Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 02/28/2012	Task #: 2006071410720503006	Request #: 20060714107205
Procedure: SID DRUSE (RNAV) ONE ST. LOUIS MO KSTL		Airport ID: KSTL	Airport: LAMBERT-ST LOUIS INTL		Reimbursable #:
City: ST LOUIS	ST: MO	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID:	Fac. Type:		Specialist: STEVE NELSON		

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	03/29/2012	06/12/2012	JILL OLSON	
QA:	06/12/2012	06/12/2012	STEVEN SZUKALA	
Liaison:	06/12/2012		MARY MCDONALD	DME/DME; REPLACEMENT - 15B, FIG.

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

ST LOUIS, MO LAMBERT-ST LOUIS INTL (KSTL) DRUSE ONE (RNAV) (SID) ENROUTE-YES FC: 7.24.12 PUB: 9.20.12

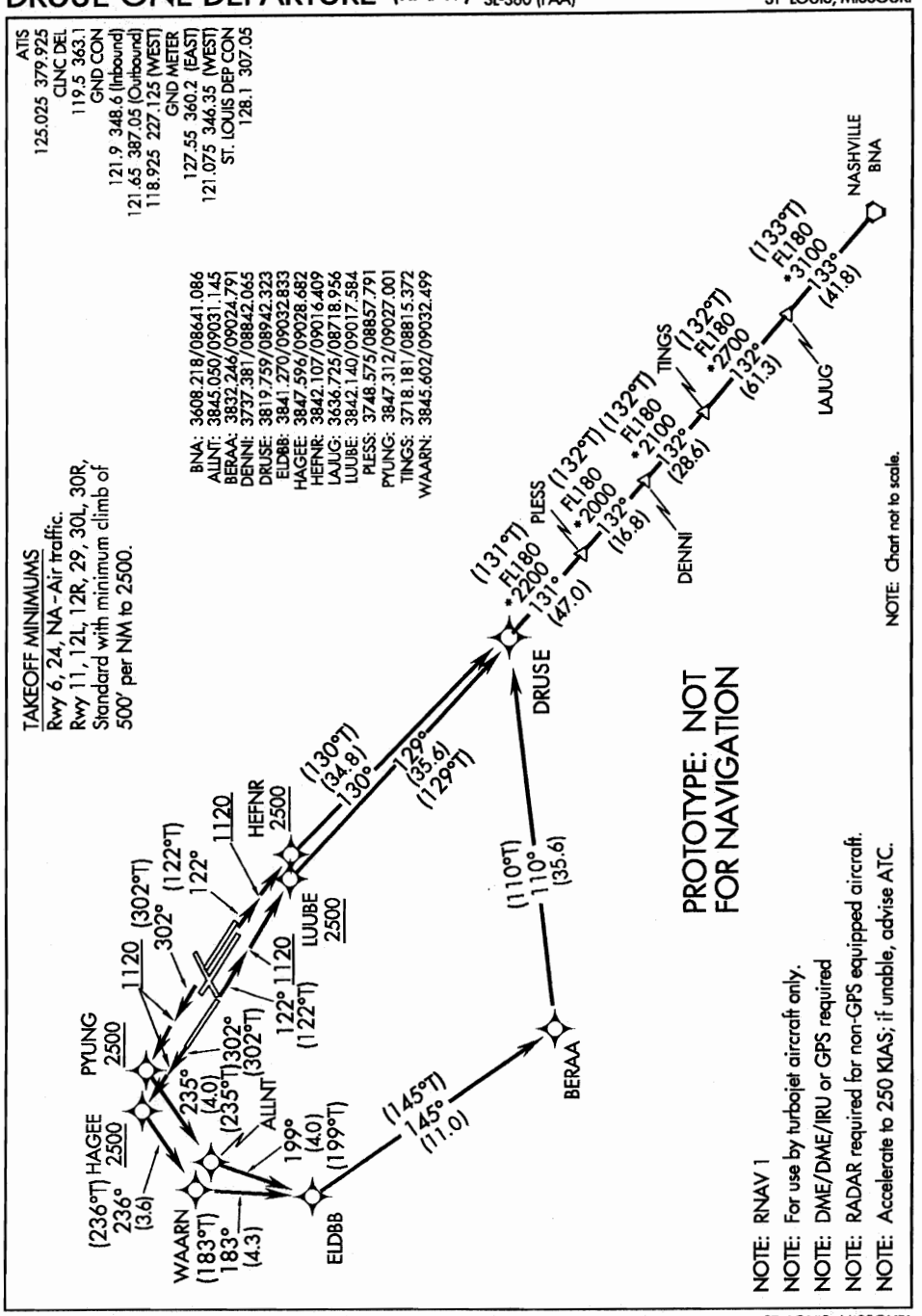
ATTACHED FORMS: ESV REPORTS; 8260-15B; 8260-15C; 8260-2(S): ALLNT, ORIG; BERAA, ORIG; DENNI-INT, REV 6; DRUSE, ORIG; ELDBB, ORIG; HAGEE, ORIG; HEFNR, ORIG; LAJUG-INT, REV 3; LUUBE, ORIG; PLESS-INT, REV 5; PYUNG, ORIG; TINGS-INT, REV 5; WAARN, ORIG; (INFO ONLY) NASHVILLE (BNA) VTAC, REV 18.

CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.0414
REPLACEMENT PACKAGE TO CORRECTED MEA'S TO MATCH DME/DME PRORUNS. SEE ATTACHED LIST FOR ALL AFFECTED PROCEDURES.

DRUSE ONE DEPARTURE (RNAV)

SL-360 (FAA)

ST LOUIS/ LAMBERT-ST LOUIS INTL (STL)
ST LOUIS, MISSOURI



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb heading 122° to 1120, then direct LUUBE, cross LUUBE at or above 2500, then on depicted route to DRUSE. Thence. . . .
TAKEOFF RUNWAY 12L,12R: Climb heading 122° to 1120, then direct HEFNR, cross HEFNR at or above 2500, then on depicted route to DRUSE. Thence. . . .
TAKEOFF RUNWAY 29: Climb heading 302° to 1120, then direct HAGEE, cross HAGEE at or above 2500, then on depicted route to DRUSE. Thence. . . .
TAKEOFF RUNWAY 30L,30R: Climb heading 302° to 1120, then direct PYUNG, cross PYUNG at or above 2500, then on depicted route to DRUSE. Thence. . . .

. . . .(TRANSITION). Maintain 5000, expect filed altitude 10 minutes after departure.

NASHVILLE TRANSITION (DRUSE1.BNA)

TAKEOFF OBSTACLE NOTES

Rwy 11: Multiple signs, trees, towers and bldgs beginning 2348′ from DER, 205′ left of centerline, up to 219′ AGL/774′ MSL. Multiple signs, trees, towers and bldgs beginning 2363′ from DER, 489′ right of centerline up to 114′ AGL/694′ MSL.
Rwy 12L: Tree 1331′ from DER, 667′ right of centerline, 75′ AGL/654′ MSL.
Rwy 12R: Traffic signal and sign beginning 1413′ from DER, 702′ right of centerline, up to 17′ AGL/672′ MSL. Tree 1930′ from DER, 372′ left of centerline, 67′ AGL/636′ MSL.
Rwy 30L: Multiple trees, poles and roads beginning 906′ from DER, 600′ left of centerline, up to 84′ AGL/663′ MSL. OL on LOC 614′ from DER, on centerline, 9′ AGL/558′ MSL. Multiple trees, poles, roads, terrain and bldgs beginning 283′ from DER, 185′ right of centerline, up to 65′ AGL/684′ MSL.
Rwy 30R: OL on GS 1895′ from DER, 899′ left of centerline, 28′ AGL/587′ MSL. Multiple OL on bldgs, trees, and electrical system beginning 2039′ from DER, 387′ right of centerline, up to 81′ AGL/670′ MSL.

PROTOTYPE: NOT FOR NAVIGATION

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : CHOO CHOO	City : CHATTANOOGA	Ident : GQO	State : GA
Type/Class : TACR	Frequency : M1192	Reference No.: 10051133	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 110610-012	307	316	120	170	350

Requirement: ESTABLISH ESV FOR THE DRUSE SID AT STL.

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 05/26/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 110610-012	307	316	120	170	350	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR THE DRUSE SID AT STL.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 06/01/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 110610-012	307	316	120	170	350	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR THE DRUSE SID AT STL.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/02/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 110610-012	307	316				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : VOLUNTEER	City : KNOXVILLE	Ident : VXV	State : TN
Type/Class : TACR	Frequency : M1198	Reference No.: 10051134	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 755466-019	273	286	152	170	250

Requirement. ESTABLISH AN ESV FOR THE DRUSE SID AT STL.

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 05/26/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-019	273	286	152	170	250	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE DRUSE SID AT STL.Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 06/01/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-019	273	286	152	170	250	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE DRUSE SID AT STL Approved Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/03/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 755466-019	273	286				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LOUISVILLE	City : LOUISVILLE	Ident : IIU	State : KY
Type/Class : TACR	Frequency : M1182	Reference No.: 12041627	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704184-063	206	216	140	170	450

Requirement: REQUIRED FOR NEW DRUSE1 RNAV SID FROM STL

Signature: Enander Scott	Routing Symbol: AJV-C21	Date: 04/06/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704184-063	206	216	140	170	450	APPROVE

Requirement/Remarks: REQUIRED FOR NEW DRUSE1 RNAV SID FROM STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 04/06/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704184-063	206	216	140	170	450	APPROVE

Requirement/Remarks: REQUIRED FOR NEW DRUSE1 RNAV SID FROM STLAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

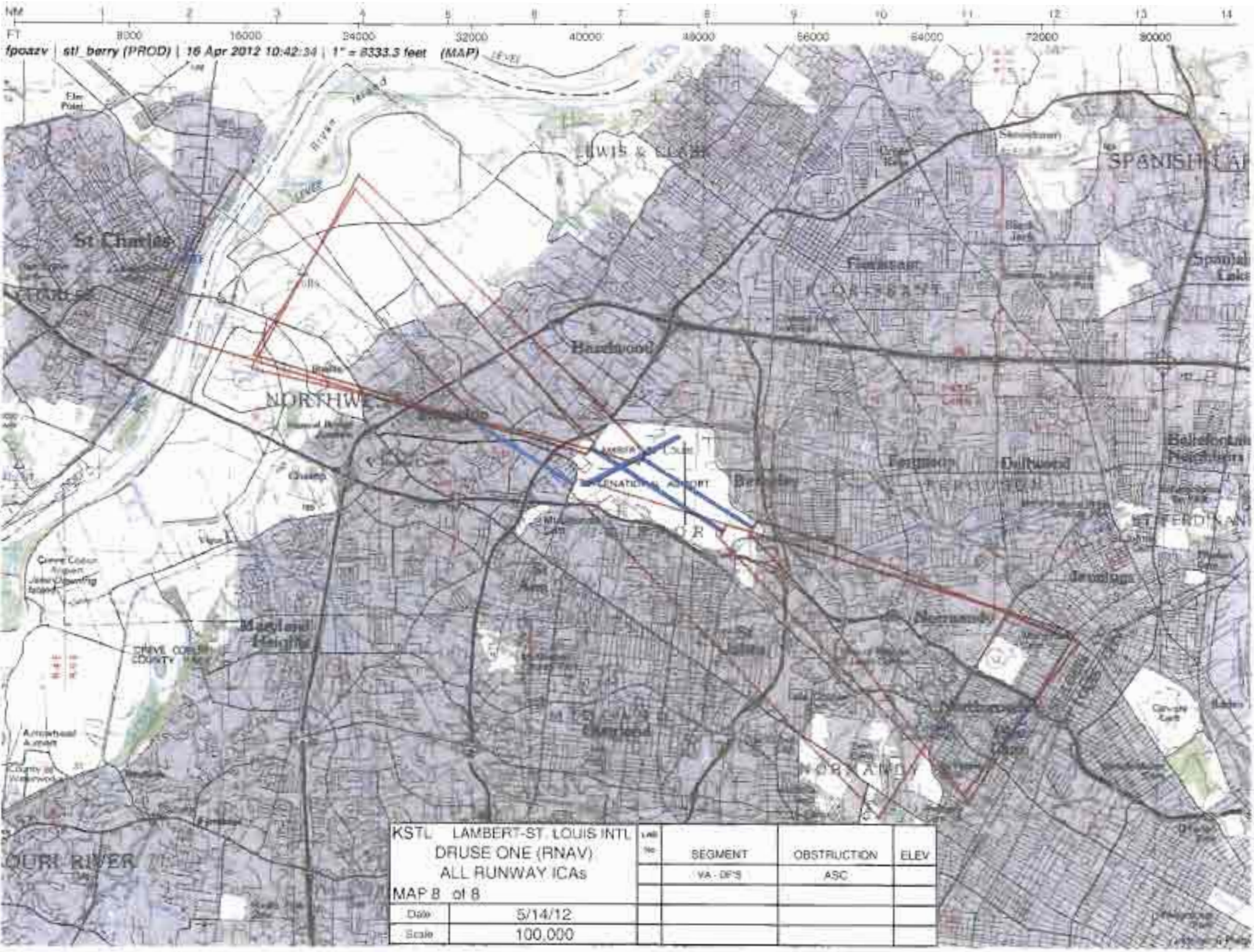
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 04/09/2012

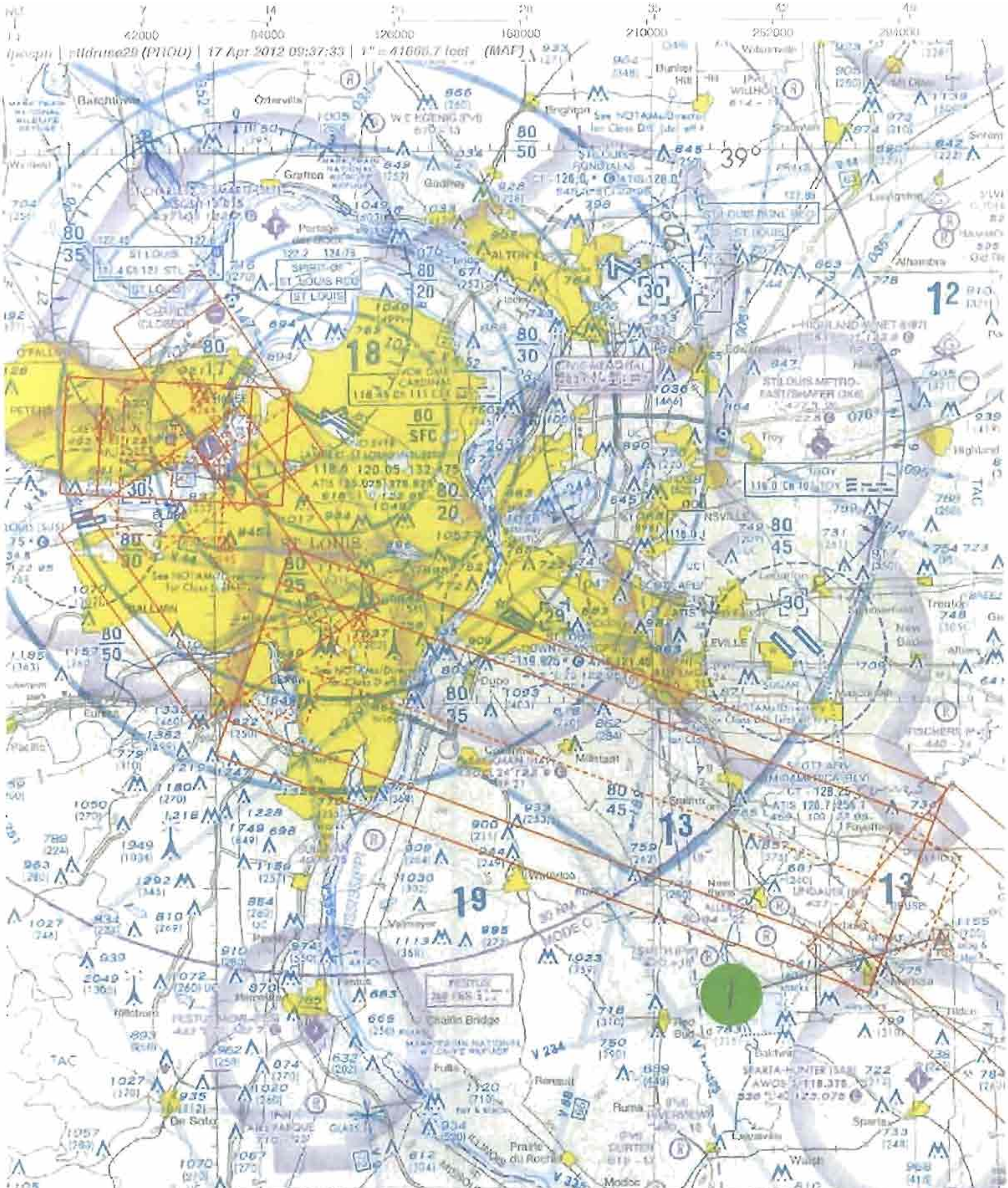
Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704184-063	206	216				

