Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 01/25/2012	Task #: 2012012520201701001	Request #: 20120125202017
Procedure: SID BUNZZ (RNAV) ONE WASHINGTON DC KIAD		Airport ID: KIAD	Airport: WASHINGTON DULLES INTL		Reimbursable #:
City: WASHINGTON	ST: DC	GPS #:		Estimated Chart Date: 07/26/2012	FICO #:
Fac ID:	Fac. Type: Proc D	Specialist: PETER GUIMOND			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	02/02/2012	04/12/2012	DONALD SMITH	
QA:	04/12/2012	04/12/2012	STEVEN SZUKALA	
Liaison:	04/12/2012		Alfonso	DME/DME

DME / DME

PI

Procedure Comments: ENROUTE

Remark Type: INFORMATION

Pkg 2 of 3

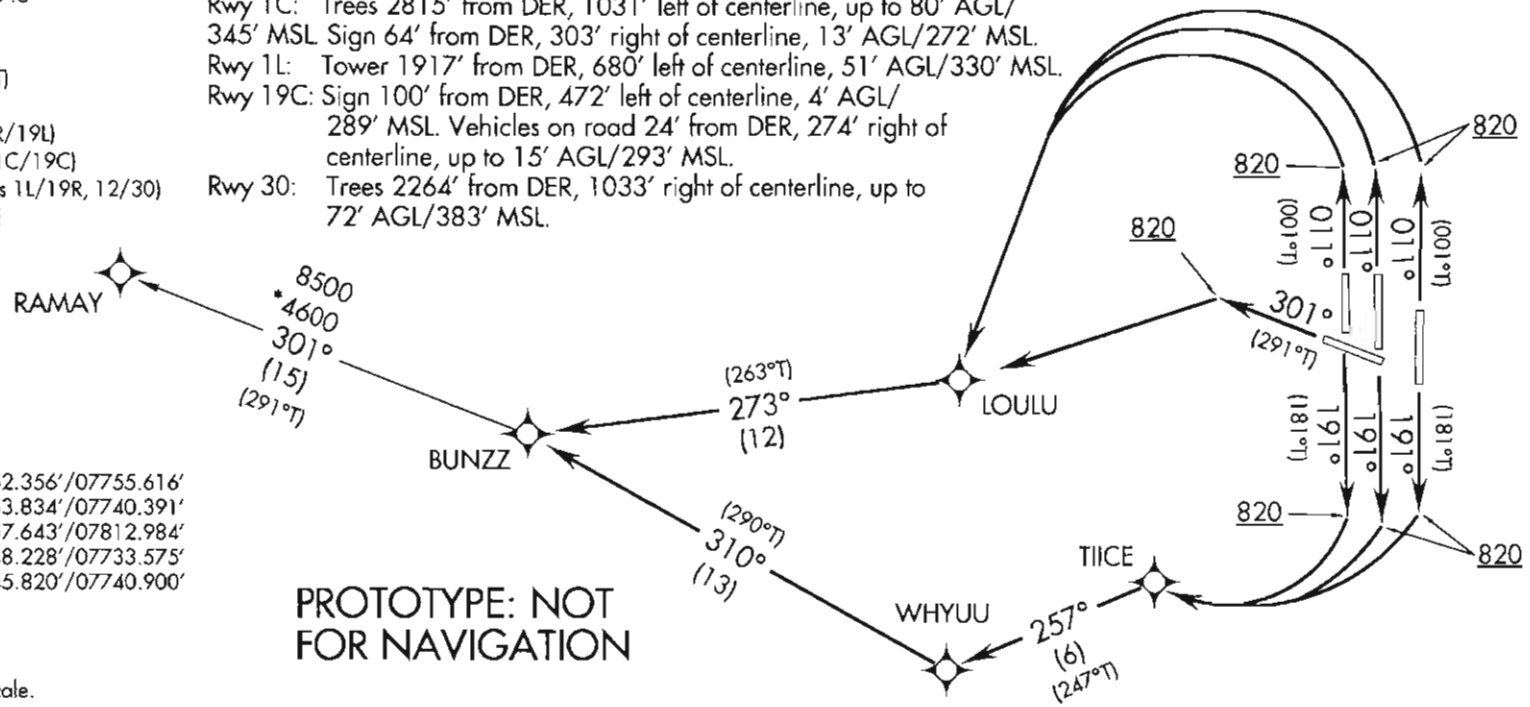
WASHINGTON, DC WASHINGTON DULLES INTL (KIAD) BUNZZ ONE (RNAV) (SID) ENROUTE-YES FC: 5.29.12 PUB: 7.26.12

ATTACHED FORMS: 8260-15B; 8260-15C; 8260-2(S): BUNZZ, ORIG; LOULU, ORIG; TIICE, ORIG; WHYUU, ORIG; (INFO ONLY) RAMAY, REV 2.

CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

ATIS 134.85
CLNC DEL 135.7 317.8
GND CON
121.9 317.8 (EAST)
132.45 348.6 (WEST)
DULLES TOWER
120.1 317.8 (Rwy 1R/19L)
120.25 348.6 (Rwy 1C/19C)
134.425 348.6 (Rwys 1L/19R, 12/30)
POTOMAC APP CON
120.45 306.925

TAKE-OFF OBSTACLES:
Rwy 1C: Trees 2815′ from DER, 1031′ left of centerline, up to 80′ AGL/345′ MSL. Sign 64′ from DER, 303′ right of centerline, 13′ AGL/272′ MSL.
Rwy 1L: Tower 1917′ from DER, 680′ left of centerline, 51′ AGL/330′ MSL.
Rwy 19C: Sign 100′ from DER, 472′ left of centerline, 4′ AGL/289′ MSL. Vehicles on road 24′ from DER, 274′ right of centerline, up to 15′ AGL/293′ MSL.
Rwy 30: Trees 2264′ from DER, 1033′ right of centerline, up to 72′ AGL/383′ MSL.



BUNZZ: 3852.356′/07755.616′
LOULU: 3853.834′/07740.391′
RAMAY: 3857.643′/07812.984′
TIICE: 3848.228′/07733.575′
WHYUU: 3845.820′/07740.900′

PROTOTYPE: NOT FOR NAVIGATION

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1C/1L/1R: Climb heading 011° to 820, then left turn direct LOULU (or heading assigned by ATC), then on depicted course to BUNZZ, thence. . . .
TAKE-OFF RUNWAY 19L/19C/19R: Climb heading 191° to 820, then right turn direct TIICE (or heading assigned by ATC), then on depicted course to BUNZZ, thence. . . .
TAKE-OFF RUNWAY 30: Climb heading 301° to 820, then left turn direct LOULU (or heading assigned by ATC), then on depicted route to BUNZZ, thence. . . .

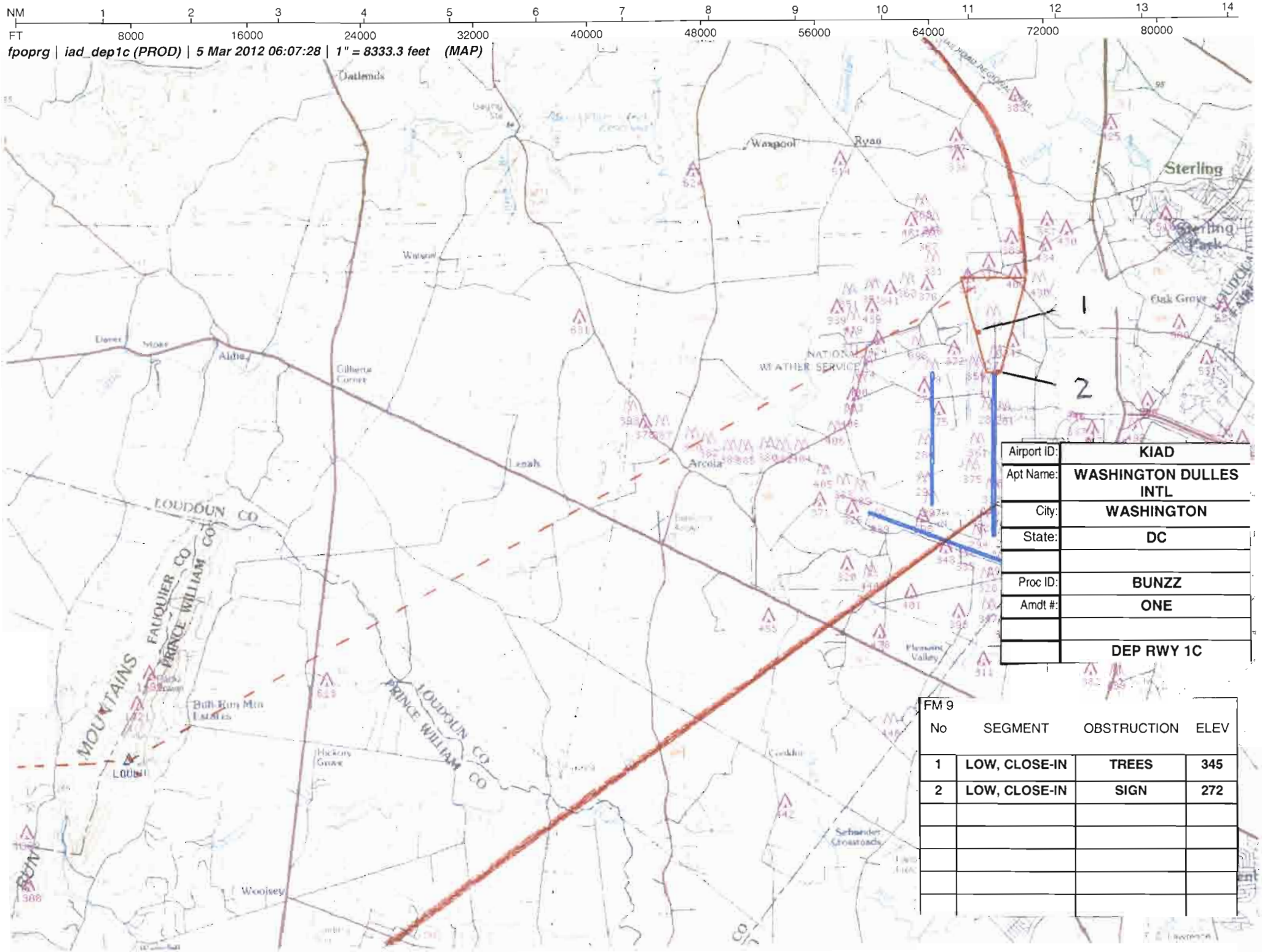
. . . . Maintain 3000. Expect clearance to filed altitude within ten (10) minutes after departure.

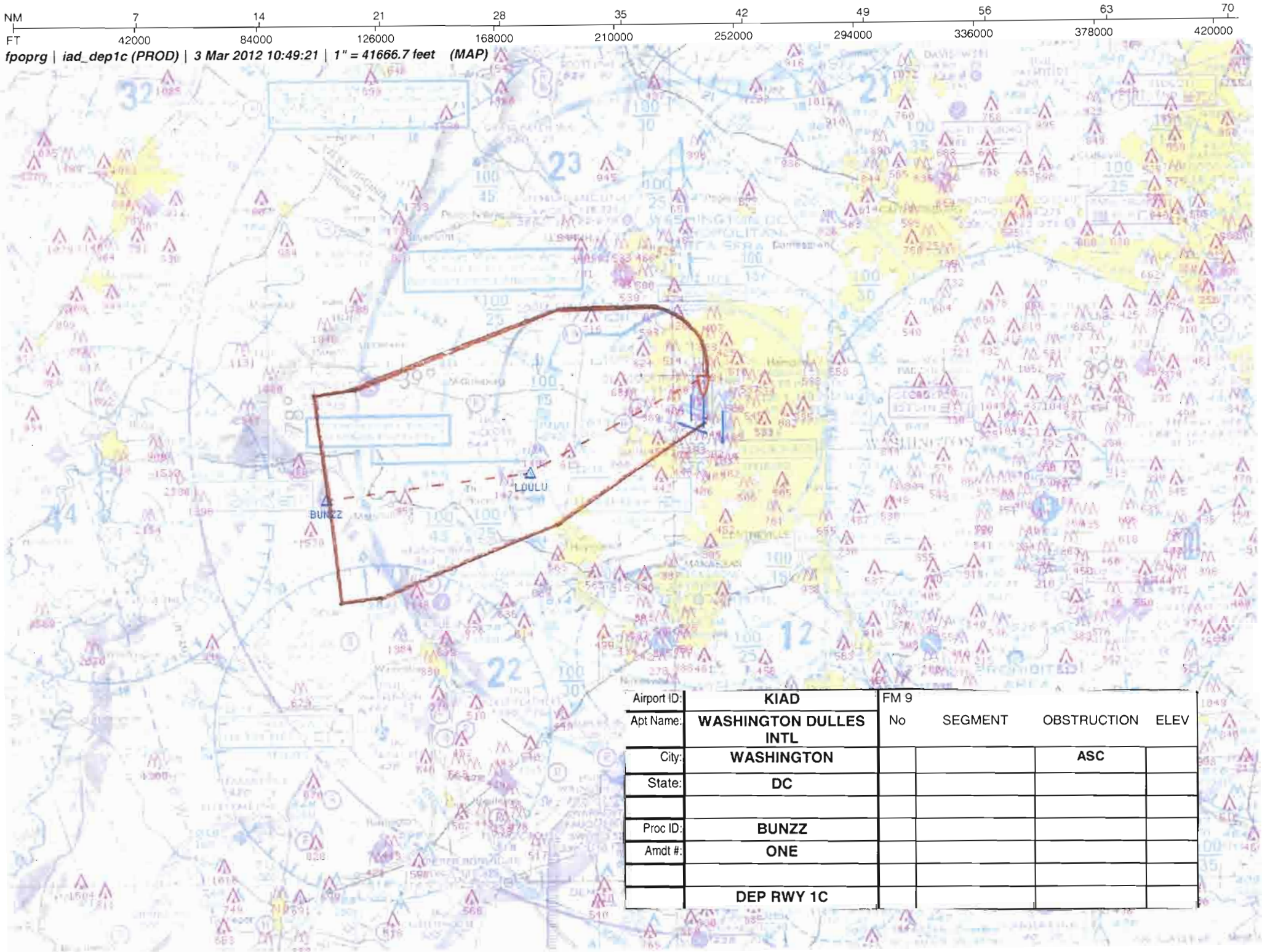
RAMAY TRANSITION (BUNZZ1.RAMAY)

NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: Turbojets only.
NOTE: RADAR required.

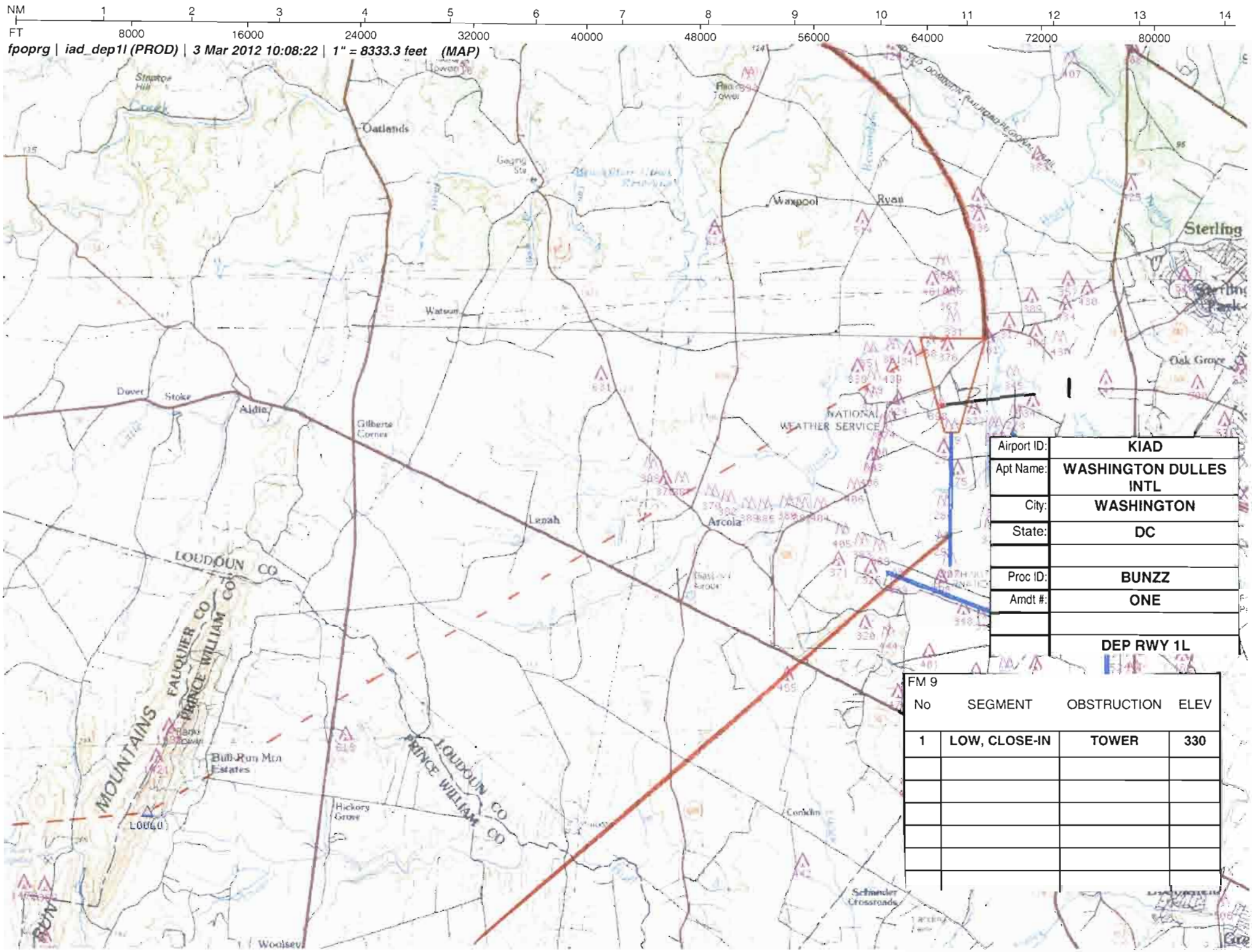
TAKE-OFF MINIMUMS:
Rwy 12: NA-ATC.
Rwys 1C, 1L, 1R, 19C, 19L, 19R, 30: Standard with minimum climb of 500′ per NM to 820.

(BUNZZ1.BUNNZ) FIG
BUNZZ ONE DEPARTURE (RNAV)


NM 1 2 3 4 5 6 7 8 9 10 11 12 13 14
FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000
fpoprg | iad_dep1c (PROD) | 5 Mar 2012 06:07:28 | 1" = 8333.3 feet (MAP)
Oatlands
Waxpool
Ryan
Sterling
Sterling Park
Oak Grove
Gilberts Corner
Arcola
Leesh
LOUDOUN CO
FAUQUIER CO
PRINCE WILLIAM CO
MOUNTAINS
Bull Run Mtn Estates
Hickory Grove
Woolsey
Pleasant Valley
Schlander Crossroads
1
2
Airport ID: KIAD
Apt Name: WASHINGTON DULLES INTL
City: WASHINGTON
State: DC
Proc ID: BUNZZ
Amdt #: ONE
DEP RWY 1C
FM 9
No SEGMENT OBSTRUCTION ELEV
1 LOW, CLOSE-IN TREES 345
2 LOW, CLOSE-IN SIGN 272



