

Flight Procedures Cover Page	Task Action: FLIGHT CHECK	Task Type: STAR	Estimated Chart Date: 05/14/2026	APWS Task ID: A077BF3A92B14117A9C0D51FEFC4DF7B	APWS Project ID: 110BF7A96EE840A58E256F71CAA6B0BF
Procedure: STAR CLANG ONE (RNAV)		Enroute: YES	Specialist: Prassada, Parnell		Agreement Number:
Airport ID: KTYQ			Airport City: INDIANAPOLIS		State: IN
Facility ID:	Facility Type:	Flight Inspection Remark Type: New FC Slot			

Procedure Comments:

ACTIVE DATA USED.

ORIGINAL RNAV ARRIVAL PROCEDURE.

WAIVER (1): NO ALTITUDE ESTABLISHED ON THE COMMON ROUTE.

FC REMARK: KMZ: DOES NOT REFLECT HOLDING CONTROLLING OBSTACLE; SEE STATIC MAP.

CONTACT: CASIMIR TABAKA, AJV-A432, (405) 954-7931.

01/20/26: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/12/25.

1. 8260-1: BLOCK 1: CHANGED STATE FROM IA TO IN.
2. 8260-1: BLOCK 3: ADDED KEYE, KGEY, KHFY, KMQJ, KTYQ, KUMP.
3. 8260-1: BLOCK 4: REPLACED "IAW 7110.65 4-5-6 AND 5-6-1" WITH "IAW FAA ORDER 8260.3, PARA 2-2-7 (F) (2)."



8260-2 FORT WAYNE VORTAC

03/23/2026: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/11/2025.

FIX USE: REMOVED V221



12/11/2025



FIPC DME/DME FORM

PROCEDURE: CLANG (RNAV) ONE ARRIVAL		AIRPORT NAME: INDIANAPOLIS EXEC		AIRPORT ID: KTYQ	SPECIAL CONTROL NO: BG-01-152-26
FAC ID: CLANG1		CITY: INDIANAPOLIS		ST: IN	ORIG CHART DATE: 05/14/2026
DFL TYPE: PROC/D	THIRD PARTY: <input type="checkbox"/> YES	EST. TIME ON SITE: 1.0	REIMB. NUMBER:	PTS TASK ID: A077BF3A92B14117A9C0D51FEFC4DF7B	

PREFLIGHT NOTES

REVIEWER:	DATE:
COMMENTS:	CHECK ONE: <input type="checkbox"/> FLT CK REQ <input type="checkbox"/> NFCR <input type="checkbox"/> REJECT
	YES NO
	CPV COMPLETE? <input checked="" type="checkbox"/> X <input type="checkbox"/>

PROCEDURE RESULTS

INSPECTION DATE: 03/12/2026	CREW #: VN329	N #: N83	INSTRUMENT PROCEDURE STATUS: <input checked="" type="checkbox"/> SAT <input type="checkbox"/> SAT W/CHANGES <input type="checkbox"/> UNSAT	ARINC CODING: <input type="checkbox"/> SAT <input type="checkbox"/> SAT/GOLD <input type="checkbox"/> UNSAT
FLIGHT INSPECTOR SIGNATURE: glen b freeman @ 03/12/2026 20:04		PRINTED NAME: FREEMAN, GLEN BURSON		NOTAM INITIATED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

FLIGHT INSPECTOR REMARKS:
BG-01-152-26, INDIANAPOLIS EXEC, INDIANAPOLIS,IN, CLANG (RNAV) ONE ARRIVAL completed Satisfactory as proposed.

DME/DME STATUS: <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT	SPECIALIST SIGNATURE: lisa a-ctr thrysoe @ 03/16/2026 11:21	PRINTED NAME: Lisa Thrysoe
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SPECIALIST REMARKS:
No Post Flight DME/DME Analysis is required on the KTYQ CLANG1 SID. No electronic data recorded during the inspection.

IN-FLIGHT OBSTACLE REPORT

OBSTRUCTION ID #:	COORDINATES OR LOCATION:	GNSS ALTITUDE (MSL):	BAROMETRIC ALTITUDE (MSL):	HEIGHT ABOVE GROUND LEVEL:
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FIPC DME/DME FORM

PROCEDURE: CLANG (RNAV) ONE ARRIVAL		AIRPORT NAME: INDIANAPOLIS EXEC		AIRPORT ID: KTYQ	SPECIAL CONTROL NO: BG-01-152-26
FAC ID: CLANG1		CITY: INDIANAPOLIS		ST: IN	ORIG CHART DATE: 05/14/2026
DFL TYPE: PROC/D	THIRD PARTY: <input type="checkbox"/> YES	EST. TIME ON SITE: 1.0	REIMB. NUMBER:	PTS TASK ID: A077BF3A92B14117A9C0D51FEFC4DF7B	

PREFLIGHT NOTES

REVIEWER:	DATE:
COMMENTS:	CHECK ONE: <input type="checkbox"/> FLT CK REQ <input type="checkbox"/> NFCR <input type="checkbox"/> REJECT
	YES NO
	CPV COMPLETE? <input checked="" type="checkbox"/> X <input type="checkbox"/>

PROCEDURE RESULTS

INSPECTION DATE: 03/12/2026	CREW #: VN329	N #: N83	INSTRUMENT PROCEDURE STATUS: <input checked="" type="checkbox"/> SAT <input type="checkbox"/> SAT W/CHANGES <input type="checkbox"/> UNSAT	ARINC CODING: <input type="checkbox"/> SAT <input type="checkbox"/> SAT/GOLD <input type="checkbox"/> UNSAT
FLIGHT INSPECTOR SIGNATURE: glen b freeman @ 03/12/2026 20:04		PRINTED NAME: FREEMAN, GLEN BURSON		NOTAM INITIATED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

FLIGHT INSPECTOR REMARKS:
BG-01-152-26, INDIANAPOLIS EXEC, INDIANAPOLIS,IN, CLANG (RNAV) ONE ARRIVAL completed Satisfactory as proposed.

