Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 10/05/2011	Task #: 2011100529630801003	Request #: 20111005296308
Procedure: SID HURIC (RNAV) ONE RALEIGH-DURHAM NC KRDU		**Airport ID:** KRDU	**Airport:** RALEIGH-DURHAM INTL		**Reimbursable #:**
City: RALEIGH/DURHAM	**ST:** NC	**GPS #:**		**Estimated Chart Date:** 01/10/2013	**FICO #:**
Fac ID:	**Fac. Type:** Proc D	**Specialist:** DAVID SAUER			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	07/03/2012	08/29/2012	MARLON ROBINSON	DME / DME
QA:	08/29/2012	09/05/2012	STEVEN SZUKALA	
Liaison:	09/05/2012		Spurlin	DME/DME

P3

ESV REQUEST INCLUDED

Procedure Comments: ENROUTE

Remark Type: INFORMATION

pg 3 of 7

RALEIGH/DURHAM, NC RALEIGH-DURHAM INTL (KRDU) HURIC ONE (RNAV) (SID) ENROUTE-YES FC: 11.13.12 PUB: 1.10.13

ATTACHED FORMS: ESV REPORTS; 8260-15B; 8260-15C; 8260-2(S): HURIC, ORIG; STRMY, ORIG; TAR RIVER (TYI) VTAC, REV 13.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

(Continued on next page)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5L, 5R: Climb heading 052° or as assigned by ATC, expect radar vectors to STRMY thence....

TAKEOFF RWY 14: Climb heading 142° or as assigned by ATC, expect radar vectors to STRMY thence....

TAKEOFF RWY 23L, 23R: Climb heading 232° or as assigned by ATC, expect radar vectors to STRMY thence....

TAKEOFF RWY 32: Climb heading 322° or as assigned by ATC, expect radar vectors to STRMY thence....

....on track 090° to HURIC, turbojets maintain 7000, propellers maintain 2000. Expect clearance to filed altitude within ten minutes after departure.

TAKEOFF OBSTACLES

NOTE: Rwy 5L, Trees beginning 3,802' from DER, 1,237' left of centerline, up to 77' AGL/506' MSL. Tank and trees beginning 2,011' from DER, 948' right of centerline, up to 138' AGL/547' MSL.

NOTE: Rwy 5R, Trees beginning 1,436' from DER, 803' right of centerline, up to 80' AGL/469' MSL.

NOTE: Rwy 14, Trees beginning 2,021' from DER, 510' left of centerline, up to 116' AGL/545' MSL. Trees beginning 2,467' from DER, 2' right of centerline, up to 122' AGL/571' MSL.

NOTE: Rwy 23L, Trees beginning 1,495' from DER, 797' left of centerline, up to 58' AGL/447' MSL. Light pole 1,457' from DER, 878' right of centerline, 93' AGL/452' MSL.

NOTE: Rwy 32, Light poles beginning 1,170' from DER, 618' left of centerline, up to 55' AGL/486' MSL. Hangar 1,242' from DER, 753' right of centerline, 34' AGL/473' MSL. Control tower 2,207' from DER, 910' right of centerline, 231' AGL/660' MSL.

PROTOTYPE-NOT FOR NAVIGATION

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : FAYETTEVILLE	City : FAYETTEVILLE	Ident : FAY	State : NC
Type/Class : DME	Frequency : M986	Reference No.: 10039219	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 815801-025	24	50	85	40	120

Requirement: ESTABLISH ESV FOR HURIC RNAV SID		
Signature: Osterhage Dennis	Routing Symbol: AJVJ-E2	Date: 03/10/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 815801-025	24	50	85	50	120	RESTRICT

Requirement/Remarks: ESTABLISH ESV FOR HURIC RNAV SIDRestricted. Inadequate Coverage MIN ALT FL=50		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 03/17/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 815801-025	24	50	85	50	120	RESTRICT

Requirement/Remarks: ESTABLISH ESV FOR HURIC RNAV SIDRestricted. Inadequate Coverage MIN ALT FL=50		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 03/17/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 815801-025	24	50	85	50	120	RESTRICT

Requirement/Remarks: ESTABLISH ESV FOR HURIC RNAV SIDRestricted. Inadequate Coverage MIN ALT FL=50		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 03/17/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 815801-025	24	50	85	50	120	RESTRICT

Requirement/Remarks: ESTABLISH ESV FOR HURIC RNAV SIDRestricted. Inadequate Coverage MIN ALT FL=50		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 03/17/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 815801-025	24	50				

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LAWRENCEVILLE	City : LAWRENCEVILLE	Ident : LVL	State : VA
Type/Class : TACR	Frequency : M1163	Reference No.: 10039218	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704121-005	188	228	70	40	120

Requirement: ESTABLISH ESV FOR HURIC RNAV SID		
Signature: Osterhage Dennis	Routing Symbol: AJV-E2	Date: 03/10/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704121-005	188	228	70	40	120	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR HURIC RNAV SIDApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 03/11/2010

Expanded Service Volume Data: (Super FMO)

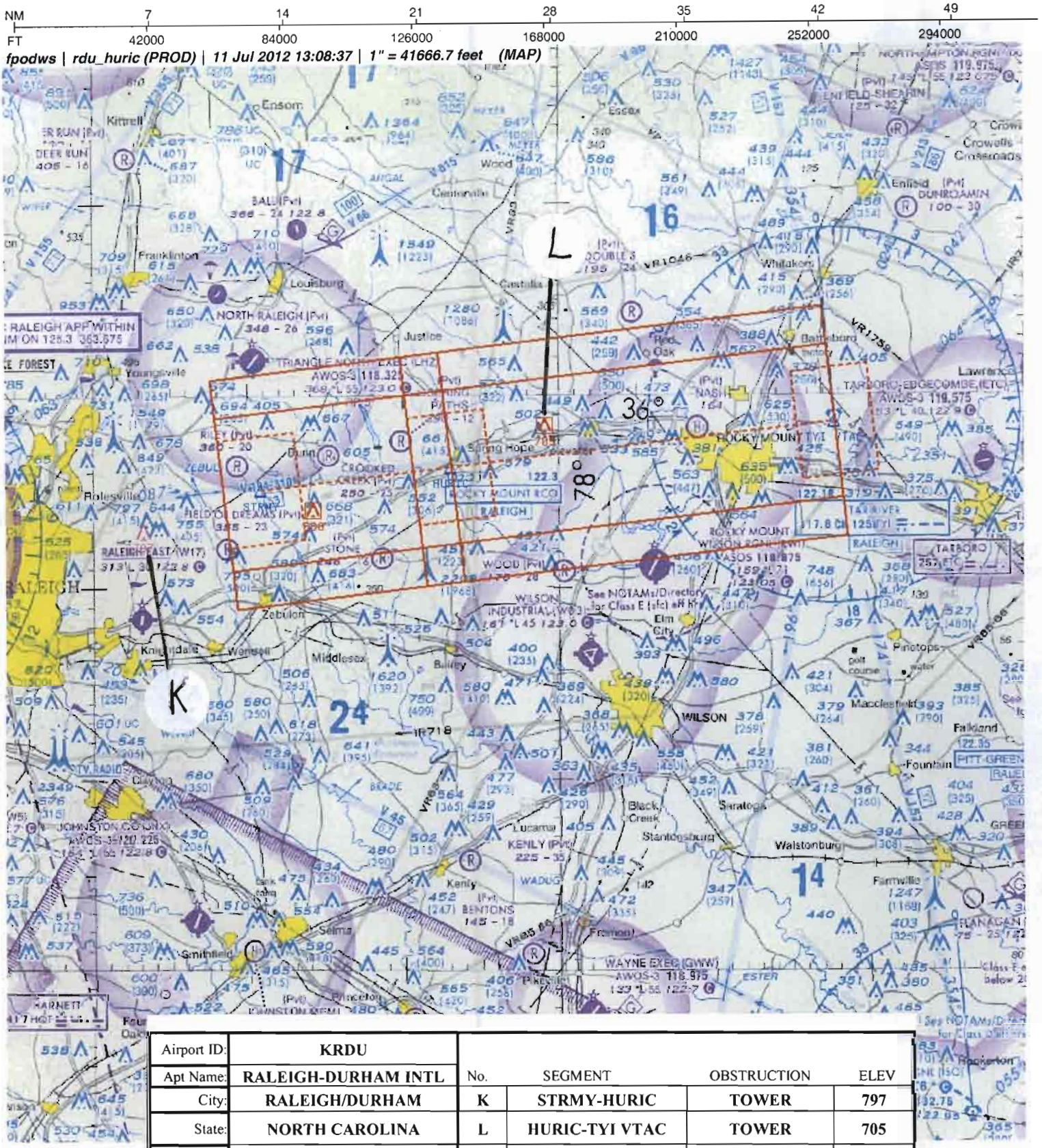
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704121-005	188	228	70	40	120	APPROVE

Requirement/Remarks: ESTABLISH ESV FOR HURIC RNAV SIDApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 03/15/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704121-005	188	228				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:



Airport ID:	KRDU				
Apt Name:	RALEIGH-DURHAM INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	RALEIGH/DURHAM	K	STRMY-HURIC	TOWER	797
State:	NORTH CAROLINA	L	HURIC-TYI VTAC	TOWER	705
Proc ID:	HURIC (RNAV)				
Amdt #:	ONE				
Scale:	1: 500,000				

