PBN) Aviation Rulemaking Committee (PARC) made a recommendation that the FAA adjust the turn parameters used in PBN instrument flight procedure (IFP) design to reflect modern avionics values. The Flight Procedures and Airspace Group analyzed current avionics specifications with the help of several FAA offices and RTCA SC-227 to identify the new bank angles necessary for current IFP design. The Flight Procedures and Airspace Group then conducted an Operational Safety Review (OSR) for this amendment to bank angle criteria. The outcome of the OSR was that no new hazard is introduced into the National Aerospace System (NAS).

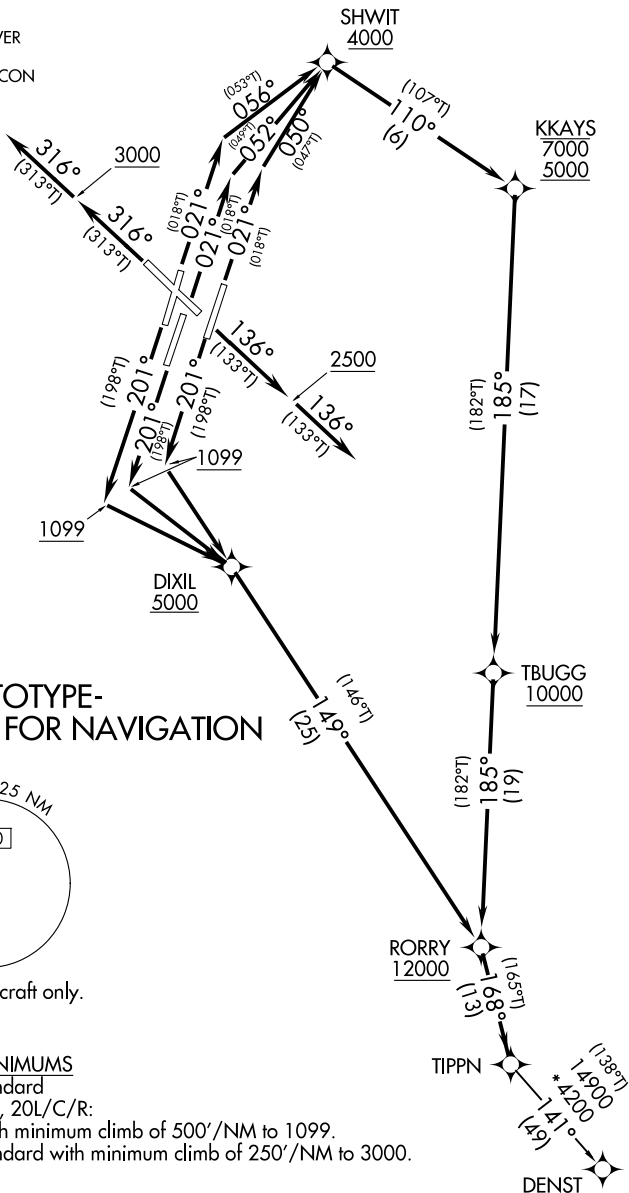
Purpose: This memorandum waives FAA Order 8260.58C, United States Standard for Performance Based Navigation (PBN) Instrument Procedure Design, paragraph 1-2-5.c.(3) and authorizes use of a maximum bank angle of 23 degrees above FL195 up to FL245 and a maximum bank angle of 16 degrees above FL245.

This waiver remains in effect until rescinded. No additional waiver request action is required. Please direct all inquiries to Thomas J. Nichols, Standards Section Manager, Flight Procedures and Airspace Group at 405-954-1171 or thomas.j.nichols@faa.gov

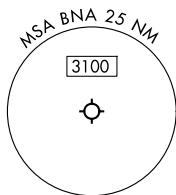
NASHVILLE INTL (BNA)
NASHVILLE, TENNESSEE

D-ATIS 135.1
CLNC DEL 126.05
CPDLC
GND CON
121.9 348.6
NASHVILLE TOWER
118.6 257.8
NASHVILLE DEP CON
118.4 360.7

TOP ALTITUDE:
15000



PROTOTYPE-
NOT FOR NAVIGATION



NOTE: Jet aircraft only.

TAKEOFF MINIMUMS

Rwy 13: Standard

Rwys 2L/C/R, 20L/C/R:

Standard with minimum climb of 500'/NM to 1099.

Rwy 31: Standard with minimum climb of 250'/NM to 3000.

(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

TIPPN FOUR DEPARTURE (RNAV)

NASHVILLE, TENNESSEE
NASHVILLE INTL (BNA)

(TIPPN4.TIPPN) FIG



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2L: Climb on heading 021° to intercept course 056° to cross SHWIT at or above 4000, then on track 110° to cross KKAYS between 5000 and 7000, then on track 185° to cross TBUGG at or above 10000, then on track 185° to cross RORRY at or above 12000, thence...

TAKEOFF RUNWAY 2C: Climb on heading 021° to intercept course 052° to cross SHWIT at or above 4000, then on track 110° to cross KKAYS between 5000 and 7000, then on track 185° to cross TBUGG at or above 10000, then on track 185° to cross RORRY at or above 12000, thence...

TAKEOFF RUNWAY 2R: Climb on heading 021° to intercept course 050° to cross SHWIT at or above 4000, then on track 110° to cross KKAYS between 5000 and 7000, then on track 185° to cross TBUGG at or above 10000, then on track 185° to cross RORRY at or above 12000, thence...

TAKEOFF RUNWAY 13: Climb on heading 136° to 2500, then on heading 136° or as assigned by ATC for RADAR vectors to cross RORRY at or above 12000, thence...

TAKEOFF RUNWAY 20L/C/R: Climb on heading 201° to 1099, then direct to cross DIXII at or above 5000, then on track 149° to cross RORRY at or above 12000, thence...

TAKEOFF RUNWAY 31: Climb on heading 316° to 3000, then on heading 316° or as assigned by ATC for RADAR vectors to cross RORRY at or above 12000, thence...

...on track 168° to TIPPN. Maintain 15000. Expect filed altitude 10 minutes after departure.

DENST TRANSITION (TIPPN4.DENST)

PROTOTYPE-NOT FOR NAVIGATION

(TIPPN3.TIPPN) 18088

AL-282 (FAA)

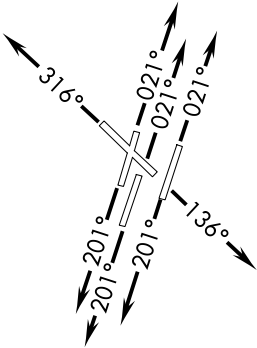
TIPPN THREE DEPARTURE (RNAV)

EXISTING

NASHVILLE INTL (BNA)
NASHVILLE, TENNESSEE

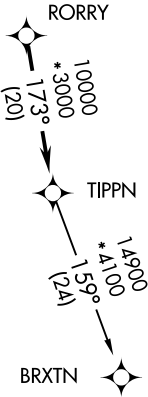
D-ATIS 135.1
CLNC DEL 126.05
CPDLC
GND CON
121.9 348.6
NASHVILLE TOWER
118.6 257.8
NASHVILLE DEP CON
118.4 360.7

TOP ALTITUDE:
4000



TAKEOFF MINIMUMS:
Rwys 2C, 2L, 2R, 13, 20C, 20L,
20R, 31: Standard with minimum
climb of 500' per NM to 1100.

- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV 1.
- NOTE: Radar required.
- NOTE: For Turbojet aircraft only.
- NOTE: Transponder code will be issued via PDC or
Nashville clearance delivery.
- NOTE: If unable to accept climb rates, advise ATC
on initial contact.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

- TAKEOFF RWYS 2L/C/R: Climb heading 021° or assigned ATC heading, thence....
- TAKEOFF RWY 13: Climb heading 136° or assigned ATC heading, thence....
- TAKEOFF RWYS 20L/C/R: Climb heading 201° or assigned ATC heading, thence....
- TAKEOFF RWY 31: Climb heading 316° or assigned ATC heading, thence....

....expect radar vectors to RORRY, then on track 173° to TIPPN. Maintain 4000,
expect clearance to filed altitude within five (5) minutes after departure.