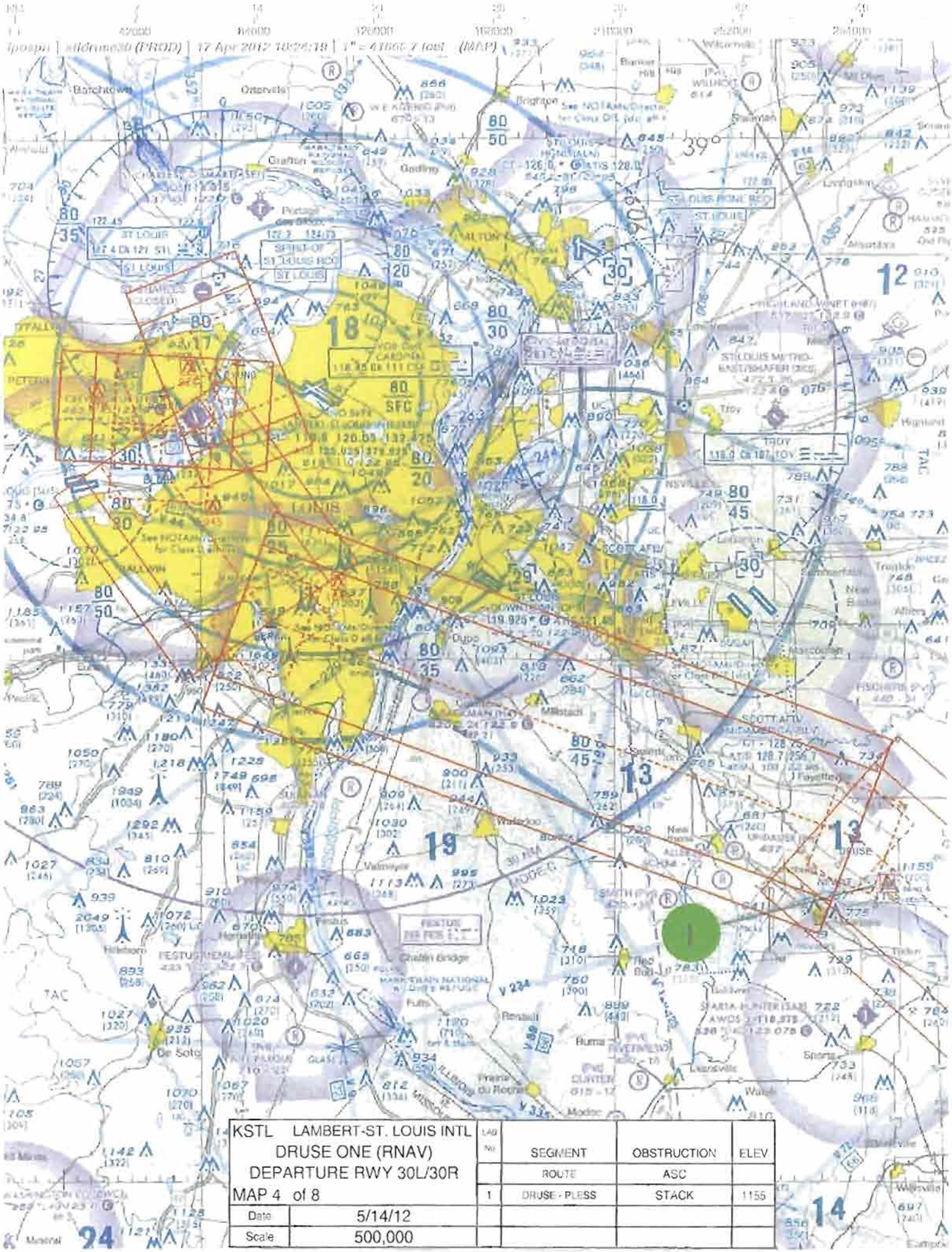
Requirement/Remarks:

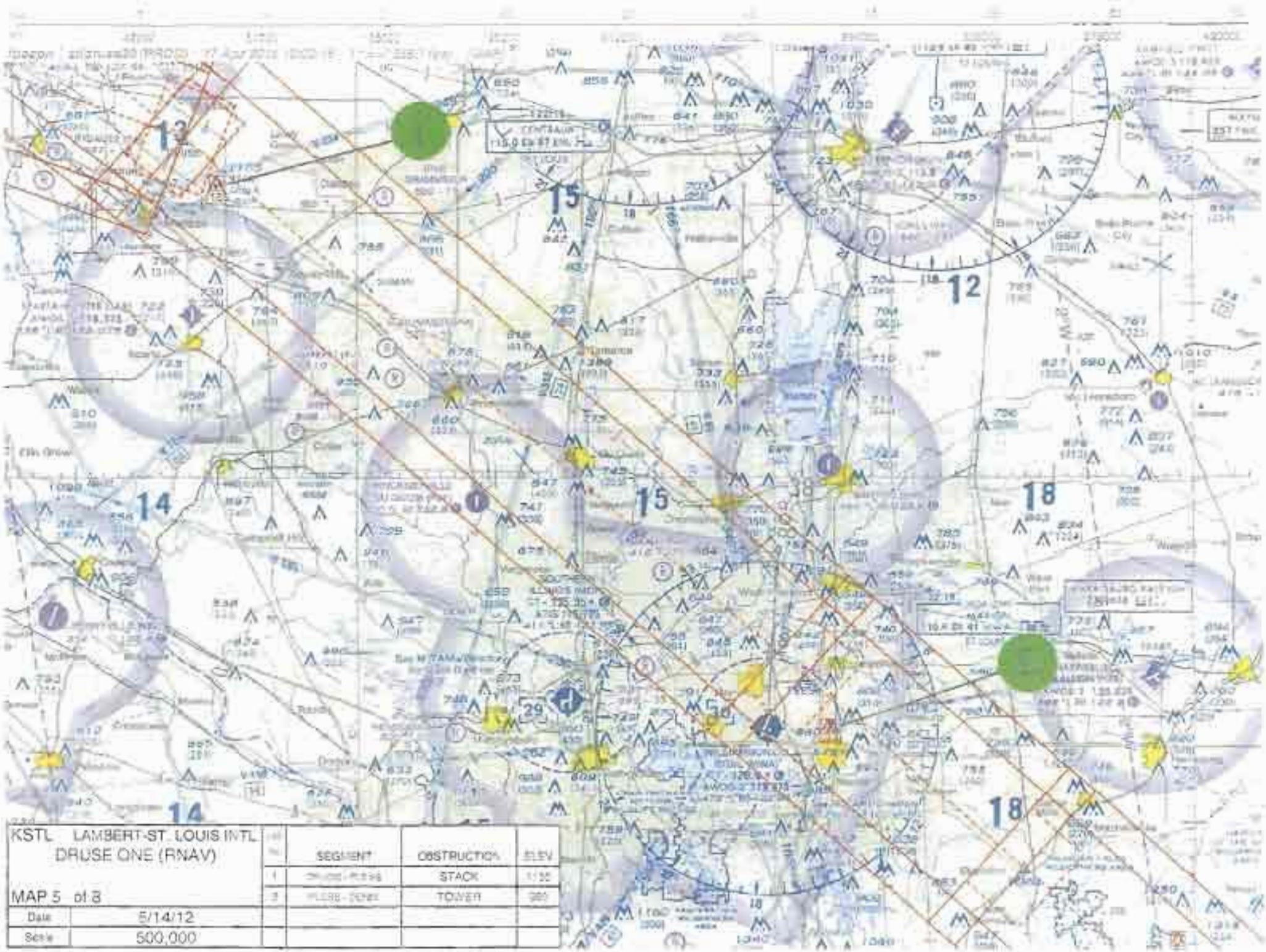
Signature:	Routing Symbol:	Date:


NM
FT
8000
16000
24000
32000
40000
48000
56000
64000
72000
80000
fpoazv | stl_berry (PROD) | 16 Apr 2012 10:42:34 | 1" = 8333.3 feet (MAP)
St Charles
Hazelwood
Ferguson
Berkeley
Maryland Heights
Jennings
Normandy
Bellefontaine Neighbors
Spanish Lake
KSTL LAMBERT-ST. LOUIS INTL
DRUSE ONE (RNAV)
ALL RUNWAY ICAs
MAP 8 of 8
Date 5/14/12
Scale 100,000
Leg No
SEGMENT
OBSTRUCTION
ELEV
VA - DF'S
ASC

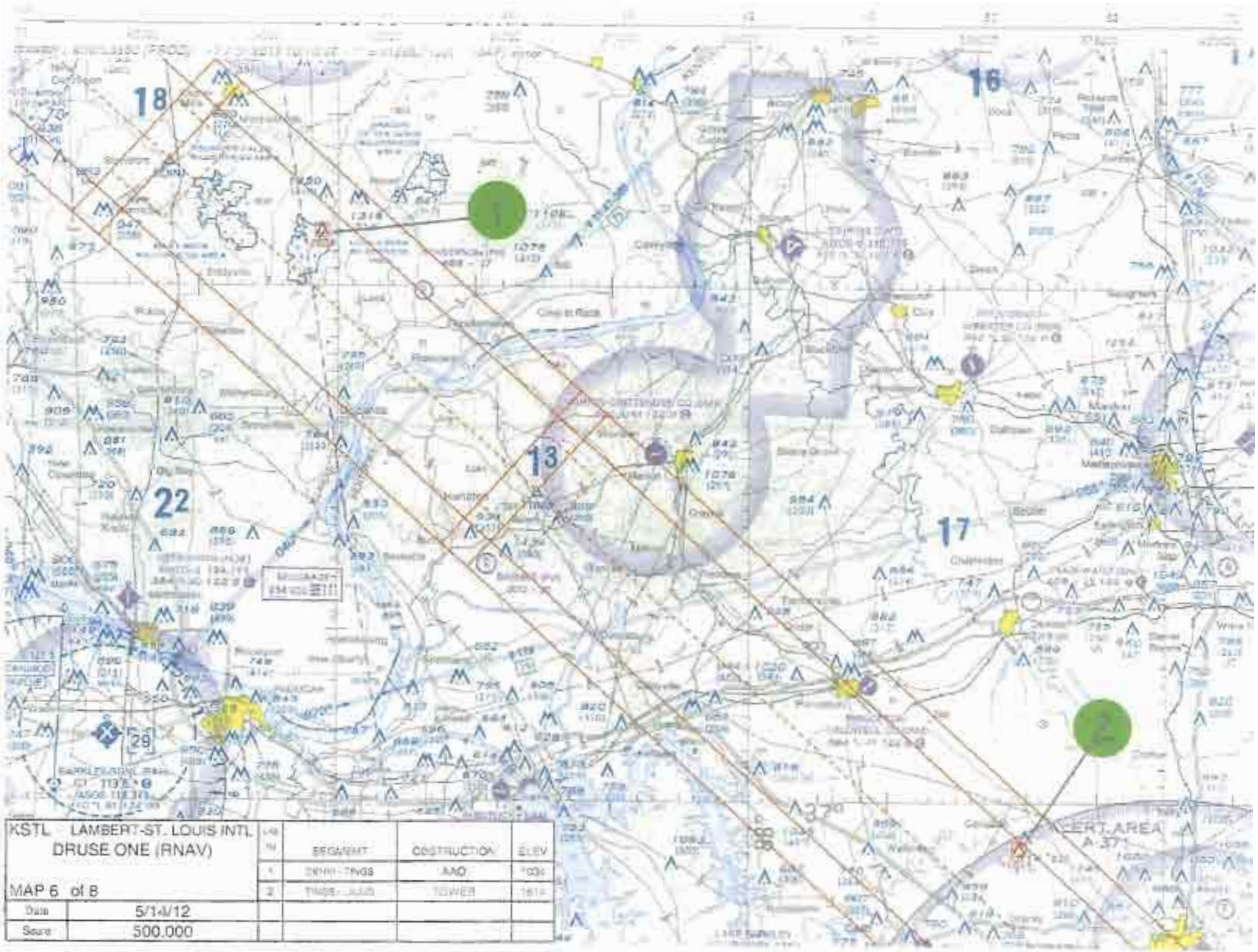


KSTL LAMBERT-ST. LOUIS INTL DRUSE ONE (RNAV) DEPARTURE RWY 29		LAB No.	SEGMENT	OBSTRUCTION	ELEV
			ROUTE	ASC	
MAP 3 of 8		1	DRUSE - PLESS	STACK	1155
Date	5/14/12				
Scale	500,000				


KSTL LAMBERT-ST. LOUIS INTL
DRUSE ONE (RNAV)
DEPARTURE RWY 30L/30R
MAP 4 of 8
Date 5/14/12
Scale 500,000
LAB No
SEGMENT
OBSTRUCTION
ELEV
ROUTE
ASC
1
DRUSE - PLESS
STACK
1155

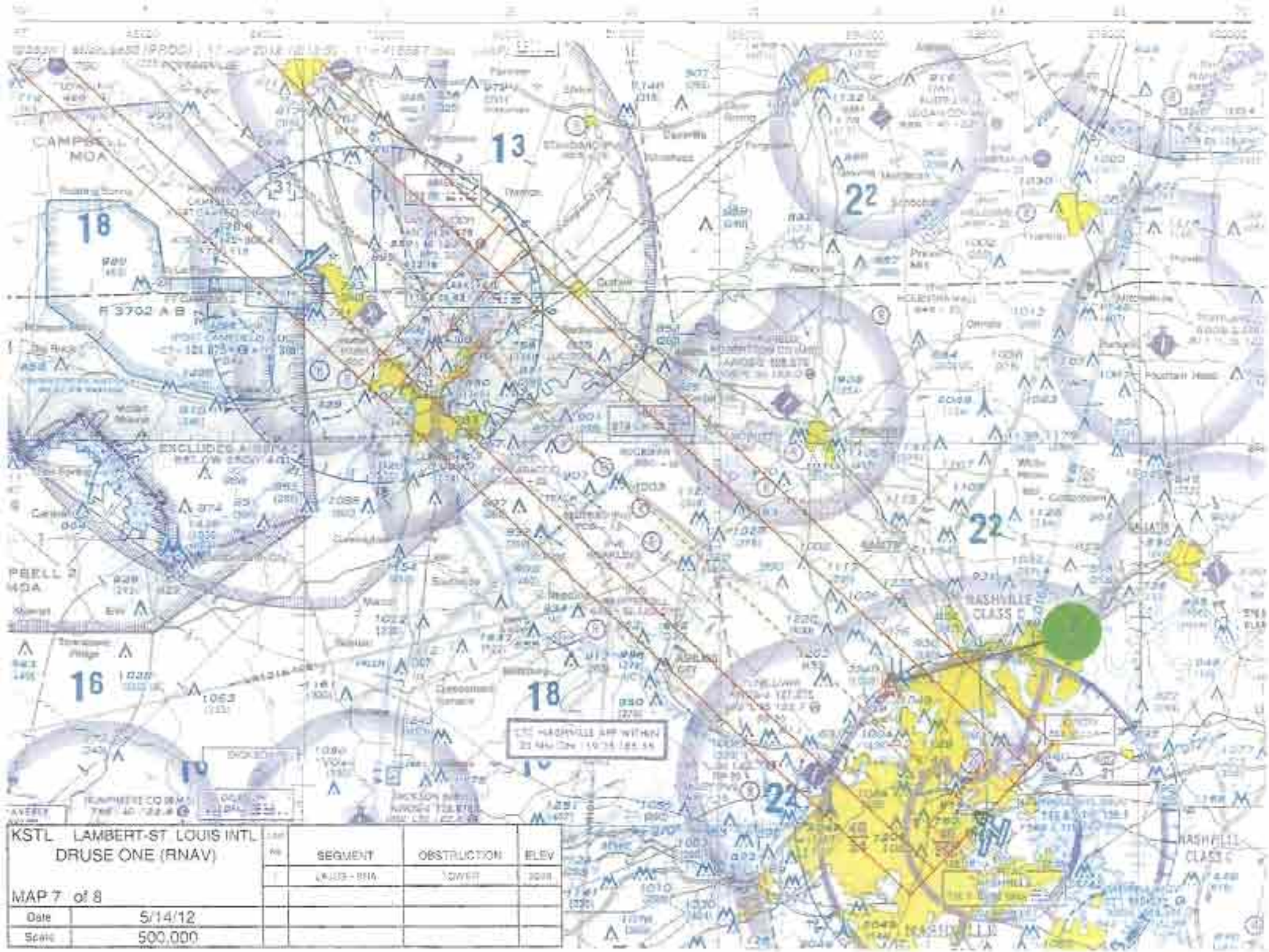


KSTL LAMBERT-ST. LOUIS INTL DRUSE ONE (RNAV)				
MAP 5 of 8		SEGMENT	OBSTRUCTION	ELEV
	1	DRUSE - PEYNE	STACK	1135
	2	PEYNE - DENEE	TOWER	980
Date	5/14/12			
Scale	500,000			