DME/DME STATUS: <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT	SPECIALIST SIGNATURE:	PRINTED NAME:
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SPECIALIST REMARKS:

IN-FLIGHT OBSTACLE REPORT

OBSTRUCTION ID #:	COORDINATES OR LOCATION:	GNSS ALTITUDE (MSL):	BAROMETRIC ALTITUDE (MSL):	HEIGHT ABOVE GROUND LEVEL:
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1. FLIGHT PROCEDURE IDENTIFICATION:

INDIANAPOLIS, IN
TYQ
CLANG ARRIVAL (RNAV)

2. WAIVER REQUIRED AND APPLICABLE STANDARD:

To not publish or code any altitudes on the procedure. IAW FAA Order 8260.3, para 2-2-7 (F) (2), a Minimum or Mandatory Altitude must be established on the Common Route or Runway Transition "if the STAR authorizes radar vectors after the termination fix and does not join an approach, then the altitude authorized at the termination fix should be a mandatory altitude. FS approval is required if no altitude is established due to an operational need."

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

a. CLANG ONE Arrival will serve KEYE, KGEY, KHFY, KMQJ, KTYQ, KUMP, and runway configurations within INDIANAPOLIS TRACON airspace. The TRACON utilizes varying altitude restrictions to all airports based on dynamic traffic situations. Additionally, the procedure authorizes differing aircraft types, thus introducing different performance characteristics from one aircraft to another. CLANG ONE is not a descend via procedure and ATC will issue CROSS (FIX) AT AND MAINTAIN or DESCEND AND MAINTAIN clearances to control the flow of traffic.

b. Confusion could arise from the procedure being coded with an altitude on the Common Route, which serves multiple airports with mixed aircraft types and differing performance characteristics. This can also create additional workload for ATC when the issued altitude is different from the coded restriction on the procedure. Coding two different altitudes in one procedure is prohibited according to design criteria.

4. EQUIVALENT LEVEL OF SAFETY PROVIDED:

a. IAW FAA Order 8260.3, para 2-2-7 (F) (2) requires altitude assignments above the minimum IFR Altitude/Minimum Vectoring Altitude (MIA/MVA).

b. With RADAR required and ATC issuing a "CROSS (FIX) AT AND MAINTAIN" or "DESCEND AND MAINTAIN" clearance for all aircraft ensures the requirements are met. These altitudes provide obstacle clearance, communication, and navigable facility requirements for aircraft to utilize. When radio communications are in use, ATC will provide appropriate altitudes for separation, including obstacle clearance.

c. The MVA at the termination fix CLANG is 3000 ft MSL. The lowest altitude that will be assigned by ATC at CLANG will be 3000 MSL.

5. ALTERNATIVE ACTIONS DEEMED NOT FEASIBLE:

Designing a STAR with coded altitudes was considered but deemed not feasible. Establishing coded altitudes on this STAR Common Route restricts ATC's ability to dynamically assign altitudes based on traffic scenarios. A procedure with one coded altitude restriction on the Common Route that authorizes mixed aircraft performance characteristics and for landing at numerous airports may create confusion and questions for pilots. This will lead to a significant workload increase for both ATC and pilots.

6. COORDINATION WITH USER ORGANIZATIONS (SPECIFY):

AFS
ZAU
ZID

7. SUBMITTED BY:

DATE	OFFICE IDENTIFICATION	TITLE
	AJV-A	MANAGER

Digitally signed by
CASIMIR L TABAKA

SIGNATURE

Jan 20, 2026

8. AFS ACTIONS:

APPROVED DISAPPROVED NOT REQUIRED

COMMENTS:

DATE ROUTING SYMBOL SIGNATURE



Federal Aviation Administration

Memorandum

Date: July 18, 2023

To: Instrument Flight Procedures Service Providers

From: Eric S. Parker, Acting Manager, Flight Technologies and Procedures
Division

Subject: Waiver to FAA Order 8260.3, United States Standard for Terminal
Instrument Procedures (TERPS), STAR Termination Altitude

This memorandum waives the requirement of FAA Order 8260.3 paragraph 2-2-7.f(2) for Flight Standards approval when, due to an operational need, an altitude is not established at the termination fix on a STAR that does not join an approach.

Establishing an altitude at the termination fix on STAR that does not join an approach is beneficial for arrival descent planning purposes and is highly encouraged where practical. We recommend consulting Flight Standards, Flight Procedures and Airspace Group early in the design phase to assist in understanding how an altitude at a termination fix benefits operators.

No additional waiver request action is required. Please direct all inquiries to the Flight Procedures and Airspace Group, Standards Section (405) 954-1139 or 9-AWA-AVS-AFS420@faa.gov.