Airport ID:	KIAD	FM 9			
Apt Name:	WASHINGTON DULLES INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	WASHINGTON			ASC	
State:	DC				
Proc ID:	BUNZZ				
Amdt #:	ONE				
	DEP RWY 1C				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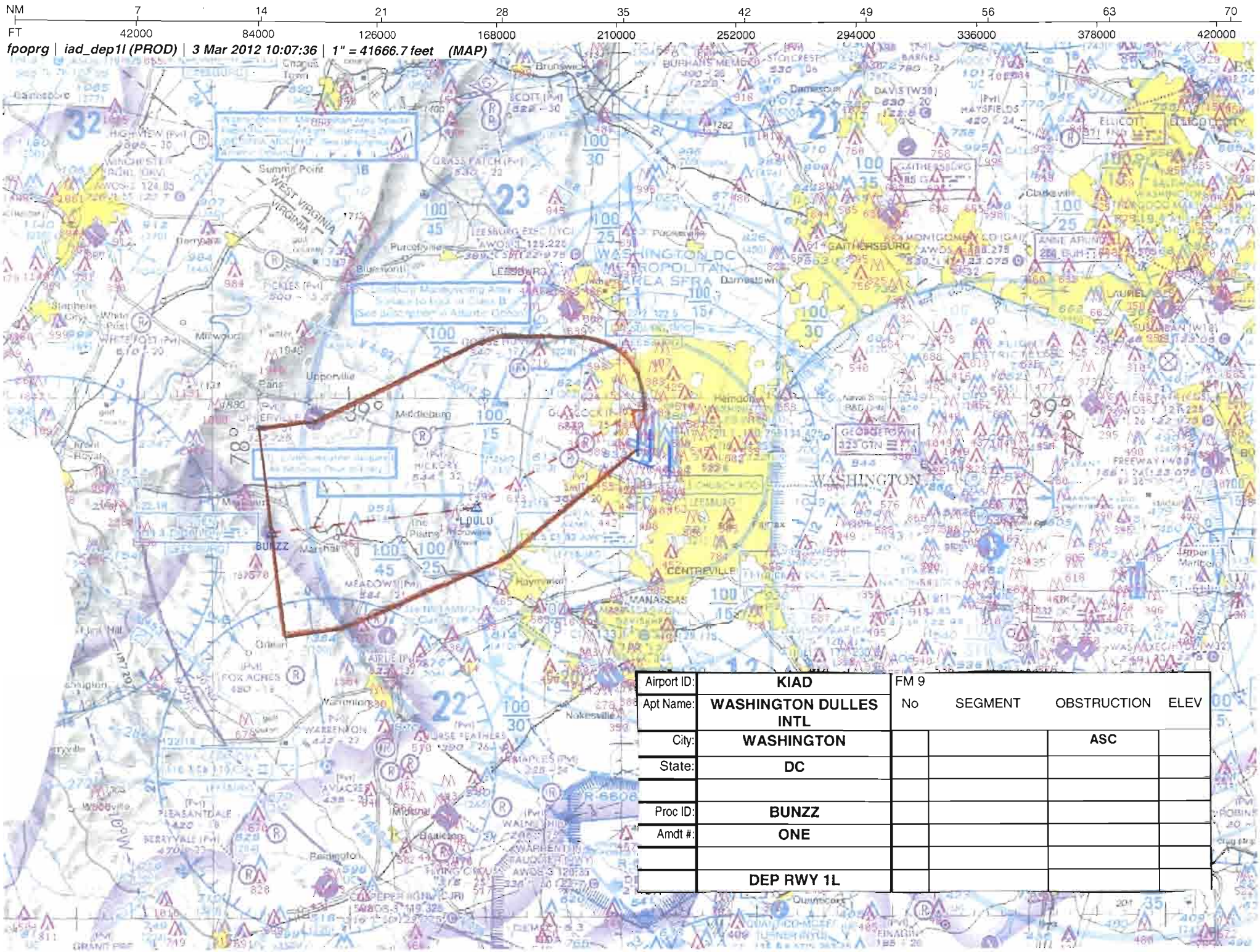
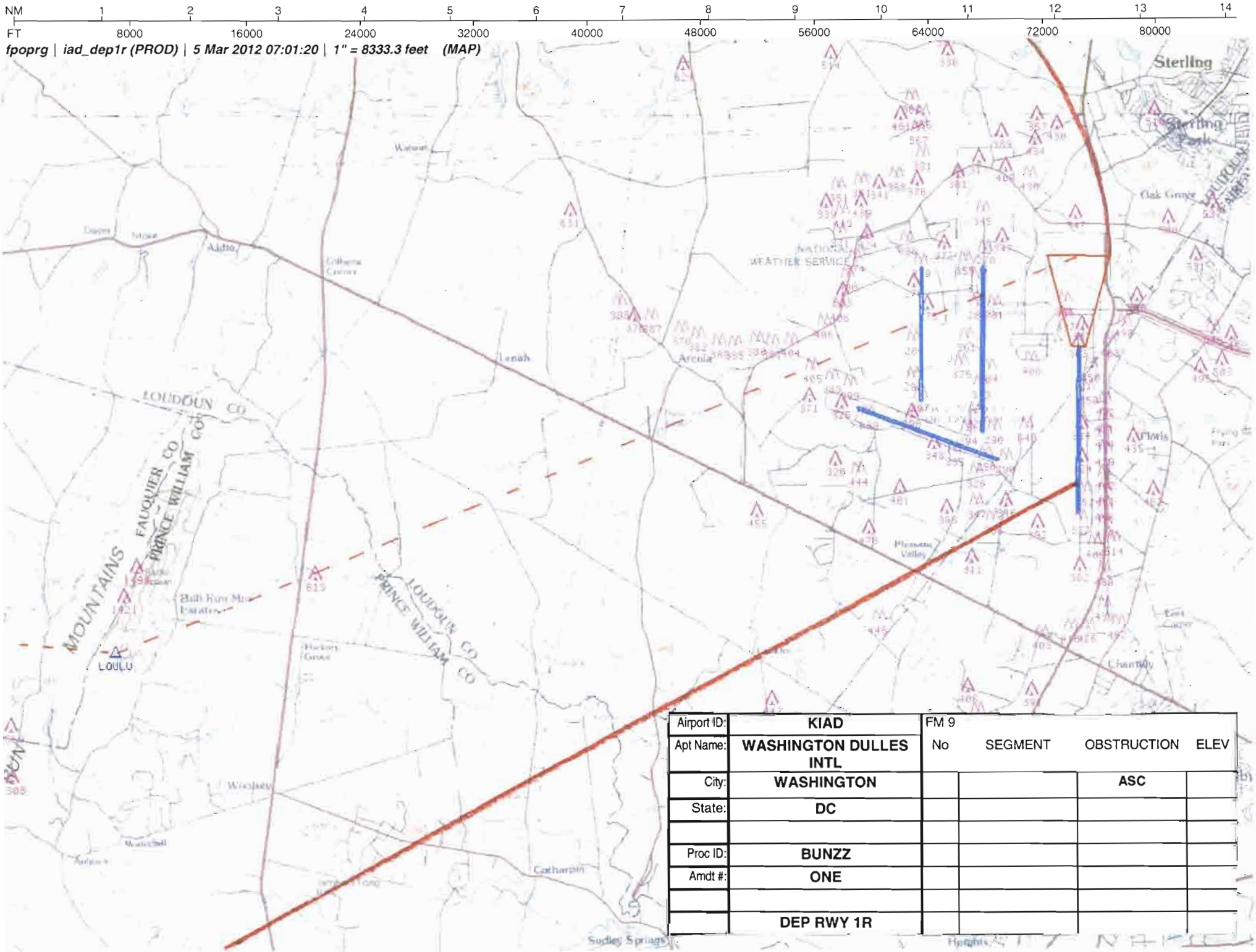
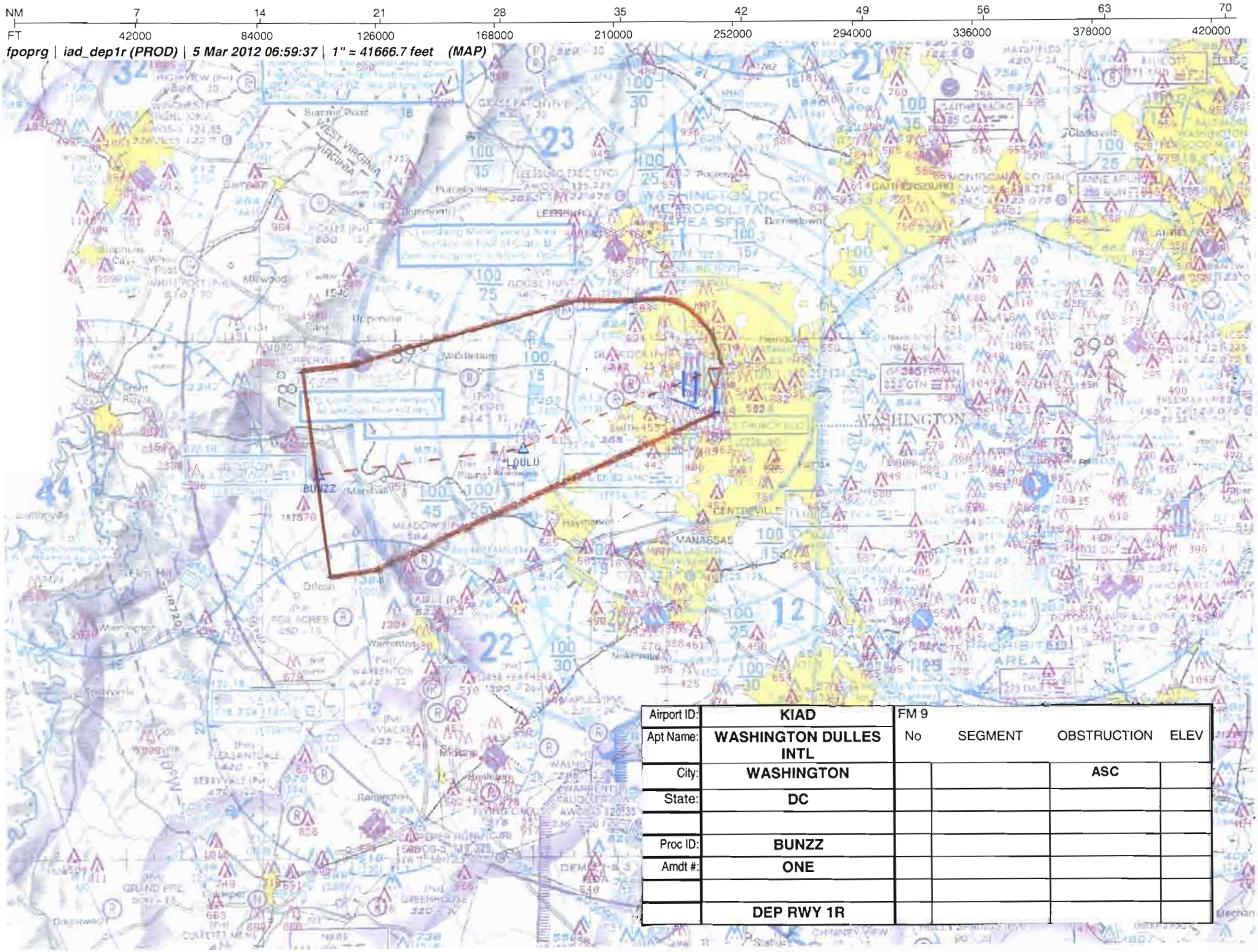
FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000
fpoprg | iad_dep1l (PROD) | 3 Mar 2012 10:08:22 | 1" = 8333.3 feet (MAP)
Oatlands
Watson
Waxpool
Ryan
Sterling
Oak Grove
Dover
Stoke
Aldie
Gilberts Corner
Lenah
Arcola
NATIONAL WEATHER SERVICE
LOUDOUN CO
FAUQUIER CO
PRINCE WILLIAM CO
MOUNTAINS
Bull Run Mtn Estates
Hickory Grove
Coridin
Woolsey
Airport ID: KIAD
Apt Name: WASHINGTON DULLES INTL
City: WASHINGTON
State: DC
Proc ID: BUNZZ
Amdt #: ONE
DEP RWY 1L
FM 9
No SEGMENT OBSTRUCTION ELEV
1 LOW, CLOSE-IN TOWER 330

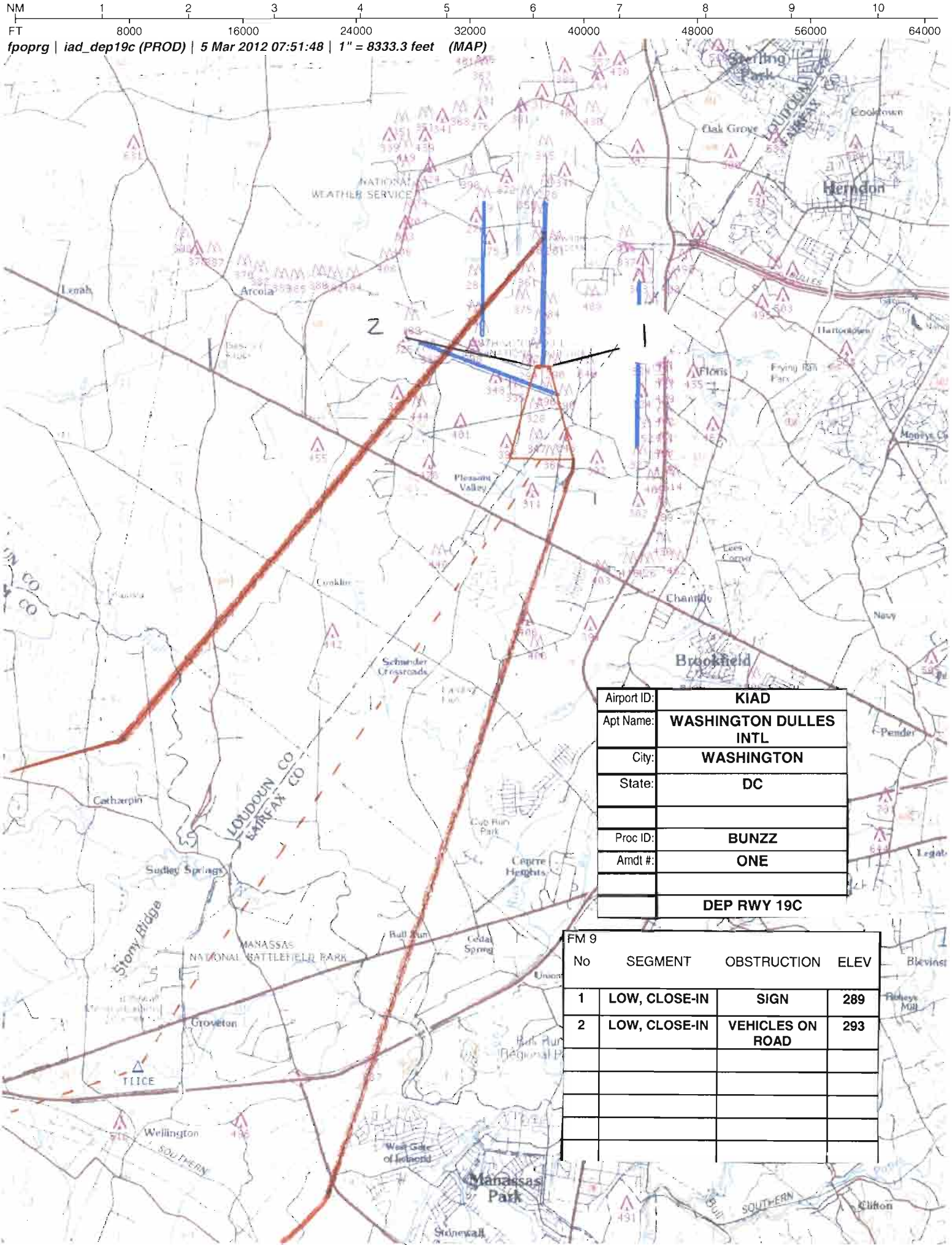


		FM 9			
Airport ID:	KIAD	No	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	WASHINGTON DULLES INTL				
City:	WASHINGTON			ASC	
State:	DC				
Proc ID:	BUNZZ				
Amdt #:	ONE				
	DEP RWY 1L				


NM 1 2 3 4 5 6 7 8 9 10 11 12 13 14
FT 8000 16000 24000 32000 40000 48000 56000 64000 72000 80000
fpoprg | iad_dep1r (PROD) | 5 Mar 2012 07:01:20 | 1" = 8333.3 feet (MAP)
Sterling
Arcola
LOUDOUN CO
PRINCE WILLIAM CO
FAUQUIER CO
MOUNTAINS
LOULU
Airport ID: KIAD
Apt Name: WASHINGTON DULLES INTL
City: WASHINGTON
State: DC
Proc ID: BUNZZ
Amdt #: ONE
DEP RWY 1R
FM 9
No SEGMENT OBSTRUCTION ELEV
ASC



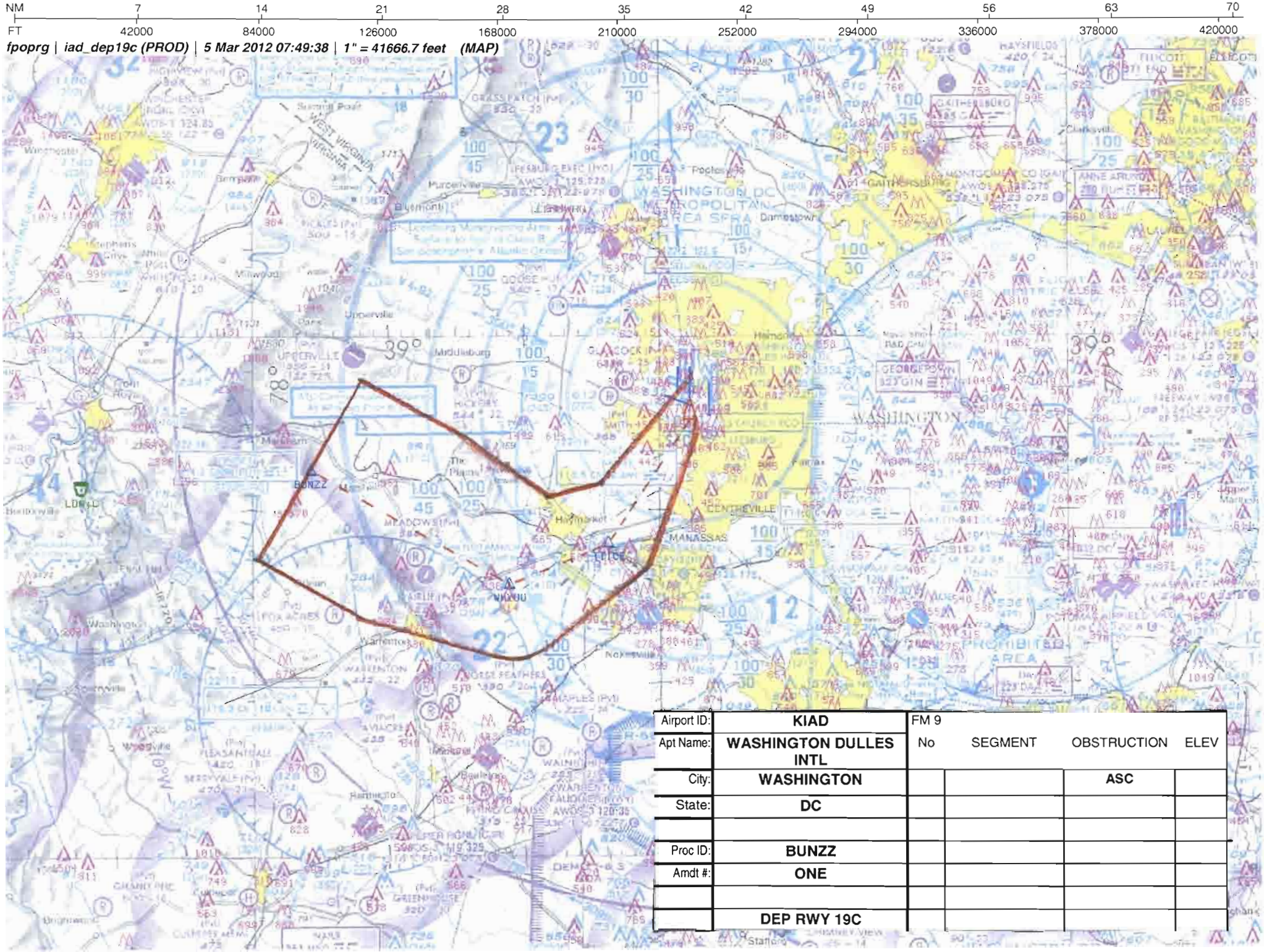
Airport ID:	KIAD	FM 9			
Apt Name:	WASHINGTON DULLES INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	WASHINGTON			ASC	
State:	DC				
Proc ID:	BUNZZ				
Amdt #:	ONE				
	DEP RWY 1R				



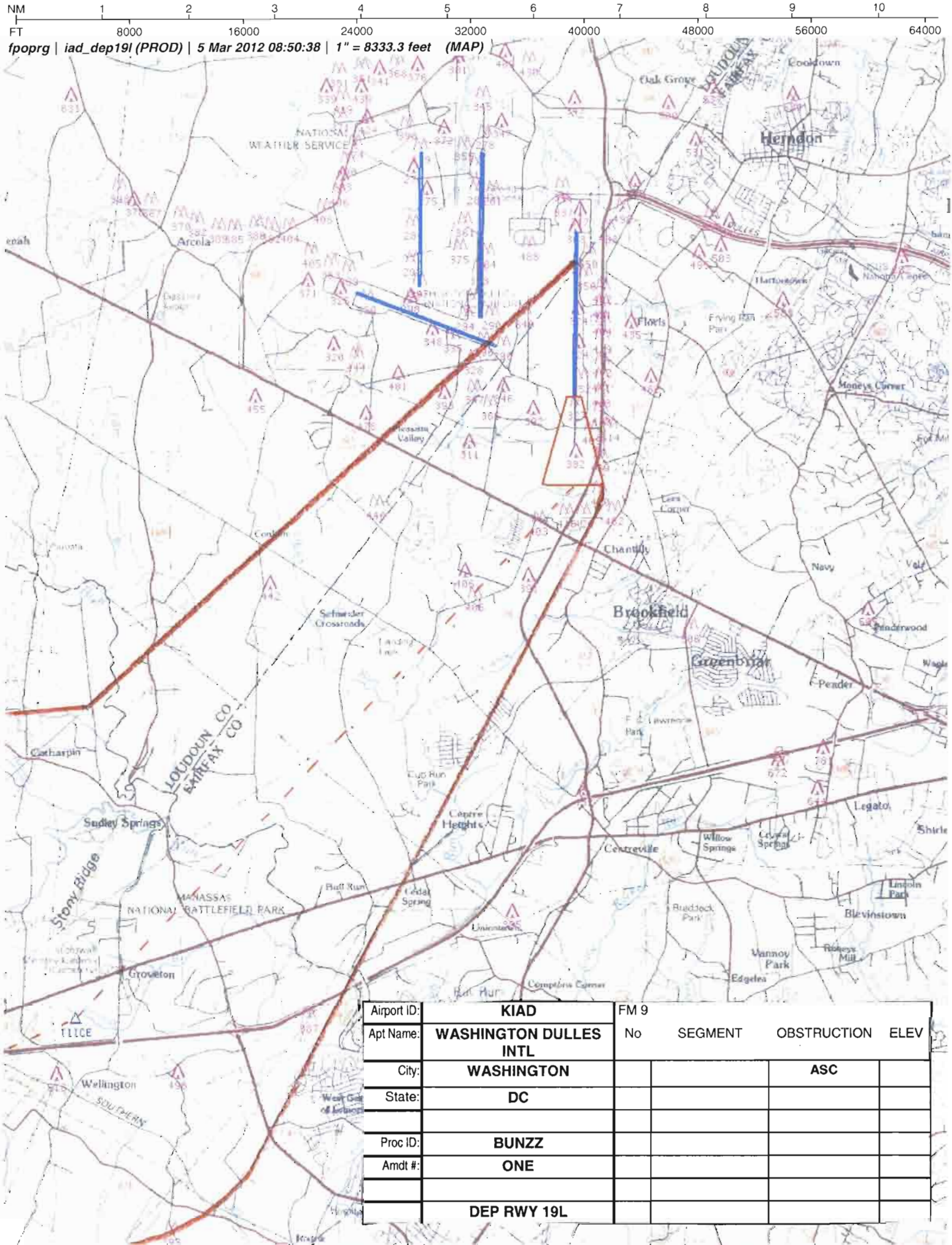
Airport ID:	KIAD
Apt Name:	WASHINGTON DULLES INTL
City:	WASHINGTON
State:	DC
Proc ID:	BUNZZ
Amdt #:	ONE
	DEP RWY 19C