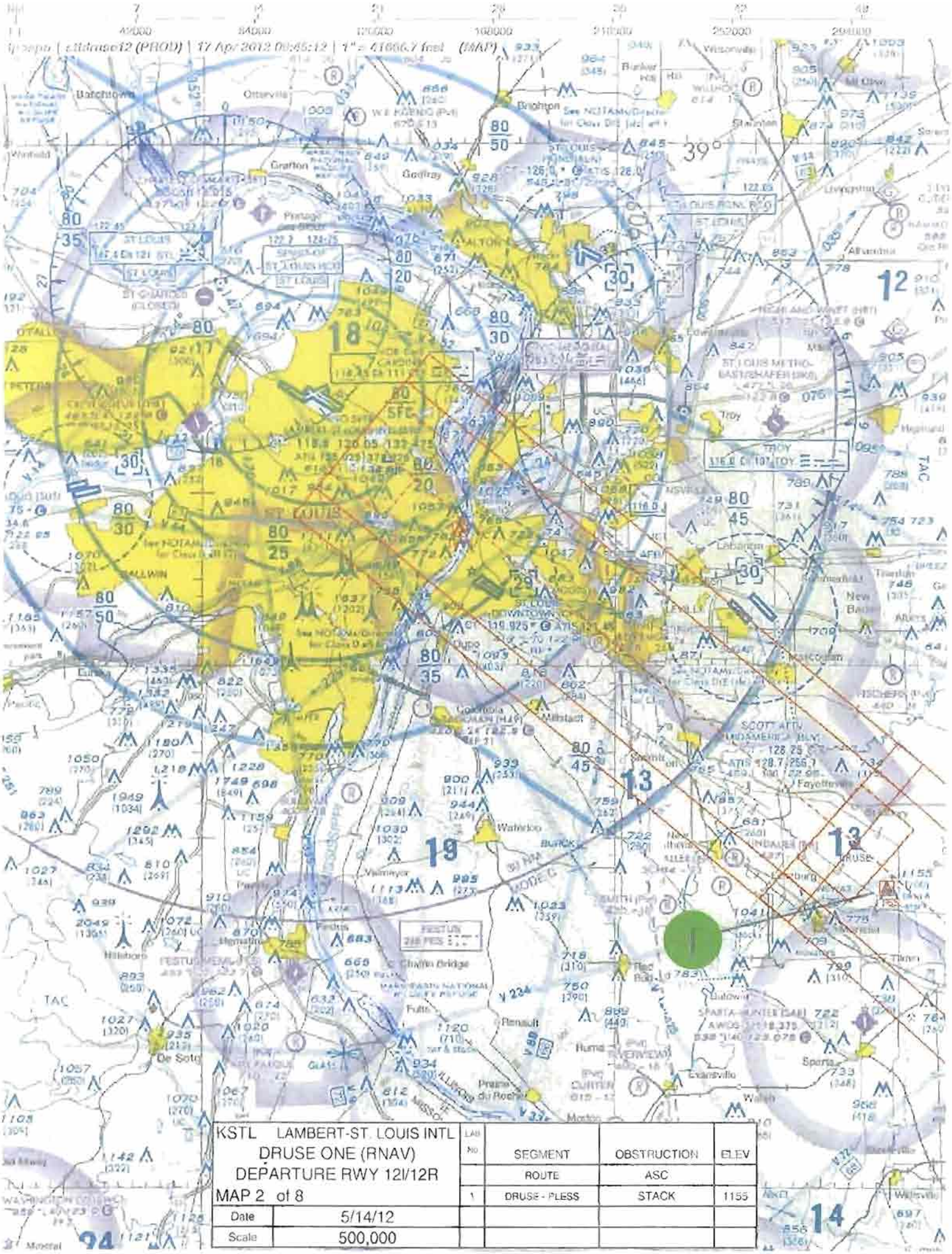


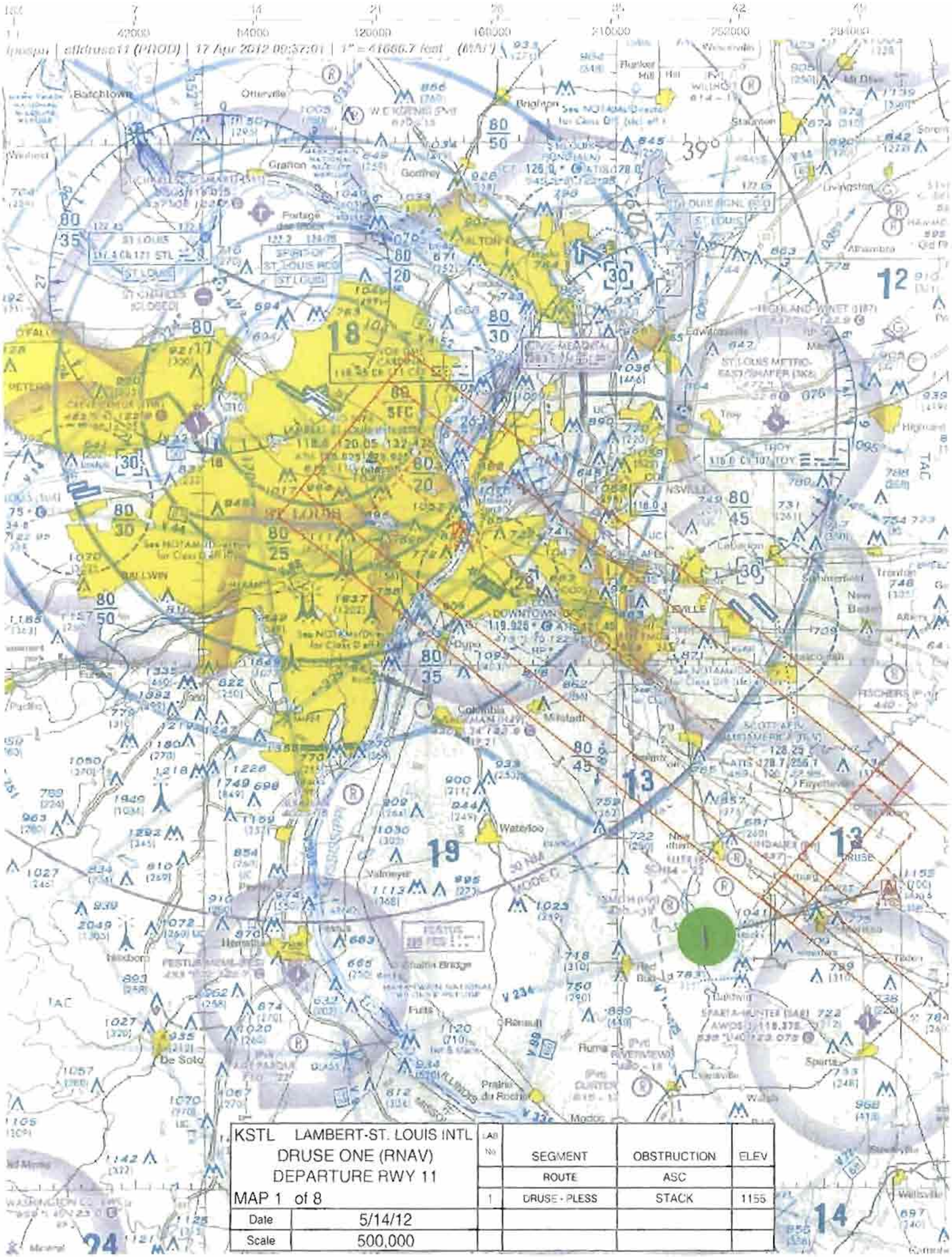
KSTL LAMBERT-ST. LOUIS INTL DRUSE ONE (RNAV)				
MAP 6 of 8				
Date	5/14/12			
Scale	500,000			

LAT IN	SEGMENT	OBSTRUCTION	ELEV
1	DENNI - TINGS	JAO	703
2	TINGS - JAO	TOWER	1614



KSTL LAMBERT-ST LOUIS INTL DRUSE ONE (RNAV)		SEGMENT	OBSTRUCTION	ELEV
MAP 7 of 8		LAUDE - BNA	TOWER	2028
Date	5/14/12			
Scale	500,000			


KSTL LAMBERT-ST. LOUIS INTL
DRUSE ONE (RNAV)
DEPARTURE RWY 12I/12R
MAP 2 of 8
Date 5/14/12
Scale 500,000
LAB No
SEGMENT
OBSTRUCTION
ELEV
ROUTE
ASC
1
DRUSE - PLESS
STACK
1155



KSTL LAMBERT-ST. LOUIS INTL	
DRUSE ONE (RNAV)	
DEPARTURE RWY 11	
MAP 1 of 8	
Date	5/14/12
Scale	500,000

LAB No	SEGMENT	OBSTRUCTION	ELEV
	ROUTE	ASC	
1	DRUSE - PLESS	STACK	1155

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
DRUSE	ONE	DRUSE1.DRUSE	NONE		

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 11: CLIMB HEADING 122.17 TO 1120, THEN DIRECT LUUBE, CROSS LUUBE AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO DRUSE. THENCE...
TAKEOFF RWY 12L, 12R: CLIMB HEADING 122.19 TO 1120, THEN DIRECT HEFNR, CROSS HEFNR AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO DRUSE. THENCE...
TAKEOFF RWY 29: CLIMB HEADING 302.18 TO 1120, THEN DIRECT HAGEE, CROSS HAGEE AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO DRUSE. THENCE...
TAKEOFF RWY 30L: CLIMB HEADING 302.20 TO 1120, THEN DIRECT PYUNG, CROSS PYUNG AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO DRUSE. THENCE...
TAKEOFF RWY 30R: CLIMB HEADING 302.21 TO 1120, THEN DIRECT PYUNG, CROSS PYUNG AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO DRUSE. THENCE...

... (TRANSITION). MAINTAIN 5000, EXPECT FILED ALTITUDE 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
NASHVILLE	DRUSE1.BNA	DRUSE	PLESS	TRACK 131.31	46.98	FL 180	2200	
		PLESS	DENNI	TRACK 131.78	16.75	FL 180	2000	
		DENNI	TINGS	TRACK 131.93	28.62	FL 180	2100	
		TINGS	LAJUG	TRACK 132.20	61.31	FL 180	2700	
		LAJUG	BNA VORTAC	TRACK 132.76	41.78	FL 180	3100	
DENNI	DRUSE1.DENNI	DRUSE	PLESS	TRACK 131.31	46.98	FL 180	2200	
		PLESS	DENNI	TRACK 131.78	16.75	FL 180	2000	

QUALITY 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
DRUSE	ONE	DRUSE1.DRUSE	NONE		

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: FOR USE BY TURBOJET AIRCRAFT ONLY.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1.
NOTE: ACCELERATE TO 250 KIAS; IF UNABLE, ADVISE ATC.

TAKEOFF MINIMUMS:
RWY 6, 24, NA - AIR TRAFFIC.
RWY 11, 12L, 12R, 29, 30L, 30R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 2500.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 11, MULTIPLE SIGNS, TREES, TOWERS, AND BLDGS BEGINNING 2348 FT FROM DER, 205 FT LEFT OF CENTERLINE, UP TO 219 FT AGL/774 FT MSL. MULTIPLE SIGNS, TREES, TOWERS, AND BLDGS BEGINNING 2363 FT FROM DER, 489 FT RIGHT OF CENTERLINE, UP TO 114 FT AGL/694 FT MSL.

NOTE: RWY 12L, TREE 1331 FT FROM DER, 667 FT RIGHT OF CENTERLINE, 75 FT AGL/654 FT MSL.

NOTE: RWY 12R, TRAFFIC SIGNAL AND SIGN BEGINNING 1413 FT FROM DER, 702 FT RIGHT OF CENTERLINE, UP TO 17 FT AGL/672 FT MSL. TREE 1930 FT FROM DER, 372 FT LEFT OF CENTERLINE, 67 FT AGL/636 FT MSL.

NOTE: RWY 30L, MULTIPLE TREES, POLES, AND ROADS BEGINNING 906 FT FROM DER, 600 FT LEFT OF CENTERLINE, UP TO 84 FT AGL/663 FT MSL. OL ON LOC 614 FT FROM DER, ON CENTERLINE, 9 FT AGL/558 FT MSL. MULTIPLE TREES, POLES, ROADS, TERRAIN, AND BLDGS BEGINNING 283 FT FROM DER, 185 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/684 FT MSL.

NOTE: RWY 30R, OL ON GS 1895 FT FROM DER, 899 FT LEFT OF CENTERLINE, 28 FT AGL/587 FT MSL. MULTIPLE OL ON BLDGS, TREES, AND ELECTRICAL SYSTEM BEGINNING 2039 FT FROM DER, 387 FT RIGHT OF CENTERLINE, UP TO 81 FT AGL/670 FT MSL.

CONTROLLING OBSTACLES:

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KSTL 00 EPOCH YR: 2000.
DME/DME ASSESSMENT: SAT (RNP 2.0)

QUALITY 1 CHECKED

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
DRUSE	ONE	DRUSE1.DRUSE	NONE		

AIRPORTS SERVED:

LAMBERT-ST. LOUIS INTL — ST. LOUIS, MO

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, GND METER, TOWER, DEP CON

FIXES AND/OR NAVAIDS:

REMARKS:

QUALITY CHECKED 1

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
DRUSE	ONE	DRUSE1.DRUSE	NONE		

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

JILL OLSON (STEVEN NELSON) AJV-353 5/14/2012

APPROVED BY:

LARRY STROUT AJV-353

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, STL DEP CON, ZKC ARTCC

CHANGES:

ORIGINAL

REASONS:

FPT REQUEST

06/21/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 05/14/2012.
1. MEA FROM DRUSE TO PLESS CHANGED FROM 9500 TO FL180.

06/22/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/21/2012.
1. ADDED DENNI TRANSITION.

QUALITY CHECKED 1

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
DRUSE	ONE	DRUSE1.DRUSE	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW11 (AER)	384535.83N/0902435.55W	N	-	-	-	-			
1120 MSL	-	-	-	VA	122.17	-			CG 500 FT/NM TO 2500
LUUBE	384208.40N/0901735.03W	Y	FB	DF	-	-	AT/ABOVE 2500		
DRUSE	381945.54N/0894219.40W	Y	FB	TF	128.75	35.58			
RW12L (AER)	384506.41N/0902158.66W	N	-	-	-	-			
1120 MSL	-	-	-	VA	122.19	-			CG 500 FT/NM TO 2500
HEFNR	384206.39N/0901624.55W	Y	FB	DF	-	-	AT/ABOVE 2500		
DRUSE	381945.54N/0894219.40W	Y	FB	TF	129.67	34.84			
RW12R (AER)*	384511.59N/0902239.98W*	N	-	-	-	-			*DISPL THLD (467)
1120 MSL	-	-	-	VA	122.19	-			CG 500 FT/NM TO 2500
HEFNR	384206.39N/0901624.55W	Y	FB	DF	-	-	AT/ABOVE 2500		
DRUSE	381945.54N/0894219.40W	Y	FB	TF	129.67	34.84			
RW29 (AER)	384448.46N/0902259.39W	N	-	-	-	-			
1120 MSL	-	-	-	VA	302.18	-			CG 500 FT/NM TO 2500
HAGEE	384735.74N/0902840.90W	Y	FB	DF	-	-	AT/ABOVE 2500		
WAARN	384536.12N/0903229.93W	Y	FB	TF	236.31	3.59			
ELDBB	384116.21N/0903249.96W	Y	FB	TF	183.46	4.34			
BERAA	383214.75N/0902447.49W	Y	FB	TF	145.00	11.00			
DRUSE	381945.54N/0894219.40W	Y	FB	TF	110.28	35.62			
RW30L (AER)*	384417.08N/0902049.42W*	N	-	-	-	-			*DISPL THLD (201)
1120 MSL	-	-	-	VA	302.20	-			CG 500 FT/NM TO 2500
PYUNG	384718.73N/0902700.07W	Y	FB	DF	-	-	AT/ABOVE 2500		
ALLNT	384502.97N/0903108.69W	Y	FB	TF	235.13	3.95			
ELDBB	384116.21N/0903249.96W	Y	FB	TF	199.29	4.00			
BERAA	383214.75N/0902447.49W	Y	FB	TF	145.00	11.00			
DRUSE	381945.54N/0894219.40W	Y	FB	TF	110.28	35.62			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
DRUSE	ONE	DRUSE1.DRUSE	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW30R (AER)	384418.99N/0902022.51W	N	-	-	-	-			
1120 MSL	-	-	-	VA	302.21	-			CG 500 FT/NM TO 2500
PYUNG	384718.73N/0902700.07W	Y	FB	DF	-	-	AT/ABOVE 2500		
ALLNT	384502.97N/0903108.69W	Y	FB	TF	235.13	3.95			
ELDBB	384116.21N/0903249.96W	Y	FB	TF	199.29	4.00			
BERAA	383214.75N/0902447.49W	Y	FB	TF	145.00	11.00			
DRUSE	381945.54N/0894219.40W	Y	FB	TF	110.28	35.62			
DRUSE	381945.54N/0894219.40W	Y	-	IF	-	-			DRUSE1.BNA
PLESS	374834.48N/0885747.48W	Y	FB	TF	131.31	46.98			
DENNI	373722.84N/0884203.90W	Y	FB	TF	131.78	16.75			
TINGS	371810.87N/0881522.30W	Y	FB	TF	131.93	28.62			
LAJUG	363643.52N/0871857.34W	Y	FB	TF	132.20	61.31			
BNA VORTAC	360813.06N/0864105.18W	Y	FB	TF	132.76	41.78			
DRUSE	381945.54N/0894219.40W	Y	-	IF	-	-			DRUSE1.DENNI
PLESS	374834.48N/0885747.48W	Y	FB	TF	131.31	46.98			
DENNI	373722.84N/0884203.90W	Y	FB	TF	131.78	16.75			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
DRUSE RNAV	ONE	DRUSE1.DRUSE	NONE		

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BNA   K7011410VTH  N36081306W086410518    N36081306W086410518W0020005662     NARNASHVILLE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ALLNT K30    W     N38450297W090310869                    W0009     NAR           ALLNT
        SUSAEAENRT   BERAA K30    W     N38321475W090244749                    W0009     NAR           BERAA
        SUSAEAENRT   DENNI K50    C   H N37372284W088420390                    W0021     NAR           DENNI
        SUSAEAENRT   DRUSE K50    W     N38194554W089421940                    W0015     NAR           DRUSE
        SUSAEAENRT   ELDBB K30    W     N38411621W090324996                    W0009     NAR           ELDBB
        SUSAEAENRT   HAGEE K30    W     N38473574W090284090                    W0009     NAR           HAGEE
        SUSAEAENRT   HEFNR K30    W     N38420639W090162455                    W0011     NAR           HEFNR
        SUSAEAENRT   LAJUG K70    C   H N36364352W087185734                    W0030     NAR           LAJUG
        SUSAEAENRT   LUUBE K30    W     N38420840W090173503                    W0010     NAR           LUUBE
        SUSAEAENRT   PLESS K50    C   H N37483448W088574748                    W0020     NAR           PLESS
        SUSAEAENRT   PYUNG K30    W     N38471873W090270007                    W0009     NAR           PYUNG
        SUSAEAENRT   TINGS K50    C   H N37181087W088152230                    W0024     NAR           TINGS
        SUSAEAENRT   WAARN K30    W     N38453612W090322993                    W0009     NAR           WAARN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3ASTL     0     110YHN38445531W090221210E000000618         1800018000C    MNAR    LAMBERT-ST LOUIS INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3DDRUSE14RW11  010         0        VA                     1222        + 01120     18000
        SUSAP KSTLK3DDRUSE14RW11  020LUUBEK3EA0E    010DF                                + 02500
        SUSAP KSTLK3DDRUSE14RW11  030DRUSEK5EA0EE   010TF                     12880356
        SUSAP KSTLK3DDRUSE14RW12B 010         0        VA                     1222        + 01120     18000
        SUSAP KSTLK3DDRUSE14RW12B 020HEFNRK3EA0E    010DF                                + 02500
        SUSAP KSTLK3DDRUSE14RW12B 030DRUSEK5EA0EE   010TF                     12970348
        SUSAP KSTLK3DDRUSE14RW29  010         0        VA                     3022        + 01120     18000
        SUSAP KSTLK3DDRUSE14RW29  020HAGEEK3EA0E    010DF                                + 02500
        SUSAP KSTLK3DDRUSE14RW29  030WAARNK3EA0E    010TF                     23630036
        SUSAP KSTLK3DDRUSE14RW29  040ELDBBK3EA0E    010TF                     18350043
        SUSAP KSTLK3DDRUSE14RW29  050BERAAK3EA0E    010TF                     14500110
        SUSAP KSTLK3DDRUSE14RW29  060DRUSEK5EA0EE   010TF                     11030356
        SUSAP KSTLK3DDRUSE14RW30B 010         0        VA                     3022        + 01120     18000
        SUSAP KSTLK3DDRUSE14RW30B 020PYUNGK3EA0E    010DF                                + 02500
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
DRUSE RNAV	ONE	DRUSE1.DRUSE	NONE		

```
SUSAP KSTLK3DDRUSE14RW30B 030ALLNTK3EA0E    010TF                    23510040
SUSAP KSTLK3DDRUSE14RW30B 040ELDBBK3EA0E    010TF                    19930040
SUSAP KSTLK3DDRUSE14RW30B 050BERAAK3EA0E    010TF                    14500110
SUSAP KSTLK3DDRUSE14RW30B 060DRUSEK5EA0EE   010TF                    11030356
SUSAP KSTLK3DDRUSE16BNA   010DRUSEK5EA0E       IF                                   18000
SUSAP KSTLK3DDRUSE16BNA   020PLESSK5EA0E    010TF                    13130470
SUSAP KSTLK3DDRUSE16BNA   030DENNIK5EA0E    010TF                    13180168
SUSAP KSTLK3DDRUSE16BNA   040TINGSK5EA0E    010TF                    13190286
SUSAP KSTLK3DDRUSE16BNA   050LAJUGK7EA0E    010TF                    13220613
SUSAP KSTLK3DDRUSE16BNA   060BNA  K7D 0VE   010TF                    13280418
SUSAP KSTLK3DDRUSE16DENNI 010DRUSEK5EA0E       IF                                   18000
SUSAP KSTLK3DDRUSE16DENNI 020PLESSK5EA0E    010TF                    13130470
SUSAP KSTLK3DDRUSE16DENNI 030DENNIK5EA0EE   010TF                    13180168
```

