

Flight Procedures Cover Page	Task Action: FLIGHT CHECK	Task Type: STAR	Estimated Chart Date: 08/07/2025	APWS Task ID: 5D011A614EBB425CABB9A47446801208	APWS Project ID: E62A0CD074E34F8E8128AE020F6FD44C
Procedure: BLUEM (RNAV) FIVE ARRIVAL		Enroute: YES	Specialist: Young, Silvia		Agreement Number:
Airport ID: KMSP			Airport City: MINNEAPOLIS		State: MN
Facility ID:	Facility Type:	Flight Inspection Remark Type: New FC Slot			
<div>Procedure Comments: APPROVAL LETTER (S):  1. LAZYY TO BLUEM DESCENT GRADIENT  2. CANDD TO HAPTN &amp; DNDIS TO JAMEZ LEG LENTH FOR DECELERATION  ACTIVE DATA USED FOR KMSP AIRPORT AND RWYS.  CONTACT: CASIMIR TABAKA, (405)954-7931.</div> <div>04/11/2025</div>					





# Federal Aviation Administration

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## Memorandum

Date: December 13, 2024  
To: Charles R Erickson, (Acting) Fight Procedures Team Manager  
From: Jessica Roses, Support Manager, Airspace and Procedures  
Prepared by: Scott Enander, Task Order Manager, NAVTAC Contract  
Support  
Subject: Letter of Approval Request BLUEM STAR, KMSP

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### **KMSP BLUEM Standard Terminal Arrival Route (STAR): LAZYY to BLUEM Descent Gradient.**

Currently, FAAO 8260.3F, PARA 2-2-8a (1), The STAR's maximum permissible descent gradient is 330 ft/nm (approximately 3.11 degrees). LAZYY has a restriction of AT OR ABOVE 16000, and BLUEM has a restriction of AT OR ABOVE 10000MSL. The descent gradient (461.17 ft/nm) from LAZYY and BLUEM is greater than the maximum permissible gradient allowed. Flight Standards approval is required.

The BLUEM STAR serves Minneapolis – St Paul International/Wold-Chamberlain Airport. The altitude restrictions on the BLUEM STAR are designed to separate aircraft on the procedure from either adjacent airspace or other traffic. The deviation from Descent Gradient criteria does not introduce any new risk into the system. Additionally, the procedure does not have any reported issues by either air traffic control or the airline industry.

Therefore, ZMP is requesting a Letter of Approval to utilize the altitudes at LAZYY (AT OR ABOVE 16000) to BLUEM (AT OR ABOVE 10000) resulting in a descent gradient of 461.17 ft/nm as developed for the BLUEM STAR.

Sincerely,

Jessica Roses  
Support Manager, Airspace & Procedures  
Minneapolis ARTCC, MN



# Federal Aviation Administration

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KMSP BLUEM Standard Terminal Arrival Route (STAR): CANDD to HAPTN Leg Length for Deceleration.

KMSP BLUEM Standard Terminal Arrival Route (STAR): DNDIS to JAMEZ Leg Length for Deceleration.

### **KMSP BLUEM Standard Terminal Arrival Route (STAR): CANDD to HAPTN Leg Length for Deceleration.**

Currently, criteria evaluate loss of altitude and airspeed wholly contained within a single segment, not through the entirety of the flown procedure. FAAO 8260.3G, PARA 2-2-10 prescribes allowable deceleration distances for STAR development.

The length of the leg from CANDD to HAPTN is 1.63 NM. This leg must be at least 4 NM long due to deceleration from 230.0 KIAS to 210 KIAS at 7000 ft MSL. Flight Standards approval is required.

The total distance from CANDD to HAPTN is 1.63 NM and the segment requires the aircraft to lose 20 KTS of airspeed. Paragraph 2-2-10a of 8260.3G, computes a minimum deceleration distance of 4 NM. Industry indicates that the procedure can be easily managed without increased energy management actions by the flight crew and these altitude restrictions and speed restrictions have been published on this procedure for several years without any reported issues.

### **KMSP BLUEM Standard Terminal Arrival Route (STAR): DNDIS to JAMEZ Leg Length for Deceleration.**

Currently, criteria evaluate loss of altitude and airspeed wholly contained within a single segment, not through the entirety of the flown procedure. FAAO 8260.3G, PARA 2-2-10 prescribes allowable deceleration distances for STAR development.

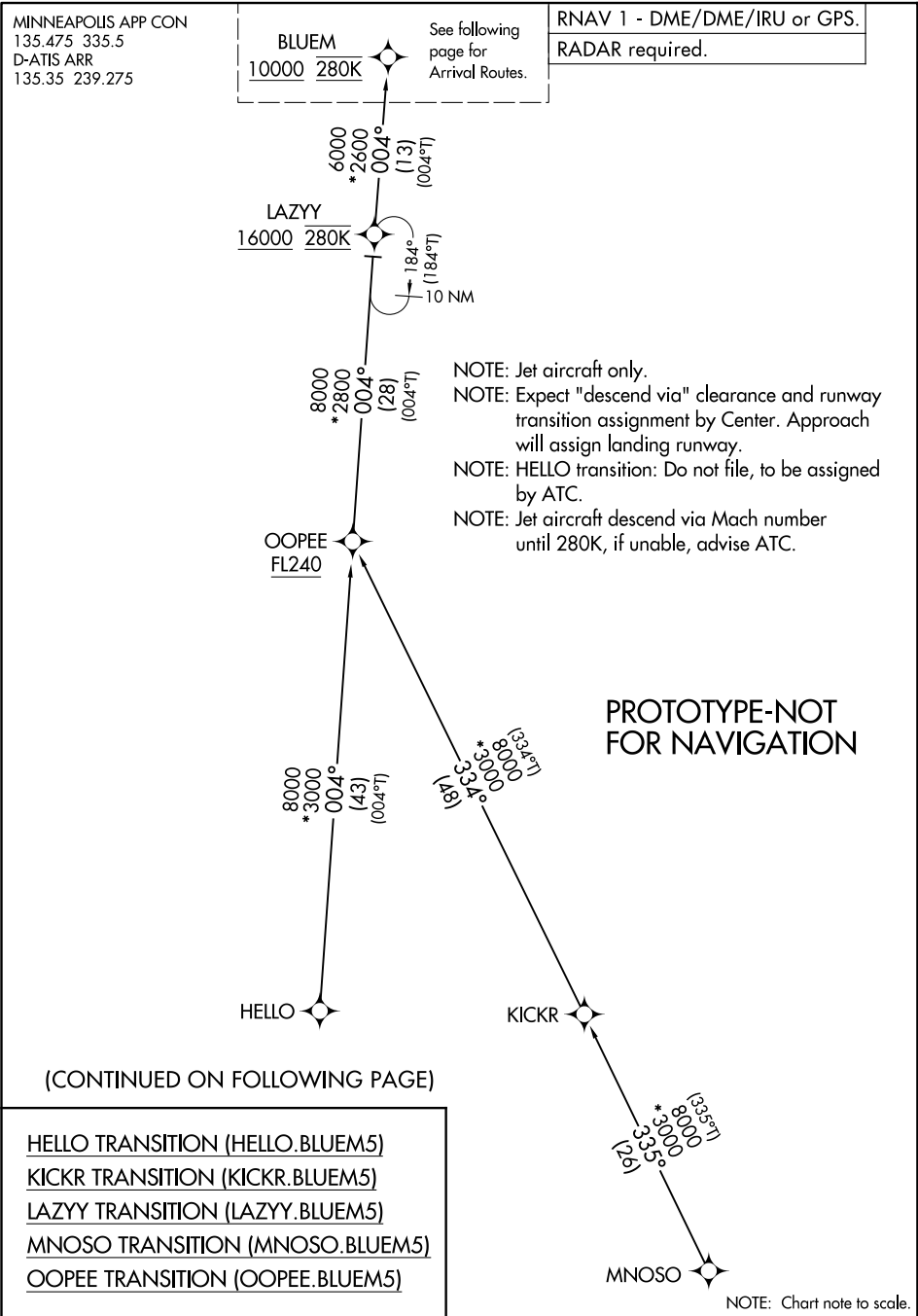
The length of the leg from DNDIS to JAMEZ is 8 NM. This leg must be at least 10 NM long due to deceleration from 230.0 KIAS to 210 KIAS between 9000.0 ft. MSL

to 7000.0 ft MSL. Flight Standards approval is required.