INFORMATION ONLY

INDIANAPOLIS EXEC (KTYQ)
INDIANAPOLIS, IN
STAR CLANG ONE ARRIVAL (RNAV)
EMPTY TRANSITION
1:500,000
1 OF 3

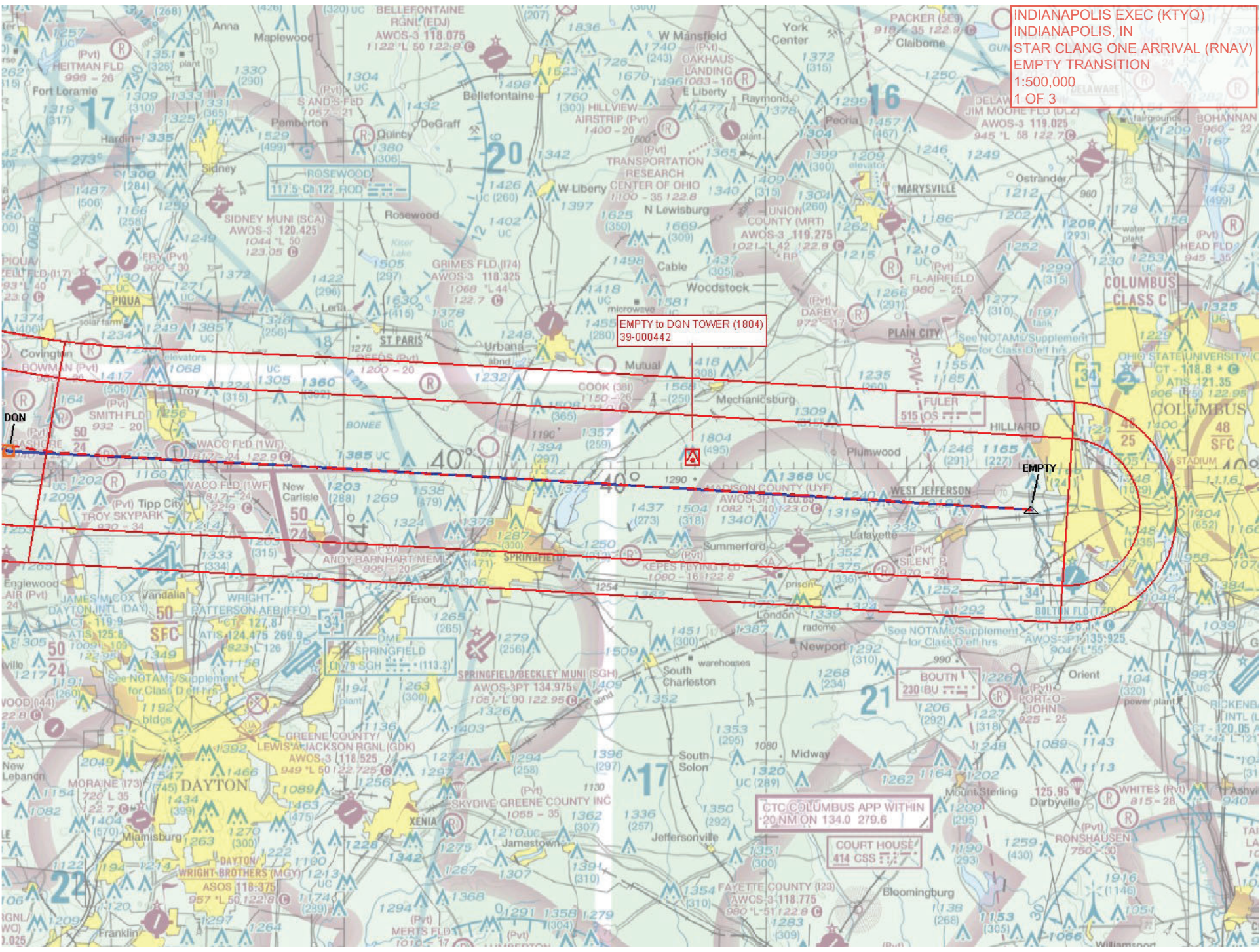
EMPTY to DQN TOWER (1804)
39-000442

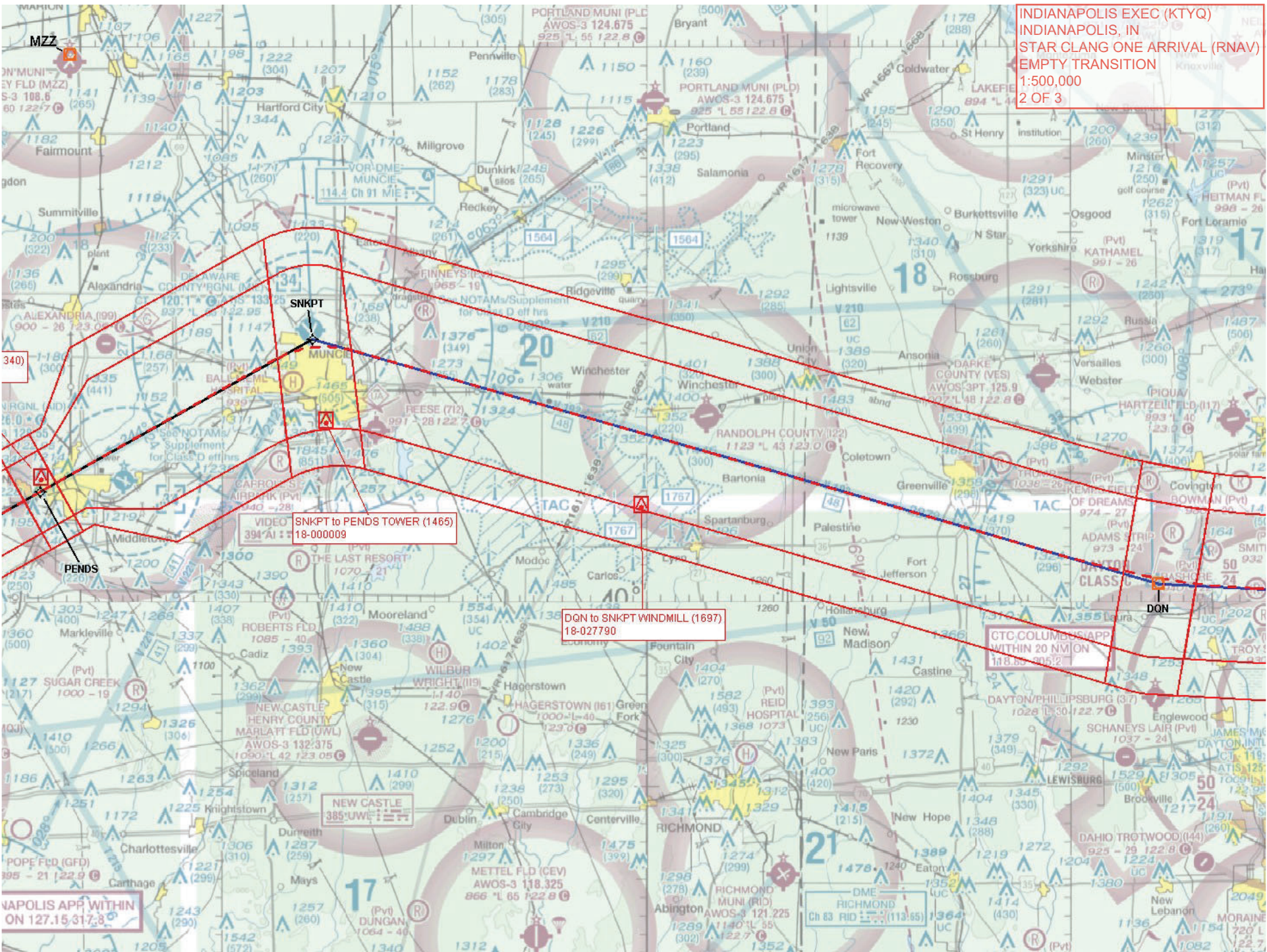
FULER
515 OS

EMPTY

CTC COLUMBUS APP WITHIN
20 NM ON 134.0 279.6