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3GRW11     0090011222 N38453583W090243555-0700    +0157000618000059150IIOGZ3
        SUSAP KSTLK3GRW12L    0090031222 N38450641W090215866+0800    +0129700528000054150IILDZ3
        SUSAP KSTLK3GRW12R    0110191222 N38451159W090223998+0400    +0133200540046754200IILMR1
        SUSAP KSTLK3GRW29     0090013022 N38444846W090225939+0700    +0138100556000056150IIRQN1
        SUSAP KSTLK3GRW30L    0110193022 N38441708W090204942-0400    +0146300583020158200IIBKY1    IRMKL
        SUSAP KSTLK3GRW30R    0090033022 N38441899W090202251-0800    +0152900605000057150IISJW3
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
DRUSE RNAV	ONE	DRUSE1.DRUSE	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW11		010		VA		FB		122.2()		AA 01120	
	RW11	LUUBE	020		DF		FB	1.0			AA 02500	
	RW11	DRUSE	030		TF		FB	1.0	128.8()	035.6		
	RW12B		010		VA		FB		122.2()		AA 01120	
	RW12B	HEFNR	020		DF		FB	1.0			AA 02500	
	RW12B	DRUSE	030		TF		FB	1.0	129.7()	034.8		
	RW29		010		VA		FB		302.2()		AA 01120	
	RW29	HAGEE	020		DF		FB	1.0			AA 02500	
	RW29	WAARN	030		TF		FB	1.0	236.3()	003.6		
	RW29	ELDBB	040		TF		FB	1.0	183.5()	004.3		
	RW29	BERAA	050		TF		FB	1.0	145.0()	011.0		
	RW29	DRUSE	060		TF		FB	1.0	110.3()	035.6		
	RW30B		010		VA		FB		302.2()		AA 01120	
	RW30B	PYUNG	020		DF		FB	1.0			AA 02500	
	RW30B	ALLNT	030		TF		FB	1.0	235.1()	004.0		
	RW30B	ELDBB	040		TF		FB	1.0	199.3()	004.0		
	RW30B	BERAA	050		TF		FB	1.0	145.0()	011.0		
	RW30B	DRUSE	060		TF		FB	1.0	110.3()	035.6		
	BNA	DRUSE	010		IF		FB					
	BNA	PLESS	020		TF		FB	1.0	131.3()	047.0		
	BNA	DENNI	030		TF		FB	1.0	131.8()	016.8		
	BNA	TINGS	040		TF		FB	1.0	131.9()	028.6		
	BNA	LAJUG	050		TF		FB	1.0	132.2()	061.3		
	BNA	BNA	060		TF		FB	1.0	132.8()	041.8		
	DENNI	DRUSE	010		IF		FB					
	DENNI	PLESS	020		TF		FB	1.0	131.3()	047.0		
	DENNI	DENNI	030		TF		FB	1.0	131.8()	016.8		

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BNA	N360813.06	W0864105.18	N3608.218	W08641.086
	ALLNT	N384502.97	W0903108.69	N3845.050	W09031.145
	BERAA	N383214.75	W0902447.49	N3832.246	W09024.792
	DENNI	N373722.84	W0884203.90	N3737.381	W08842.065
	DRUSE	N381945.54	W0894219.40	N3819.759	W08942.323
	ELDBB	N384116.21	W0903249.96	N3841.270	W09032.833
	HAGEE	N384735.74	W0902840.90	N3847.596	W09028.682
	HEFNR	N384206.39	W0901624.55	N3842.107	W09016.409
	LAJUG	N363643.52	W0871857.34	N3636.725	W08718.956
	LUUBE	N384208.40	W0901735.03	N3842.140	W09017.584
	PLESS	N374834.48	W0885747.48	N3748.575	W08857.791
	PYUNG	N384718.73	W0902700.07	N3847.312	W09027.001

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
DRUSE RNAV	ONE	DRUSE1.DRUSE	NONE		

TINGS	N371810.87	W0881522.30	N3718.181	W08815.372
WAARN	N384536.12	W0903229.93	N3845.602	W09032.499
RW11	N384535.83	W0902435.55	N3845.597	W09024.593
RW12L	N384506.41	W0902158.66	N3845.107	W09021.978
RW12R	N384511.59	W0902239.98	N3845.193	W09022.666
RW29	N384448.46	W0902259.39	N3844.808	W09022.990
RW30L	N384417.08	W0902049.42	N3844.285	W09020.824
RW30R	N384418.99	W0902022.51	N3844.317	W09020.375

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW11	00618	59
RW12L	00528	54
RW12R	00540	54
RW29	00556	56
RW30L	00583	58
RW30R	00605	57

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ALLNT **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384502.97N/0903108.69W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BERAA **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 383214.75N/0902447.49W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DENNI **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 373722.84N/0884203.90W **TYPE:** WP, INT, DME

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

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	ST LOUIS	STL	VORTAC	H	129.82	130.82	112.22	112.22		18000	45000
2	POCKET CITY	PXV	VORTAC	H	245.00	248.00		48.24		5000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PXV	VORTAC	R-245	49	5000	18400

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
POCKET CITY (FAC 2) AND ST LOUIS (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PLESS	1		KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS	1		KBLV	BELLEVILLE	IL (US)
DP	PLESS	1		KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	PLESS	1		KSTL	ST LOUIS	MO (US)
DP	PLESS	1		KSUS	ST LOUIS	MO (US)
EN ROUTE	J45	1, 2				(US)
EN ROUTE	Q19					(US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. ADDED FIX TYPE WP.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/05/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC, ZME
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: DRUSE **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 381945.54N/0894219.40W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ELDBB **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384116.21N/0903249.96W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: HAGEE **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384735.74N/0902840.90W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BRAKK (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	WHRLI (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: HEFNR **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384206.39N/0901624.55W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BRAKK (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	WHRLI (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LAJUG **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 363643.52N/0871857.34W **TYPE:** WP, INT, DME

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

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	NASHVILLE	BNA	VORTAC	H	315.14	313.14	41.78	41.78		18000	45000
2	BOWLING GREEN	BWG	VORTAC	H	243.98	245.98	46.14	46.14		18000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

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	NE	BWG	VORTAC	244.00	244.00	R		10	18000	45000	18	31

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
NASHVILLE (FAC 1) AND BOWLING GREEN (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
EN ROUTE	J45	1, 2				(US)
EN ROUTE	J6	1, 2				(US)
EN ROUTE	Q19					(US)
OTHER	ARRIVAL FIX	1, 2	1	KHOP	FORT CAMPBELL/HOPKINSVILLE	KY (US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. CHANGED STATE FROM KY TO TN.
2. ADDED FIX TYPE WP.
3. ADDED DIST FROM FAC NM TO FAC 1 AND FAC 2.
4. ADDED TEMPLATES MIN 18 TO HOLDING PATTERN 1.
5. ADDED PRECIPITOUS TERRAIN REMARK.
6. ADDED FACILITY USED TO ESTABLISH FIX COORDINATES REMARK.
7. UPDATED FIX USE.
8. UPDATED REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 04/06/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZME
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LUUBE **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384208.40N/0901735.03W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BRAKK (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	WHRLI (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: PLESS **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 374834.48N/0885747.48W **TYPE:** WP, INT, DME

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

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	FARMINGTON	FAM	VORTAC	H	080.93	081.93	61.03	61.03		18000	45000
2	CENTRALIA	ENL	VORTAC	H	161.72	165.72		37.74		18000	45000
3	ST LOUIS	STL	VORTAC	H	129.82	130.82	95.46	95.46		18000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
FARMINGTON (FAC 1) AND CENTRALIA (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PLESS	3		KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS	3		KBLV	BELLEVILLE	IL (US)
DP	PLESS	3		KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	PLESS	3		KSTL	ST LOUIS	MO (US)
DP	PLESS	3		KSUS	ST LOUIS	MO (US)
EN ROUTE	J45	3				(US)
EN ROUTE	J78-112	1, 2				(US)
EN ROUTE	Q19					(US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. CHANGED FAC 3 DME AND DIST FROM FAC NM FROM 95.45 TO 95.46.

DEVELOPED BY: **DATE:** 04/06/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: PYUNG **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384718.73N/0902700.07W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BRAKK (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	WHRLI (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: TINGS **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 371810.87N/0881522.30W **TYPE:** WP, INT, DME

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

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	POCKET CITY	PXV	VORTAC	H	209.29	212.29	44.25	44.25		18000	45000
2	NASHVILLE	BNA	VORTAC	H	315.14	313.14	103.09	103.09		18000	45000
3	BOWLING GREEN	BWG	VORTAC	H	283.00	285.00		89.84		18000	24000
4	FARMINGTON	FAM	VORTAC	H	101.62	102.62		97.02		18000	24000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
POCKET CITY (FAC 1) AND NASHVILLE (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
EN ROUTE	J29	1, 2				(US)
EN ROUTE	J45	1, 2				(US)
EN ROUTE	Q19					(US)
STAR	HEHAW	1, 2, 3, 4		KMBT	MURFREESBORO	TN (US)
STAR	HEHAW	1, 2, 3, 4		KBNA	NASHVILLE	TN (US)
STAR	HEHAW	1, 2, 3, 4		KJWN	NASHVILLE	TN (US)
STAR	HEHAW	1, 2, 3, 4		KMQY	SMYRNA	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. ADDED FIX TYPE WP.
2. ADDED DIST FROM FAC NM TO FAC 3.
3. ADDED FAC 4.
4. ADDED FACILITIES USED TO ESTABLISH FIX COORDINATES REMARK.
5. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/06/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZME, ZKC, ZID
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WAARN **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384536.12N/0903229.93W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BERYY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	BGOOD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHUUC (RNAV)			KSTL	ST LOUIS	MO (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JAHNY (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY CHECKED

"INFO ONLY"

RADIO FIX AND HOLDING DATA RECORD

NAME: NASHVILLE VORTAC **STATE:** TN **COUNTRY:** US

LATITUDE/LONGITUDE: 360813.06N/0864105.18W **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	NASHVILLE	BNA	VORTAC	H							45000

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	NW	BNA	VORTAC	315.19	135.19	R	1		3000	6000	4	5
2	NW	BNA	VORTAC	336.00	156.00	R	1-1 1/2		7000	16000	8	15
3	E	BNA	VORTAC	080.87	260.87	L		15	18000	45000	28	29
4	E		WP	078.00	258.00	L		15	18000	45000	28	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (47-000685)	361550.00N/0864739.00W	2049	3D
2	230	TOWER (47-000685)	361550.00N/0864739.00W	2049	3D

REASON FOR NONSTANDARD HOLDING:
PAT 4 ATC REQUEST
PAT 3 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
DO NOT CHART HOLD PAT 2/USED FOR ATC OVERFLOW.
HOLD PAT 1 CONTROLLING OBSTACLE IS IN THE SECONDARY AREA.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BIRMINGHAM			KBHM	BIRMINGHAM	AL (US)
DP	HUNTSVILLE			KHSV	HUNTSVILLE	AL (US)
DP	PLESS			KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS			KBLV	BELLEVILLE	IL (US)
DP	PLESS			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	DRUSE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSUS	ST LOUIS	MO (US)
DP	JACKSON			KJAN	JACKSON	MS (US)
DP	ZAVER (RNAV)			KCLT	CHARLOTTE	NC (US)
DP	CHATTANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
DP	MEMPHIS			KMEM	MEMPHIS	TN (US)
DP	TITAN			KBNA	NASHVILLE	TN (US)
EN ROUTE	J39					(US)
EN ROUTE	J42					(US)
EN ROUTE	J45					(US)
EN ROUTE	J46					(US)
EN ROUTE	J73					(US)
EN ROUTE	Q19					(US)
EN ROUTE	Q32					(US)
EN ROUTE	Q34					(US)
EN ROUTE	Q36					(US)
EN ROUTE	V140					(US)
EN ROUTE	V49					(US)
IAP	RNAV (GPS) RWY 18			KHOP	FT CAMPBELL	KY (US)
IAP	RNAV (GPS) RWY 23			KHOP	FT CAMPBELL	KY (US)
IAP	RNAV (GPS) RWY 35			KM33	GALLATIN	TN (US)
IAP	VOR/DME-A			KM33	GALLATIN	TN (US)
IAP	NDB RWY 19			KM54	LEBANON	TN (US)
IAP	RNAV (GPS) RWY 01			KM54	LEBANON	TN (US)
IAP	RNAV (GPS) RWY 19			KM54	LEBANON	TN (US)
IAP	VOR/DME-A			KM54	LEBANON	TN (US)
IAP	NDB RWY 20			KLUG	LEWISBURG	TN (US)
IAP	NDB RWY 18			KMBT	MURFREESBORO	TN (US)
IAP	ILS RWY 2R (CAT II)			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 20L			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 20R			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 2C			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 2L			KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 2R			KBNA	NASHVILLE	TN (US)

QUALITY CHECKED

IAP	ILS OR LOC RWY 31		KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2L (CAT II)		KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2L (CAT III)		KBNA	NASHVILLE	TN (US)
IAP	ILS RWY 2R (CAT III)		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) RWY 13		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 20L		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 20R		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2L		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 2R		KBNA	NASHVILLE	TN (US)
IAP	RNAV (GPS) Y RWY 31		KBNA	NASHVILLE	TN (US)
IAP	VOR/DME RWY 13		KBNA	NASHVILLE	TN (US)
IAP	ILS OR LOC/DME RWY 20		KJWN	NASHVILLE	TN (US)
IAP	ILS OR LOC RWY 32		KMQY	SMYRNA	TN (US)
IAP	NDB RWY 32		KMQY	SMYRNA	TN (US)
IAP	VOR/DME RWY 14	1	KMQY	SMYRNA	TN (US)
IAP	VOR/DME RWY 32		KMQY	SMYRNA	TN (US)
IAP	LOC RWY 4 (ALT MISS)	1	KM91	SPRINGFIELD	TN (US)
STAR	ERLIN (RNAV)		KATL	ATLANTA	GA (US)
STAR	HERKO (RNAV)		KATL	ATLANTA	GA (US)
STAR	ROME		KATL	ATLANTA	GA (US)
STAR	RPTOR (RNAV)		KATL	ATLANTA	GA (US)
STAR	VIKNN (RNAV)		KATL	ATLANTA	GA (US)
STAR	QBALL		KSTL	ST LOUIS	MO (US)
STAR	LTOWN (RNAV)	4	KMEM	MEMPHIS	TN (US)
STAR	WLDER	3	KMEM	MEMPHIS	TN (US)
STAR	GRAHAM		KMBT	MURFREESBORO	TN (US)
STAR	GUITR		KMBT	MURFREESBORO	TN (US)
STAR	HEHAW		KMBT	MURFREESBORO	TN (US)
STAR	VOLLS		KMBT	MURFREESBORO	TN (US)
STAR	GRAHAM		KBNA	NASHVILLE	TN (US)
STAR	GUITR		KBNA	NASHVILLE	TN (US)
STAR	HEHAW		KBNA	NASHVILLE	TN (US)
STAR	VOLLS		KBNA	NASHVILLE	TN (US)
STAR	GRAHAM		KJWN	NASHVILLE	TN (US)
STAR	GUITR		KJWN	NASHVILLE	TN (US)
STAR	HEHAW		KJWN	NASHVILLE	TN (US)
STAR	VOLLS		KJWN	NASHVILLE	TN (US)
STAR	GRAHAM		KMQY	SMYRNA	TN (US)
STAR	GUITR		KMQY	SMYRNA	TN (US)
STAR	HEHAW		KMQY	SMYRNA	TN (US)
STAR	VOLLS		KMQY	SMYRNA	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. ADDED HOLDING PAT 3 AND PAT 4 TO SUPPORT MEM STARS.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/14/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

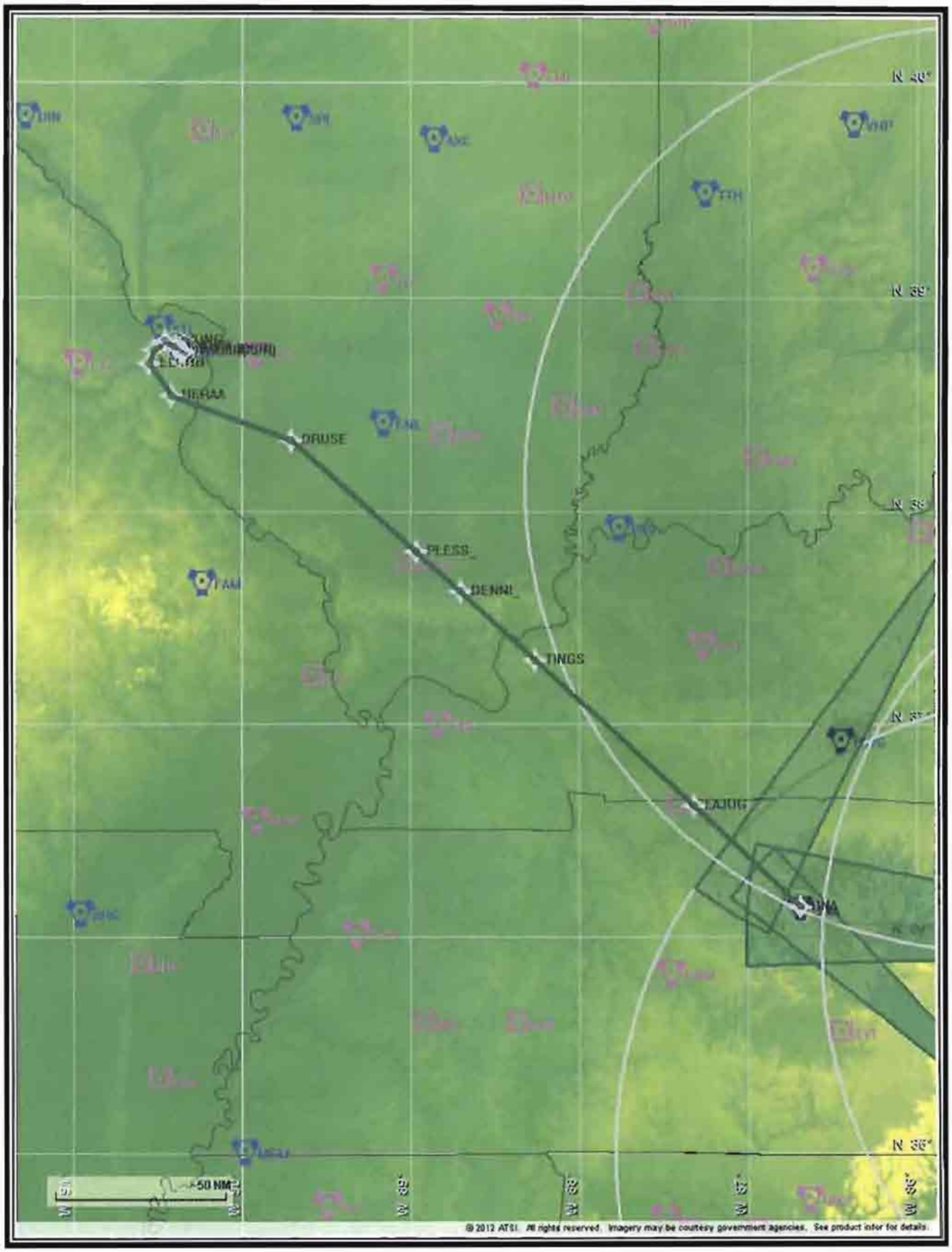
DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZME
ATC FACILITY: BNA APP CON
OTHER:

Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 1:05:14 PM
Input File:	DRUSE RW30R BNA 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	
TERPS	

© 1996-2012 Air Traffic Simulation, Inc. All rights reserved. RNAV-Pro, DrawSpace and the ATSI logo are trademarks of Air Traffic Simulation, Inc. DTED® courtesy U.S. Geological Survey. DTED is a registered trademark of the National Geospatial-Intelligence Agency. Blue Marble imagery in this program produced by NASA and the Earth Observatory (http://earthobservatory.nasa.gov.) This product has not been endorsed or otherwise approved by the National Geospatial-Intelligence Agency, United States Department of Defense, or the United States Federal Aviation Administration. Portions of this product sponsored by the United States Federal Aviation Administration, DTFA-03-01-D-12006, DTFAAC-06-D-00013. Sectional charts should not be used for actual flight navigation.


