DEPARTURE (GGOV -> GQNN): GGOV (Osvaldo Viera)
NavData Cycle 2014-10 Expired: Friday, 17 October 2014.
Scale: 1:250000 (1 inch = 3.43 naut mi). Printed on 20 Oct 2014

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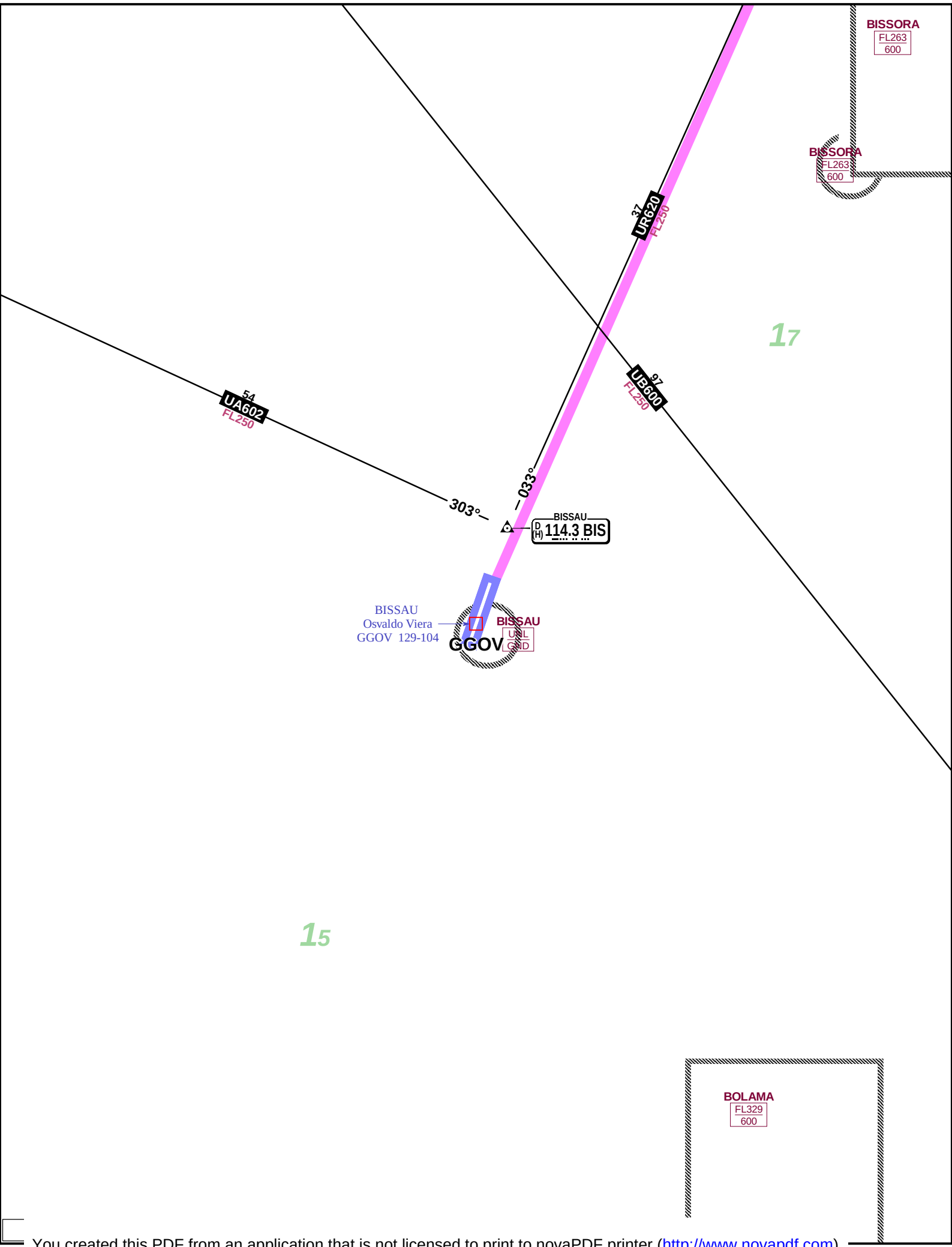
JeppView 3.6.2.0



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DESTINATION (GGOV -> GQNN): GQNN (Nouakchott)
NavData Cycle 2014-10 Expired: Friday, 17 October 2014.
Scale: 1:250000 (1 inch = 3.43 naut mi). Printed on 20 Oct 2014

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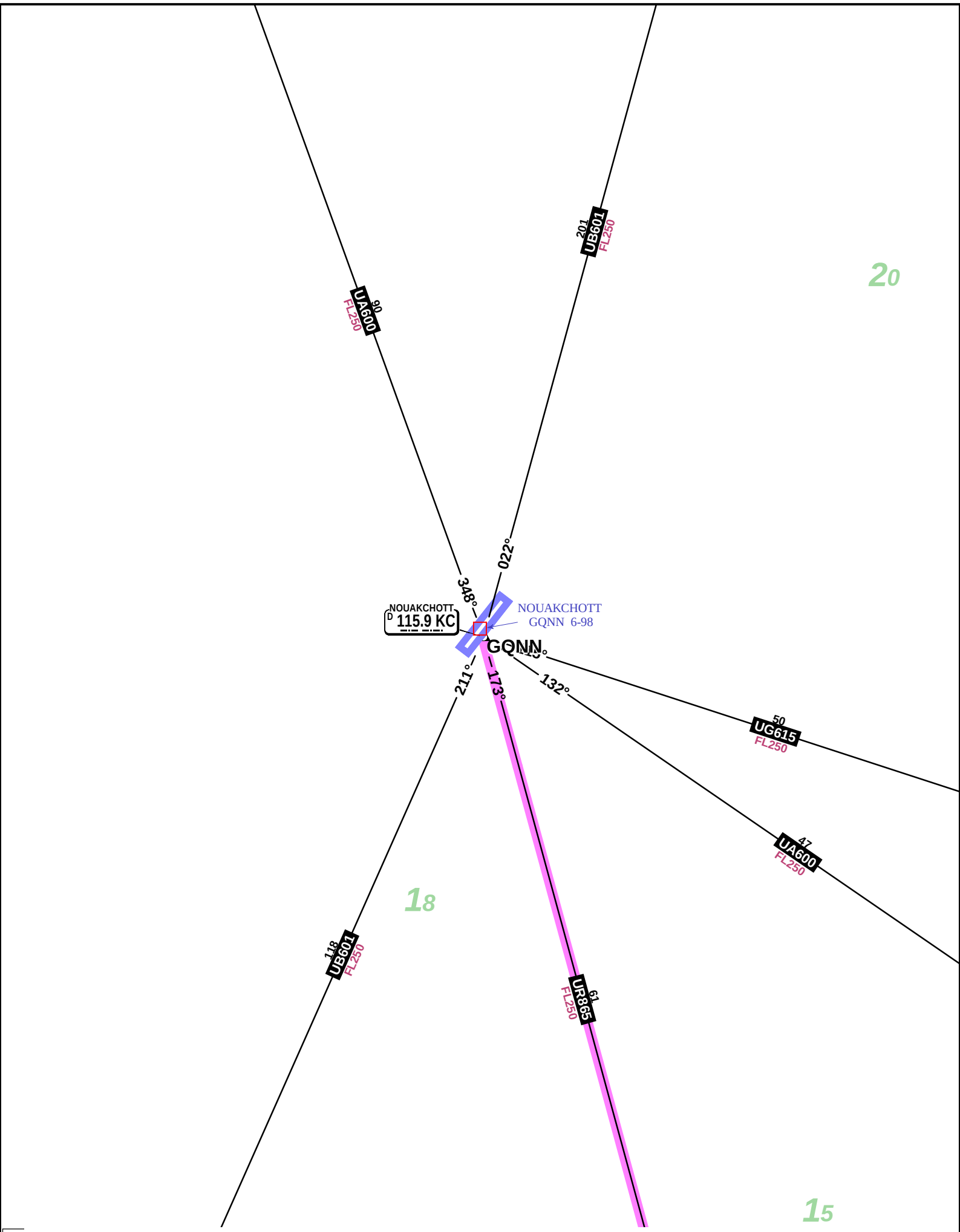

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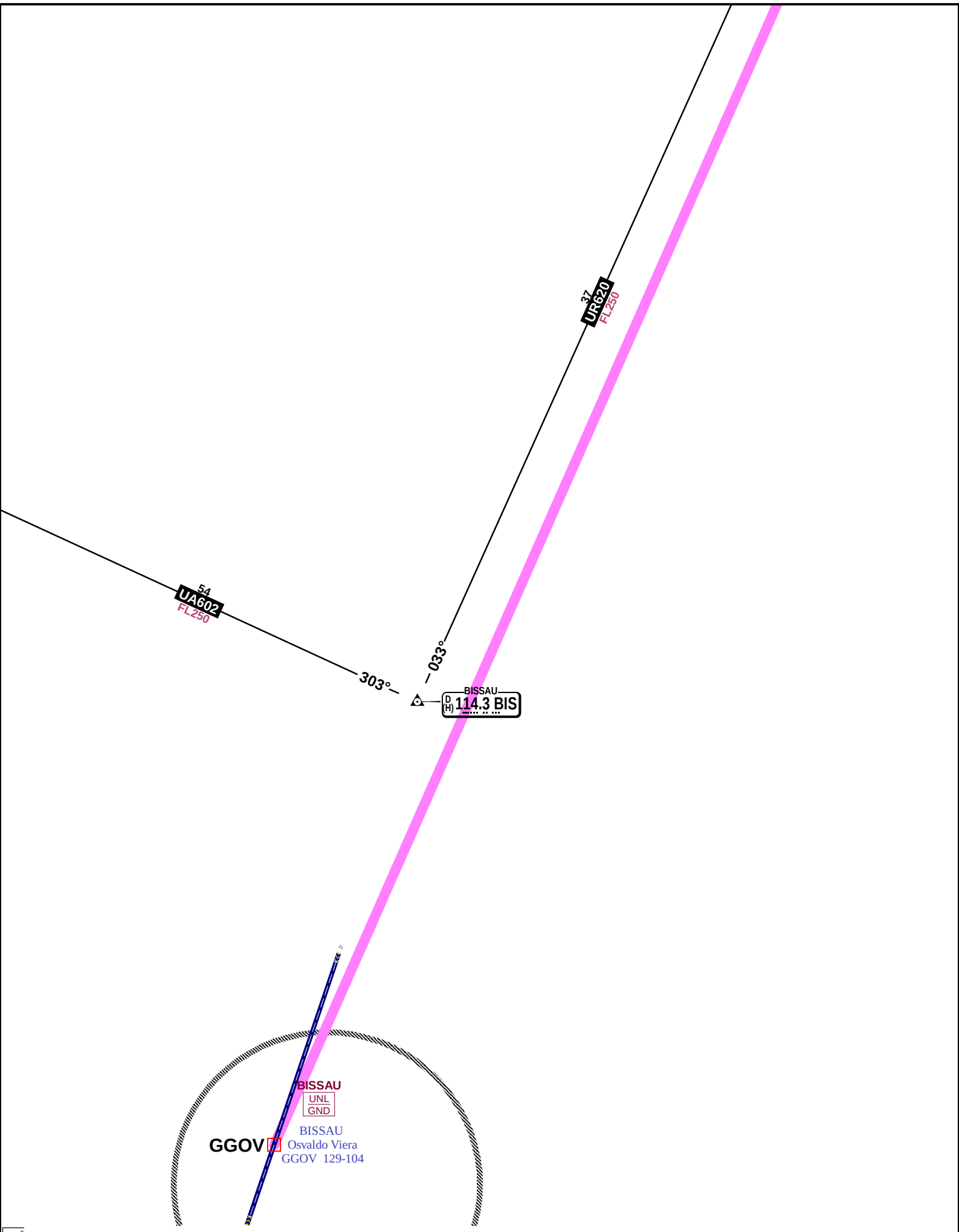

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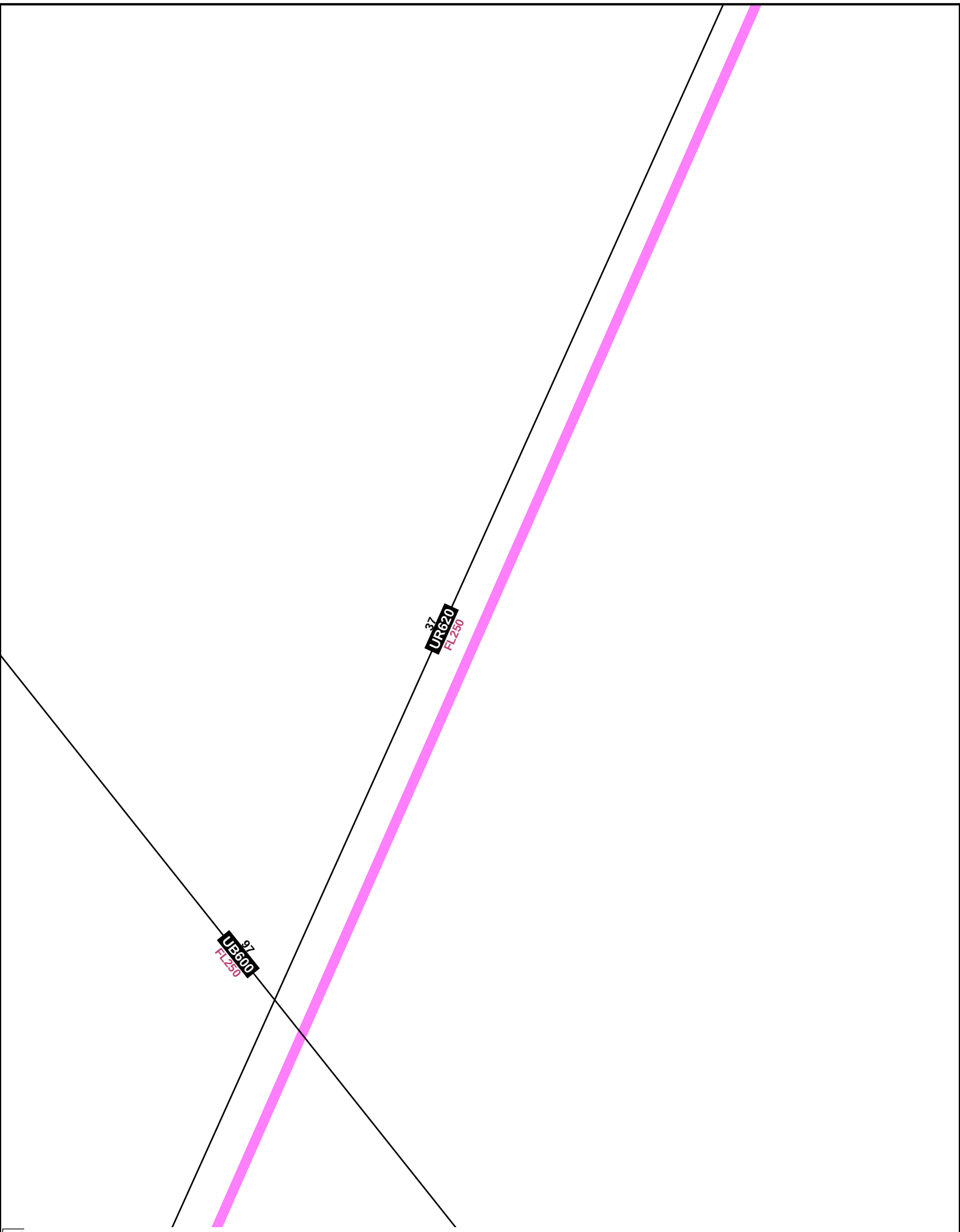

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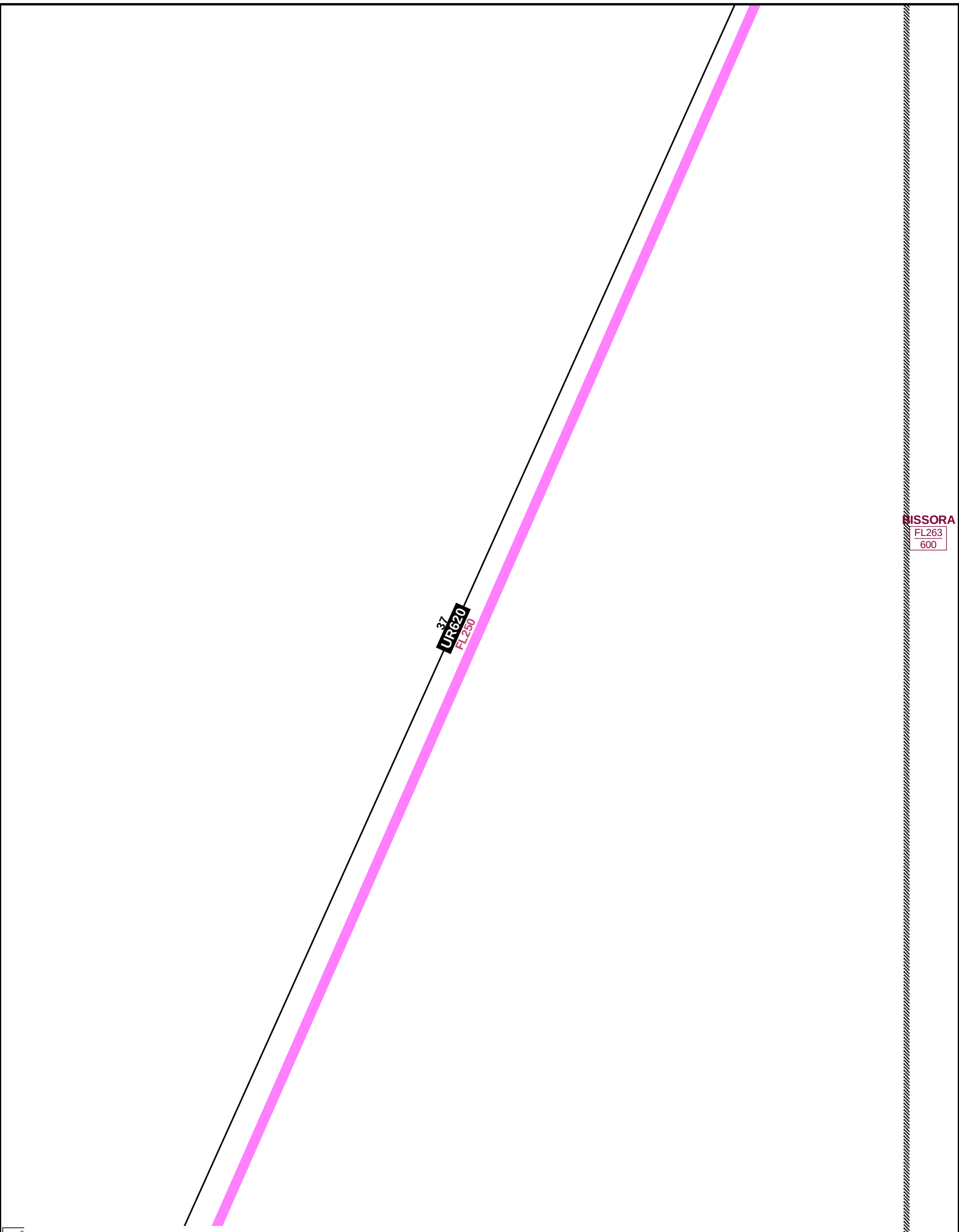

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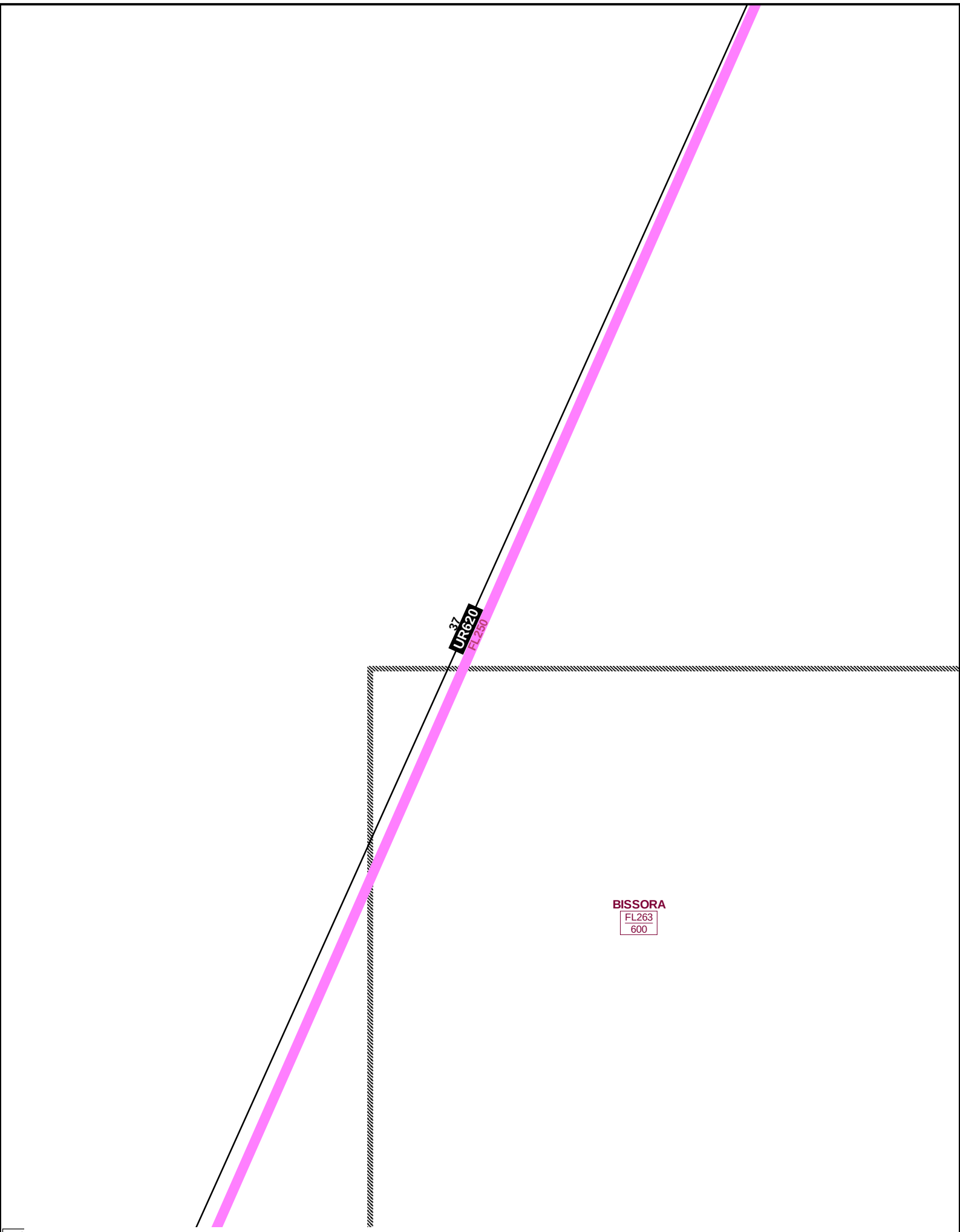

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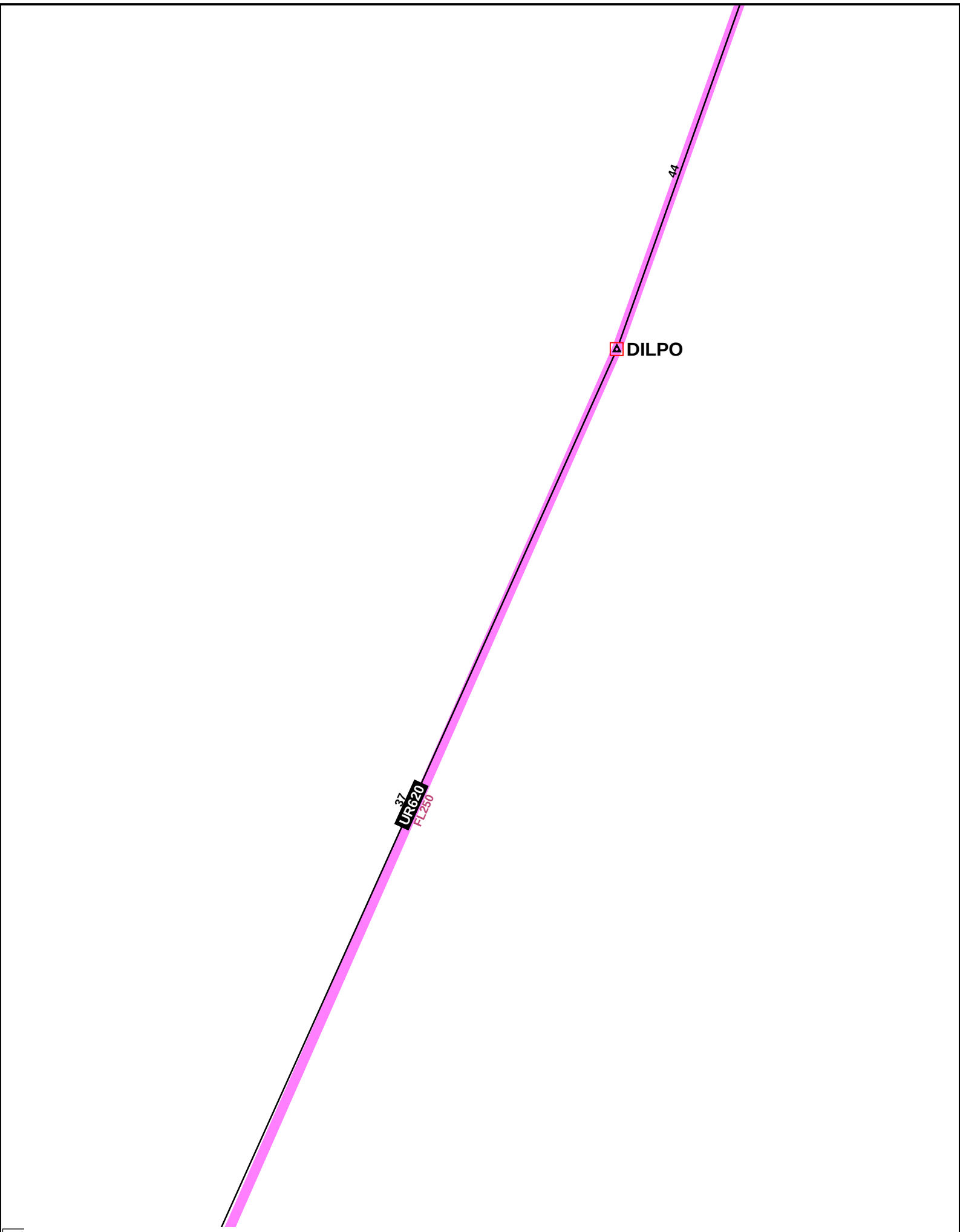

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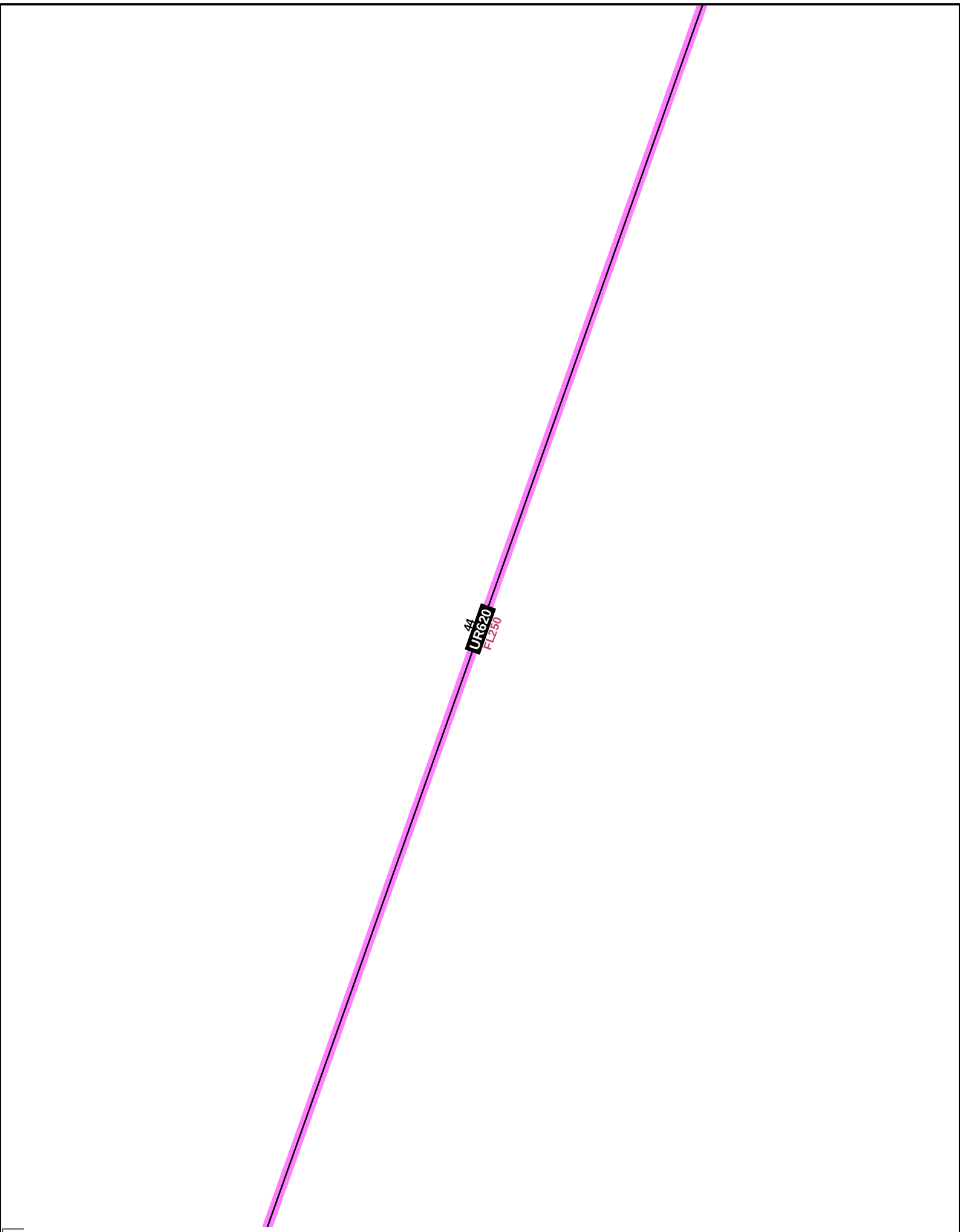

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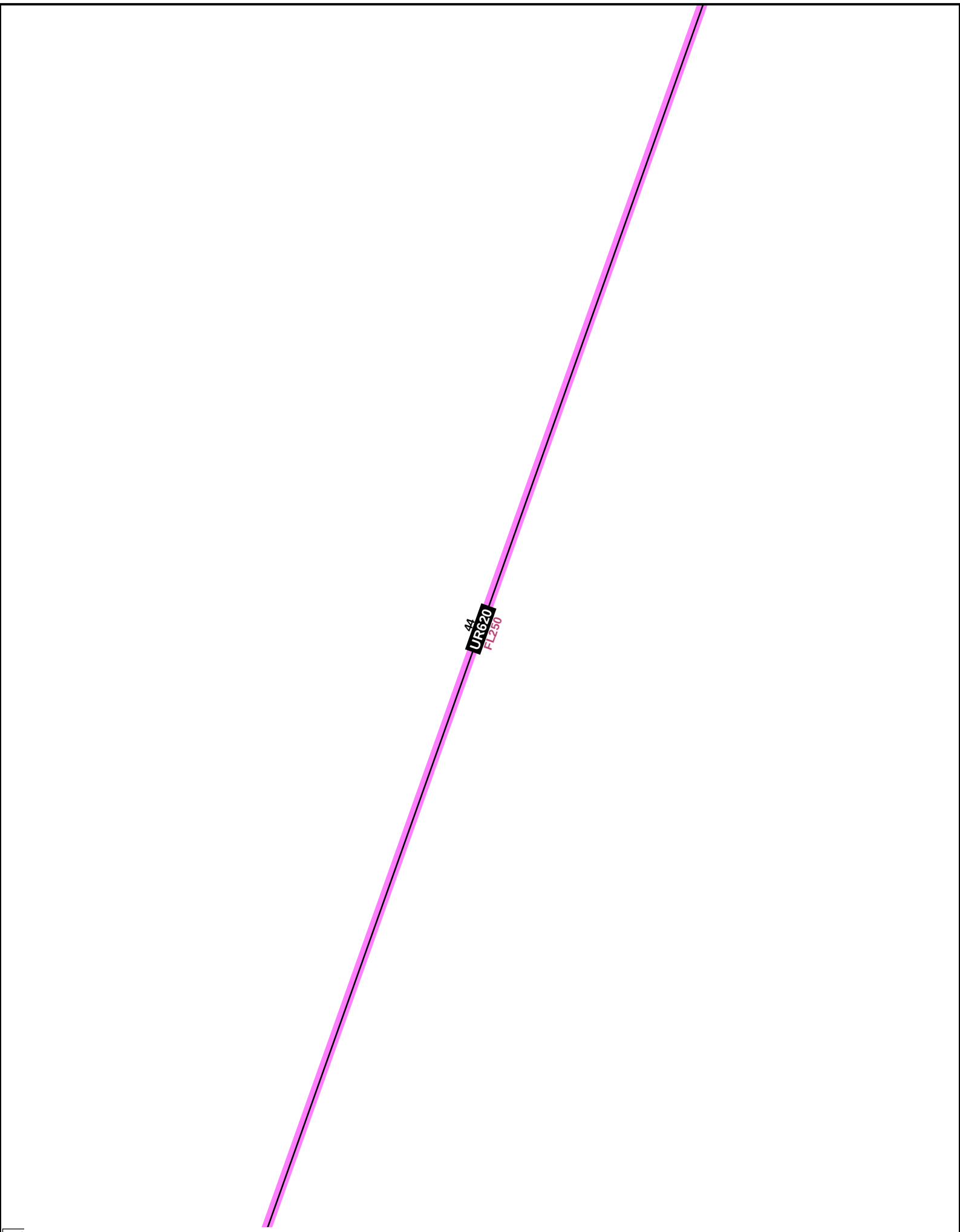

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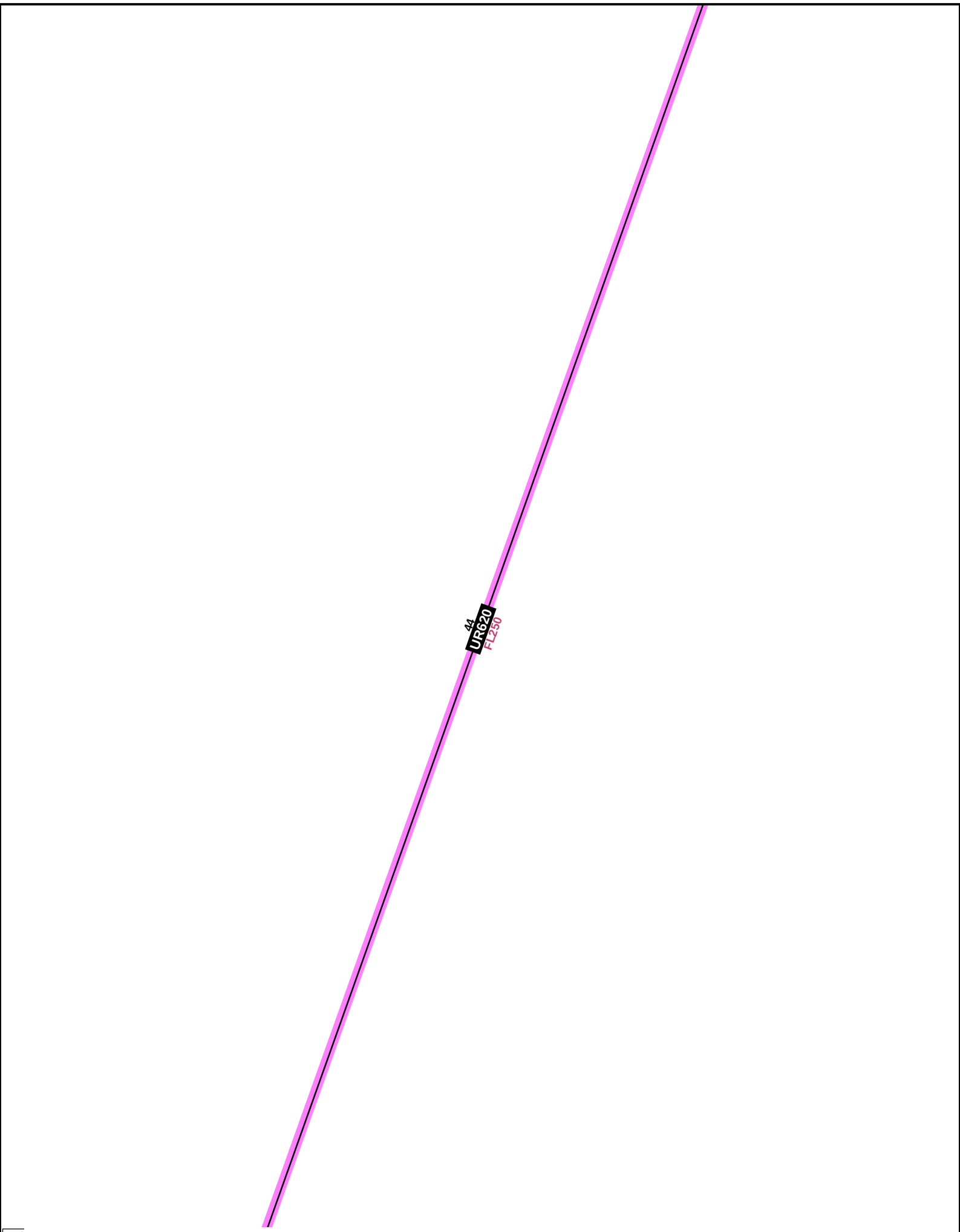