FM 9

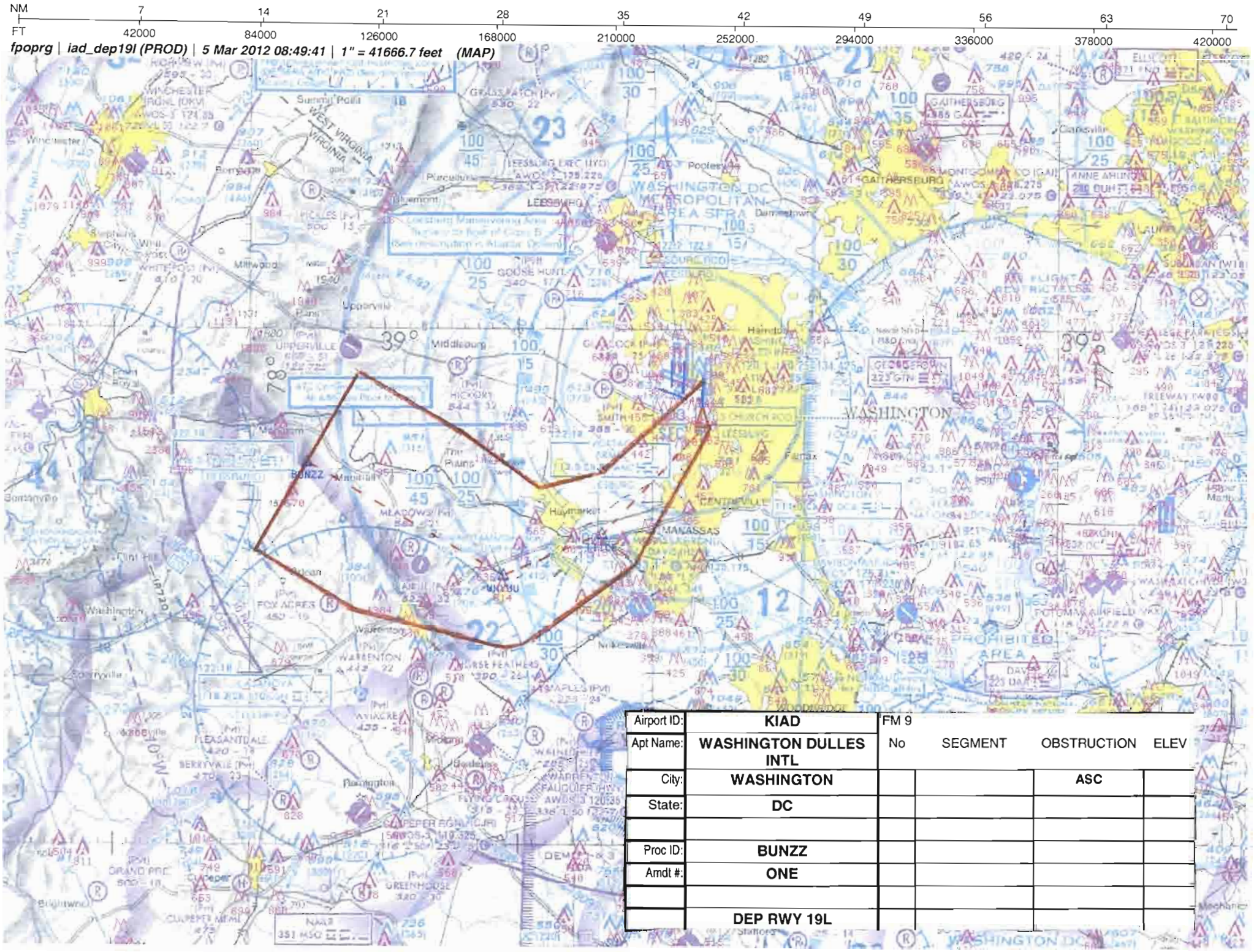
No	SEGMENT	OBSTRUCTION	ELEV
1	LOW, CLOSE-IN	SIGN	289
2	LOW, CLOSE-IN	VEHICLES ON ROAD	293

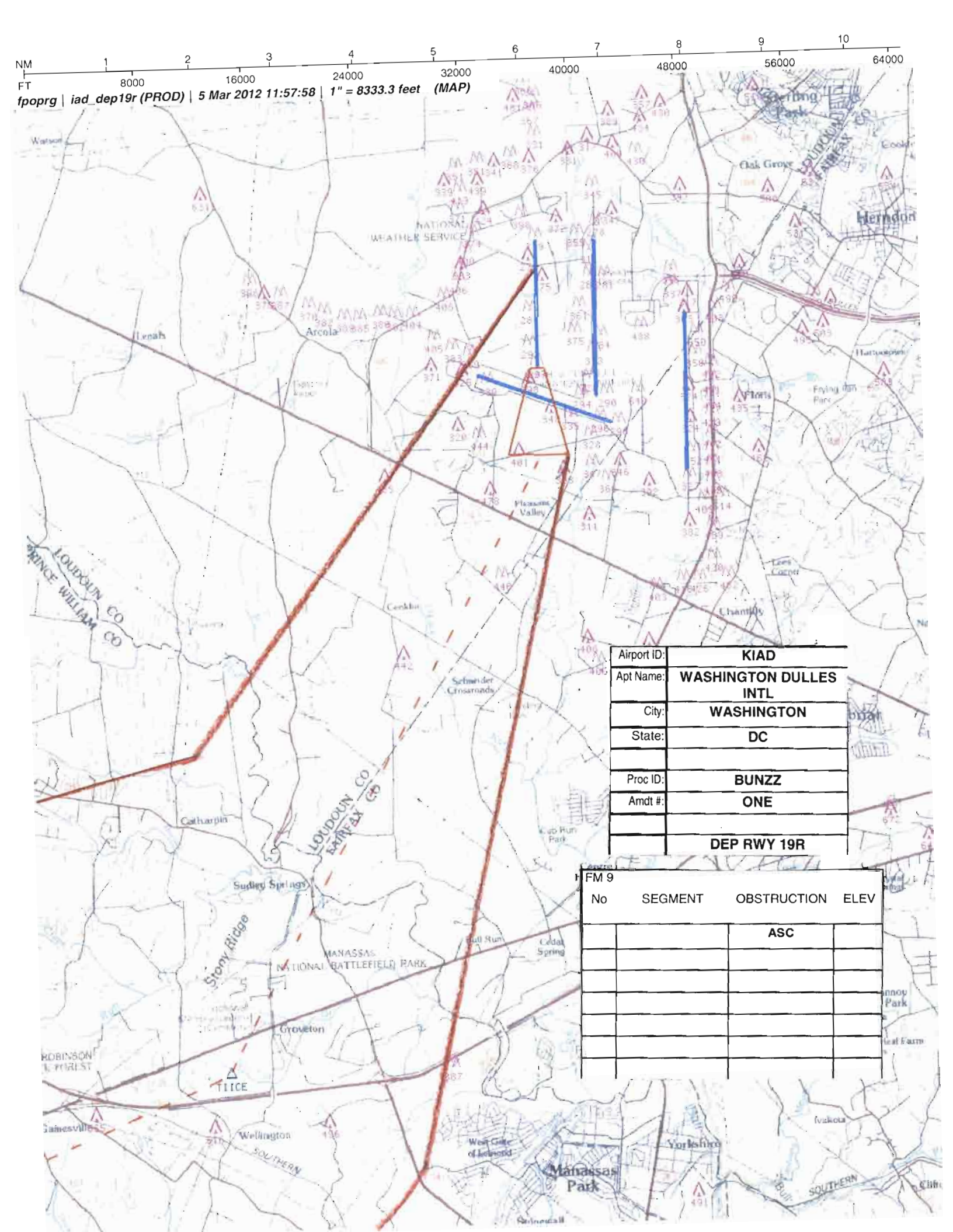


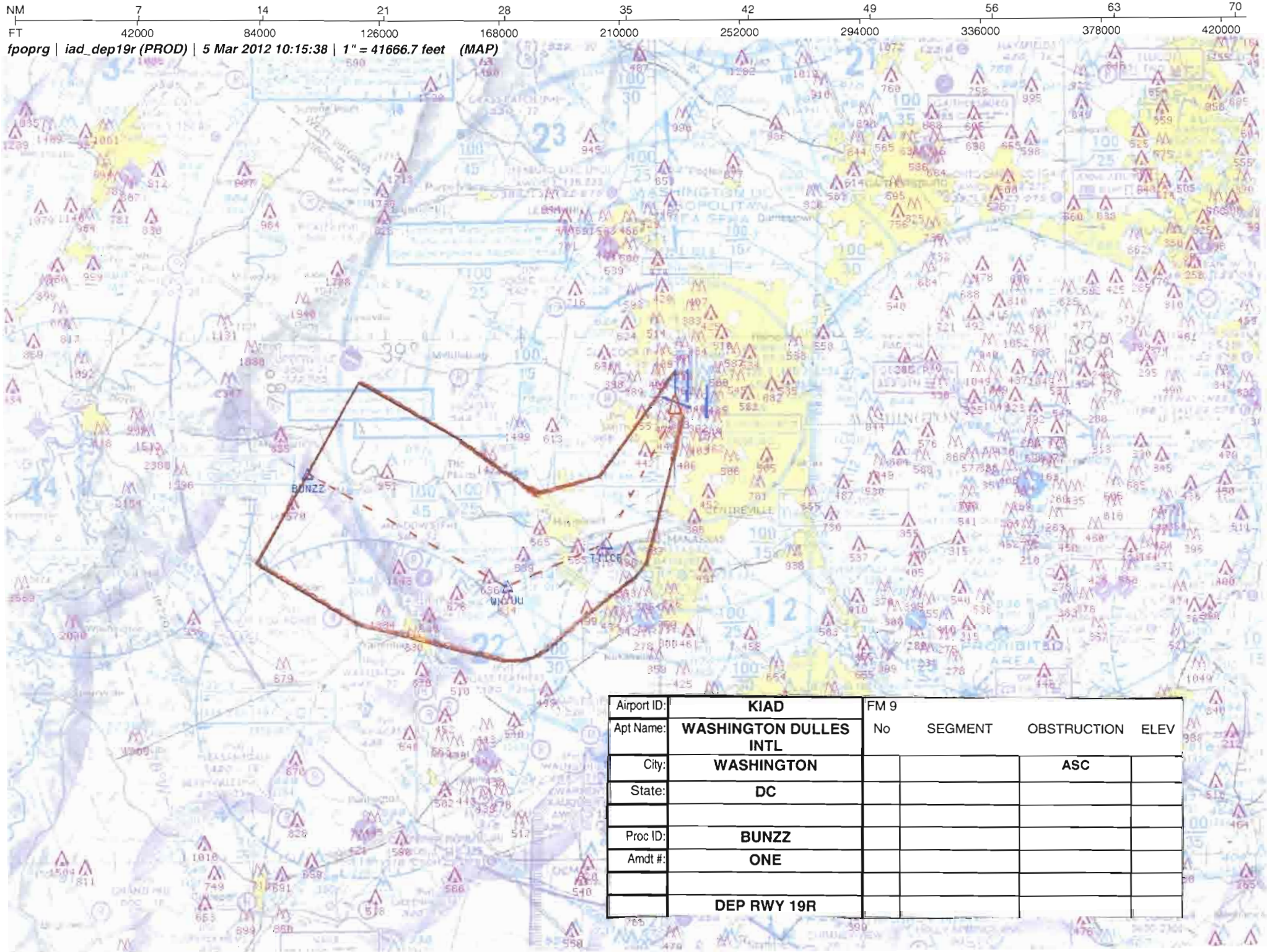
Airport ID:	KIAD	FM 9			
Apt Name:	WASHINGTON DULLES INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	WASHINGTON			ASC	
State:	DC				
Proc ID:	BUNZZ				
Amdt #:	ONE				
	DEP RWY 19C				



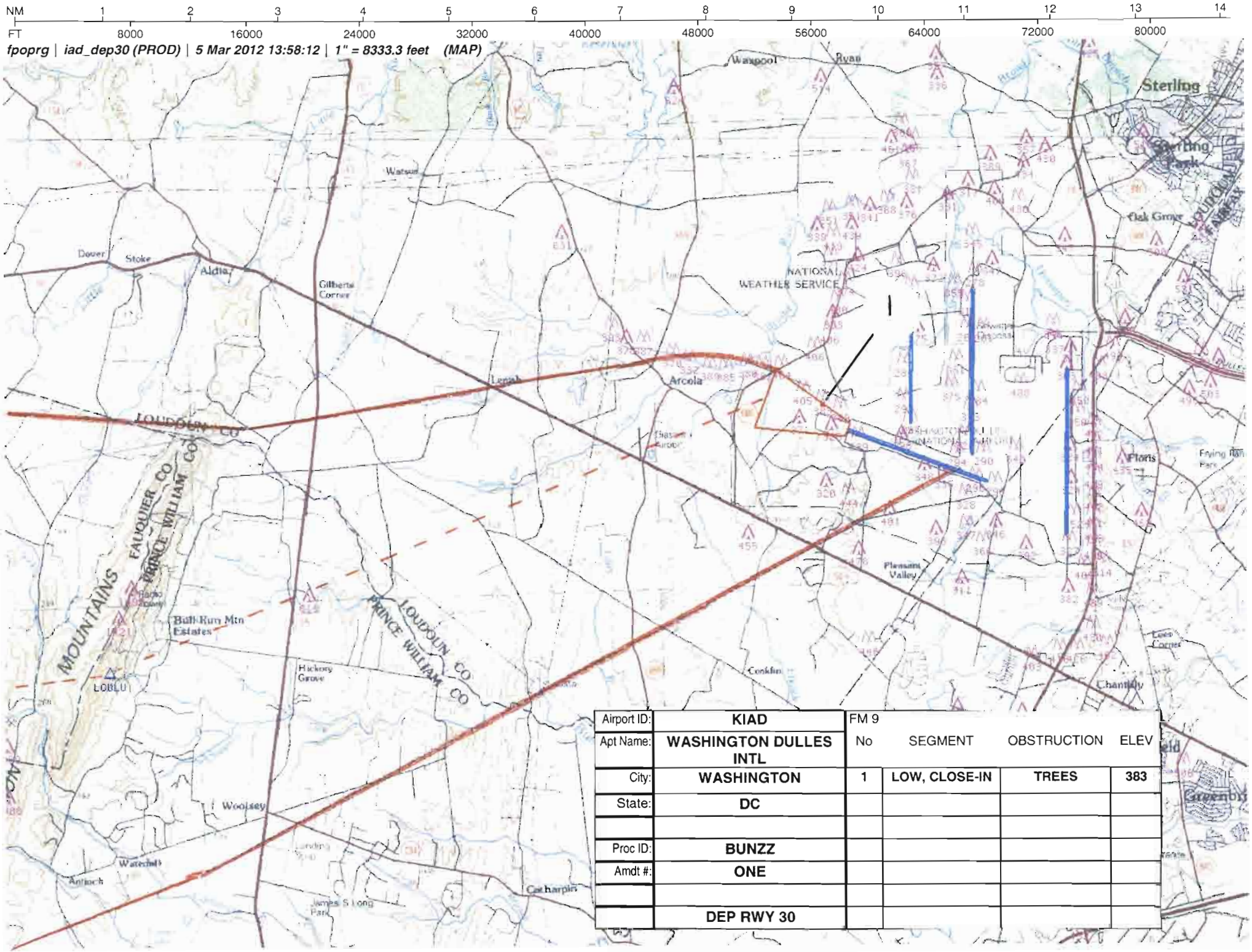
Airport ID:	KIAD	FM 9			
Apt Name:	WASHINGTON DULLES INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	WASHINGTON			ASC	
State:	DC				
Proc ID:	BUNZZ				
Amdt #:	ONE				
	DEP RWY 19L				


NM 7 14 21 28 35 42 49 56 63 70
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
fpoprg | iad_dep19l (PROD) | 5 Mar 2012 08:49:41 | 1" = 41666.7 feet (MAP)
BUNZZ
WASHINGTON
MANASSAS
Airport ID: KIAD
Apt Name: WASHINGTON DULLES INTL
City: WASHINGTON
State: DC
Proc ID: BUNZZ
Amdt #: ONE
DEP RWY 19L
FM 9
No SEGMENT OBSTRUCTION ELEV
ASC

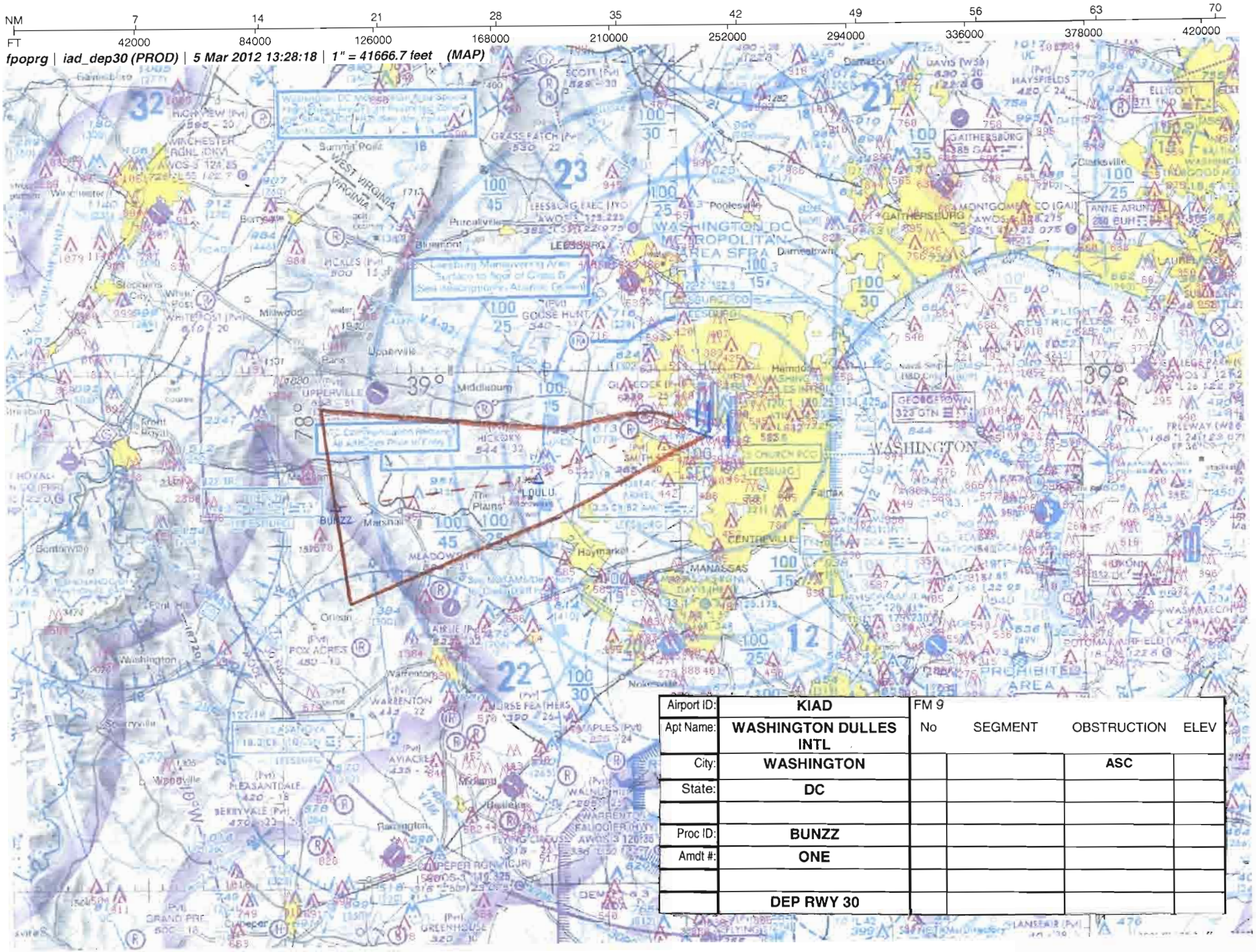

NM 1 2 3 4 5 6 7 8 9 10
FT 8000 16000 24000 32000 40000 48000 56000 64000
fpoprg | iad_dep19r (PROD) | 5 Mar 2012 11:57:58 | 1" = 8333.3 feet (MAP)
Airport ID: KIAD
Apt Name: WASHINGTON DULLES INTL
City: WASHINGTON
State: DC
Proc ID: BUNZZ
Amdt #: ONE
DEP RWY 19R
FM 9
No SEGMENT OBSTRUCTION ELEV
ASC
TIICE
Manassas Park
Manassas National Battlefield Park
Stony Ridge
Sudley Springs
Catharpin
Groveton
Wellington
Yorkshire
Chantilly
Herndon
Sterling Park
Oak Grove
Arcola
Lenah
Haymarket
Flora
Frying Pan Park
Bull Run
Cedar Spring
Ivakota
Loudoun Co
Prince William Co
Fairfax Co
Southern