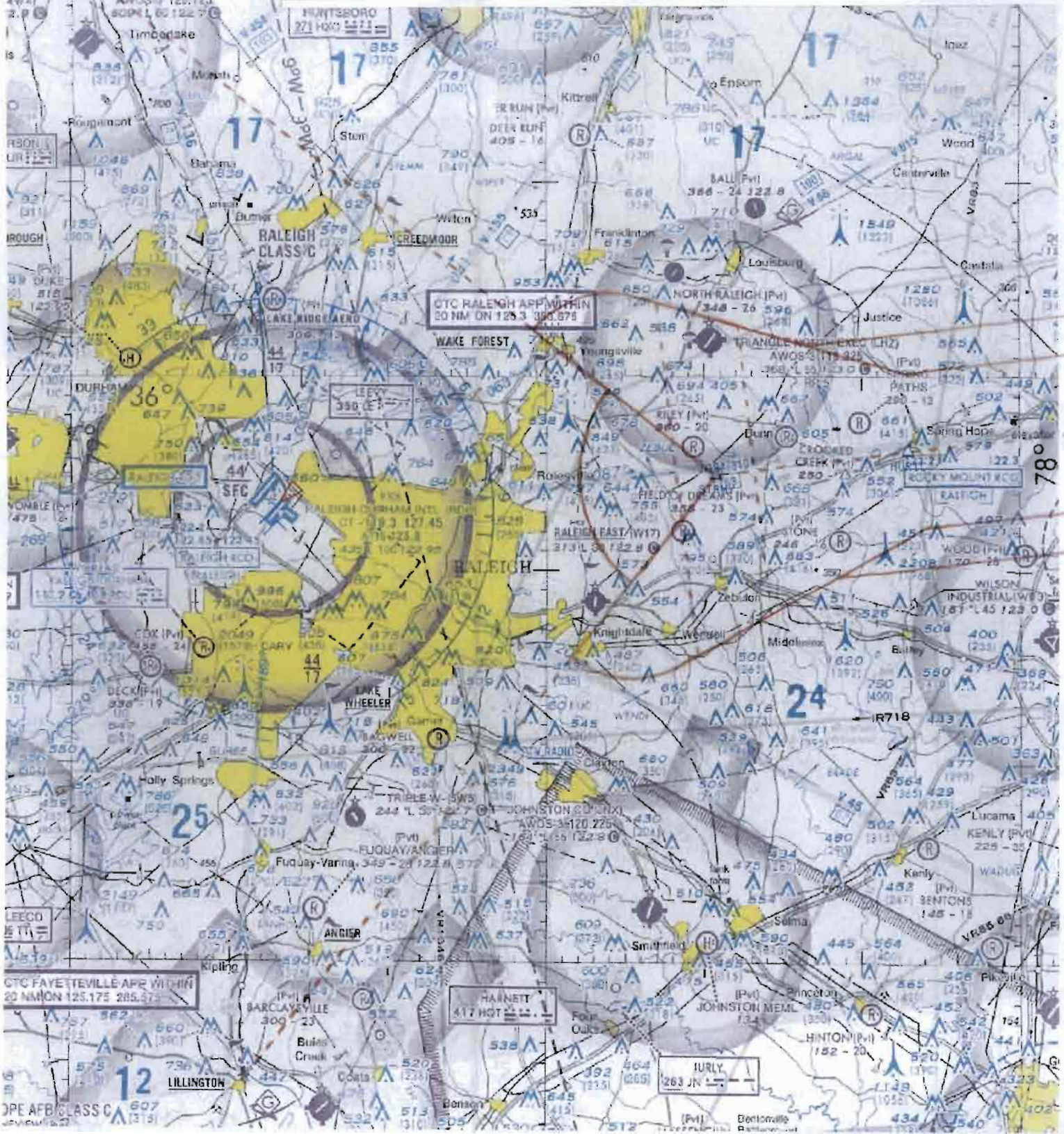
NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpodws | rdu_ica (PROD) | 12 Jul 2012 10:17:36 | 1" = 41666.7 feet (MAP)

Airport ID:	KRDU
Apt Name:	RALEIGH-DURHAM INTL
City:	RALEIGH/DURHAM
State:	NORTH CAROLINA
Proc ID:	HURIC (RNAV)
Amdt #:	ONE
Scale:	1: 500,000

No.	SEGMENT	OBSTRUCTION	ELEV
	RWY 05L PNA		ASC



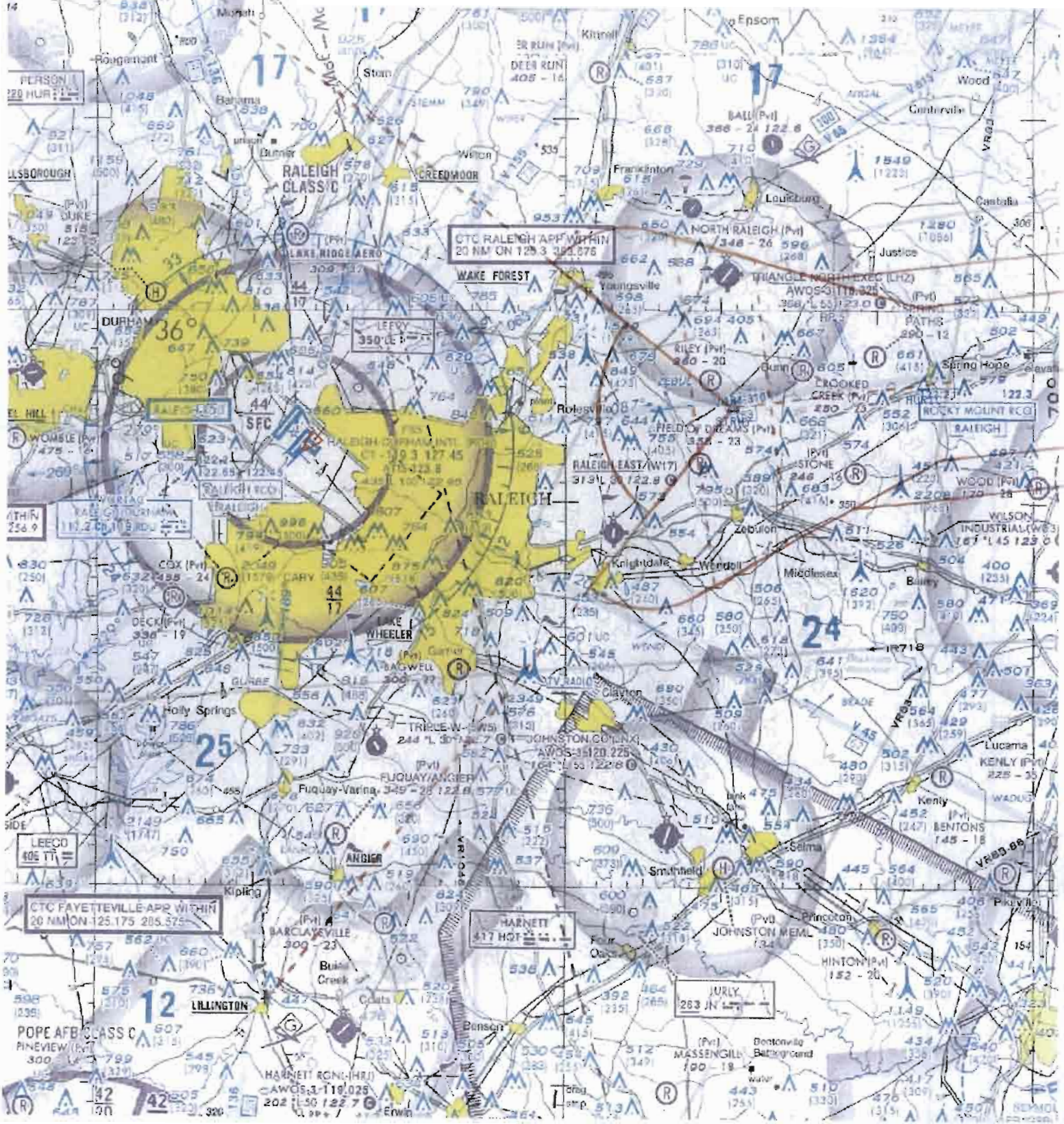
NM 7 14 21 28 35 42 49

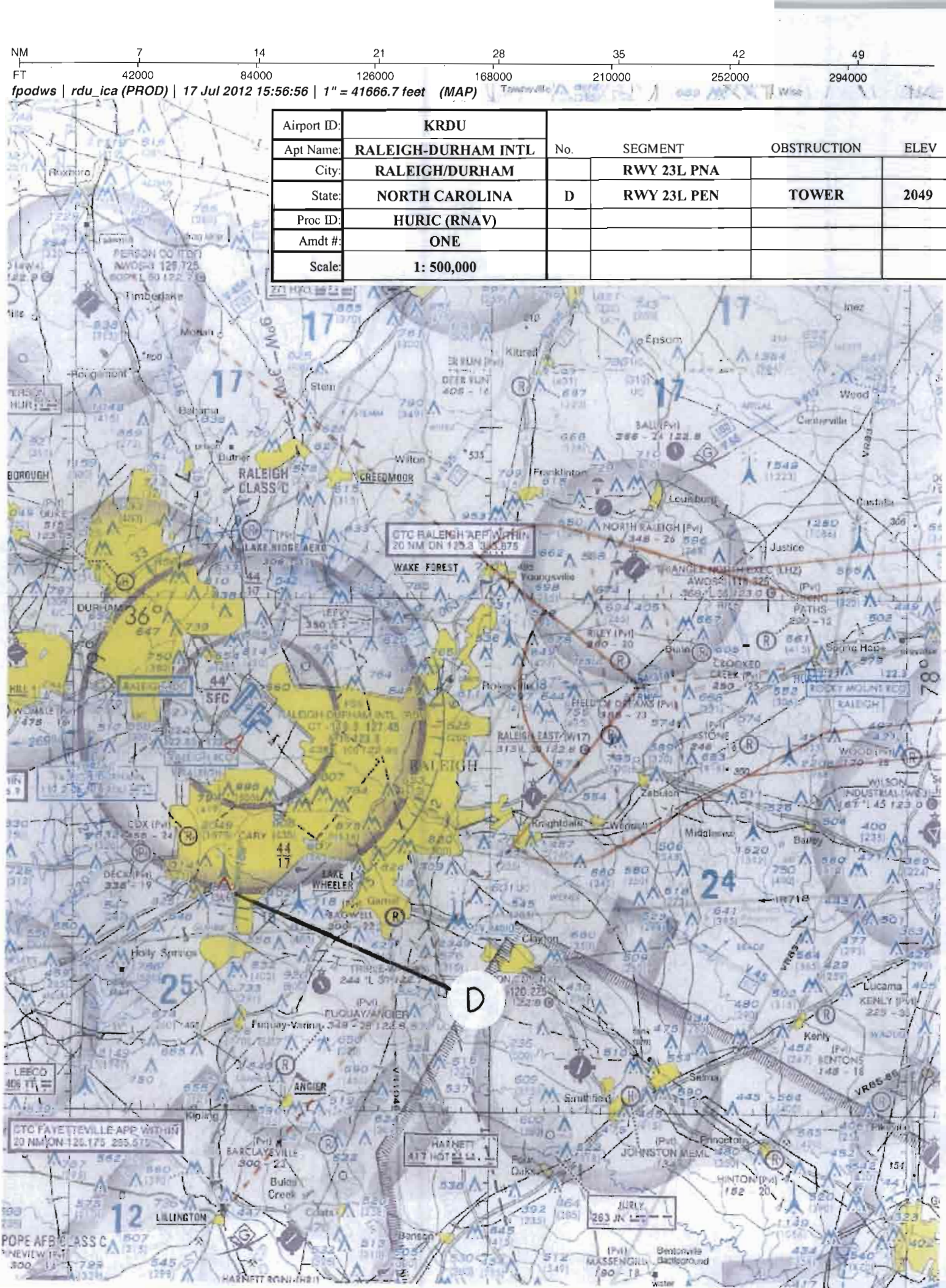
FT 42000 84000 126000 168000 210000 252000 294000

fpodws | rdu_ica (PROD) | 17 Jul 2012 16:04:15 | 1" = 41666.7 feet (MAP)