COURT HOUSE
414 CSS





INDIANAPOLIS EXEC (KTYQ)
INDIANAPOLIS, IN
STAR CLANG ONE ARRIVAL (RNAV)
EMPTY TRANSITION
1:500,000
2 OF 3

VIDEO SNKPT to PENS TOWER (1465)
394.71 : 18-000009

DQN to SNKPT WINDMILL (1697)
18-027790

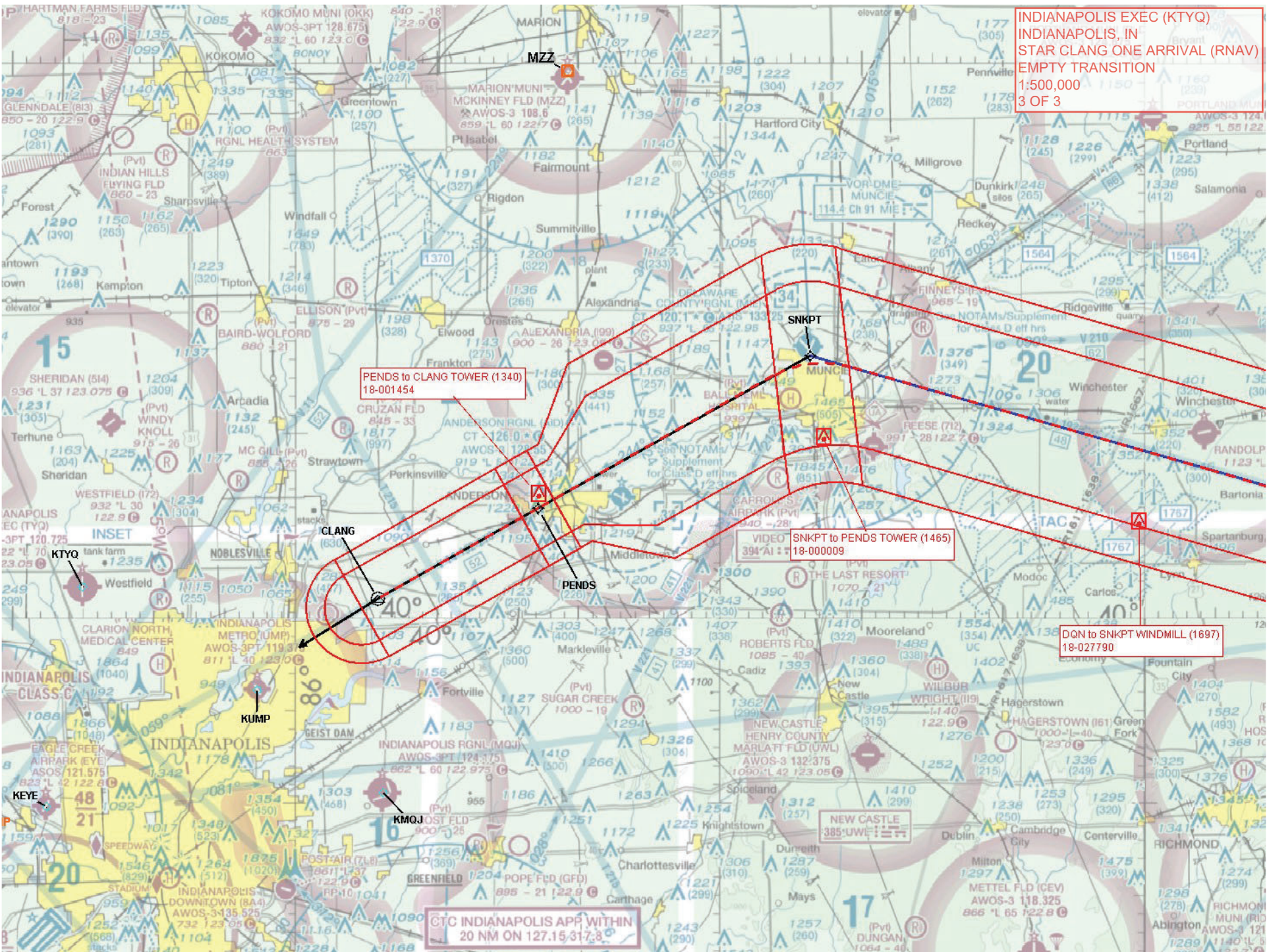
GTC COLUMBUS APP
WITHIN 20 NM ON
118.85 0052