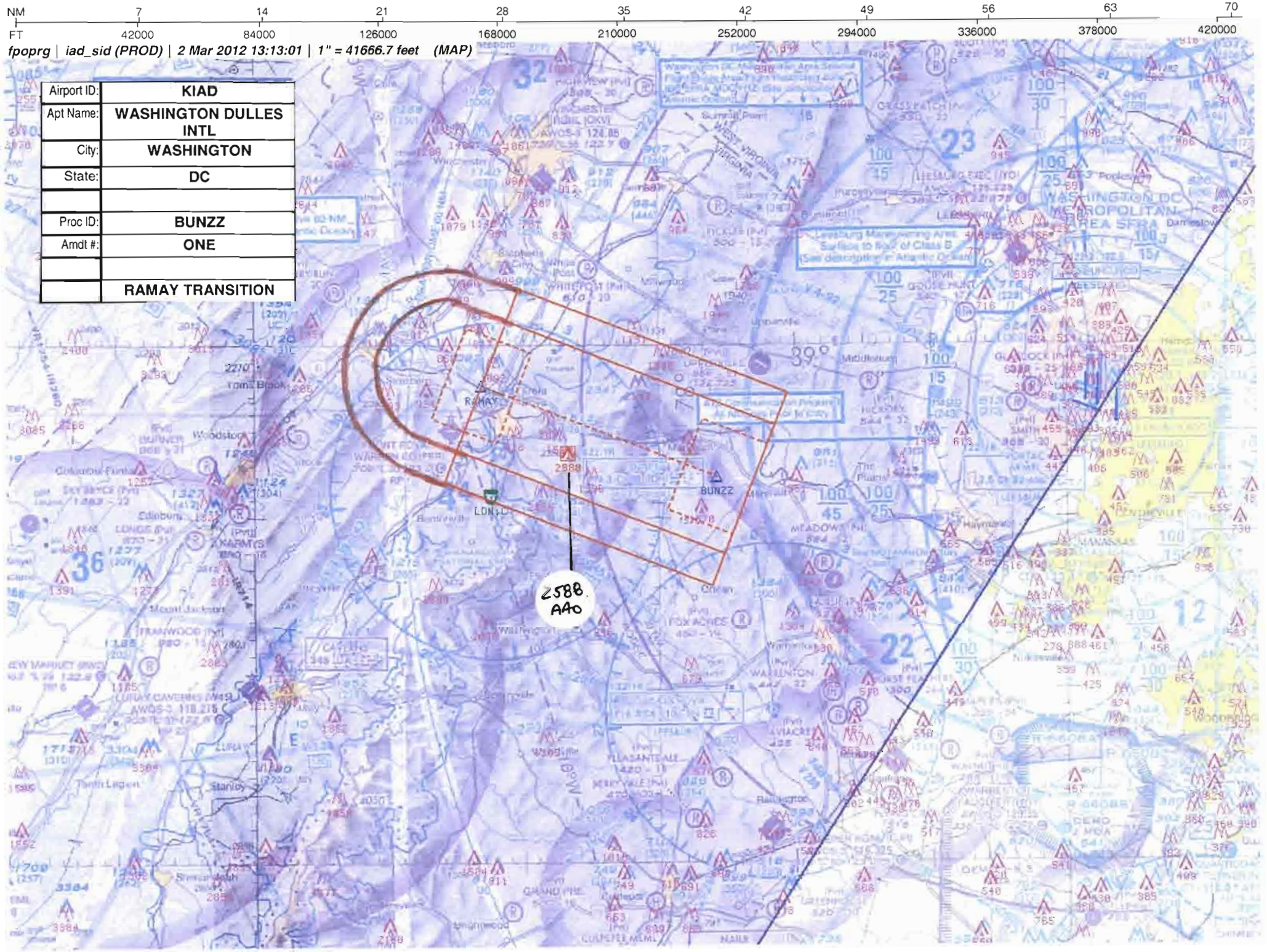


Airport ID:	KIAD	FM 9			
Apt Name:	WASHINGTON DULLES INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	WASHINGTON			ASC	
State:	DC				
Proc ID:	BUNZZ				
Amdt #:	ONE				
	DEP RWY 19R				



Airport ID:	KIAD	FM 9			
Apt Name:	WASHINGTON DULLES INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	WASHINGTON	1	LOW, CLOSE-IN	TREES	383
State:	DC				
Proc ID:	BUNZZ				
Amdt #:	ONE				
	DEP RWY 30				


NM 7 14 21 28 35 42 49 56 63 70
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
fpoprg | iad_dep30 (PROD) | 5 Mar 2012 13:28:18 | 1" = 41666.7 feet (MAP)
WASHINGTON DC METROPOLITAN AREA SFRA
WASHINGTON
LEESBURG
GAITHERSBURG
MANASSAS
CENTREVILLE
Fairfax
Haymarket
Middleburg
Upperville
Purcellville
Bluemont
Poolesville
Damascus
Clarksville
Laurel
Warrenton
Culpeper
Orlean
Marshall
The Plains
Millwood
Boyce
Berryville
Winchester
Washington
Nokesville
Dumfries
Quantico
PROHIBITED AREA
BUNZZ
LOULU
39°
78°
Airport ID: KIAD
Apt Name: WASHINGTON DULLES INTL
City: WASHINGTON
State: DC
Proc ID: BUNZZ
Amdt #: ONE
DEP RWY 30
FM 9
No SEGMENT OBSTRUCTION ELEV
ASC


NM 7 14 21 28 35 42 49 56 63 70
FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000
fpoprg | iad_sid (PROD) | 2 Mar 2012 13:13:01 | 1" = 41666.7 feet (MAP)
Airport ID: KIAD
Apt Name: WASHINGTON DULLES INTL
City: WASHINGTON
State: DC
Proc ID: BUNZZ
Amdt #: ONE
RAMAY TRANSITION
RAMAY
BUNZZ
LDN
2588
A40

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
BUNZZ	**ONE**	**BUNZZ1.BUNZZ**	**NONE**		

TYPE: RNAV , SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 1C/1L: CLIMB HEADING 010.65 TO 820, THEN LEFT TURN DIRECT LOULU (OR HEADING ASSIGNED BY ATC), THEN ON DEPICTED COURSE TO BUNZZ, THENCE...
TAKEOFF RWY 1R: CLIMB HEADING 010.67 TO 820, THEN LEFT TURN DIRECT LOULU (OR HEADING ASSIGNED BY ATC), THEN ON DEPICTED COURSE TO BUNZZ, THENCE...
TAKEOFF RWY 19C/19R: CLIMB HEADING 190.65 TO 820, THEN RIGHT TURN DIRECT TIICE (OR HEADING ASSIGNED BY ATC), THEN ON DEPICTED COURSE TO BUNZZ, THENCE...
TAKEOFF RWY 19L: CLIMB HEADING 190.67 TO 820, THEN RIGHT TURN DIRECT TIICE (OR HEADING ASSIGNED BY ATC), THEN ON DEPICTED COURSE TO BUNZZ, THENCE...
TAKEOFF RWY 30: CLIMB HEADING 300.65 TO 820, THEN LEFT TURN DIRECT LOULU (OR HEADING ASSIGNED BY ATC), THEN ON DEPICTED COURSE TO BUNZZ, THENCE...

... MAINTAIN 3000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN TEN (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
RAMAY	BUNZZ1.RAMAY	BUNZZ	RAMAY	TRACK 301.38	14.55	8500	4600	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1.
NOTE: TURBOJETS ONLY.
NOTE: RADAR REQUIRED.
TAKEOFF MINIMUMS:
RWY 12, NA-ATC.
RWY 1C, 1L, 1R, 19C, 19L, 19R, 30, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 820.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 1C, TREES 2815 FT FROM DER, 1031 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/345 FT MSL. SIGN 64 FT FROM DER, 303 FT RIGHT OF CENTERLINE, 13 FT AGL/272 FT MSL.
NOTE: RWY 1L, TOWER 1917 FT FROM DER, 680 FT LEFT OF CENTERLINE, 51 FT AGL/330 FT MSL.
NOTE: RWY 19C, SIGN 100 FT FROM DER, 472 FT LEFT OF CENTERLINE, 4 FT AGL/289 FT MSL. VEHICLES ON ROAD 24 FT FROM DER, 274 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/293 FT MSL.
NOTE: RWY 30, TREES 2264 FT FROM DER, 1033 FT RIGHT OF CENTERLINE, 72 FT AGL/383 FT MSL.

CONTROLLING OBSTACLES:

LOST COMMUNICATIONS PROCEDURES:

QUALITY 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
BUNZZ	**ONE**	**BUNZZ1.BUNZZ**	**NONE**		

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KIAD 10W EPOCH YEAR: 2000. DME/DME ASSESSMENT: SAT (RNP 2.0)

AIRPORTS SERVED:

WASHINGTON DULLES INTL	WASHINGTON

COMMUNICATIONS:

ATIS, CLEARANCE DEL, GROUND CONTROL, TOWER, DEP CON

FIXES AND/OR NAVAIDS:

WHYUU

QUALITY 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
BUNZZ	**ONE**	**BUNZZ1.BUNZZ**	**NONE**		

REMARKS:

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:
ROUTINE

DEVELOPED BY:
PETER GUIMOND AJV-352 03/02/2012

APPROVED BY:
DARRYEL ADAMS AJV-352

COORDINATED WITH:
ATA, ALPA, APA, AOPA, NBAA, ZDC, POTOMAC APP CON, IAD ATCT, ARPT MGR

CHANGES:
ORIGINAL

REASONS:
EASTERN FPT REQUEST

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BUNZZ	ONE	BUNZZ1.BUNZZ	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW01C (AER)	385620.66N/0772735.21W	N	-	-	-	-			
820 MSL		-	-	VA	000.65	-			CG 500 FT/NM TO 820
LOULU	385350.04N/0774023.43W	Y	FB	DF	-	-			LEFT TURN
BUNZZ	385221.37N/0775536.98W	Y	FB	TF	263.00	11.98			
RW01L (AER)	385641.88N/0772829.32W	N	-	-	-	-			
820 MSL		-	-	VA	000.65	-			CG 500 FT/NM TO 820
LOULU	385350.04N/0774023.43W	Y	FB	DF	-	-			LEFT TURN
BUNZZ	385221.37N/0775536.98W	Y	FB	TF	263.00	11.98			
RW01R (AER)	385525.53N/0772611.22W	N	-	-	-	-			
820 MSL		-	-	VA	000.67	-			CG 500 FT/NM TO 820
LOULU	385350.04N/0774023.43W	Y	FB	DF	-	-			LEFT TURN
BUNZZ	385221.37N/0775536.98W	Y	FB	TF	263.00	11.98			
RW19C (AER)	385814.29N/0772733.56W	N	-	-	-	-			
820 MSL		-	-	VA	180.65	-			CG 500 FT/NM TO 820
TIICE	384813.65N/0773334.49W	Y	FB	DF	-	-			RIGHT TURN
WHYUU	384549.18N/0774054.02W	Y	FB	TF	247.26	6.21			
BUNZZ	385221.37N/0775536.98W	Y	FB	TF	299.66	13.23			
RW19L (AER)	385719.19N/0772609.53W	N	-	-	-	-			
820 MSL		-	-	VA	180.67	-			CG 500 FT/NM TO 820
TIICE	384813.65N/0773334.49W	Y	FB	DF	-	-			RIGHT TURN
WHYUU	384549.18N/0774054.02W	Y	FB	TF	247.26	6.21			
BUNZZ	385221.37N/0775536.98W	Y	FB	TF	299.66	13.23			
RW19R (AER)	385814.78N/0772827.98W	N	-	-	-	-			
820 MSL		-	-	VA	180.65	-			CG 500 FT/NM TO 820
TIICE	384813.65N/0773334.49W	Y	FB	DF	-	-			RIGHT TURN
WHYUU	384549.18N/0774054.02W	Y	FB	TF	247.26	6.21			
BUNZZ	385221.37N/0775536.98W	Y	FB	TF	299.66	13.23			

QUALITY 4 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BUNZZ	ONE	BUNZZ1.BUNZZ	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW30 (AER)	385601.00N/0772721.23W	N	-	-	-	-			
820 MSL		-	-	VA	290.65	-			CG 500 FT/NM TO 820
LOULU	385350.04N/0774023.43W	Y	FB	DF	-	-			LEFT TURN
BUNZZ	385221.37N/0775536.98W	Y	FB	TF	263.00	11.98			
BUNZZ	385221.37N/0775536.98W	Y	-	IF	-	-			BUNZZ1.RAYMY
RAMAY	385738.57N/0781259.01W	Y	FB	TF	291.38	14.55			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BUNZZ (RNAV)	ONE	BUNZZ1.BUNZZ	NONE		

ARINC PACKET - 424-18 - SID

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BUNZZ K60    W     N38522137W077553698                    W0102     NAR          BUNZZ
        SUSAEAENRT   LOULU K60    W     N38535004W077402343                    W0104     NAR          LOULU
        SUSAEAENRT   RAMAY K60    W   B N38573857W078125901                    W0101     NAR          RAMAY
        SUSAEAENRT   TIICE K60    W     N38481365W077333449                    W0105     NAR          TIICE
        SUSAEAENRT   WHYUU K60    W     N38454918W077405402                    W0104     NAR          WHYUU

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIADK6AIAD     0     115YHN38565080W077273580W010000312         1800018000C    MNAR    WASHINGTON DULLES INTL

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIADK6DBUNZZ14RW01B 010         0       VA                     0107        + 00820     18000
        SUSAP KIADK6DBUNZZ14RW01B 020LOULUK6EA0E   L010DF
        SUSAP KIADK6DBUNZZ14RW01B 030BUNZZK6EA0EE  010TF                     27300120
        SUSAP KIADK6DBUNZZ14RW19B 010         0       VA                     1907        + 00820     18000
        SUSAP KIADK6DBUNZZ14RW19B 020TIICEK6EA0E   010DF
        SUSAP KIADK6DBUNZZ14RW19B 030WHYUUK6EA0E   010TF                     25730062
        SUSAP KIADK6DBUNZZ14RW19B 040BUNZZK6EA0EE  010TF                     30970132
        SUSAP KIADK6DBUNZZ14RW30  010         0       VA                     3007        + 00820     18000
        SUSAP KIADK6DBUNZZ14RW30  020LOULUK6EA0E   010DF
        SUSAP KIADK6DBUNZZ14RW30  030BUNZZK6EA0EE  010TF                     27300120
        SUSAP KIADK6DBUNZZ15      010BUNZZK6EA0E      IF                                             18000
        SUSAP KIADK6DBUNZZ15      020RAMAYK6EA0EE  010TF                     30140146