The total distance from DNDIS to JAMEZ is 8 NM and the segment requires the aircraft to lose 2000ft of altitude and 20 KTS of airspeed. Using formula 2-2-2 of 8260.3G, computes a minimum deceleration distance of 10 NM. Industry indicates that the procedure can be easily managed without increased energy management actions by the flight crew and these altitude restrictions and speed restrictions have been published on this procedure for several years without any reported issues.

Sincerely,

Jessica Roses  
Support Manager, Airspace & Procedures  
Minneapolis ARTCC, MN



BLUEM FIVE ARRIVAL(RNAV)

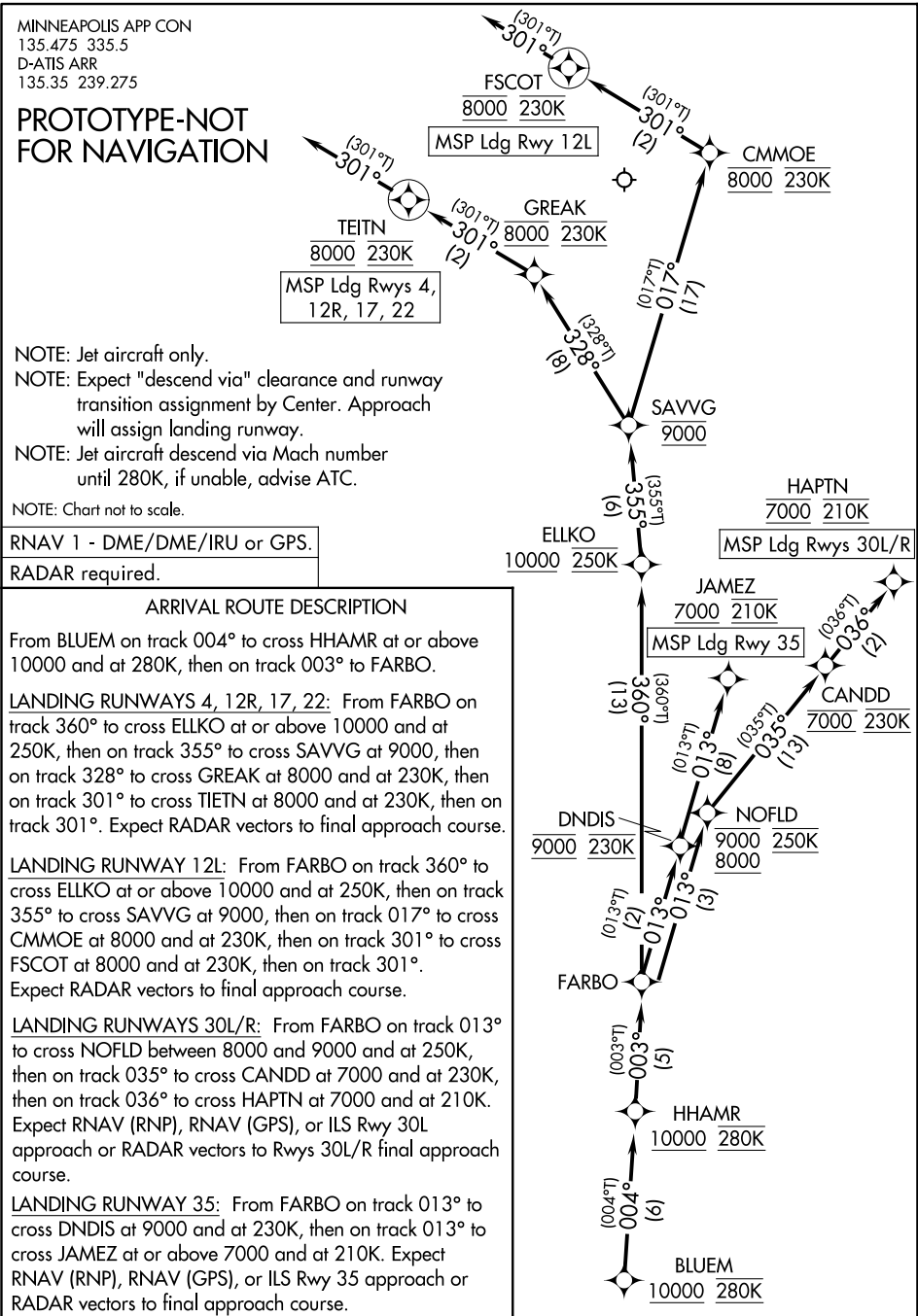
(BLUEM.BLUEM5) FIG

Transition Routes

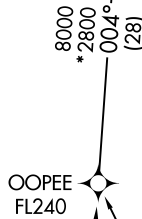
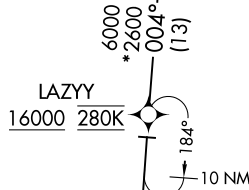
MINNEAPOLIS, MINNESOTA

MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (MSP)

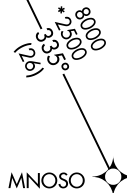
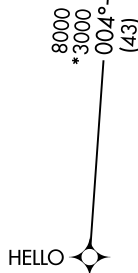
NEW