INDIANAPOLIS APP WITHIN
ON 127.15 317.3

NEW CASTLE
385 UWC

RICHMOND
Ch 63 RID (113.85)

INDIANAPOLIS EXEC (KTYQ)
INDIANAPOLIS, IN
STAR CLANG ONE ARRIVAL (RNAV)
EMPTY TRANSITION
1:500,000
3 OF 3



PENDS TO CLANG TOWER (1340)
18-001454

VIDEO SNKPT TO PENDS TOWER (1465)
18-000009

DQN TO SNKPT WINDMILL (1697)
18-027790

CTC INDIANAPOLIS APP WITHIN
20 NM ON 127.15.31.7.8

KTYQ
INSET
INDIANAPOLIS EXEC (KTYQ)
-3PT 120.725
22° 17' 23.05"

KUMP
INDIANAPOLIS
CLASS C
INDIANAPOLIS METRO (UMP)
AWOS-3PT 119.37
811° L 40° 123.00

KMQJ
INDIANAPOLIS RGNL (MQJ)
AWOS-3PT 124.375
862° L 60° 122.975

INDIANAPOLIS
DOWNTOWN (BA4)
AWOS-3 135.575
732° L 23° 05'

INDIANAPOLIS
EXEC (KTYQ)
AWOS-3PT 128.675
832° L 60° 123.00

INDIANAPOLIS
EXEC (KTYQ)
AWOS-3PT 128.675
832° L 60° 123.00

CLANG
INDIANAPOLIS EXEC (KTYQ)
AWOS-3PT 128.675
832° L 60° 123.00

PENDS
INDIANAPOLIS EXEC (KTYQ)
AWOS-3PT 128.675
832° L 60° 123.00

KMQJ
INDIANAPOLIS RGNL (MQJ)
AWOS-3PT 124.375
862° L 60° 122.975

INDIANAPOLIS
DOWNTOWN (BA4)
AWOS-3 135.575
732° L 23° 05'