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KIADK6GRW01C   0114970107 N38562066W077273521-0200    +005530028600005415OIIOSZ1
        SUSAP KIADK6GRW01L   0094000107 N38564188W077282932-0200    +005830029600005415OIIOIU3
        SUSAP KIADK6GRW01R   0115000107 N38552553W077261122-0200    +006320031200005315OIIIAD3
        SUSAP KIADK6GRW19C   0114971907 N38581429W077273356+0200    +005000026900005415OIIDLX3
        SUSAP KIADK6GRW19L   0115001907 N38571919W077260953+0200    +005750029300005615OIISGC1
        SUSAP KIADK6GRW19R   0094001907 N38581478W077282798+0200    +005250027700005115OIIISU3
        SUSAP KIADK6GRW30    0105013007 N38560100W077272123+0200    +00558002880000501 50D
```

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BUNZZ (RNAV)	ONE	BUNZZ1.BUNZZ	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW01B		010		VA		FB		010.7()		AA 00820	
	RW01B	LOULU	020		DF	L	FB	1.0				
	RW01B	BUNZZ	030		TF		FB	1.0	273.0()	012.0		
	RW19B		010		VA		FB		190.7()		AA 00820	
	RW19B	TIICE	020		DF		FB	1.0				
	RW19B	WHYUU	030		TF		FB	1.0	257.3()	006.2		
	RW19B	BUNZZ	040		TF		FB	1.0	309.7()	013.2		
	RW30		010		VA		FB		300.7()		AA 00820	
	RW30	LOULU	020		DF		FB	1.0				
	RW30	BUNZZ	030		TF		FB	1.0	273.0()	012.0		
		BUNZZ	010		IF		FB					
		RAMAY	020		TF		FB	1.0	301.4()	014.6		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
BUNZZ	N385221.37	W0775536.98	N3852.356	W07755.616
LOULU	N385350.04	W0774023.43	N3853.834	W07740.391
RAMAY	N385738.57	W0781259.01	N3857.643	W07812.984
TIICE	N384813.65	W0773334.49	N3848.228	W07733.575
WHYUU	N384549.18	W0774054.02	N3845.820	W07740.900
RW01C	N385620.66	W0772735.21	N3856.344	W07727.587
RW01L	N385641.88	W0772829.32	N3856.698	W07728.489
RW01R	N385525.53	W0772611.22	N3855.426	W07726.187
RW19C	N385814.29	W0772733.56	N3858.238	W07727.559
RW19L	N385719.19	W0772609.53	N3857.320	W07726.159
RW19R	N385814.78	W0772827.98	N3858.246	W07728.466
RW30	N385601.00	W0772721.23	N3856.017	W07727.354

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW01C	00286	54
RW01L	00296	54
RW01R	00312	53
RW19C	00269	54
RW19L	00293	56
RW19R	00277	51
RW30	00288	50

RADIO FIX AND HOLDING DATA RECORD

NAME: BUNZZ **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 385221.37N/0775536.98W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BUNZZ (RNAV)			KIAD	WASHINGTON	DC (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/02/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: POTOMAC APP CON
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LOULU **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 385350.04N/0774023.43W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES (RNAV)			KIAD	WASHINGTON	DC (US)
DP	BUNZZ (RNAV)			KIAD	WASHINGTON	DC (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/02/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: POTOMAC APP CON
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TIICE **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 384813.65N/0773334.49W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES (RNAV)			KIAD	WASHINGTON	DC (US)
DP	BUNZZ (RNAV)			KIAD	WASHINGTON	DC (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/02/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: POTOMAC APP CON
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WHYUU **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 384549.18N/0774054.02W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES (RNAV)			KIAD	WASHINGTON	DC (US)
DP	BUNZZ (RNAV)			KIAD	WASHINGTON	DC (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/02/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: POTOMAC APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: RAMAY **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 385738.57N/0781259.01W **TYPE:** WP

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

INFO ONLY

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

REMARKS:
COORDINATION FIX FOR POTOMAC TRACON

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BUNZZ (RNAV)			KIAD	WASHINGTON	DC (US)
DP	TERPZ (RNAV)			KBWI	BALTIMORE	MD (US)
EN ROUTE	J109					(US)
EN ROUTE	J149					(US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/23/2010

REASON FOR REVISION:
DELETED FAC 1 (WP) DATA.
MOVED FIX 8.13' NORTH.
UPDATED FIX USE.

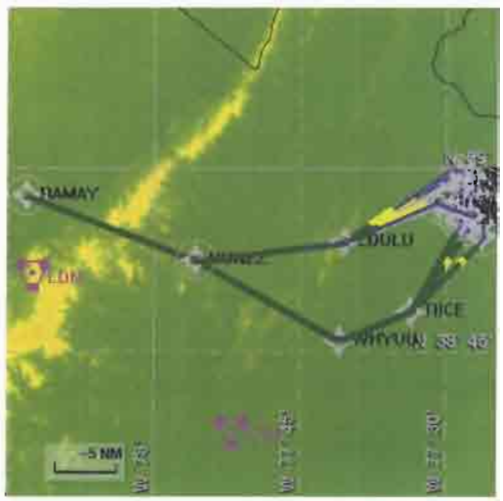
DEVELOPED BY: **DATE:** 03/12/2010 **OFFICE:** AVN-110 **NAME:** BRIAN SHAFFER

APPROVED BY: **DATE:** 07/27/2010 **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: PCT TRACON
OTHER: BWI AIRPORT MANAGER

QUALITY 4 CHECKED



Name:	DAVE COOK
Project Name:	KIAD BUNZZ1 SID ALL TRANSITIONS 20120201
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	2/1/2012 11:52:21 AM
Input File:	KIAD BUNZZ1 SID RW01...
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	?	

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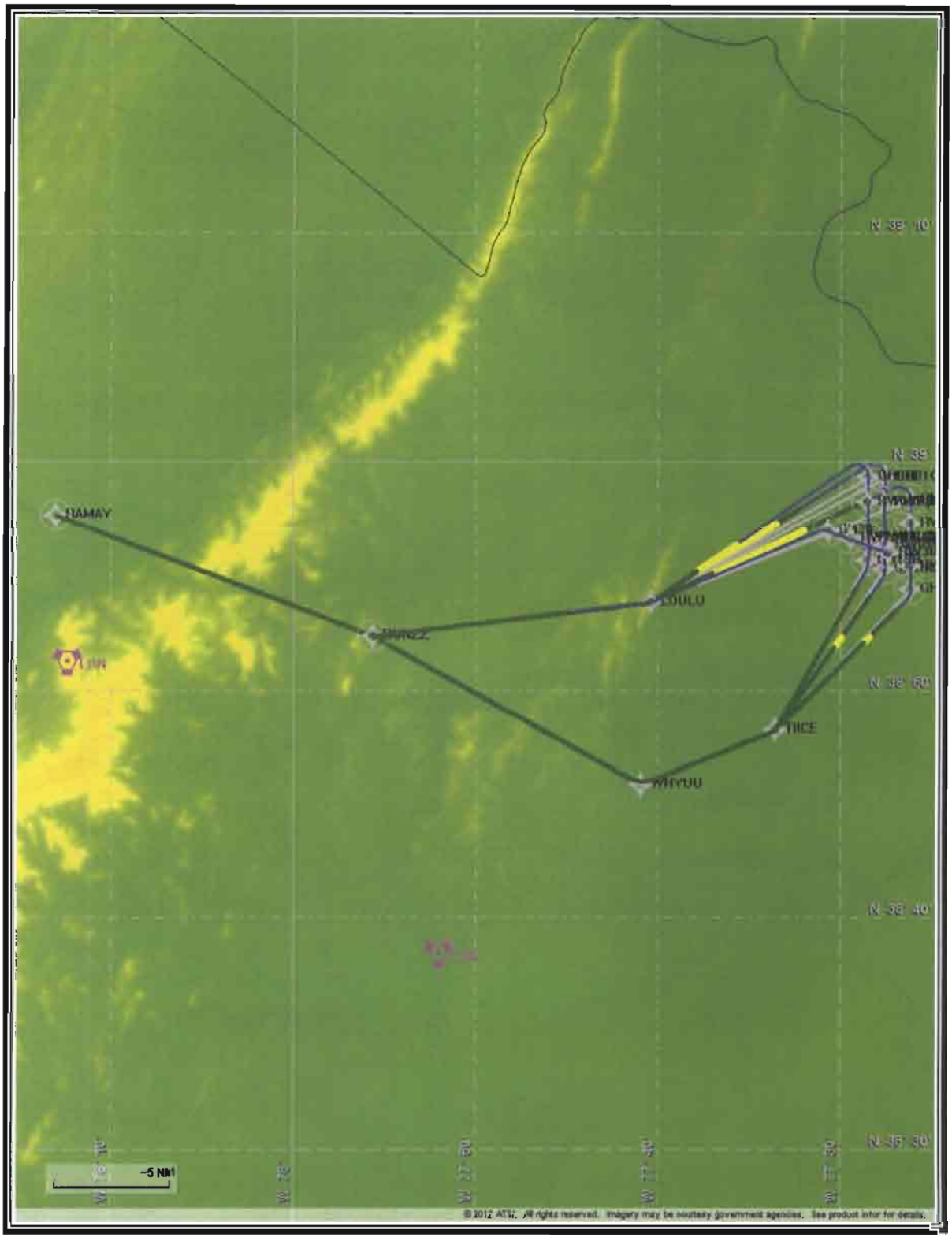
N 39° 10'
N 39°
DAMAY
LOULU
BUNZZ
LHW
N 38° 50'
TICE
MYYUU
N 38° 40'
N 38° 30'
~5 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW01C(...	WP	N 38° 56' 20.64" W 77° 27' 35.21"	286.3	VNAV	0.0	Fly Over	TF
RW19C(...	WP	N 38° 58' 14.30" W 77° 27' 33.57"	303.7	VNAV	130.0	Fly Over	VA
GH01C	WP	N 38° 59' 20.51" W 77° 27' 32.61"	820.0	VNAV	145.0	Fly Over	DF
LOULU	WP	N 38° 53' 50.04" W 77° 40' 23.43"	3106.9	VNAV	180.0	Fly By	TF
BUNZZ	WP	N 38° 52' 21.37" W 77° 55' 36.98"	5502.9	VNAV	180.0	Fly By	TF
RAMAY	WP	N 38° 57' 38.57" W 78° 12' 59.01"	8412.4	VNAV	180.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KIAD
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 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 LOULU could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -15.54 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:

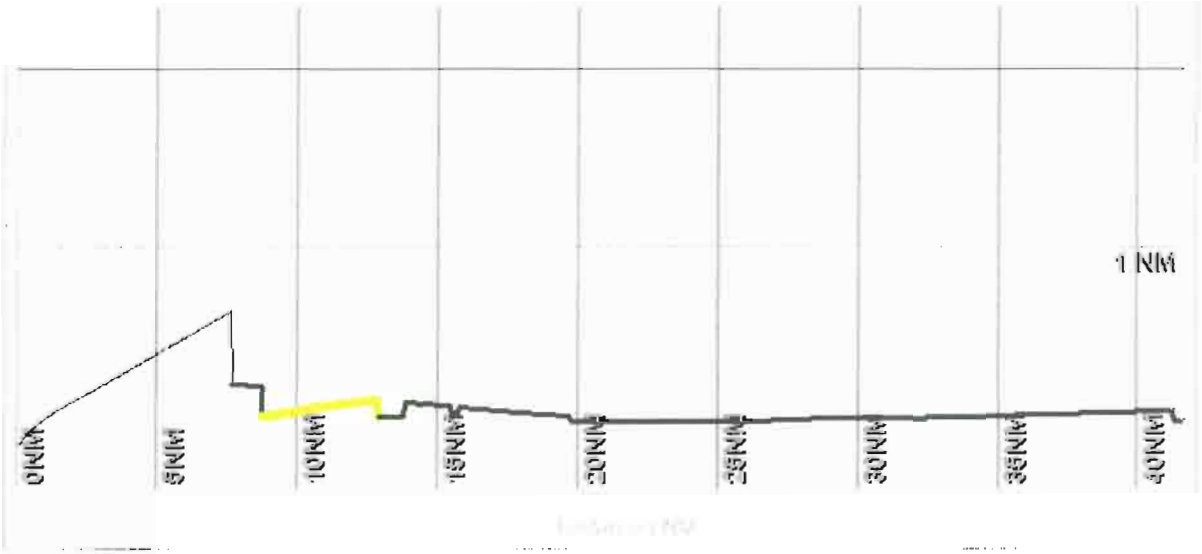
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 3107 Ft.

Total Number of DMEs Used: 5

Maximum DME Error: 0.736 NM.

No Critical DMEs were found.

Available DMEs: EMI, CSN, LDN, AML, ADW, MRB, ESL



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CSN	N 38° 38' 28.29" W 77° 51' 55.79"	H	Database	NO	1.365	Enabled	36.0 %	36.3 %
2	LDN	N 38° 51' 15.81" W 78° 12' 20.00"	L	Database	NO	1.078	Enabled	30.8 %	36.5 %
3	AML	N 38° 56' 4.55" W 77° 28' 0.10"	L	Database	NO	0.736	Enabled	39.6 %	43.3 %
4	ADW	N 38° 48' 25.96" W 76° 51' 58.50"	L	Database	NO	0.736	Enabled	2.7 %	2.8 %
5	MRB	N 39° 23' 8.06" W 77° 50' 54.08"	L	Database	NO	0.852	Enabled	35.7 %	44.6 %

Flight Check DME Selection

Distance [NM]	Selected DMEs				Alternate
0.0					
1.9					
2.9	CSN	LDN	AML	ADW	EMI
14.6	CSN	LDN	AML	ADW	MRB
26.5	CSN	LDN	AML	ESL	MRB

DME/DME (Continued.)

Return To Summary

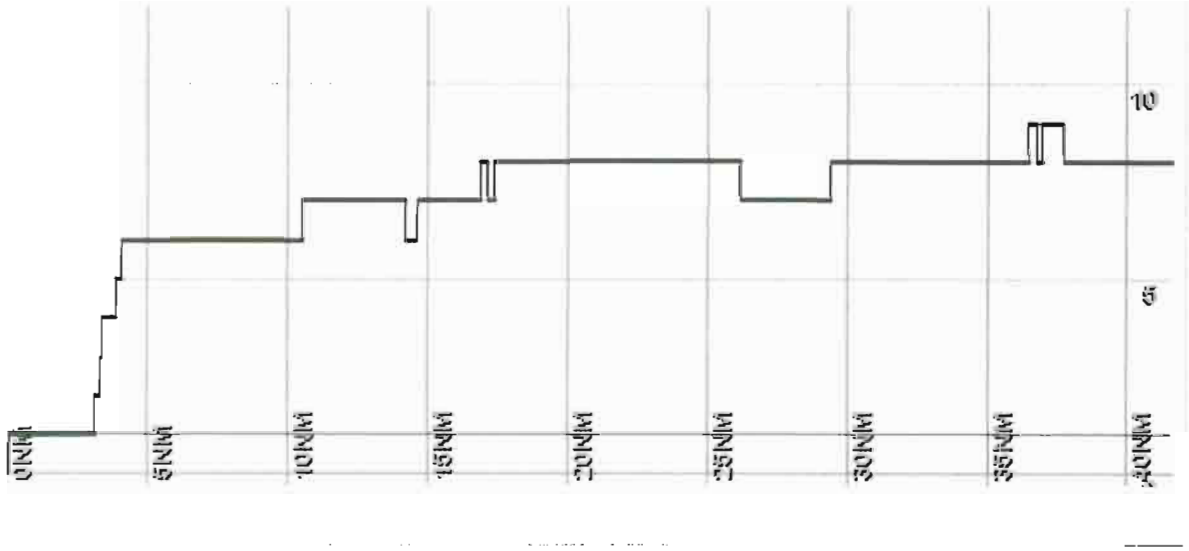
Inertial Drift Segments

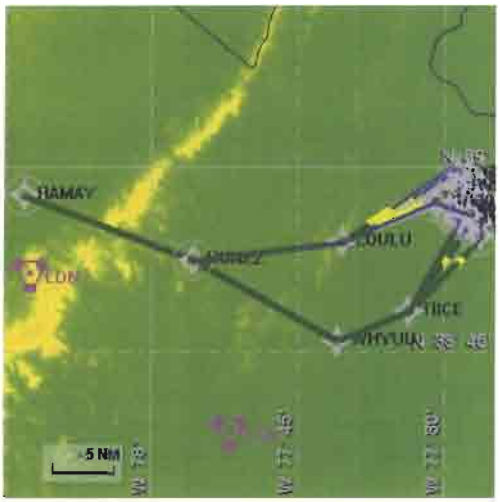
#	Start Location	End Location	Length [NM]
1	N 38° 56' 20.64" W 77° 27' 35.21"	N 38° 57' 57.16" W 77° 32' 15.64"	7.6
	VOR: ADW	Available from N 38° 56' 20.64" W 77° 27' 35.21" to N 38° 57' 57.16" W 77° 32' 15.64"	
	VOR: AML	Available from N 38° 56' 20.64" W 77° 27' 35.21" to N 38° 57' 57.16" W 77° 32' 15.64"	
	VOR: BAL	Available from N 38° 56' 20.64" W 77° 27' 35.21" to N 38° 59' 31.77" W 77° 29' 8.29"	
	VOR: BRV	Available from N 38° 56' 20.64" W 77° 27' 35.21" to N 38° 57' 57.16" W 77° 32' 15.64"	
	VOR: CSN	Available from N 38° 56' 20.64" W 77° 27' 35.21" to N 38° 57' 57.16" W 77° 32' 15.64"	
	VOR: DCA	Available from N 38° 56' 20.64" W 77° 27' 35.21" to N 38° 57' 57.16" W 77° 32' 15.64"	
	VOR: FDK	Available from N 38° 56' 20.64" W 77° 27' 35.21" to N 38° 57' 57.16" W 77° 32' 15.64"	
	VOR: LDN	Available from N 38° 56' 20.64" W 77° 27' 35.21" to N 38° 57' 57.16" W 77° 32' 15.64"	