MINNEAPOLIS APP CON  
135.475 335.5  
D-ATIS ARR  
135.35 239.275



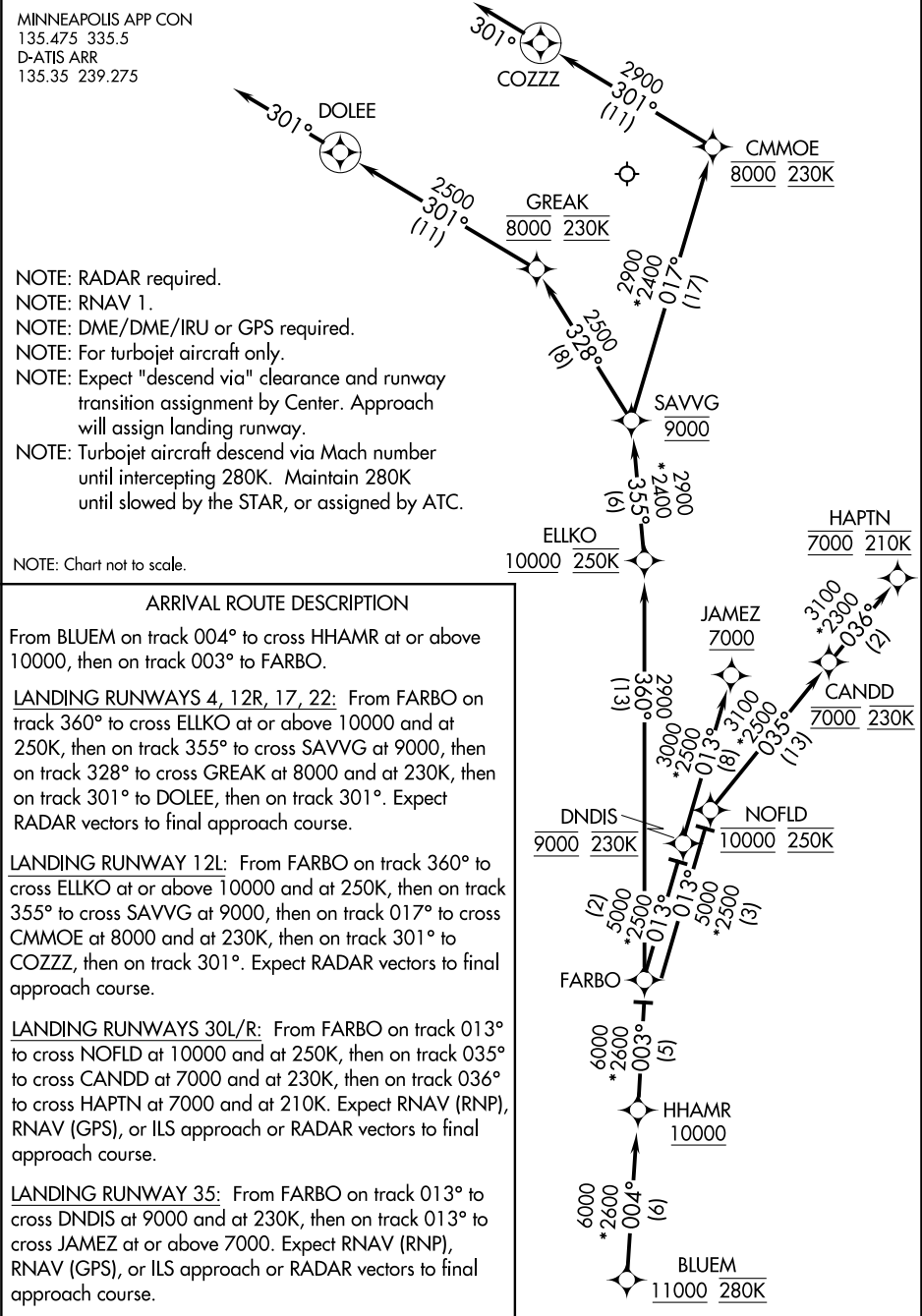
NOTE: RADAR required.  
NOTE: RNAV 1.  
NOTE: DME/DME/IRU or GPS required.  
NOTE: For turbojet aircraft only.  
NOTE: Expect "descend via" clearance and runway transition assignment by Center. Approach will assign landing runway.  
NOTE: Turbojet aircraft descend via Mach number until intercepting 280K. Maintain 280K until slowed by the STAR, or assigned by ATC.  
NOTE: HELLO transition ATC assigned only.



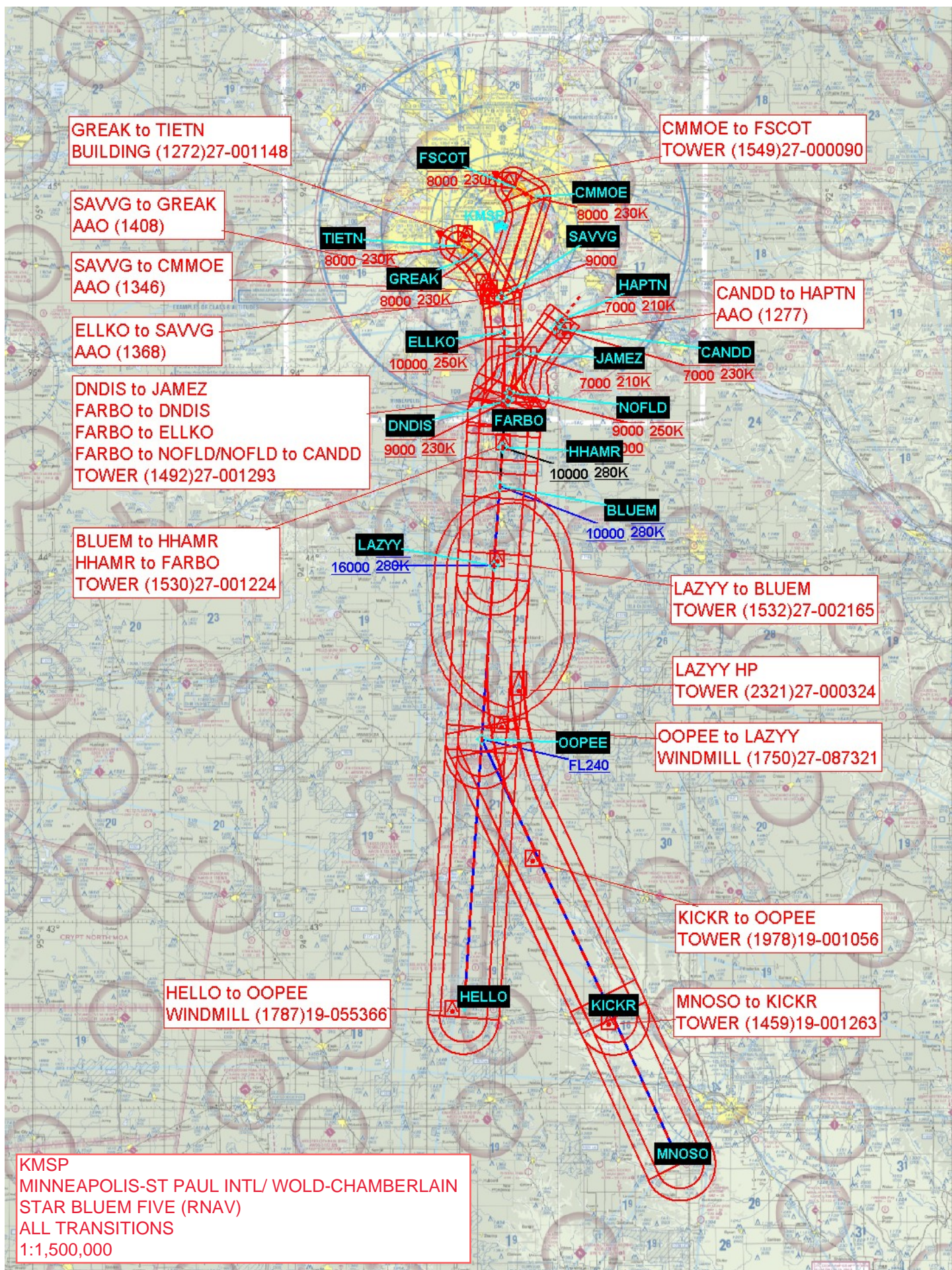
(CONTINUED ON FOLLOWING PAGE)

HELLO TRANSITION (HELLO.BLUEM4)  
KICKR TRANSITION (KICKR.BLUEM4)  
LAZYY TRANSITION (LAZYY.BLUEM4)  
MNOSO TRANSITION (MNOSO.BLUEM4)  
OOPEE TRANSITION (OOPEE.BLUEM4)