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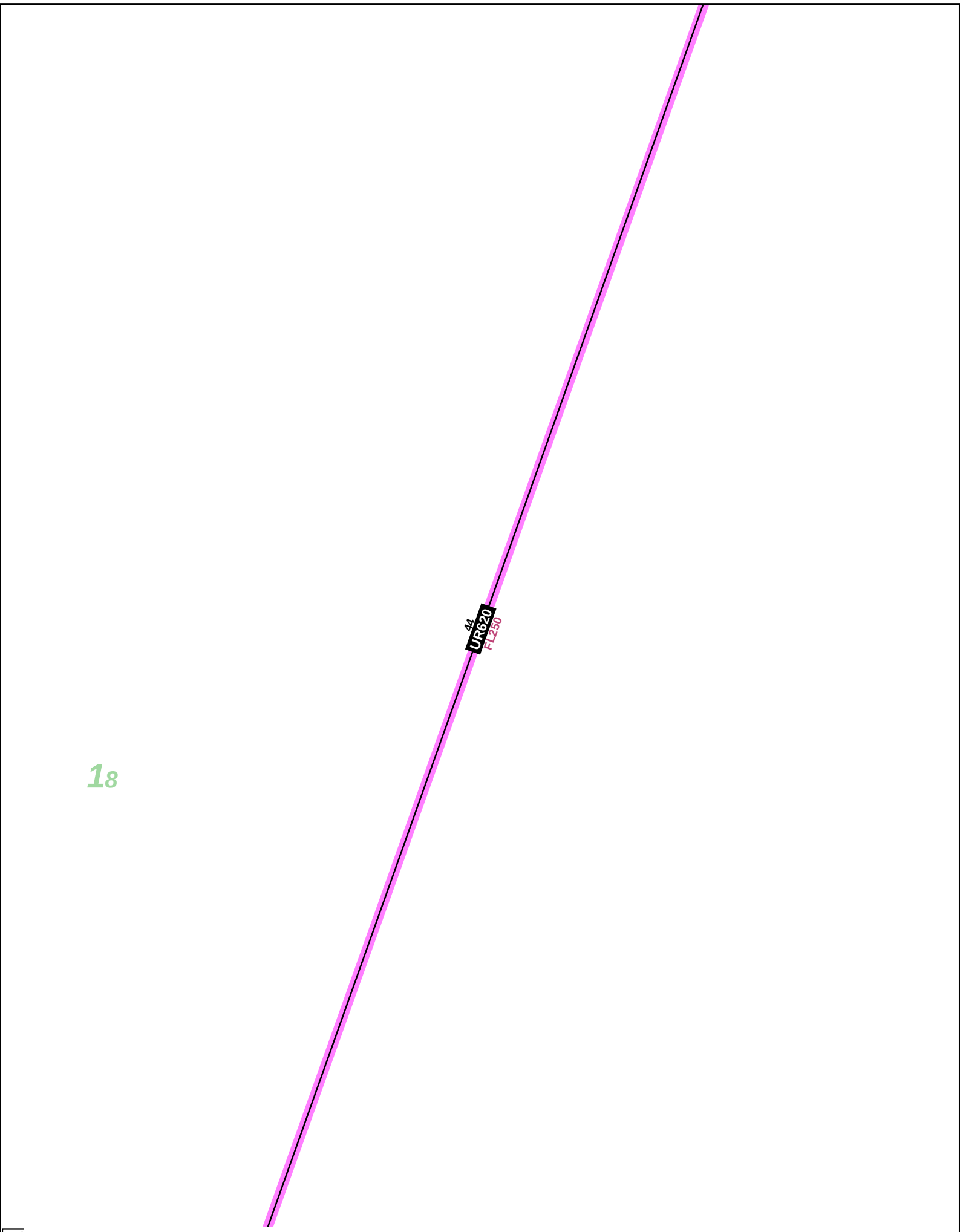

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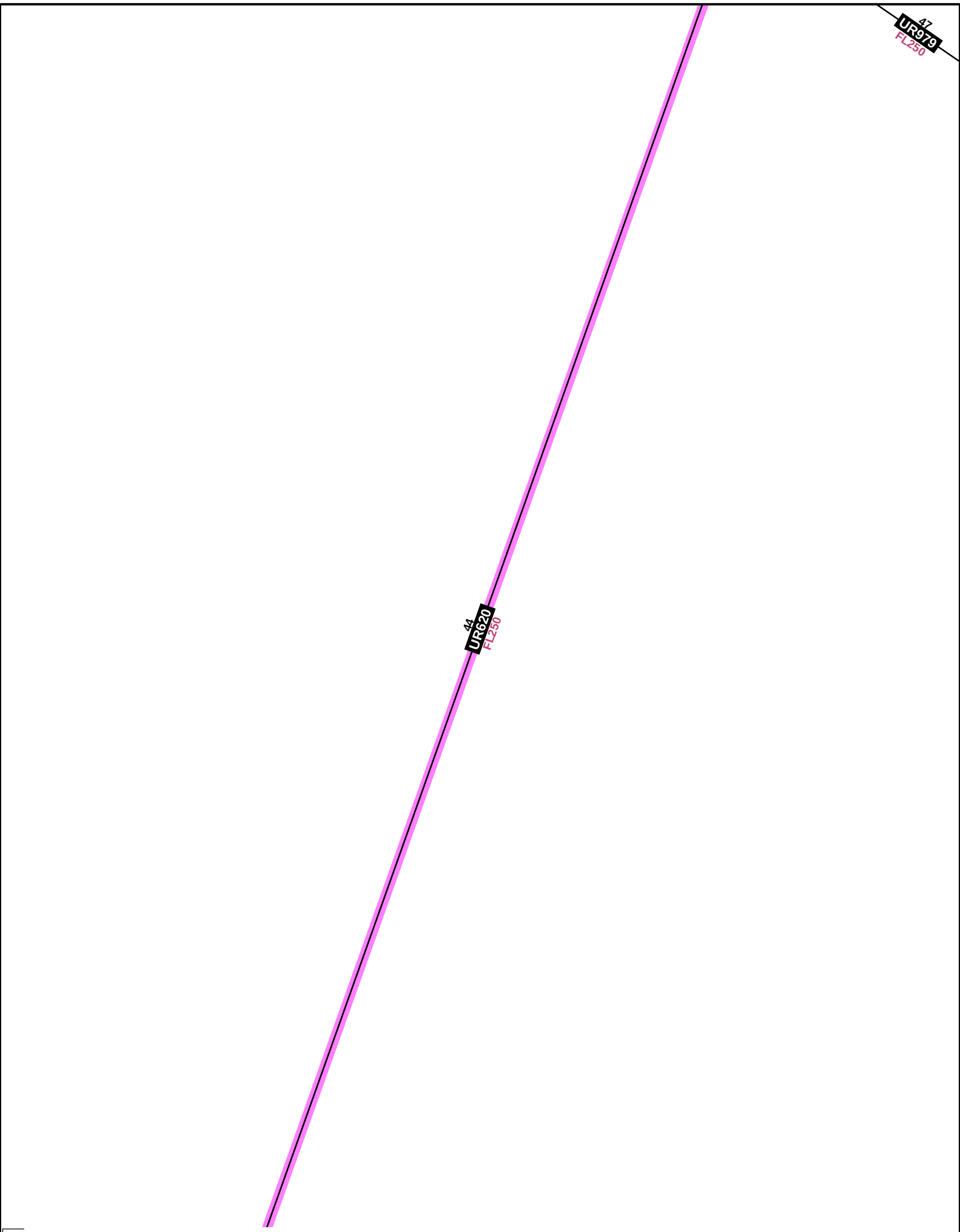

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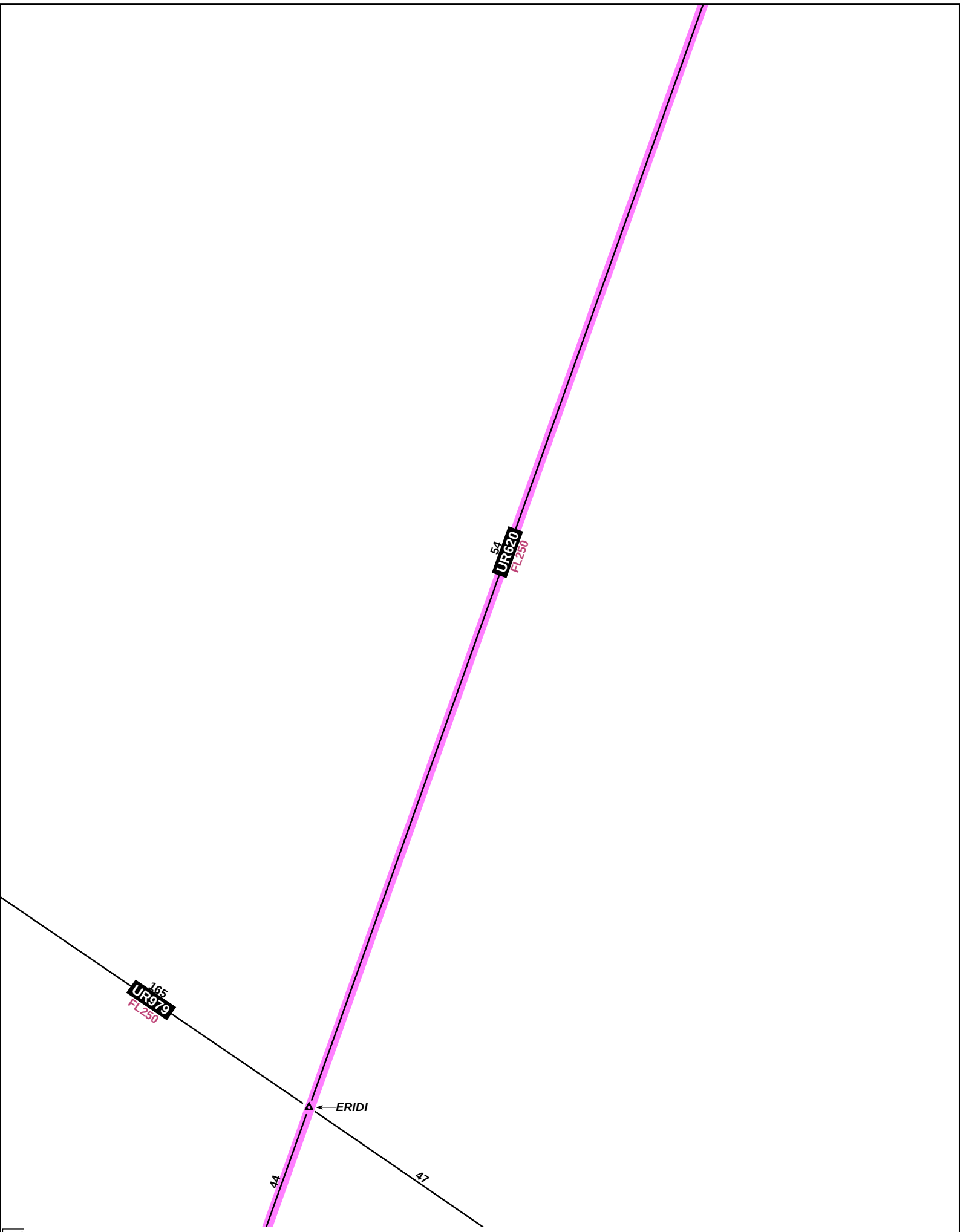

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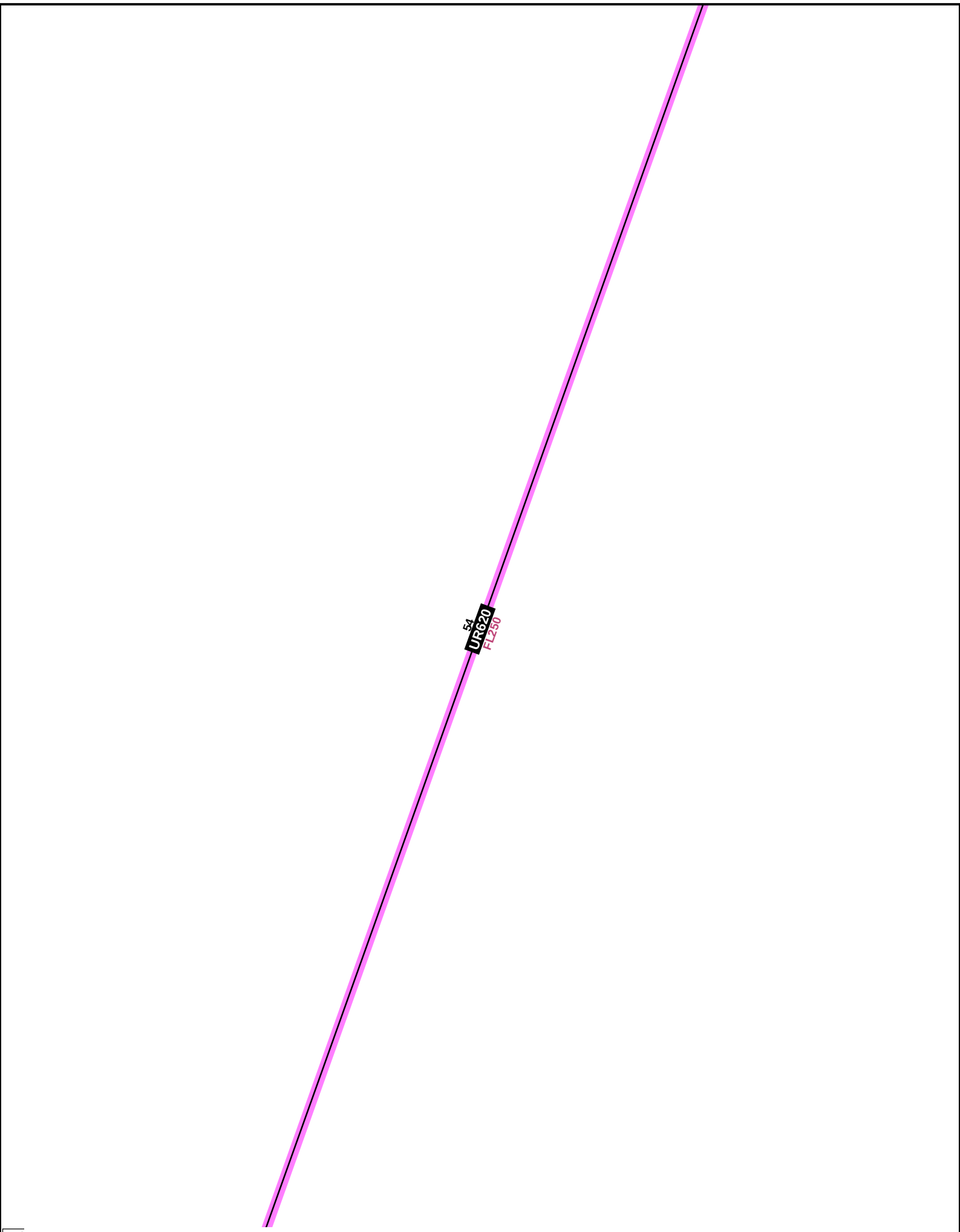

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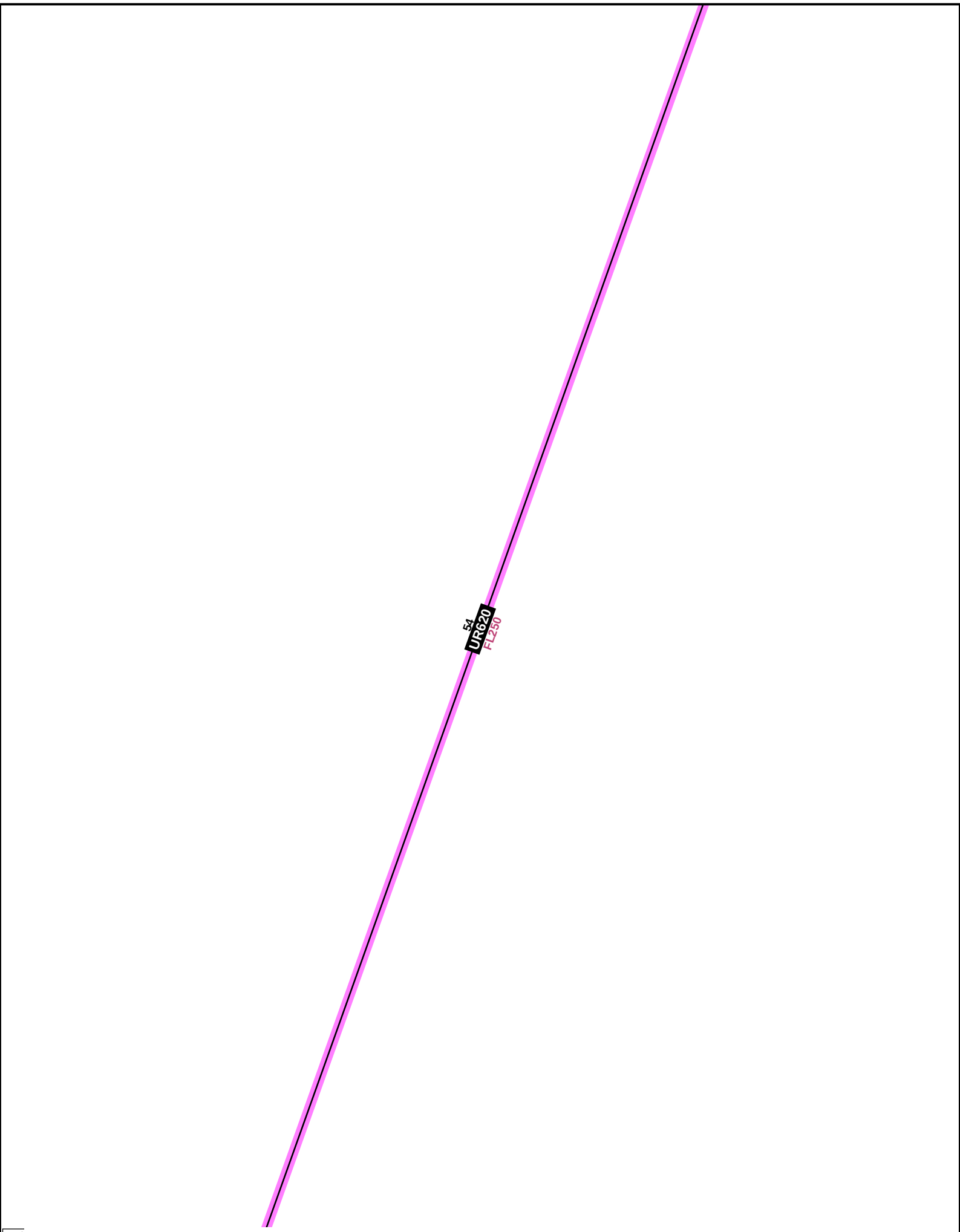

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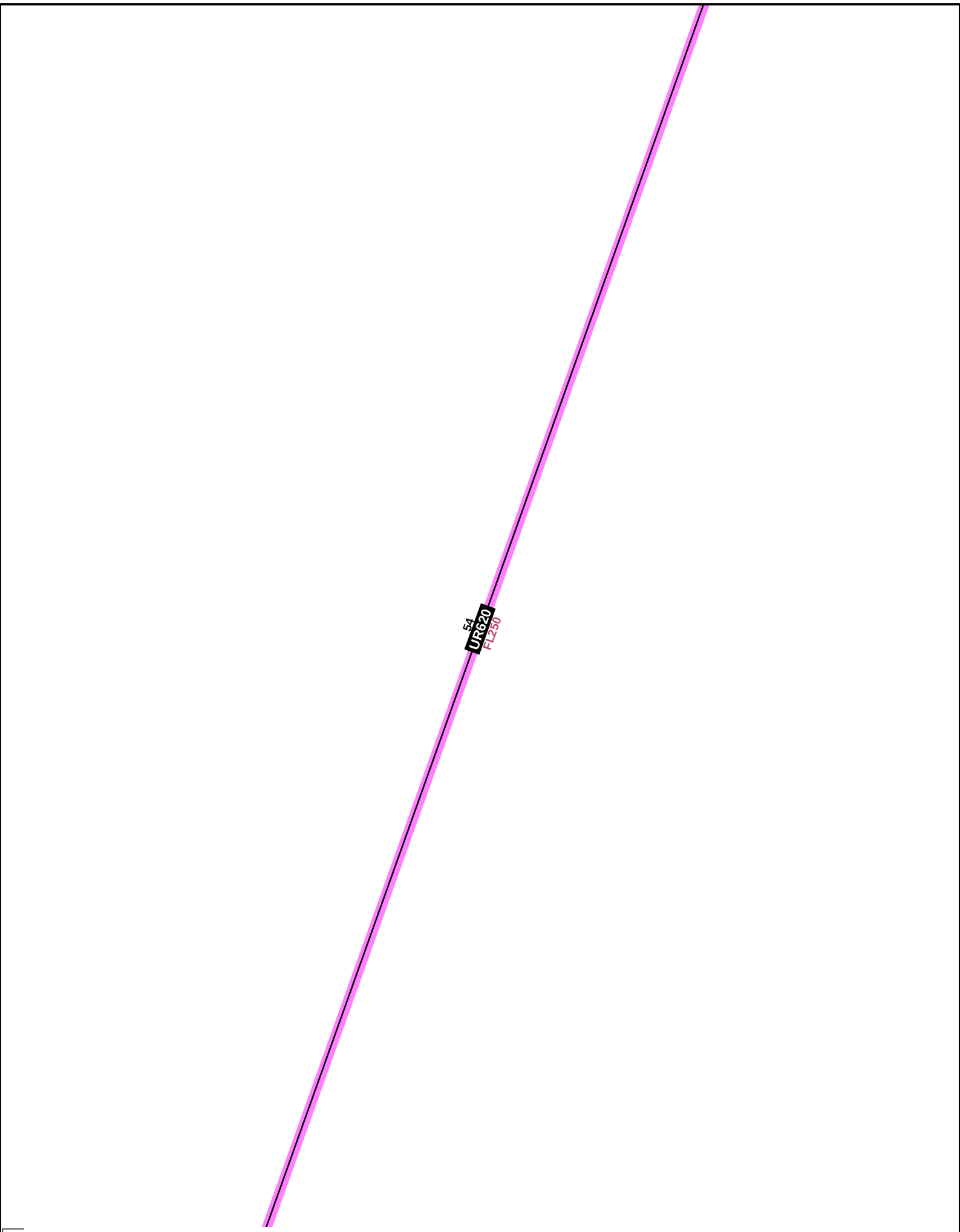

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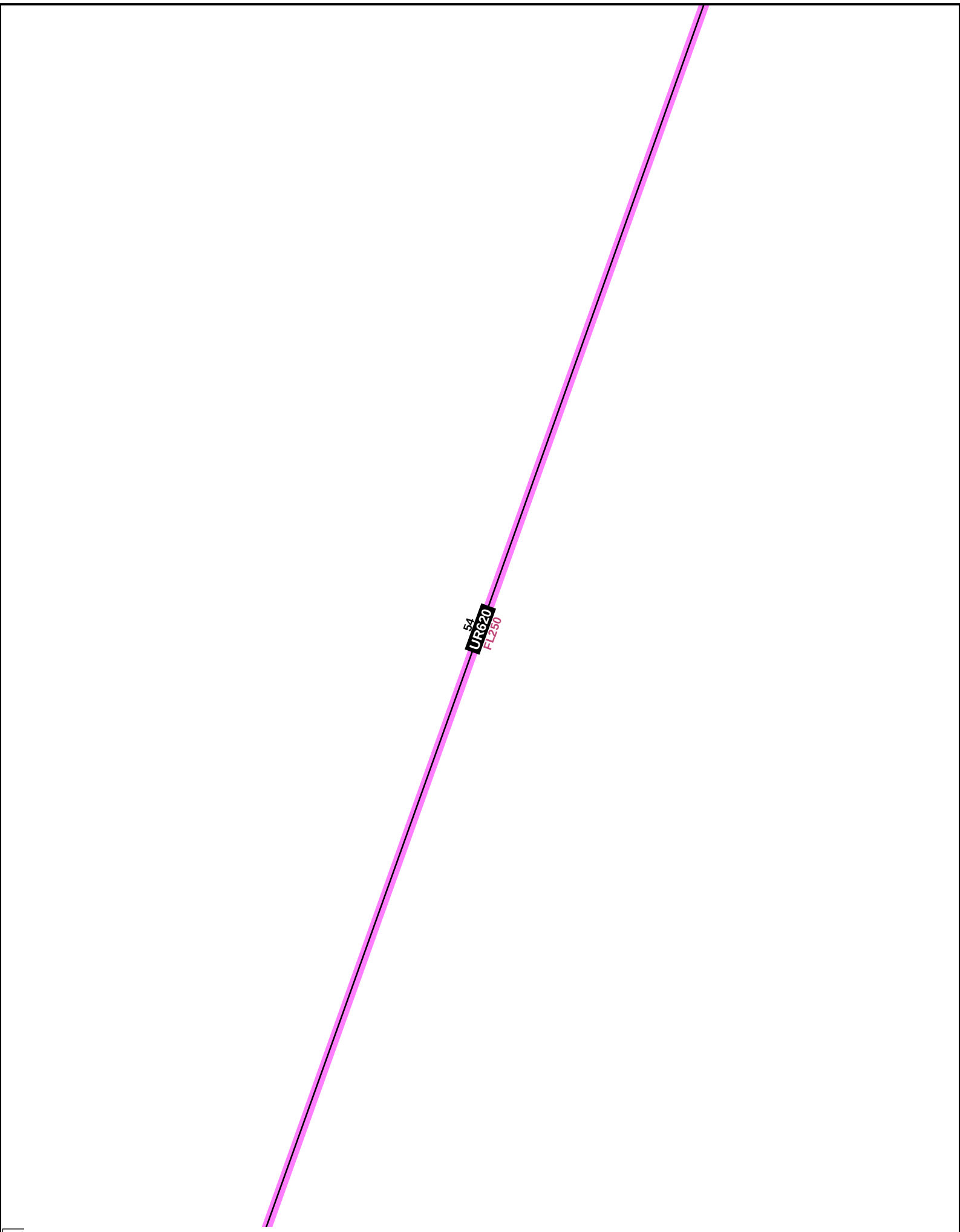

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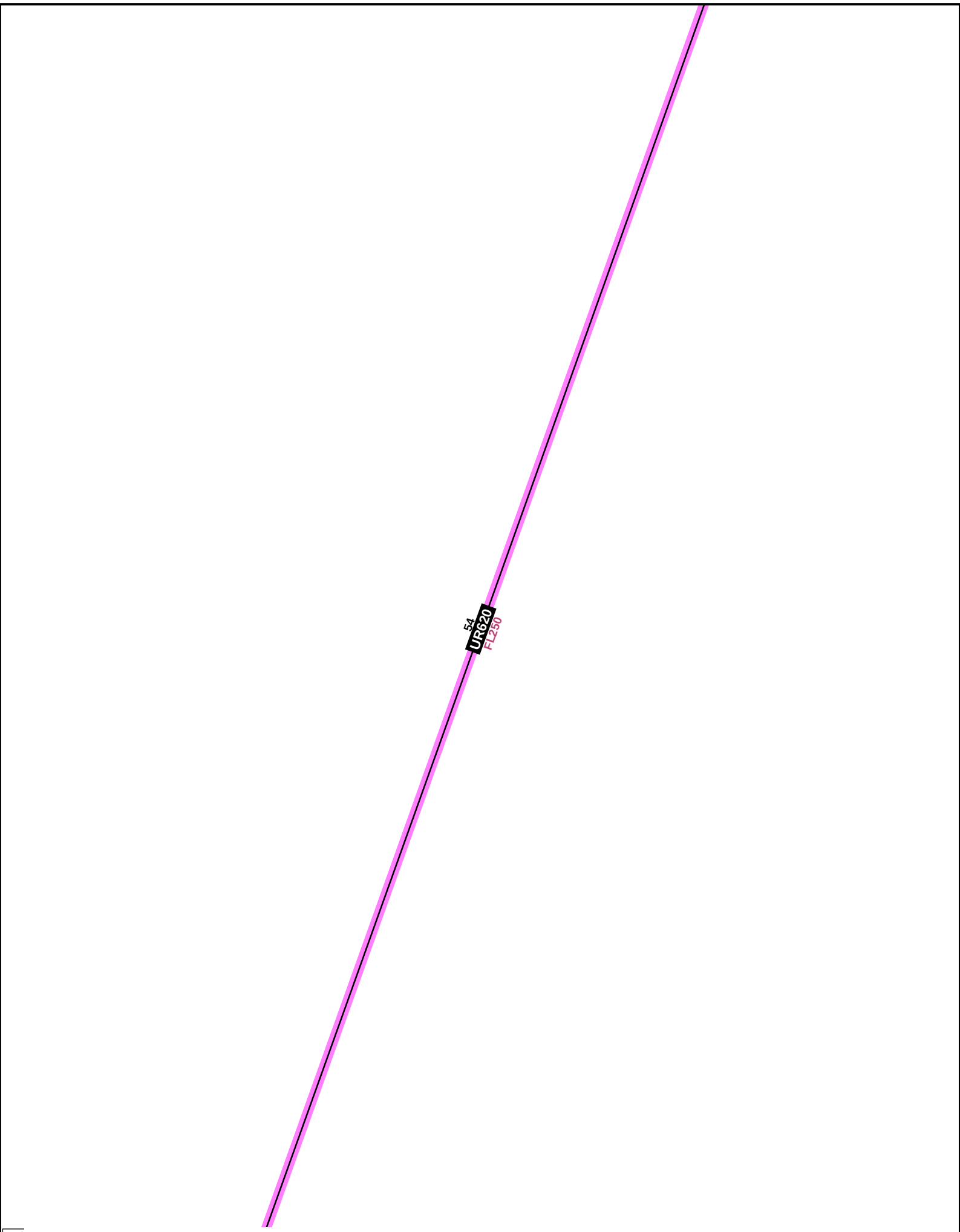

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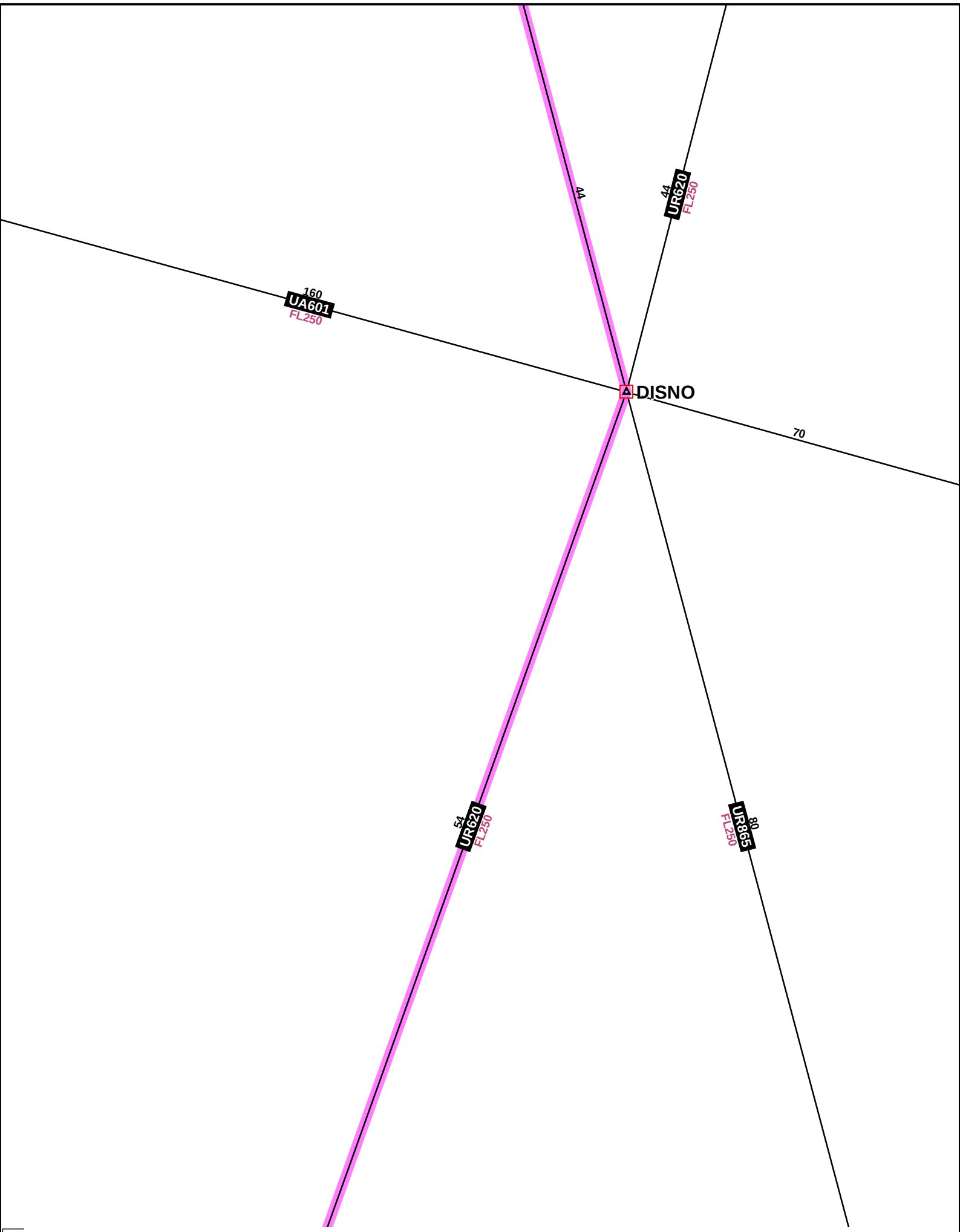

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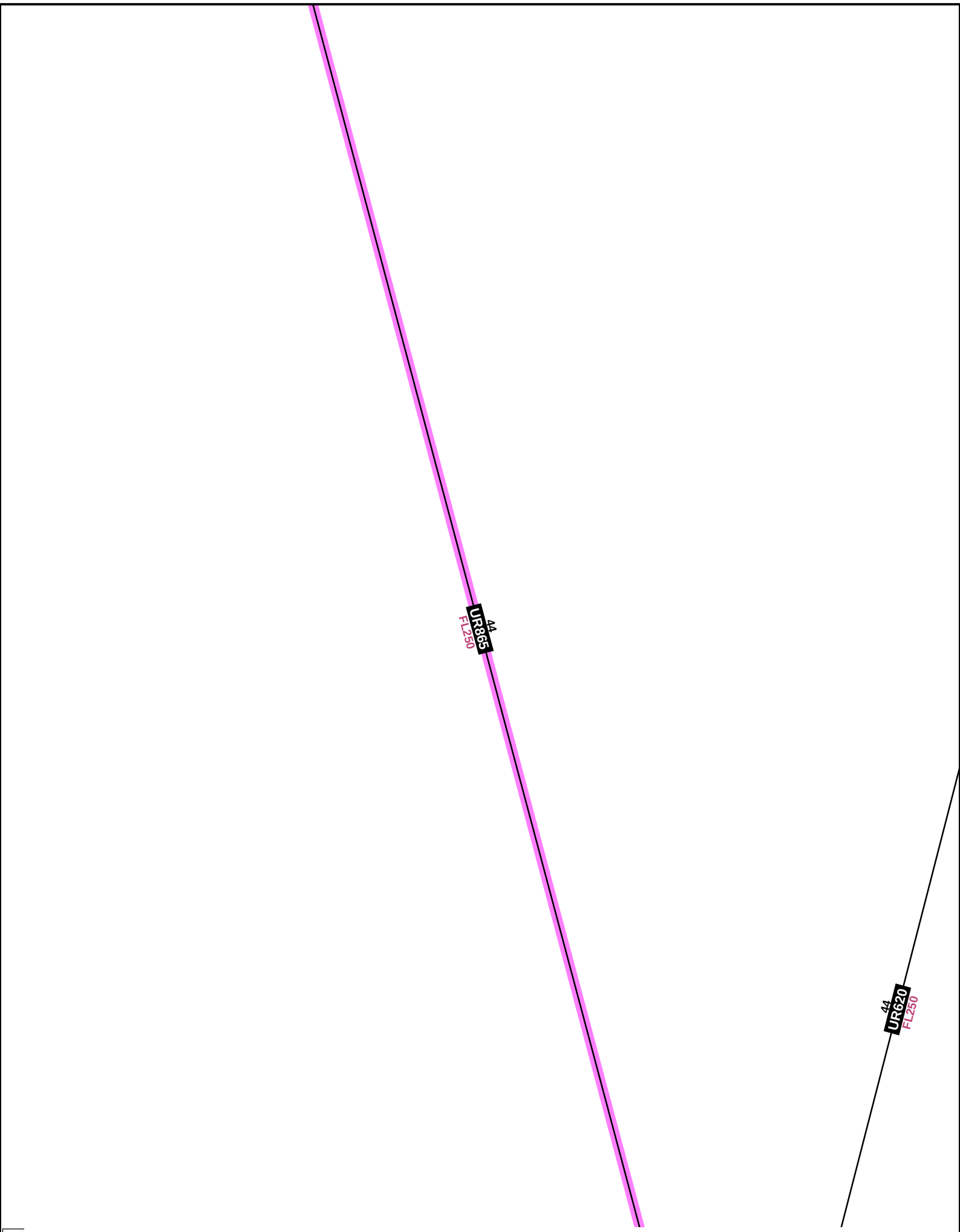

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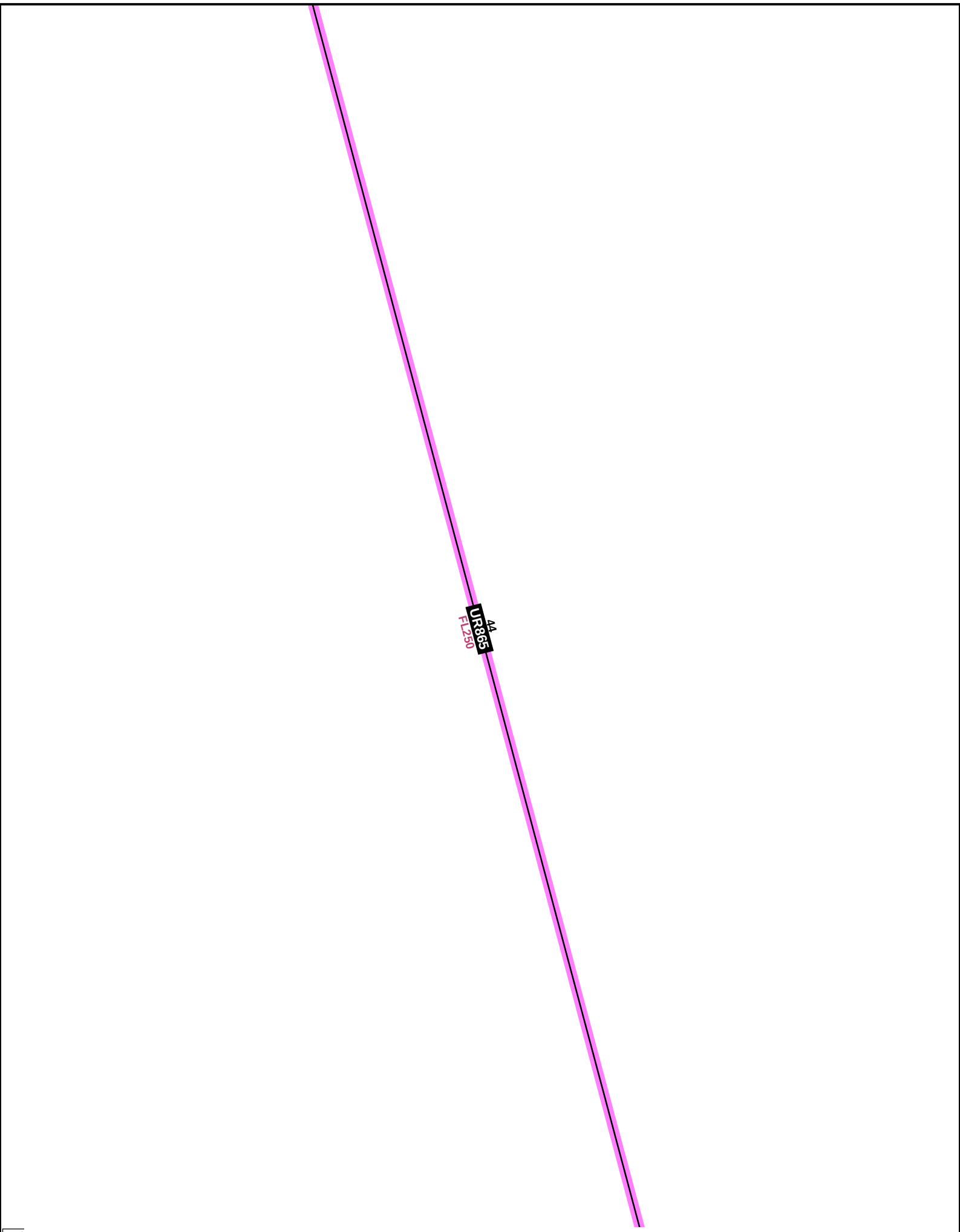