DRUSE
PLESS
DENNI
TINGS
50 NM
© 2012 ATSI. All rights reserved. Imagery may be courtesy government agencies. See product infor for details.

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW30R(	WP	N 38° 44' 18.99" W 90° 20' 22.51"	604.5	VNAV	0.0	Fly Over	TF
RW12L(	WP	N 38° 45' 6.41" W 90° 21' 58.66"	563.3	VNAV	130.0	Fly Over	VA
GH30R	WP	N 38° 45' 44.28" W 90° 23' 15.46"	1120.0	VNAV	145.0	Fly Over	DF
PYUNG	WP	N 38° 47' 18.73" W 90° 27' 0.07"	2500.0	VNAV	180.0	Fly By	TF
ALLNT	WP	N 38° 45' 2.97" W 90° 31' 8.69"	3290.2	VNAV	180.0	Fly By	TF
ELDBB	WP	N 38° 41' 16.21" W 90° 32' 49.96"	4090.2	VNAV	180.0	Fly By	TF
BERAA	WP	N 38° 32' 14.75" W 90° 24' 47.49"	6290.2	VNAV	180.0	Fly By	TF
DRUSE	WP	N 38° 19' 45.54" W 89° 42' 19.40"	13415.2	VNAV	210.0	Fly By	TF
PLESS_	WP	N 37° 48' 34.48" W 88° 57' 47.48"	18000.0	VNAV	240.0	Fly By	TF
DENNI_	WP	N 37° 37' 22.84" W 88° 42' 3.90"	18000.0	VNAV	240.0	Fly By	TF
TINGS	WP	N 37° 18' 10.87" W 88° 15' 22.30"	18000.0	VNAV	240.0	Fly By	TF
LAJUG	WP	N 36° 36' 43.52" W 87° 18' 57.34"	18000.0	VNAV	240.0	Fly By	TF
BNA	WP	N 36° 8' 13.06" W 86° 41' 5.18"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Required IAS at Fly-By WP ELDBB could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -19.95 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

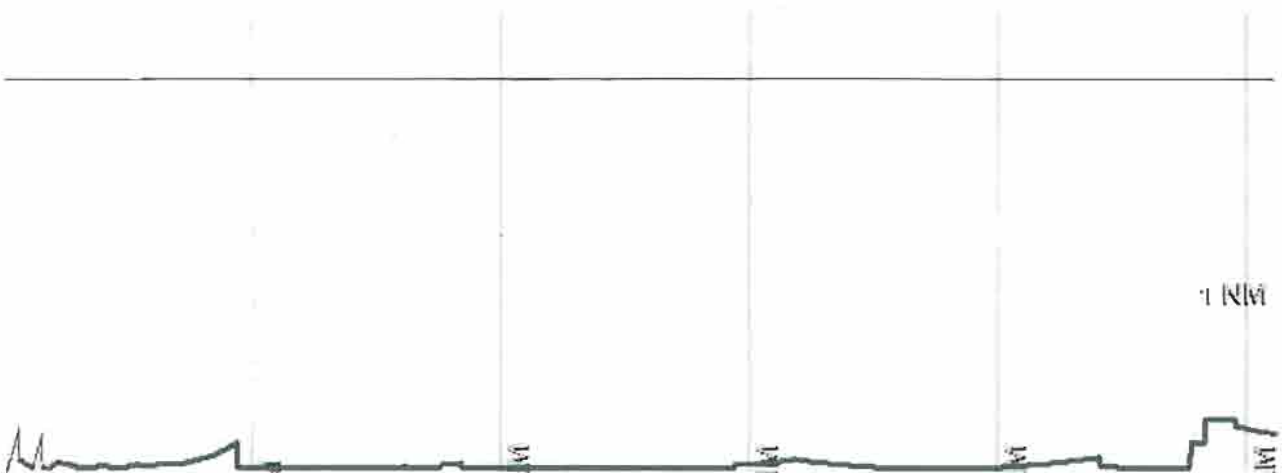
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 1773 Ft.

Total Number of DMEs Used: 15

Maximum DME Error: 0.463 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, ENL, MWA, VNN, PXV, FAM, CNG, BWG, BNA, CCT, IIU, GQO, VXV, SYI



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.583	Enabled	8.7 %	7.8 %
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	Database	NO	1.165	Enabled	16.5 %	15.2 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.573	Enabled	5.6 %	5.1 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.821	Enabled	16.9 %	17.6 %
5	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.977	Enabled	33.0 %	34.3 %
6	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.463	Enabled	9.6 %	9.9 %
7	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.463	Enabled	4.4 %	4.6 %
8	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	Database	NO	0.573	Enabled	37.7 %	39.2 %
9	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	0.463	Enabled	2.4 %	2.5 %
10	CNG	N 37° 0' 31.00" W 88° 50' 12.87"	L	Database	NO	0.463	Enabled	8.2 %	8.5 %
11	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	1.496	Enabled	33.9 %	35.3 %
12	BNA	N 36° 8' 13.08" W 86° 41' 5.18"	H	Database	NO	0.611	Enabled	6.9 %	7.2 %
13	GOO	N 34° 57' 40.54" W 85° 9' 12.14"	H + ESV	User	NO	0.437	Enabled	3.4 %	3.6 %
14	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H + ESV	User	NO	0.445	Enabled	2.3 %	2.4 %
15	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H + ESV	User	NO	0.463	Enabled	3.0 %	3.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.6	FTZ	STL	CSX			
5.6	FTZ	STL	CSX			
9.6	FTZ	STL	CSX			
13.1	FTZ	STL	CSX	TOY		
24.1	FTZ	STL	CSX	TOY	ENL	

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
59.8	ENL	VNN	MWA	TOY		
73.3	ENL	VNN	MWA	CSX	STL	PXV
83.4	ENL	VNN	MWA	PXV	STL	FAM
95.3	ENL	FAM	MWA	PXV	CSX	VNN
107.3	ENL	VNN	MWA	PXV	CSX	FAM
124.0	ENL	FAM	MWA	PXV	CNG	BWG
152.7	ENL	BWG	BNA	PXV	CNG	FAM
172.8	CCT	BWG	BNA	PXV		
214.0	IIU	BWG	BNA	PXV		
232.8	IIU	BWG	BNA	GQO	VXV	SYI

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 18.99" W 90° 20' 22.51"	N 38° 45' 55.28" W 90° 23' 41.89"	3.1
	VOR: CSX	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
	VOR: FTZ	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
	VOR: STL	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
	VOR: TOY	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 45' 55.28" W 90° 23' 41.89"	
2	N 38° 47' 12.25" W 90° 26' 47.05"	N 38° 46' 19.37" W 90° 28' 49.24"	1.9
	VOR: CSX	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 19.37" W 90° 28' 49.24"	
	VOR: FTZ	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 19.37" W 90° 28' 49.24"	
	VOR: STL	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 19.37" W 90° 28' 49.24"	
	VOR: TOY	Available from N 38° 47' 12.25" W 90° 26' 47.05" to N 38° 46' 19.37" W 90° 28' 49.24"	

DME/DME (Continued.)

Return To Summary

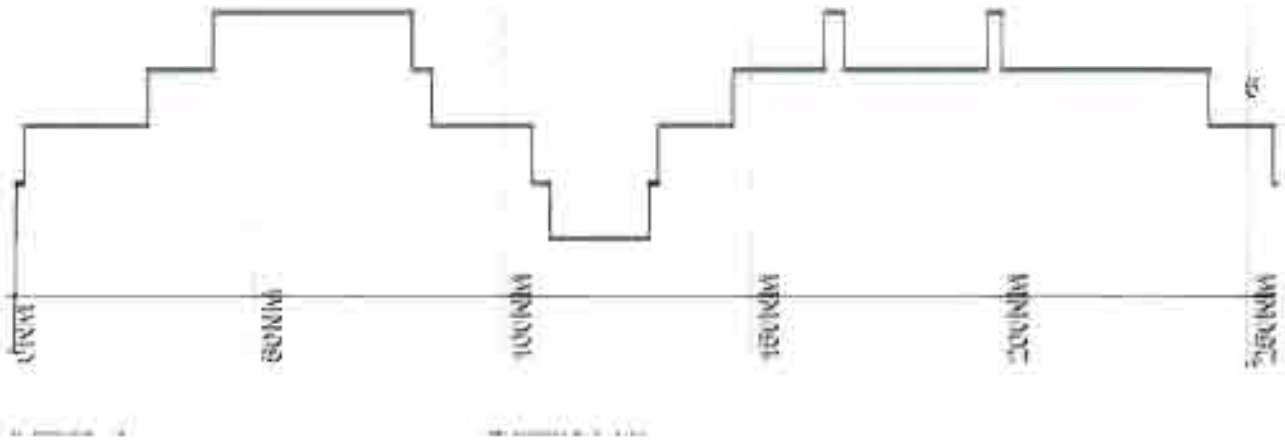
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H	1014.5	115.80	GQO	Used
		ESV: Bearing [True]: 308.0° to 317.0° Bearing [Mag]: 307.0° to 316.0°			Arc Distance: Out to 120.0 NM Altitude: 17000.0 to 35000.0 Ft.		
2	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H	1289.6	116.40	VXV	Used
		ESV: Bearing [True]: 270.0° to 283.0° Bearing [Mag]: 273.0° to 286.0°			Arc Distance: Out to 152.0 NM Altitude: 17000.0 to 25000.0 Ft.		
3	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	720.0	114.80	IIU	Used
		ESV: Bearing [True]: 207.0° to 217.0° Bearing [Mag]: 206.0° to 216.0°			Arc Distance: Out to 140.0 NM Altitude: 17000.0 to 45000.0 Ft.		

Radar Analysis

Return To Summary

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

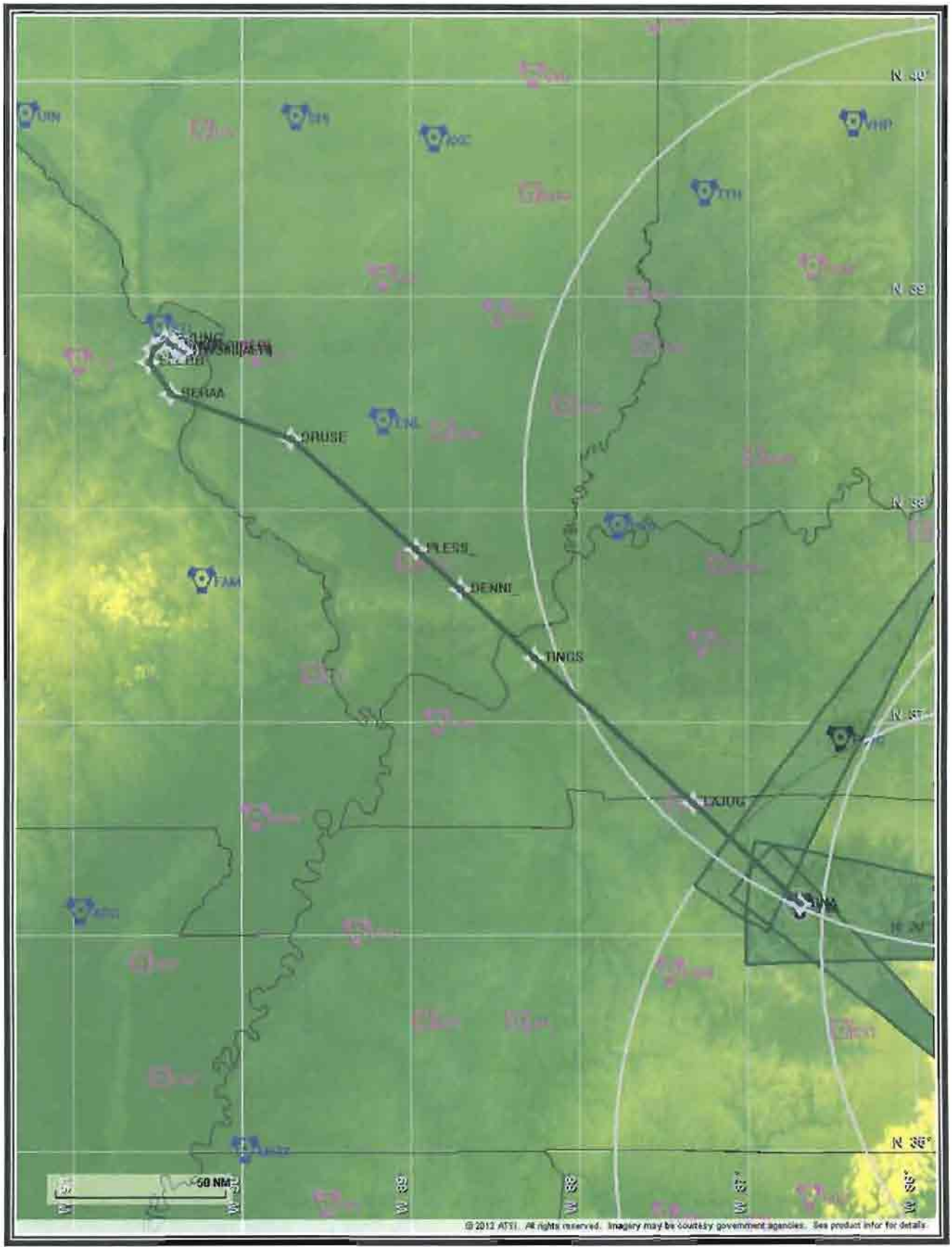


Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 12:40:43 PM
Input File:	DRUSE RW30L BNA 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	**Please Check Flyability Results**
DME/DME	✔	
Radars	✔	
Comms		
TERPS		

© 1996-2012 Air Traffic Simulation, Inc. All rights reserved. RNAV-Pro, DrawSpace and the ATSI logo are trademarks of Air Traffic Simulation, Inc. DTED® courtesy U.S. Geological Survey. DTED is a registered trademark of the National Geospatial-Intelligence Agency. Blue Marble imagery in this program produced by NASA and the Earth Observatory (http://earthobservatory.nasa.gov.) This product has not been endorsed or otherwise approved by the National Geospatial-Intelligence Agency, United States Department of Defense, or the United States Federal Aviation Administration. Portions of this product sponsored by the United States Federal Aviation Administration, DTFA-02-01-D-12906, DTFAAC-05-D-00013. Sectional charts should not be used for actual flight navigation.


N 40°
N 39°
N 38°
N 37°
N 36°
W 90°
W 89°
W 88°
W 87°
W 86°
50 NM
DRUSE
TINGS
TEXIUG
FAM
© 2012 ATSI. All rights reserved. Imagery may be courtesy government agencies. See product infor for details.