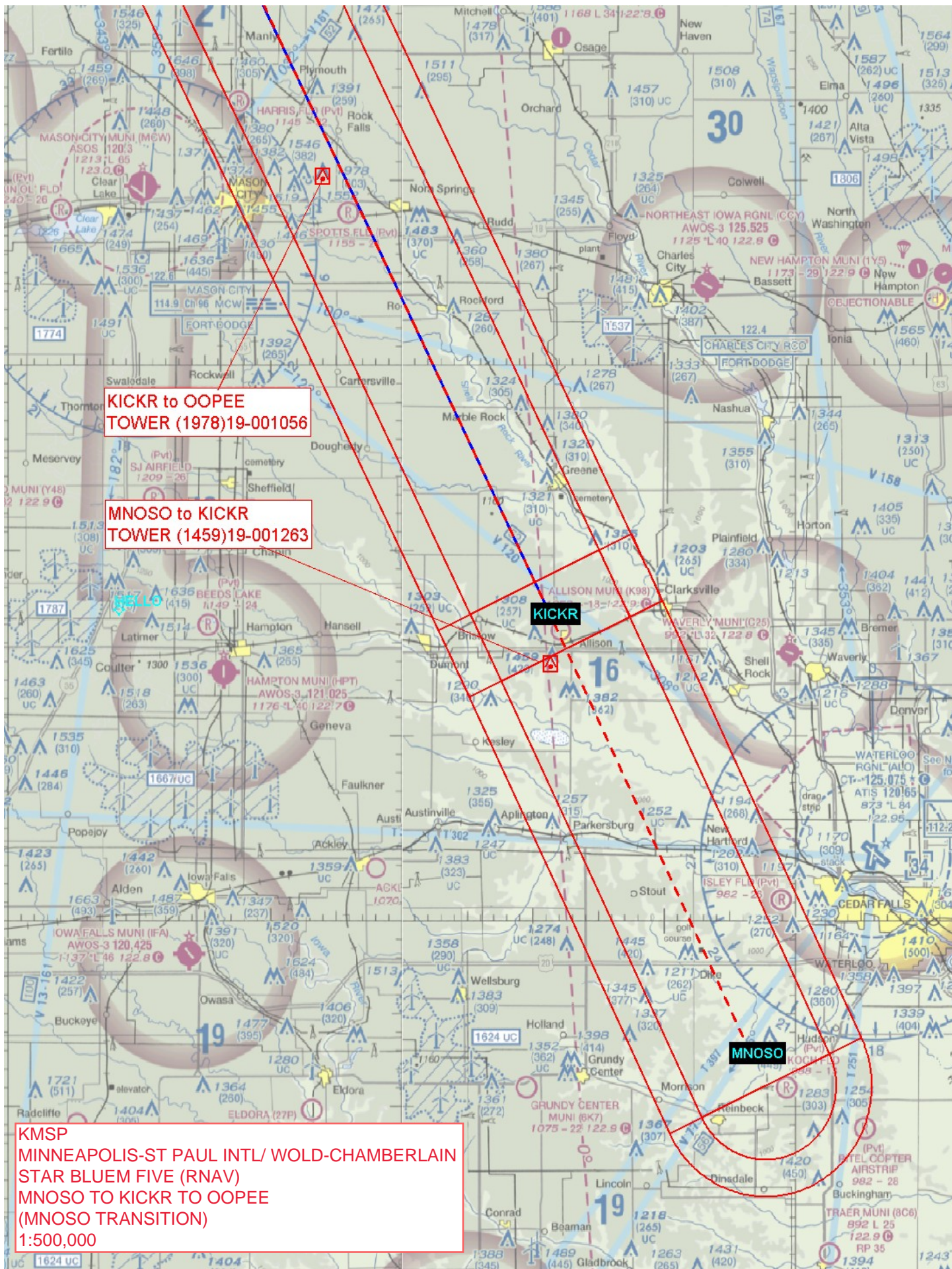
NOTE: Chart note to scale.











KICKR to OOPPEE  
TOWER (1978) 19-001056

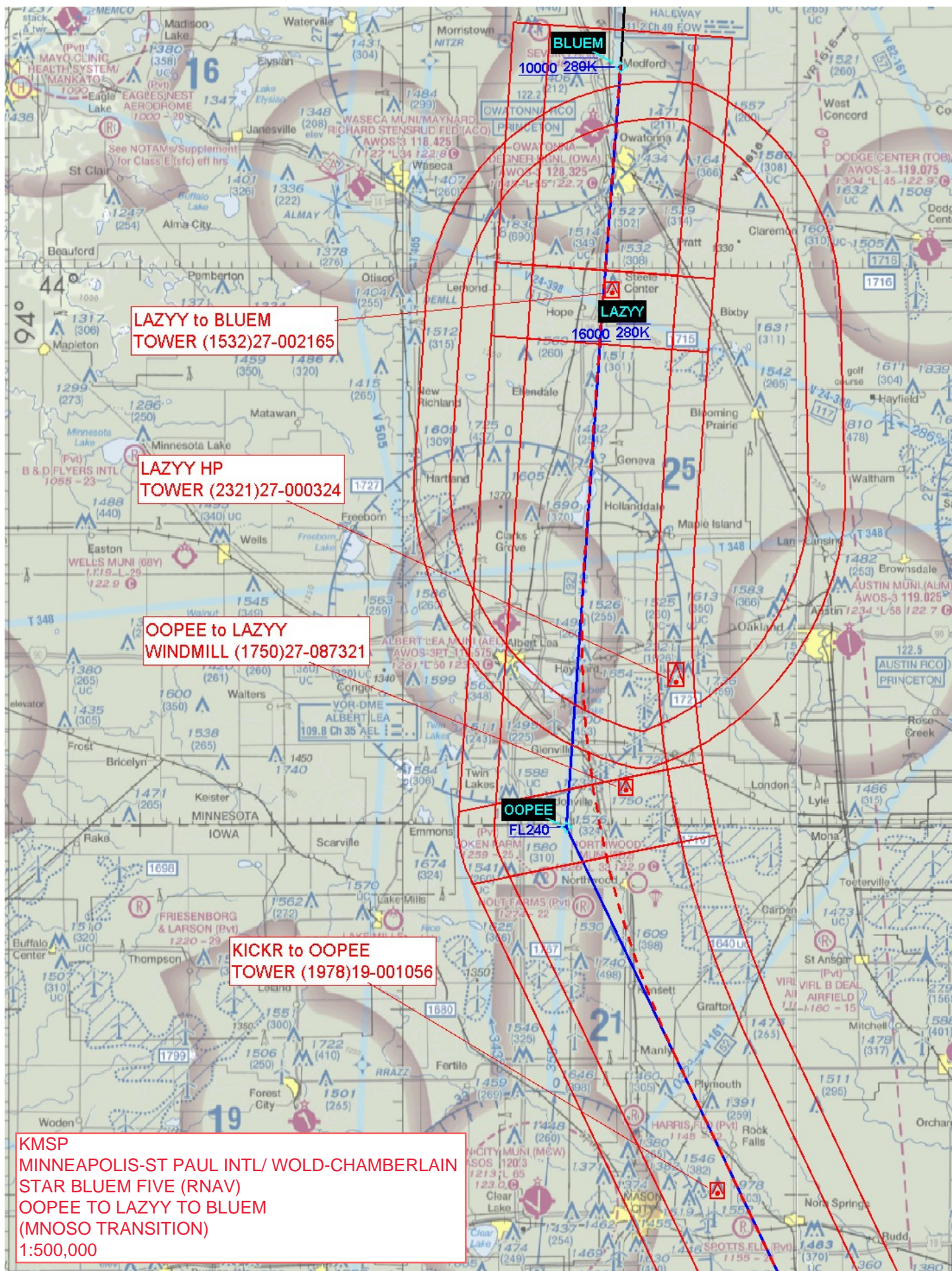
MNOSO to KICKR  
TOWER (1459) 19-001263

KICKR

MNOSO

KMSP  
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN  
STAR BLUEM FIVE (RNAV)  
MNOSO TO KICKR TO OOPPEE  
(MNOSO TRANSITION)  
1:500,000







**KMSP  
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN  
STAR BLUEM FIVE (RNAV)  
BLUEM TO HHAMR TO FARBO TO RUNWAY TRANSITIONS  
(MNOSO TRANSITION)  
1:500,000**