Airport ID:	KRDU
Apt Name:	RALEIGH-DURHAM INTL
City:	RALEIGH/DURHAM
State:	NORTH CAROLINA
Proc ID:	HURIC (RNAV)
Amdt #:	ONE
Scale:	1: 500,000

No.	SEGMENT	OBSTRUCTION	ELEV
	RWY 05R PNA		ASC




NM 7 14 21 28 35 42 49
FT 42000 84000 126000 168000 210000 252000 294000
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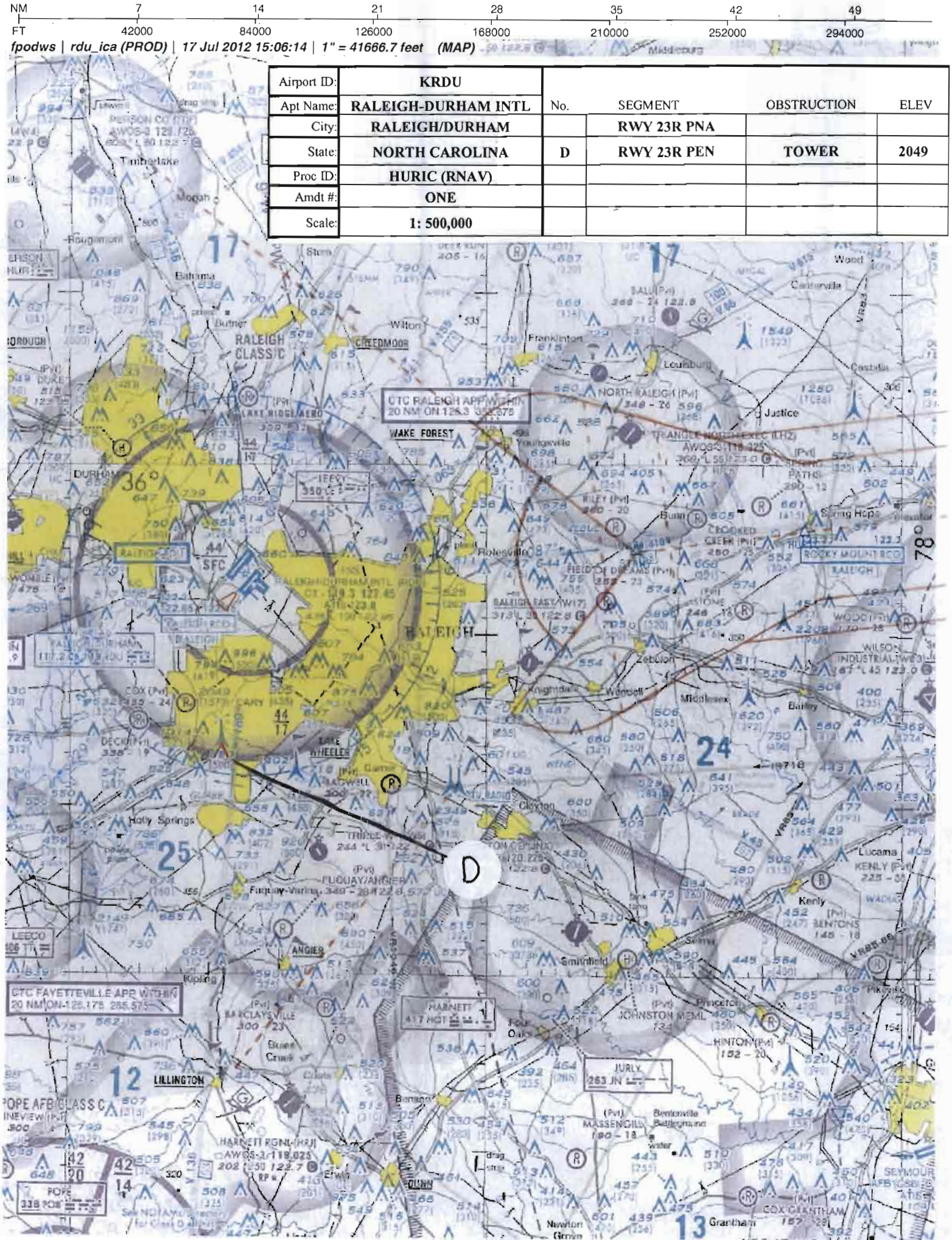
Airport ID: KRDU
Apt Name: RALEIGH-DURHAM INTL
City: RALEIGH/DURHAM
State: NORTH CAROLINA
Proc ID: HURIC (RNAV)
Amdt #: ONE
Scale: 1: 500,000
No. SEGMENT OBSTRUCTION ELEV
RWY 23L PNA
D RWY 23L PEN TOWER 2049
RALEIGH CLASS C
CTC RALEIGH APP WITHIN 20 NM ON 125.3
CTC FAYETTEVILLE APP WITHIN 20 NM ON 125.175
WAKE FOREST
CREEDMOOR
LAKE WHEELER
D



Airport ID:	KRDU				
Apt Name:	RALEIGH-DURHAM INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	RALEIGH/DURHAM		RWY 23R PNA		
State:	NORTH CAROLINA	D	RWY 23R PEN	TOWER	2049
Proc ID:	HURIC (RNAV)				
Amdt #:	ONE				
Scale:	1: 500,000				

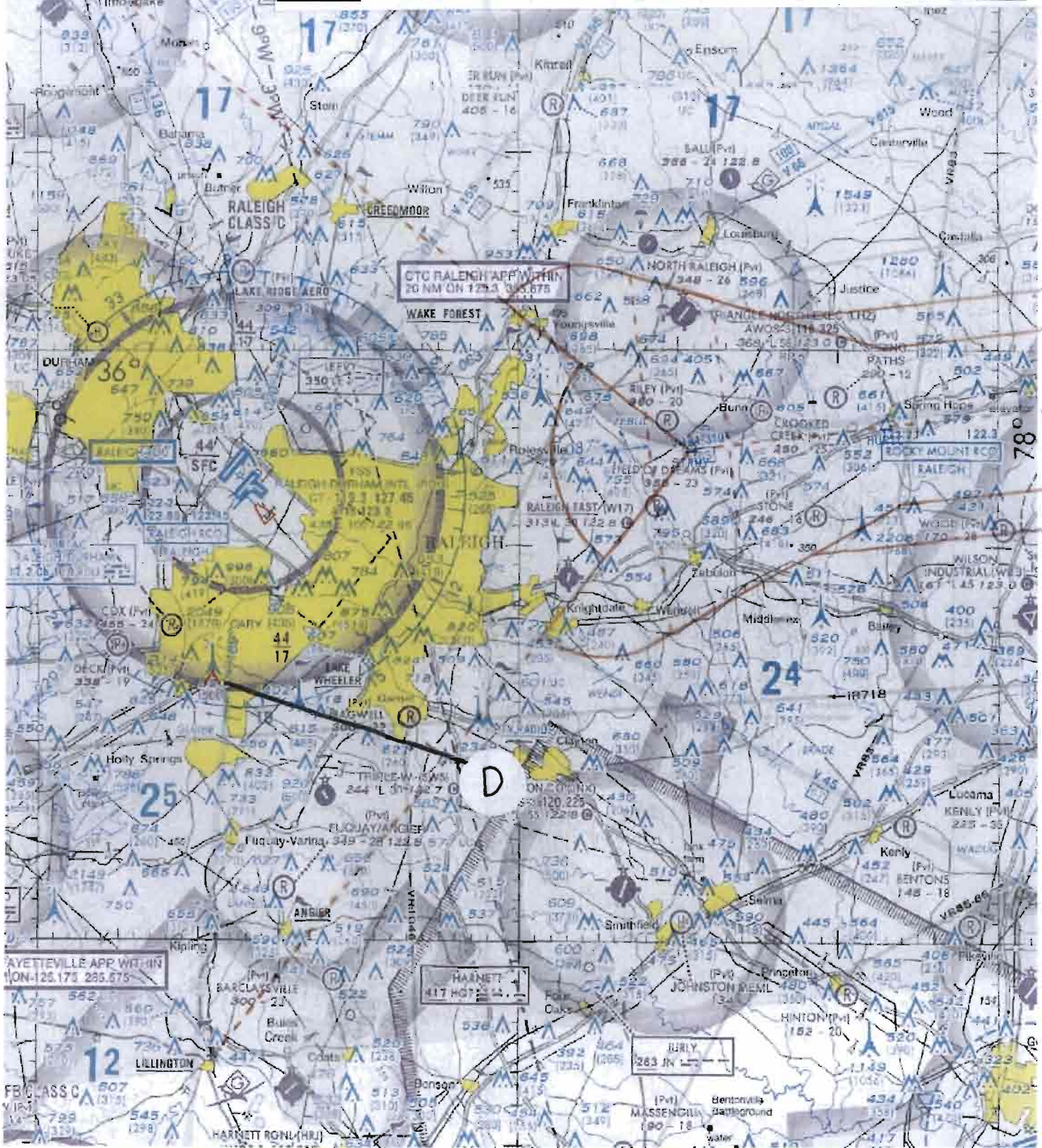
NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpodws | rdu_ica (PROD) | 12 Jul 2012 09:50:11 | 1" = 41666.7 feet (MAP)

Airport ID:	KRDU
Apt Name:	RALEIGH-DURHAM INTL
City:	RALEIGH/DURHAM
State:	NORTH CAROLINA
Proc ID:	HURIC (RNAV)
Amdt #:	ONE
Scale:	1: 500,000