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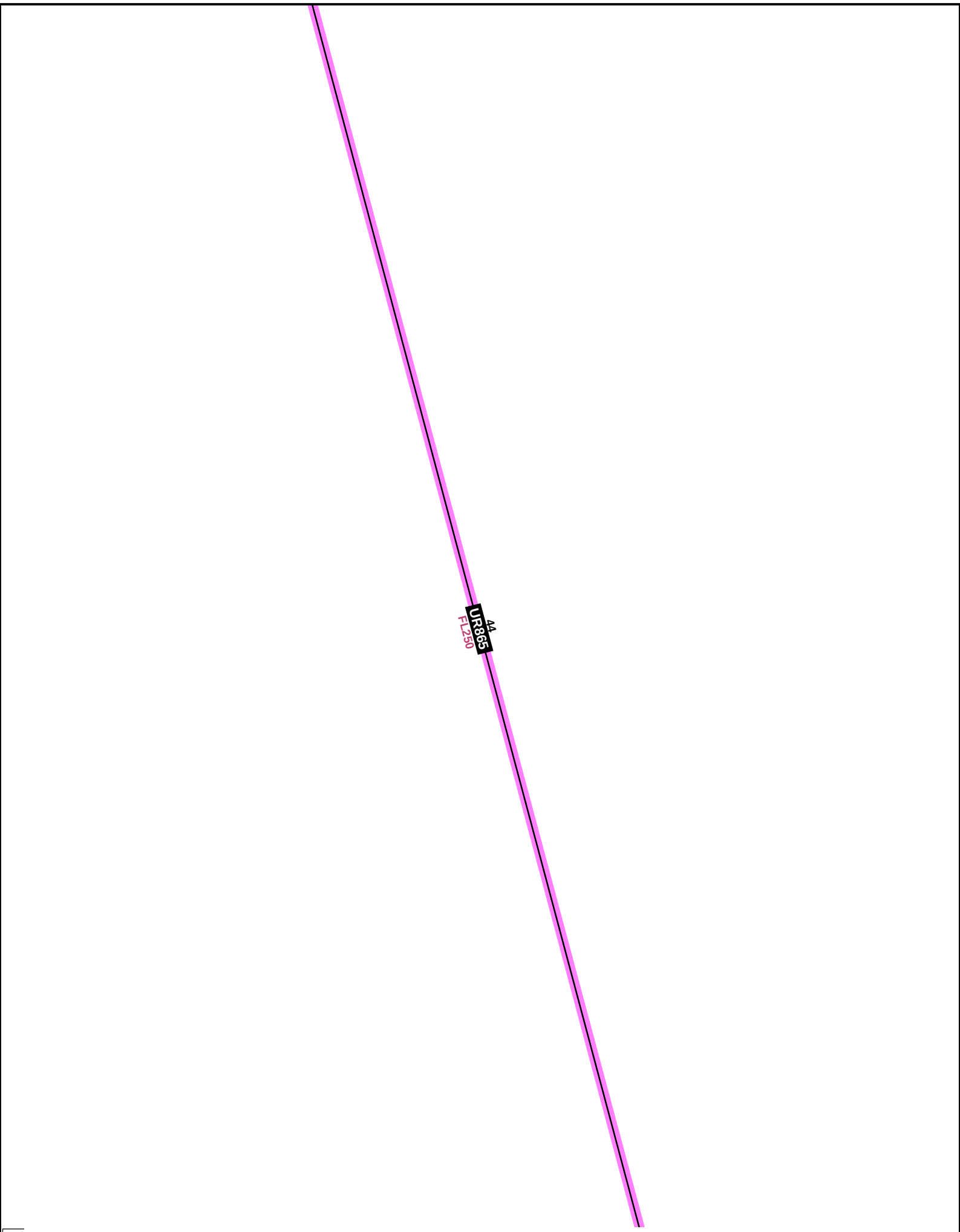

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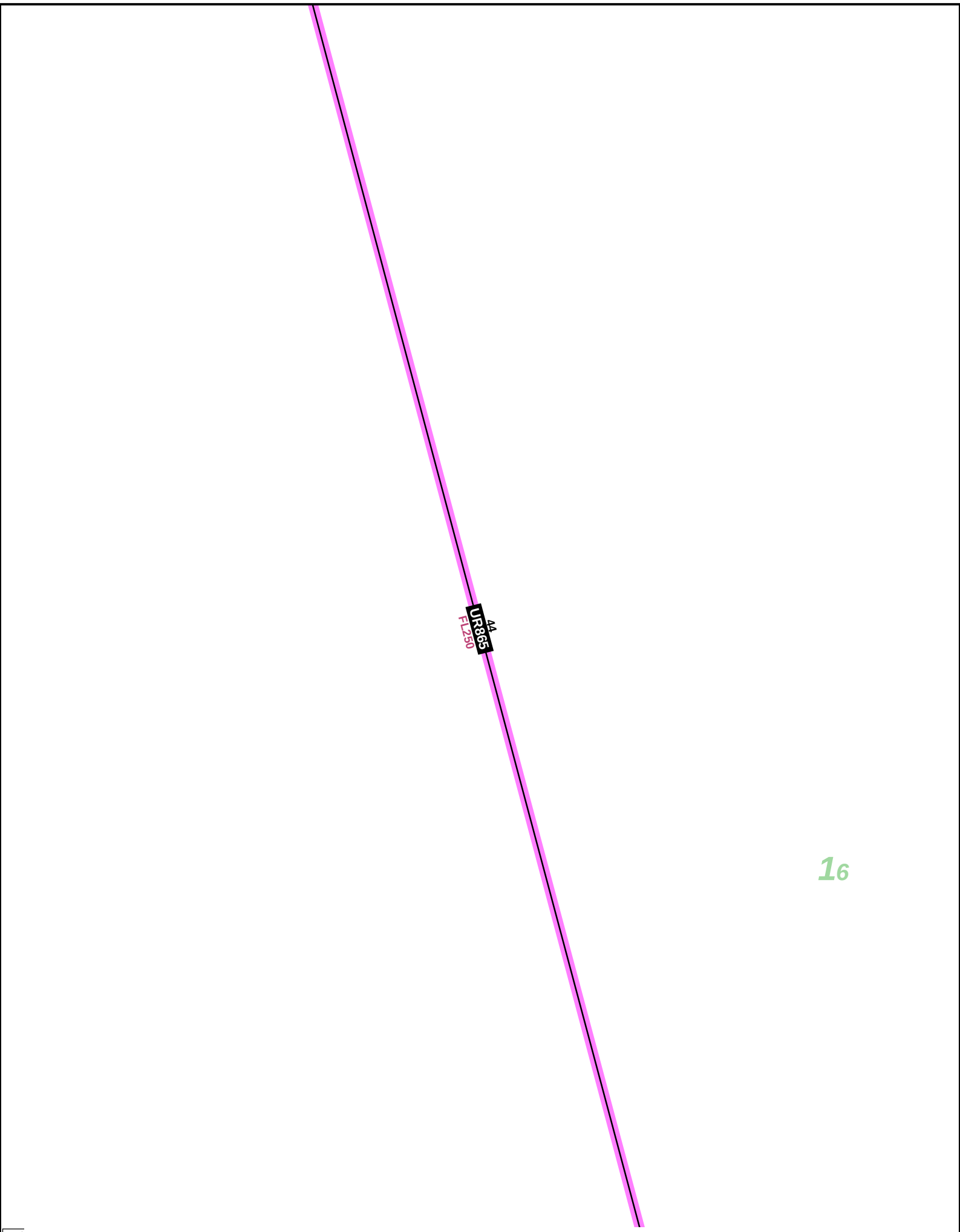

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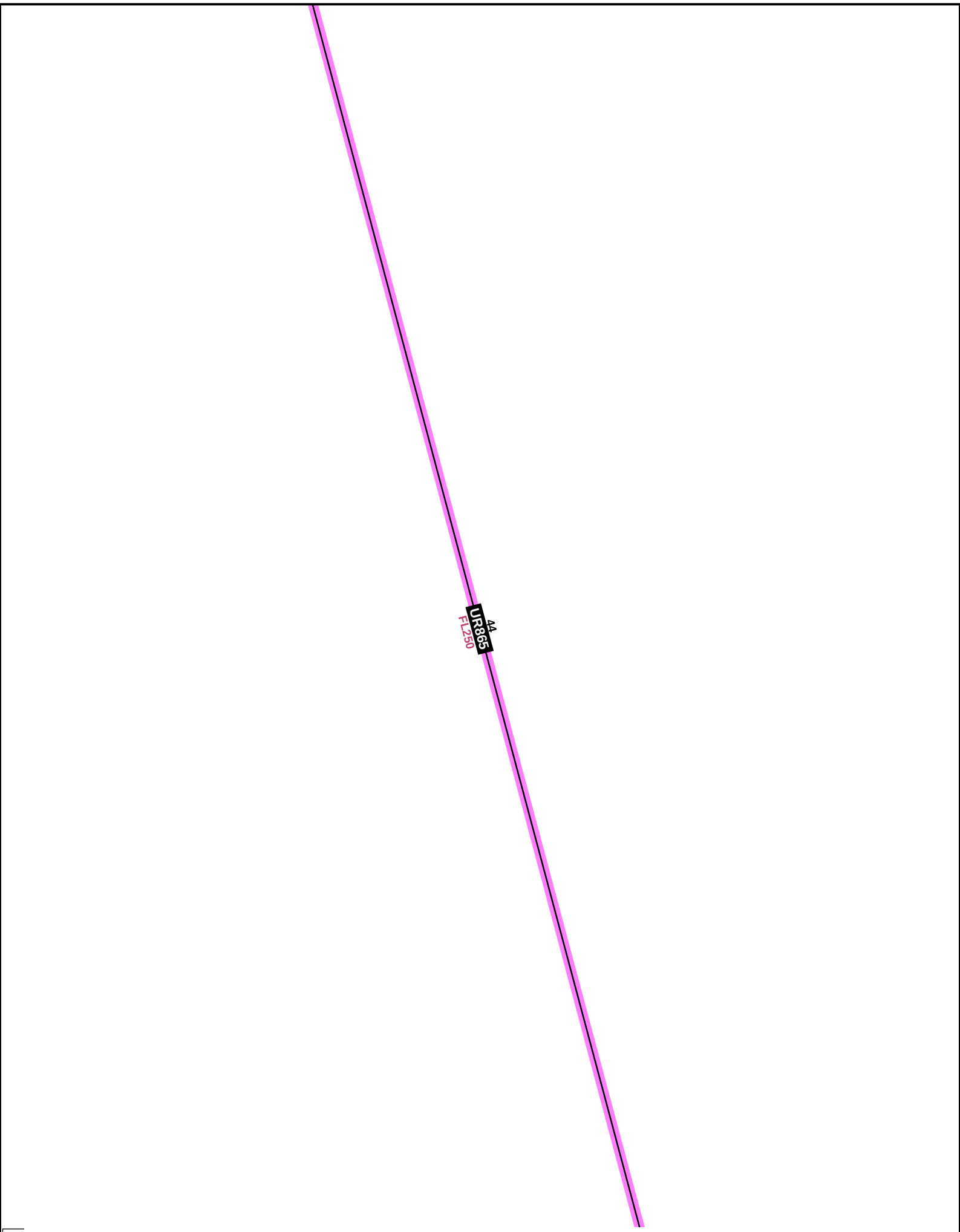

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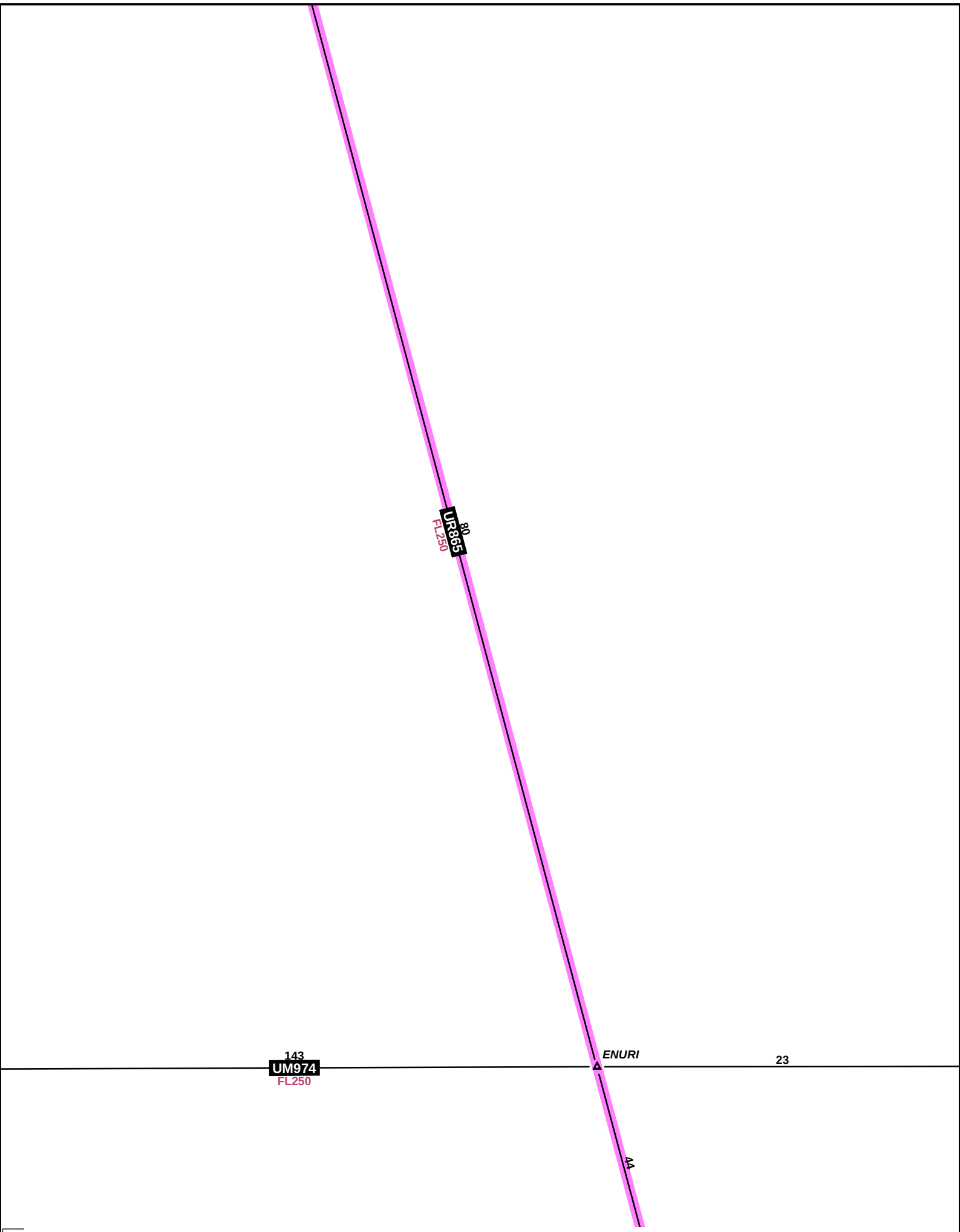

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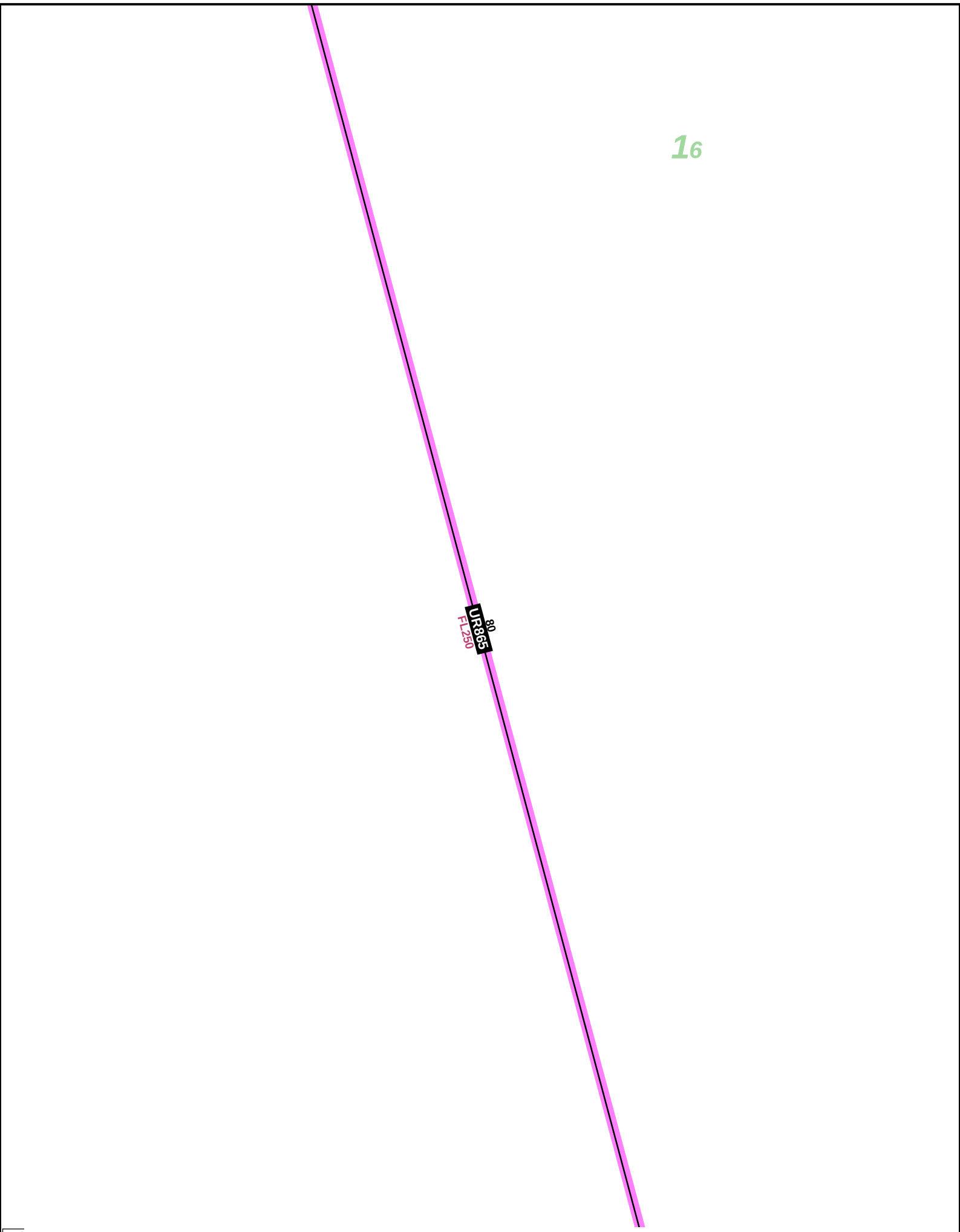

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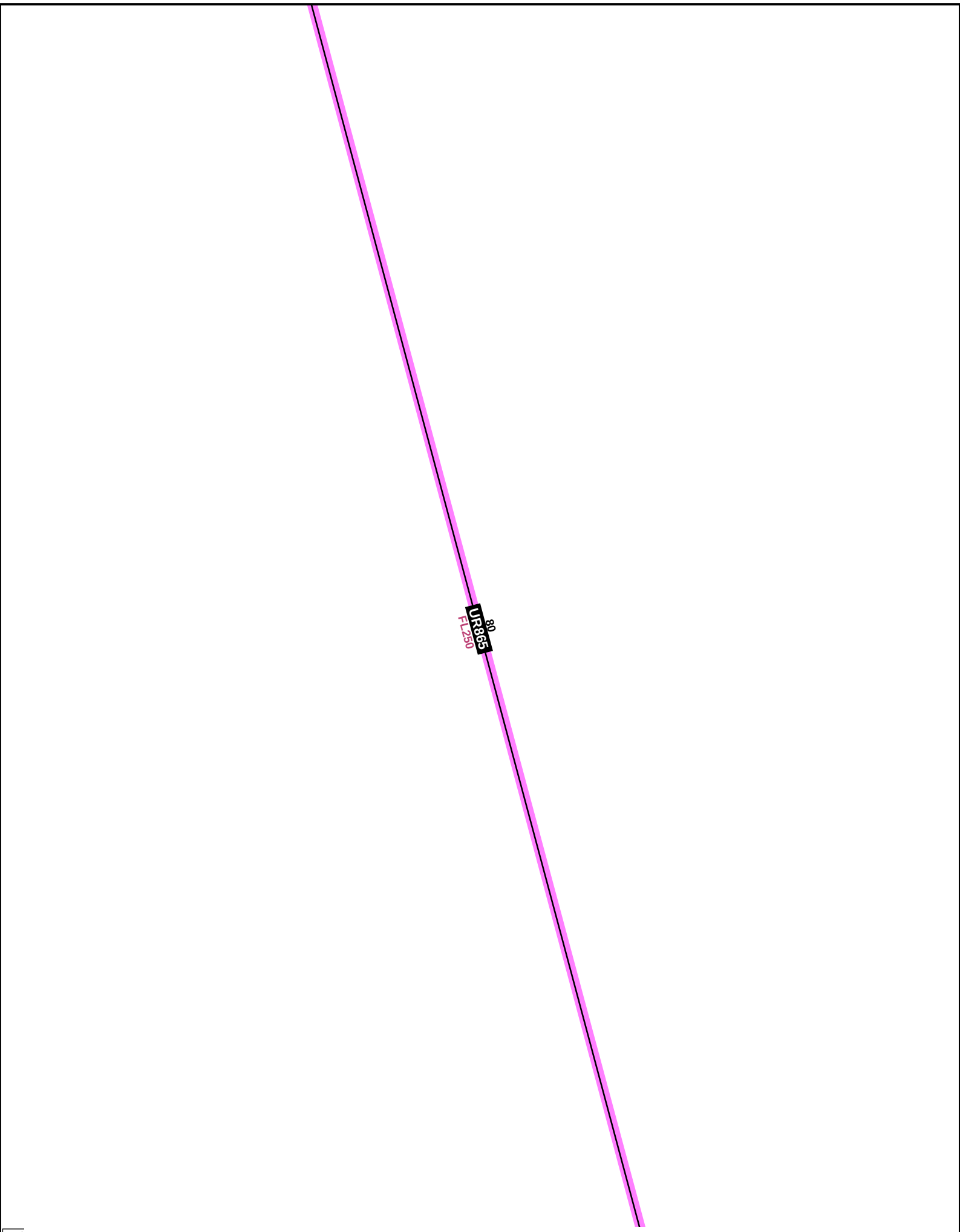

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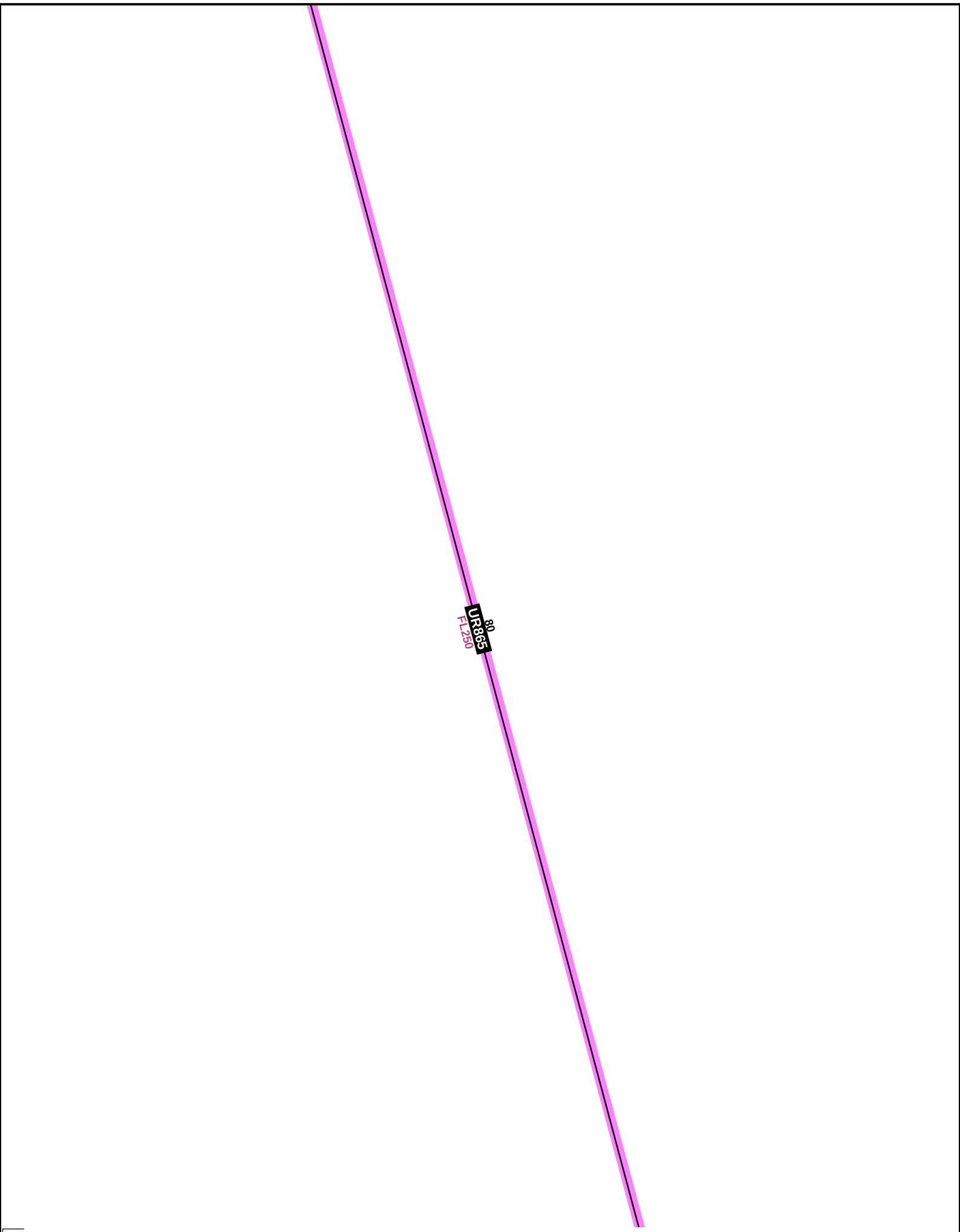

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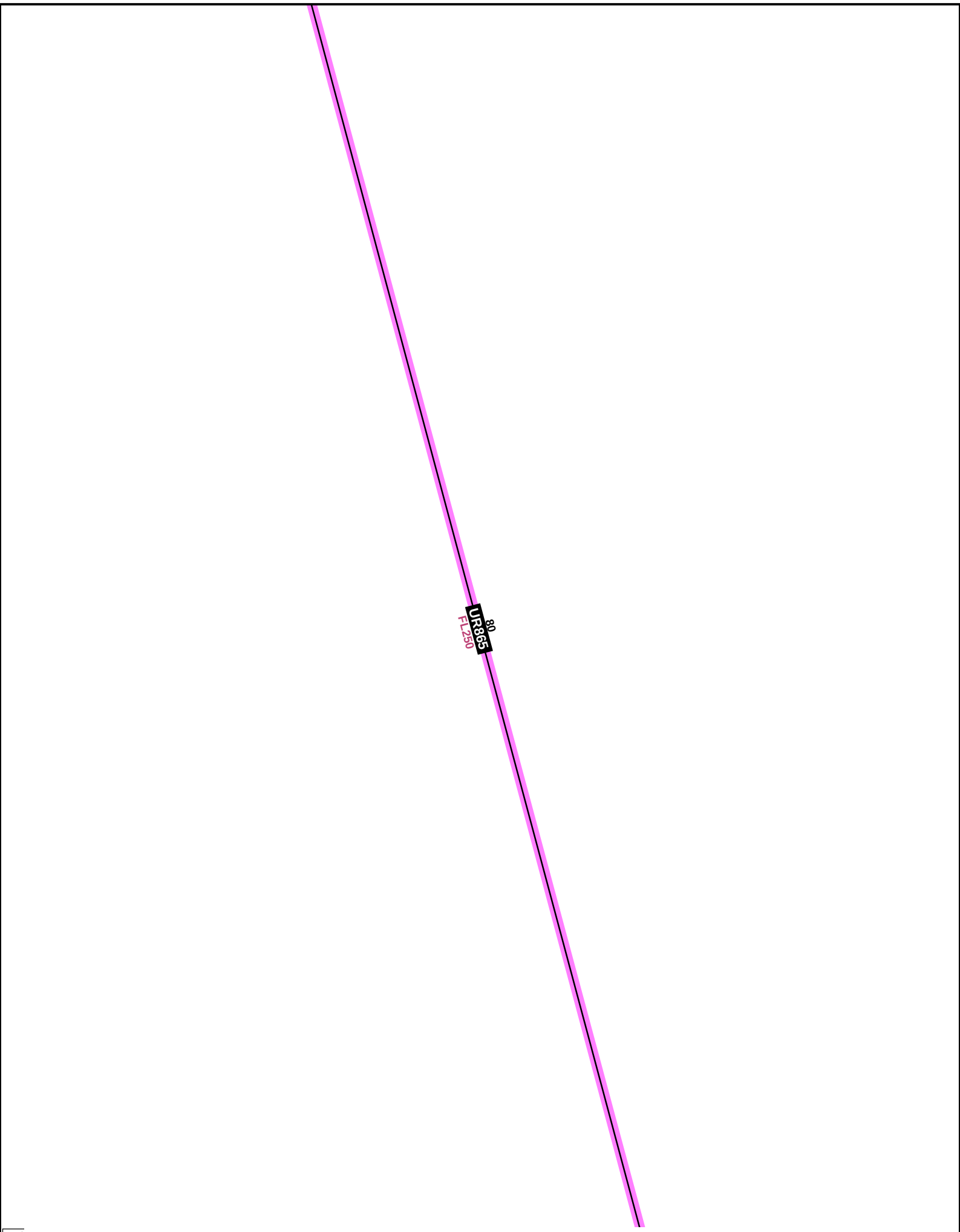

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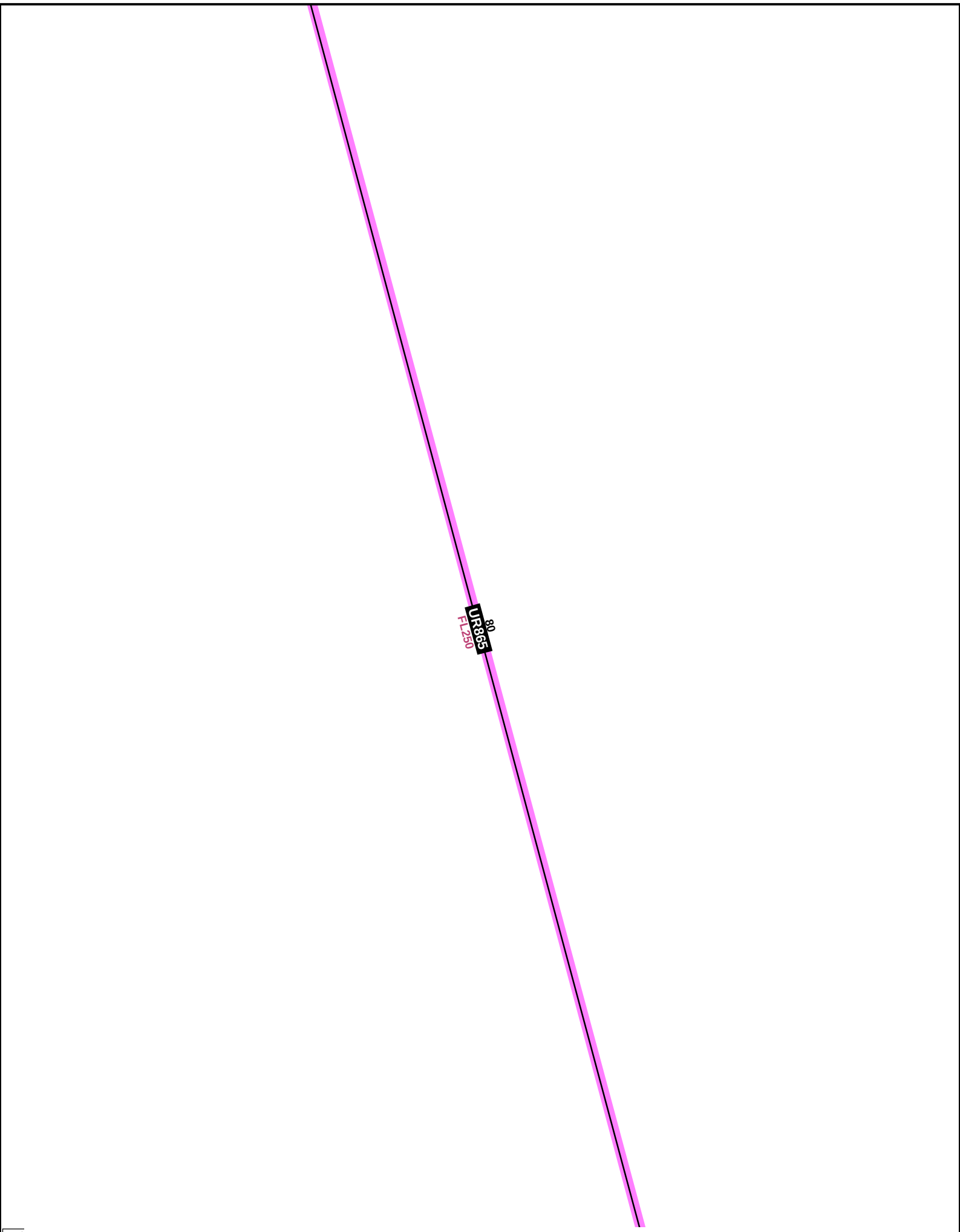

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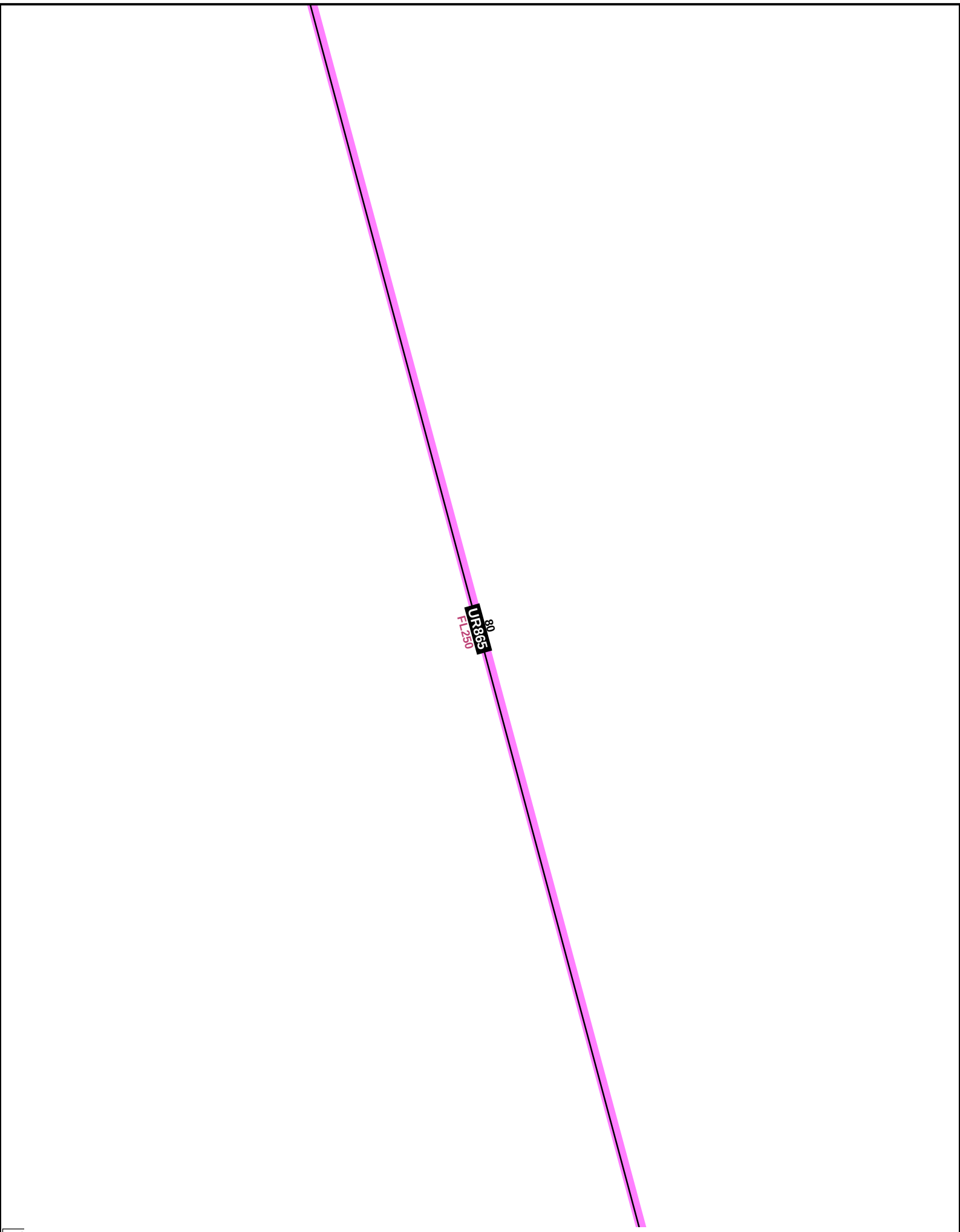

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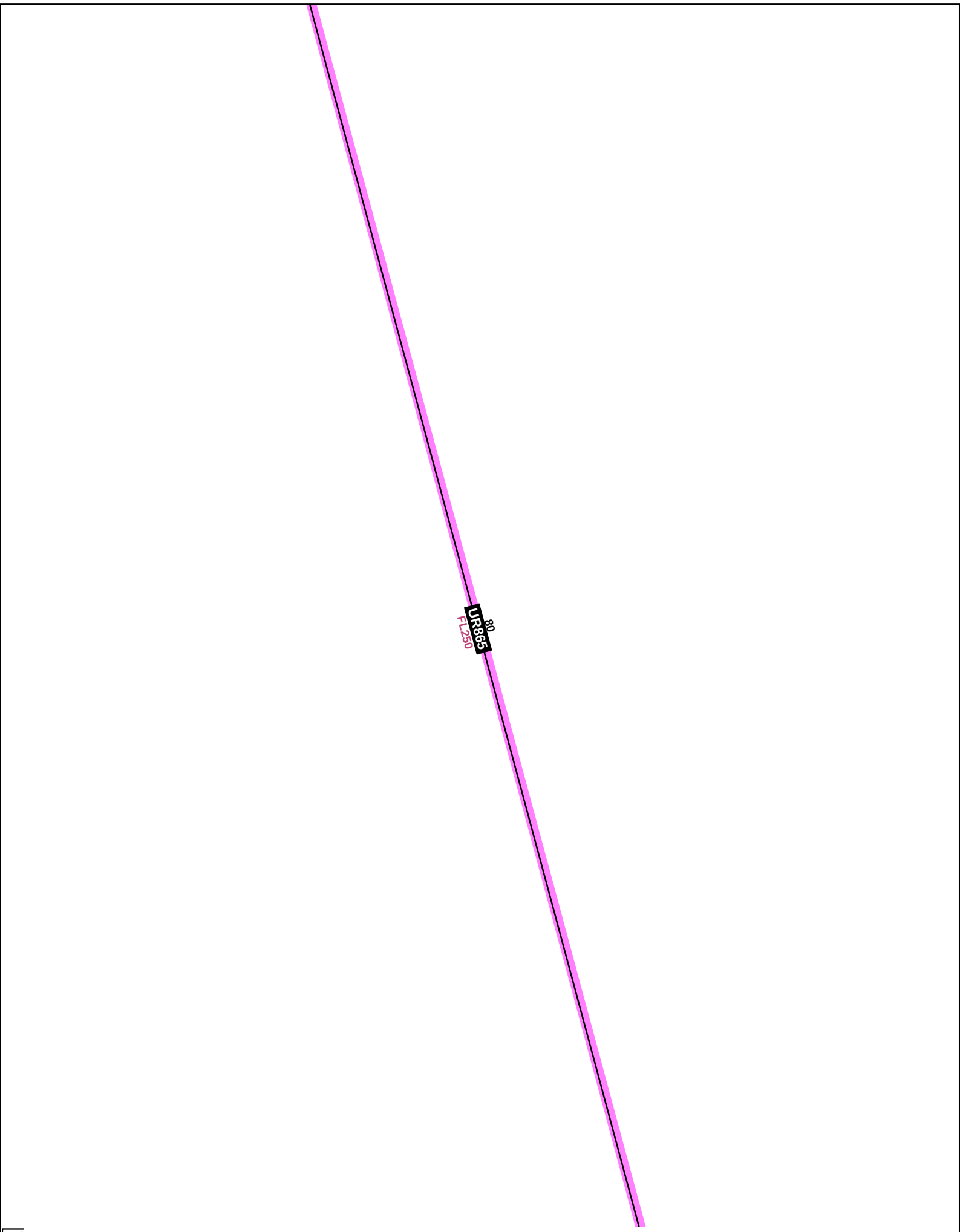