	VOR: MRB	Available from N 38° 56' 20.64" W 77° 27' 35.21" to N 38° 57' 57.16" W 77° 32' 15.64"	
	VOR: OTT	Available from N 38° 56' 20.64" W 77° 27' 35.21" to N 38° 58' 15.66" W 77° 31' 39.04"	
	VOR: EMI	Available from N 38° 56' 33.56" W 77° 27' 35.02" to N 38° 58' 34.15" W 77° 31' 2.44"	

Radar Analysis

Return To Summary

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





Name:	DAVE COOK
Project Name:	KIAD BUNZZ1 SID ALL TRANSITIONS 20120201
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	2/1/2012 11:53:12 AM
Input File:	KIAD BUNZZ1 RW01L BU...
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	

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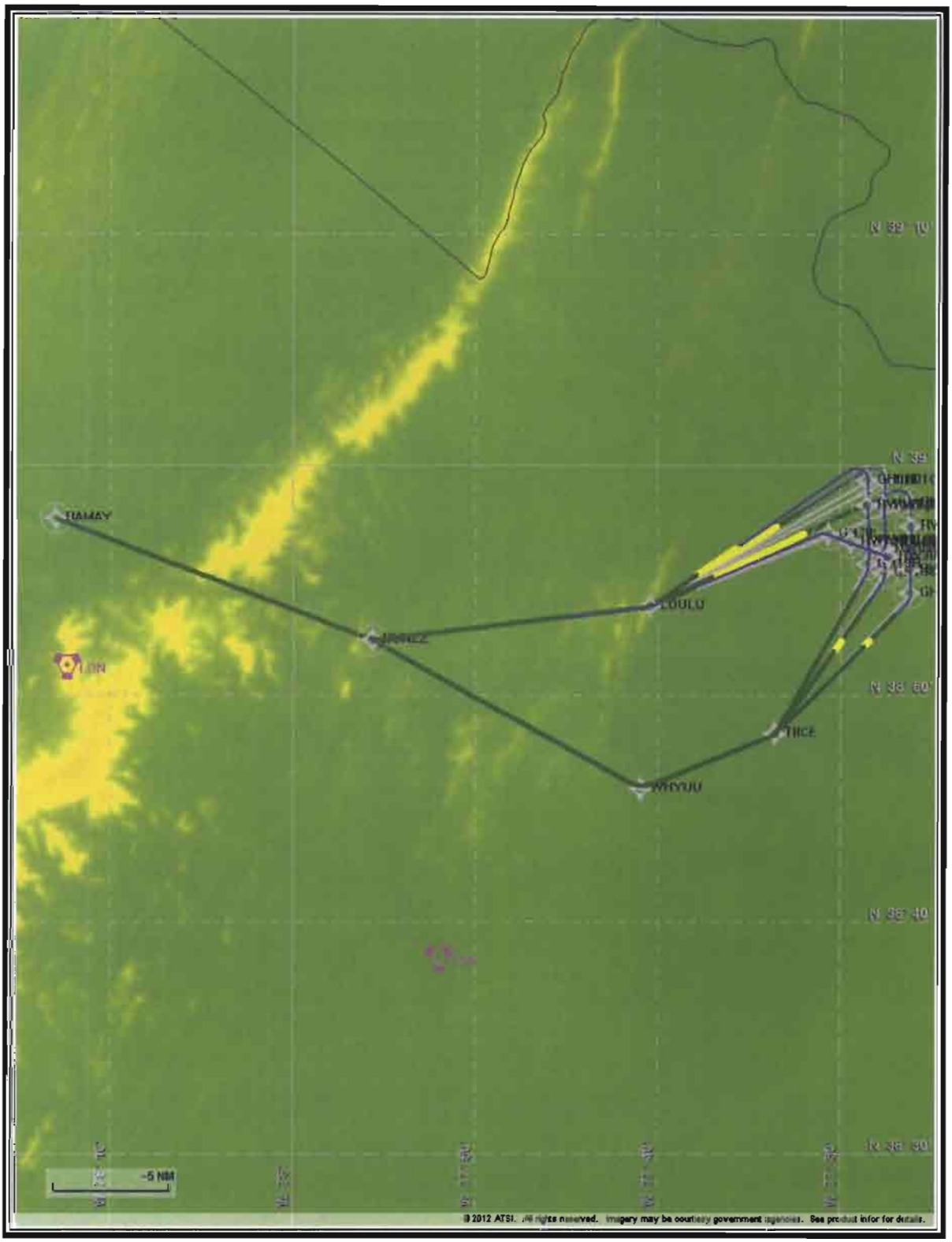
TIMMY
LOULU
MIDYUU
5 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW01L(...	WP	N 38° 56' 41.88" W 77° 28' 29.32"	296.0	VNAV	0.0	Fly Over	TF
RW19R(...	WP	N 38° 58' 14.78" W 77° 28' 27.98"	311.9	VNAV	130.0	Fly Over	VA
GH01L	WP	N 38° 59' 20.01" W 77° 28' 27.05"	820.0	VNAV	145.0	Fly Over	DF
LOULU	WP	N 38° 53' 50.04" W 77° 40' 23.43"	2983.0	VNAV	180.0	Fly By	TF
BUNZZ	WP	N 38° 52' 21.37" W 77° 55' 36.98"	5379.0	VNAV	180.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KIAD
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 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 LOULU could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -5.84 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:

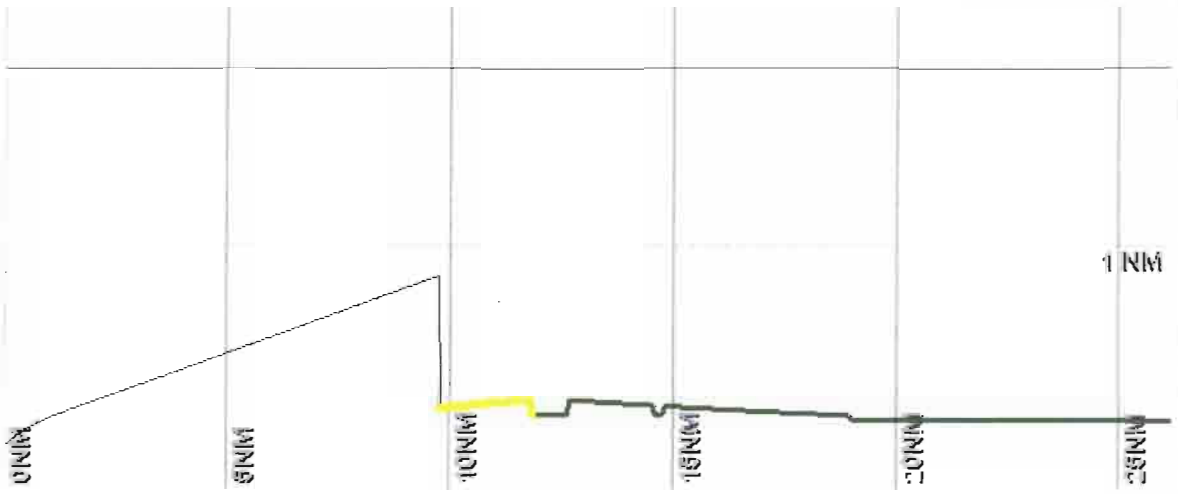
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 2983 Ft.

Total Number of DMEs Used: 5

Maximum DME Error: 0.878 NM.

No Critical DMEs were found.

Available DMEs: EMI, CSN, AML, LDN, ADW, MRB



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	AML	N 38° 56' 4.55" W 77° 28' 0.10"	L	Database	NO	0.878	Enabled	12.4 %	12.0 %
2	CSN	N 38° 38' 28.29" W 77° 51' 55.79"	H	Database	NO	1.325	Enabled	39.5 %	47.3 %
3	LDN	N 38° 51' 15.81" W 78° 12' 20.00"	L	Database	NO	1.016	Enabled	34.5 %	46.9 %
4	ADW	N 38° 48' 25.96" W 76° 51' 58.50"	L	Database	NO	0.878	Enabled	3.8 %	4.0 %
5	MRB	N 39° 23' 8.06" W 77° 50' 54.08"	L	Database	NO	0.878	Enabled	11.2 %	15.5 %

Flight Check DME Selection

Distance [NM]	Selected DMEs				Alternate
0.0					
1.5					
2.6	AML	CSN	LDN	ADW	EMI
13.6	AML	CSN	LDN	ADW	MRB

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

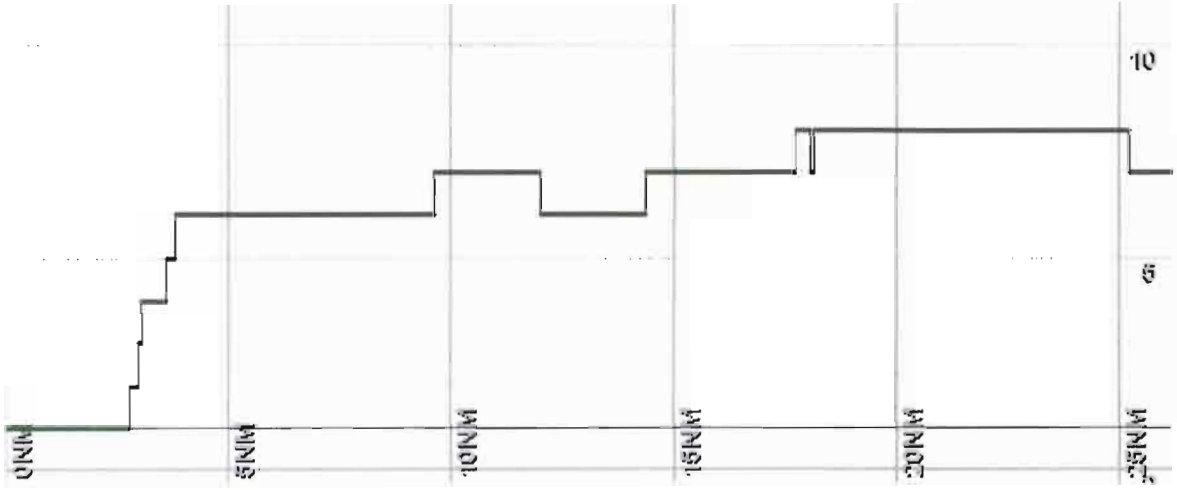
#	Start Location	End Location	Length [NM]
1	N 38° 56' 41.88" W 77° 28' 29.32"	N 38° 56' 24.42" W 77° 35' 41.90"	9.7

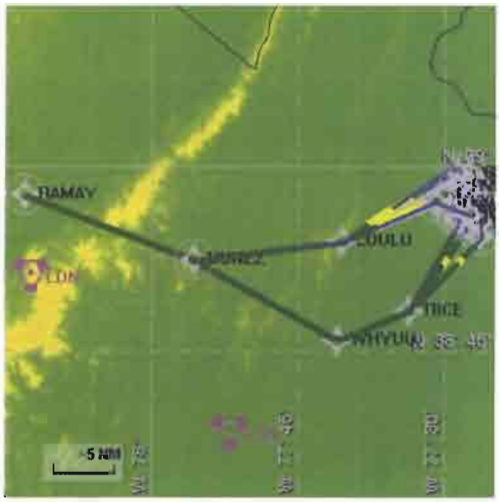
VOR: ADW	Available from N 38° 56' 41.88" W 77° 28' 29.32" to N 38° 56' 24.42" W 77° 35' 41.90"
VOR: AML	Available from N 38° 56' 41.88" W 77° 28' 29.32" to N 38° 56' 24.42" W 77° 35' 41.90"
VOR: BRV	Available from N 38° 56' 41.88" W 77° 28' 29.32" to N 38° 56' 24.42" W 77° 35' 41.90"
VOR: CSN	Available from N 38° 56' 41.88" W 77° 28' 29.32" to N 38° 56' 24.42" W 77° 35' 41.90"
VOR: DCA	Available from N 38° 56' 41.88" W 77° 28' 29.32" to N 38° 56' 24.42" W 77° 35' 41.90"
VOR: FDK	Available from N 38° 56' 41.88" W 77° 28' 29.32" to N 38° 56' 24.42" W 77° 35' 41.90"
VOR: LDN	Available from N 38° 56' 41.88" W 77° 28' 29.32" to N 38° 56' 24.42" W 77° 35' 41.90"
VOR: MRB	Available from N 38° 56' 41.88" W 77° 28' 29.32" to N 38° 56' 24.42" W 77° 35' 41.90"
VOR: OTT	Available from N 38° 56' 41.88" W 77° 28' 29.32" to N 38° 58' 46.89" W 77° 31' 21.46"
VOR: EMI	Available from N 38° 57' 3.43" W 77° 28' 29.01" to N 38° 58' 46.89" W 77° 31' 21.46"
VOR: BAL	Available from N 38° 57' 46.76" W 77° 28' 28.38" to N 38° 59' 52.76" W 77° 29' 16.16"

Radar Analysis

Return To Summary

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





Name:	DAVE COOK
Project Name:	KIAD BUNZZ1 SID ALL TRANSITIONS 20120201
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	2/1/2012 11:54:27 AM
Input File:	KIAD BUNZZ1RW01R BUN...
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	

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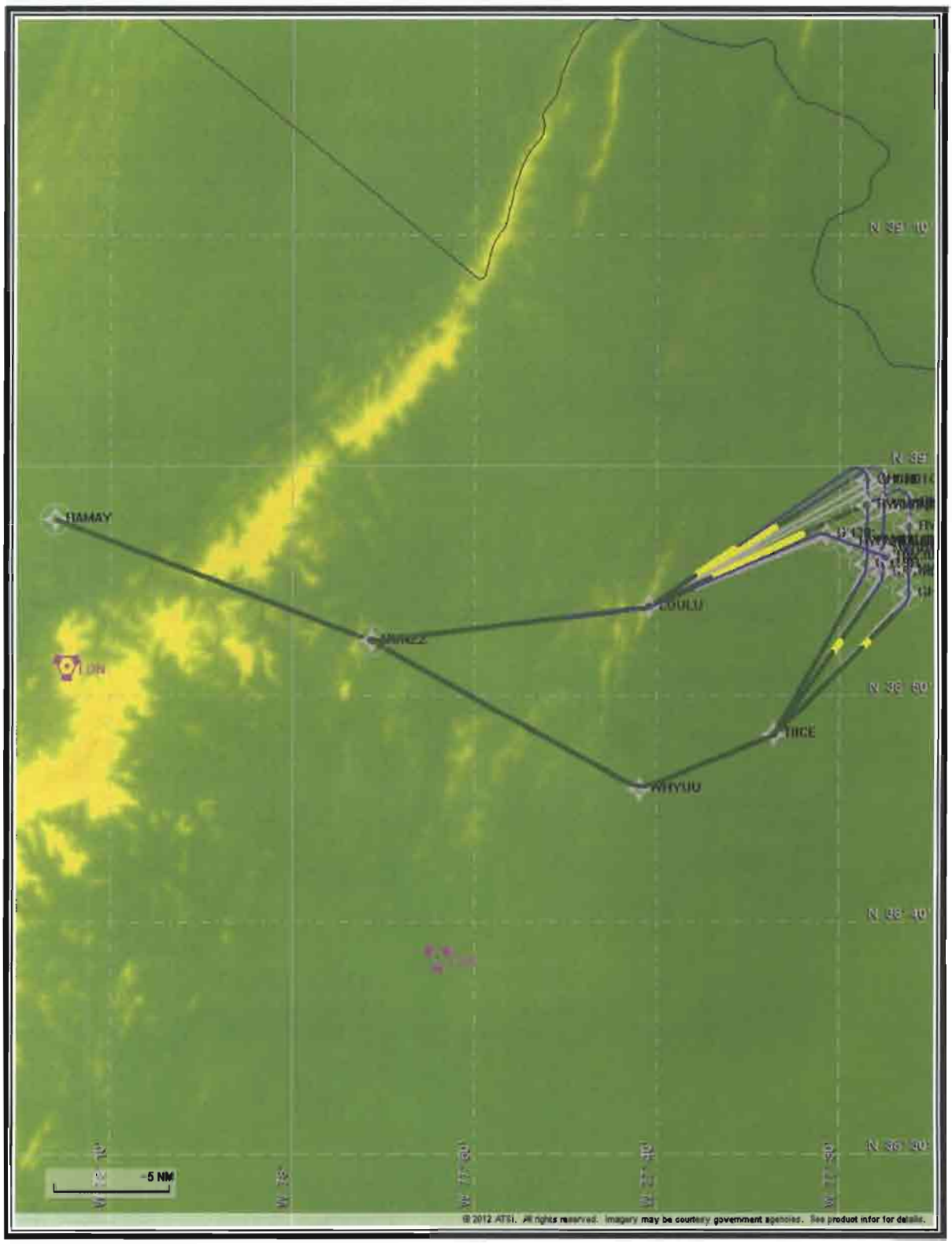
HMMAY
BRRZZ
LOULU
LDN
WHYUU
IRCE
N 39° 10'
N 38° 50'
N 38° 40'
N 38° 30'
5 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW01R(...	WP	N 38° 55' 25.53" W 77° 26' 11.22"	311.7	VNAV	0.0	Fly Over	TF
RW19L(...	WP	N 38° 57' 19.18" W 77° 26' 9.53"	328.2	VNAV	130.0	Fly Over	VA
GH01R	WP	N 38° 58' 22.46" W 77° 26' 8.58"	820.0	VNAV	145.0	Fly Over	DF
LOULU	WP	N 38° 53' 50.04" W 77° 40' 23.43"	3221.4	VNAV	180.0	Fly By	TF
BUNZZ	WP	N 38° 52' 21.37" W 77° 55' 36.98"	5617.4	VNAV	180.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KIAD
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 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 -59.04 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:

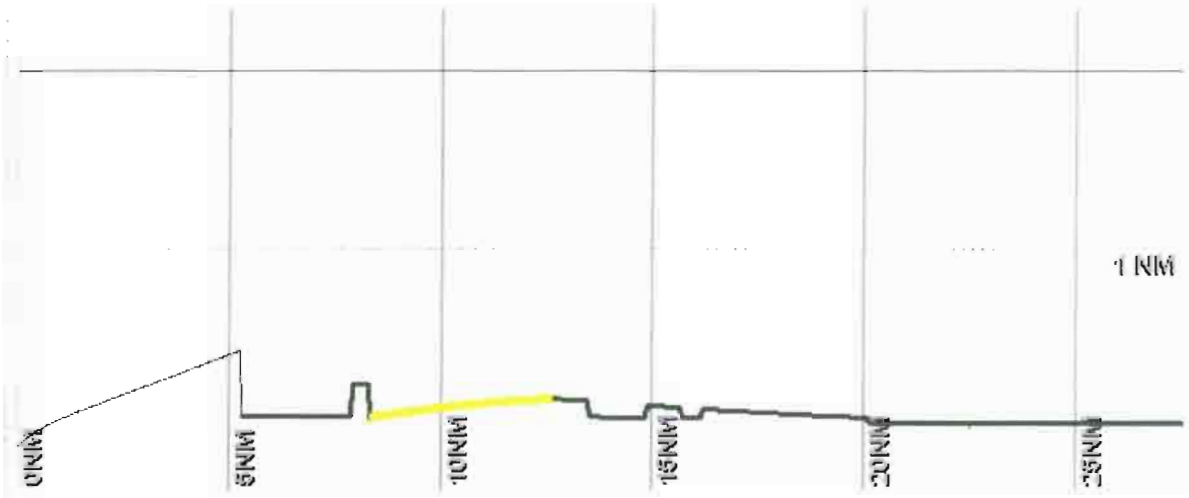
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 3221 Ft.

Total Number of DMEs Used: 6

Maximum DME Error: 0.581 NM.

No Critical DMEs were found.

Available DMEs: CSN, DCA, LDN, AML, ADW, MRB



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CSN	N 38° 38' 28.29" W 77° 51' 55.79"	H	Database	NO	1.381	Enabled	61.1 %	65.4 %
2	DCA	N 38° 51' 34.03" W 77° 2' 11.17"	L	Database	NO	0.605	Enabled	11.4 %	9.4 %
3	LDN	N 38° 51' 15.81" W 78° 12' 20.00"	L	Database	NO	0.668	Enabled	34.2 %	45.1 %
4	AML	N 38° 56' 4.55" W 77° 28' 0.10"	L	Database	NO	0.581	Enabled	21.6 %	19.6 %
5	ADW	N 38° 48' 25.96" W 76° 51' 58.50"	L	Database	NO	0.581	Enabled	5.3 %	6.8 %
6	MRB	N 39° 23' 8.06" W 77° 50' 54.08"	L	Database	NO	0.581	Enabled	11.3 %	15.5 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.9						
2.9	CSN	DCA	LDN	AML	ADW	
15.1	CSN	MRB	LDN	AML	ADW	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

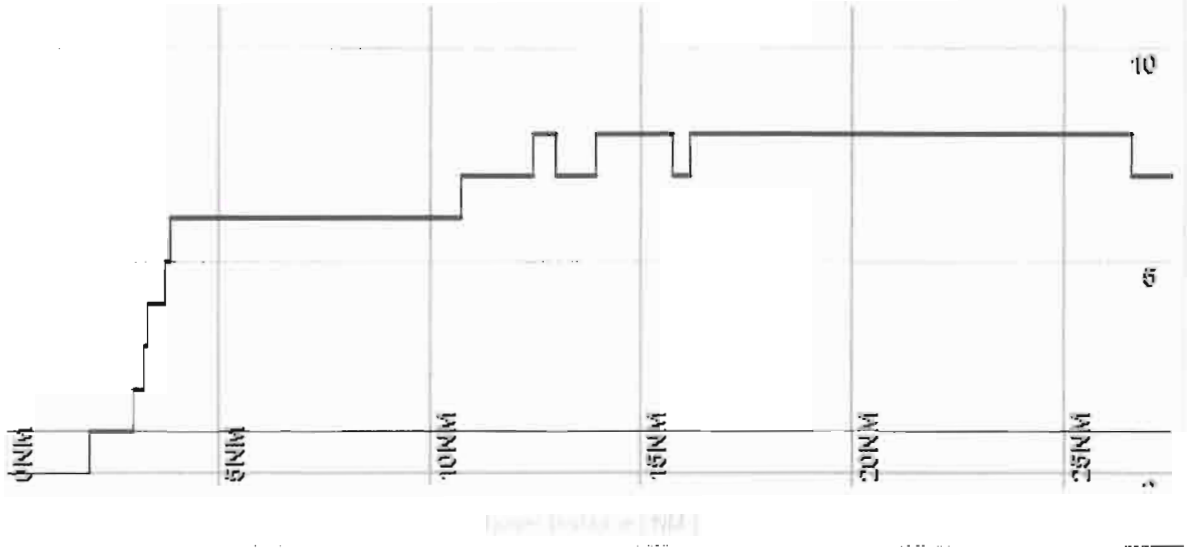
#	Start Location	End Location	Length [NM]
1	N 38° 55' 25.53" W 77° 26' 11.22"	N 38° 58' 21.29" W 77° 28' 29.57"	5.2

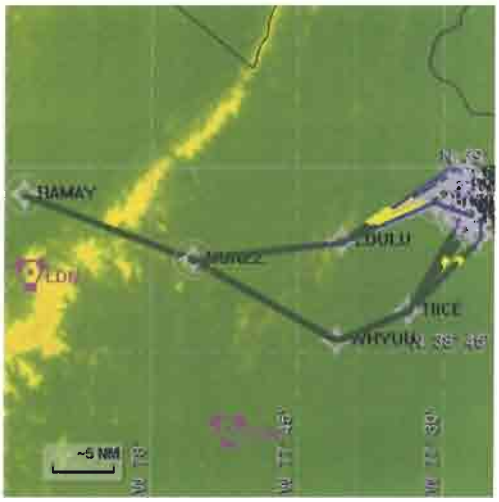
VOR: ADW	Available from N 38° 55' 25.53" W 77° 26' 11.22" to N 38° 58' 21.29" W 77° 28' 29.57"
VOR: AML	Available from N 38° 55' 25.53" W 77° 26' 11.22" to N 38° 58' 21.29" W 77° 28' 29.57"
VOR: BAL	Available from N 38° 55' 25.53" W 77° 26' 11.22" to N 38° 58' 21.29" W 77° 28' 29.57"
VOR: BRV	Available from N 38° 55' 25.53" W 77° 26' 11.22" to N 38° 58' 21.29" W 77° 28' 29.57"
VOR: CSN	Available from N 38° 55' 25.53" W 77° 26' 11.22" to N 38° 58' 21.29" W 77° 28' 29.57"
VOR: DCA	Available from N 38° 55' 25.53" W 77° 26' 11.22" to N 38° 58' 21.29" W 77° 28' 29.57"
VOR: FDK	Available from N 38° 55' 25.53" W 77° 26' 11.22" to N 38° 58' 21.29" W 77° 28' 29.57"
VOR: LDN	Available from N 38° 55' 25.53" W 77° 26' 11.22" to N 38° 58' 21.29" W 77° 28' 29.57"
VOR: MRB	Available from N 38° 55' 25.53" W 77° 26' 11.22" to N 38° 58' 21.29" W 77° 28' 29.57"
VOR: OTT	Available from N 38° 55' 25.53" W 77° 26' 11.22" to N 38° 58' 21.29" W 77° 28' 29.57"
VOR: EMI	Available from N 38° 55' 50.63" W 77° 26' 10.85" to N 38° 58' 21.29" W 77° 28' 29.57"

Radar Analysis

Return To Summary

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





Name:	DAVE COOK
Project Name:	KIAD BUNZZ1 SID ALL TRANSITIONS 20120201
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	2/1/2012 11:55:18 AM
Input File:	KIAD BUNZZ1 RW19C BU...
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	

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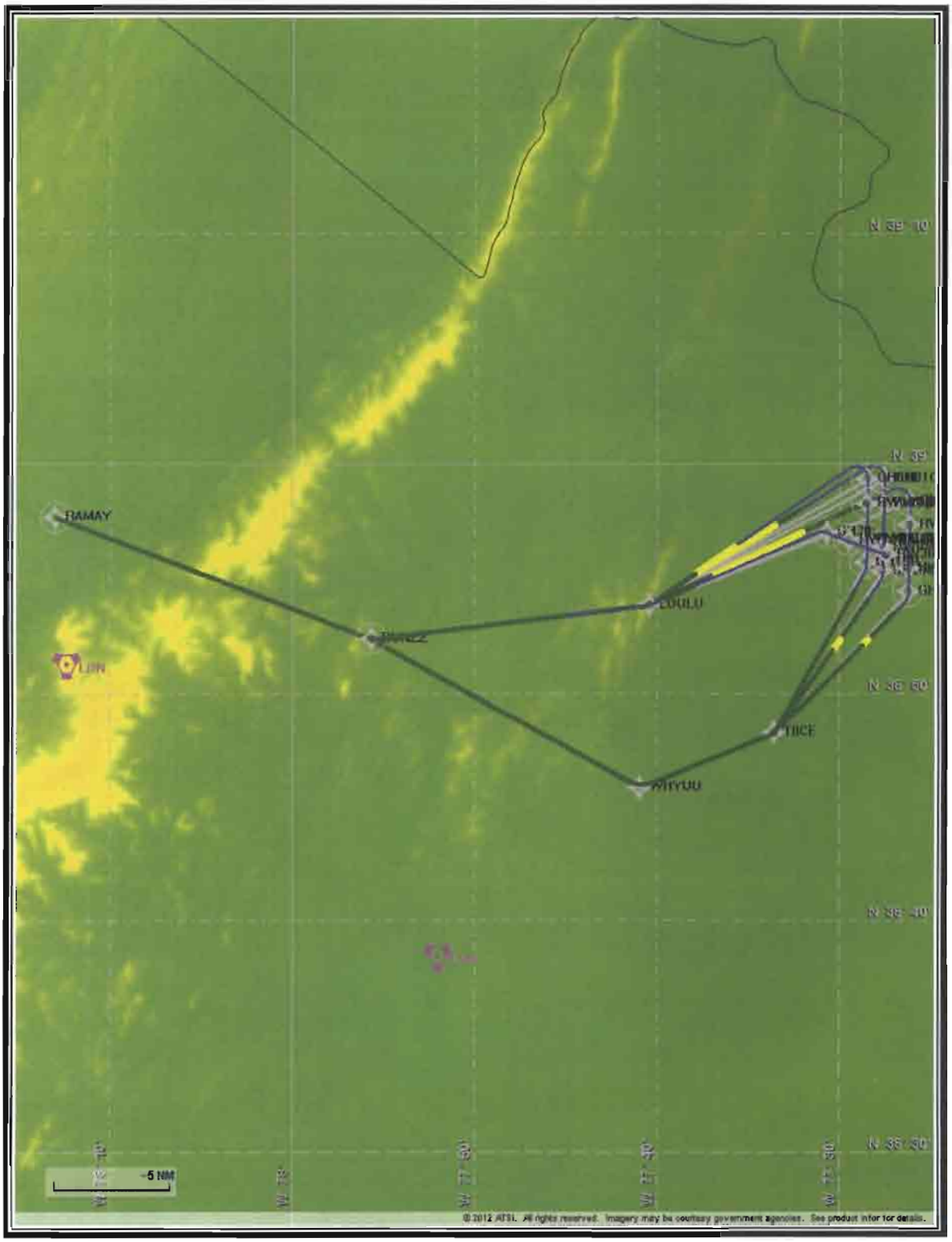
RAMAY
LDN
5 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW19C(...	WP	N 38° 58' 14.30" W 77° 27' 33.57"	268.7	VNAV	0.0	Fly Over	TF
RW01C(...	WP	N 38° 56' 20.64" W 77° 27' 35.21"	321.3	VNAV	130.0	Fly Over	VA
GH19C	WP	N 38° 55' 16.54" W 77° 27' 36.14"	820.0	VNAV	145.0	Fly Over	DF
TIICE	WP	N 38° 48' 13.65" W 77° 33' 34.49"	2509.3	VNAV	180.0	Fly By	TF