No.	SEGMENT	OBSTRUCTION	ELEV
	RWY 14 PNA		
D	RWY 14 PEN	TOWER	2049

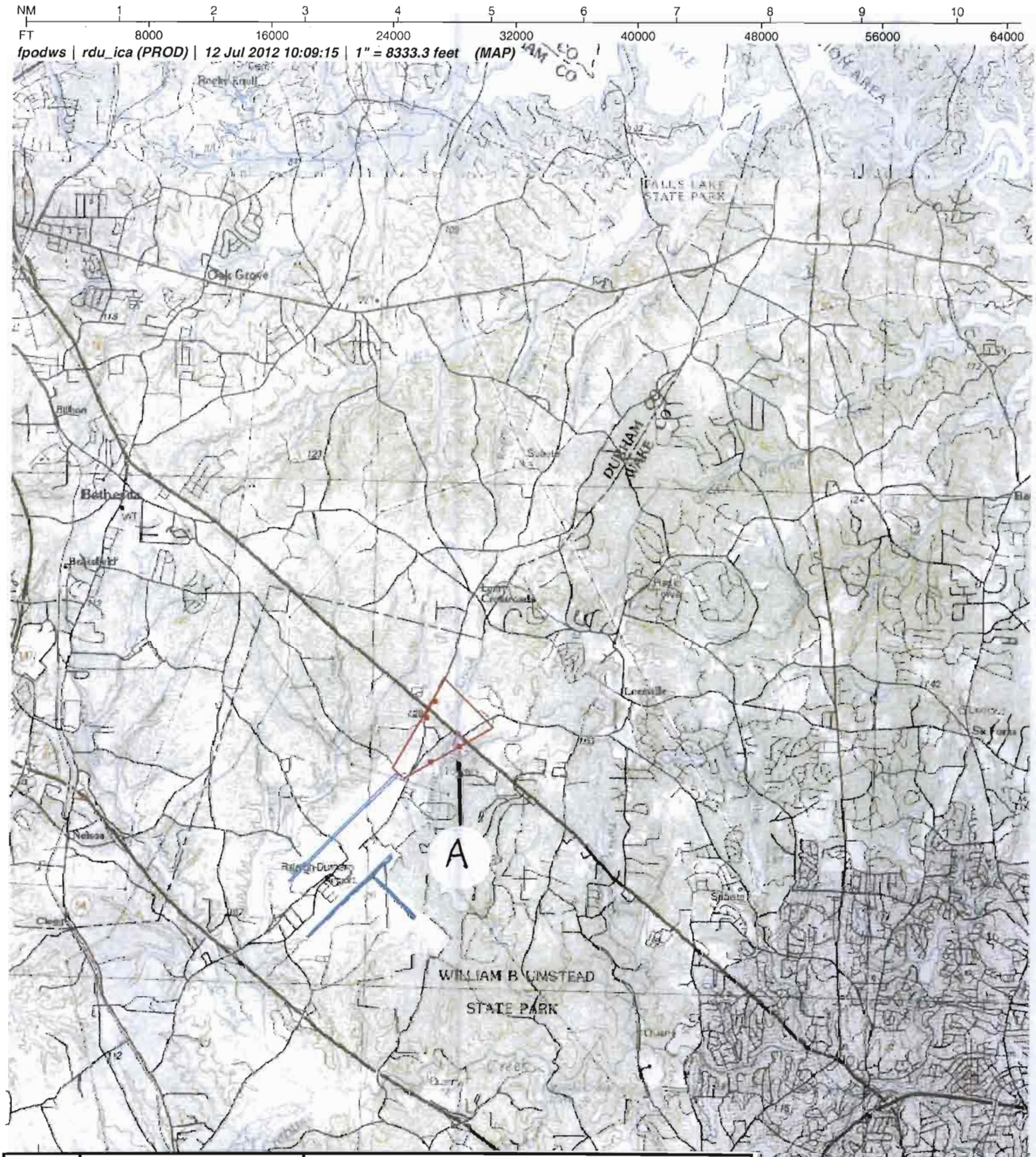


NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

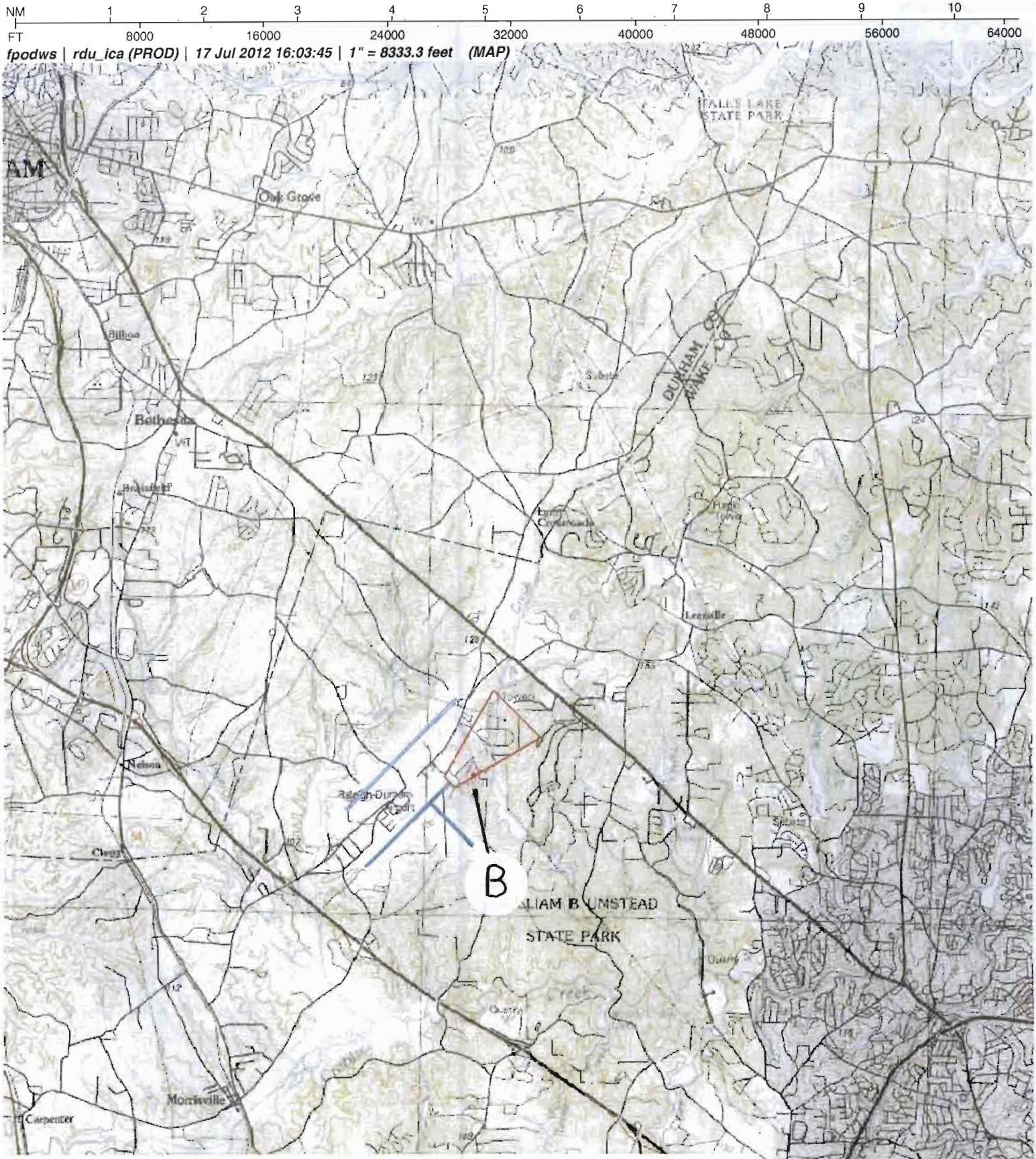
fpodws | rdu_ica (PROD) | 12 Jul 2012 09:20:25 | 1" = 41666.7 feet (MAP)

Airport ID:	KRDU				
Apt Name:	RALEIGH-DURHAM INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	RALEIGH/DURHAM		RWY 32 PNA		ASC
State:	NORTH CAROLINA				
Proc ID:	HURIC (RNAV)				
Amdt #:	ONE				
Scale:	1: 500,000				



Airport ID:	KRDU				
Apt Name:	RALEIGH-DURHAM INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	RALEIGH/DURHAM	A	RWY 05L ICA	OL ON TANK	547
State:	NORTH CAROLINA				
Proc ID:	HURIC (RNAV)				
Amdt #:	ONE				
Scale:	1: 100,000				

05R



Airport ID:	KRDU				
Apt Name:	RALEIGH-DURHAM INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	RALEIGH/DURHAM	B	RWY 05R ICA	TREE	469
State:	NORTH CAROLINA				
Proc ID:	HURIC (RNAV)				
Amdt #:	ONE				
Scale:	1: 100,000				

23L

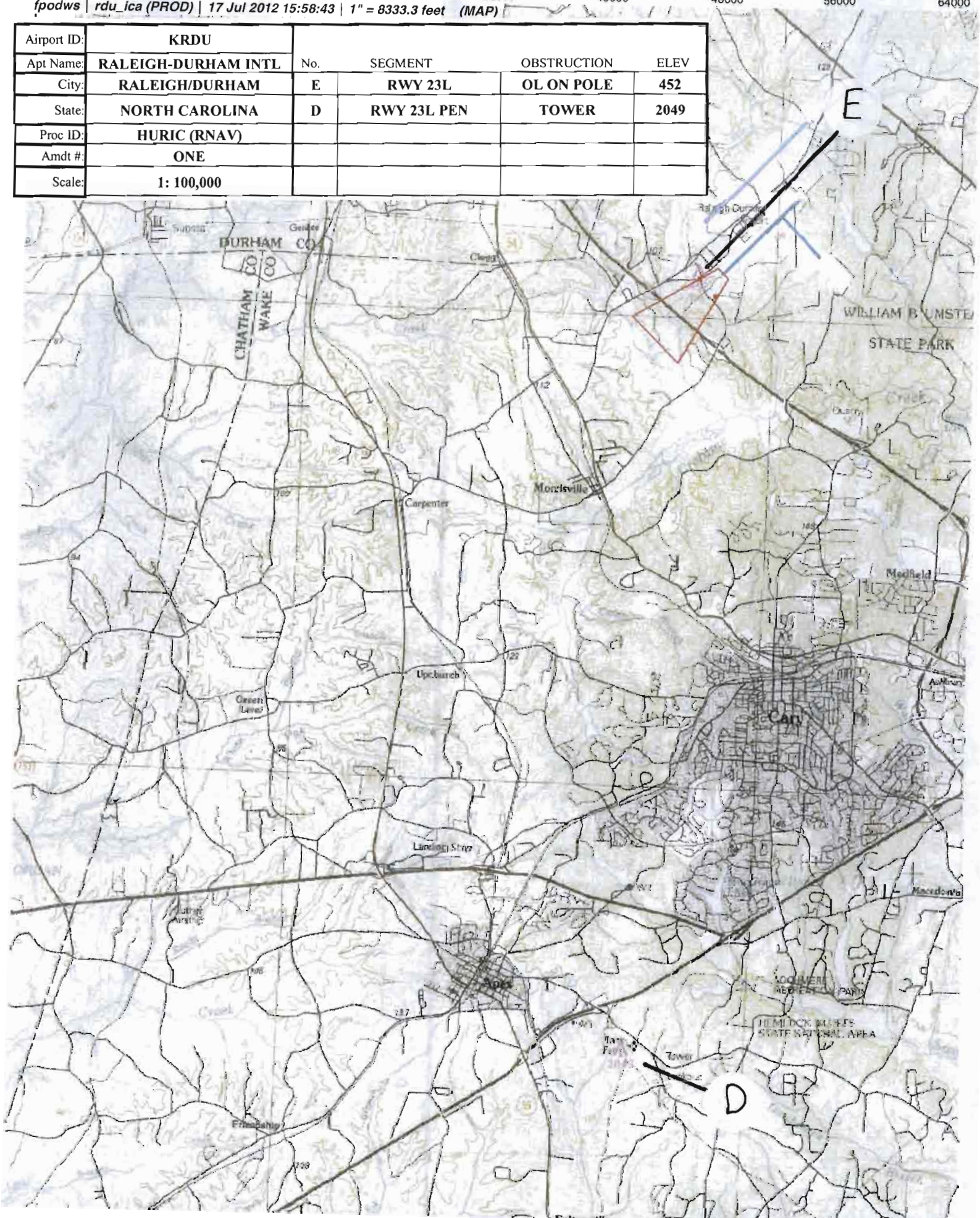
NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpodws | rdu_ica (PROD) | 17 Jul 2012 15:58:43 | 1" = 8333.3 feet (MAP)