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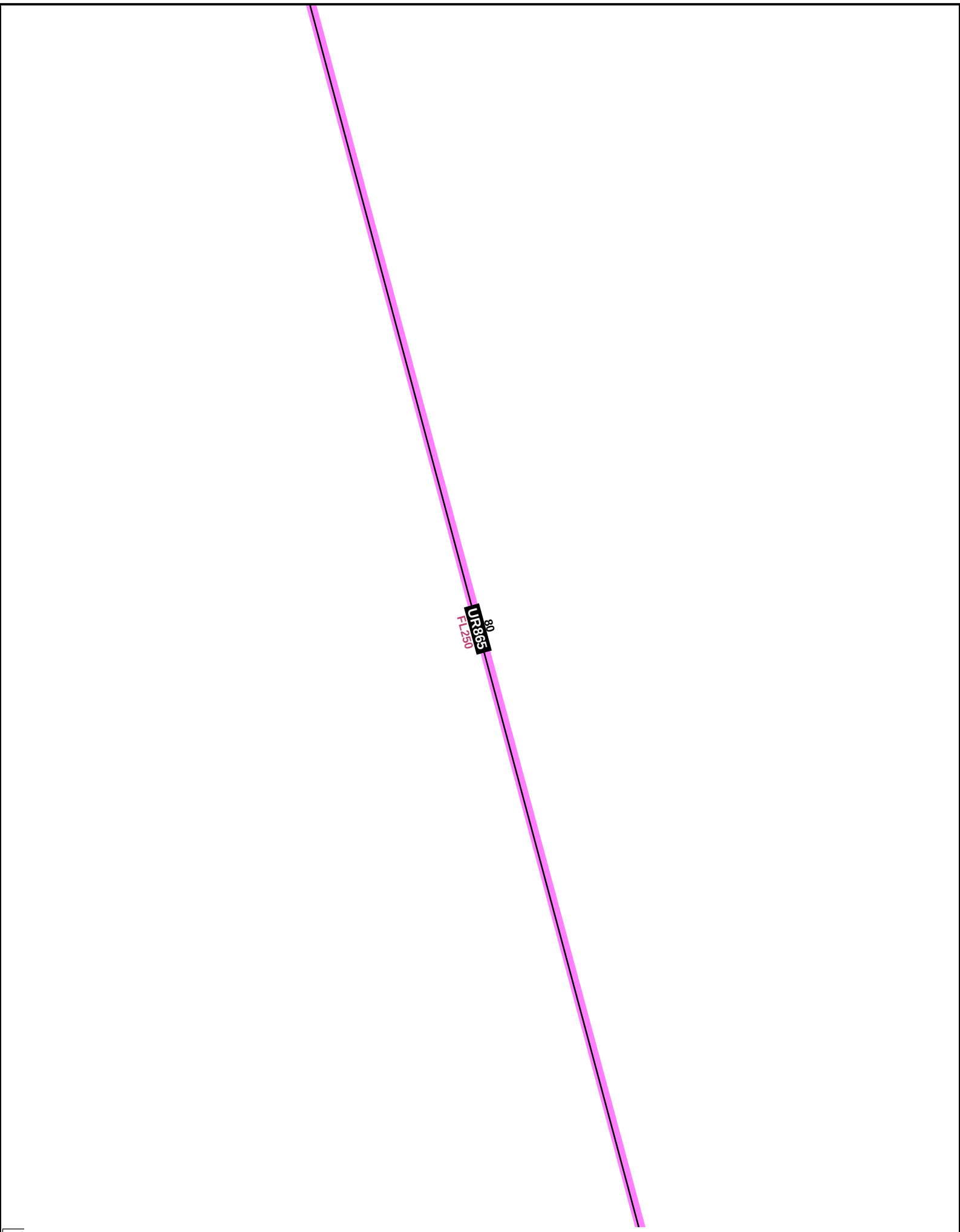

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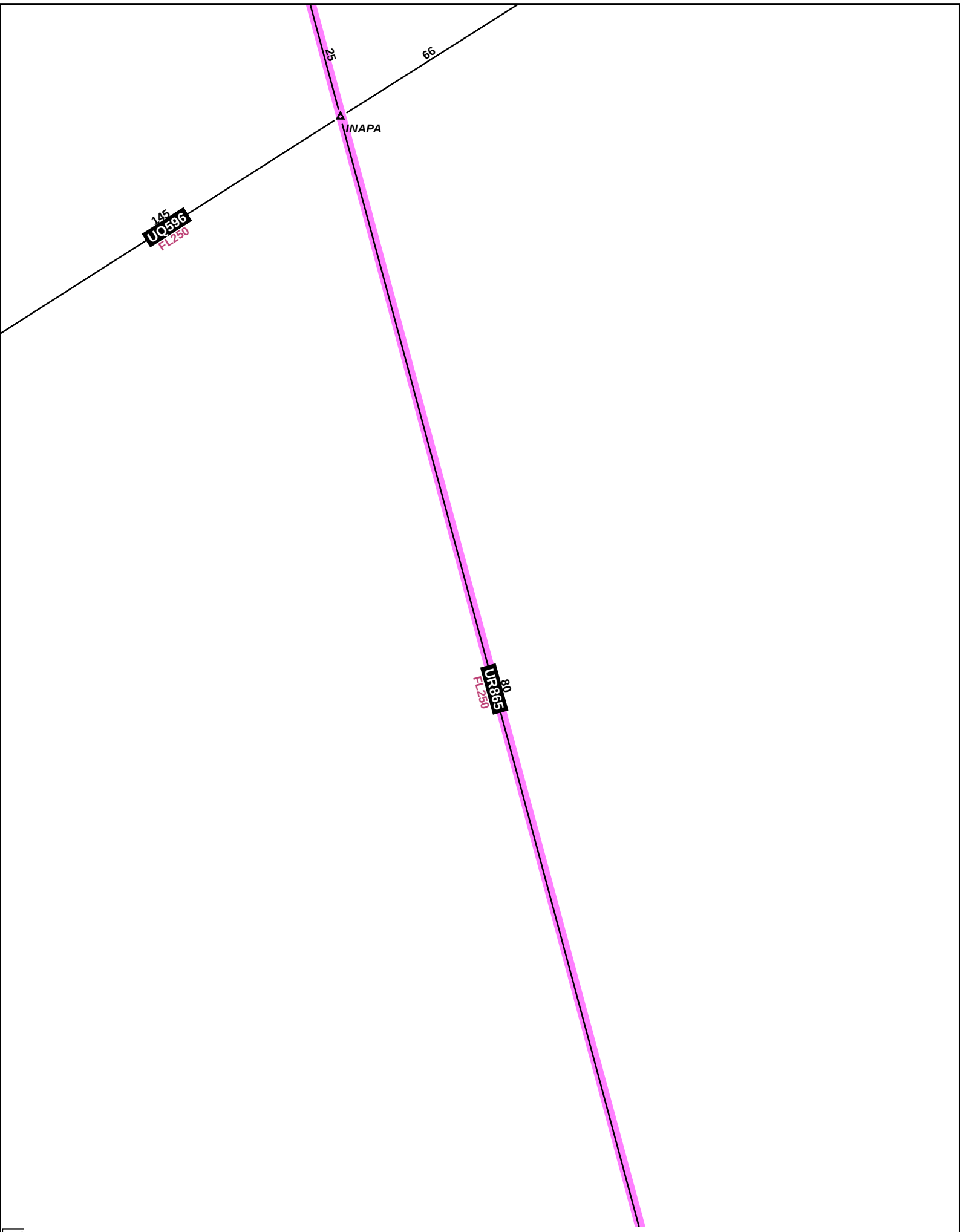

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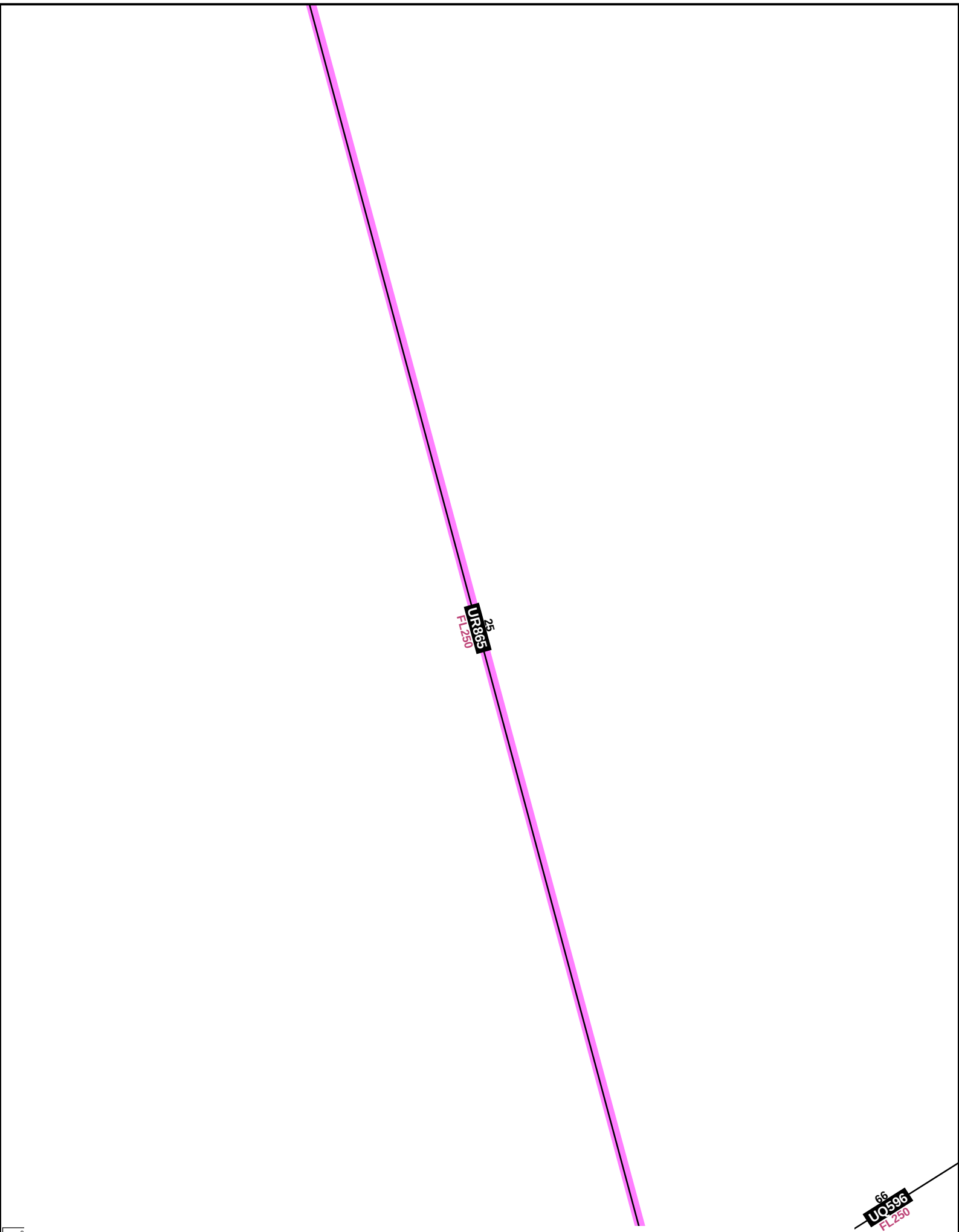

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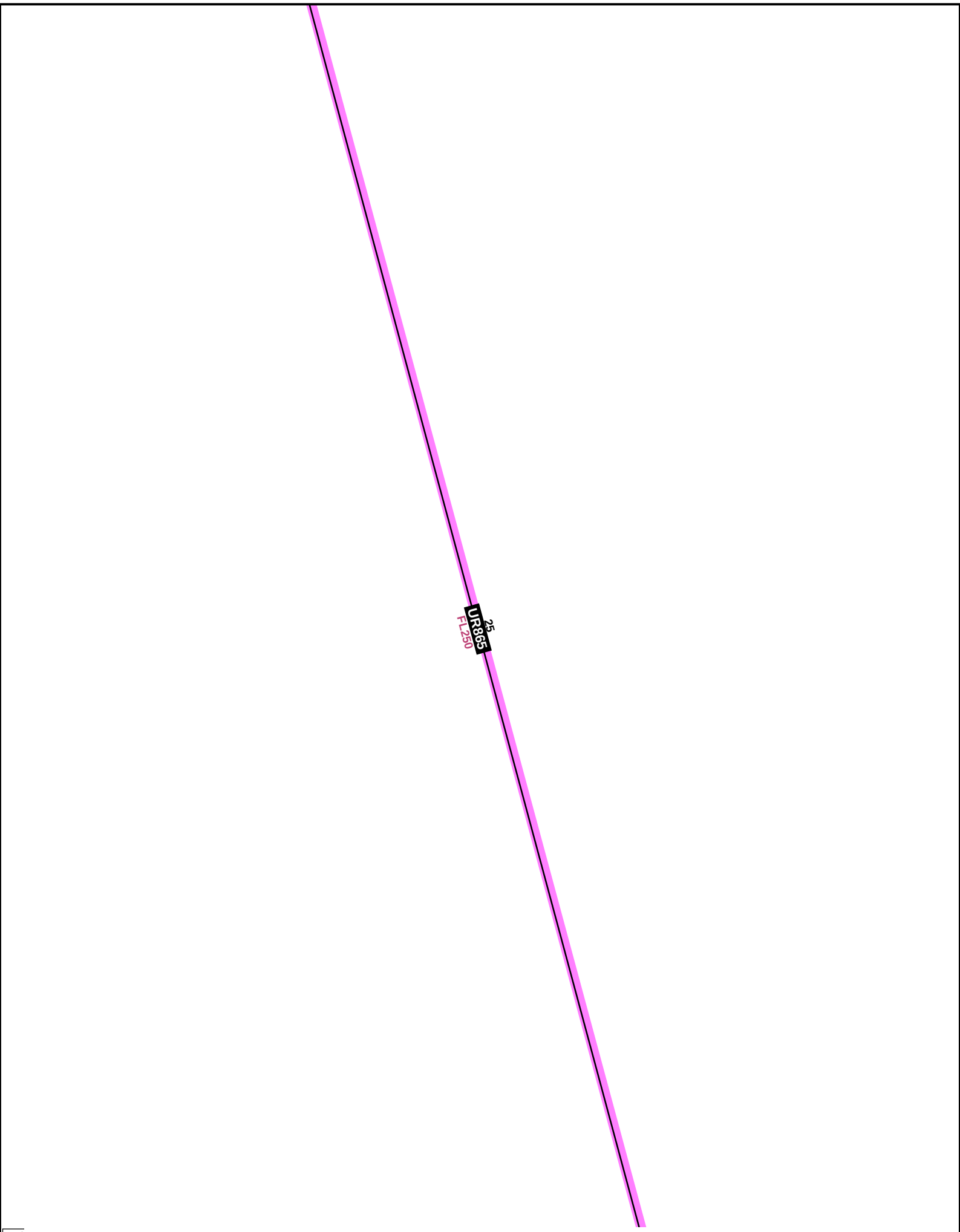

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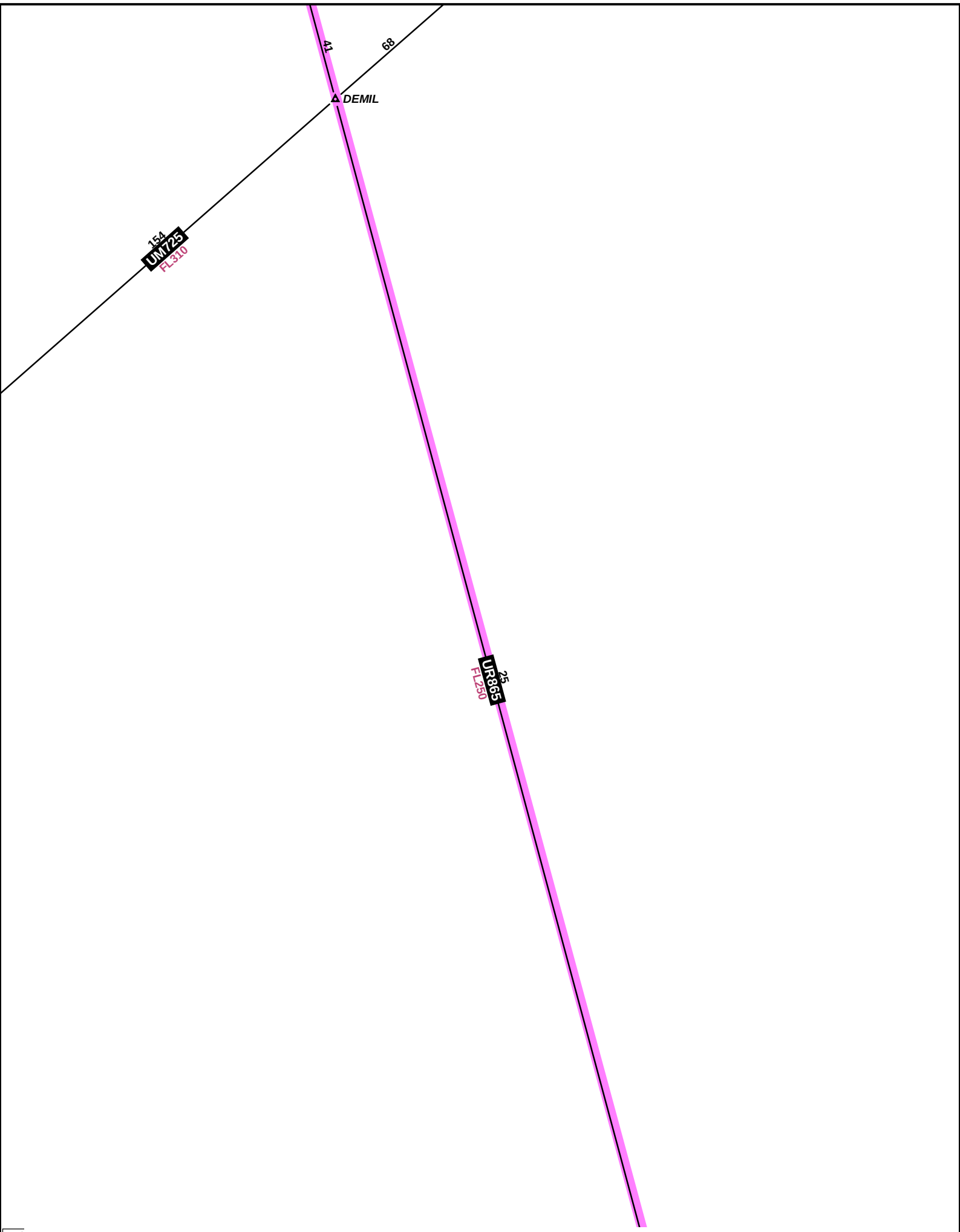

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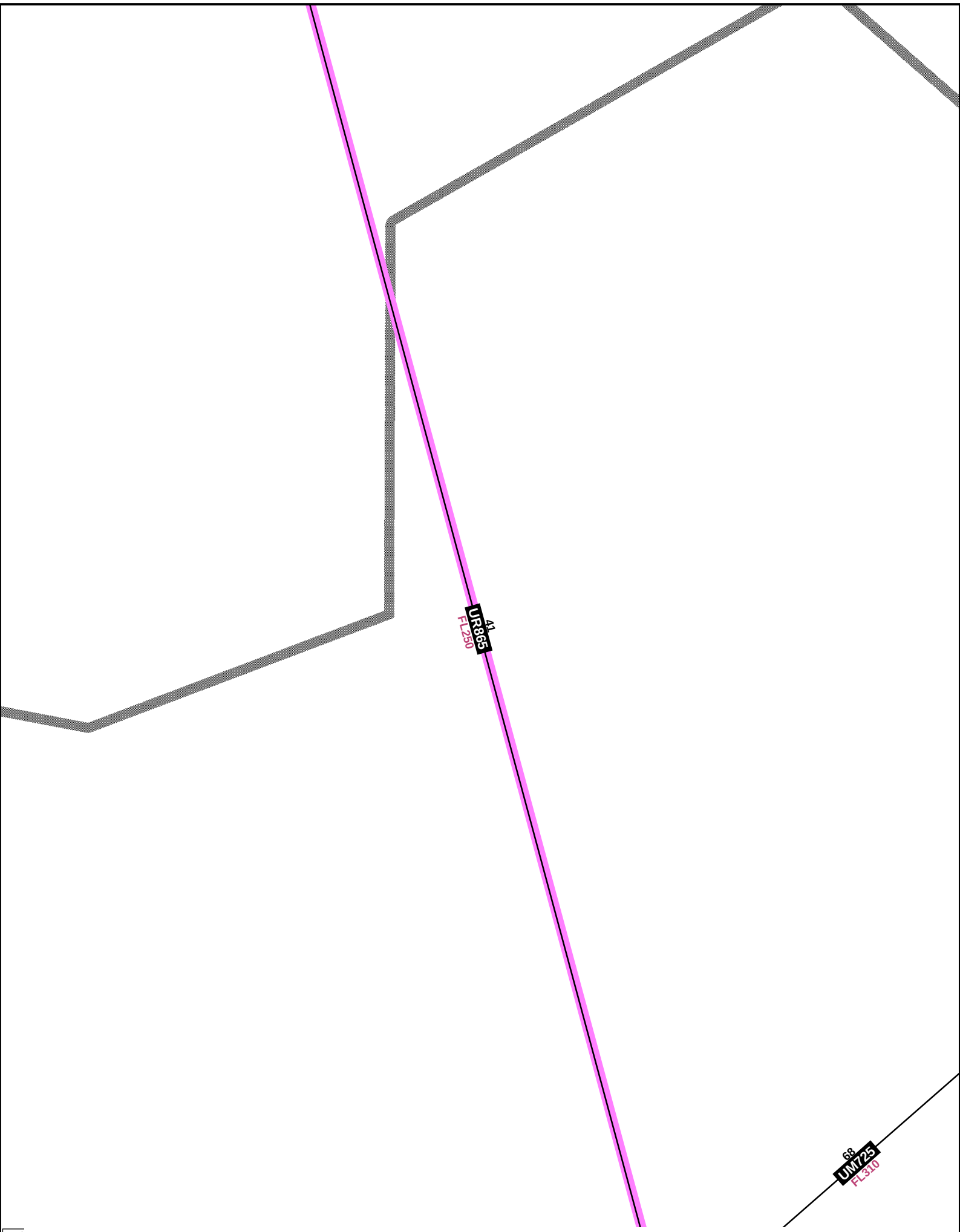

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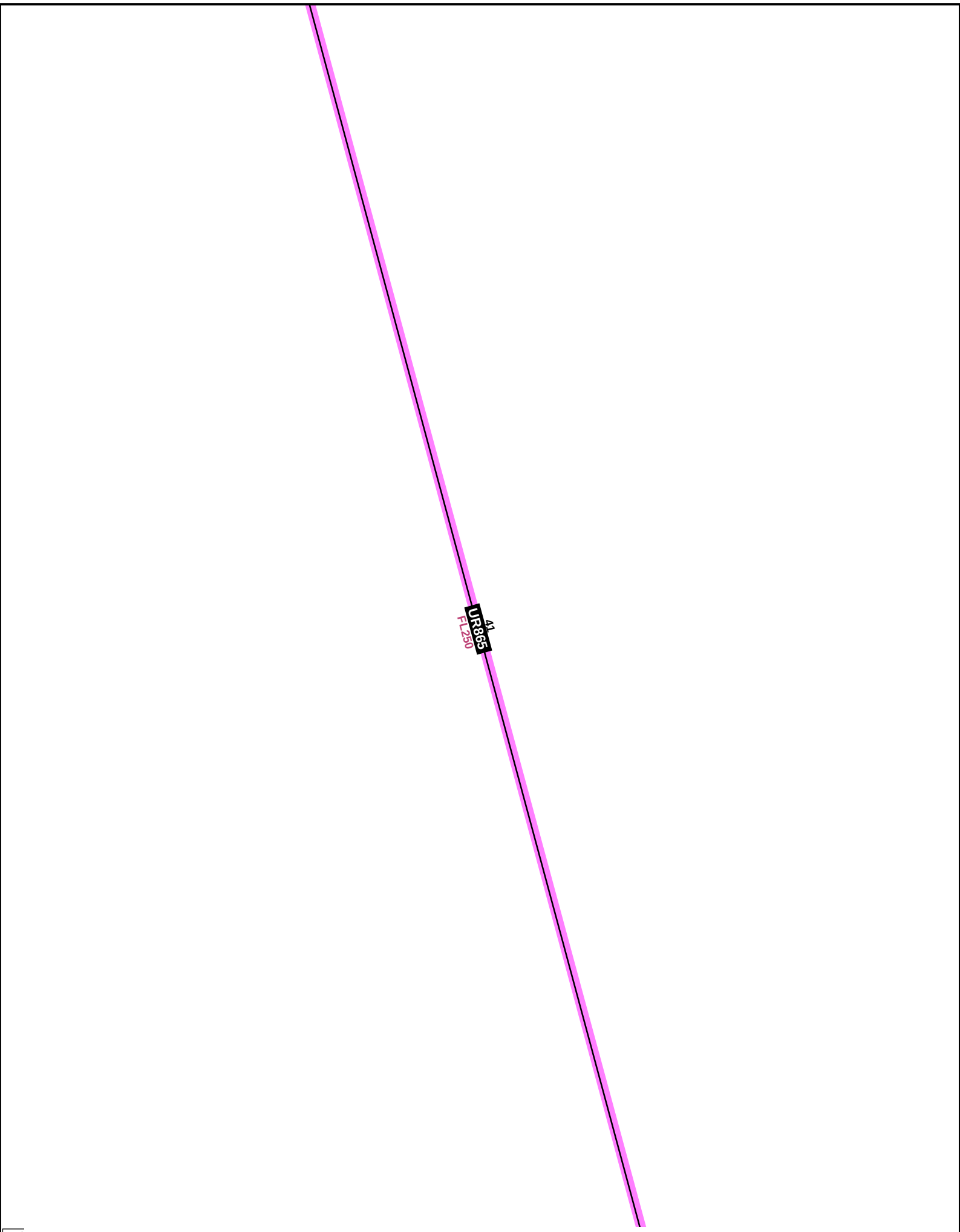

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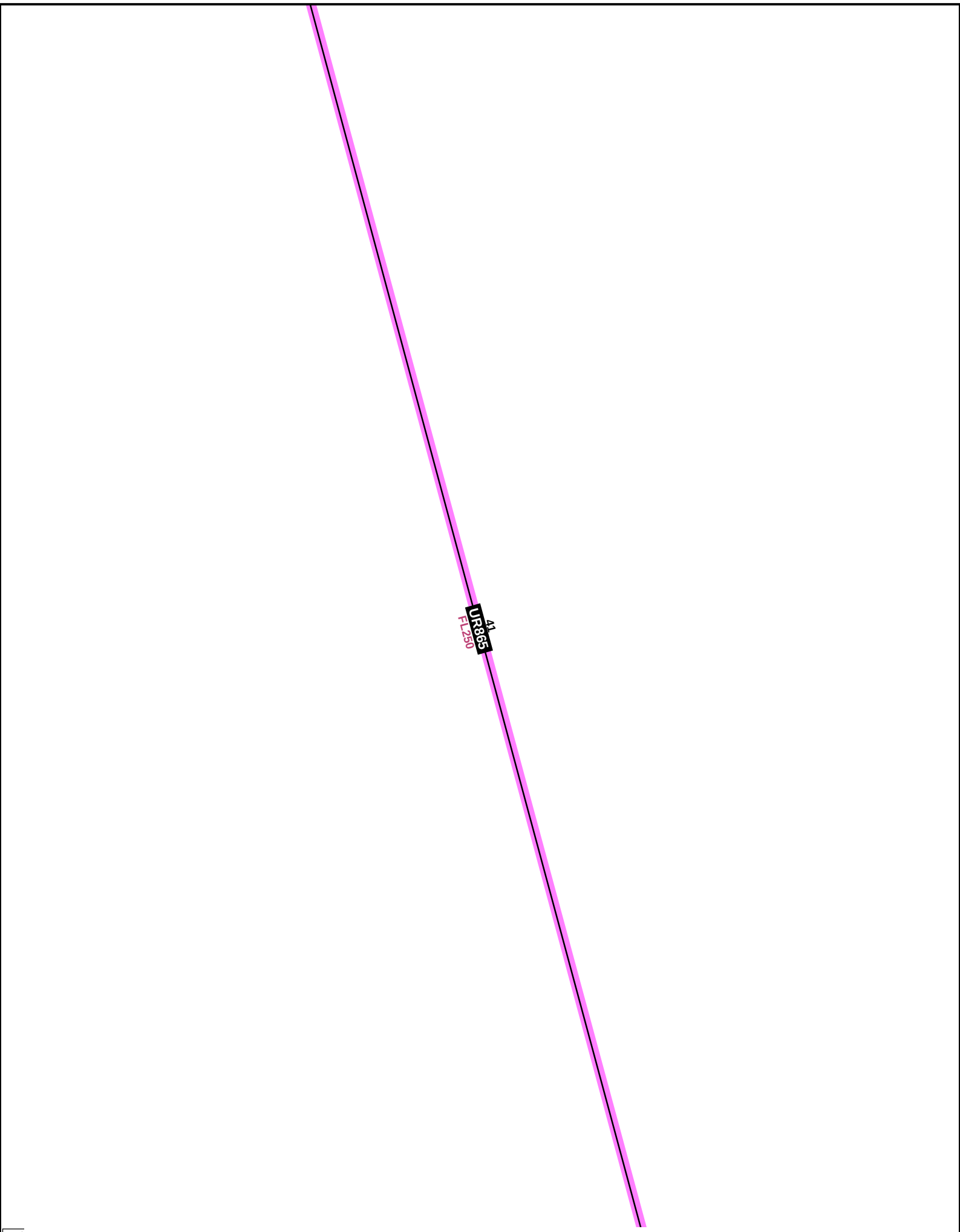

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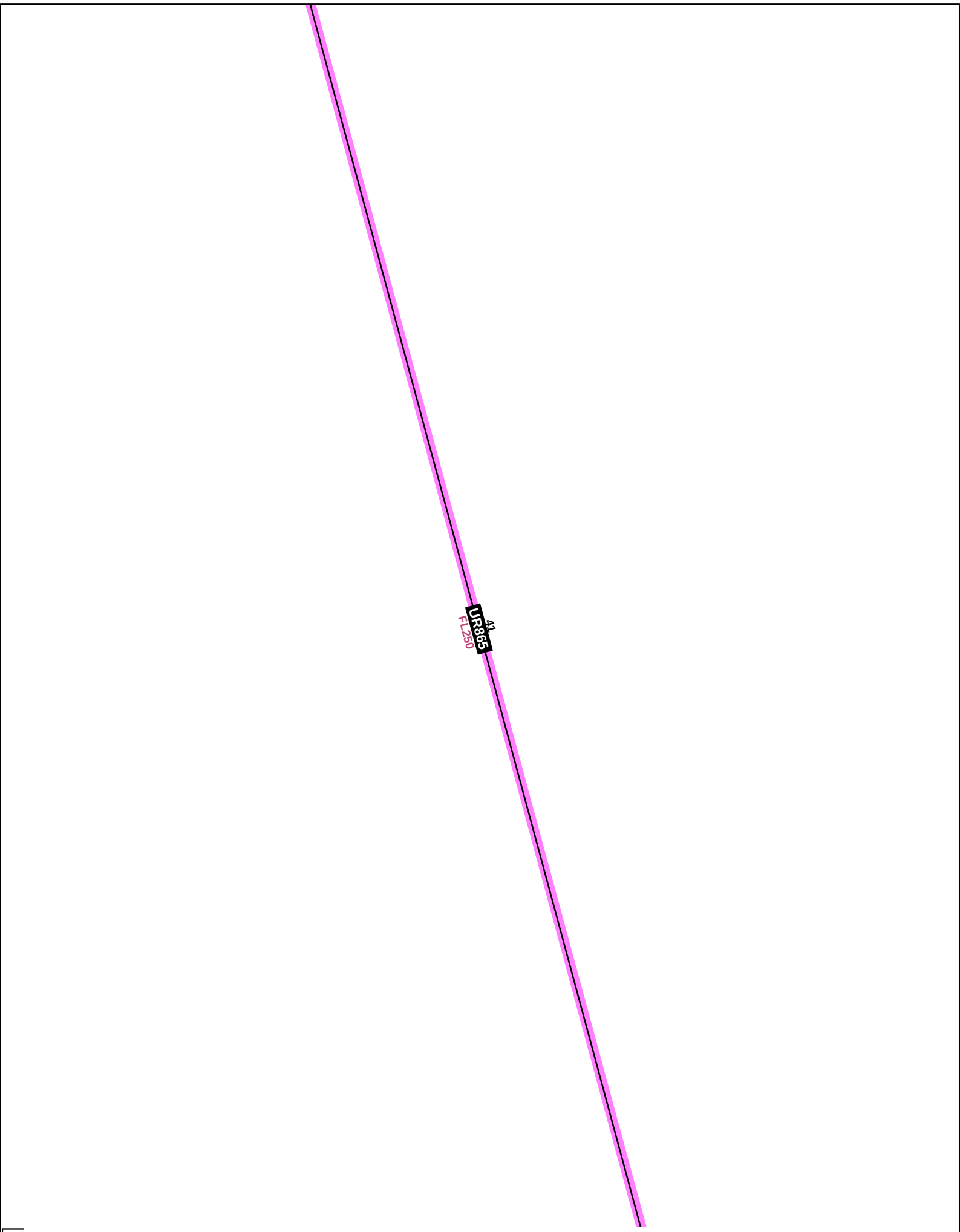

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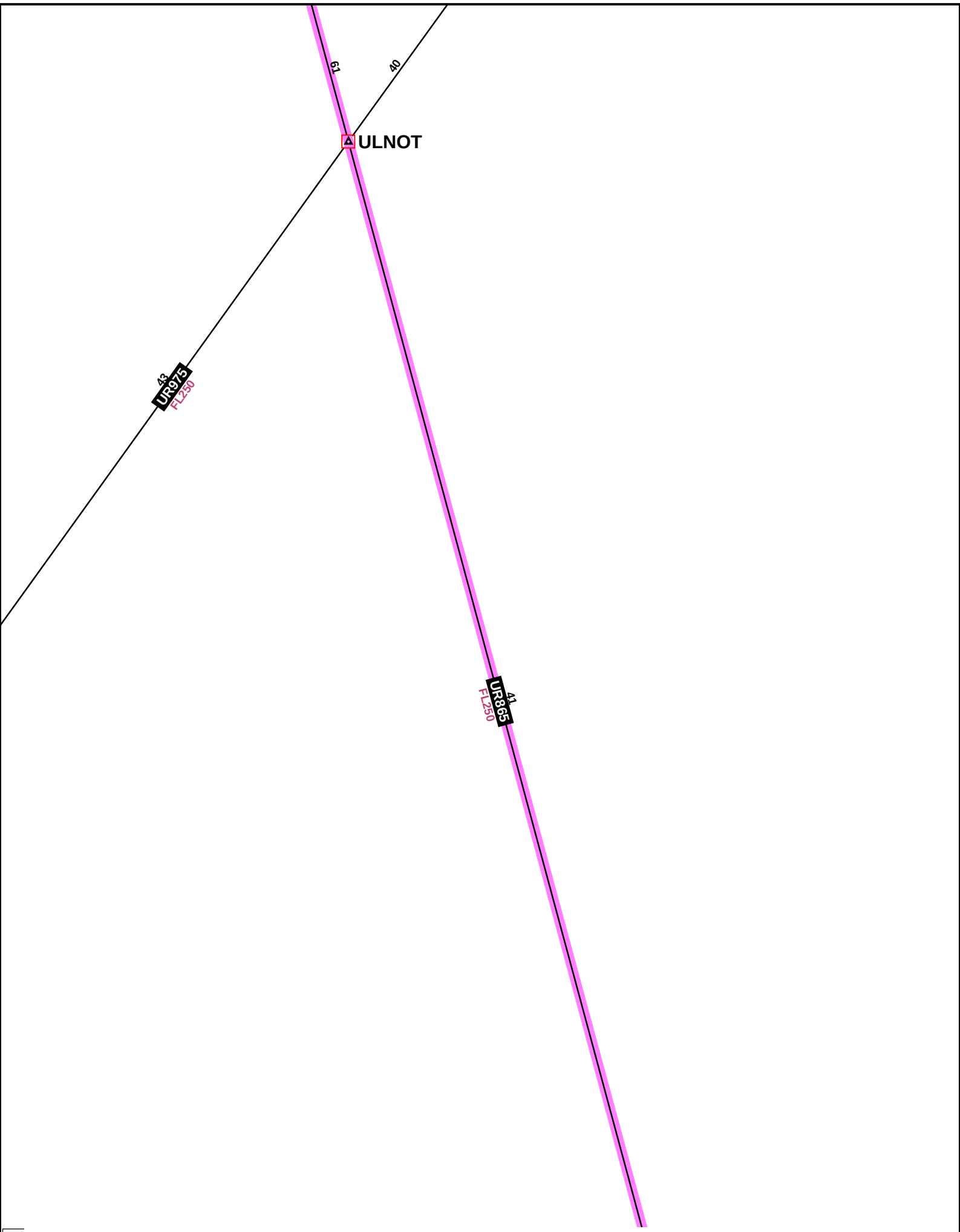