**GREAK to TIETN  
BUILDING (1272)27-001148**

**SAVVG to GREAK  
AAO (1408)**

**SAVVG to CMMOE  
AAO (1346)**

**ELLKO to SAVVG  
AAO (1368)**

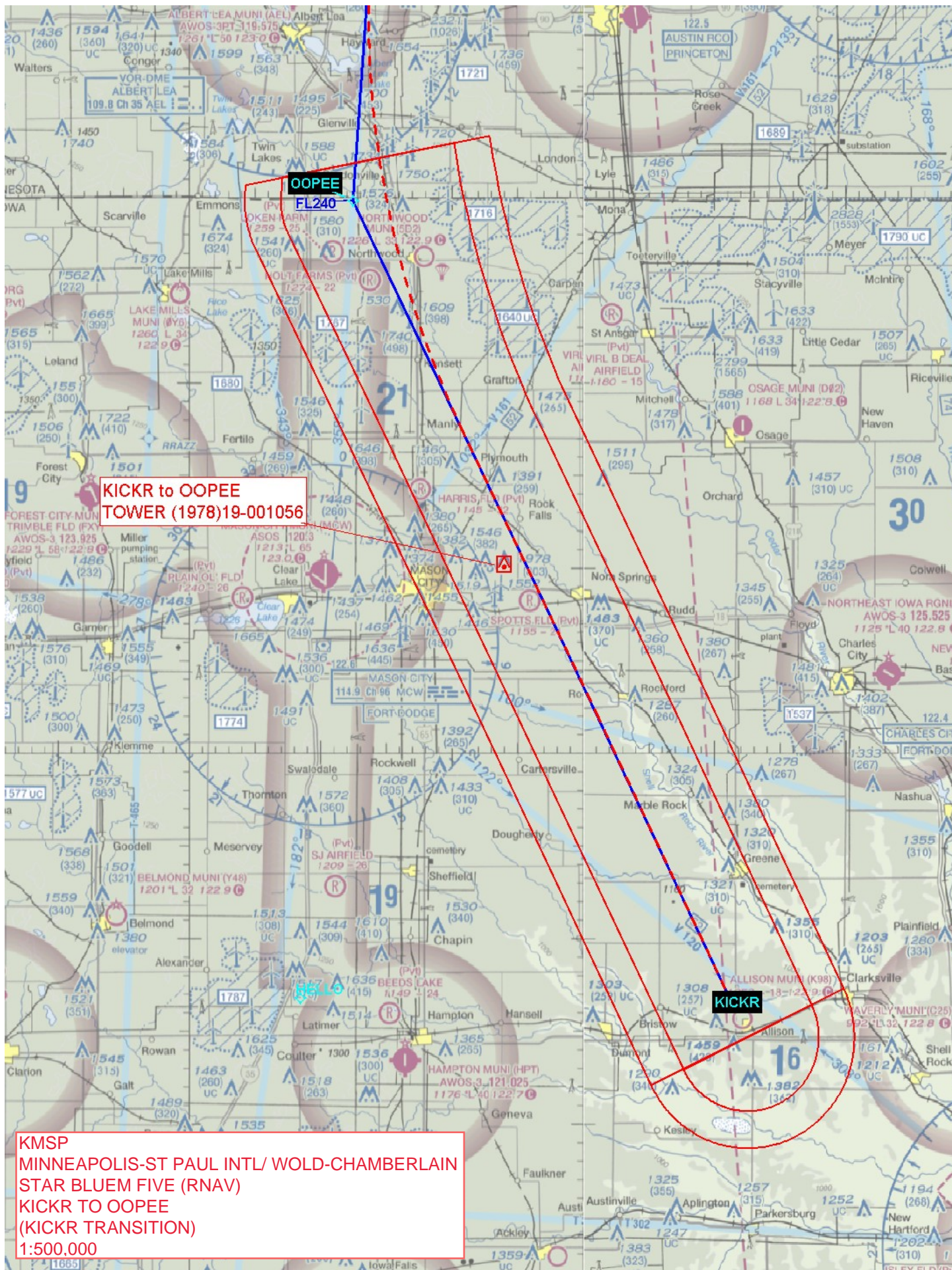
**DNDIS to JAMEZ  
FARBO to DNDIS  
FARBO to ELLKO  
FARBO to NOFLD/NOFLD to CANDD  
TOWER (1492)27-001293**

**BLUEM to HHAMR  
HHAMR to FARBO  
TOWER (1530)27-001224**

**CMMOE to FSCOT  
TOWER (1549)27-000090**

**CANDD to HAPTAN  
AAO (1277)**







**KMSP**  
**MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN**  
**STAR BLUEM FIVE (RNAV)**  
**OOPPEE TO LAZZY TO BLUEM**  
**(KICKR TRANSITION)**  
**1:500,000**