Airport ID:	KRDU
Apt Name:	RALEIGH-DURHAM INTL
City:	RALEIGH/DURHAM
State:	NORTH CAROLINA
Proc ID:	HURIC (RNAV)
Amdt #:	ONE
Scale:	1: 100,000

No.	SEGMENT	OBSTRUCTION	ELEV
E	RWY 23L	OL ON POLE	452
D	RWY 23L PEN	TOWER	2049



R23R

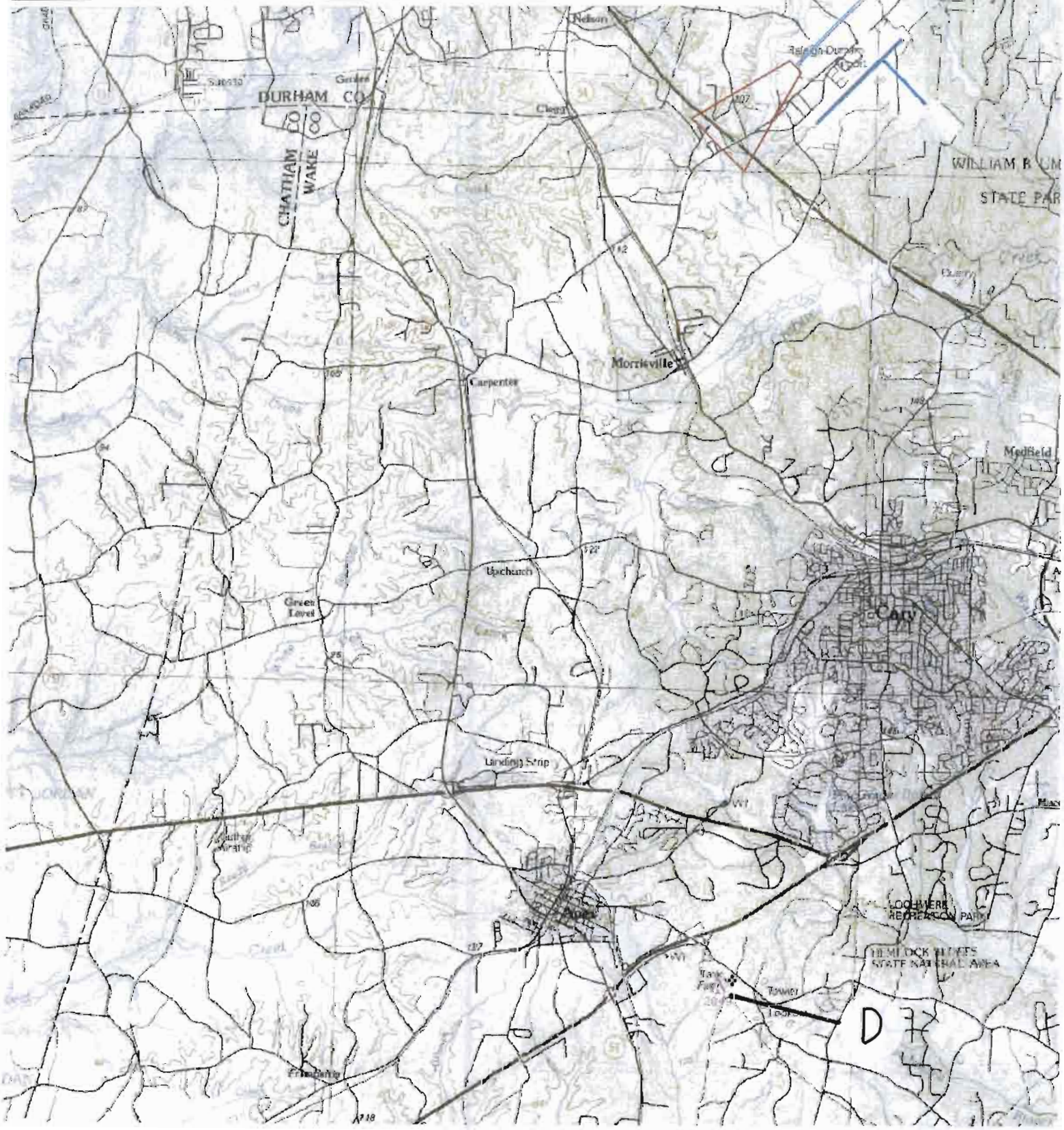
NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

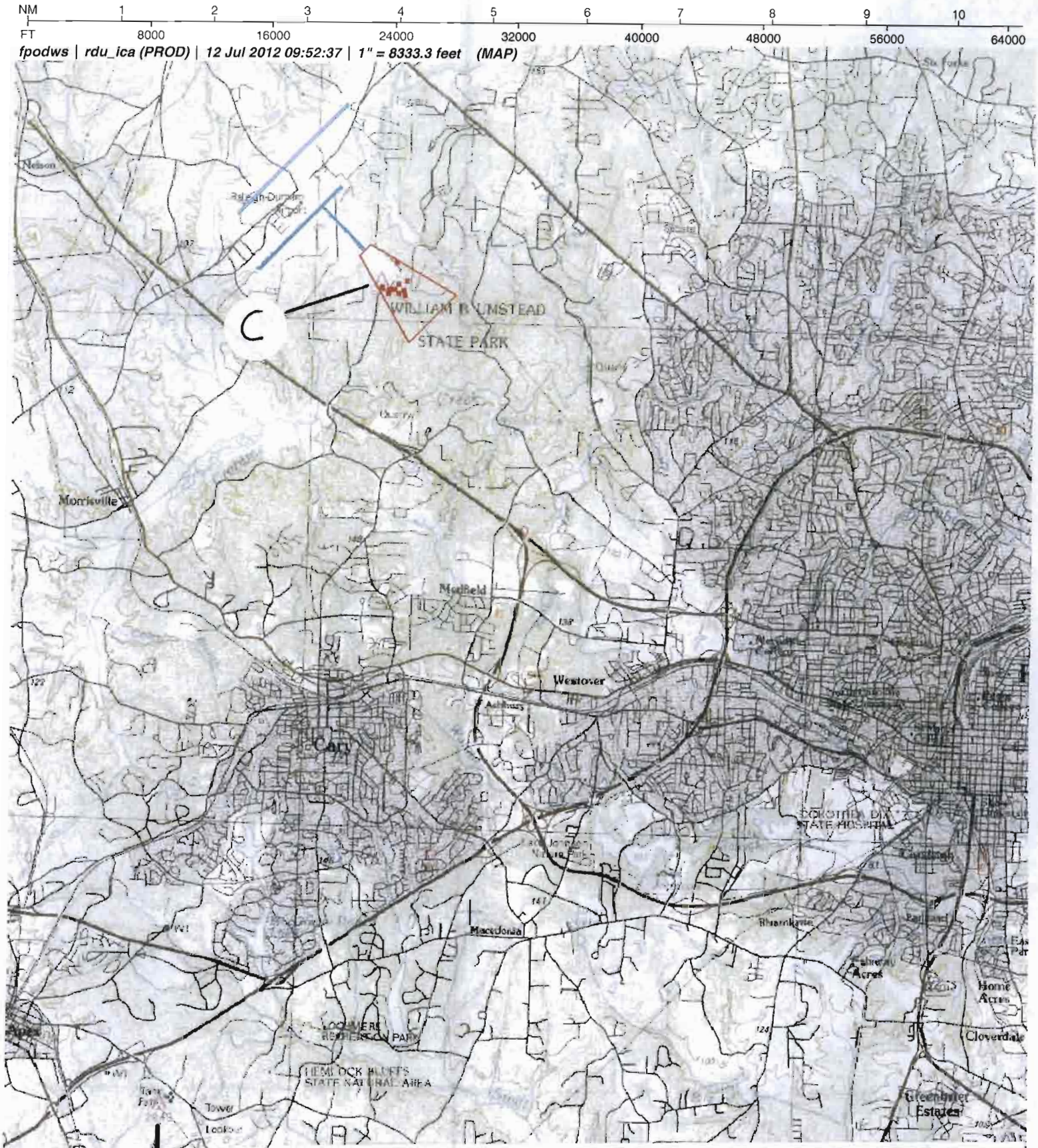
fpodws | rdu_ica (PROD) | 17 Jul 2012 14:51:55 | 1" = 8333.3 feet (MAP)

Airport ID:	KRDU
Apt Name:	RALEIGH-DURHAM INTL
City:	RALEIGH/DURHAM
State:	NORTH CAROLINA
Proc ID:	HURIC (RNAV)
Amdt #:	ONE
Scale:	1: 100,000

No.	SEGMENT	OBSTRUCTION	ELEV
	RWY 23R ICA		ASC
D	RWY 23R PEN	TOWER	2049



R14



Airport ID:	KRDU
Apt Name:	RALEIGH-DURHAM INTL
City:	RALEIGH/DURHAM
State:	NORTH CAROLINA
Proc ID:	HURIC (RNAV)
Amdt #:	ONE
Scale:	1: 100,000

No.	SEGMENT	OBSTRUCTION	ELEV
C	RWY 14 ICA	TREE	558
D	RWY 14 PEN	TOWER	2049

R32

Airport ID:	KRDU				
Apt Name:	RALEIGH-DURHAM INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	RALEIGH/DURHAM	F	RWY 32 ICA	CTRL TOWER	660
State:	NORTH CAROLINA				
Proc ID:	HURIC (RNAV)				
Amdt #:	ONE				
Scale:	1: 100,000				

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
HURIC (RNAV)	ONE	HURIC1.HURIC	NONE		

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 05L, 05R: CLIMB HEADING 052.14 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO STRMY THENCE...
TAKEOFF RWY 14: CLIMB HEADING 142.15 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO STRMY THENCE...
TAKEOFF RWY 23L: CLIMB HEADING 232.15 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO STRMY THENCE...
TAKEOFF RWY 23R: CLIMB HEADING 232.16 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO STRMY THENCE...
TAKEOFF RWY 32: CLIMB HEADING 322.15 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO STRMY THENCE...