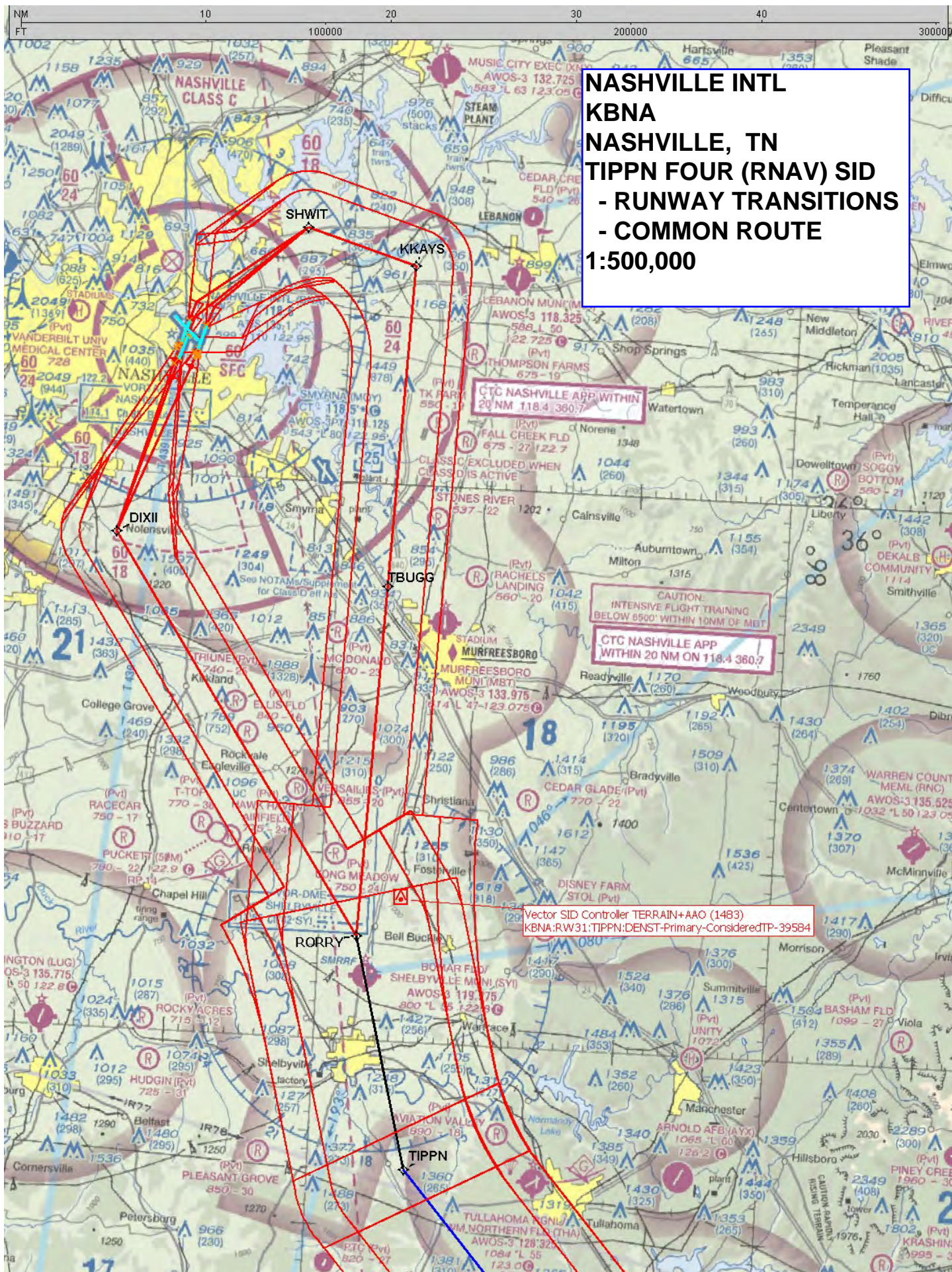
BRXTN TRANSITION (TIPPN3.BRXTN)

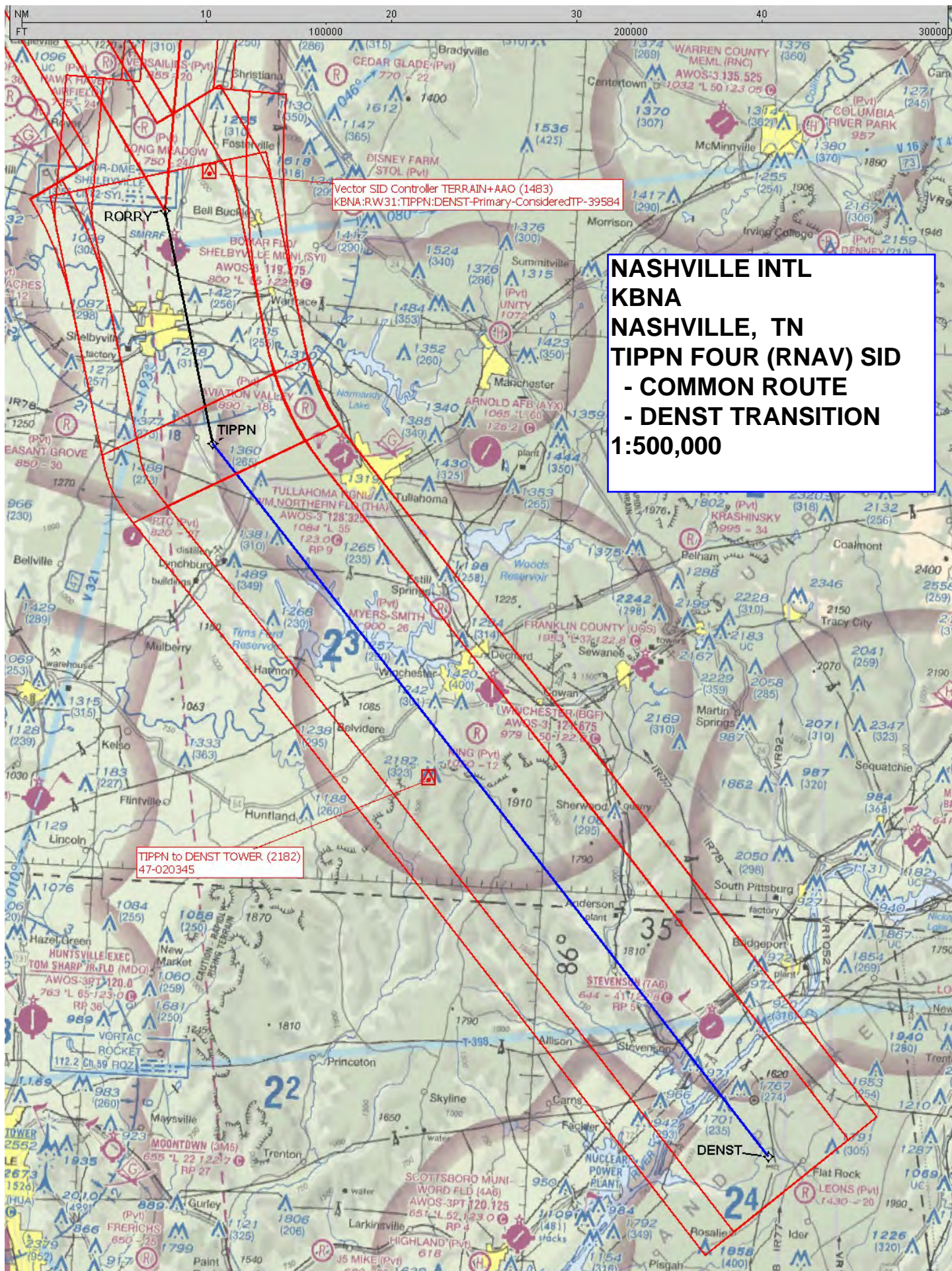
TIPPN THREE DEPARTURE (RNAV)
(TIPPN3.TIPPN) 25JUN15

NASHVILLE, TENNESSEE
NASHVILLE INTL (BNA)