INDIANAPOLIS
EXEC (KTYQ)
AWOS-3PT 128.675
832° L 60° 123.00

INDIANAPOLIS
EXEC (KTYQ)
AWOS-3PT 128.675
832° L 60° 123.00

PENDS TO CLANG TOWER (1340)
18-001454

VIDEO SNKPT TO PENDS TOWER (1465)
18-000009

DQN TO SNKPT WINDMILL (1697)
18-027790

CTC INDIANAPOLIS APP WITHIN
20 NM ON 127.15.31.7.8

PENDS TO CLANG TOWER (1340)
18-001454

VIDEO SNKPT TO PENDS TOWER (1465)
18-000009

DQN TO SNKPT WINDMILL (1697)
18-027790

CTC INDIANAPOLIS APP WITHIN
20 NM ON 127.15.31.7.8

PENDS TO CLANG TOWER (1340)
18-001454

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18-000009

DQN TO SNKPT WINDMILL (1697)
18-027790

CTC INDIANAPOLIS APP WITHIN
20 NM ON 127.15.31.7.8

PENDS TO CLANG TOWER (1340)
18-001454

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18-027790

CTC INDIANAPOLIS APP WITHIN
20 NM ON 127.15.31.7.8

PENDS TO CLANG TOWER (1340)
18-001454

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18-000009

DQN TO SNKPT WINDMILL (1697)
18-027790

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20 NM ON 127.15.31.7.8

PENDS TO CLANG TOWER (1340)
18-001454

VIDEO SNKPT TO PENDS TOWER (1465)
18-000009

DQN TO SNKPT WINDMILL (1697)
18-027790

CTC INDIANAPOLIS APP WITHIN
20 NM ON 127.15.31.7.8

PENDS TO CLANG TOWER (1340)
18-001454

VIDEO SNKPT TO PENDS TOWER (1465)
18-000009

DQN TO SNKPT WINDMILL (1697)
18-027790

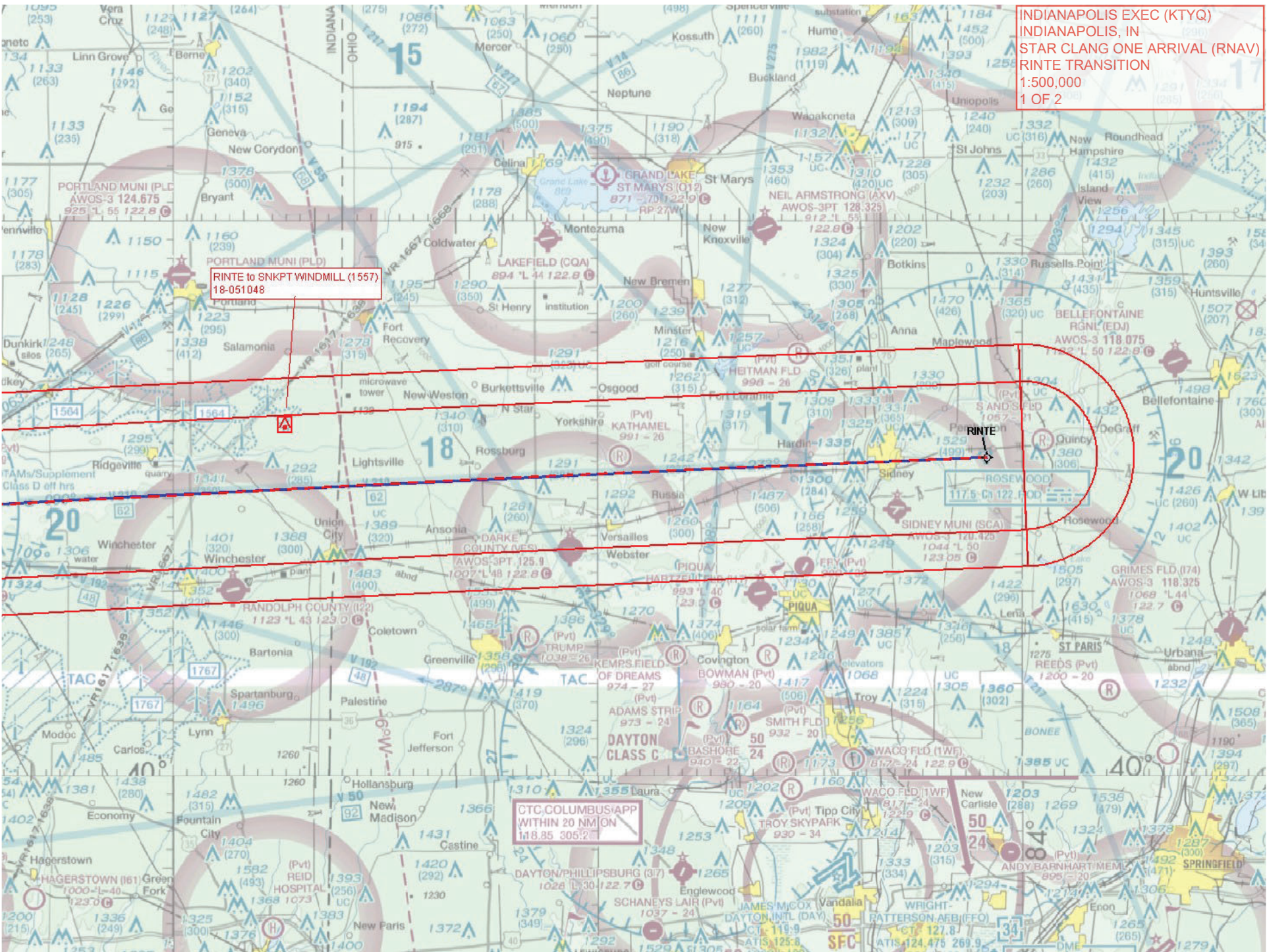
CTC INDIANAPOLIS APP WITHIN
20 NM ON 127.15.31.7.8