**LAZZY to BLUEM**  
**TOWER (1532)27-002165**

**LAZZY HP**  
**TOWER (2321)27-000324**

**OOPPEE to LAZZY**  
**WINDMILL (1750)27-087321**

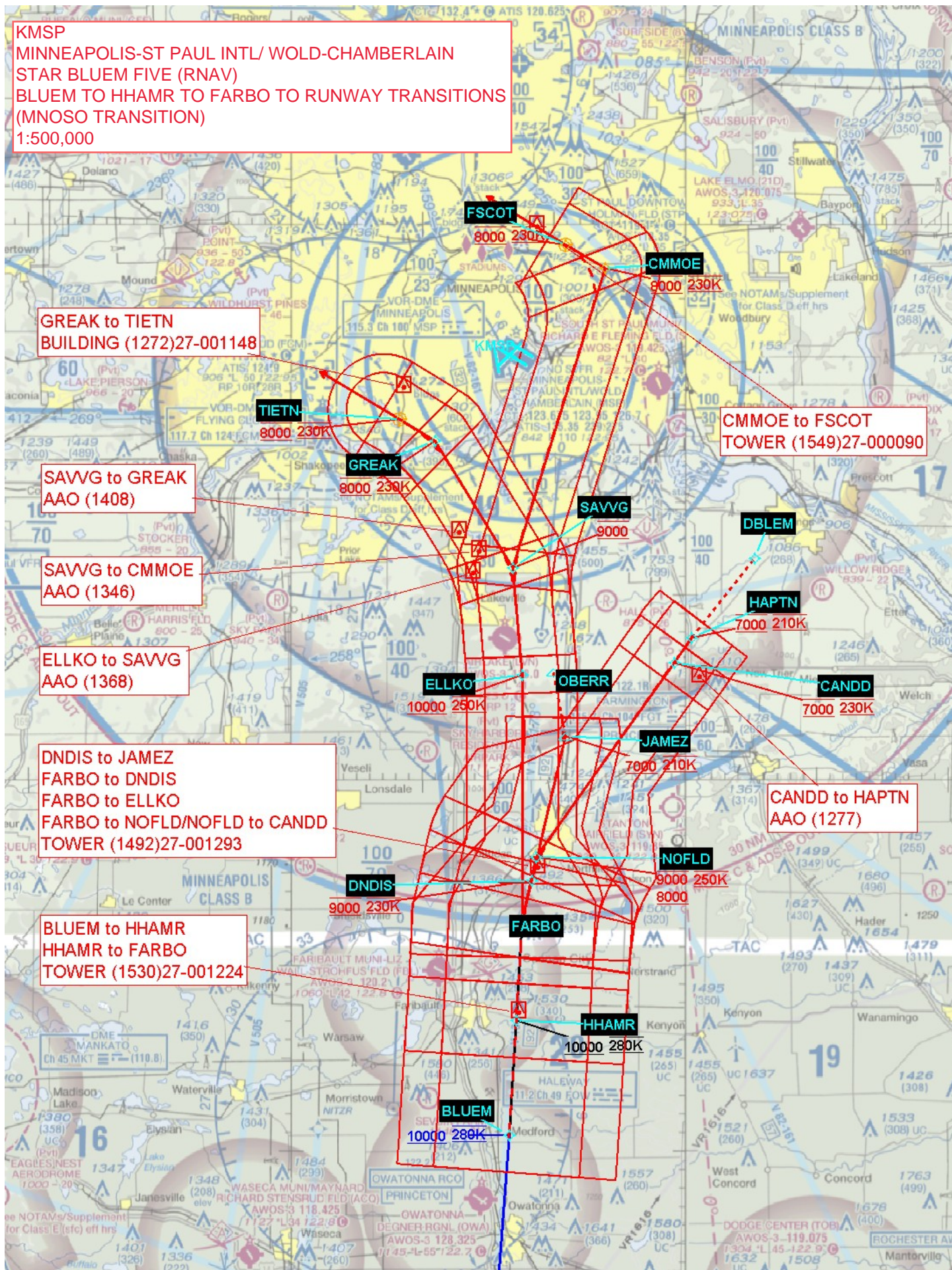
**BLUEM**  
**10000 280K**

**LAZZY**  
**16000 280K**

**OOPPEE**  
**FL240**

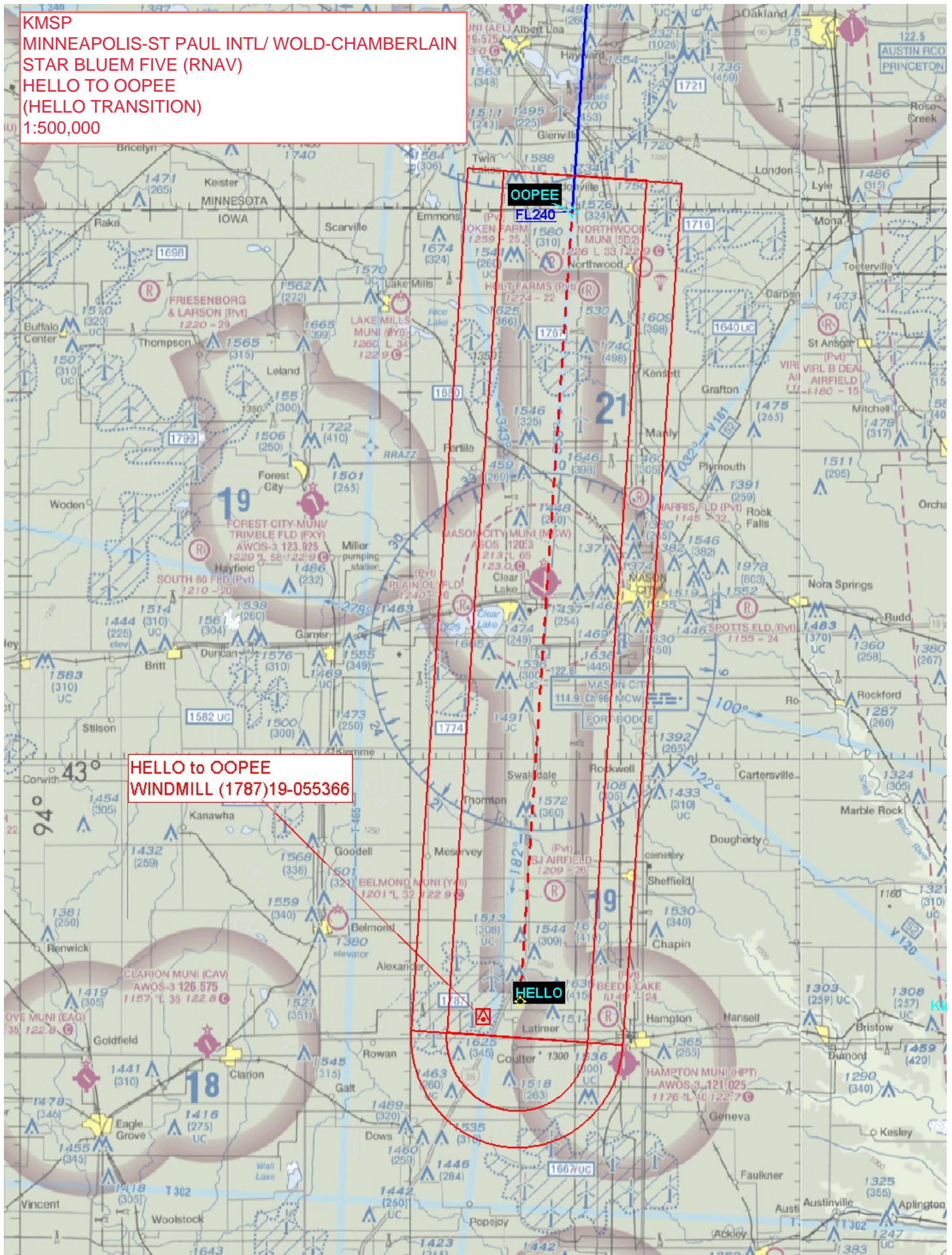


KMSP  
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN  
STAR BLUEM FIVE (RNAV)  
BLUEM TO HHAMR TO FARBO TO RUNWAY TRANSITIONS  
(MNOSO TRANSITION)  
1:500,000