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW30L(...	WP	N 38° 44' 17.08" W 90° 20' 49.42"	585.8	VNAV	0.0	Fly Over	TF
RW12R(...	WP	N 38° 45' 14.05" W 90° 22' 44.97"	576.6	VNAV	130.0	Fly Over	VA
GH30L	WP	N 38° 45' 51.06" W 90° 24' 0.06"	1120.0	VNAV	145.0	Fly Over	DF
PYUNG	WP	N 38° 47' 18.73" W 90° 27' 0.07"	2500.0	VNAV	180.0	Fly By	TF
ALLNT	WP	N 38° 45' 2.97" W 90° 31' 8.69"	3290.2	VNAV	180.0	Fly By	TF
ELDBB	WP	N 38° 41' 16.21" W 90° 32' 49.96"	4090.2	VNAV	180.0	Fly By	TF
BERAA	WP	N 38° 32' 14.75" W 90° 24' 47.49"	6290.2	VNAV	180.0	Fly By	TF
DRUSE	WP	N 38° 19' 45.54" W 89° 42' 19.40"	13415.2	VNAV	210.0	Fly By	TF
PLESS_	WP	N 37° 48' 34.48" W 88° 57' 47.48"	18000.0	VNAV	240.0	Fly By	TF
DENNI_	WP	N 37° 37' 22.84" W 88° 42' 3.90"	18000.0	VNAV	240.0	Fly By	TF
TINGS	WP	N 37° 18' 10.87" W 88° 15' 22.30"	18000.0	VNAV	240.0	Fly By	TF
LAJUG	WP	N 36° 36' 43.52" W 87° 18' 57.34"	18000.0	VNAV	240.0	Fly By	TF
BNA	WP	N 36° 8' 13.06" W 86° 41' 5.18"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Required IAS at Fly-By WP ELDBB could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -31.97 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

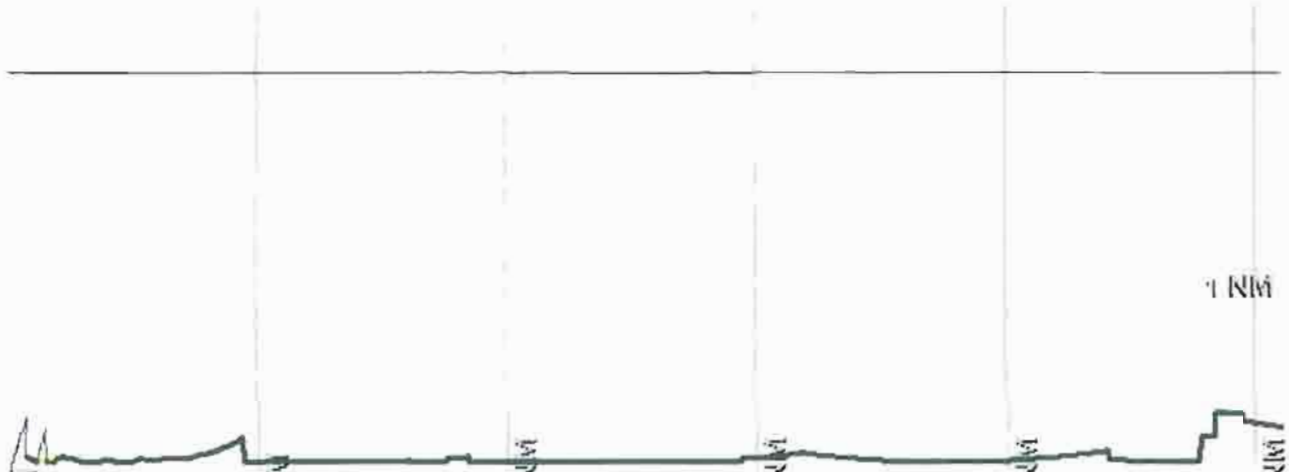
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 1662 Ft.

Total Number of DMEs Used: 15

Maximum DME Error: 0.463 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, ENL, MWA, VNN, PXV, FAM, CNG, BWG, BNA, CCT, IIU, GQO, VXV, SYI



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.563	Enabled	8.5 %	7.6 %
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	Database	NO	1.163	Enabled	16.4 %	15.0 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.569	Enabled	5.6 %	5.1 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.821	Enabled	16.9 %	17.6 %
5	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.977	Enabled	33.0 %	34.4 %
6	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.463	Enabled	9.6 %	10.0 %
7	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.463	Enabled	4.5 %	4.6 %
8	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	Database	NO	0.573	Enabled	37.7 %	39.2 %
9	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	0.463	Enabled	2.4 %	2.5 %
10	CNG	N 37° 0' 31.00" W 88° 50' 12.87"	L	Database	NO	0.463	Enabled	8.2 %	8.5 %
11	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	1.496	Enabled	34.0 %	35.3 %
12	BNA	N 36° 8' 13.06" W 86° 41' 5.18"	H	Database	NO	0.611	Enabled	6.9 %	7.2 %
13	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H + ESV	User	NO	0.447	Enabled	3.4 %	3.6 %
14	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H + ESV	User	NO	0.447	Enabled	2.3 %	2.4 %
15	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H + ESV	User	NO	0.463	Enabled	3.0 %	3.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.9	FTZ	STL	CSX			
5.3	FTZ	STL	CSX			
9.3	FTZ	STL	CSX			
12.7	FTZ	STL	CSX	TOY		
23.8	FTZ	STL	CSX	TOY	ENL	

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
59.5	ENL	VNN	MWA	TOY		
73.0	ENL	VNN	MWA	CSX	STL	PXV
83.1	ENL	VNN	MWA	PXV	STL	FAM
95.0	ENL	FAM	MWA	PXV	CSX	VNN
107.0	ENL	VNN	MWA	PXV	CSX	FAM
123.7	ENL	FAM	MWA	PXV	CNG	BWG
152.3	ENL	BWG	BNA	PXV	CNG	FAM
172.5	CCT	BWG	BNA	PXV		
213.7	IIU	BWG	BNA	PXV		
232.5	IIU	BWG	BNA	GQO	VXV	SYI

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 17.08" W 90° 20' 49.42"	N 38° 46' 1.13" W 90° 24' 20.75"	3.3
	VOR: CSX	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
	VOR: FTZ	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
	VOR: STL	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
	VOR: TOY	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 1.13" W 90° 24' 20.75"	
2	N 38° 47' 11.68" W 90° 26' 49.29"	N 38° 46' 19.36" W 90° 28' 49.24"	1.8
	VOR: CSX	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 19.36" W 90° 28' 49.24"	
	VOR: FTZ	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 19.36" W 90° 28' 49.24"	
	VOR: STL	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 19.36" W 90° 28' 49.24"	
	VOR: TOY	Available from N 38° 47' 11.68" W 90° 26' 49.29" to N 38° 46' 19.36" W 90° 28' 49.24"	

DME/DME (Continued.)

Return To Summary

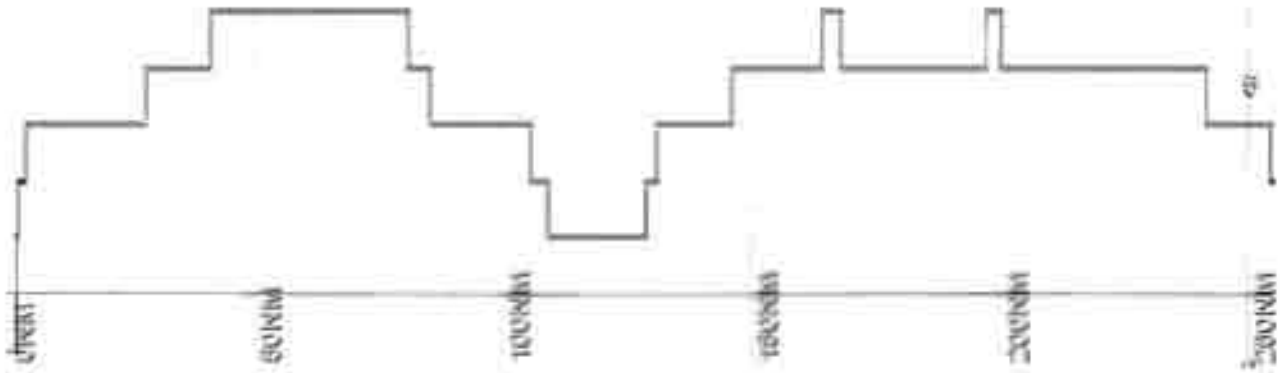
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H	1014.5	115.80	GQO	Used
		ESV: Bearing [True]: 308.0° to 317.0° Bearing [Mag]: 307.0° to 316.0°			Arc Distance: Out to 120.0 NM Altitude: 17000.0 to 35000.0 Ft.		
2	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H	1289.6	116.40	VXV	Used
		ESV: Bearing [True]: 270.0° to 283.0° Bearing [Mag]: 273.0° to 286.0°			Arc Distance: Out to 152.0 NM Altitude: 17000.0 to 25000.0 Ft.		
3	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	720.0	114.80	IIU	Used
		ESV: Bearing [True]: 207.0° to 217.0° Bearing [Mag]: 206.0° to 216.0°			Arc Distance: Out to 140.0 NM Altitude: 17000.0 to 45000.0 Ft.		

Radar Analysis

Return To Summary

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

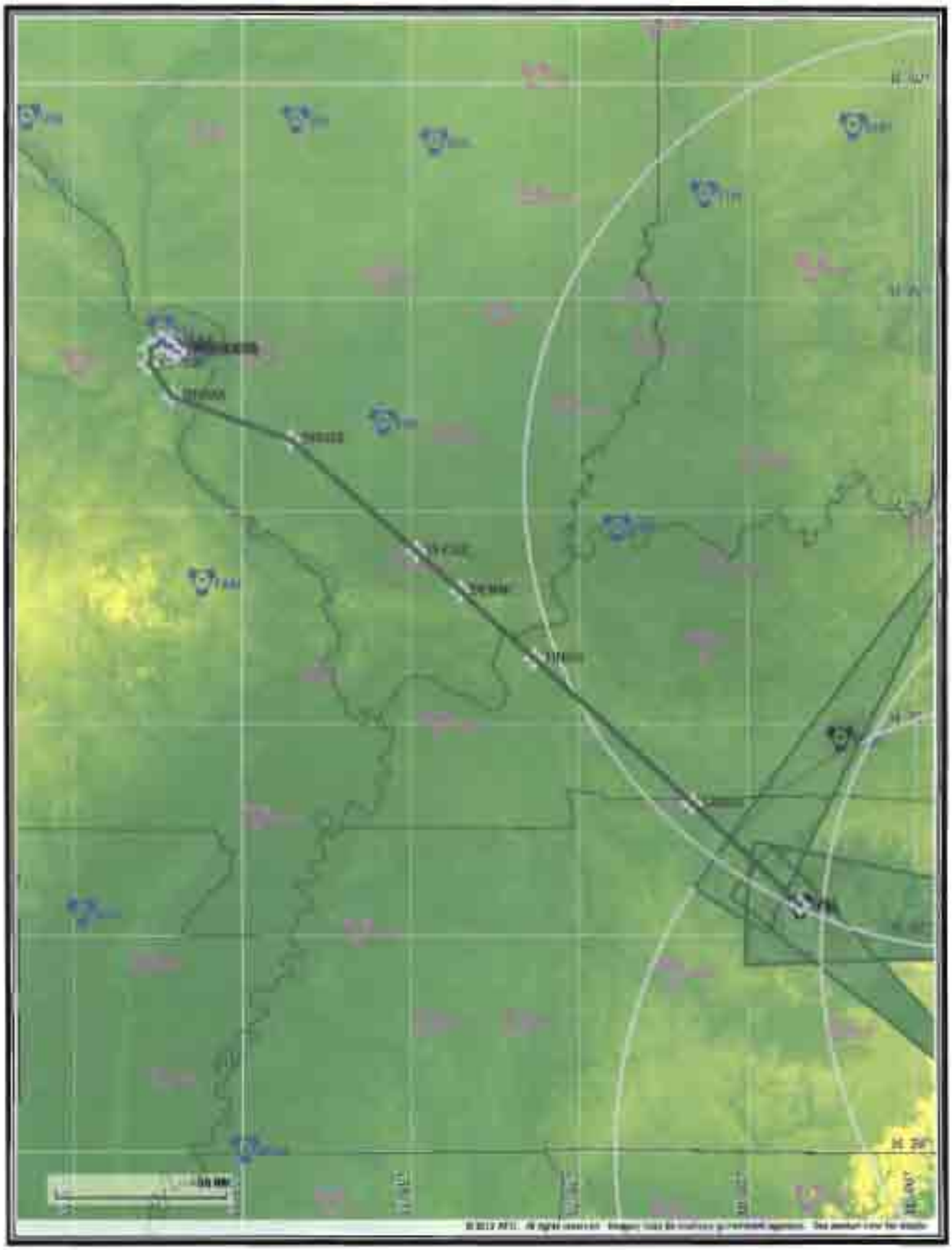


Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 12:13:43 PM
Input File:	DRUSE RW29 BNA 20120...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	**Please Check Flyability Results**
DME/DME	✔	
Radars	✔	
Comms		
TERPS		

© 1996-2012 Air Traffic Simulation, Inc. All rights reserved. RNAV-Pro, DrawSpace and the ATSI logo are trademarks of Air Traffic Simulation, Inc. DTED® courtesy U.S. Geological Survey. DTED is a registered trademark of the National Geospatial-Intelligence Agency. Blue Marble imagery in this program produced by NASA and the Earth Observatory (http://earthobservatory.nasa.gov.) This product has not been endorsed or otherwise approved by the National Geospatial-Intelligence Agency, United States Department of Defense, or the United States Federal Aviation Administration. Portions of this product sponsored by the United States Federal Aviation Administration. DTFA-02-01-D-12906, DTFAAC-05-D-00013. Sectional charts should not be used for actual flight navigation.



Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW29(A...	WP	N 38° 44' 48.46" W 90° 22' 59.39"	556.0	VNAV	0.0	Fly Over	TF
RW11(D...	WP	N 38° 45' 35.83" W 90° 24' 35.55"	653.0	VNAV	130.0	Fly Over	VA
GH29:	WP	N 38° 46' 7.94" W 90° 25' 40.74"	1120.0	VNAV	145.0	Fly Over	DF
HAGEE	WP	N 38° 47' 35.74" W 90° 28' 40.90"	2500.0	VNAV	180.0	Fly By	TF
WAARN	WP	N 38° 45' 36.12" W 90° 32' 29.93"	3217.7	VNAV	180.0	Fly By	TF
ELDBB	WP	N 38° 41' 16.21" W 90° 32' 49.96"	4084.8	VNAV	180.0	Fly By	TF
BERAA	WP	N 38° 32' 14.75" W 90° 24' 47.49"	6284.8	VNAV	180.0	Fly By	TF
DRUSE	WP	N 38° 19' 45.54" W 89° 42' 19.40"	13409.7	VNAV	210.0	Fly By	TF
PLESS_	WP	N 37° 48' 34.48" W 88° 57' 47.48"	18000.0	VNAV	240.0	Fly By	TF
DENNI_	WP	N 37° 37' 22.84" W 88° 42' 3.90"	18000.0	VNAV	240.0	Fly By	TF
TINGS	WP	N 37° 18' 10.87" W 88° 15' 22.30"	18000.0	VNAV	240.0	Fly By	TF
LAJUG	WP	N 36° 36' 43.52" W 87° 18' 57.34"	18000.0	VNAV	240.0	Fly By	TF
BNA	WP	N 36° 8' 13.06" W 86° 41' 5.18"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Required IAS at Fly-By WP ELDBB could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -47.99 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

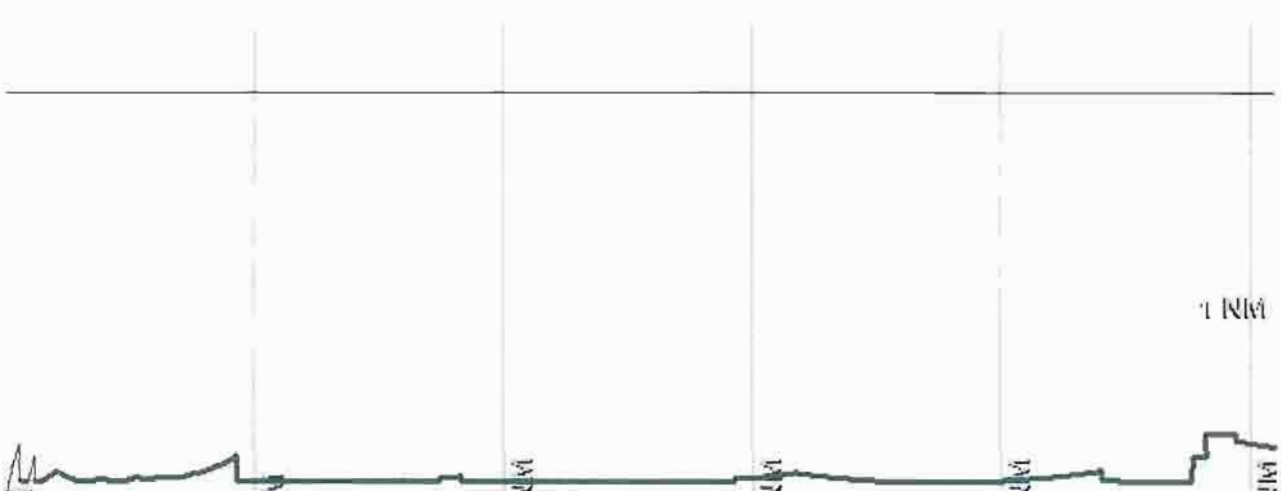
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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
Minimum MSL DMEs Avail: 1661 Ft.

Total Number of DMEs Used: 15

Maximum DME Error: 0.463 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, ENL, MWA, VNN, PXV, FAM, CNG, BWG, BNA, CCT, IIU, GQO, VXV, SYI



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.468	Enabled	8.1 %	7.3 %
2	STL	N 38° 51' 36.48" W 90° 28' 56.52"	H	Database	NO	1.145	Enabled	16.7 %	15.2 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.48"	H	Database	NO	0.584	Enabled	6.5 %	5.6 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	0.821	Enabled	16.9 %	17.6 %
5	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	0.978	Enabled	33.1 %	34.4 %
6	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.463	Enabled	9.6 %	10.0 %
7	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.463	Enabled	4.4 %	4.6 %
8	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	Database	NO	0.573	Enabled	37.8 %	39.3 %
9	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	0.463	Enabled	2.4 %	2.5 %
10	CNG	N 37° 0' 31.00" W 88° 50' 12.87"	L	Database	NO	0.463	Enabled	8.2 %	8.5 %
11	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	1.496	Enabled	34.0 %	35.4 %
12	BNA	N 36° 8' 13.08" W 86° 41' 5.18"	H	Database	NO	0.611	Enabled	6.9 %	7.2 %
13	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H + ESV	User	NO	0.437	Enabled	3.4 %	3.6 %
14	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H + ESV	User	NO	0.445	Enabled	2.3 %	2.4 %
15	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H + ESV	User	NO	0.463	Enabled	3.0 %	3.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5	STL					
2.5	STL	FTZ	CSX			
4.9	STL	FTZ	CSX			
8.4	STL	FTZ	CSX			
12.4	STL	FTZ	CSX	TOY		
23.4	STL	FTZ	CSX	TOY	ENL	

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance (NM)	Selected DMEs					Alternate
58.1	ENL	VNN	MWA	TOY		
72.6	ENL	VNN	MWA	CSX	STL	PXV
82.7	ENL	VNN	MWA	PXV	STL	FAM
94.6	ENL	FAM	MWA	PXV	CSX	VNN
106.5	ENL	VNN	MWA	PXV	CSX	FAM
123.3	ENL	FAM	MWA	PXV	CNG	BWG
151.9	ENL	BWG	BNA	PXV	CNG	FAM
172.1	CCT	BWG	BNA	PXV		
213.3	IIU	BWG	BNA	PXV		
232.1	IIU	BWG	BNA	GQO	VXV	SYI

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 48.46" W 90° 22' 59.39"	N 38° 46' 19.70" W 90° 26' 4.80"	2.9
	VOR: CSX	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
	VOR: FTZ	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
	VOR: STL	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
	VOR: TOY	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 19.70" W 90° 26' 4.80"	
2	N 38° 47' 16.83" W 90° 28' 2.05"	N 38° 47' 7.82" W 90° 29' 34.95"	1.4
	VOR: CSX	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
	VOR: FTZ	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
	VOR: STL	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	
	VOR: TOY	Available from N 38° 47' 16.83" W 90° 28' 2.05" to N 38° 47' 7.82" W 90° 29' 34.95"	

DME/DME (Continued.)