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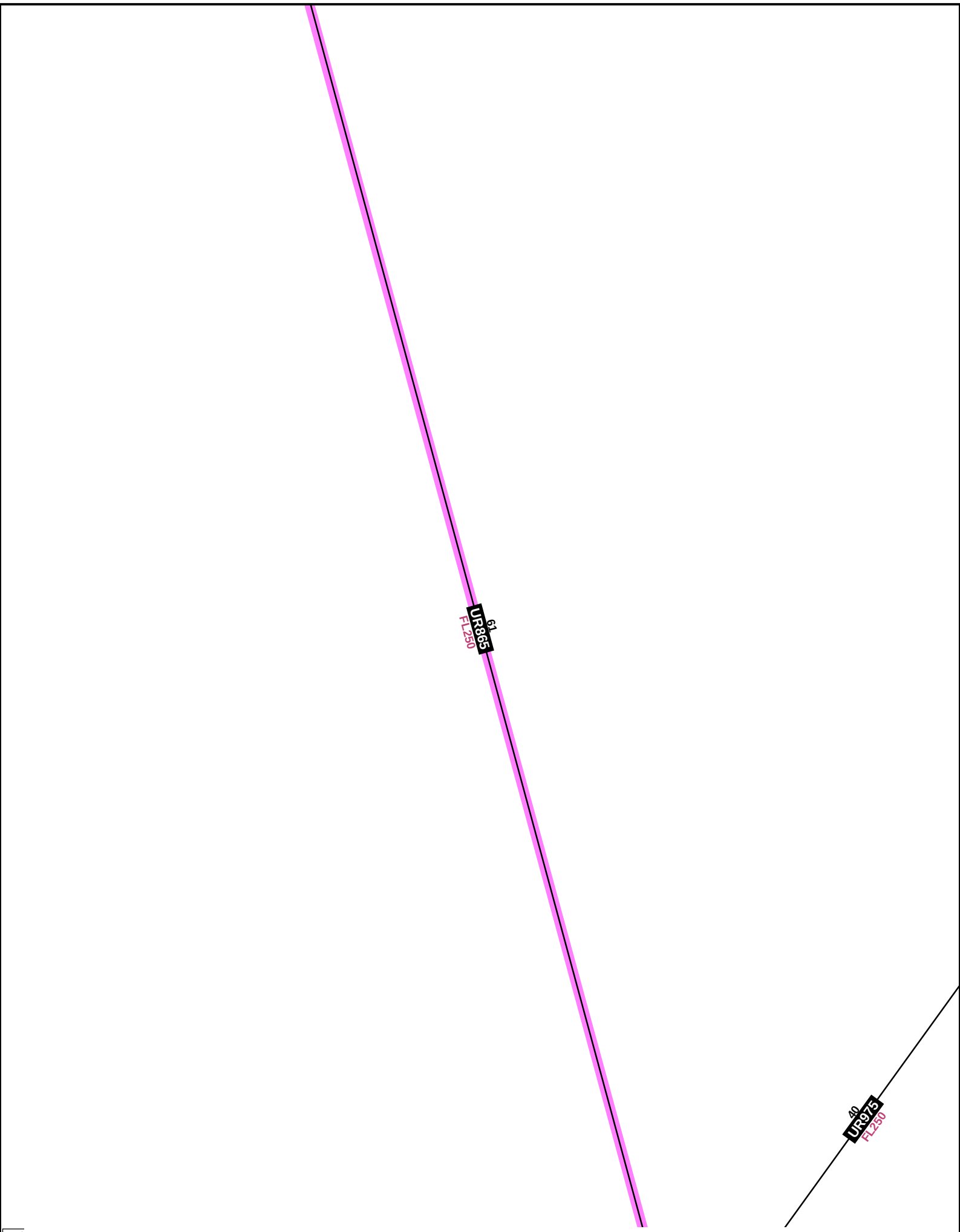

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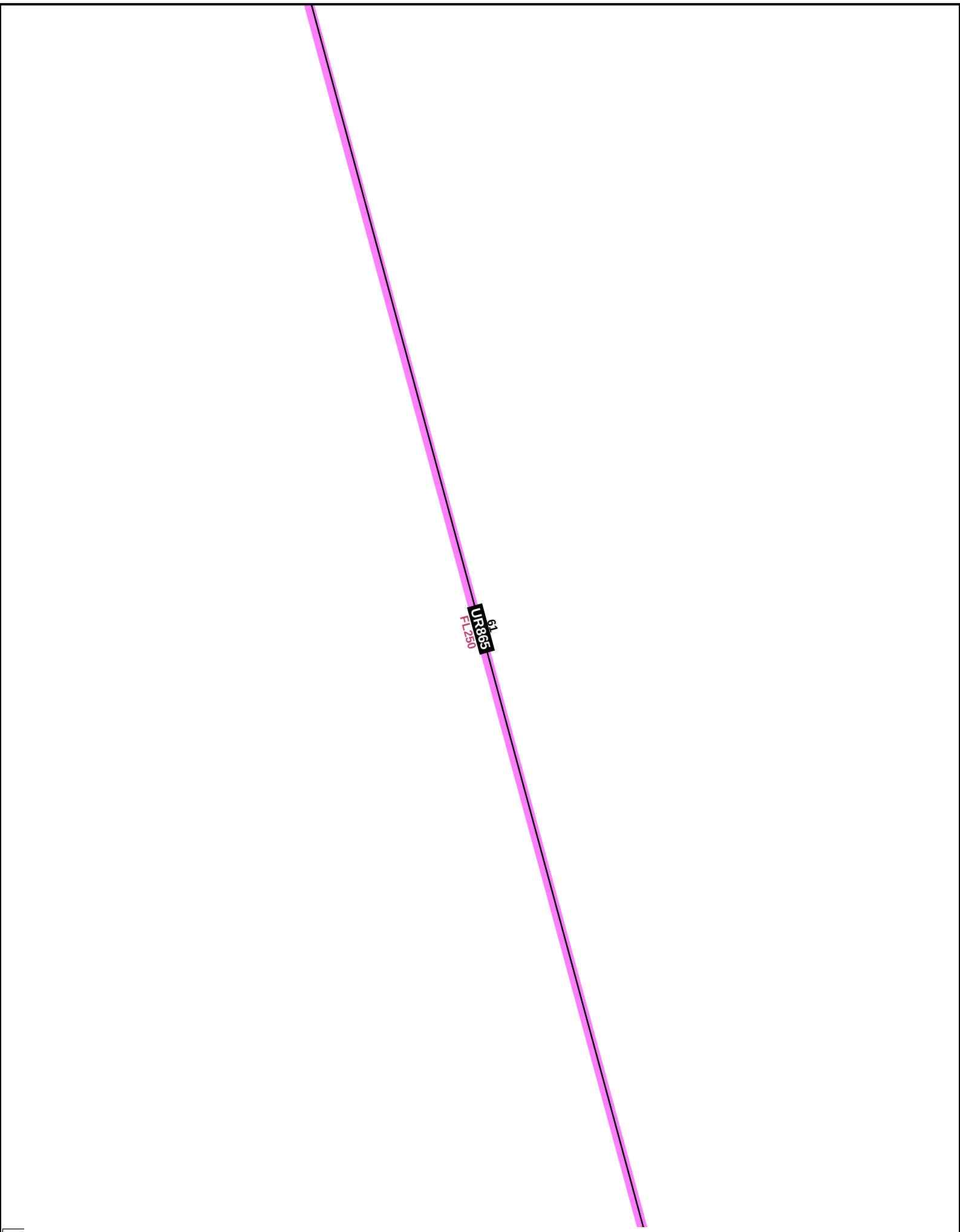

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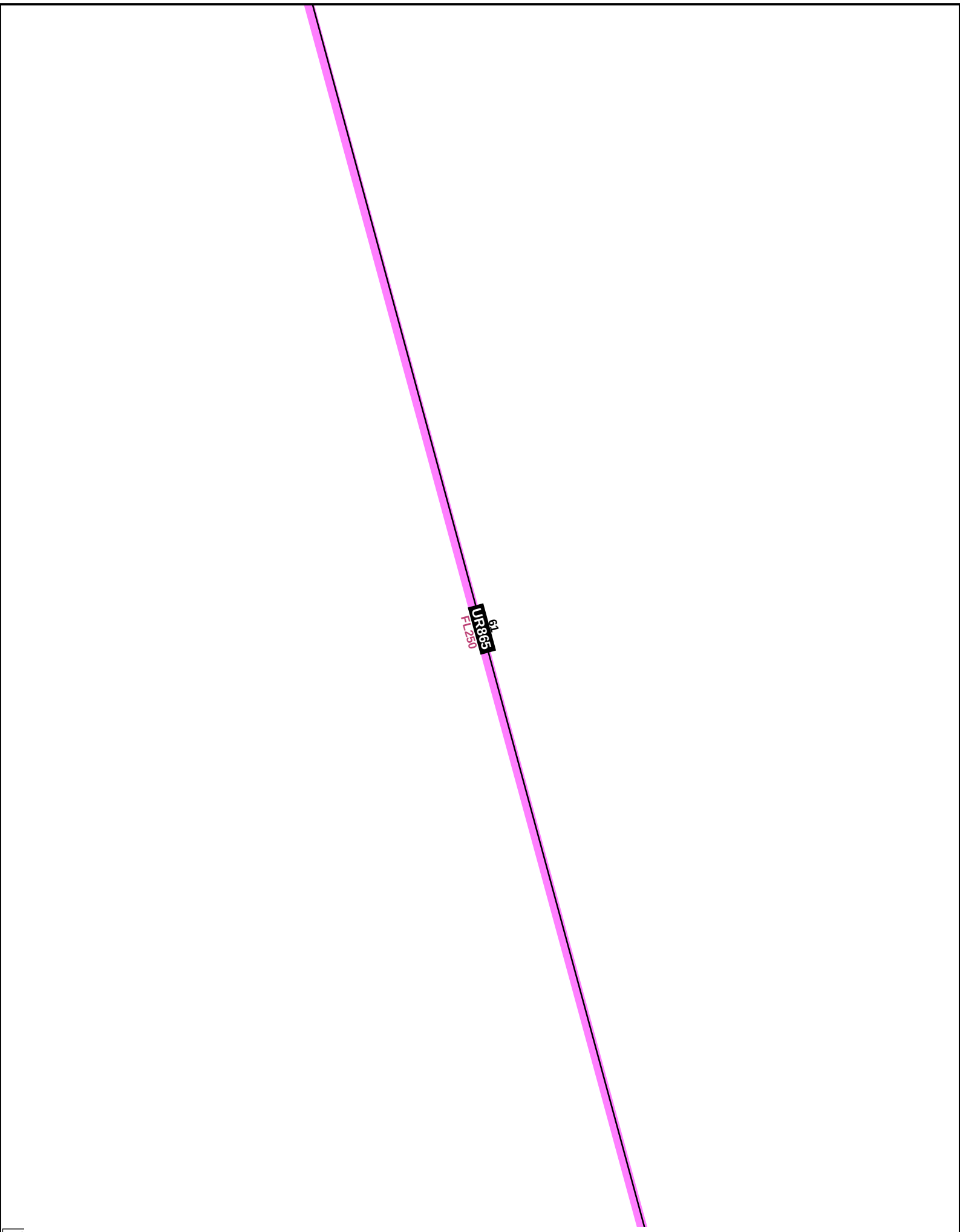

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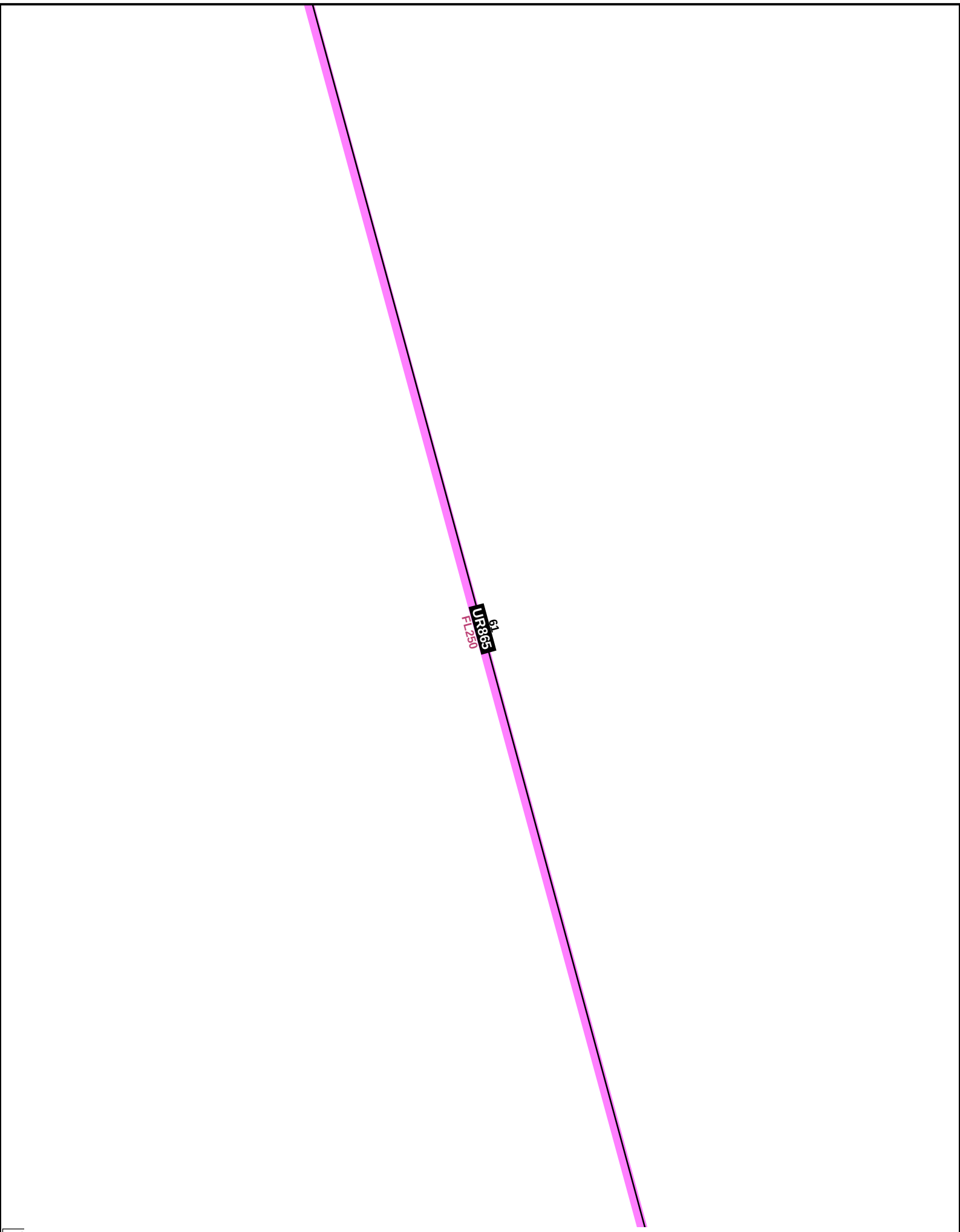

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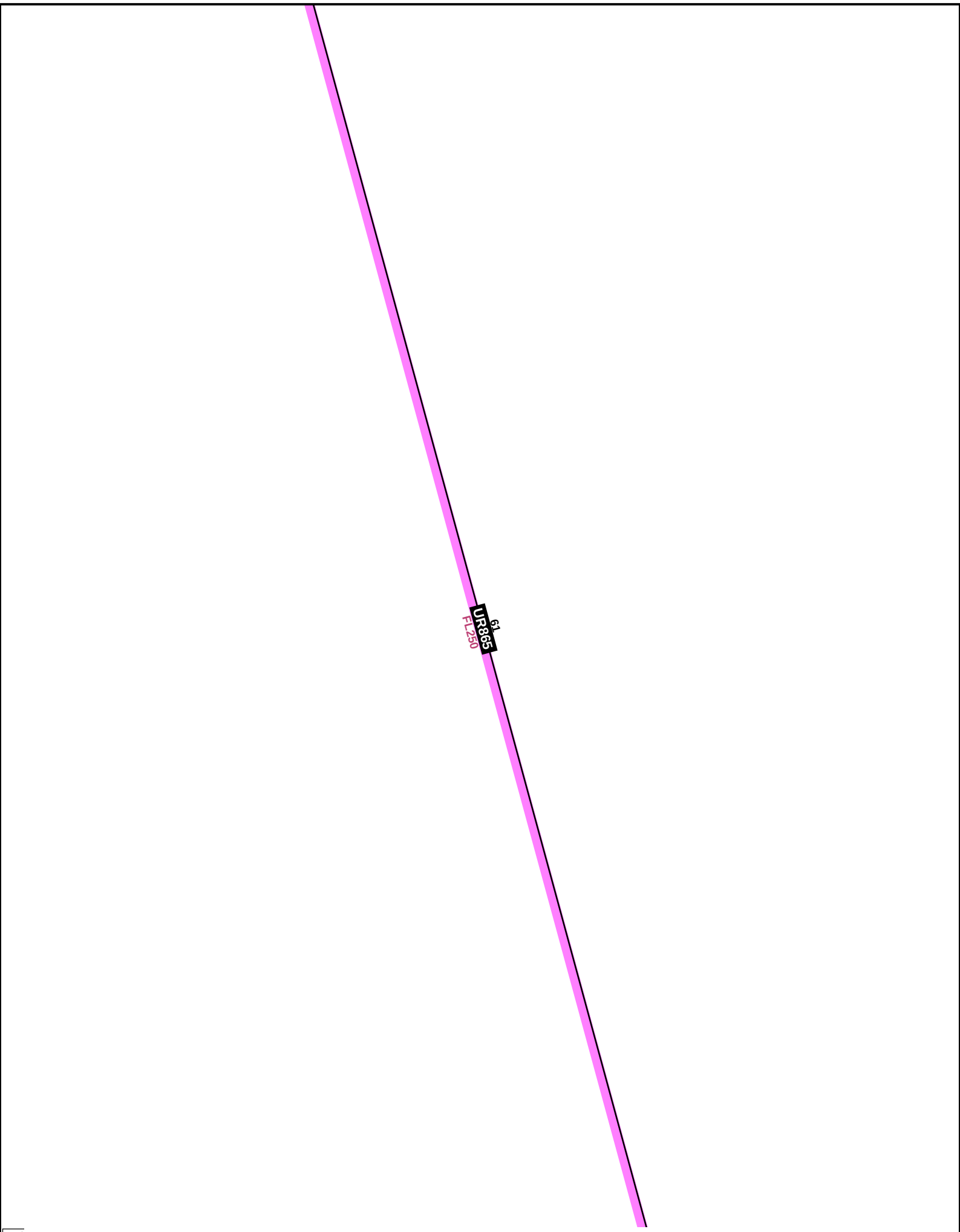

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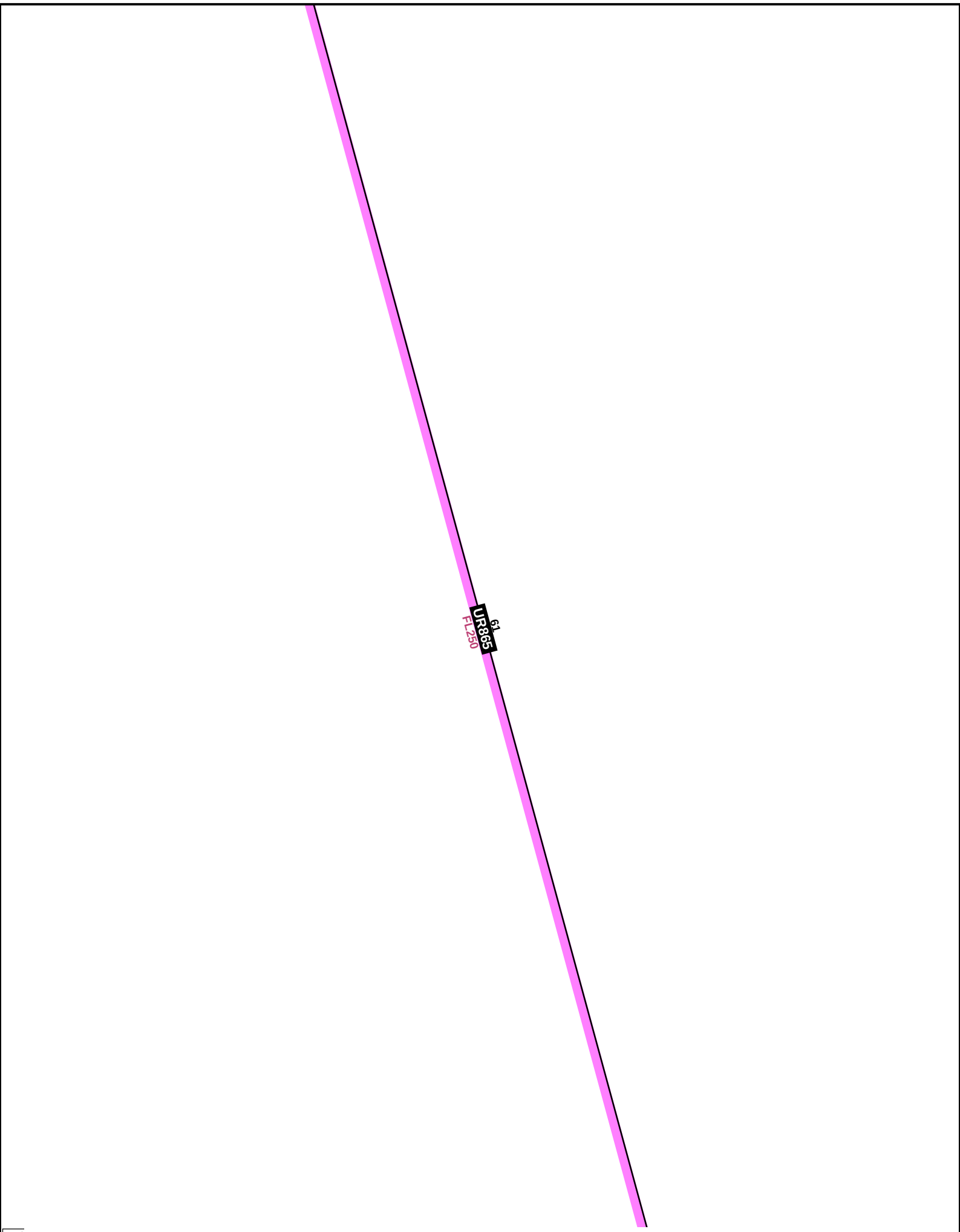

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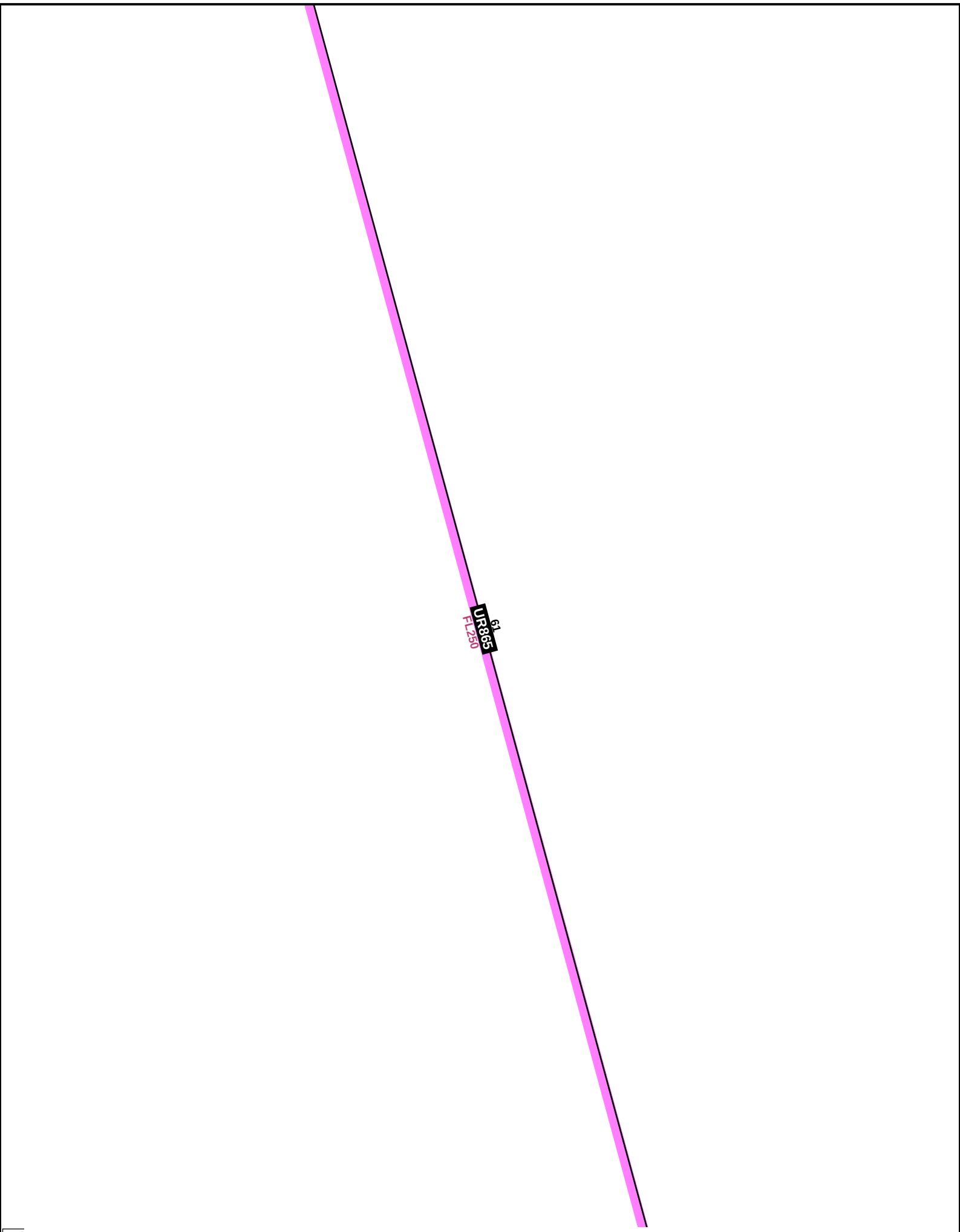

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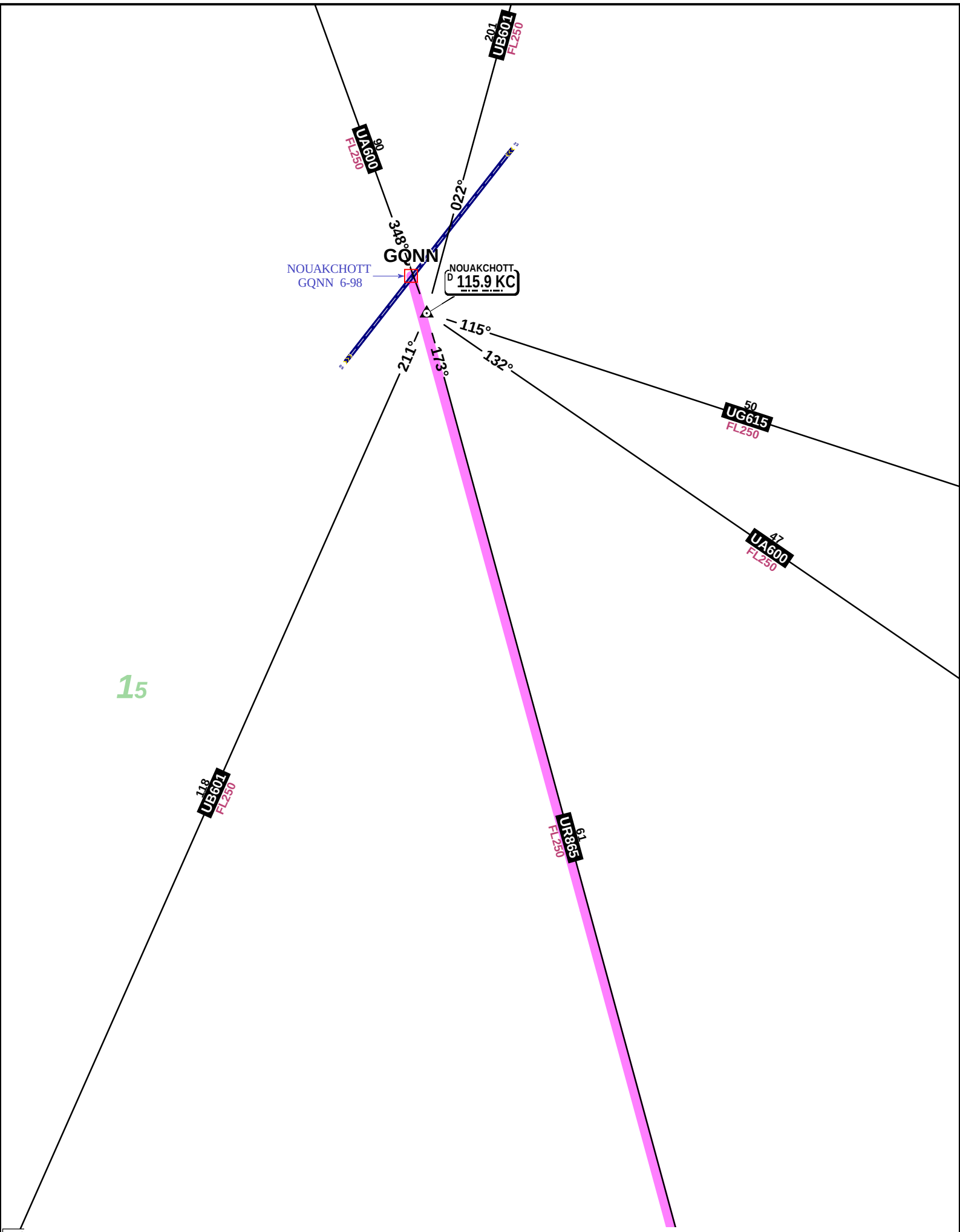

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GGOV/OXB
OSVALDO VIERA

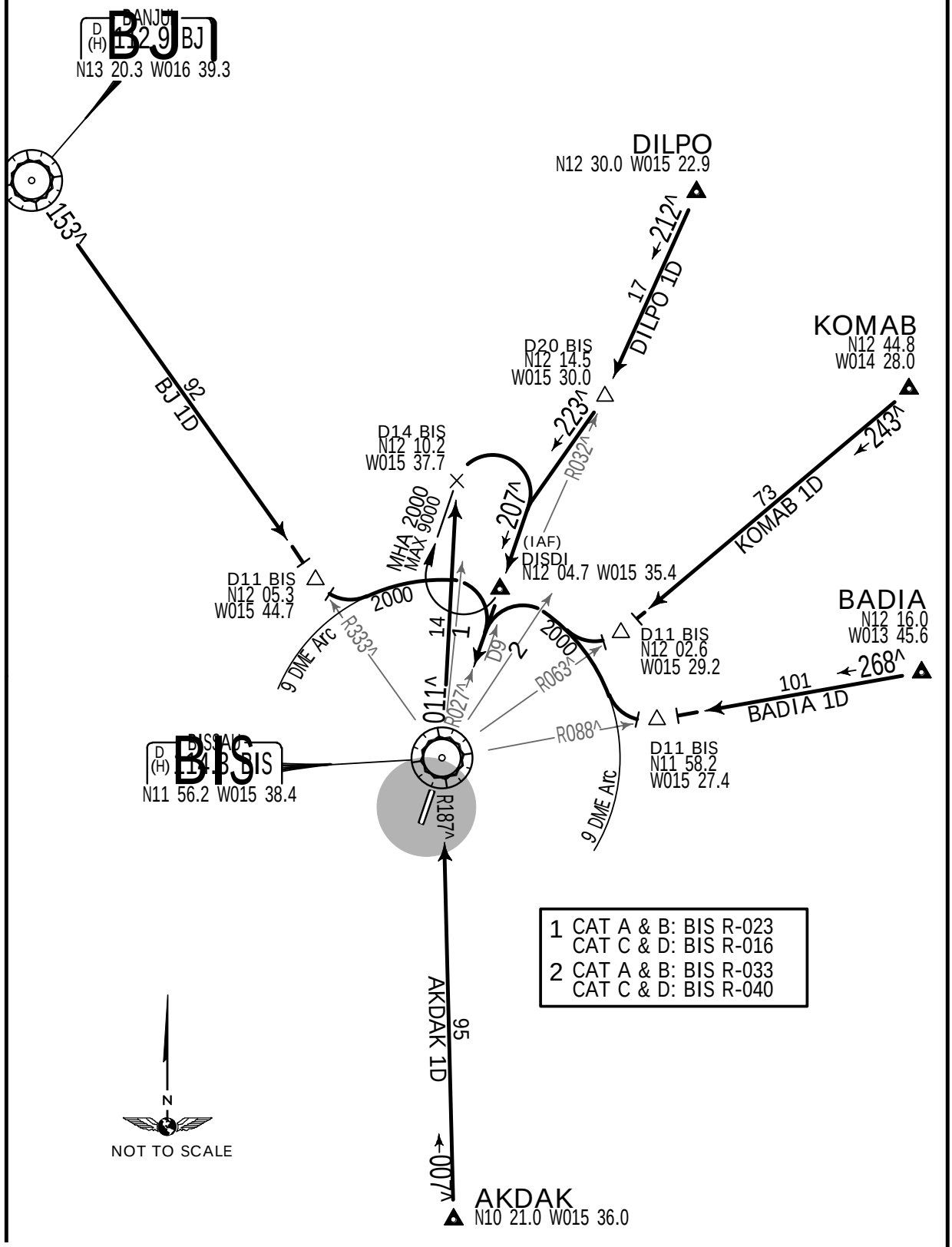
JEPPESEN
22 NOV 13 (10-2)

BISSAU, GUINEA-BISSAU
.STAR.

Apt Elev 129'	Alt Set: hPa	Trans level: By ATC	Trans alt: 3000'

1600'
MSA
BIS VOR

AKDAK 1D [AKDA1D], BADIA 1D [BADI1D]
BJ 1D, DILPO 1D [DILP1D]
KOMAB 1D [KOMA1D]
RWY 21 ARRIVALS



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GGOV/OXB
OSVALDO VIERA

JEPPESEN

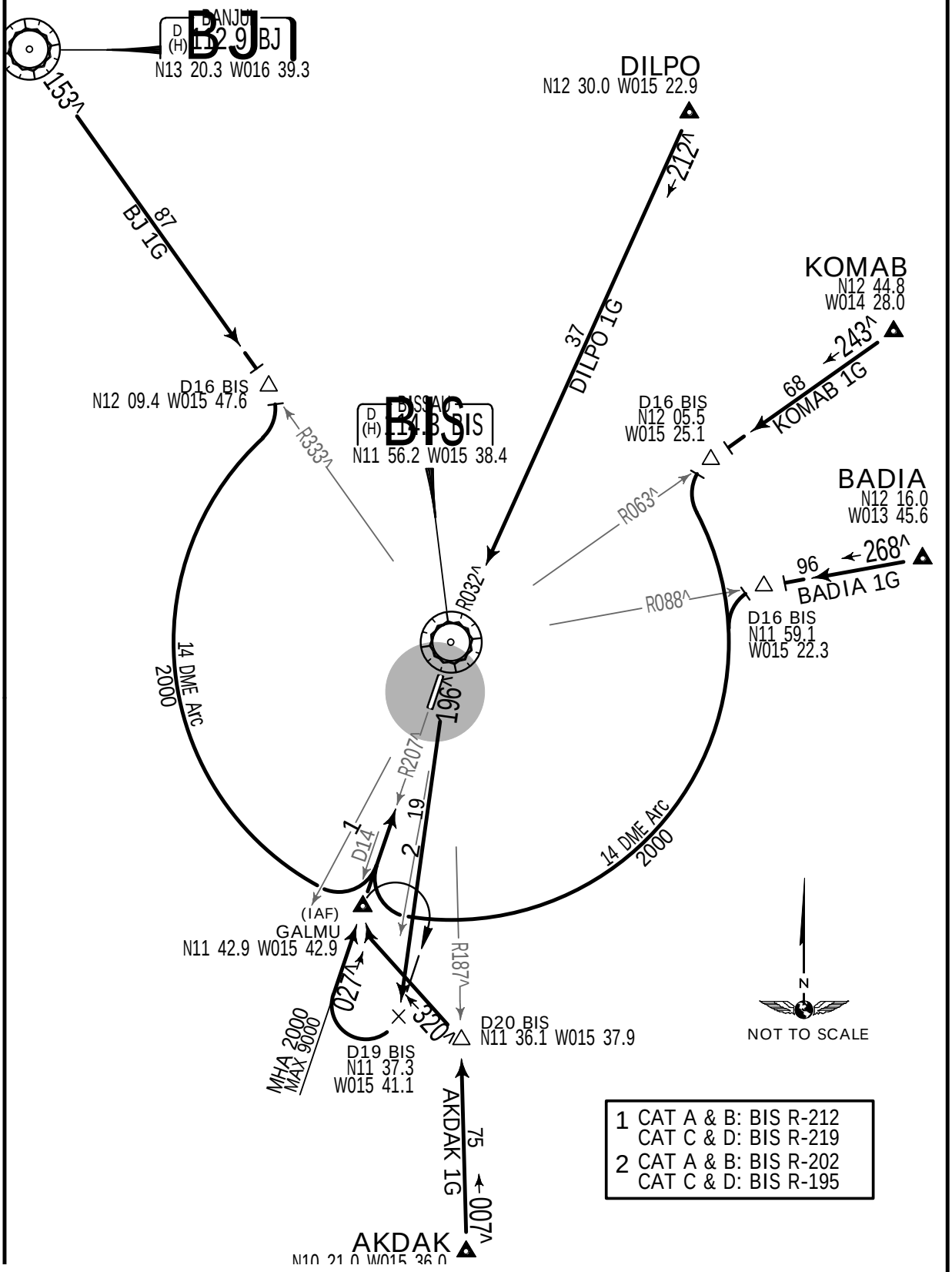
22 NOV 13 (10-2A)

BISSAU, GUINEA-BISSAU
.STAR.