...ON TRACK 090.25 TO HURIC (MEA 6000/MOCA 1800), TURBOJETS MAINTAIN 7000, PROPELLERS MAINTAIN 2000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN TEN 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
TAR RIVER	HURIC1.TYI	HURIC	TYI VORTAC	TRACK 090.33	20.21	10100	1800	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: TRANSPONDER CODE WILL BE ASSIGNED VIA PDC OR RALEIGH CLEARANCE DELIVERY.
NOTE: IF UNABLE TO ACCEPT CLIMB RATE, ADVISE ATC ON INITIAL CONTACT.
NOTE: RNAV-1.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED.

TAKEOFF MINIMUMS:
RWY 05L, 05R, 14, 23R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 940.
RWY 23L, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1100.
RWY 32, 300-1 WITH MINIMUM CLIMB OF 500 FT PER NM TO 940.

TAKEOFF OBSTACLES NOTES:

RWY 05L, TREES BEGINNING 3802 FT FROM DER, 1237 FT LEFT OF CENTERLINE, UP TO 77 FT AGL/506 FT MSL. TANK AND TREES BEGINNING 2011 FT FROM DER, 948 FT RIGHT OF CENTERLINE, UP TO 138 FT AGL/547 FT MSL.
RWY 05R, TREES BEGINNING 1436 FT FROM DER, 803 FT RIGHT OF CENTERLINE, UP TO 80 FT AGL/469 FT MSL.
RWY 14, TREES BEGINNING 2021 FT FROM DER, 510 FT LEFT OF CENTERLINE, UP TO 116 FT AGL/545 FT MSL. TREES BEGINNING 2467 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 122 FT AGL/571 FT MSL.
RWY 23L, TREES BEGINNING 1495 FT FROM DER, 797 FT LEFT OF CENTERLINE, UP TO 58 FT AGL/447 FT MSL. LIGHT POLE 1457 FT FROM DER, 878 FT RIGHT OF CENTERLINE, 93 FT AGL/452 FT MSL.
RWY 32, LIGHT POLES BEGINNING 1170 FT FROM DER, 618 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/486 FT MSL. HANGAR 1242 FT FROM DER, 753 FT RIGHT OF CENTERLINE, 34 FT AGL/473 FT MSL. CONTROL TOWER 2207 FT FROM DER, 910 FT RIGHT OF CENTERLINE, 231 FT AGL/660 FT MSL.

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
HURIC (RNAV)	ONE	HURIC1.HURIC	NONE		

CONTROLLING OBSTACLES:

RWY 14, 23L, 23R, 2049 FT MSL TOWER (37-001064) 354251.00N/0784903.00W.
RWY 32, 660 FT MSL CONTROL TOWER (37-001244) 355252.00N/0784709.00W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KRDU 7W EPOCH YEAR: 1985.
DME/DME ASSESSMENT: SAT (RNP 2.0).

PILOT NAVIGATION AREA:
7NM ARC CENTERED ON STRMY (IF), CW
FROM: POINT A (BEARING 045.25 TO STRMY)
TO: POINT B (BEARING 135.25 TO STRMY)
MINIMUM ALTITUDE - 4000

AIRPORTS SERVED:

RALEIGH-DURHAM INTL – RALEIGH/DURHAM, NC.

COMMUNICATIONS:

ATIS CLEARANCE DELIVERY, GROUND CONTROL, TOWER, DEPARTURE CONTROL: 125.3/353.675

FIXES AND/OR NAVAIDS:

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
HURIC (RNAV)	ONE	HURIC1.HURIC	NONE		

REMARKS:

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:
ROUTINE

DEVELOPED BY:
DAVID SAUER AJV-352 7/17/12

APPROVED BY:
DARRYEL ADAMS AJV-352

COORDINATED WITH:
APA, ALPA, AOPA, ATA, NBAA, ZDC, RDU ATCT, RDU APP CON, RDU AMGR.

CHANGES:

REASONS:

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HURIC (RNAV)	ONE	HURIC1.HURIC	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW05L (AER)	355228.02N/0784807.07W	N	-	-	-	-			CG 500 FT/NM TO 940
		-	-	VM	045.14	-			
STRMY	355507.67N/0781911.10W	Y	FB	DF	-	-			
RW05R (AER)	355152.67N/0784750.42W	N	-	-	-	-			CG 500 FT/NM TO 940
		-	-	VM	045.14	-			
STRMY	355507.67N/0781911.10W	Y	FB	DF	-	-			
RW14 (AER)	355230.11N/0784657.64W	N	-	-	-	-			CG 500 FT/NM TO 940
		-	-	VM	135.15	-			
STRMY	355507.67N/0781911.10W	Y	FB	DF	-	-			
RW23L (AER)	355244.98N/0784645.82W	N	-	-	-	-			CG 500 FT/NM TO 1100
		-	-	VM	225.15	-			
STRMY	355507.67N/0781911.10W	Y	FB	DF	-	-			
RW23R (AER)	355337.76N/0784640.92W	N	-	-	-	-			CG 500 FT/NM TO 940
		-	-	VM	225.16	-			
STRMY	355507.67N/0781911.10W	Y	FB	DF	-	-			
RW32 (AER)	355205.08N/0784627.05W	N	-	-	-	-			CG 500 FT/NM TO 940
		-	-	VM	315.15	-			
STRMY	355507.67N/0781911.10W	Y	FB	DF	-	-			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HURIC (RNAV)	ONE	HURIC1.HURIC	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
STRMY	355507.67N/0781911.10W	Y	FB	IF	-	-			
HURIC	355617.69N/0780657.34W	Y	FB	TF	083.25	10.00			
HURIC	355617.69N/0780657.34W	Y	-	IF	-	-			HURIC1.TYI
TYI VORTAC	355836.20N/0774213.43W	Y	FB	TF	083.33	20.21			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HURIC (RNAV)	ONE	HURIC1.HURIC	NONE		

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        TYI   K7011780VTL  N35583620W077421343    N35583620W077421343W0050000731     NARTAR RIVER

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HURIC K70    W     N35561769W078065734                    W0094    NAR          HURIC
        SUSAEAENRT   STRMY K70    W     N35550767W078191110                    W0093    NAR          STRMY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRDUK7ARDU     0     100YHN35523950W078471490W007000435         1800018000C    MNAR    RALEIGH-DURHAM INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRDUK7DHURIC14RW05B 010         0       VM                    0521                    18000
        SUSAP KRDUK7DHURIC14RW05B 020STRMYK7EA0EE   010DF
        SUSAP KRDUK7DHURIC14RW14  010         0       VM                    1422                    18000
        SUSAP KRDUK7DHURIC14RW14  020STRMYK7EA0EE   010DF
        SUSAP KRDUK7DHURIC14RW23B 010         0       VM                    2322                    18000
        SUSAP KRDUK7DHURIC14RW23B 020STRMYK7EA0EE   010DF
        SUSAP KRDUK7DHURIC14RW32  010         0       VM                    3222                    18000
        SUSAP KRDUK7DHURIC14RW32  020STRMYK7EA0EE   010DF
        SUSAP KRDUK7DHURIC15      010STRMYK7EA0E      IF                                            18000
        SUSAP KRDUK7DHURIC15      020HURICK7EA0EE   010TF                 09030100
        SUSAP KRDUK7DHURIC16TYI   010HURICK7EA0E     IF                                            18000
        SUSAP KRDUK7DHURIC16TYI   020TYI  K7D 0VE   010TF                 09030202