SE-1, 20 MAR 2025 to 17 APR 2025

SE-1, 20 MAR 2025 to 17 APR 2025



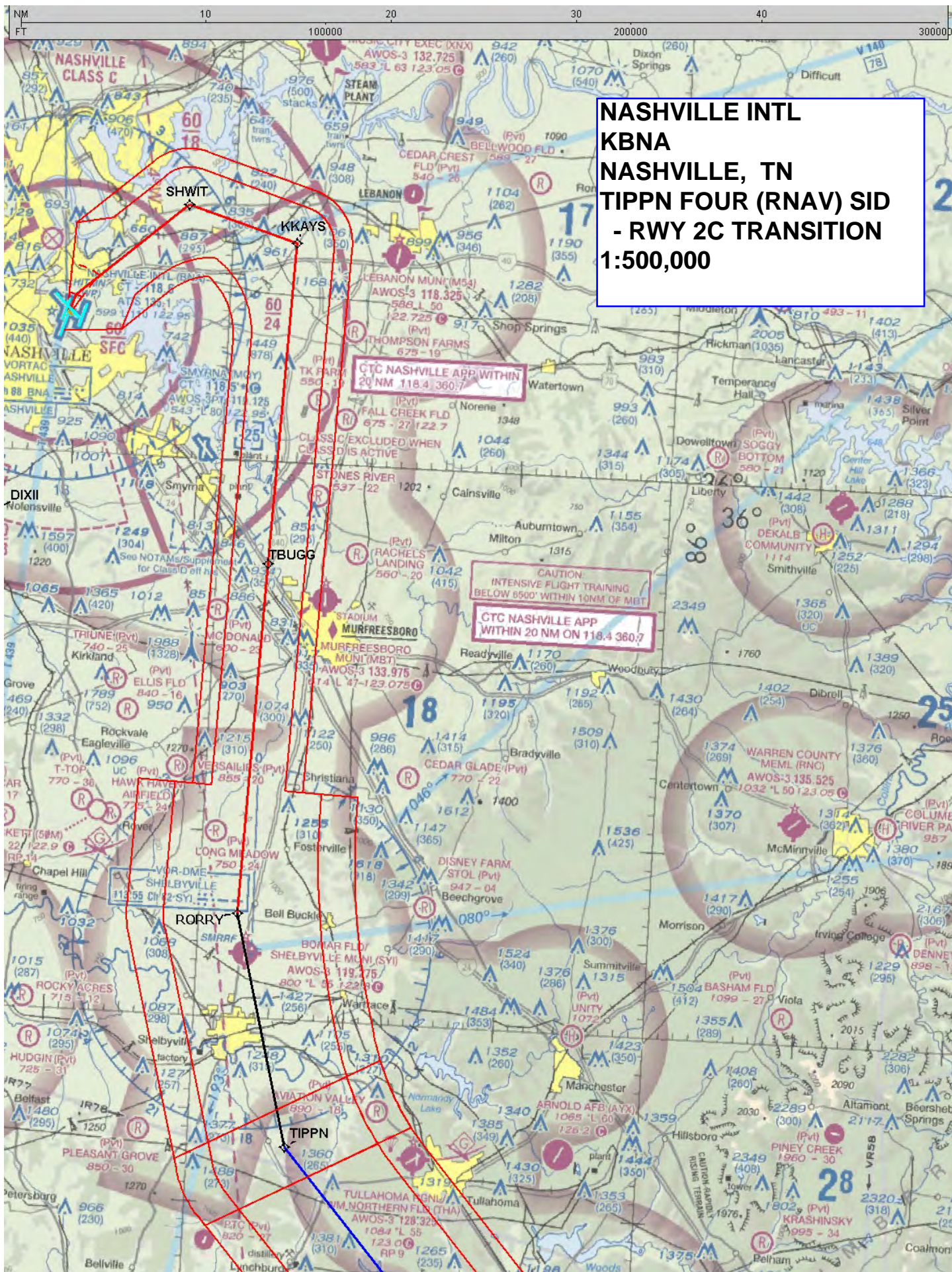


Vector SID Controller TERRAIN+AAO (1483)
KBNA:RW31:TIPPN:DENST-Primary-ConsideredTP-39584

**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- COMMON ROUTE
- DENST TRANSITION
1:500,000**

TIPPN to DENST TOWER (2182)
47-020345

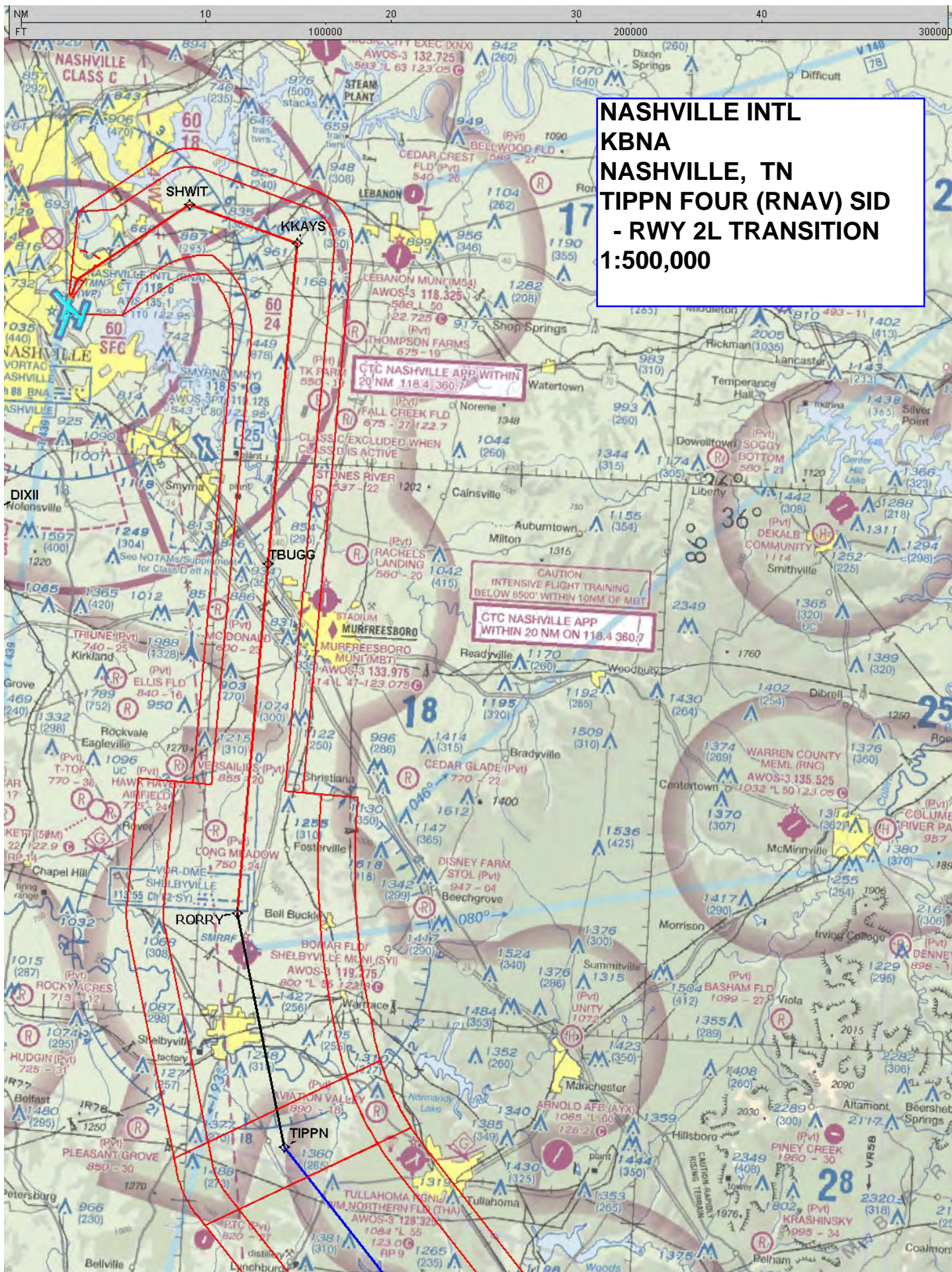
DENST



**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPEN FOUR (RNAV) SID
- RWY 2C TRANSITION
1:500,000**

**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 2C TRANSITION
1:100,000**

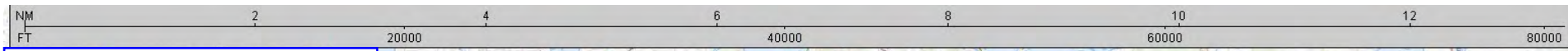
**LOW CLOSE-IN
SEE 8260-15A**



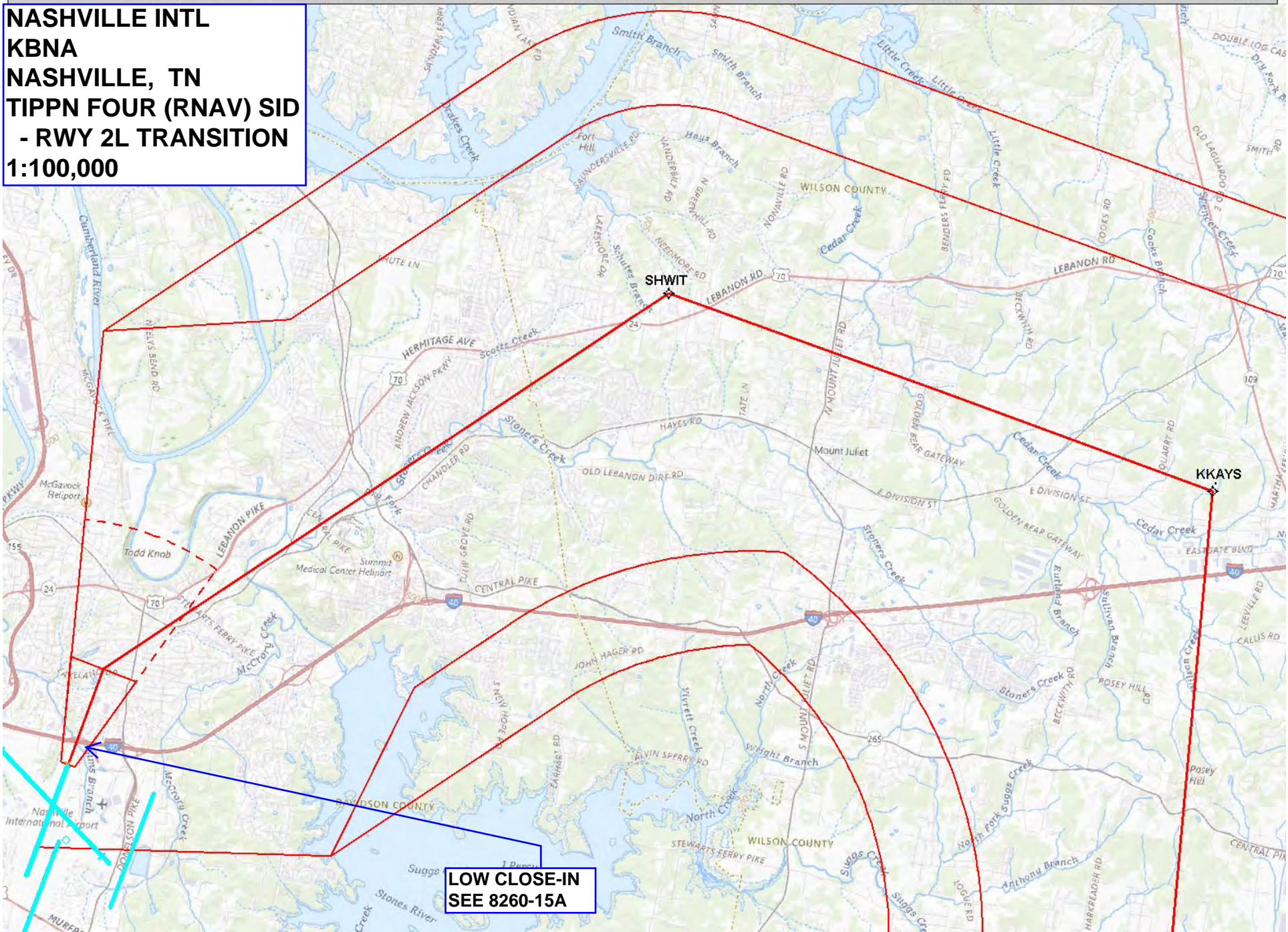
**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPEN FOUR (RNAV) SID
- RWY 2L TRANSITION
1:500,000**