Apt Elev	Alt Set: hPa	Trans level: By ATC	Trans alt: 3000'
129'			

1600'
MSA
BIS VOR

AKDAK 1G [AKDA1G], BADIA 1G [BADI1G]
BJ 1G, DILPO 1G [DILP1G]
KOMAB 1G [KOMA1G]
RWY 03 ARRIVALS



1 CAT A & B: BIS R-212
CAT C & D: BIS R-219
2 CAT A & B: BIS R-202
CAT C & D: BIS R-195

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OSVALDO VIERA

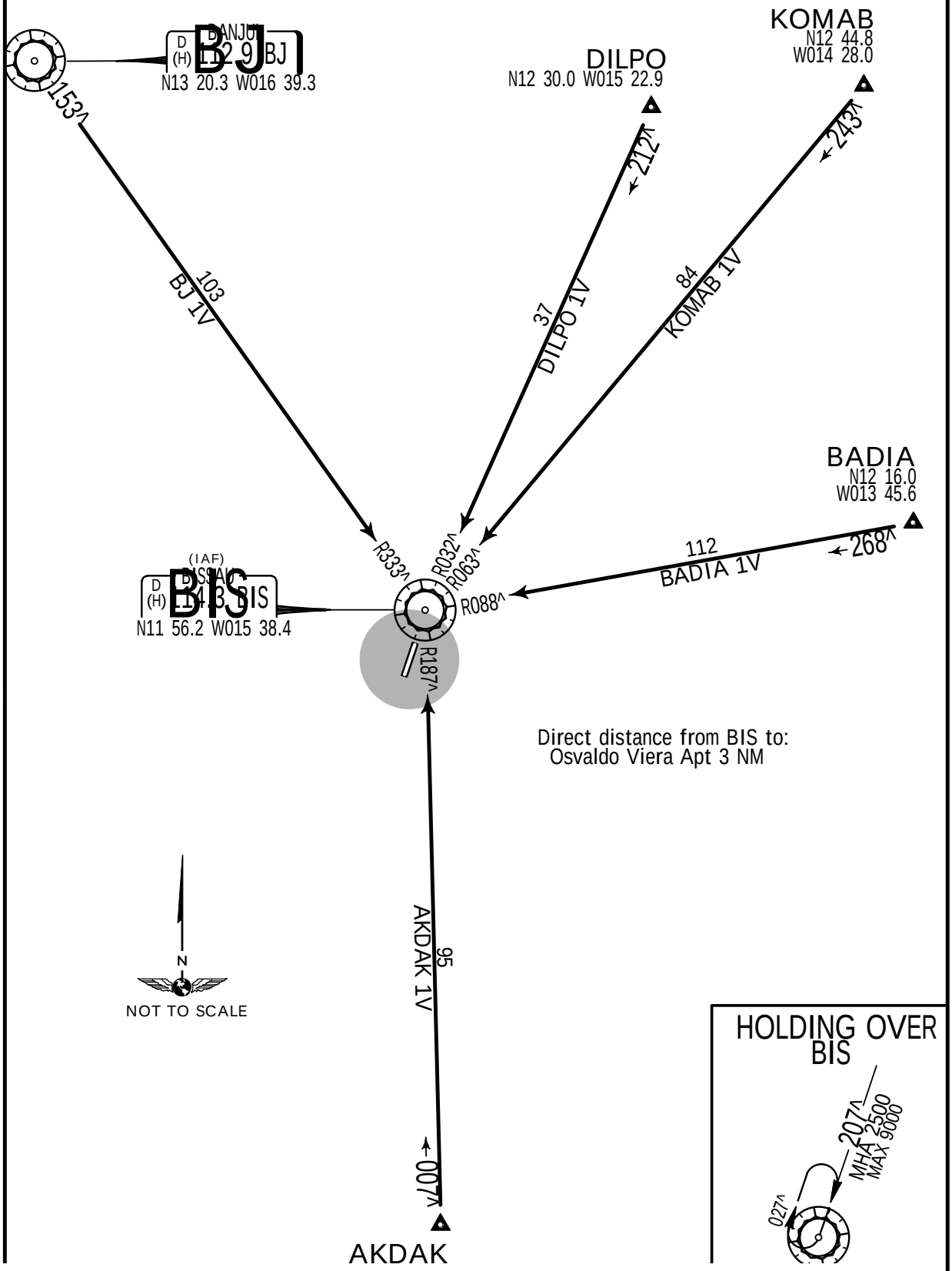
JEPPESEN
22 NOV 13 (10-2B)

BISSAU, GUINEA-BISSAU
.STAR.

Apt Elev 129'	Alt Set: hPa	Trans level: By ATC	Trans alt: 3000'

1600'
MSA
BIS VOR

AKDAK 1V [AKDA1V], BADIA 1V [BADI1V]
BJ 1V, DILPO 1V [DILP1V]
KOMAB 1V [KOMA1V]
RWYS 03, 21 ARRIVALS



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GGOV/OXB
OSVALDO VIERA

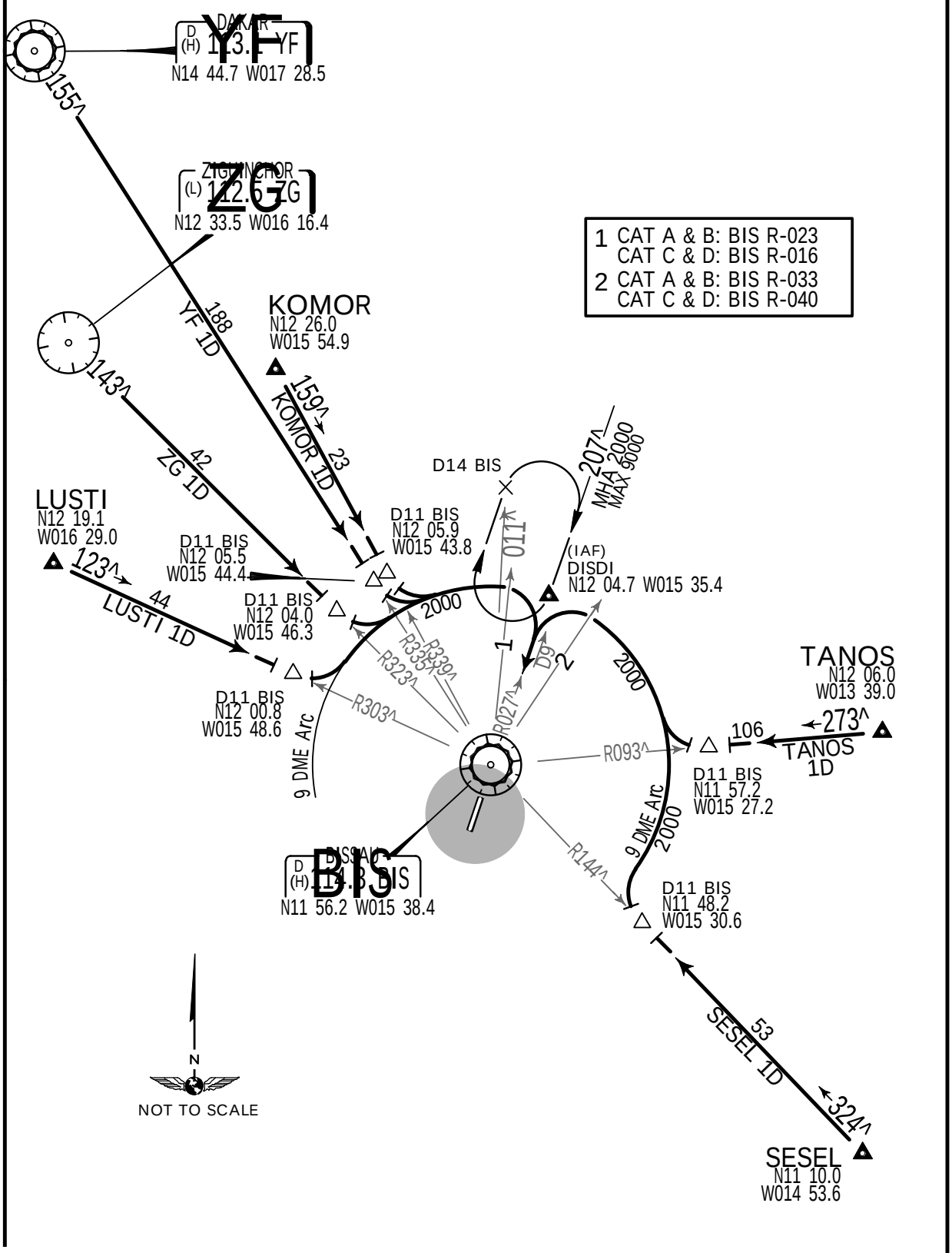
JEPPESEN
22 NOV 13 (10-2C)

BISSAU, GUINEA-BISSAU
.STAR.

Apt Elev 129'	Alt Set: hPa	Trans level: By ATC	Trans alt: 3000'

MSA BIS VOR: 1600'

KOMOR 1D [KOMO1D], LUSTI 1D [LUST1D]
SESEL 1D [SESE1D], TANOS 1D [TANO1D]
YF 1D, ZG 1D
RWY 21 ARRIVALS



1 CAT A & B: BIS R-023
CAT C & D: BIS R-016
2 CAT A & B: BIS R-033
CAT C & D: BIS R-040

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OSVALDO VIERA

JEPPESEN
22 NOV 13 (10-2D)

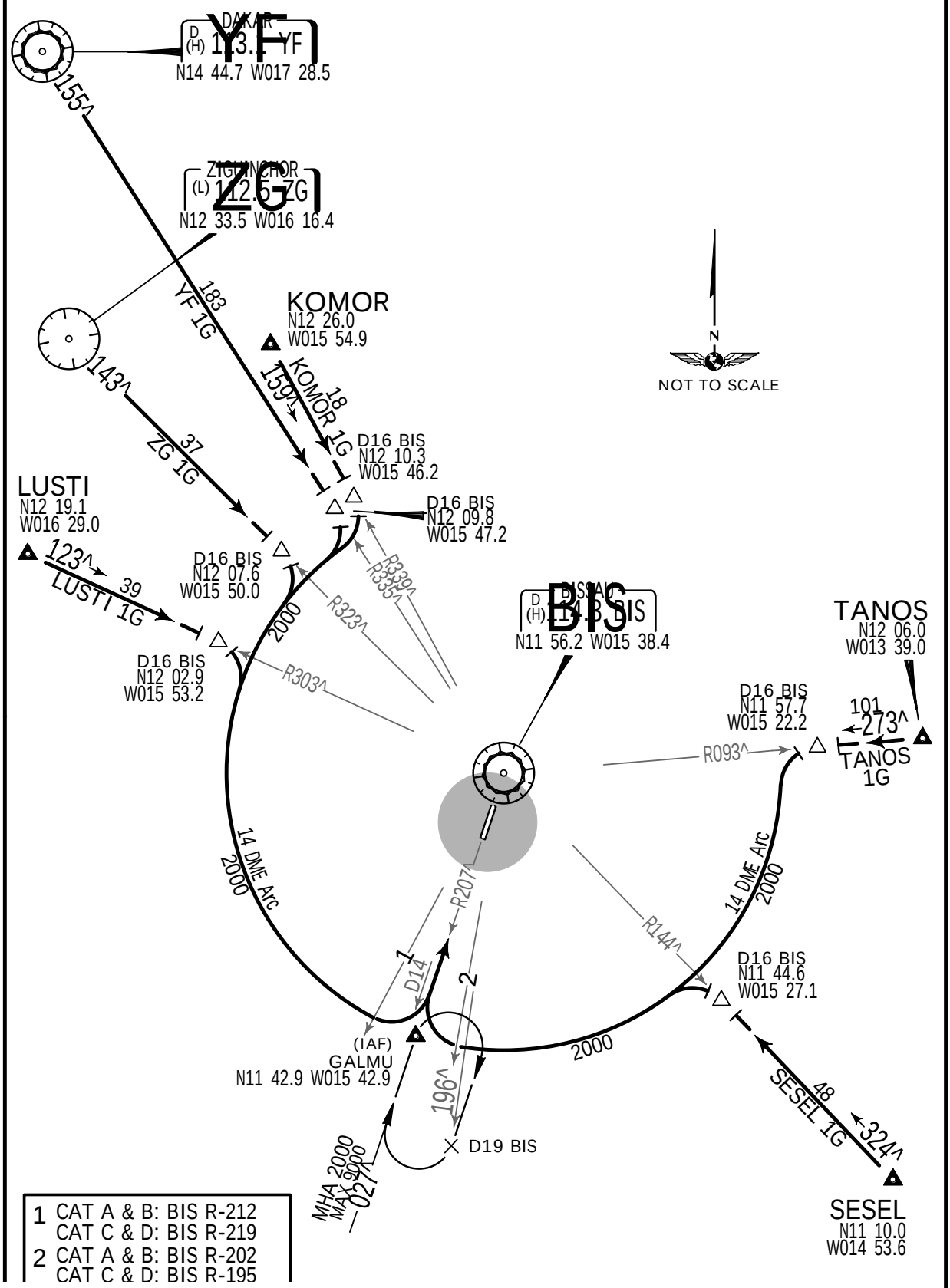
BISSAU, GUINEA-BISSAU
.STAR.

Apt Elev 129'

Alt Set: hPa Trans level: By ATC Trans alt: 3000'

1600'
MSA
BIS VOR

KOMOR 1G [KOMO1G], LUSTI 1G [LUST1G]
SESEL 1G [SESE1G], TANOS 1G [TANO1G]
YF 1G, ZG 1G
RWY 03 ARRIVALS



1 CAT A & B: BIS R-212
CAT C & D: BIS R-219
2 CAT A & B: BIS R-202
CAT C & D: BIS R-195

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OSVALDO VIERA

JEPPESEN
22 NOV 13 10-2E

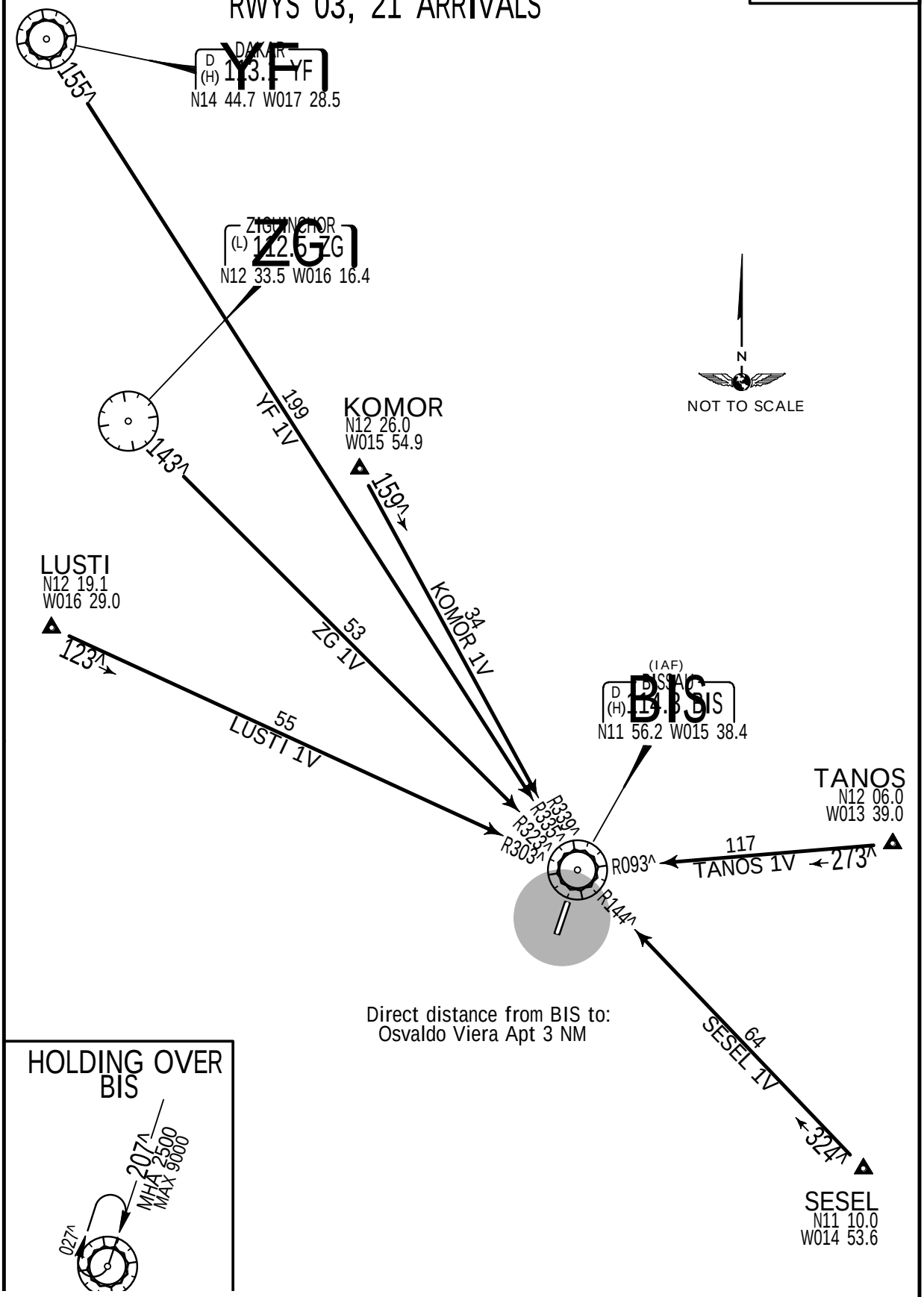
BISSAU, GUINEA-BISSAU
.STAR.

Apt Elev 129'

Alt Set: hPa Trans level: By ATC Trans alt: 3000'

1600'
MSA
BIS VOR

KOMOR 1V[KOMO1V], LUSTI 1V[LUST1V]
SESEL 1V[SESE1V], TANOS 1V[TANO1V]
YF 1V, ZG 1V
RWYS 03, 21 ARRIVALS



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OSVALDO VIERA

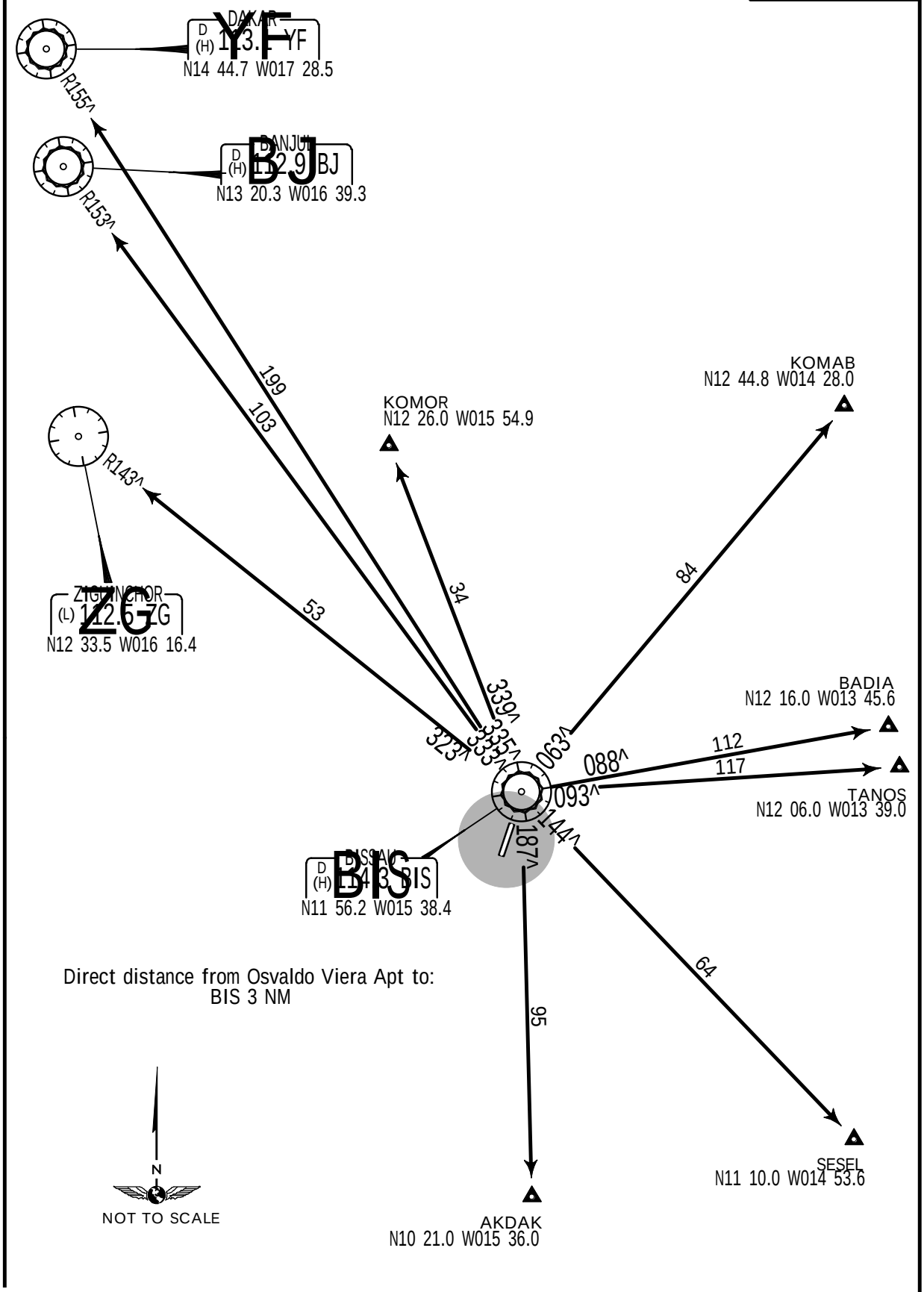
JEPPESEN
22 NOV 13 (10-3)

BISSAU, GUINEA-BISSAU
.DEPARTURE.

Apt Elev	Trans level: By ATC Trans alt: 3000'
129'	

1600'
MSA
BIS VOR

NON AIRWAY DEPARTURES



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GGOV/OXB BISSAU, GUINEA-BISSAU

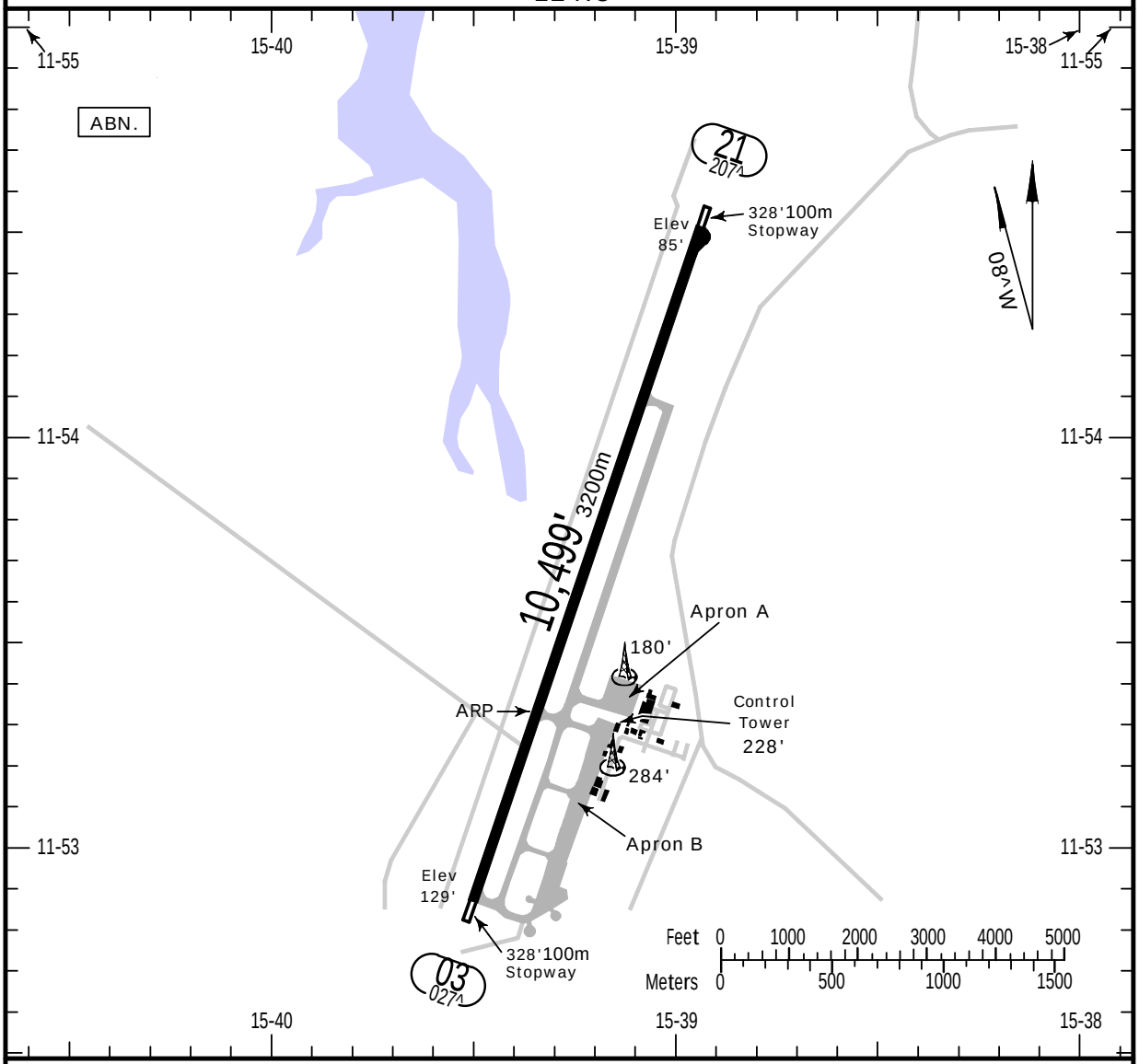
Apt Elev 129'
N11 53.3 W015 39.3

JEPPESEN 25 JUL 14 (10-9)

OSVALDO VIERA

*BISSAU Tower

124.3



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS LANDING BEYOND Threshold	Glide Slope	TAKE-OFF	WIDTH
03	RL(60m) PAPI-L(angle 3.0^)				148' 45m
21	RL(60m) HIALS 1 PAPI-L(angle 3.0^)		9466' 2885m		

1 Configuration unknown.

.JAR-OPS.

TAKE-OFF

All Rwys

	RCLM (DAY only) or RL	NIL (DAY only)
A B C D	400m	500m

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GGOV/OXB

JEPPESEN

1 NOV 13
.Eff.14.Nov.
10-9S

Standard

BISSAU, GUINEA-BISSAU

OSVALDO VIERA

STRAIGHT-IN RWY		A	B	C	D
03	RNAV (LNAV/VNAV)	380'(251') R1300m	380'(251') R1300m	380'(251') R1300m	380'(251') R1300m
	RNAV (LNAV) 1	530'(401') R1500m	530'(401') R1500m	530'(401') R1900m	530'(401') R1900m
	VOR 1 via GALMU	530'(401') R1500m	530'(401') R1500m	530'(401') R1900m	530'(401') R2000m
	VOR 1	580'(451') R1500m	580'(451') R1500m	580'(451') C2100m	580'(451') C2100m
	VOR	580'(451') C2300m	580'(451') C2300m	580'(451') C2500m	580'(451') C2500m
21	ILS ALS out	285'(200') R750m R1200m	285'(200') R750m R1200m	285'(200') R750m R1200m	295'(210') R750m R1200m
	LOC 1 ALS out	420'(335') R1200m R1500m	420'(335') R1300m R1500m	420'(335') R1400m R1800m	420'(335') R1600m R2000m
	RNAV (LNAV/VNAV) ALS out	340'(255') R1000m R1500m	340'(255') R1100m R1500m	340'(255') R1200m R1600m	340'(255') R1400m R1800m
	RNAV (LNAV) 1 ALS out	430'(345') R1200m R1500m	430'(345') R1300m R1500m	430'(345') R1400m R1800m	430'(345') R1600m R2000m
	VOR 1 via DISDI ALS out	390'(305') R1200m R1500m	390'(305') R1300m R1500m	390'(305') R1400m R1800m	390'(305') R1600m R2000m
	VOR ALS out	430'(345') R1400m R1800m	430'(345') R1400m R1800m	430'(345') R1600m R2000m	430'(345') R1800m R2000m

1 Continuous Descent Final Approach.

CIRCLE-TO-LAND 2	100 KT	135 KT	180 KT	205 KT
	580'(451') V1500m 3	770'(641') V1600m 3	870'(741') V2400m	870'(741') V3600m

2 NIGHT: NOT AUTHORIZED.
3 or higher minimums of preceding straight-in approach.

TAKE-OFF RWY 03, 21

	RCLM (DAY only) or RL	NIL (DAY only)
A B C D	400m	500m

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OSVALDO VIERA

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1 NOV 13
.Eff.14.Nov.
11-1

BISSAU, GUINEA-BISSAU
ILS Z or LOC Z Rwy 21

BRIEFING STRIP ™

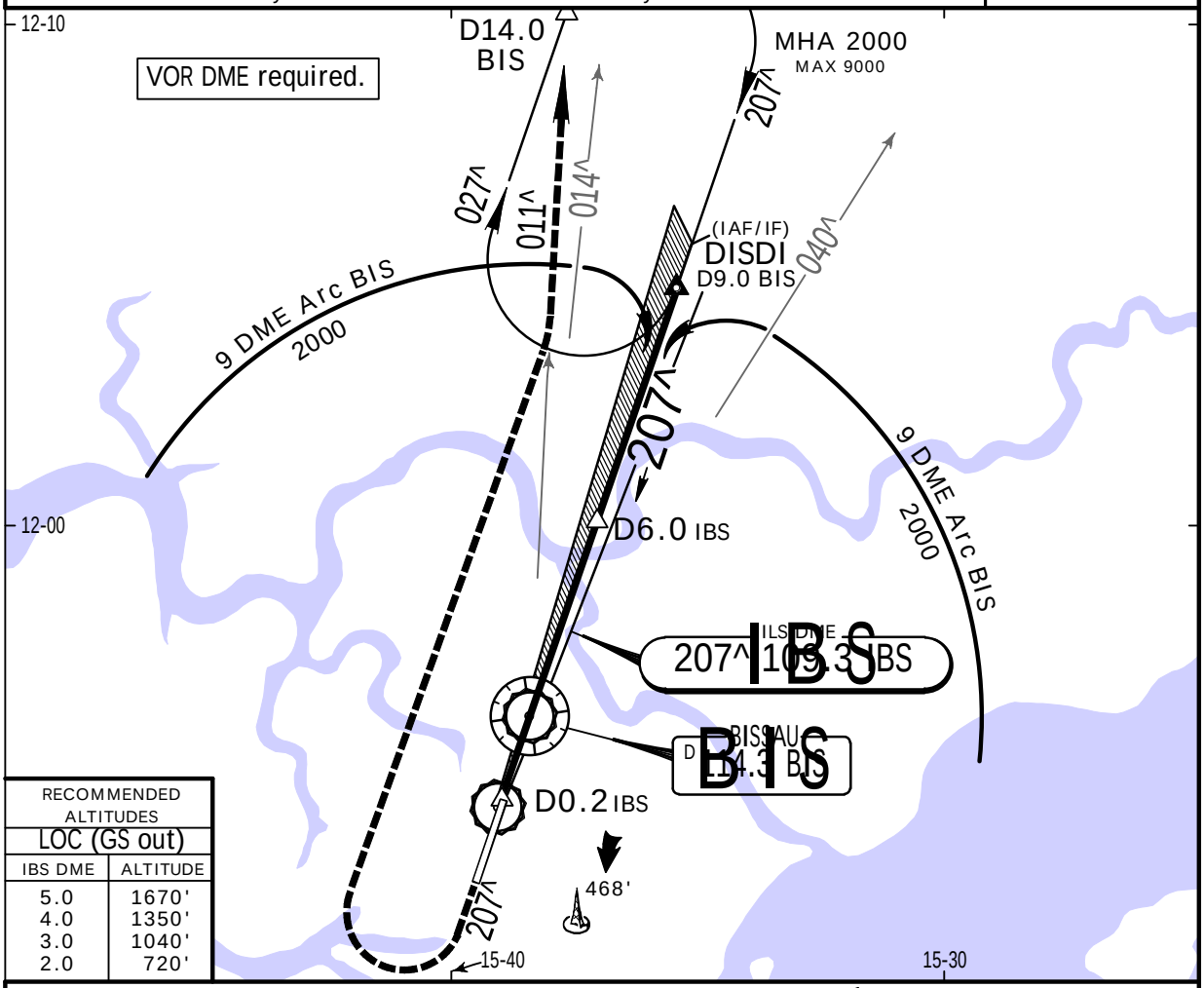
*BISSAU Control (APP)	*BISSAU Tower
123.9	124.3

LOC IBS	Final Apch Crs	GS D6.0 IBS	ILS DA(H) Refer to Minimums	Apt Elev 129' RWY 85'
109.3	207^	2000' (1915')		

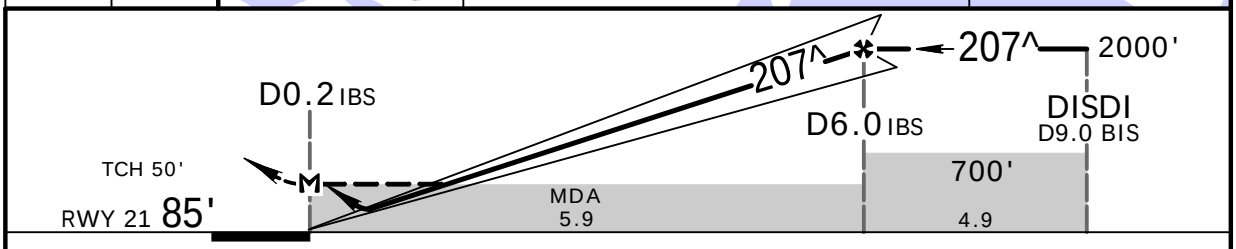
MISSED APCH: Climb STRAIGHT AHEAD to 1000', then turn RIGHT climbing to 2000', intercept and follow R-011 BIS to join DISDI holding. Do not turn before MAP.

Alt Set: hPa Rwy Elev: 3 hPa Trans level: By ATC Trans alt: 3000'

1600'
MSA BIS VOR



RECOMMENDED ALTITUDES LOC (GS out)	
IBS DME	ALTITUDE
5.0	1670'
4.0	1350'
3.0	1040'
2.0	720'



Gnd speed-Kts	70	90	100	120	140	160		HIALS PAPI-L	Refer to Missed Apch above
ILS GS or LOC Descent Angle 3.00^	372	478	531	637	743	849			
MAP at D0.2 IBS									

.JAR-OPS.

ILS STRAIGHT-IN LANDING RWY 21

DA(H) ABC: 285' (200') D: 295' (210')

LOC (GS out) MDA(H) 420' (335')

	FULL	ALS out		ALS out	CIRCLE-TO-LAND Max Kts	DAY MDA(H) VIS	NIGHT
A	RVR 700m	RVR 1000m	RVR 1200m	RVR 1500m	100	580' (451') 1500m	NOT AUTH
B			RVR 1300m		135	770' (641') 1600m	
C			RVR 1400m	RVR 1800m	180	870' (741') 2400m	
D			RVR 1600m	RVR 2000m	205	870' (741') 3600m	

NS OPS

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OSVALDO VIERA

JEPPESEN
1 NOV 13
.Eff.14.Nov.
11-2

BISSAU, GUINEA-BISSAU
ILS Y or LOC Y Rwy 21

BRIEFING STRIP ™

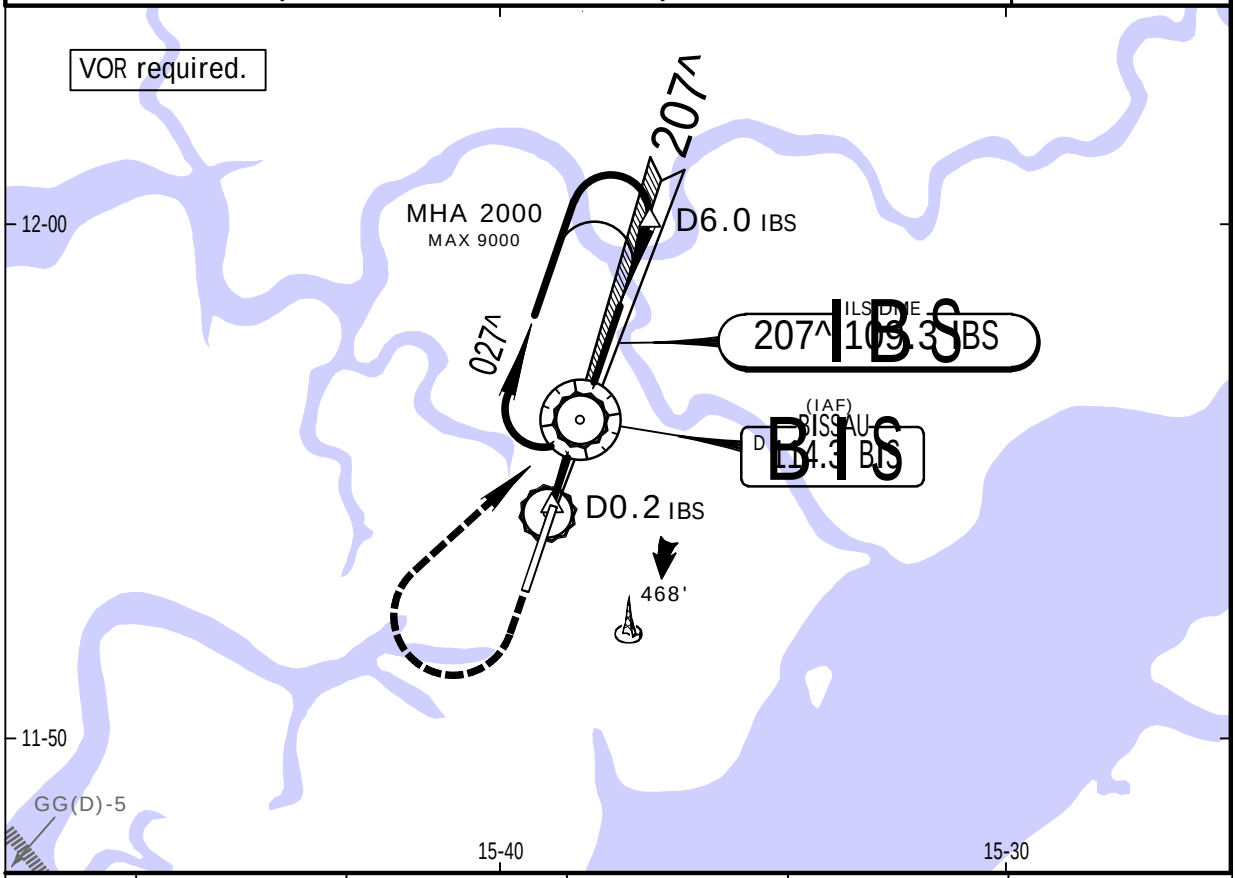
*BISSAU Control (APP)	*BISSAU Tower
123.9	124.3

LOC IBS	Final Apch Crs	GS D6.0 IBS	ILS DA(H)	Apt Elev 129'
109.3	207^	2000' (1915')	Refer to Minimums	RWY 85'

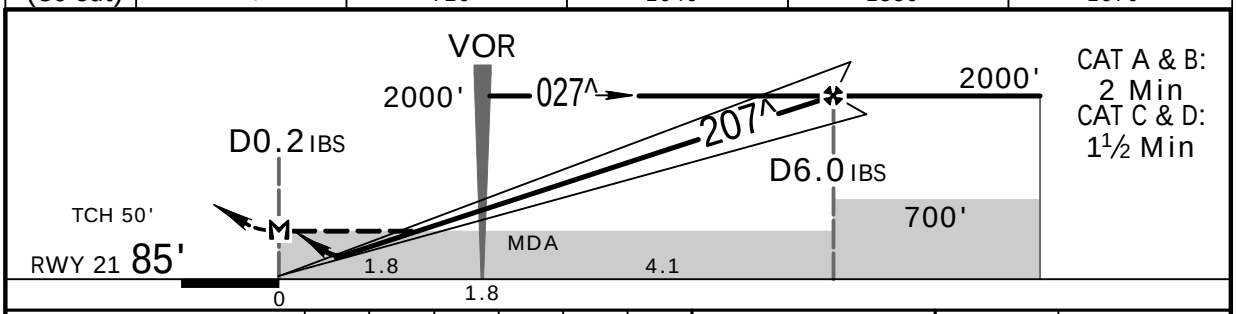
MISSED APCH: Climb STRAIGHT AHEAD to 1000', then turn RIGHT climbing to 2000' and join VOR. Do not turn before MAP.

Alt Set: hPa | Rwy Elev: 3 hPa | Trans level: By ATC | Trans alt: 3000'

1600'
MSA BIS VOR



LOC (GS out)	IBS DME	2.0	3.0	4.0	5.0
	ALTITUDE	720'	1040'	1350'	1670'



CAT A & B: 2 Min
CAT C & D: 1½ Min

Gnd speed-Kts	70	90	100	120	140	160
ILS GS or LOC Descent Angle 3.00^	372	478	531	637	743	849
MAP at D0.2 IBS						

HIALS
PAPI-L

Refer to Missed Apch above

.JAR-OPS.