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRDUK7GRW05L   0100000521 N35522802W078480707+0400    +00798003670000057150IIGKK1
        SUSAP KRDUK7GRW05R   0075000521 N35515267W078475042+0400    +00891003970000059150IIRDU1
        SUSAP KRDUK7GRW14    0035701422 N35523011W078465764-0200    +0099600432000050100D
        SUSAP KRDUK7GRW23L   0075002322 N35524498W078464582-0400    +00992004310000056150IILEI1
        SUSAP KRDUK7GRW23R   0100002322 N35533776W078464092-0400    +00925004090000056150IIDMP3
        SUSAP KRDUK7GRW32    0035703222 N35520508W078462705+0200    +0097300425000045100R
```

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
HURIC (RNAV)	ONE	HURIC1.HURIC	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW05B		010		VM		FB		052.1()			
	RW05B	STRMY	020		DF		FB	1.0				
	RW14		010		VM		FB		142.2()			
	RW14	STRMY	020		DF		FB	1.0				
	RW23B		010		VM		FB		232.2()			
	RW23B	STRMY	020		DF		FB	1.0				
	RW32		010		VM		FB		322.2()			
	RW32	STRMY	020		DF		FB	1.0				
		STRMY	010		IF		FB					
		HURIC	020		TF		FB	1.0	090.3()	010.0		
	TYI	HURIC	010		IF		FB					
	TYI	TYI	020		TF		FB	1.0	090.3()	020.2		

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	TYI	N355836.20	W0774213.43	N3558.603	W07742.224
	HURIC	N355617.69	W0780657.34	N3556.295	W07806.956
	STRMY	N355507.67	W0781911.10	N3555.128	W07819.185
	RW05L	N355228.02	W0784807.07	N3552.467	W07848.118
	RW05R	N355152.67	W0784750.42	N3551.878	W07847.840
	RW14	N355230.11	W0784657.64	N3552.502	W07846.961
	RW23L	N355244.98	W0784645.82	N3552.750	W07846.764
	RW23R	N355337.76	W0784640.92	N3553.629	W07846.682
	RW32	N355205.08	W0784627.05	N3552.085	W07846.451

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05L	00367	57
	RW05R	00397	59
	RW14	00432	50
	RW23L	00431	56
	RW23R	00409	56
	RW32	00425	45

RADIO FIX AND HOLDING DATA RECORD

NAME: HURIC **STATE:** NC **COUNTRY:** US

LATITUDE/LONGITUDE: 355617.69N/0780657.34W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HURIC (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 07/12/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: STRMY **STATE:** NC **COUNTRY:** US

LATITUDE/LONGITUDE: 355507.67N/0781911.10W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HURIC (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 07/12/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: TAR RIVER VORTAC **STATE:** NC **COUNTRY:** US

LATITUDE/LONGITUDE: 355836.20N/0774213.43W **TYPE:**

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	TAR RIVER	TYI	VORTAC	L							17500

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	S	TYI	VORTAC	174.00	354.00	R	1-1 1/2		2000	17500	4	16
2	NE	TYI	VORTAC	057.79	237.79	R	1		2000	10000	4	9
3	S	TYI	VORTAC	193.93	013.93	R	1		2000	10000	4	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	TOWER (37-001056)	354841.00N/0774432.00W	748	5D
1	200	TOWER (37-001938)	355646.00N/0773936.00W	549	2D
2	200	TOWER (37-000889)	355819.00N/0774743.00W	625	3C
3	200	TOWER (37-001129)	355407.00N/0774657.00W	635	5D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MOUNTY			KFAY	FAYETTEVILLE	NC (US)
DP	HURIC (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)
DP	RALEIGH			KRDU	RALEIGH/DURHAM	NC (US)
EN ROUTE	J209					(US)
EN ROUTE	J40					(US)
EN ROUTE	J79					(US)
EN ROUTE	V157					(US)
EN ROUTE	V189					(US)
EN ROUTE	V194					(US)
EN ROUTE	V213					(US)
EN ROUTE	V290					(US)
EN ROUTE	V310					(US)
IAP	ILS OR LOC RWY 23			KGWW	GOLDSBORO	NC (US)
IAP	VOR-A			KGWW	GOLDSBORO	NC (US)
IAP	ILS OR LOC RWY 5			KLHZ	LOUISBURG	NC (US)
IAP	ILS OR LOC RWY 23L			KRDU	RALEIGH/DURHAM	NC (US)
IAP	ILS OR LOC RWY 5R			KRDU	RALEIGH/DURHAM	NC (US)
IAP	RNAV (GPS) RWY 2			KIXA	ROANOKE RAPIDS	NC (US)
IAP	VOR/DME RWY 2		3	KIXA	ROANOKE RAPIDS	NC (US)
IAP	ILS OR LOC RWY 4		2	KRWI	ROCKY MOUNT	NC (US)
IAP	VOR/DME RWY 22		2	KRWI	ROCKY MOUNT	NC (US)
IAP	ILS OR LOC RWY 3			KJNX	SMITHFIELD	NC (US)
IAP	NDB RWY 27			KETC	TARBORO	NC (US)
IAP	VOR/DME OR GPS RWY 27		1	KETC	TARBORO	NC (US)
IAP	LOC RWY 5			KOCW	WASHINGTON	NC (US)
IAP	NDB RWY 21			KMCZ	WILLIAMSTON	NC (US)
IAP	RNAV (GPS) RWY 21			KMCZ	WILLIAMSTON	NC (US)
STAR	NASCR			KJQF	CONCORD	NC (US)
STAR	ARGAL			KRDU	RALEIGH/DURHAM	NC (US)
STAR	BLOGS (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)
STAR	BRADE			KRDU	RALEIGH/DURHAM	NC (US)
STAR	ZODAS (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)
STAR	DRONE			KORF	NORFOLK	VA (US)

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

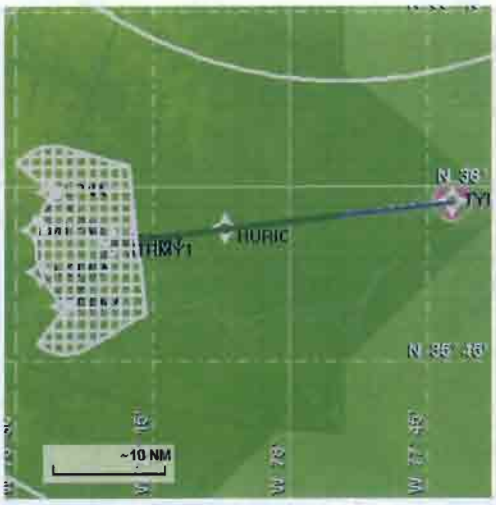
COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
1. UPDATED FACILITY COORDINATES FROM 355836.36N/0774213.51W TO 355836.20N/0774213.43W.

DEVELOPED BY:	**DATE:** 07/11/2012	**OFFICE:** AJV-352	**NAME:** DAVID SAUER
APPROVED BY:	**DATE:**	**OFFICE:** AJV-352	**NAME:** DARRYEL ADAMS
	SIGNATURE:		

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



Name:	Dennis Osterhage
Project Name:	KRDU RNAV SIDS
Output File:	KRDU HURIC1 SID STRMY TYI 20120717_0851
Procedure Name:	HURIC1
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	7/17/2012 8:51:47 AM
Input File:	KRDU HURIC1 SID PNA_STRMY_HURIC_TYI CCW 20120717_0839.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	?
Comms	?
TERPS	?

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N 36° 20'
N 36° 10'
N 36°
N 35° 50'
N 35° 40'
N 35° 30'
W 78° 50'
W 78° 40'
W 78° 30'
W 78° 20'
W 78° 10'
TYI
HURIC
~10 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
STRMY	WP	N 35° 55' 7.67" W 78° 19' 11.10"	4000.0	VNAV	180.0	Fly Over	TF
LPNA	WP	N 35° 59' 28.56" W 78° 25' 56.89"	4000.0	VNAV	180.0	Fly By	TF
M1PNA	WP	N 35° 56' 8.58" W 78° 27' 42.79"	4000.0	VNAV	180.0	Fly By	TF