WHYUU	WP	N 38° 45' 49.18" W 77° 40' 54.02"	3751.8	VNAV	180.0	Fly By	TF
BUNZZ	WP	N 38° 52' 21.37" W 77° 55' 36.98"	6397.1	VNAV	180.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KIAD
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 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 -32.13 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:

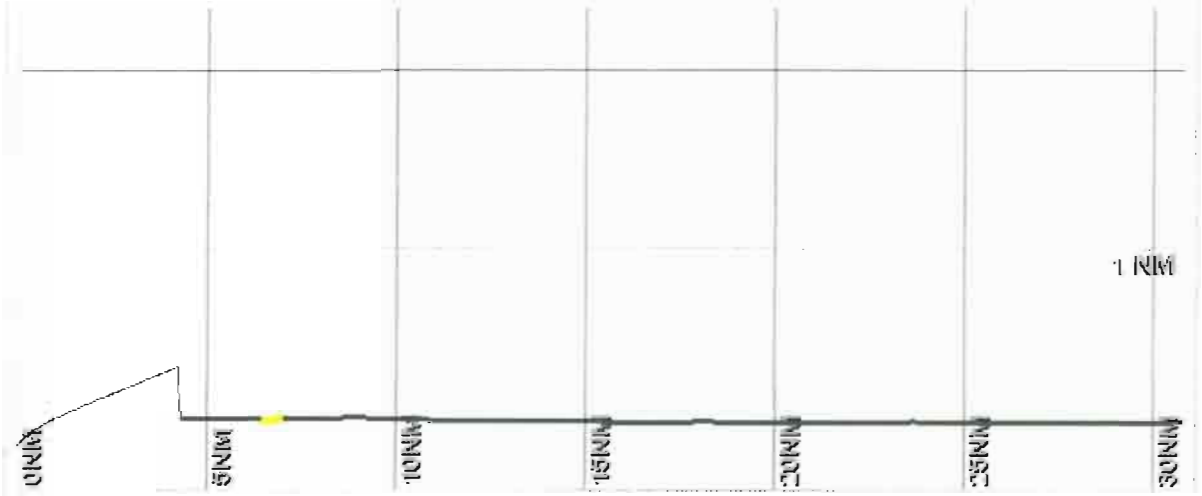
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 2475 Ft.

Total Number of DMEs Used: 7

Maximum DME Error: 0.514 NM.

No Critical DMEs were found.

Available DMEs: ADW, BRV, CSN, AML, LDN, MRB, DCA



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ADW	N 38° 48' 25.96" W 76° 51' 58.50"	L	Database	NO	0.567	Enabled	17.4 %	14.0 %
2	BRV	N 38° 20' 10.62" W 77° 21' 10.45"	L	Database	NO	0.636	Enabled	57.0 %	59.5 %
3	AML	N 38° 56' 4.55" W 77° 28' 0.10"	L	Database	NO	0.514	Enabled	17.4 %	21.1 %
4	CSN	N 38° 38' 28.29" W 77° 51' 55.79"	H	Database	NO	0.514	Enabled	39.3 %	42.9 %
5	LDN	N 38° 51' 15.81" W 78° 12' 20.00"	L	Database	NO	0.514	Enabled	17.4 %	23.3 %
6	DCA	N 38° 51' 34.03" W 77° 2' 11.17"	L	Database	NO	0.514	Enabled	0.0 %	0.0 %
7	MRB	N 39° 23' 8.06" W 77° 50' 54.08"	L	Database	NO	0.514	Enabled	8.6 %	11.6 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.9						
2.9	ADW	BRV	CSN	AML		
11.2	LDN	BRV	CSN	AML		
16.8	LDN	BRV	CSN	AML	MRB	DCA

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

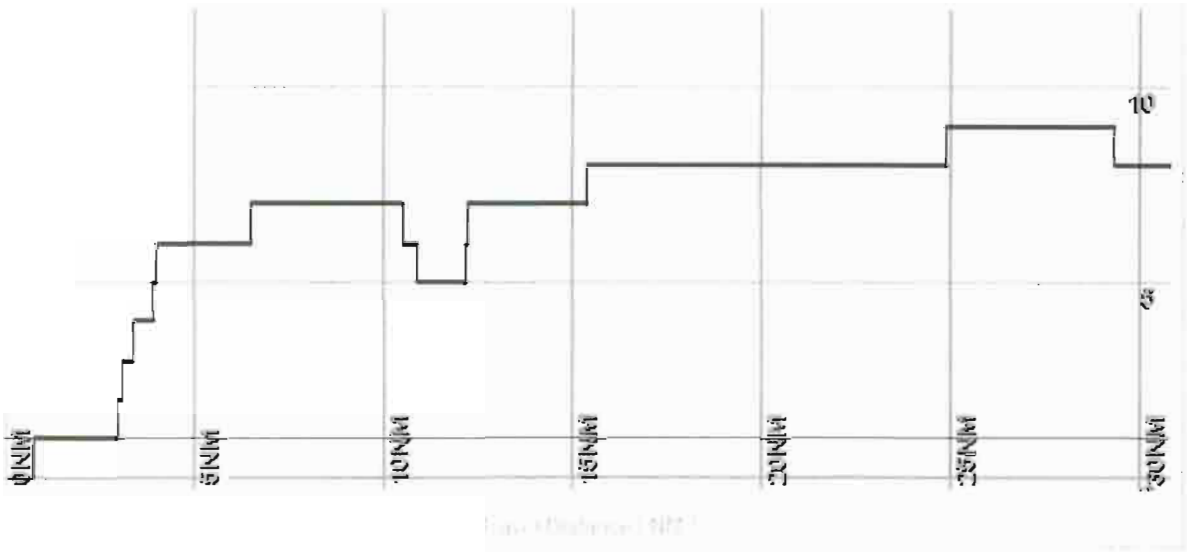
#	Start Location	End Location	Length [NM]
1	N 38° 58' 14.30" W 77° 27' 33.57"	N 38° 54' 9.52" W 77° 28' 22.28"	4.2

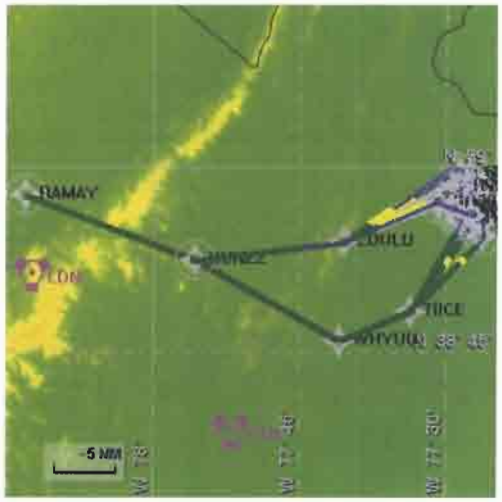
VOR: ADW	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 54' 9.52" W 77° 28' 22.28"
VOR: AML	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 54' 9.52" W 77° 28' 22.28"
VOR: BAL	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 55' 53.30" W 77° 27' 35.60"
VOR: BRV	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 54' 9.52" W 77° 28' 22.28"
VOR: CSN	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 54' 9.52" W 77° 28' 22.28"
VOR: DCA	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 54' 9.52" W 77° 28' 22.28"
VOR: EMI	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 56' 33.33" W 77° 27' 35.03"
VOR: FDK	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 54' 9.52" W 77° 28' 22.28"
VOR: LDN	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 54' 9.52" W 77° 28' 22.28"
VOR: MRB	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 54' 9.52" W 77° 28' 22.28"
VOR: OTT	Available from N 38° 58' 14.30" W 77° 27' 33.57" to N 38° 54' 9.52" W 77° 28' 22.28"

Radar Analysis

Return To Summary

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





Name:	DAVE COOK
Project Name:	KIAD BUNZZ1 SID ALL TRANSITIONS 20120201
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	2/1/2012 11:56:27 AM
Input File:	KIAD BUNZZ1RW19L BUN...
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	?	

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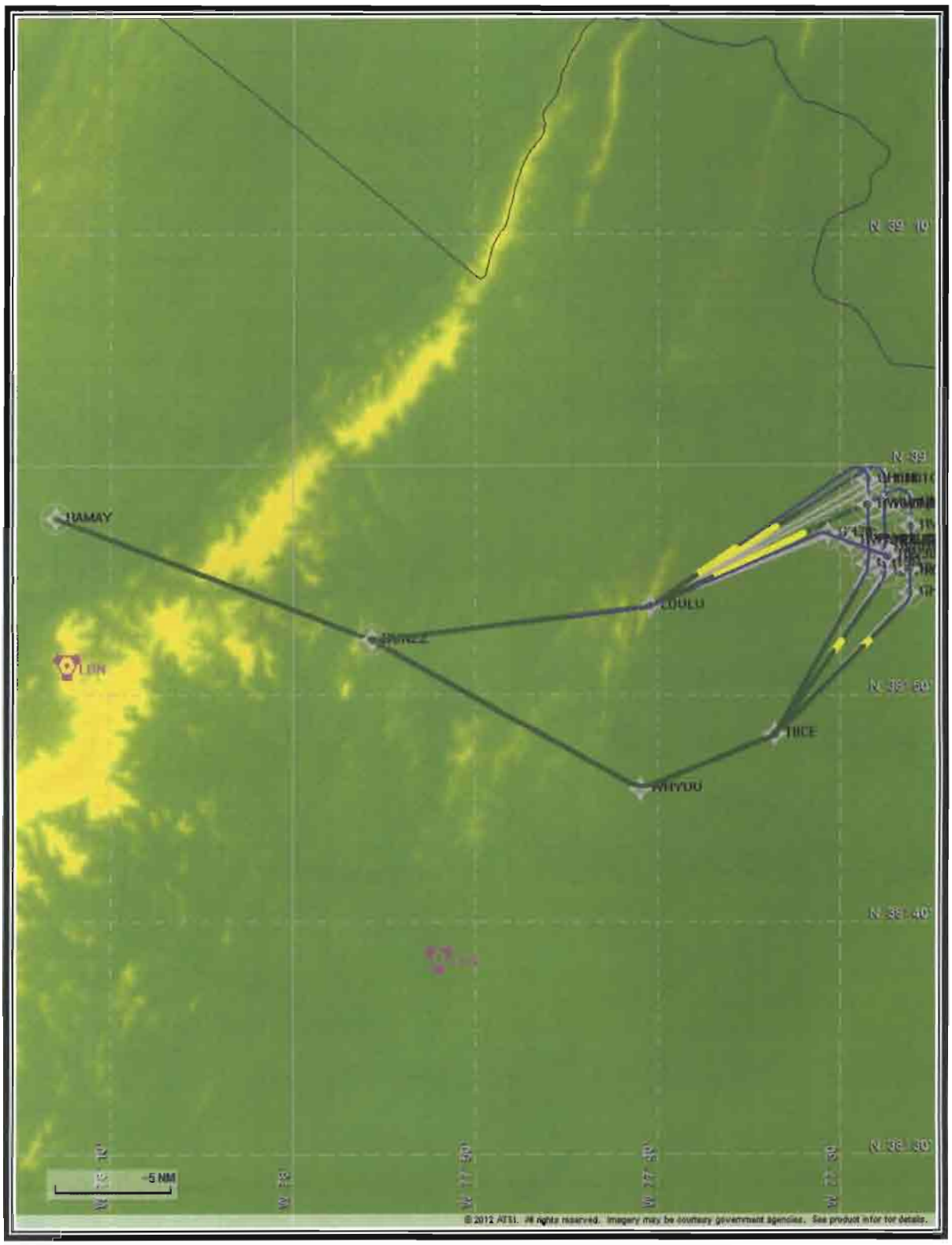
N 39° 10'
N 39°
HAMAY
LOULU
LDN
N 38° 50'
THCE
N 38° 40'
5 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW19L(...	WP	N 38° 57' 19.19" W 77° 26' 9.53"	293.2	VNAV	0.0	Fly Over	TF
RW01R(...	WP	N 38° 55' 25.53" W 77° 26' 11.22"	346.7	VNAV	130.0	Fly Over	VA
GH19L	WP	N 38° 54' 24.48" W 77° 26' 12.14"	820.0	VNAV	145.0	Fly Over	DF
TIICE	WP	N 38° 48' 13.65" W 77° 33' 34.49"	2508.7	VNAV	180.0	Fly By	TF
WHYUU	WP	N 38° 45' 49.18" W 77° 40' 54.02"	3751.2	VNAV	180.0	Fly By	TF
BUNZZ	WP	N 38° 52' 21.37" W 77° 55' 36.98"	6396.4	VNAV	180.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KIAD
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 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 -44.27 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:

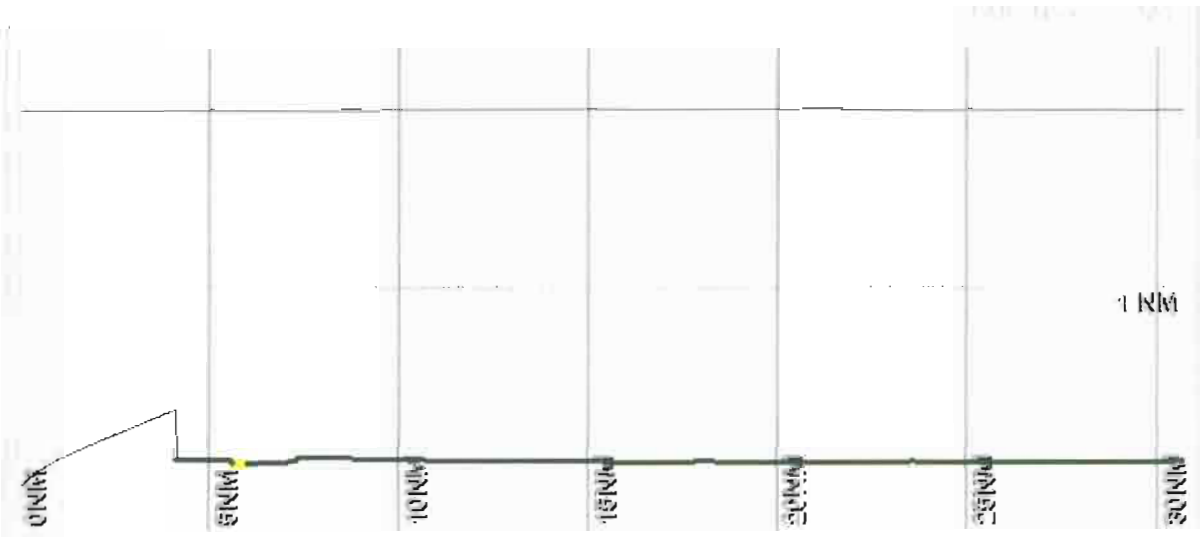
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 2335 Ft.

Total Number of DMEs Used: 7

Maximum DME Error: 0.501 NM.

No Critical DMEs were found.

Available DMEs: ADW, BRV, CSN, AML, LDN, MRB, DCA



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ADW	N 38° 48' 25.96" W 76° 51' 58.50"	L	Database	NO	0.567	Enabled	13.3 %	10.6 %
2	BRV	N 38° 20' 10.62" W 77° 21' 10.45"	L	Database	NO	0.698	Enabled	54.9 %	57.8 %
3	AML	N 38° 56' 4.55" W 77° 28' 0.10"	L	Database	NO	0.501	Enabled	20.3 %	23.4 %
4	CSN	N 38° 38' 28.29" W 77° 51' 55.79"	H	Database	NO	0.561	Enabled	44.2 %	46.9 %
5	LDN	N 38° 51' 15.81" W 78° 12' 20.00"	L	Database	NO	0.501	Enabled	17.5 %	23.3 %
6	DCA	N 38° 51' 34.03" W 77° 2' 11.17"	L	Database	NO	0.501	Enabled	0.0 %	0.0 %
7	MRB	N 39° 23' 8.06" W 77° 50' 54.08"	L	Database	NO	0.501	Enabled	8.7 %	11.6 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.9						
2.9	ADW	BRV	CSN	AML		
11.2	LDN	BRV	CSN	AML		
16.8	LDN	BRV	CSN	AML	MRB	DCA

DME/DME (Continued.)

Return To Summary

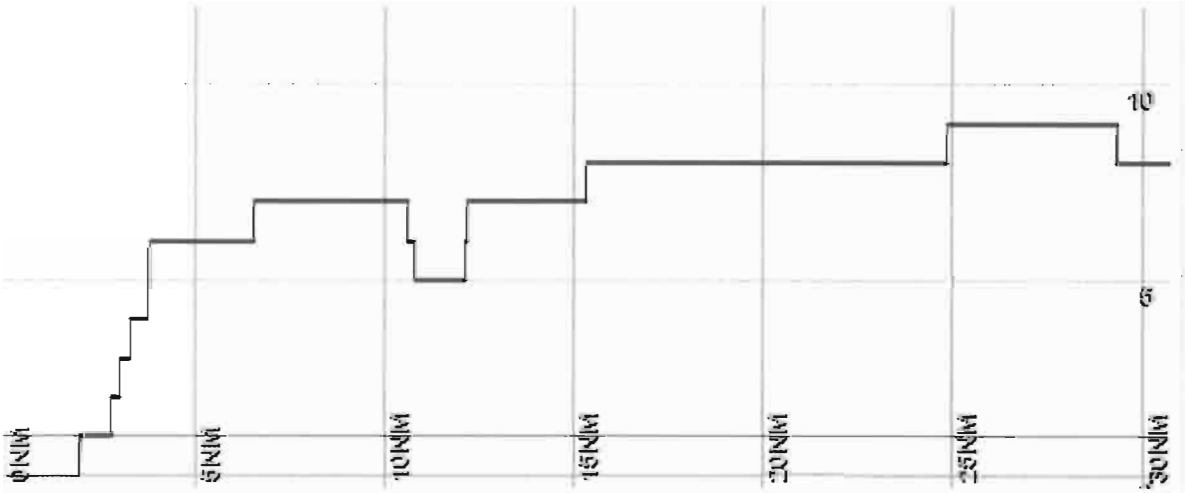
Inertial Drift Segments

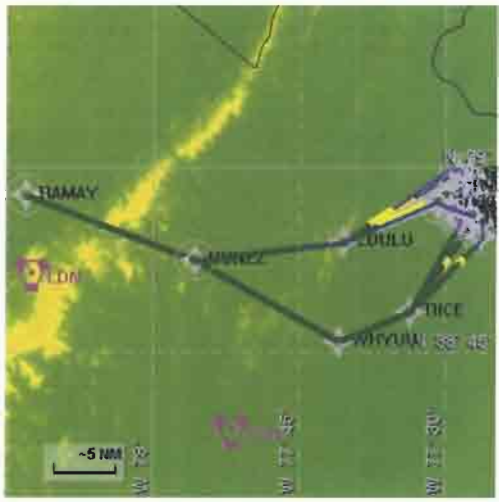
#	Start Location	End Location	Length [NM]
1	N 38° 57' 19.19" W 77° 26' 9.53"	N 38° 53' 29.74" W 77° 26' 59.96"	4.0
	VOR: ADW	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 53' 29.74" W 77° 26' 59.96"	
	VOR: AML	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 53' 29.74" W 77° 26' 59.96"	
	VOR: BAL	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 53' 54.11" W 77° 26' 29.57"	
	VOR: BRV	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 53' 29.74" W 77° 26' 59.96"	
	VOR: CSN	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 53' 29.74" W 77° 26' 59.96"	
	VOR: DCA	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 53' 29.74" W 77° 26' 59.96"	
	VOR: EMI	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 55' 52.12" W 77° 26' 10.83"	
	VOR: FDK	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 53' 29.74" W 77° 26' 59.96"	
	VOR: LDN	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 53' 29.74" W 77° 26' 59.96"	
	VOR: MRB	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 53' 29.74" W 77° 26' 59.96"	
	VOR: OTT	Available from N 38° 57' 19.19" W 77° 26' 9.53" to N 38° 53' 29.74" W 77° 26' 59.96"	

Radar Analysis

Return To Summary

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





Name:	DAVE COOK
Project Name:	KIAD BUNZZ1 SID ALL TRANSITIONS 20120201
Software:	RNAV-Pro™
Version:	2.35I
Date/Time:	2/1/2012 11:57:17 AM
Input File:	KIAD BUNZZ1RW19R BUN...
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	

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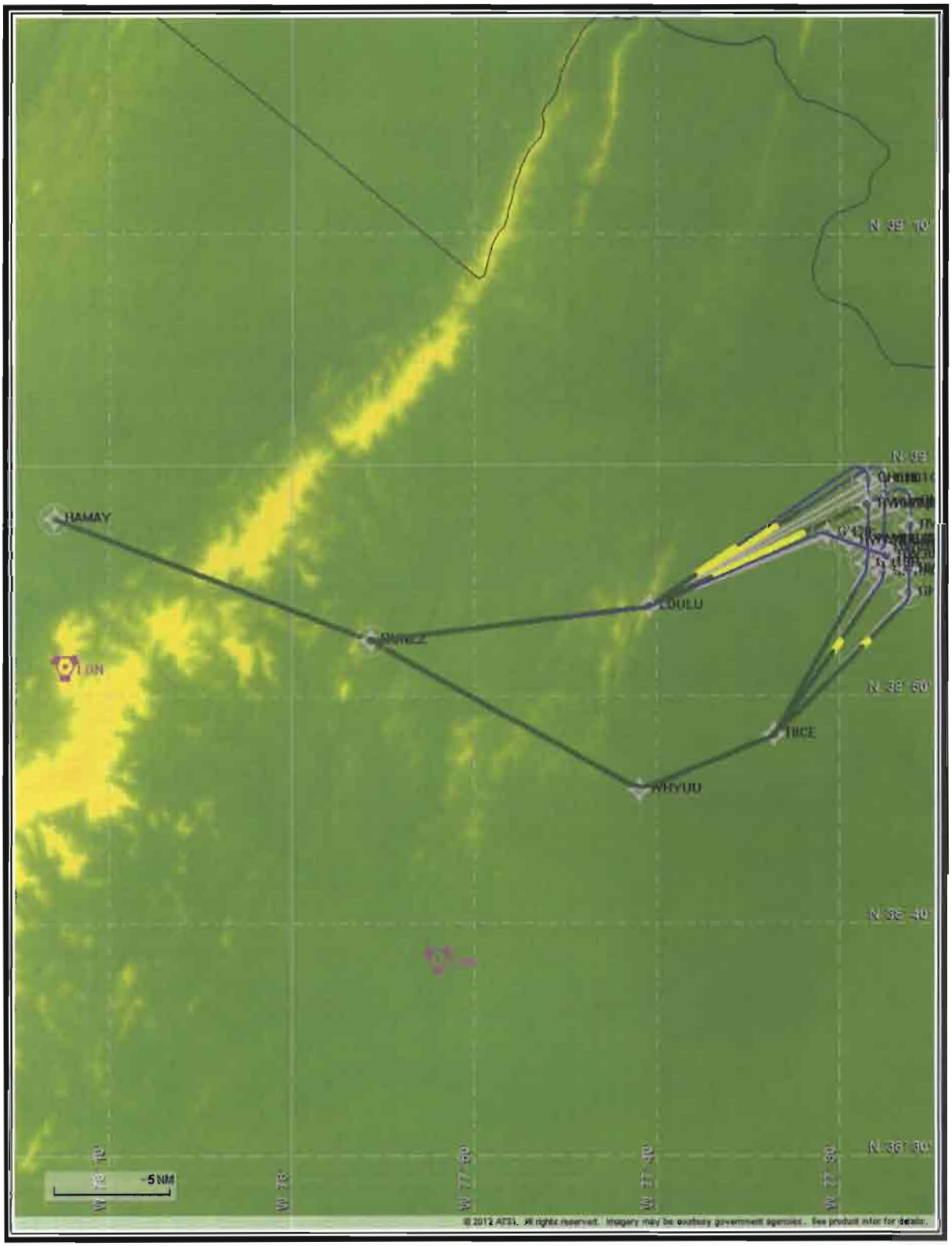
N 39° 10'
HAMAY
LOULU
BUNZZ
IDN
N 38° 50'
IRCE
MRVUU
N 38° 40'
N 38° 30'
W 77° 50'
W 77° 40'
W 77° 30'
5 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW19R(...	WP	N 38° 58' 14.78" W 77° 28' 27.98"	276.9	VNAV	0.0	Fly Over	TF
RW01L(...	WP	N 38° 56' 41.88" W 77° 28' 29.32"	331.0	VNAV	130.0	Fly Over	VA
GH19R	WP	N 38° 55' 38.94" W 77° 28' 30.22"	820.0	VNAV	145.0	Fly Over	DF
TIICE	WP	N 38° 48' 13.65" W 77° 33' 34.49"	2501.2	VNAV	180.0	Fly By	TF
WHYUU	WP	N 38° 45' 49.18" W 77° 40' 54.02"	3743.7	VNAV	180.0	Fly By	TF
BUNZZ	WP	N 38° 52' 21.37" W 77° 55' 36.98"	6388.9	VNAV	180.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KIAD
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 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 -15.10 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:

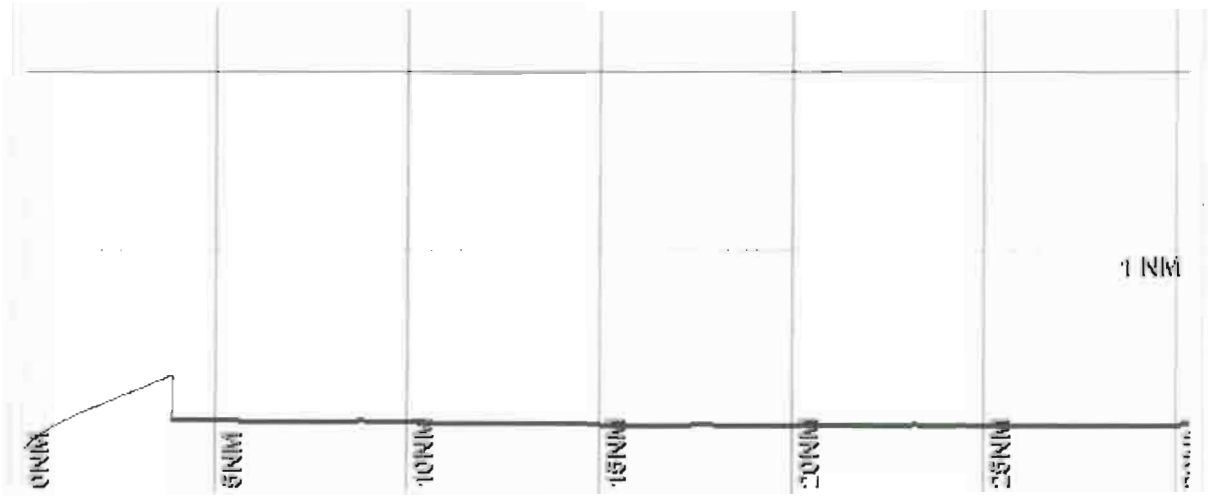
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 2444 Ft.

Total Number of DMEs Used: 7

Maximum DME Error: 0.487 NM.

No Critical DMEs were found.

Available DMEs: ADW, BRV, CSN, AML, LDN, MRB, DCA



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ADW	N 38° 48' 25.96" W 76° 51' 58.50"	L	Database	NO	0.541	Enabled	19.9 %	15.9 %