ILS STRAIGHT-IN LANDING RWY 21

DA(H) ABC: 285' (200')
D: 295' (210')

LOC (GS out)
MDA(H) 420' (335')

	FULL	ALS out		ALS out
A	RVR 700m	RVR 1000m	RVR 1200m	RVR 1500m
B			RVR 1300m	
C			RVR 1400m	RVR 1800m
D			RVR 1600m	RVR 2000m

CIRCLE-TO-LAND

Max Kts	DAY MDA(H)	DAY VIS	NIGHT
100	580' (451')	1500m	NOT AUTH
135	770' (641')	1600m	
180	870' (741')	2400m	
205	870' (741')	3600m	

NS OPS

CHANGES: New procedure.

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GGOV/OXB
OSVALDO VIERA

JEPPESEN
1 NOV 13
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11-3

BISSAU, GUINEA-BISSAU
ILS X or LOC X Rwy 21

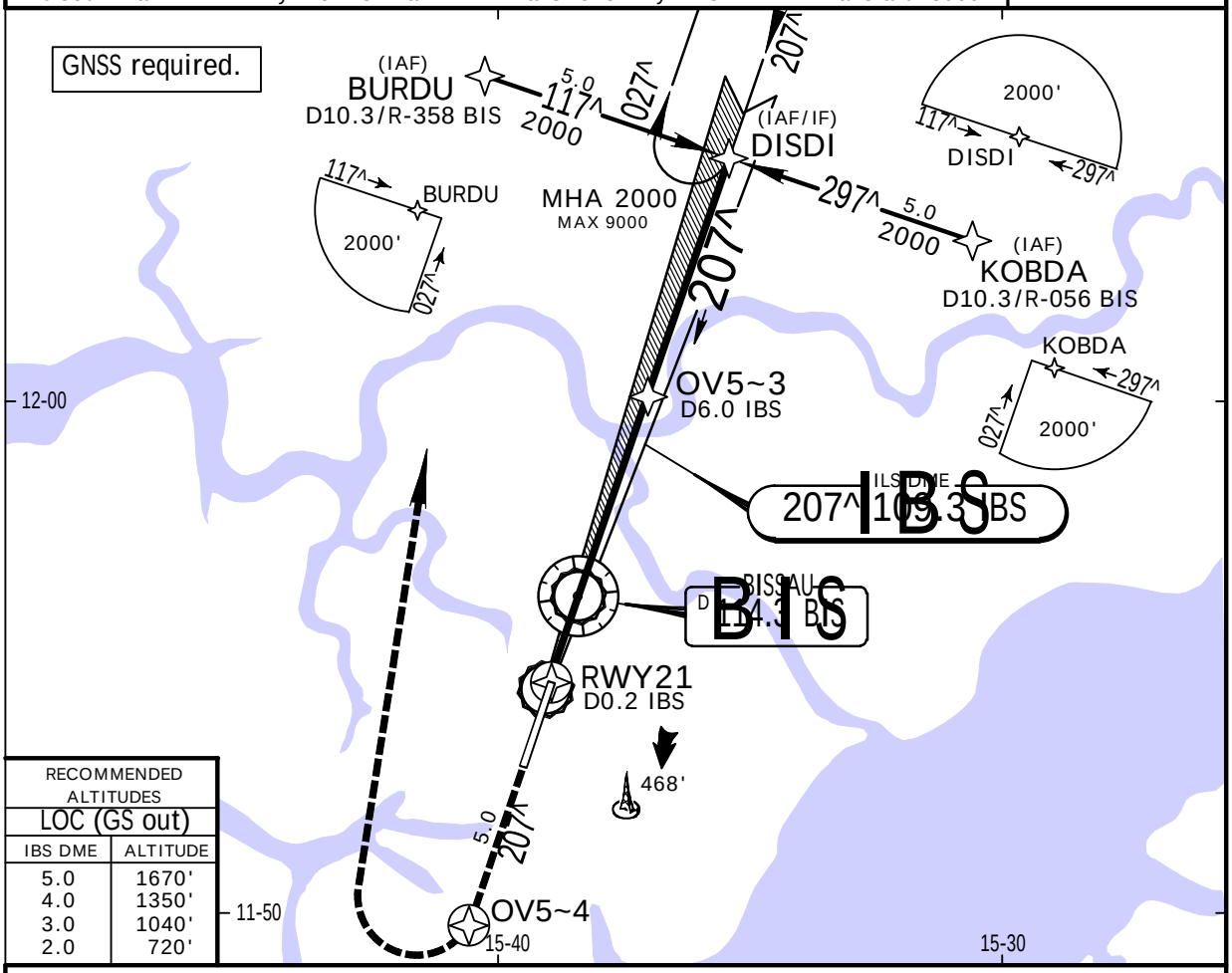
BRIEFING STRIP ™

*BISSAU Control (APP)	*BISSAU Tower
123.9	124.3

LOC IBS	Final Apch Crs	GS OV5~3	ILS DA(H) Refer to Minimums	Apt Elev 129' RWY 85'	TAA 25 NM IAF
109.3	207^	2000' (1915')			

MISSED APCH: Climb STRAIGHT AHEAD to OV5~4, then turn RIGHT direct to BURDU at 2000'.

Alt Set: hPa Rwy Elev: 3 hPa Trans level: By ATC Trans alt: 3000'



RECOMMENDED ALTITUDES LOC (GS out)	
IBS DME	ALTITUDE
5.0	1670'
4.0	1350'
3.0	1040'
2.0	720'

Gnd speed-Kts	70	90	100	120	140	160
ILS GS or LOC Descent Angle 3.00^	372	478	531	637	743	849
MAP at D0.2 IBS						

HIALS
PAPI-L
OV5~4

JAR-OPS.

STRAIGHT-IN LANDING RWY 21

	ILS	LOC (GS out)
DA(H)	ABC: 285' (200') D: 295' (210')	MDA(H) 420' (335')

	ILS FULL	ILS ALS out	LOC (GS out)	LOC (GS out) ALS out
A	RVR 700m	RVR 1000m	RVR 1200m	RVR 1500m
B			RVR 1300m	
C			RVR 1400m	RVR 1800m
D			RVR 1600m	RVR 2000m

CIRCLE-TO-LAND

Max Kts	DAY MDA(H)	DAY VIS	NIGHT
100	580' (451')	1500m	NOT AUTH
135	770' (641')	1600m	
180	870' (741')	2400m	
205	870' (741')	3600m	

NS OPS

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GGOV/OXB
OSVALDO VIERA

JEPPESEN
1 NOV 13
.Eff.14.Nov.
12-1

BISSAU, GUINEA-BISSAU
RNAV (GNSS) Rwy 03

BRIEFING STRIP ™

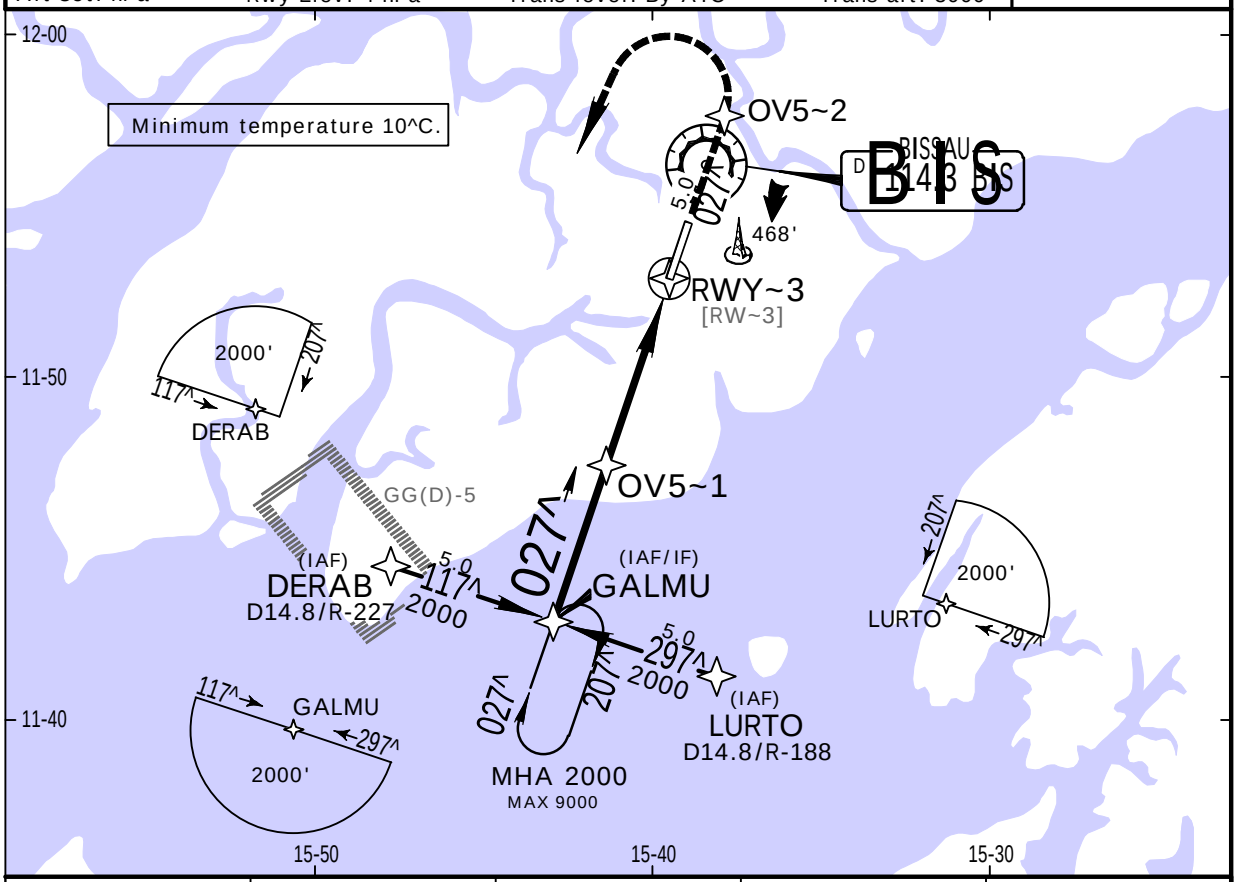
*BISSAU Control (APP)	*BISSAU Tower
123.9	124.3

RNAV	Final Apch Crs	Procedure Alt OV5~1	LNAV/VNAV DA(H)	Apt Elev 129'
	027^	2000' (1871')	380' (251')	RWY 129'

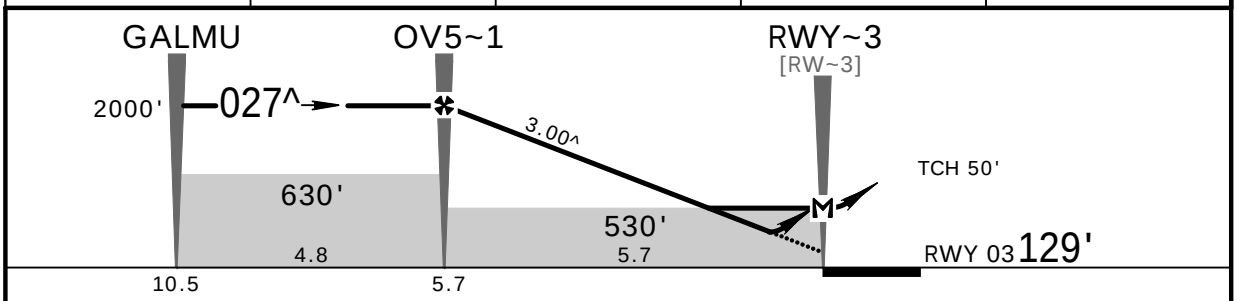
MISSED APCH: Climb STRAIGHT AHEAD to OV5~2, then turn LEFT climbing direct to DERAB at 2000'.

TAA
25 NM
IAF

Alt Set: hPa Rwy Elev: 4 hPa Trans level: By ATC Trans alt: 3000'



DIST to RWY~3	5.0	4.0	3.0	2.0
ALTITUDE	1770'	1460'	1140'	820'



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.00^	372	478	531	637	743	849
MAP at RWY~3						

PAPI-L

OV5~2

JAR-OPS.

STRAIGHT-IN LANDING RWY 03

	LNAV/VNAV DA(H) 380' (251')	LNAV MDA(H) 530' (401')
A	RVR 1500m	RVR 1500m
B		
C	RVR 1600m	RVR 1800m
D	RVR 1800m	RVR 2000m

CIRCLE-TO-LAND

Max Kts	DAY MDA(H)	DAY VIS	NIGHT
100	580' (451')	1500m	NOT AUTH
135	770' (641')	1600m	
180	870' (741')	2400m	
205	870' (741')	3600m	

NS OPS

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GGOV/OXB
OSVALDO VIERA

JEPPESEN
1 NOV 13
.Eff.14.Nov.
12-2

BISSAU, GUINEA-BISSAU
RNAV (GNSS) Rwy 21

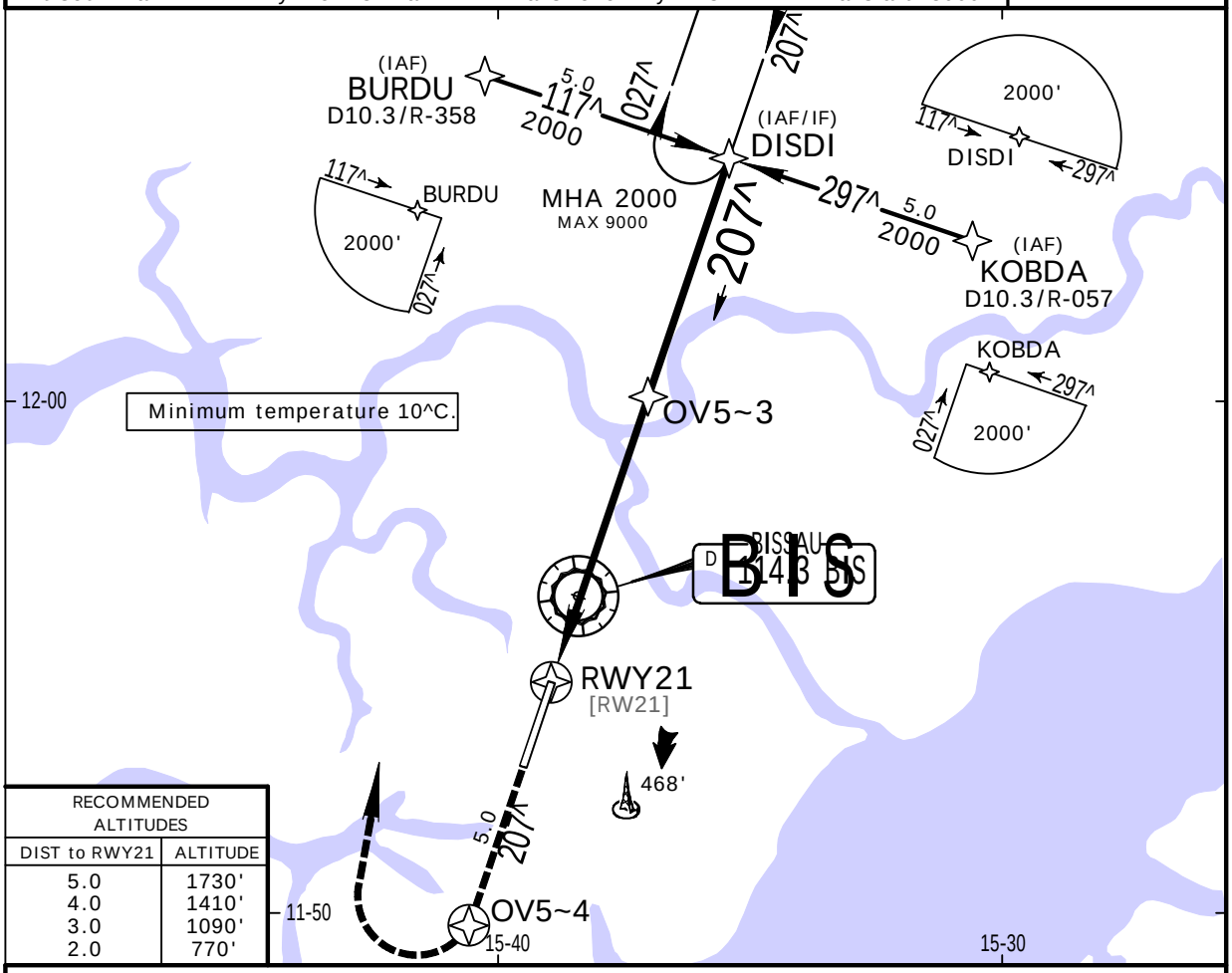
BRIEFING STRIP ™

*BISSAU Control (APP)	*BISSAU Tower
123.9	124.3

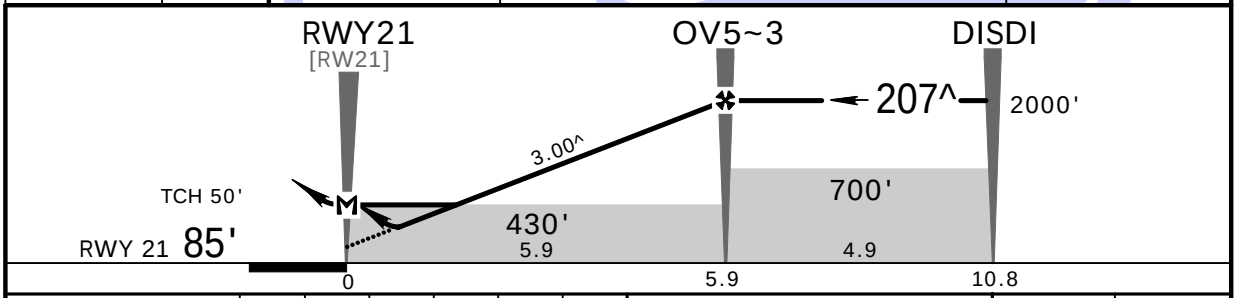
RNAV	Final Apch Crs	Procedure Alt OV5~3	LNAV/VNAV DA(H)	Apt Elev 129' RWY 85'	TAA 25 NM IAF
	207^	2000' (1915')	340' (255')		

MISSED APCH: Climb STRAIGHT AHEAD to OV5~4, then turn RIGHT climbing direct to BURDU at 2000'.

Alt Set: hPa Rwy Elev: 3 hPa Trans level: By ATC Trans alt: 3000'



RECOMMENDED ALTITUDES	
DIST to RWY21	ALTITUDE
5.0	1730'
4.0	1410'
3.0	1090'
2.0	770'



Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.00^	372	478	531	637	743	849
MAP at RWY21						

HIALS
PAPI-L

OV5~4

.JAR-OPS. STRAIGHT-IN LANDING RWY 21

	LNAV/VNAV DA(H) 340' (255')		LNAV MDA(H) 430' (345')		CIRCLE-TO-LAND DAY			NIGHT
		ALS out		ALS out	Max Kts	MDA(H)	VIS	
A	RVR 1000m	RVR 1500m	RVR 1200m	RVR 1500m	100	580' (451')	1500m	NOT AUTH
B	RVR 1100m		RVR 1300m		135	770' (641')	1600m	
C	RVR 1200m	RVR 1600m	RVR 1400m	RVR 1800m	180	870' (741')	2400m	
D	RVR 1400m	RVR 1800m	RVR 1600m	RVR 2000m	205	870' (741')	3600m	

NS OPS

CHANGES: Minimums.

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GGOV/OXB
OSVALDO VIERA

JEPPESEN
4 OCT 13 (13-1)

BISSAU, GUINEA-BISSAU
via GALMU VOR Rwy 03

BRIEFING STRIP ™

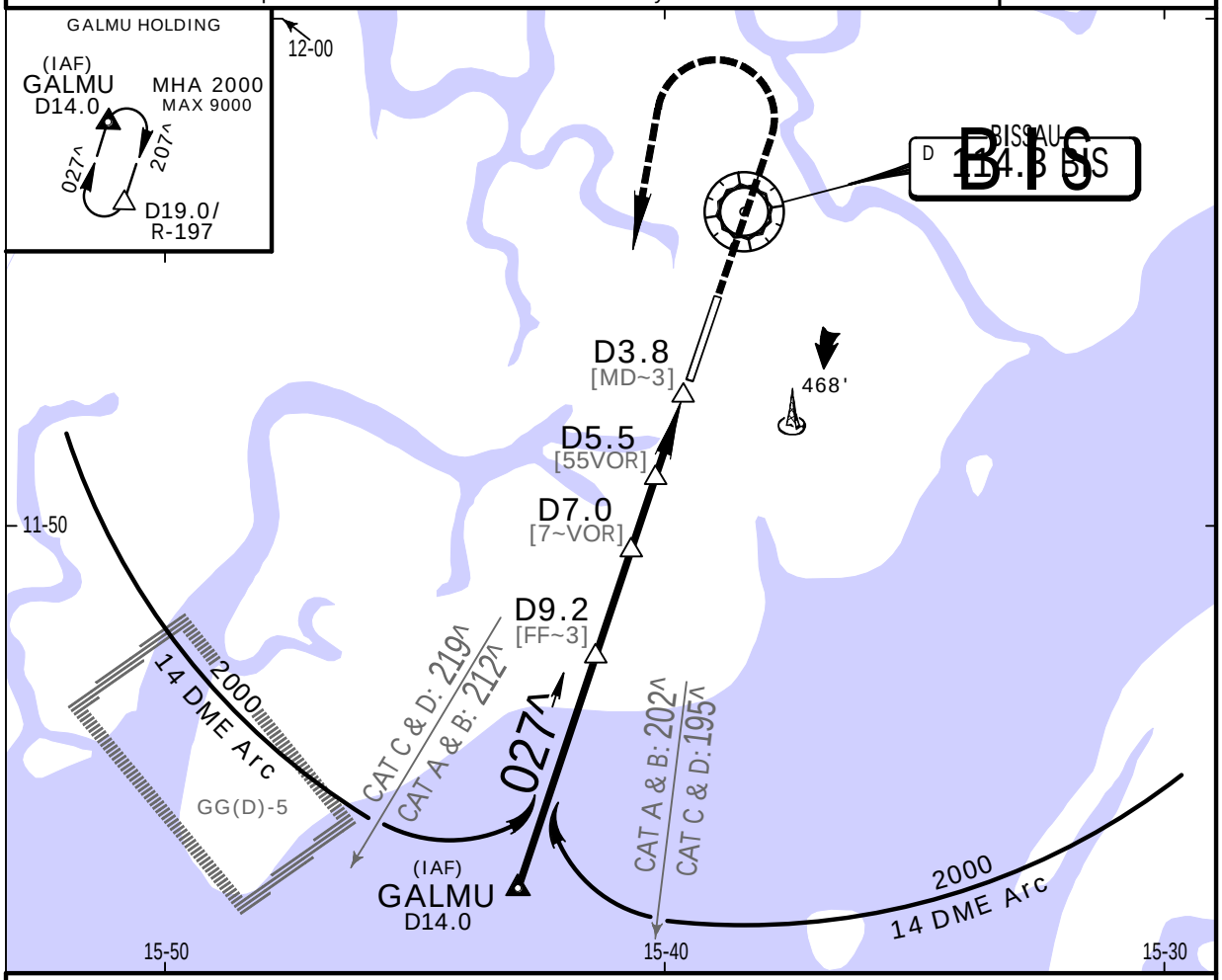
*BISSAU Control (APP)	*BISSAU Tower
123.9	124.3

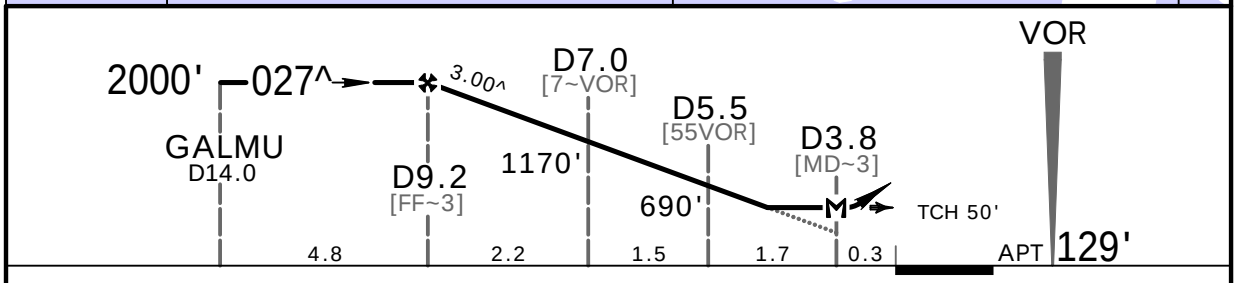
VOR	Final Apch Crs	Minimum Alt D9.2	MDA(H)	Apt Elev
BIS 114.3	027^	2000' (1871')	530' (401')	129'

MISSED APCH: Climb STRAIGHT AHEAD to 1600', then climbing turn LEFT to 2000' and rejoin GALMU.

Alt Set: hPa | Apt Elev: 4 hPa | Trans level: By ATC | Trans alt: 3000'

1600'
MSA BIS VOR





Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.00^	372	478	531	637	743	849
MAP at D3.8						

PAPI-L

1600'

.JAR-OPS.

STRAIGHT-IN LANDING RWY 03

MDA(H) 530' (401')

A	RVR 1500m	
B	RVR 1500m	
C	RVR 1800m	

CIRCLE-TO-LAND

Max Kts	DAY MDA(H)	DAY VIS	NIGHT
100	580' (451')	1500m	NOT AUTH
135	770' (641')	1600m	
180	870' (741')	2400m	

NS OPS

CHANGES: Trails alt; PAPI; minimums.

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GGOV/OXB
OSVALDO VIERA

JEPPESEN 4 OCT 13 (13-2)

BISSAU, GUINEA-BISSAU
VOR Rwy 03

BRIEFING STRIP ™

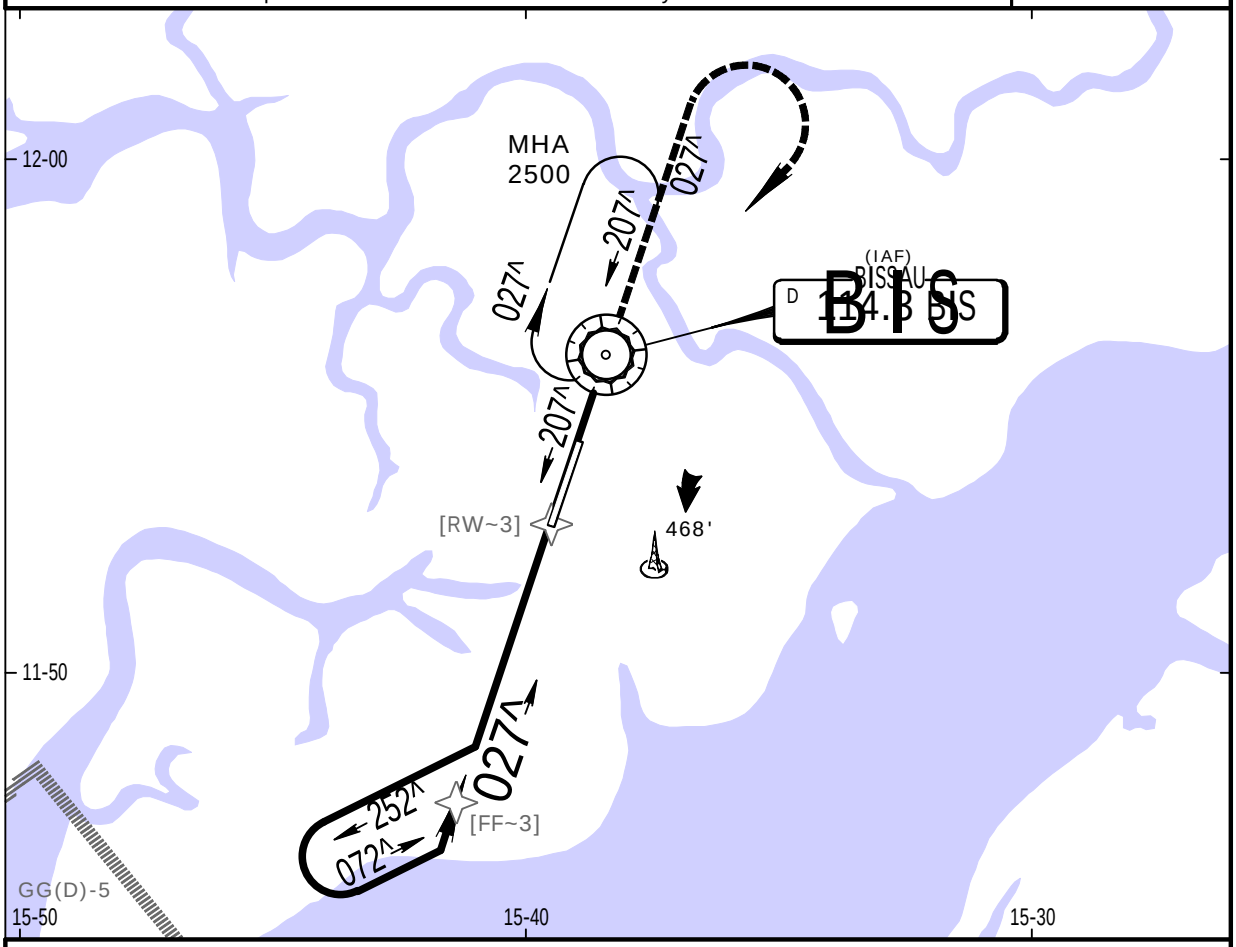
*BISSAU Control (APP)	*BISSAU Tower
123.9	124.3

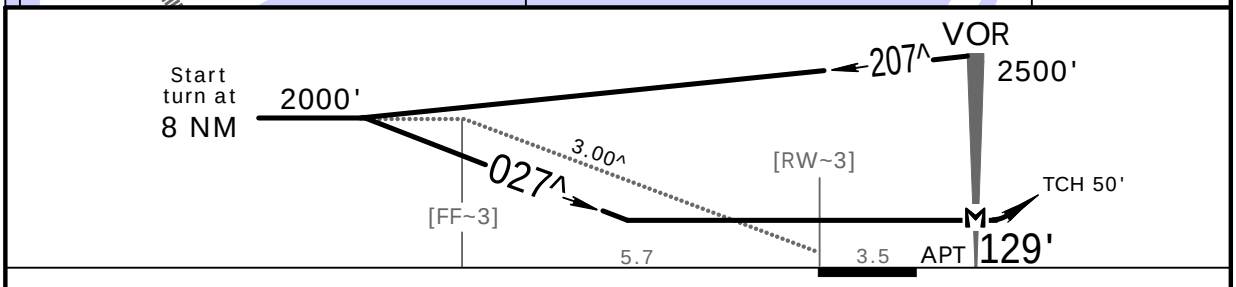
VOR	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev
BIS 114.3	027^	No FAF	580' (451')	129'

MISSED APCH: Climb on 027^ to 1600', then climbing turn RIGHT to 2500' and rejoin VOR.

Alt Set: hPa | Apt Elev: 4 hPa | Trans level: By ATC | Trans alt: 3000'

1600'
MSA BIS VOR





Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.00^	372	478	531	637	743	849
MAP at VOR						

PAPI-L | 1600' on 027^

JAR-OPS. STRAIGHT-IN LANDING RWY 03

MDA(H) 580' (451')

		RVR
A		1500m
B		
C		2000m
D		

CIRCLE-TO-LAND

Max Kts	DAY MDA(H)	DAY VIS	NIGHT
100	580' (451')	1500m	NOT AUTH
135	770' (641')	1600m	
180	870' (741')	2400m	
205	870' (741')	3600m	

NS OPS

CHANGES: Trans alt; PAPI; Minimums.

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GGOV/OXB OSVALDO VIERA

JEPPESEN

1 NOV 13
.Eff.14.Nov. (13-3)

BISSAU, GUINEA-BISSAU via DISDI VOR Rwy 21

*BISSAU Control (APP)	*BISSAU Tower
123.9	124.3

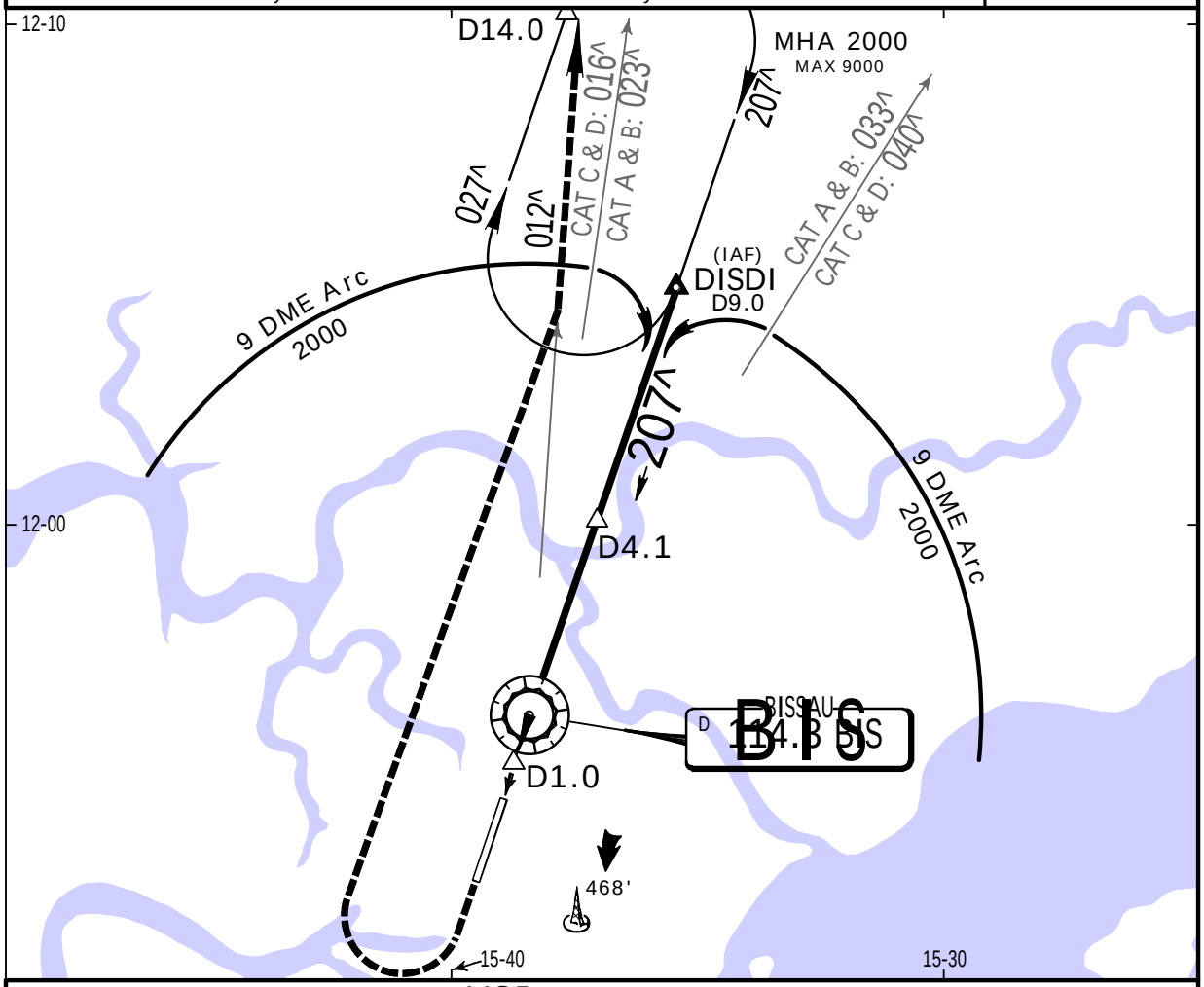
BRIEFING STRIP ™

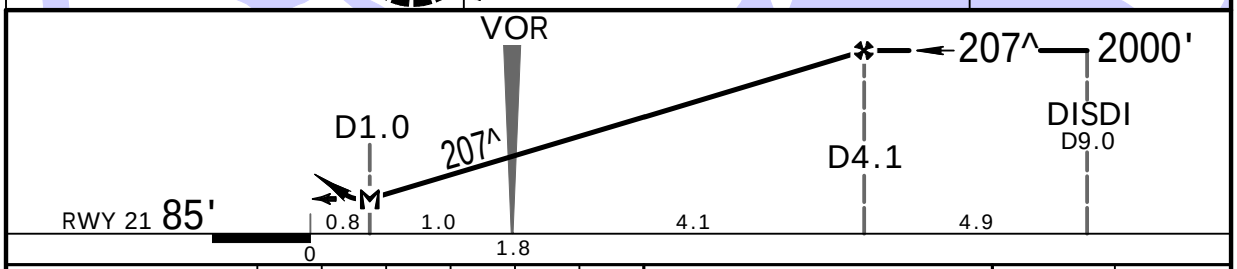
VOR BIS	Final Apch Crs	Minimum Alt D4.1	MDA(H)	Apt Elev / RWY
114.3	207^	2000' (1915')	390' (305')	129' / 85'

MISSED APCH: Climb STRAIGHT AHEAD to 1600', then climbing turn RIGHT to 2000' to intercept R-012 and rejoin DISDI.