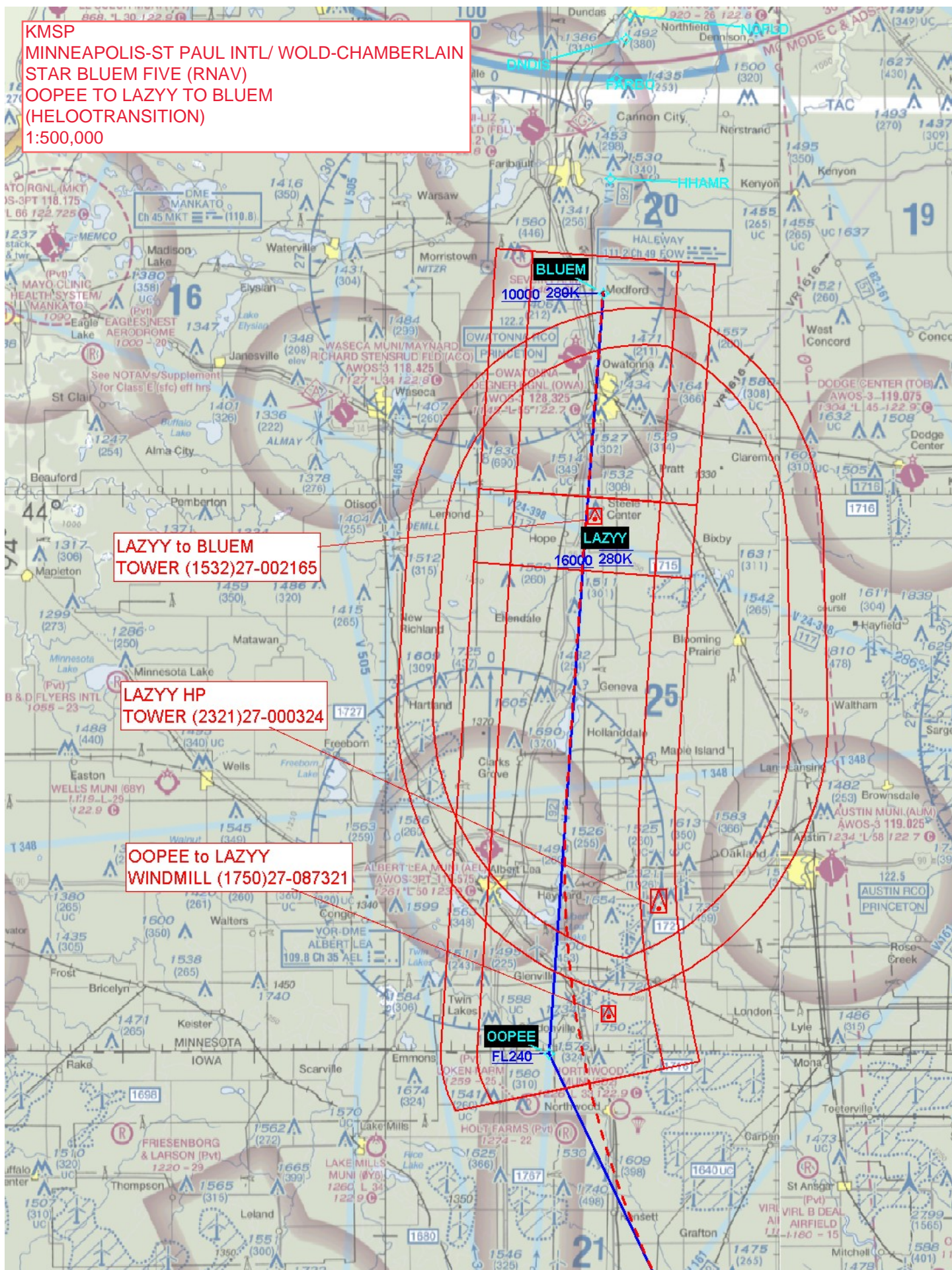


KMSP  
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN  
STAR BLUEM FIVE (RNAV)  
HELLO TO OOPÉE  
(HELLO TRANSITION)  
1:500,000





KMSP  
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN  
STAR BLUEM FIVE (RNAV)  
OOPEE TO LAZYY TO BLUEM  
(HELOOTRANSITION)  
1:500,000





**KMSP**  
**MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN**  
**STAR BLUEM FIVE (RNAV)**  
**BLUEM TO HHAMR TO FARBO TO RUNWAY TRANSITIONS**  
**(MNOSO TRANSITION)**  
**1:500,000**

**GREAK to TIETN**  
**BUILDING (1272)27-001148**

**SAVVG to GREAK**  
**AAO (1408)**

**SAVVG to CMMOE**  
**AAO (1346)**

**ELLKO to SAVVG**  
**AAO (1368)**

**DNDIS to JAMEZ**  
**FARBO to DNDIS**  
**FARBO to ELLKO**  
**FARBO to NOFLD/NOFLD to CANDD**  
**TOWER (1492)27-001293**

**BLUEM to HHAMR**  
**HHAMR to FARBO**  
**TOWER (1530)27-001224**

**CMMOE to FSCOT**  
**TOWER (1549)27-000090**

**CANDD to HAPT**  
**AAO (1277)**

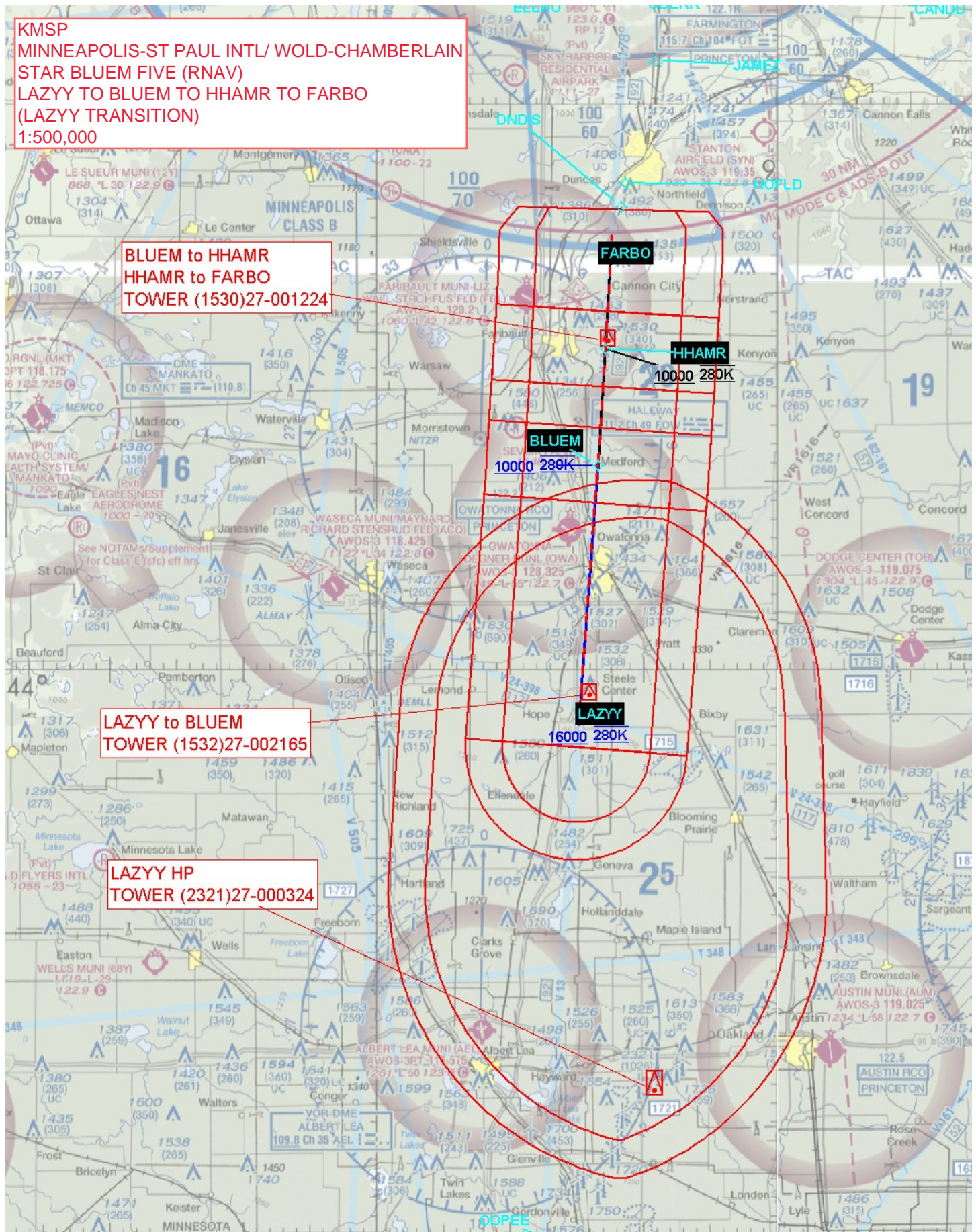


KMSP  
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN  
STAR BLUEM FIVE (RNAV)  
LAZYY TO BLUEM TO HHMR TO FARBO  
(LAZYY TRANSITION)  
1:500,000