Return To Summary

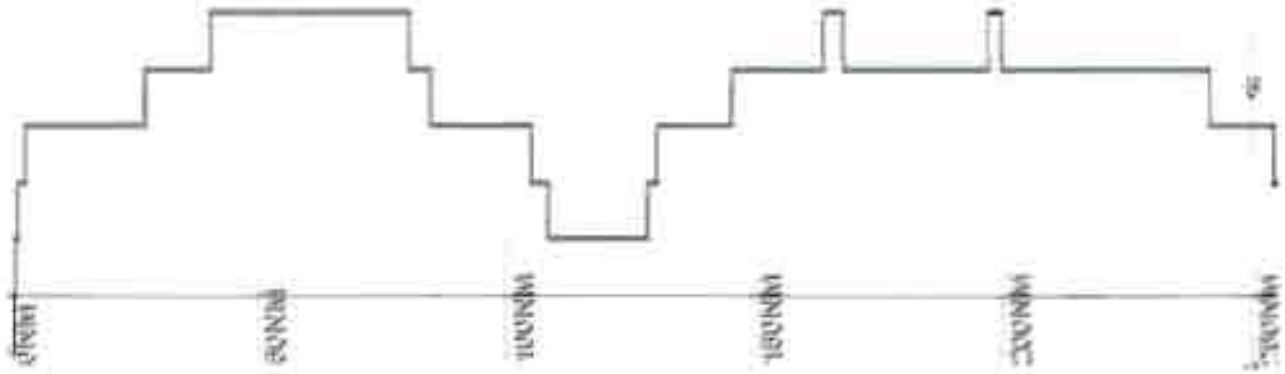
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H	1014.5	115.80	GQO	Used
		ESV: Bearing [True]: 308.0° to 317.0° Bearing [Mag]: 307.0° to 316.0°			Arc Distance: Out to 120.0 NM Altitude: 17000.0 to 35000.0 Ft.		
2	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H	1289.6	116.40	VXV	Used
		ESV: Bearing [True]: 270.0° to 283.0° Bearing [Mag]: 273.0° to 286.0°			Arc Distance: Out to 152.0 NM Altitude: 17000.0 to 25000.0 Ft.		
3	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	720.0	114.80	IIU	Used
		ESV: Bearing [True]: 207.0° to 217.0° Bearing [Mag]: 206.0° to 216.0°			Arc Distance: Out to 140.0 NM Altitude: 17000.0 to 45000.0 Ft.		

Radar Analysis

Return To Summary

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

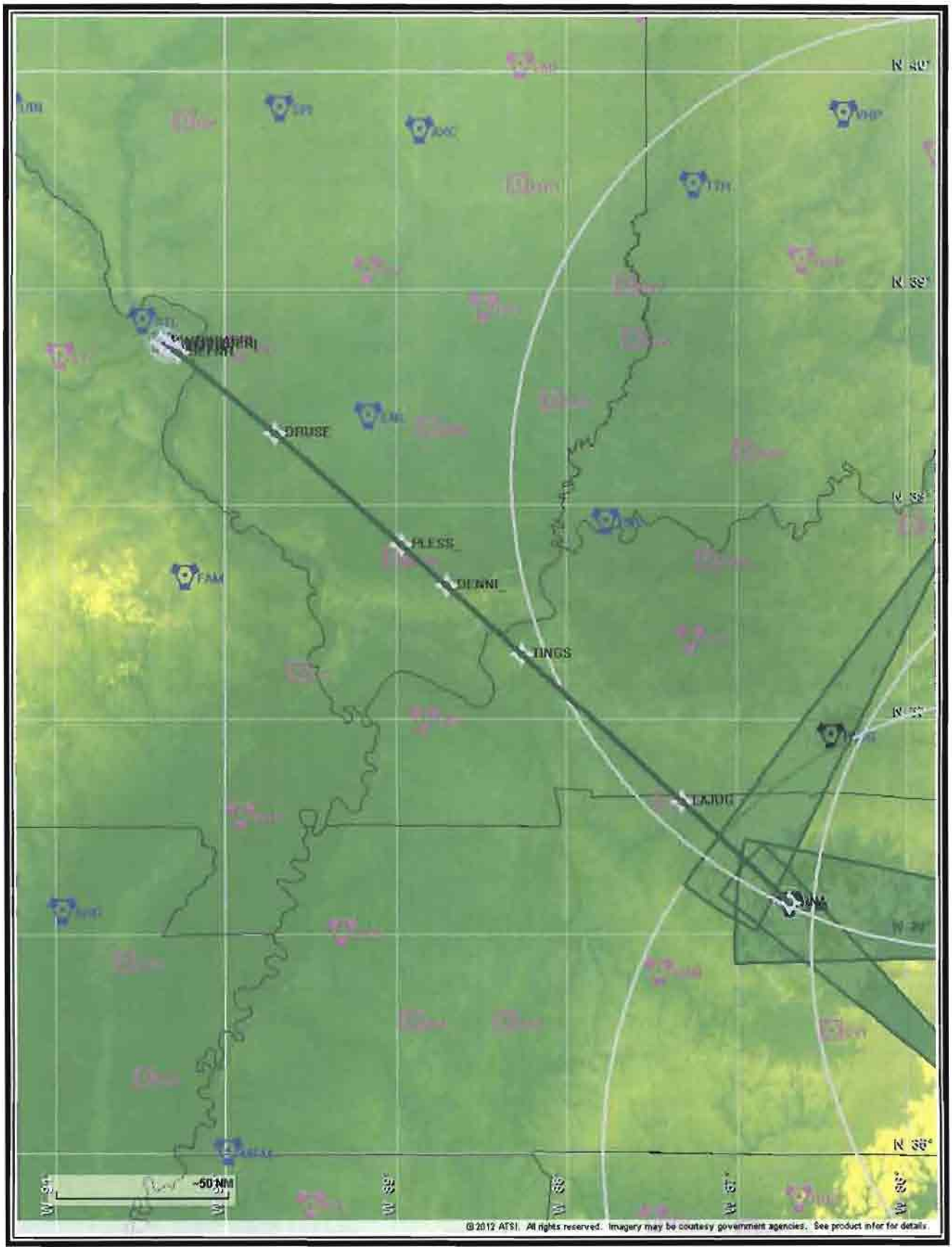


Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 11:49:04 AM
Input File:	DRUSE RW12R BNA 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	
TERPS	

© 1996-2012 Air Traffic Simulation, Inc. All rights reserved. RNAV-Pro, DrawSpace and the ATSI logo are trademarks of Air Traffic Simulation, Inc. DTED® courtesy U.S. Geological Survey. DTED is a registered trademark of the National Geospatial-Intelligence Agency. Blue Marble imagery in this program produced by NASA and the Earth Observatory (http://earthobservatory.nasa.gov.) This product has not been endorsed or otherwise approved by the National Geospatial-Intelligence Agency, United States Department of Defense, or the United States Federal Aviation Administration. Portions of this product sponsored by the United States Federal Aviation Administration, DTFA-02-01-D-12906, DTFAAC-05-D-00013. Sectional charts should not be used for actual flight navigation.


DRUSE
PLESS
DENNI
JINGS
EXJOG
BNA
~50 NM
© 2012 ATSI. All rights reserved. Imagery may be courtesy government agencies. See product infor for details.

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW12R(...	WP	N 38° 45' 11.59" W 90° 22' 39.98"	541.6	VNAV	0.0	Fly Over	TF
RW30L(...	WP	N 38° 44' 16.01" W 90° 20' 47.27"	620.8	VNAV	130.0	Fly Over	VA
GH12R	WP	N 38° 43' 41.83" W 90° 19' 37.95"	1120.0	VNAV	145.0	Fly Over	DF
HEFNR	WP	N 38° 42' 6.39" W 90° 16' 24.55"	2500.0	VNAV	180.0	Fly By	TF
DRUSE	WP	N 38° 19' 45.54" W 89° 42' 19.40"	9468.8	VNAV	180.0	Fly By	TF
PLESS_	WP	N 37° 48' 34.48" W 88° 57' 47.48"	18000.0	VNAV	240.0	Fly By	TF
DENNI_	WP	N 37° 37' 22.84" W 88° 42' 3.90"	18000.0	VNAV	240.0	Fly By	TF
TINGS	WP	N 37° 18' 10.87" W 88° 15' 22.30"	18000.0	VNAV	240.0	Fly By	TF
LAJUG	WP	N 36° 36' 43.52" W 87° 18' 57.34"	18000.0	VNAV	240.0	Fly By	TF
BNA	WP	N 36° 8' 13.06" W 86° 41' 5.16"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -71.92 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

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: 0.165 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
Minimum MSL DMEs Avail: 2017 Ft.

Total Number of DMEs Used: 15

Maximum DME Error: 0.463 NM

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, ENL, MWA, VNN, PXV, FAM, CNG, BWG, BNA, CCT, IIU, GQO, VXV, SYI

1 NM

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.918	Enabled	4.6 %	2.9 %
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	Database	NO	0.949	Enabled	8.5 %	6.3 %
3	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	1.399	Enabled	17.4 %	17.5 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.463	Enabled	3.4 %	3.6 %
5	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	1.021	Enabled	35.8 %	37.4 %
6	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.850	Enabled	13.1 %	13.6 %
7	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.463	Enabled	5.4 %	5.7 %
8	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	Database	NO	0.573	Enabled	40.8 %	42.6 %
9	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	0.463	Enabled	2.6 %	2.7 %
10	CNG	N 37° 0' 31.00" W 88° 50' 12.87"	L	Database	NO	0.463	Enabled	8.8 %	9.2 %
11	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	1.498	Enabled	36.6 %	38.2 %
12	BNA	N 36° 8' 13.06" W 86° 41' 5.18"	H	Database	NO	0.609	Enabled	7.4 %	7.8 %
13	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H + ESV	User	NO	0.461	Enabled	3.7 %	3.9 %
14	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H + ESV	User	NO	0.461	Enabled	2.5 %	2.6 %
15	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H + ESV	User	NO	0.463	Enabled	3.2 %	3.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.8	FTZ	STL	CSX			
5.7	FTZ	STL	CSX	TOY	ENL	
40.5	ENL	VNN	MWA	TOY		
63.8	ENL	VNN	MWA	PXV	STL	CSX
73.8	ENL	FAM	MWA	PXV	CSX	VNN

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
87.6	ENL	VNN	MWA	PXV	CSX	FAM
104.4	ENL	FAM	MWA	PXV	CNG	BWG
133.0	ENL	BWG	BNA	PXV	CNG	FAM
153.2	CCT	BWG	BNA	PXV		
194.3	IIU	BWG	BNA	PXV		
213.2	IIU	BWG	BNA	GQO	VXV	SYI

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 11.59" W 90° 22' 39.98"	N 38° 43' 21.04" W 90° 18' 55.84"	3.5
	VOR: CSX	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
	VOR: FTZ	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
	VOR: STL	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	
	VOR: TOY	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 21.04" W 90° 18' 55.84"	

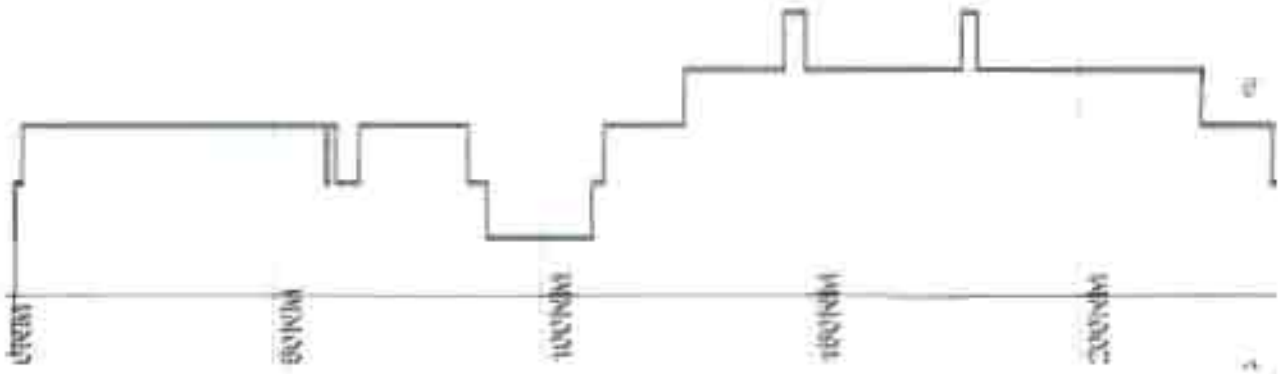
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H	1014.5	115.80	GQO	Used
		ESV: Bearing [True]: 308.0° to 317.0° Bearing [Mag]: 307.0° to 316.0°			Arc Distance: Out to 120.0 NM Altitude: 17000.0 to 35000.0 Ft		
2	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H	1289.6	116.40	VXV	Used
		ESV: Bearing [True]: 270.0° to 283.0° Bearing [Mag]: 273.0° to 286.0°			Arc Distance: Out to 152.0 NM Altitude: 17000.0 to 25000.0 Ft		
3	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	720.0	114.80	IIU	Used
		ESV: Bearing [True]: 207.0° to 217.0° Bearing [Mag]: 206.0° to 216.0°			Arc Distance: Out to 140.0 NM Altitude: 17000.0 to 45000.0 Ft		

Radar Analysis

Return To Summary

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

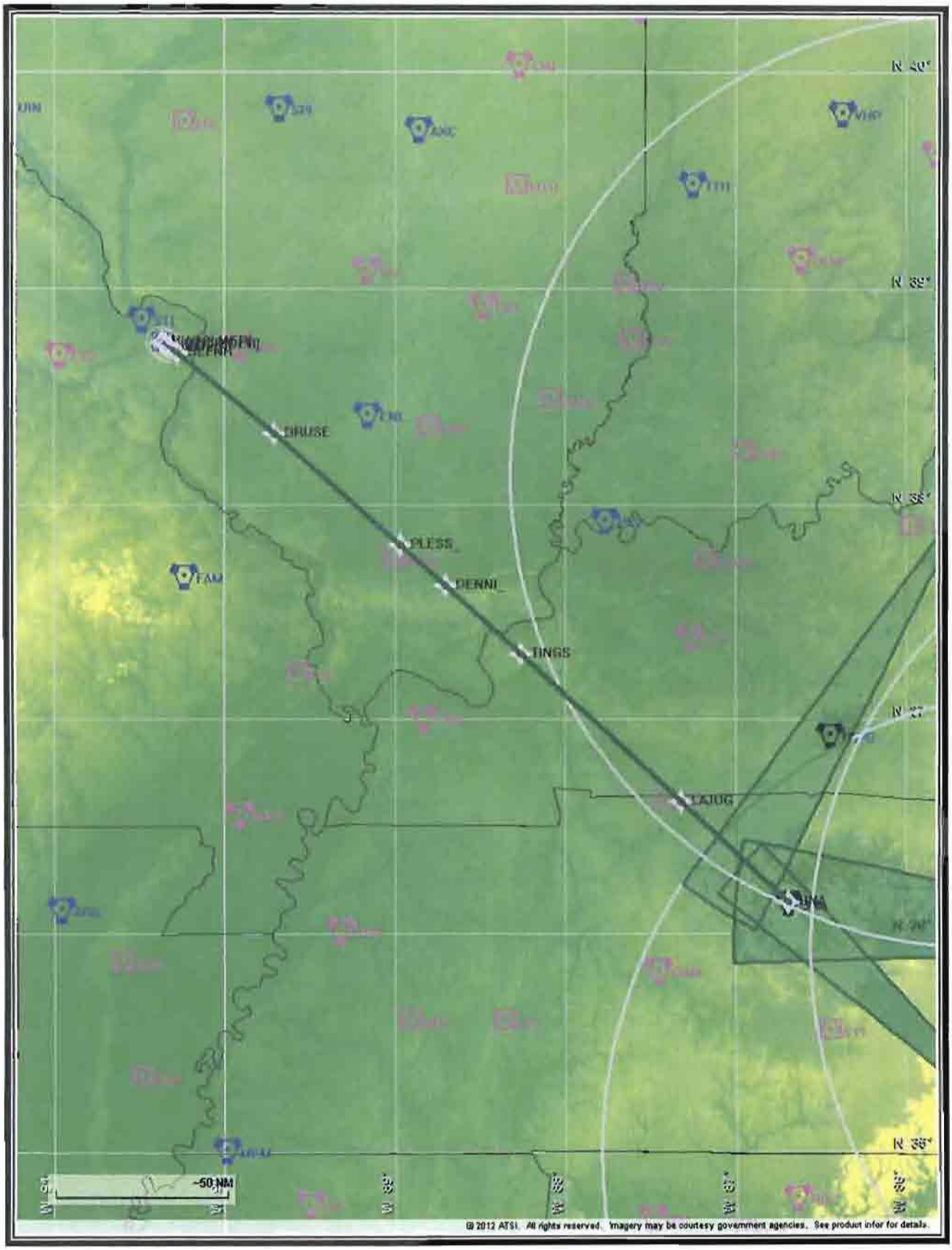


Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 11:26:16 AM
Input File:	DRUSE RW12L BNA 2012...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	**Please Check Flyability Results**
DME/DME	✔	
Radars	✔	
Comms		
TERPS		

© 1996-2012 Air Traffic Simulation, Inc. All rights reserved. RNAV-Pro, DrawSpace and the ATSI logo are trademarks of Air Traffic Simulation, Inc. DTED® courtesy U.S. Geological Survey. DTED is a registered trademark of the National Geospatial-Intelligence Agency. Blue Marble imagery in this program produced by NASA and the Earth Observatory (http://earthobservatory.nasa.gov/). This product has not been endorsed or otherwise approved by the National Geospatial-Intelligence Agency, United States Department of Defense, or the United States Federal Aviation Administration. Portions of this product sponsored by the United States Federal Aviation Administration, DTFA-02-01-D-12906, DTFAAC-05-D-00013. Sectional charts should not be used for actual flight navigation.