**CAUTION
INTENSIVE FLIGHT TRAINING
BELOW 6500' WITHIN 10NM OF MBT
GTC NASHVILLE APP
WITHIN 20 NM ON 118.4 360.7**

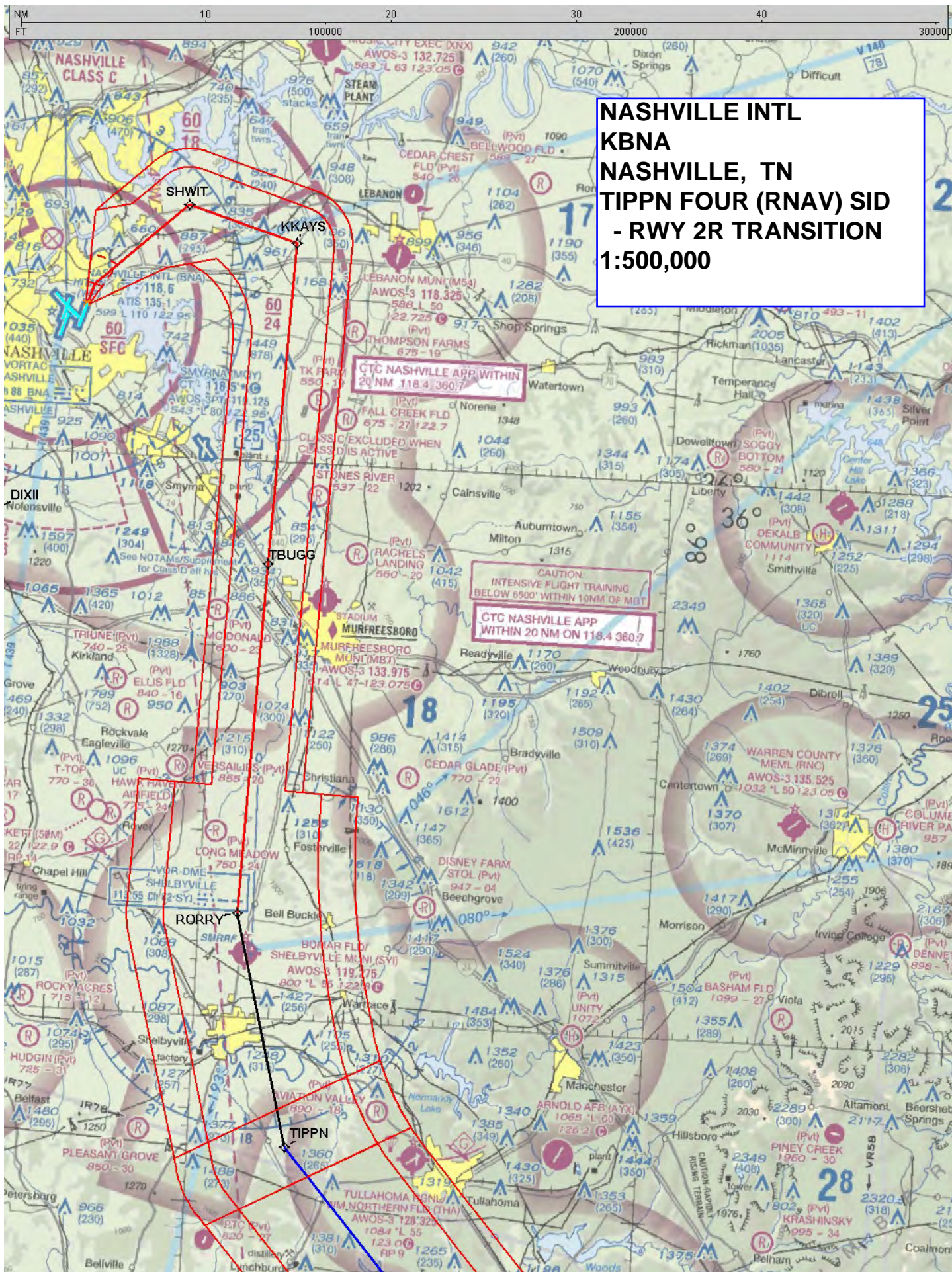
**GTC NASHVILLE APP WITHIN
20 NM 118.4 360.7**



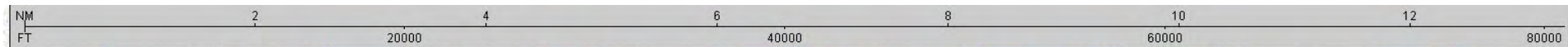
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KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 2L TRANSITION
1:100,000**