BLUEM to HHMR  
HHMR to FARBO  
TOWER (1530)27-001224

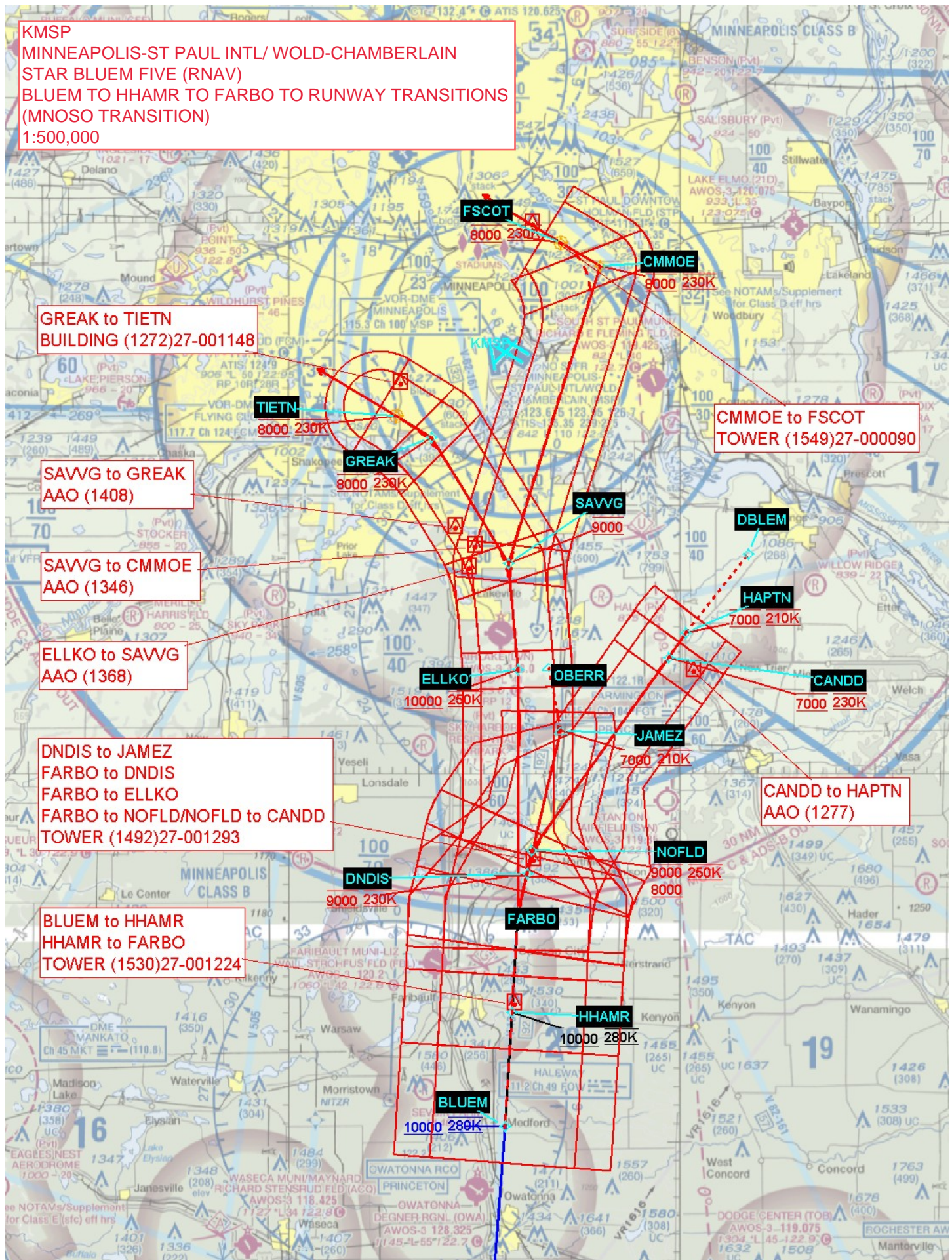
LAZYY to BLUEM  
TOWER (1532)27-002165

LAZYY HP  
TOWER (2321)27-000324



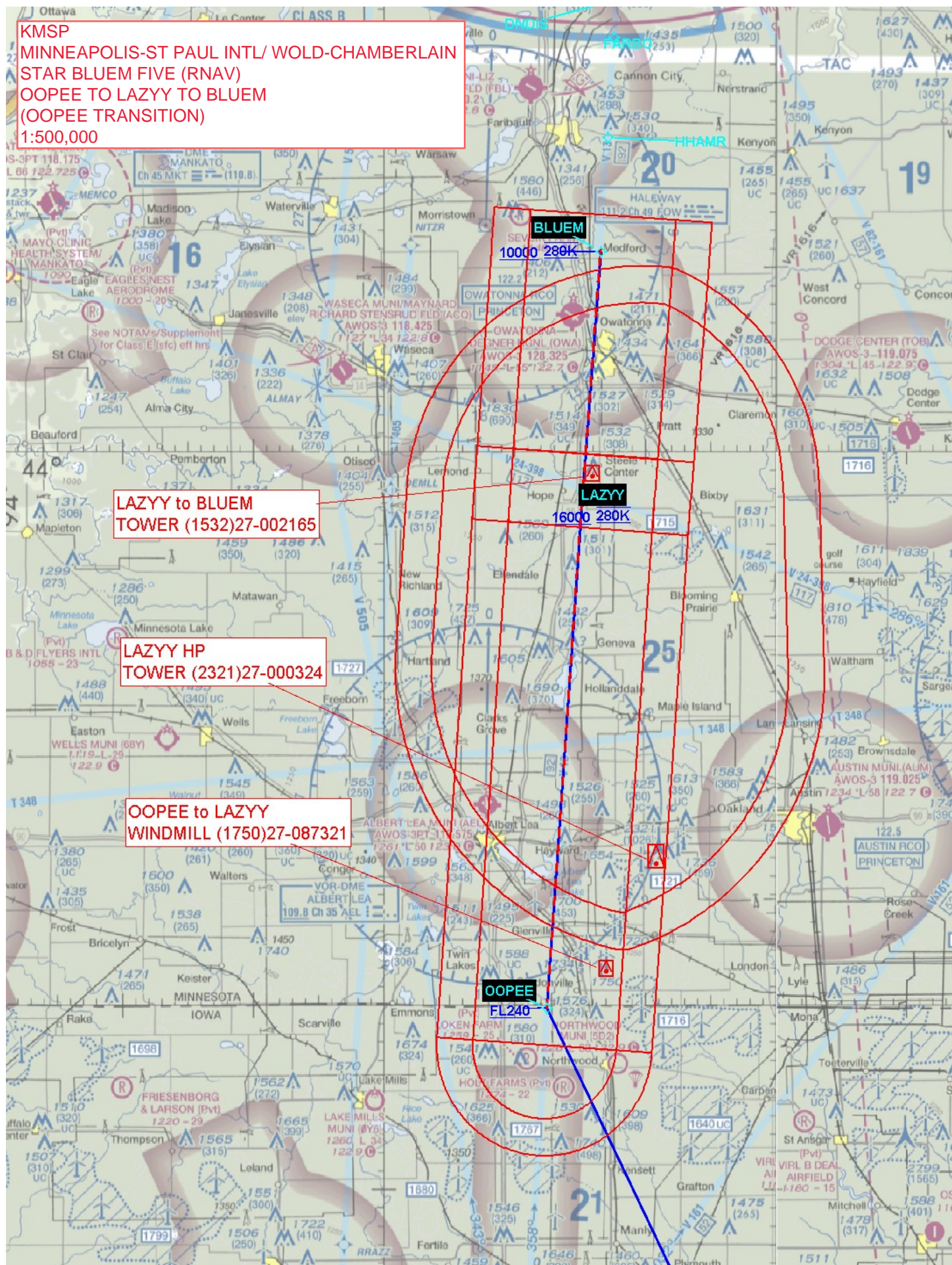


KMSP  
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN  
STAR BLUEM FIVE (RNAV)  
BLUEM TO HHAMR TO FARBO TO RUNWAY TRANSITIONS  
(MNOSO TRANSITION)  
1:500,000





KMSP  
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN  
STAR BLUEM FIVE (RNAV)  
OOPEE TO LAZYY TO BLUEM  
(OOPEE TRANSITION)  
1:500,000





KMSP  
MINNEAPOLIS-ST PAUL INTL/ WOLD-CHAMBERLAIN  
STAR BLUEM FIVE (RNAV)  
BLUEM TO HHMR TO FARBO TO RUNWAY  
TRANSITIONS  
(MNOSO TRANSITION)  
1:500,000

GREAK to TIETN  
BUILDING (1272)27-001148

SAVVG to GREAK  
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DNDIS to JAMEZ  
FARBO to DNDIS  
FARBO to ELLKO  
FARBO to NOFLD/NOFLD to CANDD  
TOWER (1492)27-001293

BLUEM to HHMR  
HHMR to FARBO  
TOWER (1530)27-001224

CMMOE to FSCOT  
TOWER (1549)27-000090

CANDD to HAPT  
AAO (1277)