DRUSE
PLESS
DENNI
TINGS
LAJUG
BNA
~50 NM
© 2012 ATSI. All rights reserved. Imagery may be courtesy government agencies. See product infor for details.

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW12L(...	WP	N 38° 45' 6.41" W 90° 21' 58.66"	528.3	VNAV	0.0	Fly Over	TF
RW30R(...	WP	N 38° 44' 18.99" W 90° 20' 22.51"	639.5	VNAV	130.0	Fly Over	VA
GH12L	WP	N 38° 43' 45.99" W 90° 19' 15.61"	1120.0	VNAV	145.0	Fly Over	DF
HEFNR	WP	N 38° 42' 6.39" W 90° 16' 24.55"	2500.0	VNAV	180.0	Fly By	TF
DRUSE	WP	N 38° 19' 45.54" W 89° 42' 19.40"	9468.8	VNAV	180.0	Fly By	TF
PLESS_	WP	N 37° 48' 34.48" W 88° 57' 47.48"	18000.0	VNAV	240.0	Fly By	TF
DENNI_	WP	N 37° 37' 22.84" W 88° 42' 3.90"	18000.0	VNAV	240.0	Fly By	TF
TINGS	WP	N 37° 18' 10.87" W 88° 15' 22.30"	18000.0	VNAV	240.0	Fly By	TF
LAJUG	WP	N 36° 36' 43.52" W 87° 18' 57.34"	18000.0	VNAV	240.0	Fly By	TF
BNA	WP	N 36° 8' 13.06" W 86° 41' 5.18"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -64.22 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

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: 0.165 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
Minimum MSL DMEs Avail: 2122 Ft.

Total Number of DMEs Used: 15

Maximum DME Error: 0.463 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, ENL, MWA, VNN, PXV, FAM, CNG, BWG, BNA, CCT, IIU, GQO, VXV, SYI

1 NM

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.885	Enabled	4.5 %	2.8 %
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	Database	NO	0.916	Enabled	8.4 %	6.1 %
3	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	1.403	Enabled	17.6 %	17.5 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.463	Enabled	3.4 %	3.6 %
5	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	1.021	Enabled	35.9 %	37.4 %
6	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.850	Enabled	13.1 %	13.7 %
7	VNN	N 38° 21' 43.03" W 88° 46' 26.41"	L	Database	NO	0.463	Enabled	5.5 %	5.7 %
8	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	Database	NO	0.573	Enabled	40.9 %	42.7 %
9	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	0.463	Enabled	2.6 %	2.7 %
10	CNG	N 37° 0' 31.00" W 88° 50' 12.87"	L	Database	NO	0.463	Enabled	8.8 %	9.2 %
11	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	1.498	Enabled	36.7 %	38.3 %
12	BNA	N 36° 8' 13.06" W 86° 41' 5.18"	H	Database	NO	0.609	Enabled	7.4 %	7.8 %
13	GQO	N 34° 57' 40.54" W 85° 8' 12.14"	H + ESV	User	NO	0.447	Enabled	3.7 %	3.9 %
14	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H + ESV	User	NO	0.447	Enabled	2.5 %	2.6 %
15	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H + ESV	User	NO	0.463	Enabled	3.2 %	3.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.5	FTZ	STL	CSX			
5.2	FTZ	STL	CSX	TOY	ENL	
40.0	ENL	VNN	MWA	TOY		
63.3	ENL	VNN	MWA	PXV	STL	CSX
73.3	ENL	FAM	MWA	PXV	CSX	VNN

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
87.1	ENL	VNN	MWA	PXV	CSX	FAM
103.9	ENL	FAM	MWA	PXV	CNG	BWG
132.5	ENL	BWG	BNA	PXV	CNG	FAM
152.7	CCT	BWG	BNA	PXV		
193.8	IIU	BWG	BNA	PXV		
212.7	IIU	BWG	BNA	GQO	VXV	SYI

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 6.41" W 90° 21' 58.66"	N 38° 43' 19.48" W 90° 18' 29.92"	3.3
	VOR: CSX	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
	VOR: FTZ	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
	VOR: STL	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	
	VOR: TOY	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 19.48" W 90° 18' 29.92"	

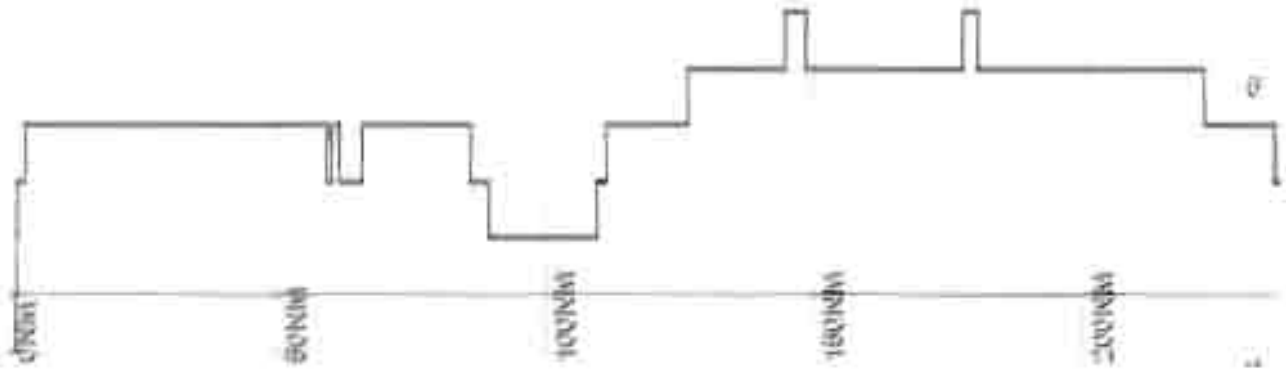
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H	1014.5	115.80	GQO	Used
		ESV: Bearing [True]: 308.0° to 317.0° Bearing [Mag]: 307.0° to 316.0°			Arc Distance: Out to 120.0 NM Altitude: 17000.0 to 35000.0 Ft.		
2	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H	1289.6	116.40	VXV	Used
		ESV: Bearing [True]: 270.0° to 283.0° Bearing [Mag]: 273.0° to 286.0°			Arc Distance: Out to 152.0 NM Altitude: 17000.0 to 25000.0 Ft.		
3	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	720.0	114.80	IIU	Used
		ESV: Bearing [True]: 207.0° to 217.0° Bearing [Mag]: 206.0° to 216.0°			Arc Distance: Out to 140.0 NM Altitude: 17000.0 to 45000.0 Ft.		

Radar Analysis

Return To Summary

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

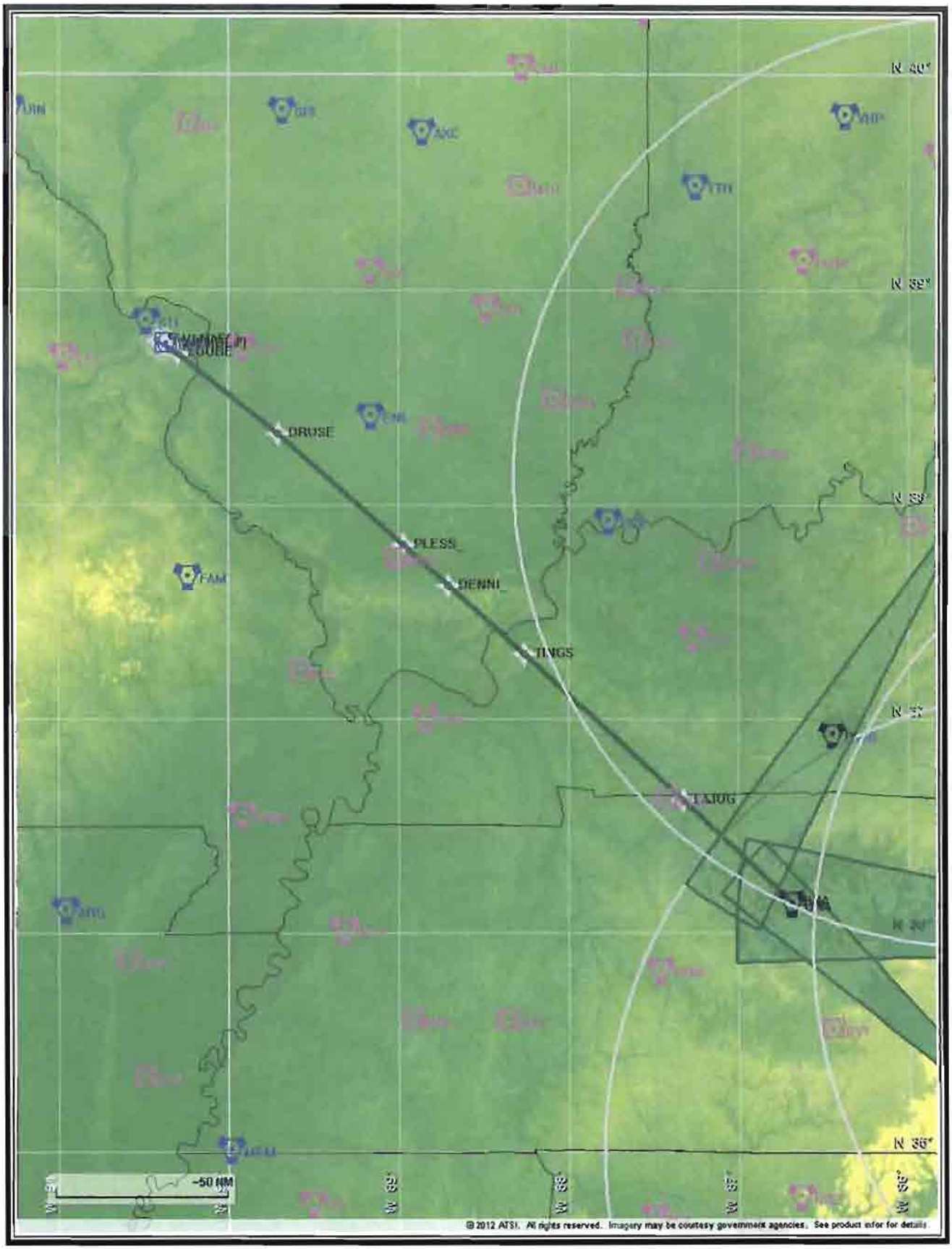


Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/6/2012 11:02:37 AM
Input File:	DRUSE RW11 BNA 20120...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ **Please Check Flyability Results**
DME/DME	✔
Radars	✔
Comms	
TERPS	

© 1996-2012 Air Traffic Simulation, Inc. All rights reserved. RNAV-Pro, DrawSpace and the ATSI logo are trademarks of Air Traffic Simulation, Inc. DTED® courtesy U.S. Geological Survey. DTED is a registered trademark of the National Geospatial-Intelligence Agency. Blue Marble imagery in this program produced by NASA and the Earth Observatory (http://earthobservatory.nasa.gov.) This product has not been endorsed or otherwise approved by the National Geospatial-Intelligence Agency, United States Department of Defense, or the United States Federal Aviation Administration. Portions of this product sponsored by the United States Federal Aviation Administration, DTFA-02-01-D-12006, DTFAAC-05-D-00013. Sectional charts should not be used for actual flight navigation.


DRUSE
PLESS
DENNI
TINGS
TAJUG
N 40°
N 39°
N 38°
N 37°
N 36°
50 NM
© 2012 ATSI. All rights reserved. Imagery may be courtesy government agencies. See product infor for details.

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW11(A...	WP	N 38° 45' 35.83" W 90° 24' 35.55"	618.0	VNAV	0.0	Fly Over	TF
RW29(D...	WP	N 38° 44' 48.46" W 90° 22' 59.39"	591.0	VNAV	130.0	Fly Over	VA
GH11	WP	N 38° 44' 12.38" W 90° 21' 46.17"	1120.0	VNAV	145.0	Fly Over	DF
LIJUBE	WP	N 38° 42' 8.40" W 90° 17' 35.03"	2500.0	VNAV	180.0	Fly By	TF
DRUSE	WP	N 38° 19' 45.54" W 89° 42' 19.40"	9615.5	VNAV	180.0	Fly By	TF
PLESS_	WP	N 37° 48' 34.48" W 88° 57' 47.48"	18000.0	VNAV	240.0	Fly By	TF
DENNI_	WP	N 37° 37' 22.84" W 88° 42' 3.90"	18000.0	VNAV	240.0	Fly By	TF
TINGS	WP	N 37° 18' 10.87" W 88° 15' 22.30"	18000.0	VNAV	240.0	Fly By	TF
LAJUG	WP	N 36° 36' 43.52" W 87° 18' 57.34"	18000.0	VNAV	240.0	Fly By	TF
BNA	WP	N 36° 8' 13.06" W 86° 41' 5.18"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -2.94 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

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: 0.165 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
Minimum MSL DMEs Avail: 1839 Ft.

Total Number of DMEs Used: 15

Maximum DME Error: 0.463 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, ENL, MWA, VNN, PXV, FAM, CNG, BWG, BNA, CCT, IIU, GQO, VXV, SYI

1 Nm

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.992	Enabled	5.6 %	3.5 %
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	Database	NO	1.007	Enabled	9.3 %	7.0 %
3	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	1.345	Enabled	17.1 %	17.5 %
4	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.463	Enabled	3.5 %	3.7 %
5	ENL	N 38° 25' 12.00" W 89° 9' 32.39"	H	Database	NO	1.016	Enabled	35.5 %	37.1 %
6	MWA	N 37° 45' 15.32" W 89° 0' 42.00"	L	Database	NO	0.852	Enabled	12.9 %	13.4 %
7	VNN	N 38° 21' 43.03" W 88° 48' 26.41"	L	Database	NO	0.463	Enabled	5.4 %	5.6 %
8	PXV	N 37° 55' 41.95" W 87° 45' 44.56"	H	Database	NO	0.571	Enabled	40.6 %	42.4 %
9	FAM	N 37° 40' 24.39" W 90° 14' 2.53"	H	Database	NO	0.463	Enabled	2.6 %	2.7 %
10	CNG	N 37° 0' 31.00" W 88° 50' 12.87"	L	Database	NO	0.463	Enabled	8.7 %	9.1 %
11	BWG	N 36° 55' 43.47" W 86° 26' 36.36"	H	Database	NO	1.498	Enabled	36.5 %	38.0 %
12	BNA	N 36° 8' 13.06" W 86° 41' 5.18"	H	Database	NO	0.611	Enabled	7.4 %	7.7 %
13	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H + ESV	User	NO	0.437	Enabled	3.7 %	3.8 %
14	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H + ESV	User	NO	0.445	Enabled	2.5 %	2.6 %
15	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H + ESV	User	NO	0.463	Enabled	3.2 %	3.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5	STL					
2.5	STL	FTZ	CSX			
6.4	STL	FTZ	CSX	TOY	ENL	
41.9	ENL	VNN	MWA	TOY		
65.2	ENL	VNN	MWA	PXV	STL	CSX
75.2	ENL	VNN	MWA	PXV	FAM	CSX

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
89.0	ENL	VNN	MWA	PXV	CSX	FAM
105.8	ENL	FAM	MWA	PXV	CNG	BWG
134.4	ENL	BWG	BNA	PXV	CNG	FAM
154.6	CCT	BWG	BNA	PXV		
195.7	IIU	BWG	BNA	PXV		
214.5	IIU	BWG	BNA	GQO	VXV	SYI

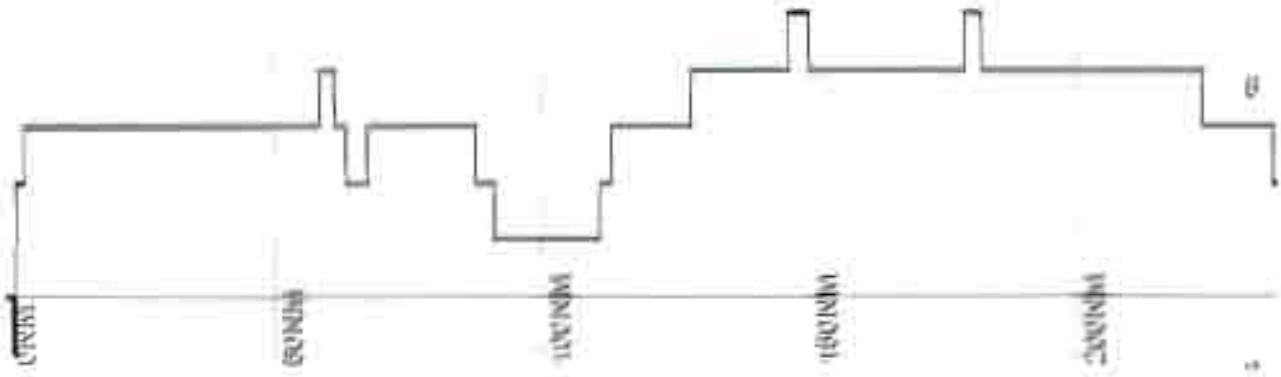
Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 35.83" W 90° 24' 35.55"	N 38° 43' 58.09" W 90° 21' 17.23"	3.1
	VOR: CSX	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.09" W 90° 21' 17.23"	
	VOR: FTZ	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.09" W 90° 21' 17.23"	
	VOR: STL	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.09" W 90° 21' 17.23"	
	VOR: TDY	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 43' 58.09" W 90° 21' 17.23"	

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	GQO	N 34° 57' 40.54" W 85° 9' 12.14"	H	1014.5	115.80	GQO	Used
		ESV: Bearing [True]: 308.0° to 317.0° Bearing [Mag]: 307.0° to 316.0°			Arc Distance: Out to 120.0 NM Altitude: 17000.0 to 35000.0 Ft		
2	VXV	N 35° 54' 17.42" W 83° 53' 41.02"	H	1289.6	116.40	VXV	Used
		ESV: Bearing [True]: 270.0° to 283.0° Bearing [Mag]: 273.0° to 286.0°			Arc Distance: Out to 152.0 NM Altitude: 17000.0 to 25000.0 Ft		
3	IIU	N 38° 6' 12.47" W 85° 34' 38.77"	H	720.0	114.80	IIU	Used
		ESV: Bearing [True]: 207.0° to 217.0° Bearing [Mag]: 206.0° to 216.0°			Arc Distance: Out to 140.0 NM Altitude: 17000.0 to 45000.0 Ft		

Radar Analysis

Return To Summary

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