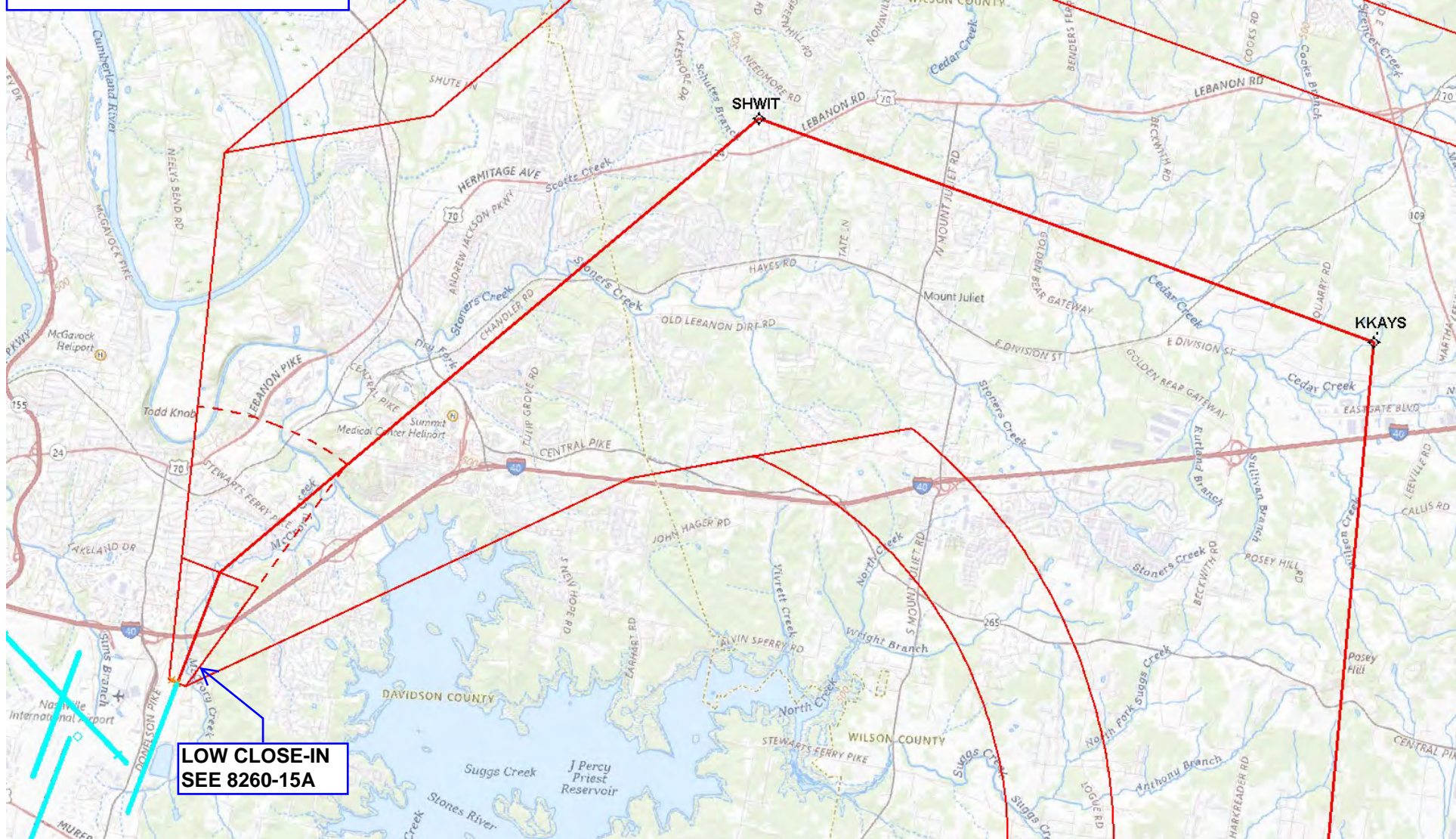
**LOW CLOSE-IN
SEE 8260-15A**



**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPEN FOUR (RNAV) SID
- RWY 2R TRANSITION
1:500,000**



**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 2R TRANSITION
1:100,000**



**LOW CLOSE-IN
SEE 8260-15A**

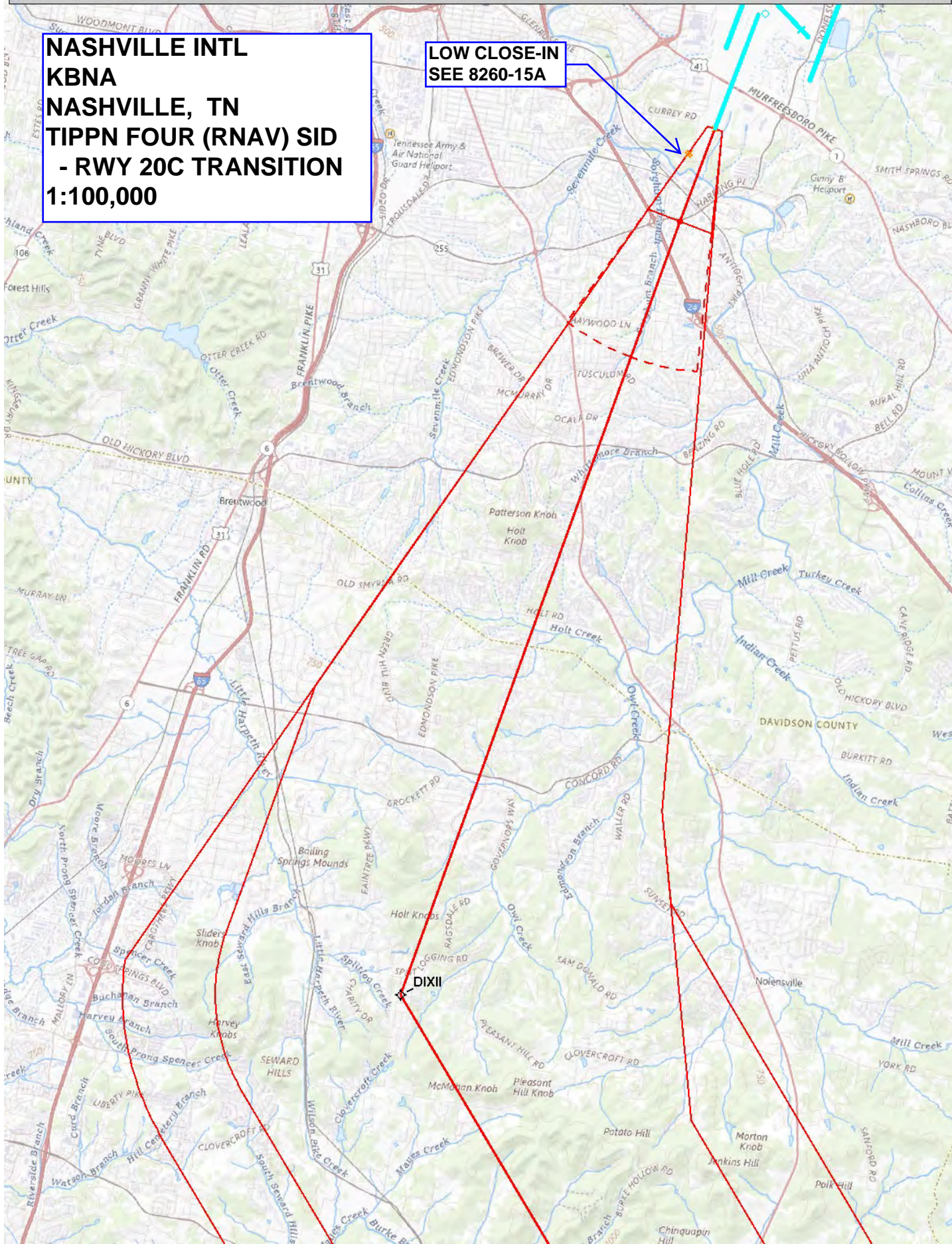


**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 20C TRANSITION
1:500,000**