2	BRV	N 38° 20' 10.62" W 77° 21' 10.45"	L	Database	NO	0.610	Enabled	62.2 %	63.7 %
3	CSN	N 38° 38' 28.29" W 77° 51' 55.79"	H	Database	NO	0.487	Enabled	37.8 %	41.7 %
4	AML	N 38° 56' 4.55" W 77° 28' 0.10"	L	Database	NO	0.487	Enabled	13.5 %	18.0 %
5	LDN	N 38° 51' 15.81" W 78° 12' 20.00"	L	Database	NO	0.487	Enabled	17.7 %	23.6 %
6	DCA	N 38° 51' 34.03" W 77° 2' 11.17"	L	Database	NO	0.487	Enabled	0.0 %	0.0 %
7	MRB	N 39° 23' 8.06" W 77° 50' 54.08"	L	Database	NO	0.487	Enabled	8.8 %	11.7 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.6	ADW	BRV	CSN	AML		
10.7	LDN	BRV	CSN	AML		
16.4	LDN	BRV	CSN	AML	MRB	DCA

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

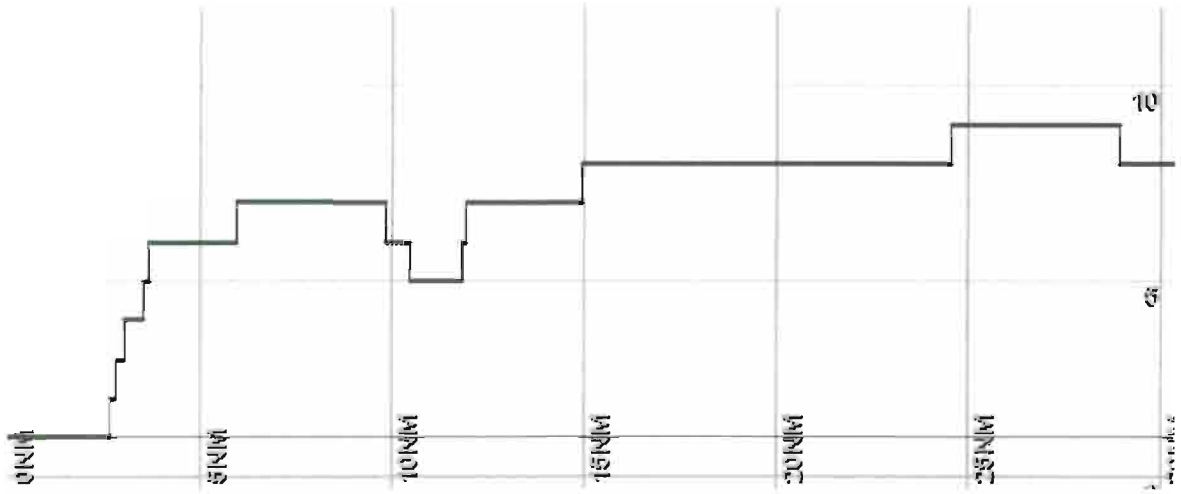
#	Start Location	End Location	Length [NM]
1	N 38° 58' 14.78" W 77° 28' 27.98"	N 38° 54' 30.88" W 77° 29' 8.86"	3.8

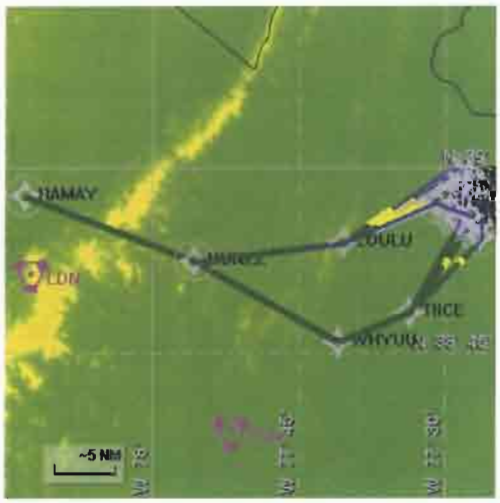
VOR: ADW	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 54' 30.88" W 77° 29' 8.86"
VOR: AML	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 54' 30.88" W 77° 29' 8.86"
VOR: BAL	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 57' 47.22" W 77° 28' 28.38"
VOR: BRV	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 54' 30.88" W 77° 29' 8.86"
VOR: CSN	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 54' 30.88" W 77° 29' 8.86"
VOR: DCA	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 54' 30.88" W 77° 29' 8.86"
VOR: EMI	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 57' 2.82" W 77° 28' 29.02"
VOR: FDK	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 54' 30.88" W 77° 29' 8.86"
VOR: LDN	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 54' 30.88" W 77° 29' 8.86"
VOR: MRB	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 54' 30.88" W 77° 29' 8.86"
VOR: OTT	Available from N 38° 58' 14.78" W 77° 28' 27.98" to N 38° 54' 30.88" W 77° 29' 8.86"

Radar Analysis

Return To Summary

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





Name:	DAVE COOK
Project Name:	KIAD BUNZZ1 SID ALL TRANSITIONS 20120201
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	2/1/2012 11:58:34 AM
Input File:	KIAD BUNZZ1 RW30 BUN...
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	?	

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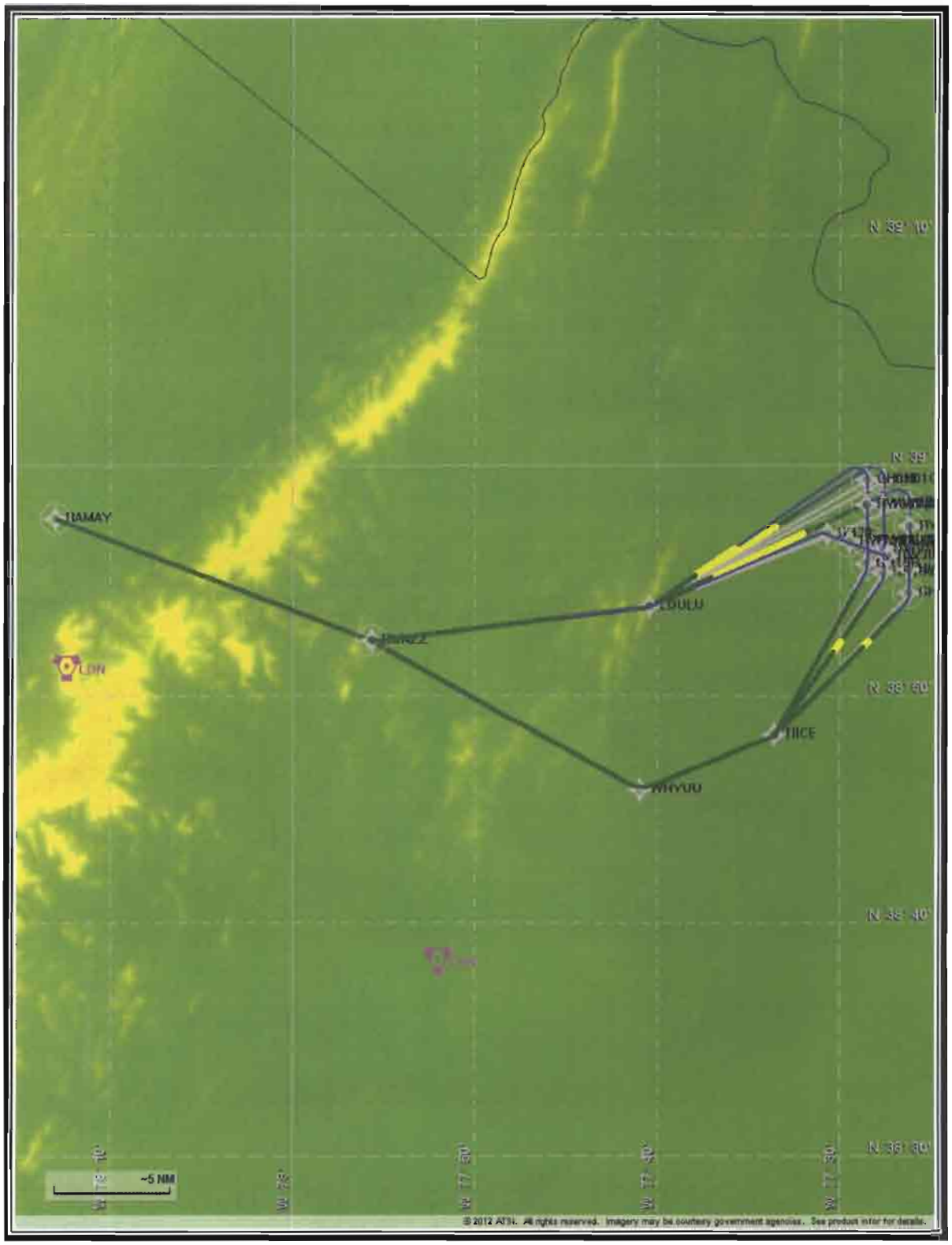
N 39° 10'
N 39°
TAMAY
LDULU
LDN
N 38° 50'
TICE
N 38° 40'
N 38° 30'
~5 NM
W 77° 30'
W 77° 20'
W 77° 10'
W 77° 00'
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW30(A...	WP	N 38° 56' 1.00" W 77° 27' 21.23"	287.8	VNAV	0.0	Fly Over	TF
RW12(D...	WP	N 38° 56' 37.58" W 77° 29' 25.60"	344.8	VNAV	130.0	Fly Over	VA
GH30:	WP	N 38° 56' 59.17" W 77° 30' 39.05"	820.0	VNAV	145.0	Fly Over	DF
LOULU	WP	N 38° 53' 50.04" W 77° 40' 23.43"	2465.5	VNAV	180.0	Fly By	TF
BUNZZ	WP	N 38° 52' 21.37" W 77° 55' 36.98"	4861.5	VNAV	180.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KIAD
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 820.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 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 -20.60 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:

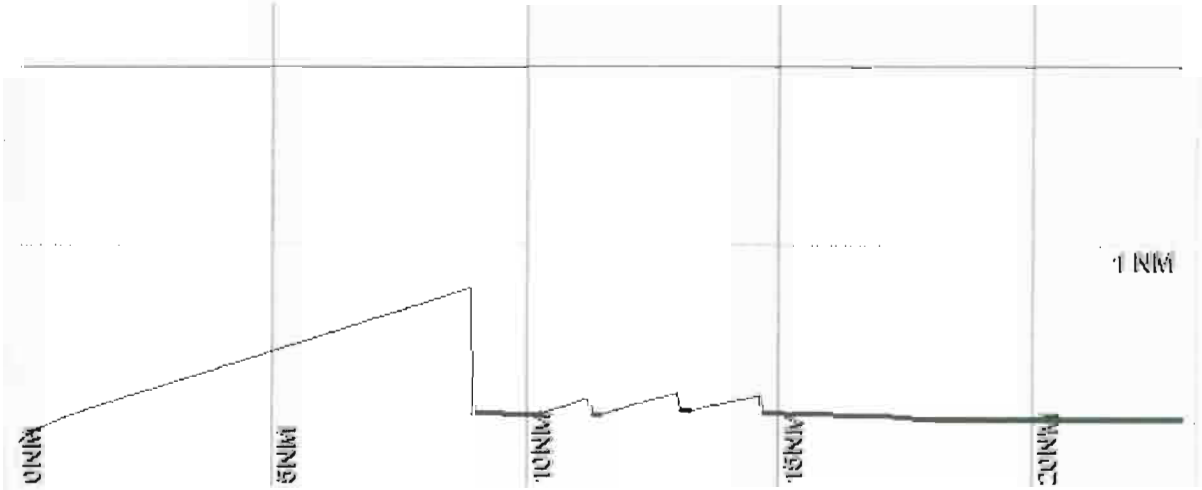
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 2466 Ft.

Total Number of DMEs Used: 5

Maximum DME Error: 0.827 NM.

No Critical DMEs were found.

Available DMEs: AML, CSN, ADW, LDN, MRB



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ADW	N 38° 48' 25.96" W 76° 51' 58.50"	L	Database	NO	1.087	Enabled	7.5 %	6.5 %
2	CSN	N 38° 38' 28.29" W 77° 51' 55.79"	H	Database	NO	1.276	Enabled	26.8 %	34.1 %
3	LDN	N 38° 51' 15.81" W 78° 12' 20.00"	L	Database	NO	0.827	Enabled	22.7 %	32.7 %
4	MRB	N 39° 23' 8.06" W 77° 50' 54.08"	L	Database	NO	0.827	Enabled	6.7 %	9.7 %
5	AML	N 38° 56' 4.55" W 77° 28' 0.10"	L	Database	NO	0.827	Enabled	3.2 %	4.6 %

Flight Check DME Selection

Distance [NM]	Selected DMEs				Alternate
0.0					
1.7					
2.7	AML	CSN	ADW		
10.8	AML	CSN	ADW	LDN	MRB

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 56' 1.00" W 77° 27' 21.23"	N 38° 54' 40.70" W 77° 37' 57.27"	8.9

VOR: ADW	Available from N 38° 56' 1.00" W 77° 27' 21.23" to N 38° 54' 40.70" W 77° 37' 57.27"
VOR: AML	Available from N 38° 56' 1.00" W 77° 27' 21.23" to N 38° 54' 40.70" W 77° 37' 57.27"
VOR: BAL	Available from N 38° 56' 1.00" W 77° 27' 21.23" to N 38° 56' 7.02" W 77° 27' 41.69"
VOR: BRV	Available from N 38° 56' 1.00" W 77° 27' 21.23" to N 38° 54' 40.70" W 77° 37' 57.27"
VOR: CSN	Available from N 38° 56' 1.00" W 77° 27' 21.23" to N 38° 54' 40.70" W 77° 37' 57.27"
VOR: DCA	Available from N 38° 56' 1.00" W 77° 27' 21.23" to N 38° 54' 40.70" W 77° 37' 57.27"
VOR: FDK	Available from N 38° 56' 1.00" W 77° 27' 21.23" to N 38° 54' 40.70" W 77° 37' 57.27"
VOR: LDN	Available from N 38° 56' 1.00" W 77° 27' 21.23" to N 38° 54' 40.70" W 77° 37' 57.27"
VOR: MRB	Available from N 38° 56' 1.00" W 77° 27' 21.23" to N 38° 54' 40.70" W 77° 37' 57.27"
VOR: OTT	Available from N 38° 56' 1.00" W 77° 27' 21.23" to N 38° 56' 33.33" W 77° 32' 31.52"

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 38° 54' 8.22" W 77° 39' 31.02"	N 38° 53' 48.36" W 77° 40' 40.44"	1.0
	VOR: ADW	Available from N 38° 54' 8.22" W 77° 39' 31.02" to N 38° 53' 48.36" W 77° 40' 40.44"	
	VOR: AML	Available from N 38° 54' 8.22" W 77° 39' 31.02" to N 38° 53' 48.36" W 77° 40' 40.44"	
	VOR: BRV	Available from N 38° 54' 8.22" W 77° 39' 31.02" to N 38° 53' 48.36" W 77° 40' 40.44"	
	VOR: CSN	Available from N 38° 54' 8.22" W 77° 39' 31.02" to N 38° 53' 48.36" W 77° 40' 40.44"	
	VOR: DCA	Available from N 38° 54' 8.22" W 77° 39' 31.02" to N 38° 53' 48.36" W 77° 40' 40.44"	
	VOR: FDK	Available from N 38° 54' 8.22" W 77° 39' 31.02" to N 38° 53' 48.36" W 77° 40' 40.44"	
	VOR: LDN	Available from N 38° 54' 8.22" W 77° 39' 31.02" to N 38° 53' 48.36" W 77° 40' 40.44"	
	VOR: MRB	Available from N 38° 54' 8.22" W 77° 39' 31.02" to N 38° 53' 48.36" W 77° 40' 40.44"	
3	N 38° 53' 46.57" W 77° 40' 58.22"	N 38° 53' 35.18" W 77° 42' 56.89"	1.6
	VOR: ADW	Available from N 38° 53' 46.57" W 77° 40' 58.22" to N 38° 53' 36.47" W 77° 42' 43.48"	
	VOR: AML	Available from N 38° 53' 46.57" W 77° 40' 58.22" to N 38° 53' 35.18" W 77° 42' 56.89"	
	VOR: BRV	Available from N 38° 53' 46.57" W 77° 40' 58.22" to N 38° 53' 35.18" W 77° 42' 56.89"	
	VOR: CSN	Available from N 38° 53' 46.57" W 77° 40' 58.22" to N 38° 53' 35.18" W 77° 42' 56.89"	
	VOR: DCA	Available from N 38° 53' 46.57" W 77° 40' 58.22" to N 38° 53' 35.18" W 77° 42' 56.89"	
	VOR: FDK	Available from N 38° 53' 46.57" W 77° 40' 58.22" to N 38° 53' 35.18" W 77° 42' 56.89"	
	VOR: LDN	Available from N 38° 53' 46.57" W 77° 40' 58.22" to N 38° 53' 35.18" W 77° 42' 56.89"	
	VOR: MRB	Available from N 38° 53' 46.57" W 77° 40' 58.22" to N 38° 53' 35.18" W 77° 42' 56.89"	

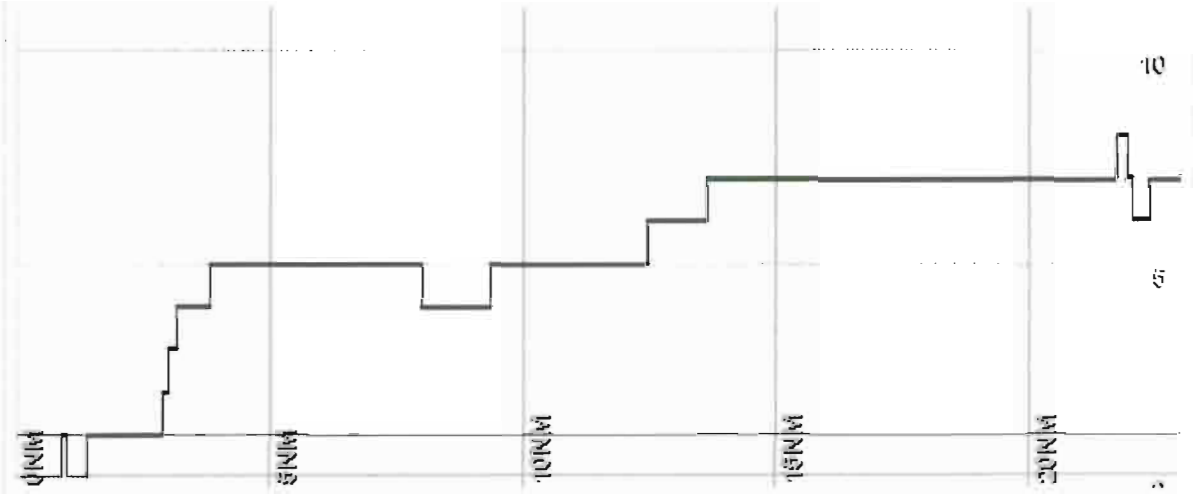
DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
4	N 38° 53' 33.17" W 77° 43' 17.77"	N 38° 53' 23.42" W 77° 44' 59.03"	1.3
	VOR: AML	Available from N 38° 53' 33.17" W 77° 43' 17.77" to N 38° 53' 23.42" W 77° 44' 59.03"	
	VOR: BRV	Available from N 38° 53' 33.17" W 77° 43' 17.77" to N 38° 53' 23.42" W 77° 44' 59.03"	
	VOR: CSN	Available from N 38° 53' 33.17" W 77° 43' 17.77" to N 38° 53' 23.42" W 77° 44' 59.03"	
	VOR: DCA	Available from N 38° 53' 33.17" W 77° 43' 17.77" to N 38° 53' 23.42" W 77° 44' 59.03"	
	VOR: FDK	Available from N 38° 53' 33.17" W 77° 43' 17.77" to N 38° 53' 23.42" W 77° 44' 59.03"	
	VOR: LDN	Available from N 38° 53' 33.17" W 77° 43' 17.77" to N 38° 53' 23.42" W 77° 44' 59.03"	
	VOR: MRB	Available from N 38° 53' 33.17" W 77° 43' 17.77" to N 38° 53' 23.42" W 77° 44' 59.03"	

Radar Analysis

Return To Summary

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