INDIANAPOLIS EXEC (KTYQ)
INDIANAPOLIS, IN
STAR CLANG ONE ARRIVAL (RNAV)
RINTE TRANSITION
1:500,000
1 OF 2

RINTE to SNKPT WINDMILL (1557)
18-051048

CTC.COLUMBUS/APP
WITHIN 20 NM/ON
18.8.5 3052

RINTE to
ROSEWOOD
117.5 Ch 122.8

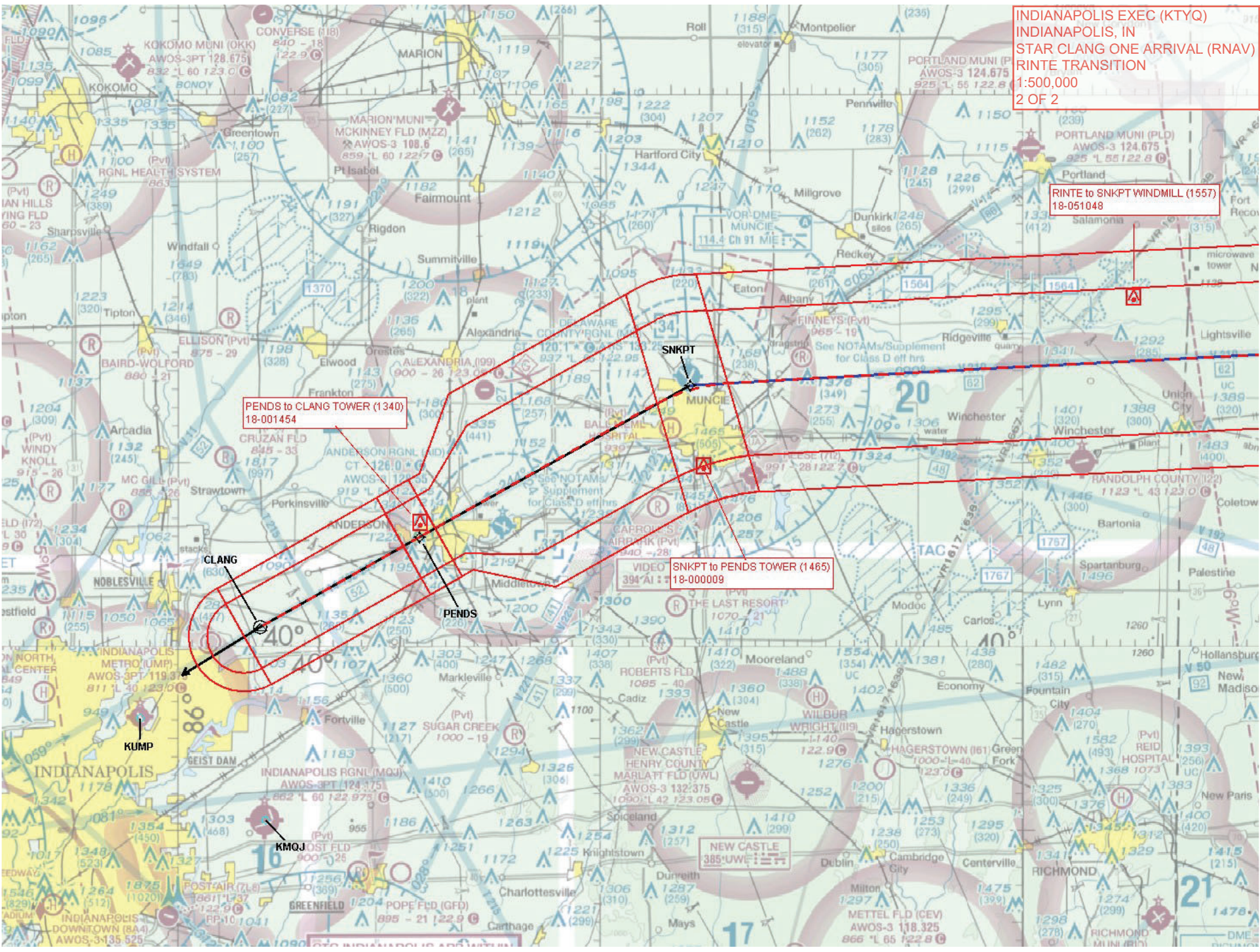


INDIANAPOLIS EXEC (KTYQ)
INDIANAPOLIS, IN
STAR CLANG ONE ARRIVAL (RNAV)
RINTE TRANSITION
1:500,000
2 OF 2

RINTE TO SNKPT WINDMILL (1557)
18-051048

PENDS to CLANG TOWER (1340)
18-001454

VIDEO SNKPT TO PENDS TOWER (1465)
394 AI : : :
18-000009



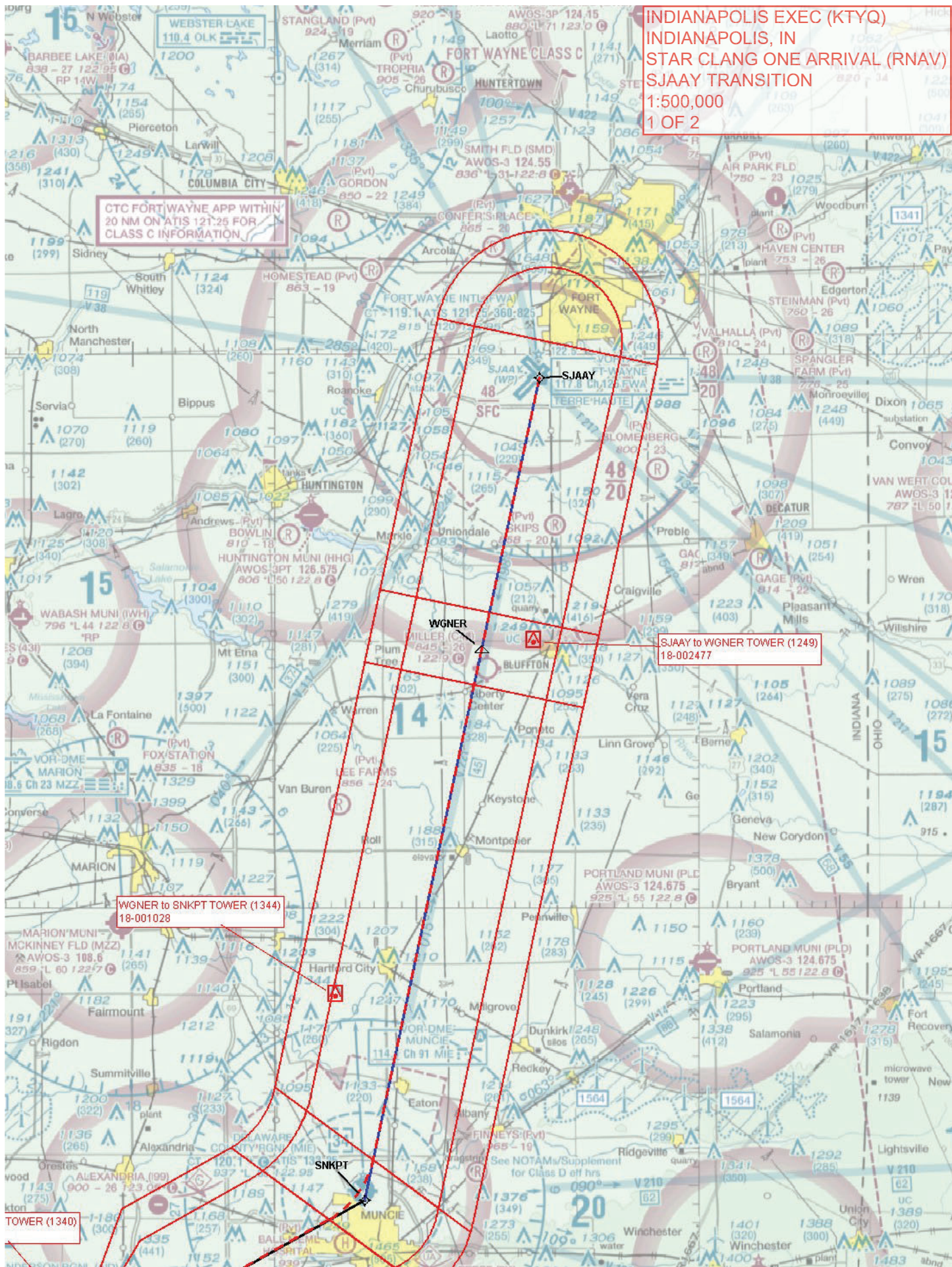
INDIANAPOLIS EXEC (KTYQ)
INDIANAPOLIS, IN
STAR CLANG ONE ARRIVAL (RNAV)
SJAAY TRANSITION
1:500,000
1 OF 2