M2PNA	WP	N 35° 52' 32.35" W 78° 27' 11.51"	4000.0	VNAV	180.0	Fly By	TF
RPNA	WP	N 35° 49' 37.77" W 78° 24' 31.69"	4000.0	VNAV	180.0	Fly By	TF
STRMY1	WP	N 35° 55' 7.67" W 78° 19' 11.10"	4000.0	VNAV	180.0	Fly By	TF
HURIC	WP	N 35° 56' 17.69" W 78° 6' 57.34"	6000.0	VNAV	180.0	Fly By	TF
TYI	WP	N 35° 58' 36.20" W 77° 42' 13.43"	10042.1	VNAV	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Departure with PNA
Selected Airport: KRDU
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

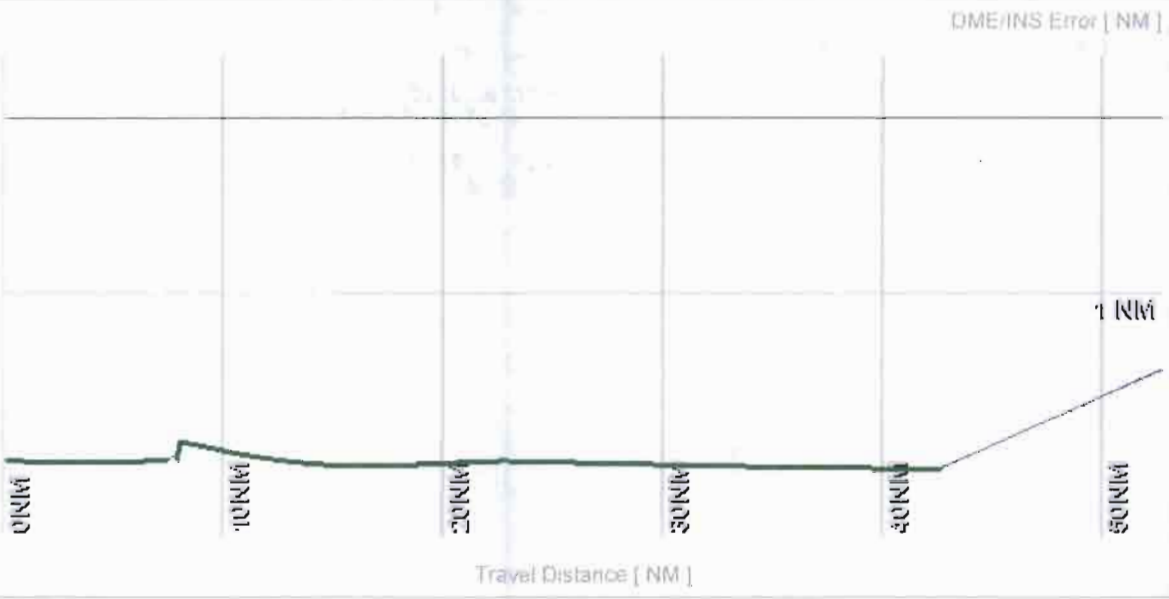
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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

Total Number of DMEs Used: 3

Maximum DME Error: 0.690 NM.

No Critical DMEs were found.

Available DMEs: LVL, RDU, TYI, FAY



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	LVL	N 36° 49' 4.93" W 77° 54' 10.69" W 8	L + ESV	User	NO	1.671	Enabled	79.7 %	79.7 %
2	TYI	N 35° 58' 36.36" W 77° 42' 13.51" W 5	L	Database	NO	0.872	Enabled	51.3 %	51.3 %
3	RDU	N 35° 52' 21.08" W 78° 47' 0.03" W 4	H	Database	NO	0.690	Enabled	28.4 %	28.4 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	LVL	TYI	RDU			
5.1	LVL	TYI	RDU			
8.9	LVL	RDU				
12.6	LVL	RDU	TYI			
14.8	LVL	RDU	TYI			
21.9	LVL	RDU	TYI	FAY		
32.6	LVL	RDU	TYI	FAY		

Inertial Drift Segments

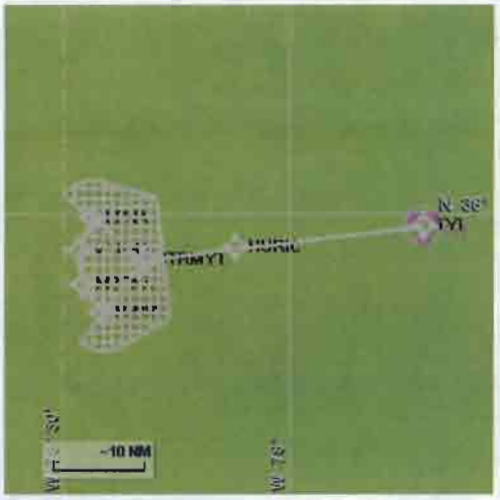
#	Start Location	End Location	Length [NM]
1	N 35° 58' 3.21" W 78° 26' 39.86"	N 35° 57' 39.66" W 78° 26' 55.21"	0.4
	VOR: RDU	Available from N 35° 58' 3.21" W 78° 26' 39.86" to N 35° 57' 39.66" W 78° 26' 55.21"	
	VOR: TYI	Available from N 35° 58' 3.21" W 78° 26' 39.86" to N 35° 57' 39.66" W 78° 26' 55.21"	
2	N 35° 57' 27.03" W 77° 54' 41.74"	N 35° 58' 36.05" W 77° 42' 15.08"	10.2
	VOR: ISO	Available from N 35° 57' 27.03" W 77° 54' 41.74" to N 35° 58' 36.05" W 77° 42' 15.08"	
	VOR: TYI	Available from N 35° 57' 27.03" W 77° 54' 41.74" to N 35° 58' 36.05" W 77° 42' 15.08"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	LVL	N 36° 49' 4.93" W 77° 54' 10.69" W 8	L	350.0	112.90	LVL	Used
		ESV:	Bearing [True]: 180.0° to 220.0° Bearing [Mag]: 188.0° to 228.0°		Arc Distance: Out to 70.0 NM Altitude: 4000.0 to 12000.0 Ft.		
2	FAY	N 34° 59' 7.98" W 78° 52' 30.23" W 4	L	179.2	108.80	FAY	Not Used
		ESV:	Bearing [True]: 20.0° to 46.0° Bearing [Mag]: 24.0° to 50.0°		Arc Distance: Out to 85.0 NM Altitude: 5000.0 to 12000.0 Ft.		



Name:	Dennis Osterhage
Project Name:	KRDU HURIC1 SID PNA GRID ASSESSMENT 20120307
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	3/7/2012 6:21:15 PM
Input File:	Grid Area Assessment
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Grid ✔ DME/DME Grid Analysis

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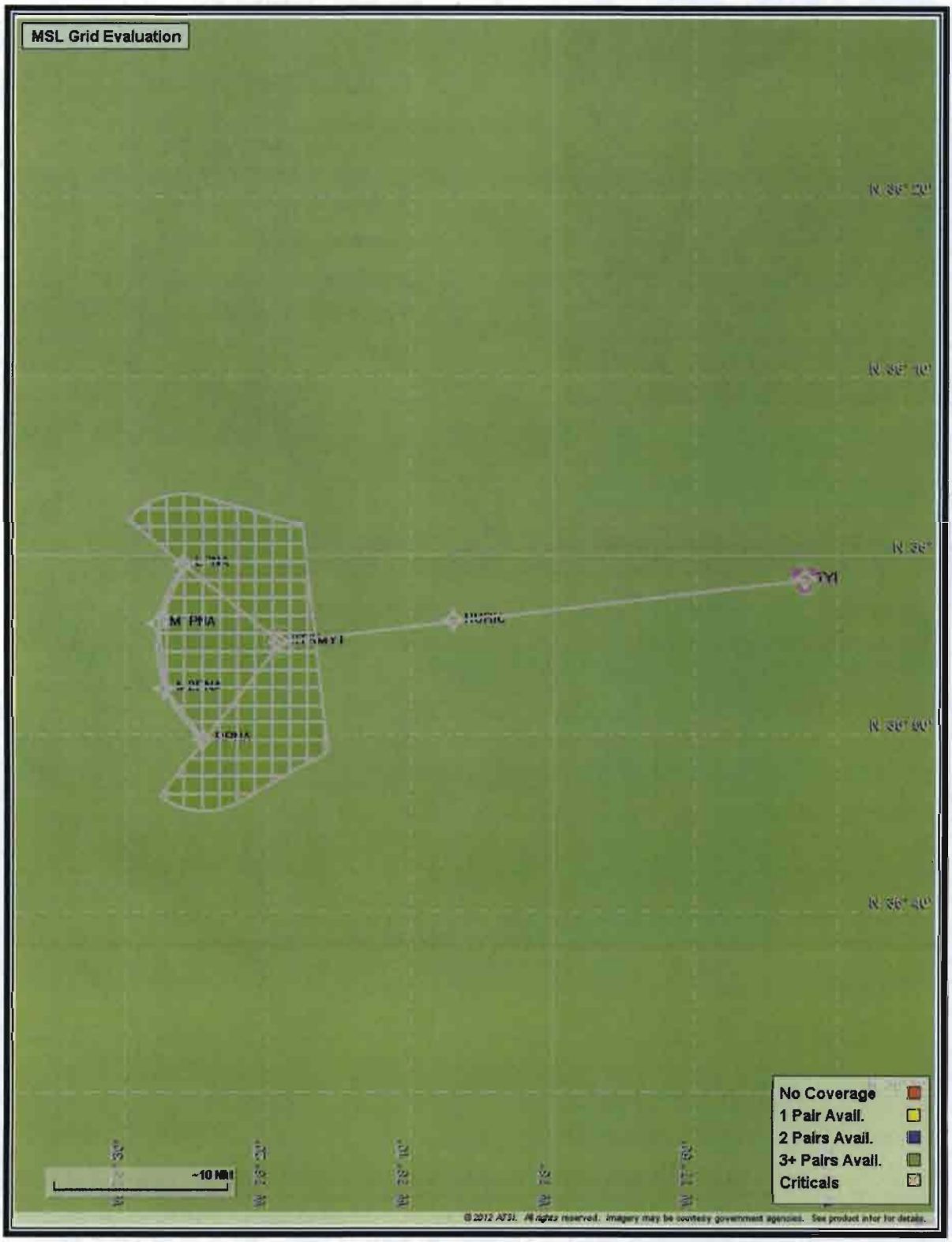
MSL Grid Evaluation
No Coverage
1 Pair Avail.
2 Pairs Avail.
3+ Pairs Avail.
Criticals
~10 NM

DME/DME Grid Analysis

Return To Summary

Coverage Exists

Settings:

Polygon Grid Definition:

1	Lat: N 35° 59' 28.70" Lon: W 78° 25' 56.76"	21	Lat: N 35° 45' 43.58" Lon: W 78° 25' 37.66"
2	Lat: N 36° 1' 57.90" Lon: W 78° 29' 48.68"	22	Lat: N 35° 45' 51.85" Lon: W 78° 26' 12.20"
3	Lat: N 36° 2' 19.76" Lon: W 78° 29' 24.57"	23	Lat: N 35° 46' 3.49" Lon: W 78° 26' 45.26"
4	Lat: N 36° 2' 39.06" Lon: W 78° 28' 57.36"	24	Lat: N 35° 46' 18.33" Lon: W 78° 27' 16.33"
5	Lat: N 36° 2' 55.53" Lon: W 78° 28' 27.45"	25	Lat: N 35° 46' 29.45" Lon: W 78° 27' 35.03"
6	Lat: N 36° 3' 8.91" Lon: W 78° 27' 55.29"	26	Lat: N 35° 49' 37.88" Lon: W 78° 24' 31.86"
7	Lat: N 36° 3' 19.01" Lon: W 78° 27' 21.36"	27	Lat: N 35° 49' 37.88" Lon: W 78° 24' 31.86"
8	Lat: N 36° 3' 25.67" Lon: W 78° 26' 46.16"	28	Lat: N 35° 50' 12.13" Lon: W 78° 25' 18.85"
9	Lat: N 36° 3' 28.79" Lon: W 78° 26' 10.22"	29	Lat: N 35° 50' 50.79" Lon: W 78° 26' 0.37"
10	Lat: N 36° 3' 28.34" Lon: W 78° 25' 34.09"	30	Lat: N 35° 51' 33.28" Lon: W 78° 26' 35.81"
11	Lat: N 36° 3' 24.30" Lon: W 78° 24' 58.29"	31	Lat: N 35° 52' 18.96" Lon: W 78° 27' 4.63"
12	Lat: N 36° 3' 19.85" Lon: W 78° 24' 35.71"	32	Lat: N 35° 53' 7.16" Lon: W 78° 27' 26.41"
13	Lat: N 36° 1' 44.46" Lon: W 78° 17' 40.15"	33	Lat: N 35° 53' 57.17" Lon: W 78° 27' 40.81"
14	Lat: N 35° 49' 0.76" Lon: W 78° 15' 49.00"	34	Lat: N 35° 54' 48.22" Lon: W 78° 27' 47.62"
15	Lat: N 35° 46' 7.85" Lon: W 78° 22' 8.39"	35	Lat: N 35° 55' 39.57" Lon: W 78° 27' 46.73"
16	Lat: N 35° 45' 55.18" Lon: W 78° 22' 40.87"	36	Lat: N 35° 56' 30.45" Lon: W 78° 27' 38.15"
17	Lat: N 35° 45' 45.82" Lon: W 78° 23' 15.00"	37	Lat: N 35° 57' 20.10" Lon: W 78° 27' 22.00"

DME/DME Grid Analysis (Continued.)

Return To Summary

Coverage Exists

Settings:

Polygon Grid Definition:

18	Lat: N 35° 45' 39.92" Lon: W 78° 23' 50.27"	**38**	Lat: N 35° 58' 7.78" Lon: W 78° 26' 58.53"
19	Lat: N 35° 45' 37.57" Lon: W 78° 24' 26.16"	**39**	Lat: N 35° 58' 52.77" Lon: W 78° 26' 28.07"
20	Lat: N 35° 45' 38.79" Lon: W 78° 25' 2.13"	**40**	Lat: N 35° 59' 28.70" Lon: W 78° 25' 56.75"

Lat Step: 1 NM
Lon Step: 1 NM
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Co-Frequencies: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME and VORTAC
DME Include Angles: 30 to 150
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Maximum Possible ESVs Used
Altitude: 4000.0 Ft. MSL
PNA Import from RDVA-Pro: KRDU PNA STRMY HURIC

DME/DME Grid Analysis (Continued.)

Return To Summary

Maximum Gap: 0.0 NM

Maximum Critical Gap: 0.0 NM

AGL Altitudes	
Min Cell Altitude	3,488.2 Ft.
Max Cell Altitude	3,708.0 Ft.
Mean Cell Altitude	3,617.5 Ft.
Std. Dev. Cell Altitude	49.3 Ft.

Statistics based only on passing cells.

Most Used DMEs: TYI (168), SDZ (168), SBV (168), RDU (168), LVL (168), LIB (168), ISO (168), FAY (168), CVI (168), and ROA (135).