**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 20C TRANSITION
1:100,000**

**LOW CLOSE-IN
SEE 8260-15A**

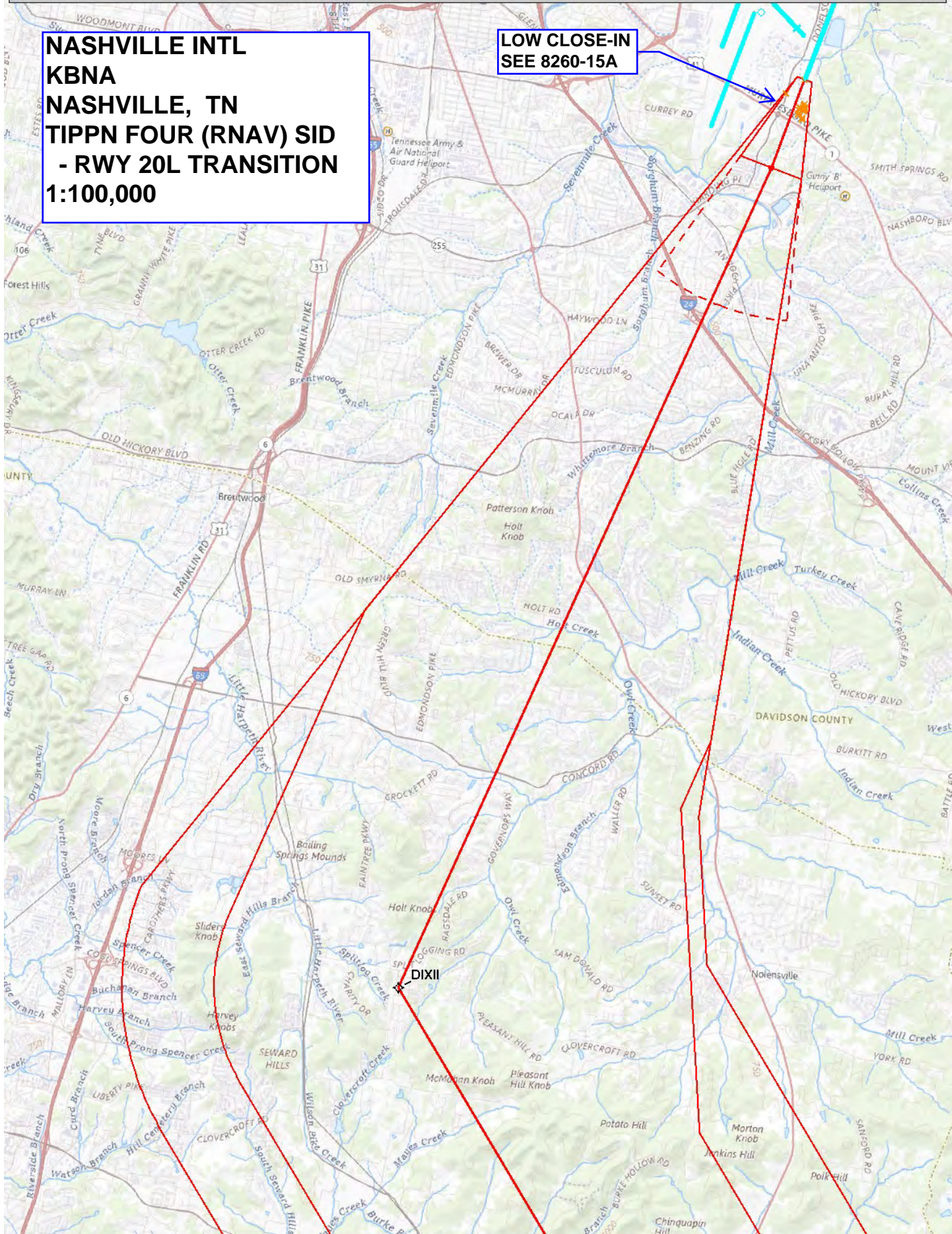


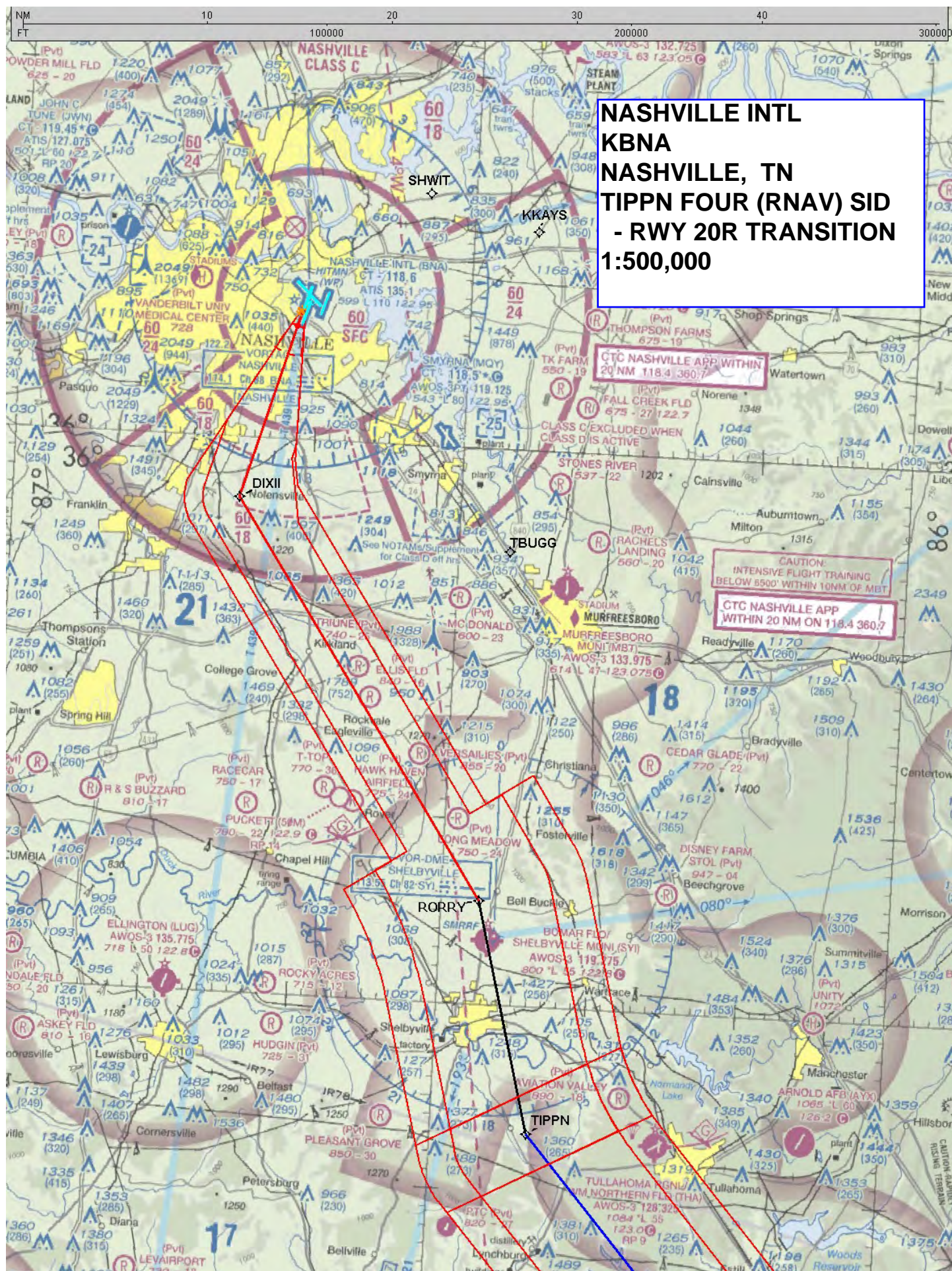




**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 20L TRANSITION
1:100,000**

**LOW CLOSE-IN
SEE 8260-15A**

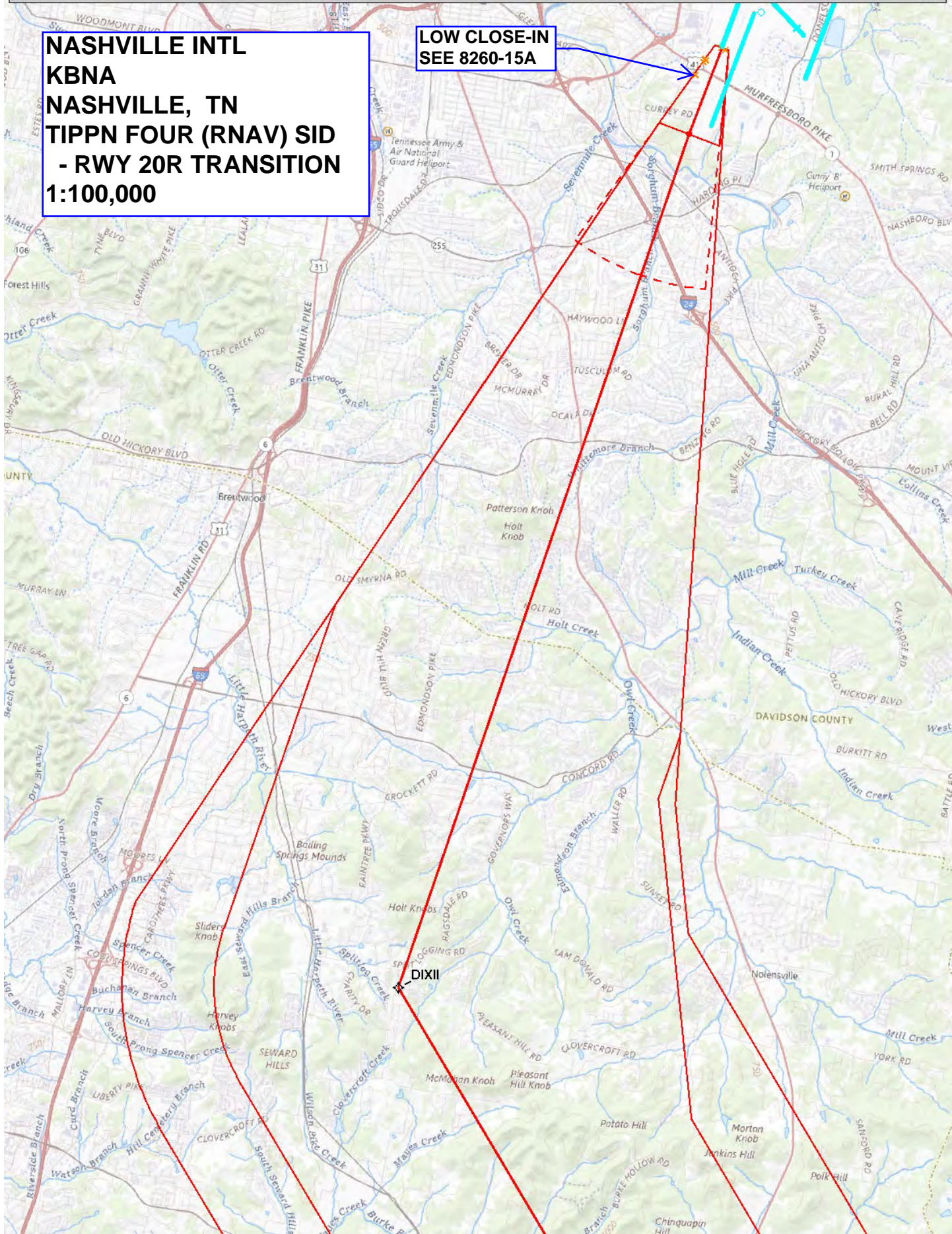


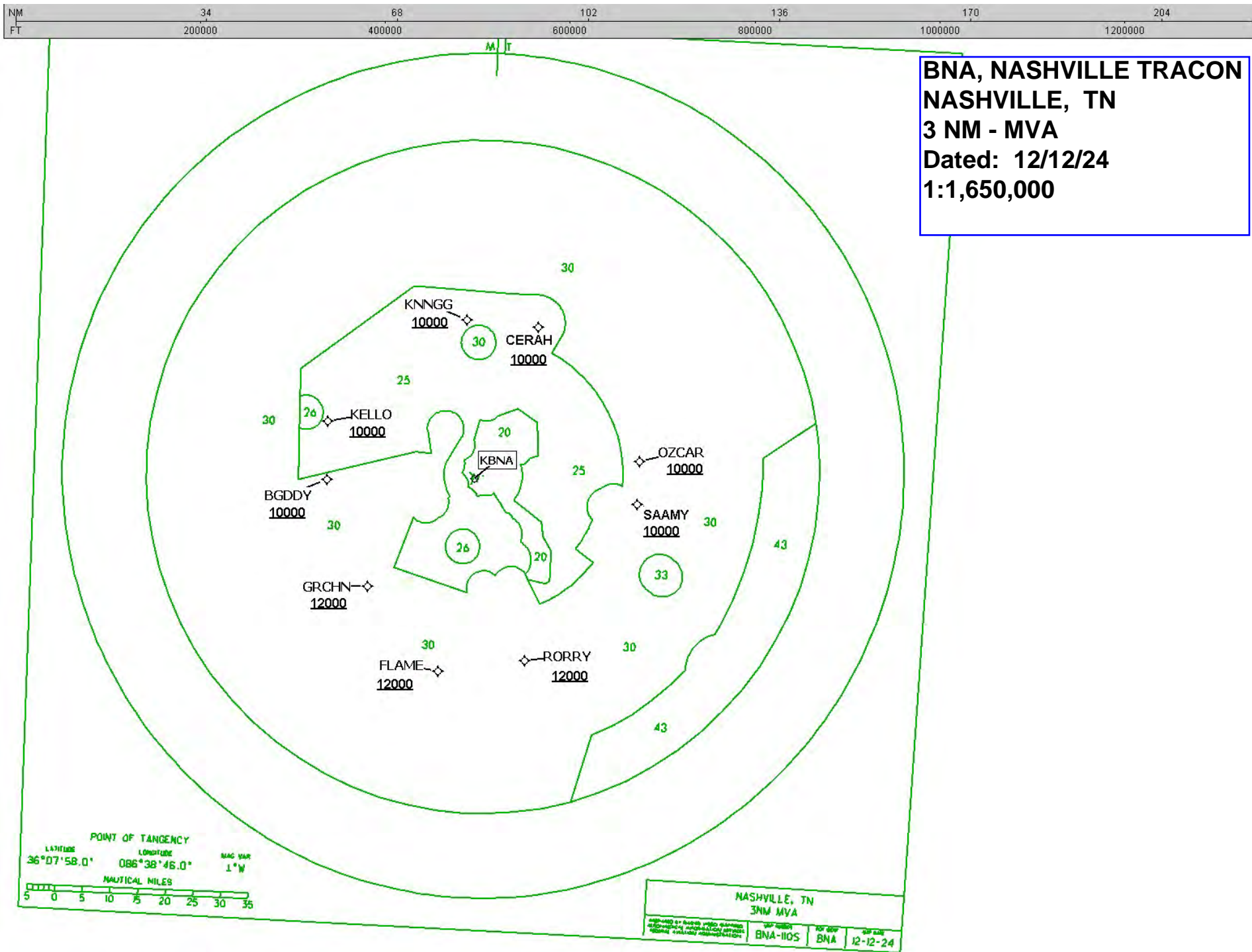


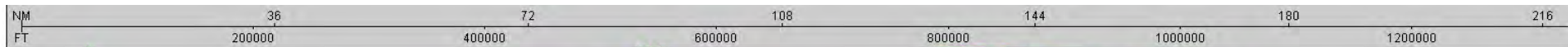