CTC FORT WAYNE APP WITHIN
20 NM ON ATIS 121.25 FOR
CLASS C INFORMATION

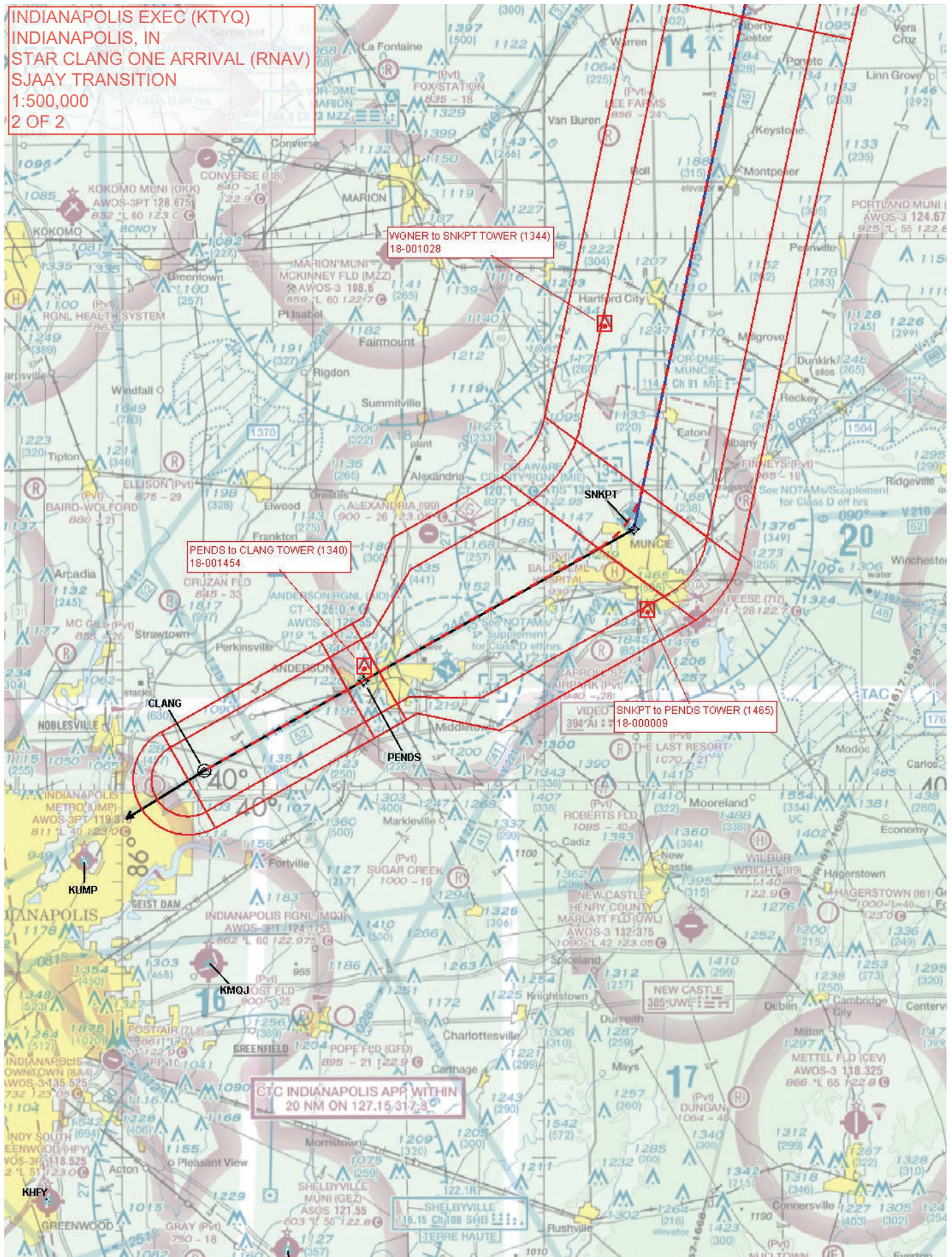
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18-002477

WGNR to SNKPT TOWER (1344)
18-001028

TOWER (1340)



INDIANAPOLIS EXEC (KTYQ)
INDIANAPOLIS, IN
STAR CLANG ONE ARRIVAL (RNAV)
SJAAY TRANSITION
1:500,000
2 OF 2





INDIANAPOLIS EXEC (KTYQ)
INDIANAPOLIS, IN
STAR CLANG ONE ARRIVAL (RNAV)
ENROUTE LOW HOLDING
1:500,000

CLANG ARRIVAL TOWER (1400)
18-000029

CTC INDIANAPOLIS APP WITHIN
20 NM ON 127.15-317.8