**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 20R TRANSITION
1:100,000**

**LOW CLOSE-IN
SEE 8260-15A**



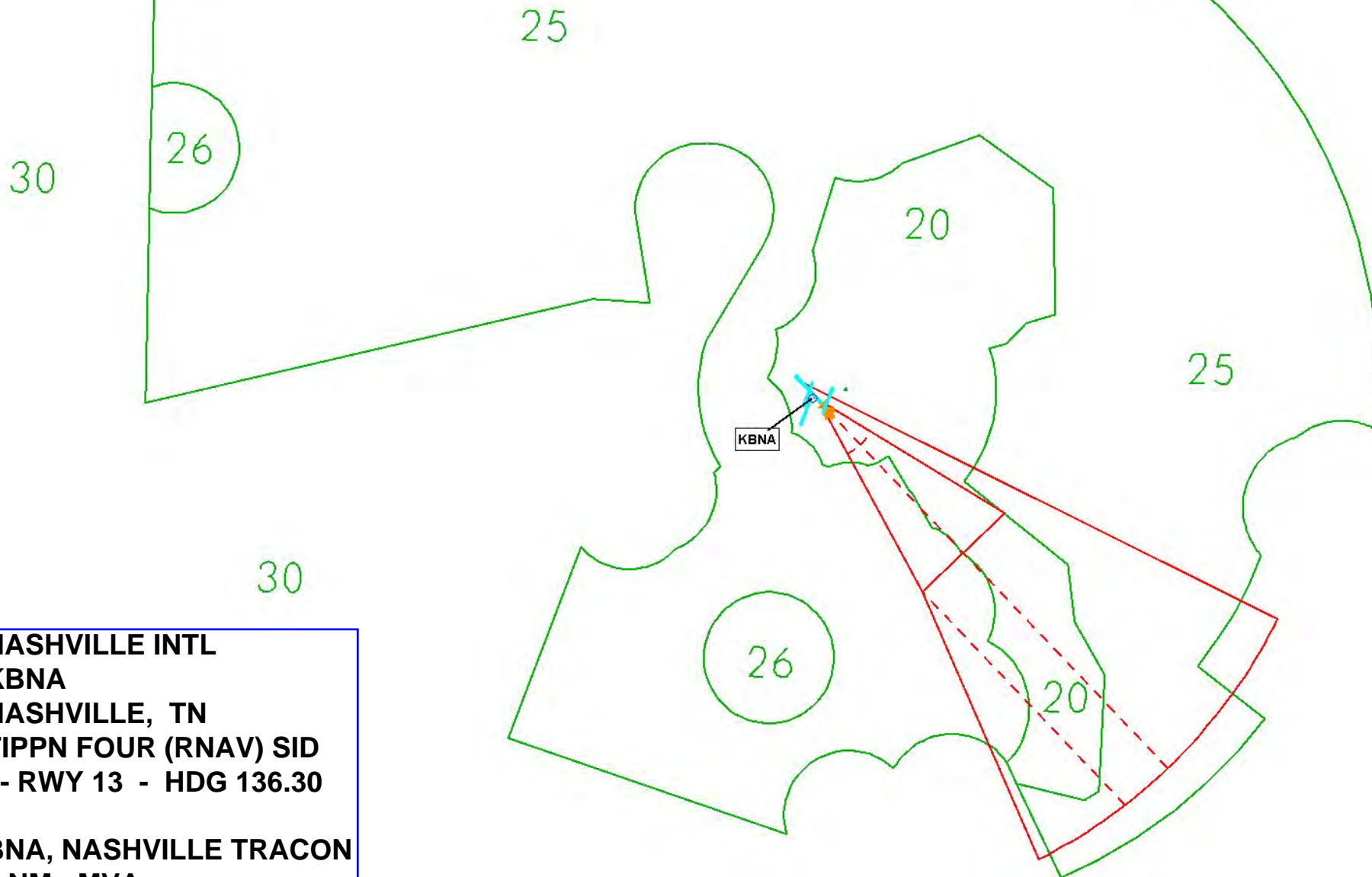
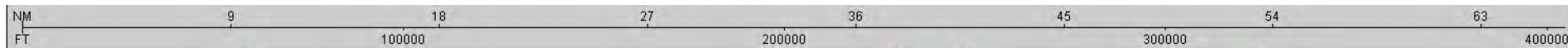




BNA, NASHVILLE TRACON
NASHVILLE, TN
5 NM - MVA
Dated: 12/12/24
1:1,650,000

POINT OF TANGENCY
LATITUDE 36°07'58.0"
LONGITUDE 086°38'46.0"
MAG VAR 1°N
NAUTICAL MILES
5 0 5 10 15 20 25 30 35

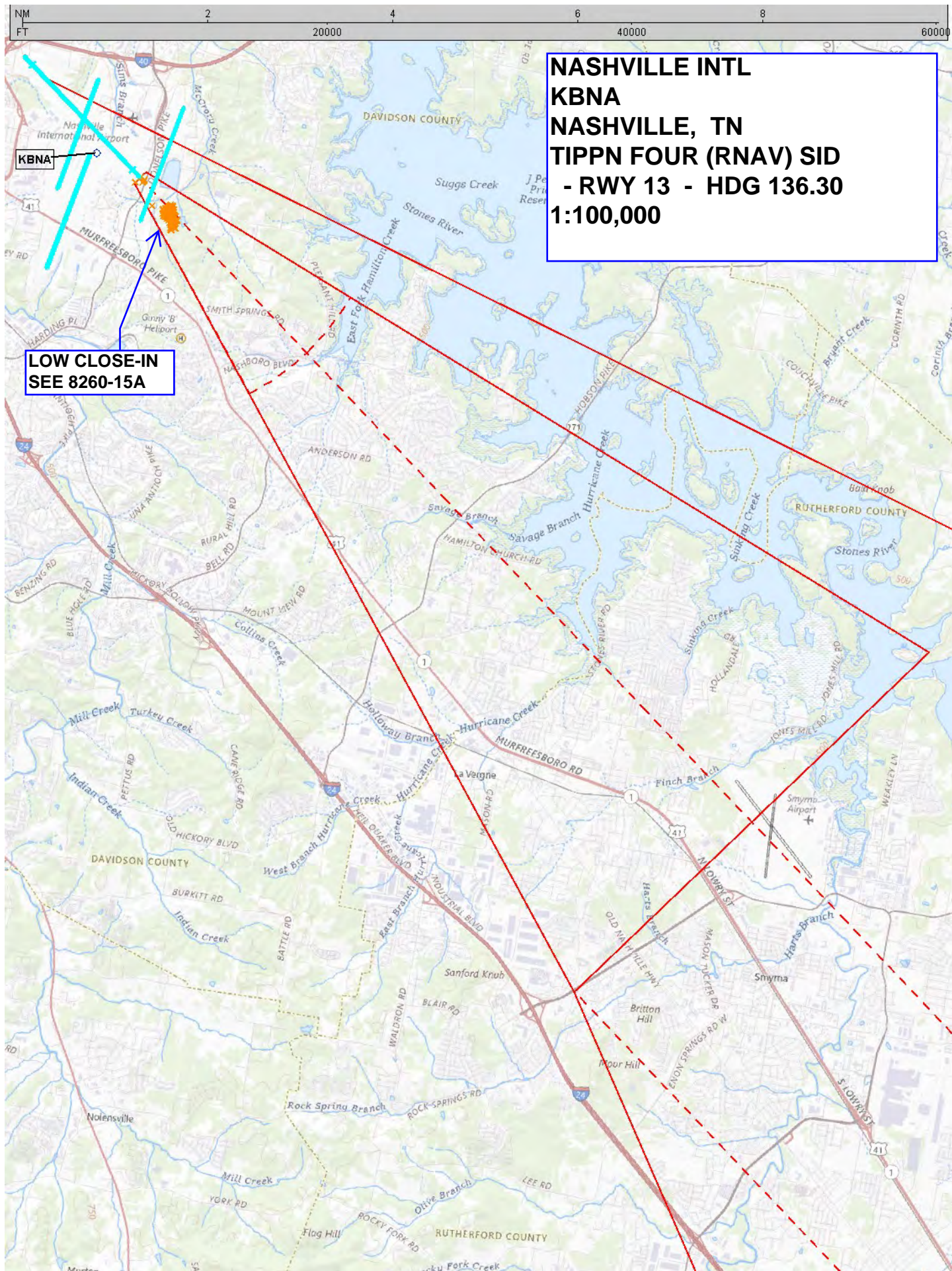
NASHVILLE, TN
5NM MVA
BNA-109S
BNA
12-12-24



NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 13 - HDG 136.30

BNA, NASHVILLE TRACON
3 NM - MVA
Dated: 12/12/24
1:500,000

[illegible]



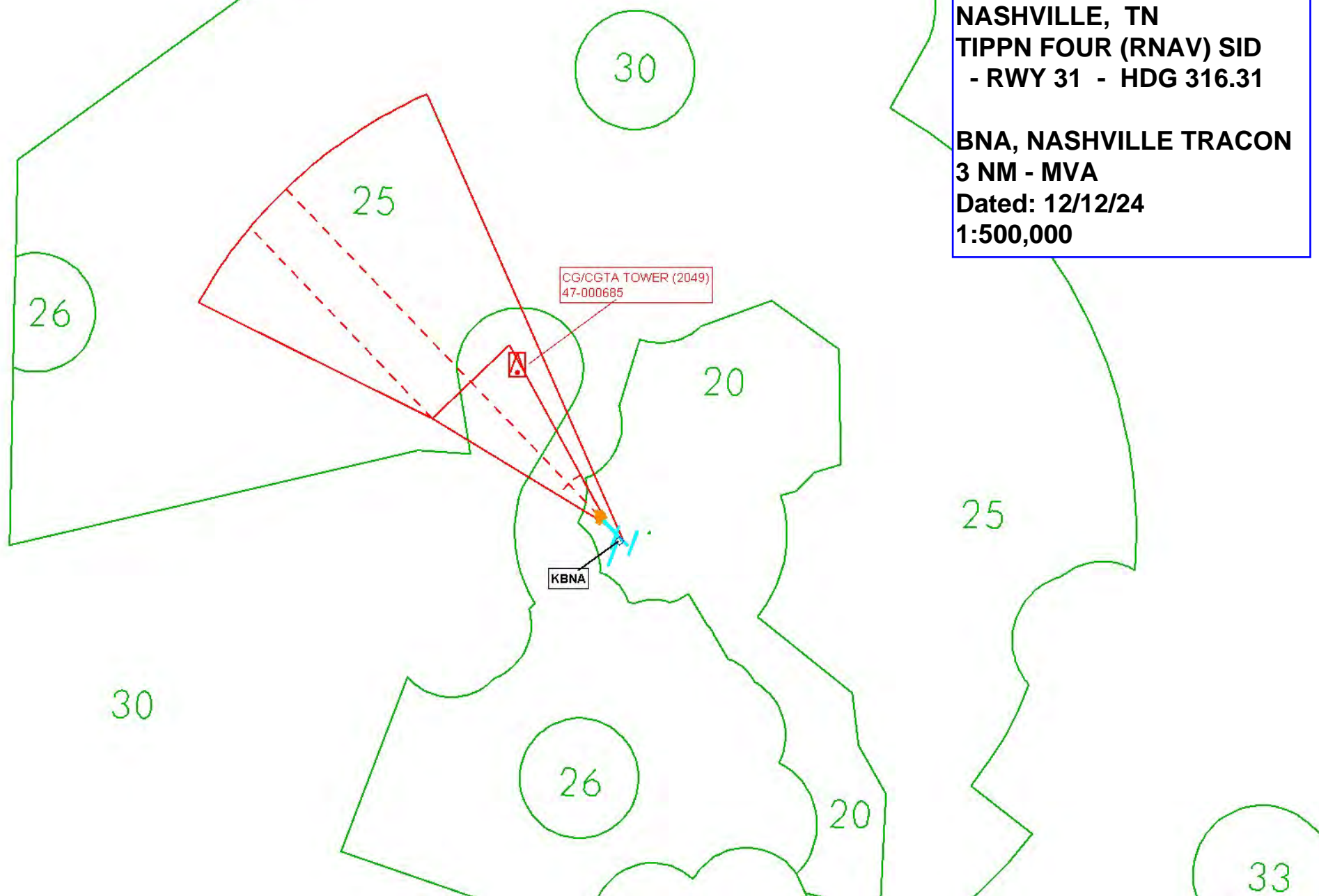
**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 13 - HDG 136.30
1:100,000**

**LOW CLOSE-IN
SEE 8260-15A**

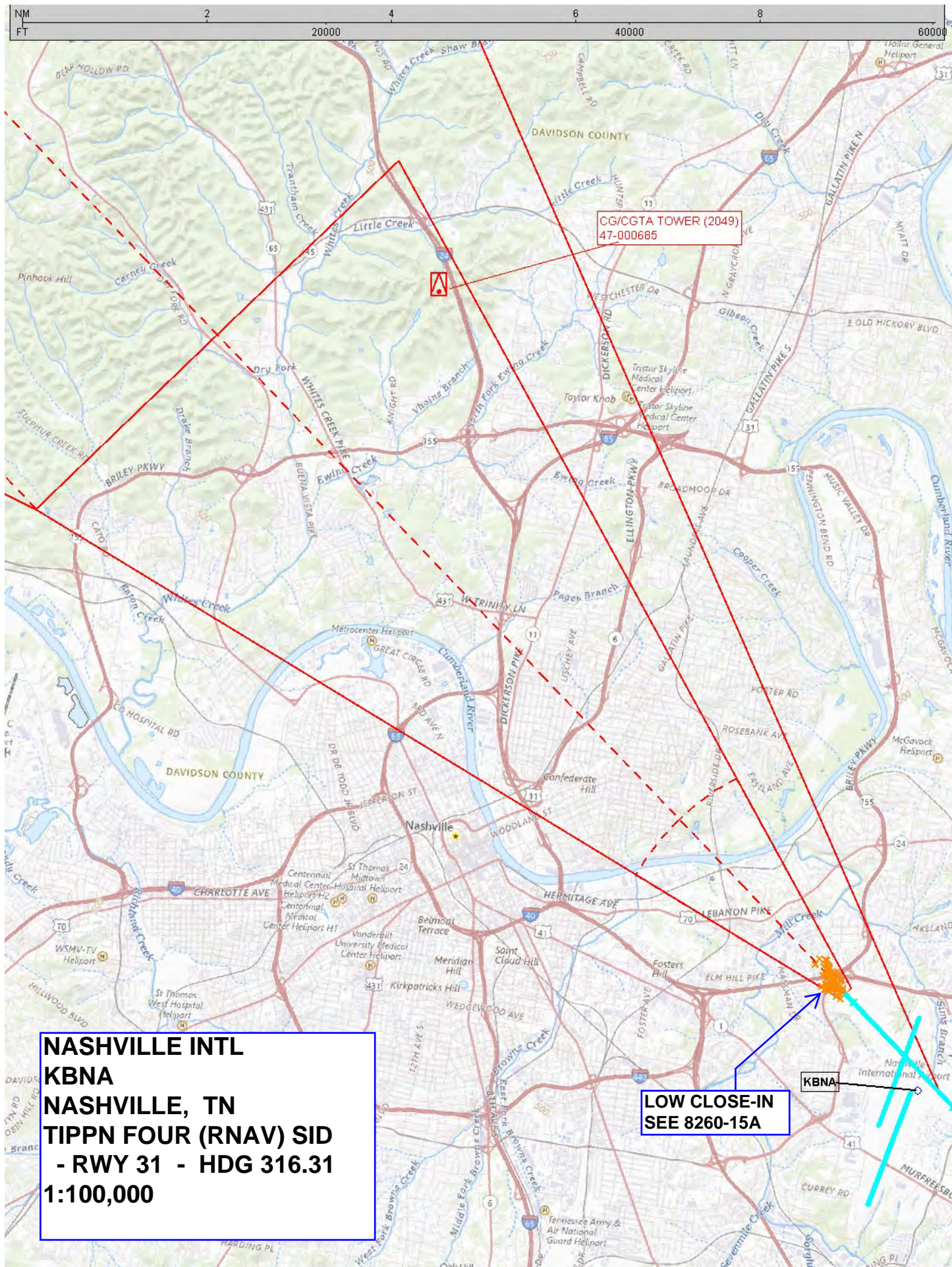


**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 31 - HDG 316.31**

**BNA, NASHVILLE TRACON
3 NM - MVA
Dated: 12/12/24
1:500,000**







**NASHVILLE INTL
KBNA
NASHVILLE, TN
TIPPN FOUR (RNAV) SID
- RWY 31 - HDG 316.31
1:100,000**

**LOW CLOSE-IN
SEE 8260-15A**

KBNA