Alt Set: hPa Rwy Elev: 3 hPa Trans level: By ATC Trans alt: 3000'

MSA BIS VOR: 1600'





Gnd speed-Kts	70	90	100	120	140	160
Descent Angle 3.00^	372	478	531	637	743	849
MAP at D1.0						

HIALS
PAPI-L

1600'

JAR-OPS. STRAIGHT-IN LANDING RWY 21

MDA(H) 390' (305')

		ALS out	Max Kts	CIRCLE-TO-LAND DAY MDA(H)	VIS	NIGHT
A	RVR 1200m	RVR 1500m	100	580' (451')	1500m	NOT AUTH
B	RVR 1300m		135	770' (641')	1600m	
C	RVR 1400m	RVR 1800m	180	870' (741')	2400m	
D	RVR 1600m	RVR 2000m	205	870' (741')	3600m	

NS OPS

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GGOV/OXB
OSVALDO VIERA

JEPPESEN
1 NOV 13
.Eff.14.Nov.
13-4

BISSAU, GUINEA-BISSAU
VOR Rwy 21

BRIEFING STRIP ™

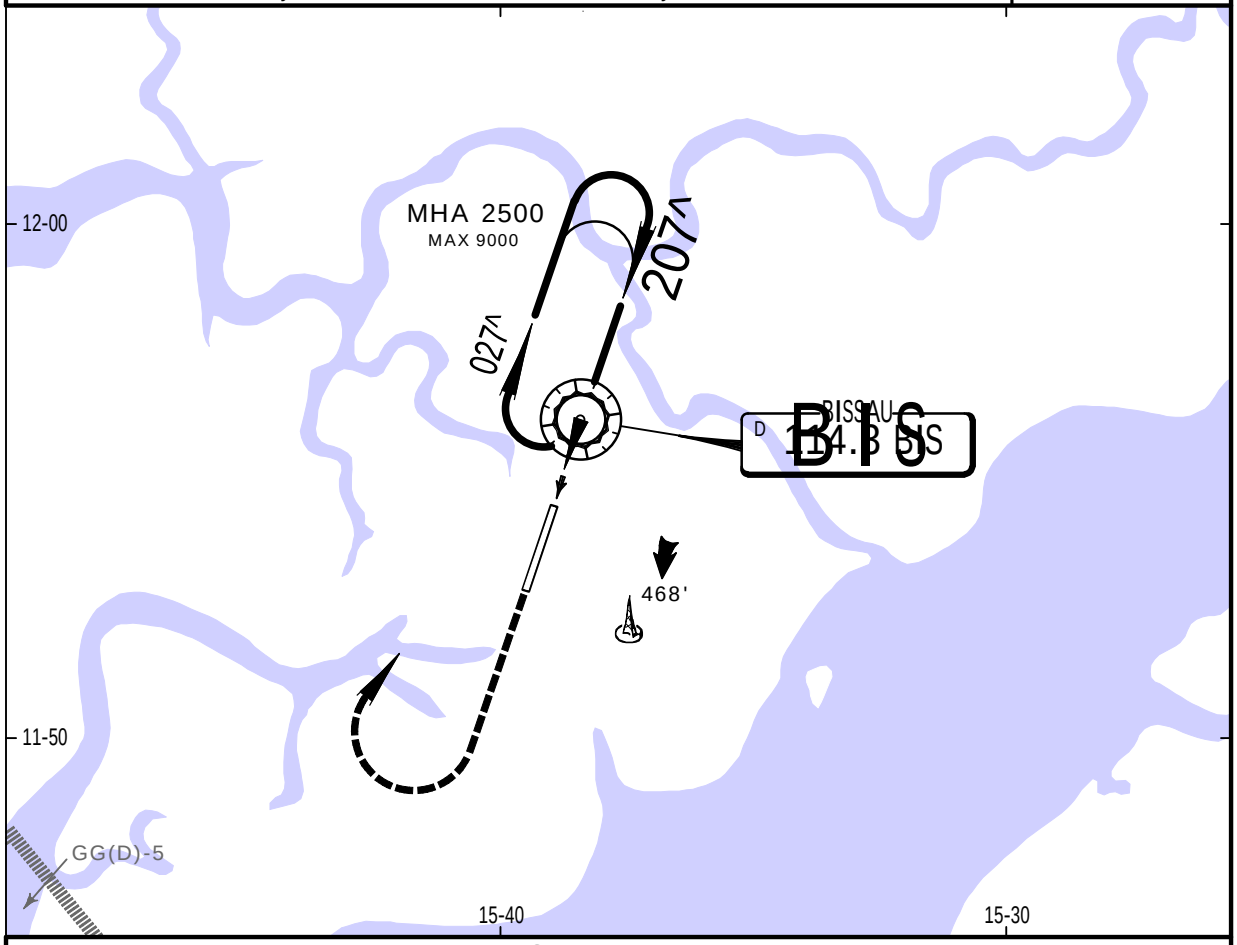
*BISSAU Control (APP)	*BISSAU Tower
123.9	124.3

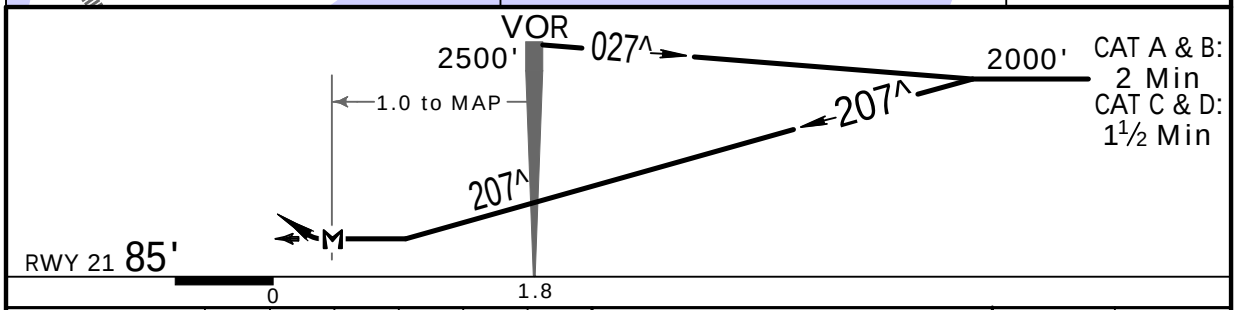
VOR	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev / RWY
BIS 114.3	207^	No FAF	430' (345')	Apt Elev 129' RWY 85'

MISSED APCH: Climb STRAIGHT AHEAD to 1600', then climbing turn RIGHT to 2500' and rejoin VOR.

Alt Set: hPa | Rwy Elev: 3 hPa | Trans level: By ATC | Trans alt: 3000'

1600'
MSA BIS VOR





Gnd speed-Kts	70	90	100	120	140	160
VOR to MAP 1.0	0:51	0:40	0:36	0:30	0:26	0:23

HIALS
PAPI-L

1600'

.JAR-OPS. STRAIGHT-IN LANDING RWY 21

MDA(H) 430' (345')

		ALS out	CIRCLE-TO-LAND Max Kts	DAY MDA(H)	DAY VIS	NIGHT
A	RVR 1300m	RVR 1500m	100	580' (451')	1500m	NOT AUTH
B	RVR 1400m		135	770' (641')	1600m	
C	RVR 1600m	RVR 1800m	180	870' (741')	2400m	
D	RVR 1800m	RVR 2000m	205	870' (741')	3600m	

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GQNN/NKC
NOUAKCHOTT

JEPPESEN 30 SEP 05 10-2

NOUAKCHOTT, MAURITANIA
.STAR.

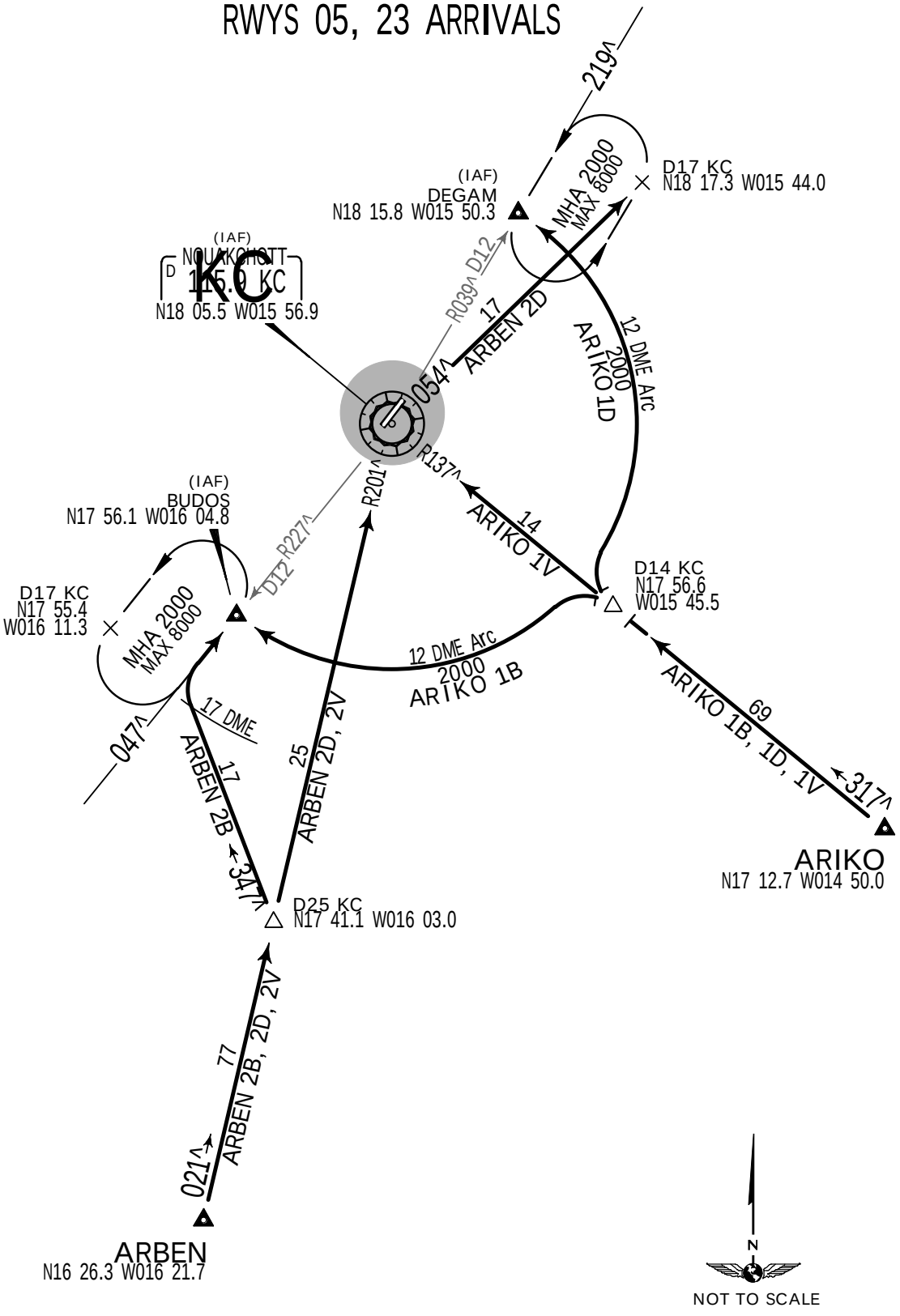
Apt Elev 6'	Alt Set: hPa	Trans level: By ATC	Trans alt: 2000'

2000'
MSA
KC VOR

ARBEN 2B [ARBE2B]
ARIKO 1B [ARIK1B]
RWY 05 ARRIVALS

ARBEN 2D [ARBE2D]
ARIKO 1D [ARIK1D]
RWY 23 ARRIVALS

ARBEN 2V [ARBE2V]
ARIKO 1V [ARIK1V]
RWYS 05, 23 ARRIVALS



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GQNN/NKC
NOUAKCHOTT

JEPPESEN 30 SEP 05 10-2A

NOUAKCHOTT, MAURITANIA
.STAR.

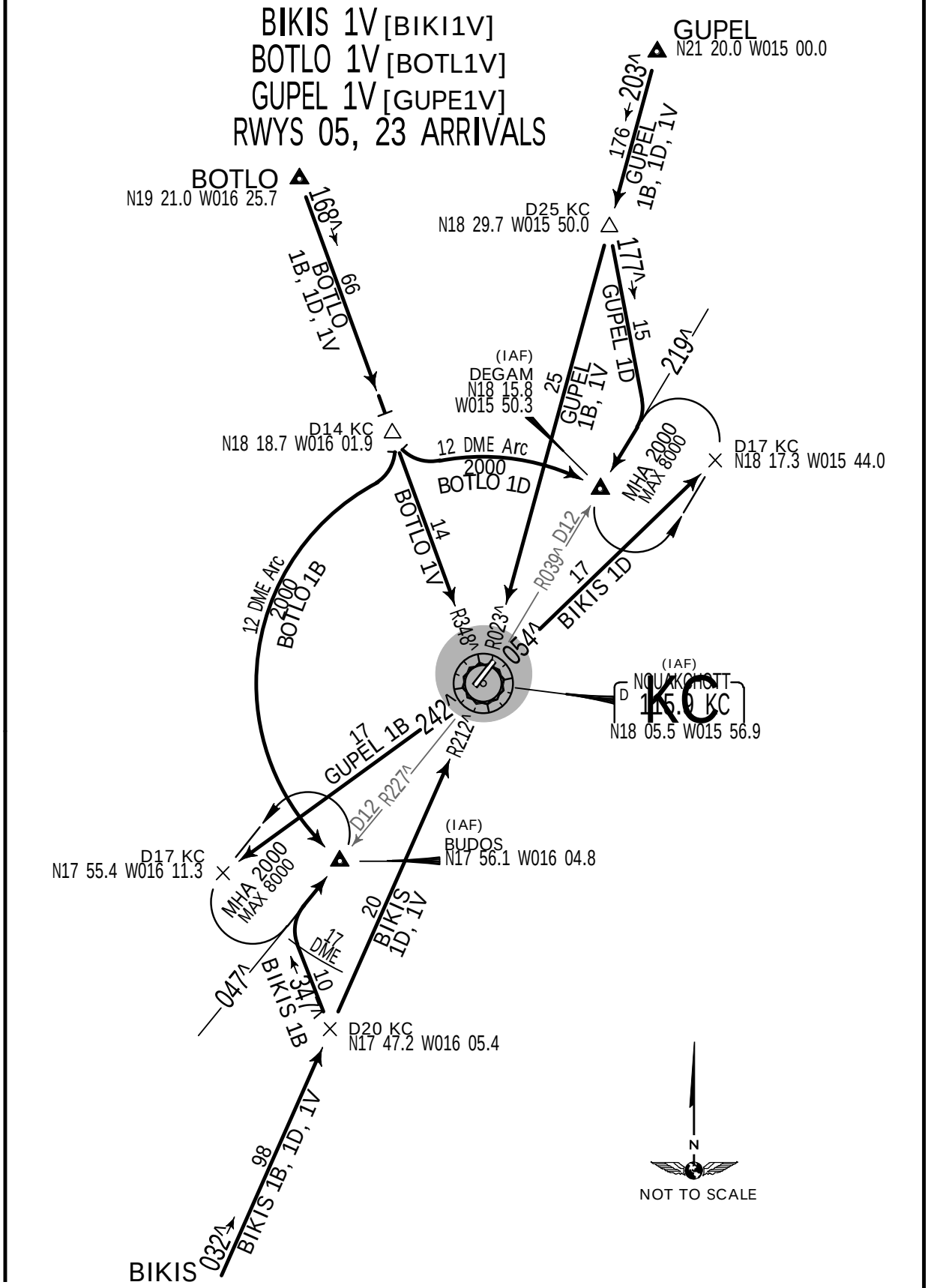
Apt Elev 6'	Alt Set: hPa	Trans level: By ATC	Trans alt: 2000'

2000'
MSA
KC VOR

BIKIS 1B [BIKI1B]
BOTLO 1B [BOTL1B]
GUPEL 1B [GUPE1B]
RWY 05 ARRIVALS

BIKIS 1D [BIKI1D]
BOTLO 1D [BOTL1D]
GUPEL 1D [GUPE1D]
RWY 23 ARRIVALS

BIKIS 1V [BIKI1V]
BOTLO 1V [BOTL1V]
GUPEL 1V [GUPE1V]
RWYS 05, 23 ARRIVALS



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GQNN/NKC
NOUAKCHOTT

JEPPESEN 30 SEP 05 10-2B

NOUAKCHOTT, MAURITANIA
.STAR.

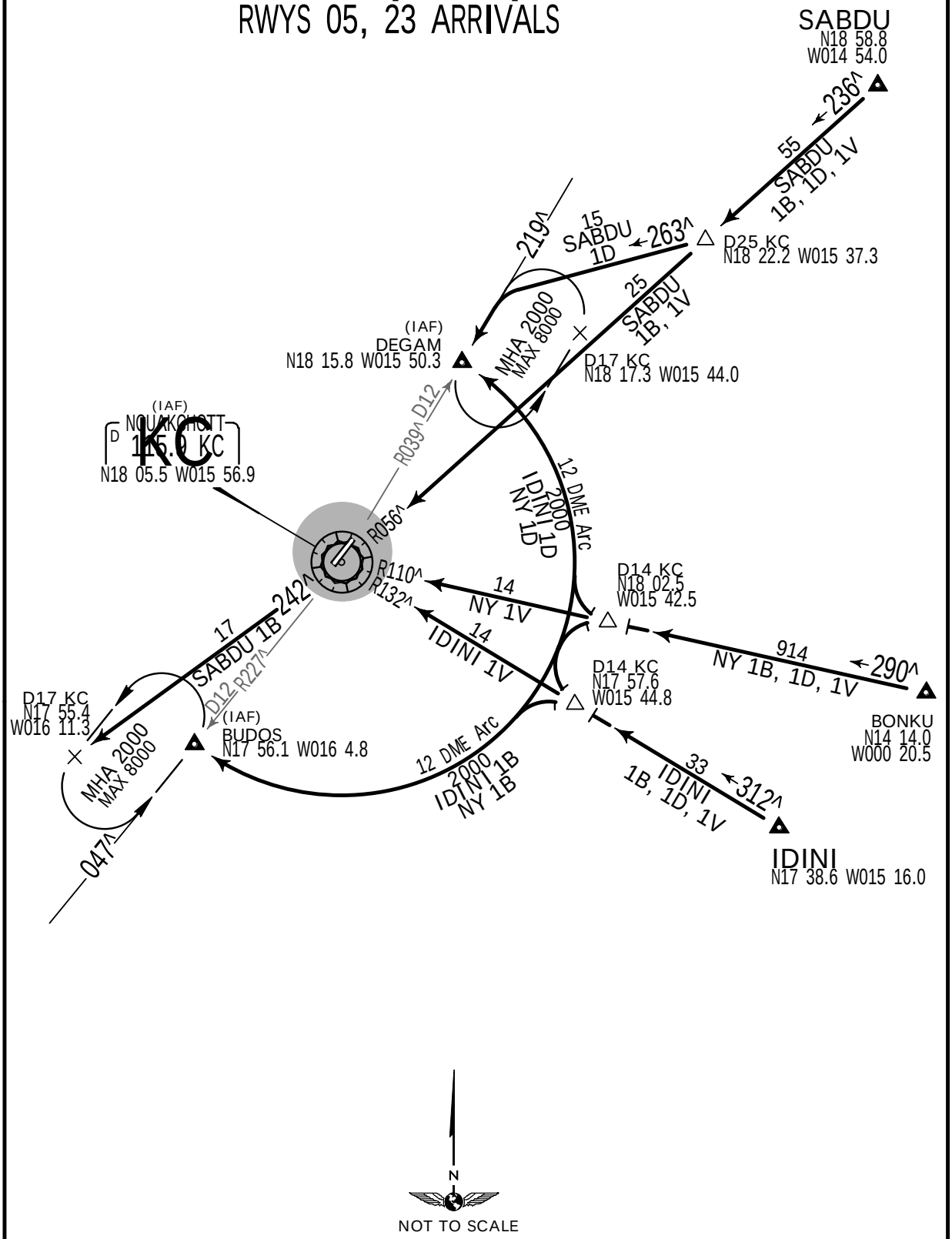
Apt Elev 6'	Alt Set: hPa	Trans level: By ATC	Trans alt: 2000'

2000'
MSA
KC VOR

IDINI 1B [IDIN1B], NY 1B
SABDU 1B [SABD1B]
RWY 05 ARRIVALS

IDINI 1D [IDIN1D], NY 1D
SABDU 1D [SABD1D]
RWY 23 ARRIVALS

IDINI 1V [IDIN1V], NY 1V
SABDU 1V [SABD1V]
RWYS 05, 23 ARRIVALS



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GQNN/NKC
NOUAKCHOTT

JEPPESEN
30 SEP 05 10-2C

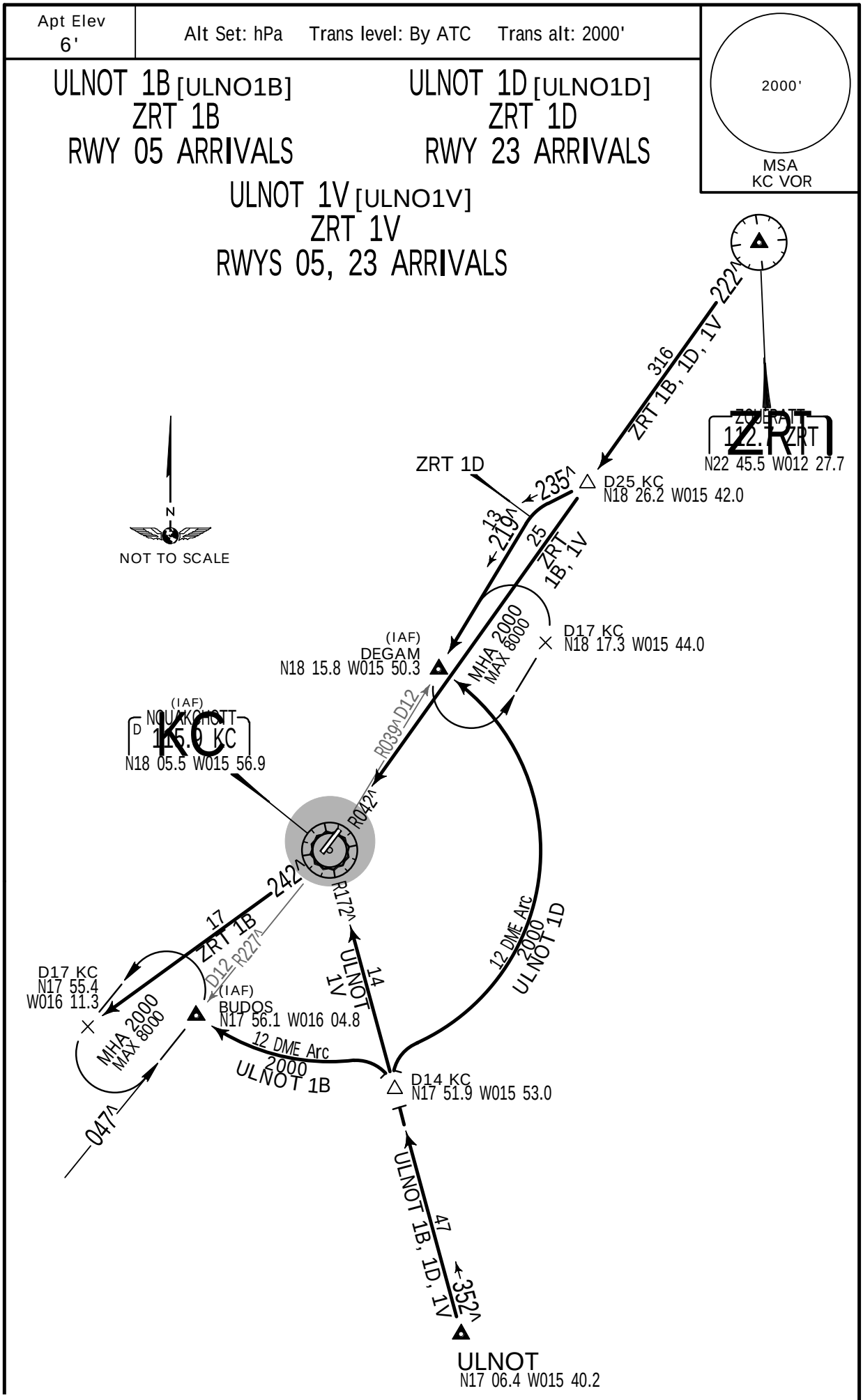
NOUAKCHOTT, MAURITANIA
.STAR.

Apt Elev 6'	Alt Set: hPa	Trans level: By ATC	Trans alt: 2000'

ULNOT 1B [ULNO1B]
ZRT 1B
RWY 05 ARRIVALS

ULNOT 1D [ULNO1D]
ZRT 1D
RWY 23 ARRIVALS

ULNOT 1V [ULNO1V]
ZRT 1V
RWYS 05, 23 ARRIVALS



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GQNN/NKC NOUAKCHOTT, MAURITANIA

NOUAKCHOTT

JEPPESEN

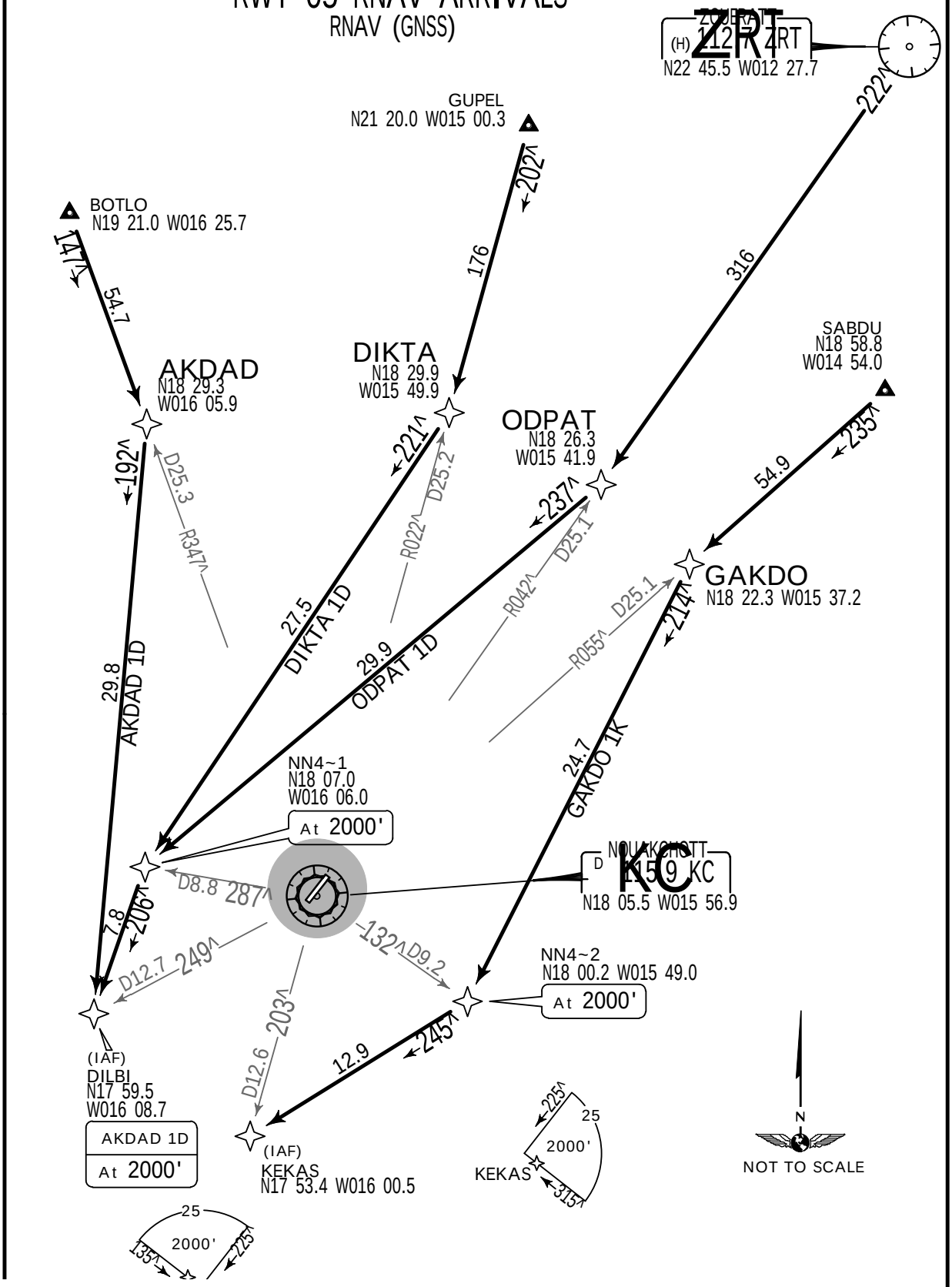
30 MAY 14 (10-2D)

.RNAV.STAR.

Apt Elev	Alt Set: hPa Trans level: By ATC Trans alt: 2000'
6'	

TAA
25 NM
IAF/IF

AKDAD 1D [AKDA1D]
DIKTA 1D [DIKT1D]
GAKDO 1K [GAKD1K]
ODPAT 1D [ODPA1D]
RWY 05 RNAV ARRIVALS
RNAV (GNSS)



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GQNN/NKC
NOUAKCHOTT

JEPPESEN

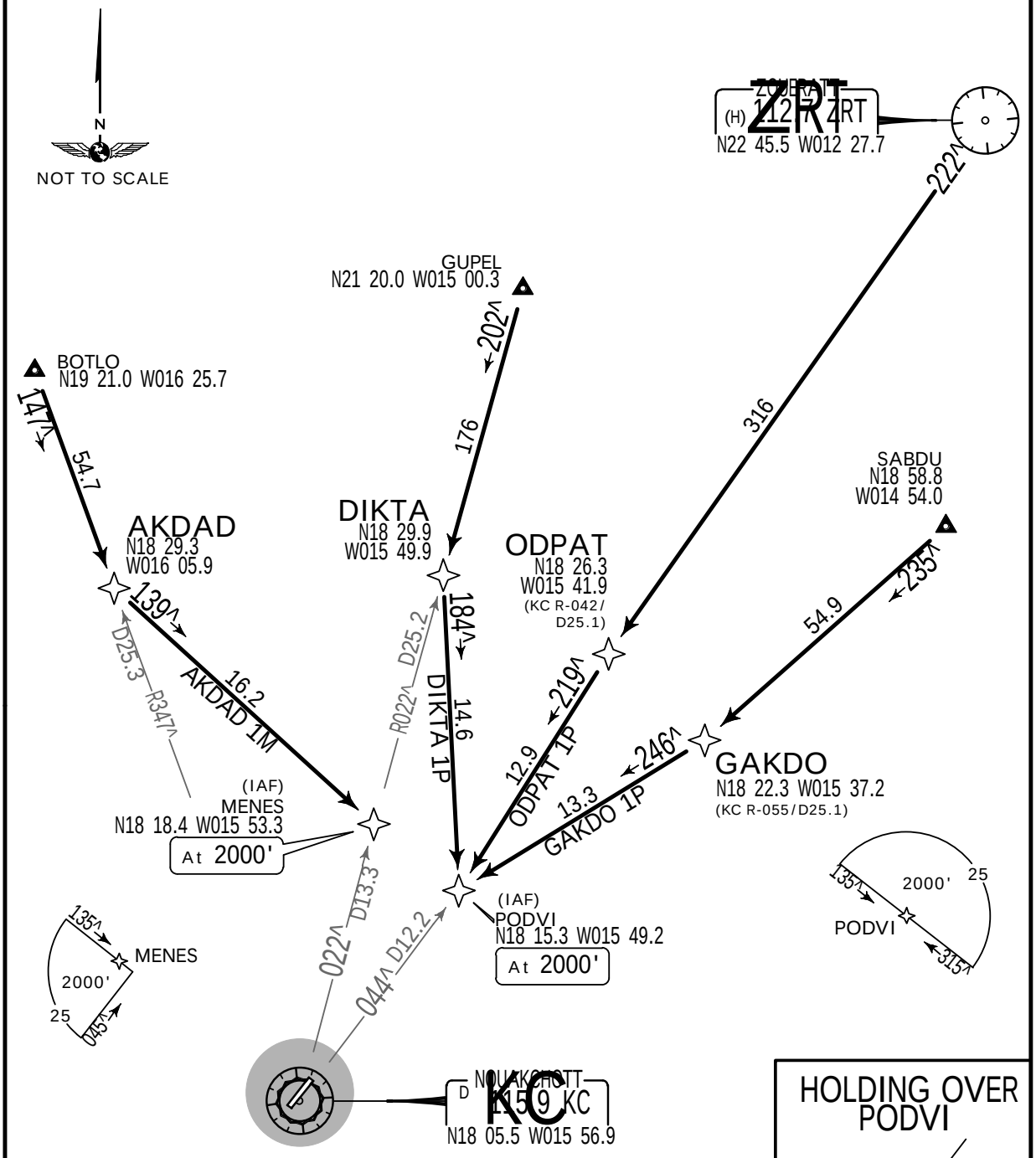
30 MAY 14 (10-2E)

NOUAKCHOTT, MAURITANIA
.RNAV.STAR.

Apt Elev	Alt Set: hPa Trans level: By ATC Trans alt: 2000'
6'	

TAA
25 NM
IAF/IF

AKDAD 1M [AKDA1M]
DIKTA 1P [DIKT1P]
GAKDO 1P [GAKD1P]
ODPAT 1P [ODPA1P]
RWY 23 RNAV ARRIVALS
RNAV (GNSS)



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GQNN/NKC
NOUAKCHOTT

JEPPESEN

30 MAY 14

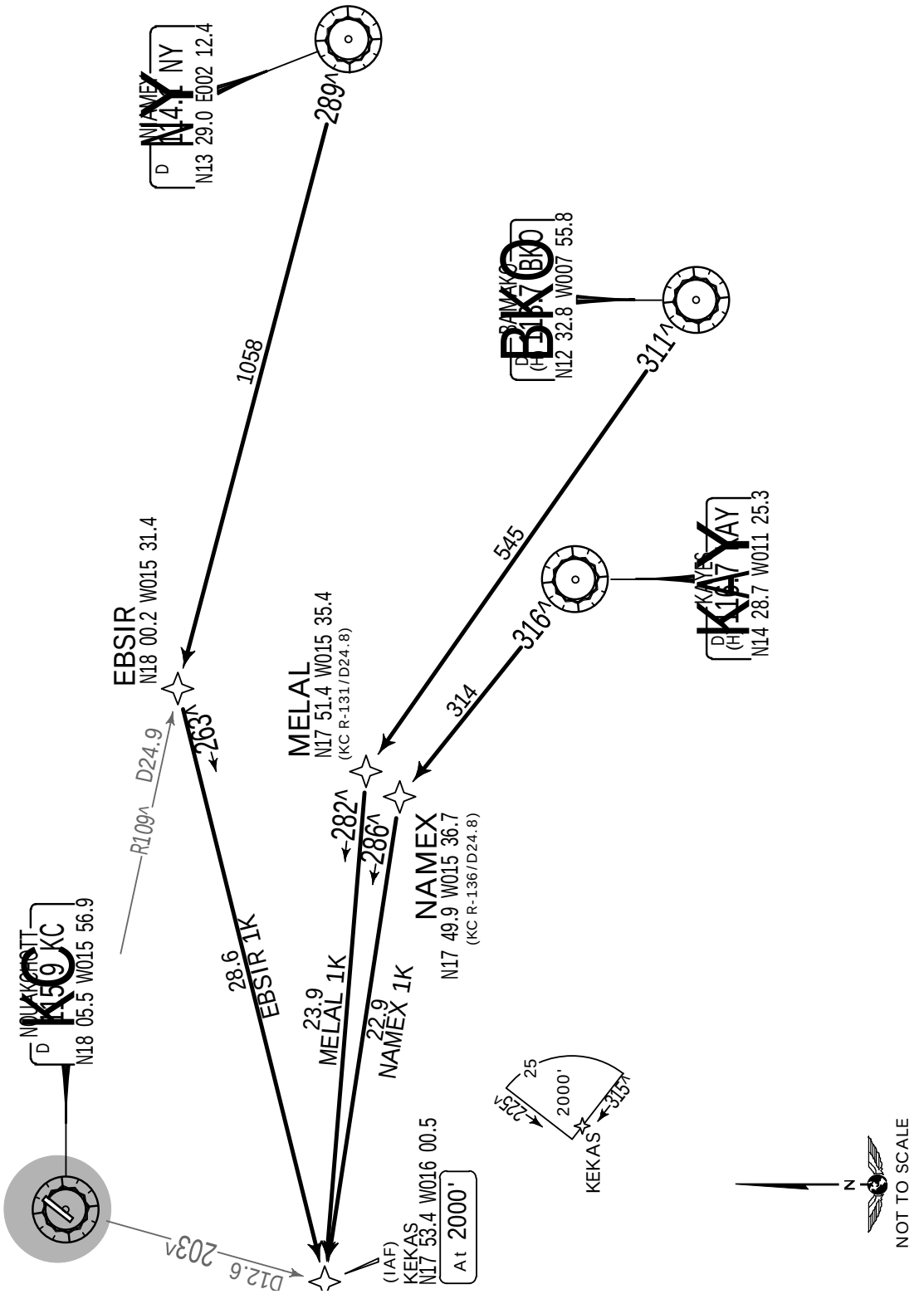
10-2F

NOUAKCHOTT, MAURITANIA
.RNAV.STAR.

Apt Elev	Alt Set: hPa
6'	Trans level: By ATC Trans alt: 2000'

EBSIR 1K [EBSI1K]
MELAL 1K [MELA1K]
NAMEX 1K [NAME1K]
RWY 05 RNAV ARRIVALS
RNAV (GNSS)

TAA
25 NM
IAF/IF



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GQNN/NKC
NOUAKCHOTT

JEPPESEN

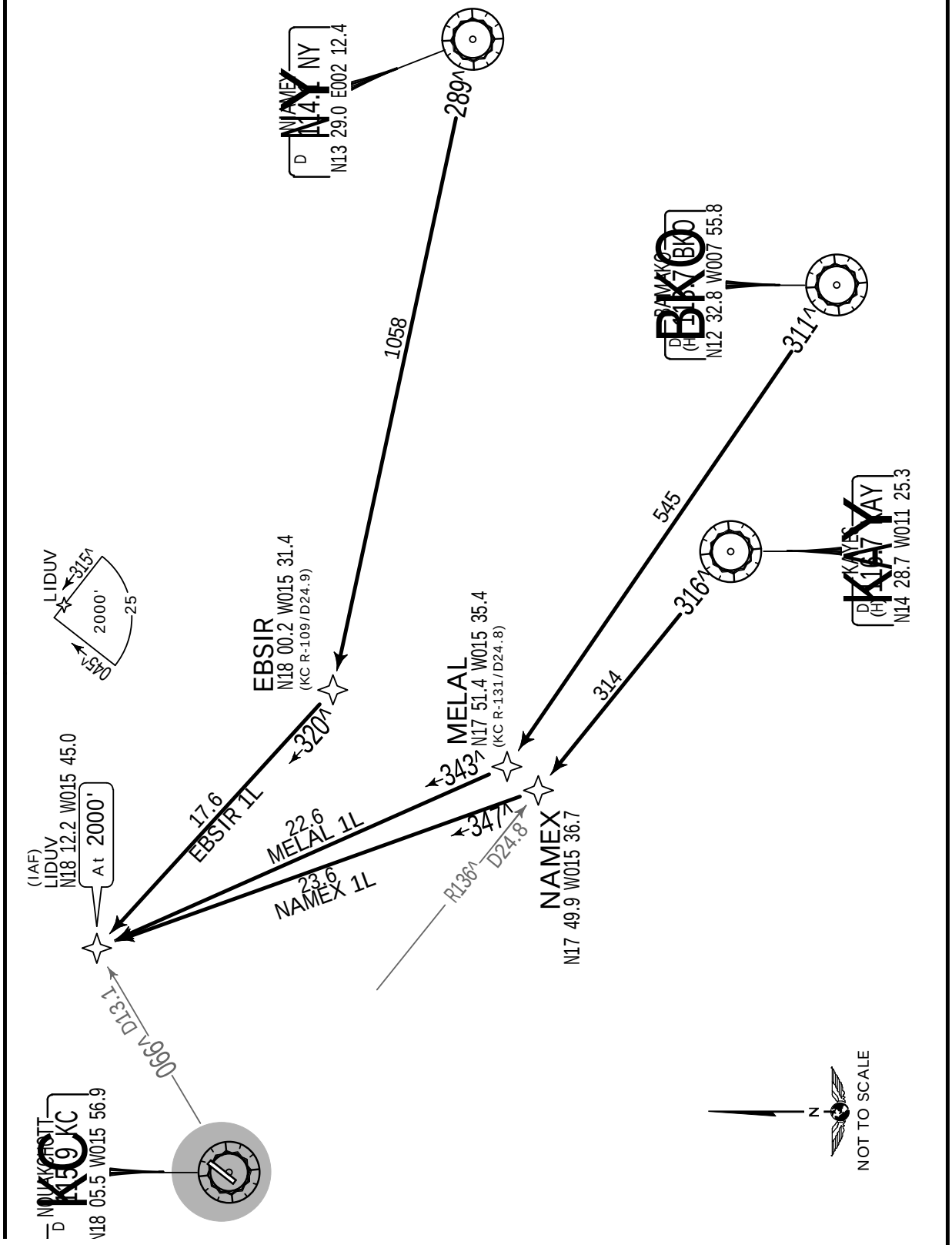
30 MAY 14 (10-2G)

NOUAKCHOTT, MAURITANIA
.RNAV.STAR.

Apt Elev	Alt Set: hPa
6'	Trans level: By ATC Trans alt: 2000'

EBSIR 1L [EBSI1L]
MELAL 1L [MELA1L]
NAMEX 1L [NAME1L]
RWY 23 RNAV ARRIVALS
RNAV (GNSS)

TAA
25 NM
IAF/IF



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GQNN/NKC
NOUAKCHOTT

JEPPESEN

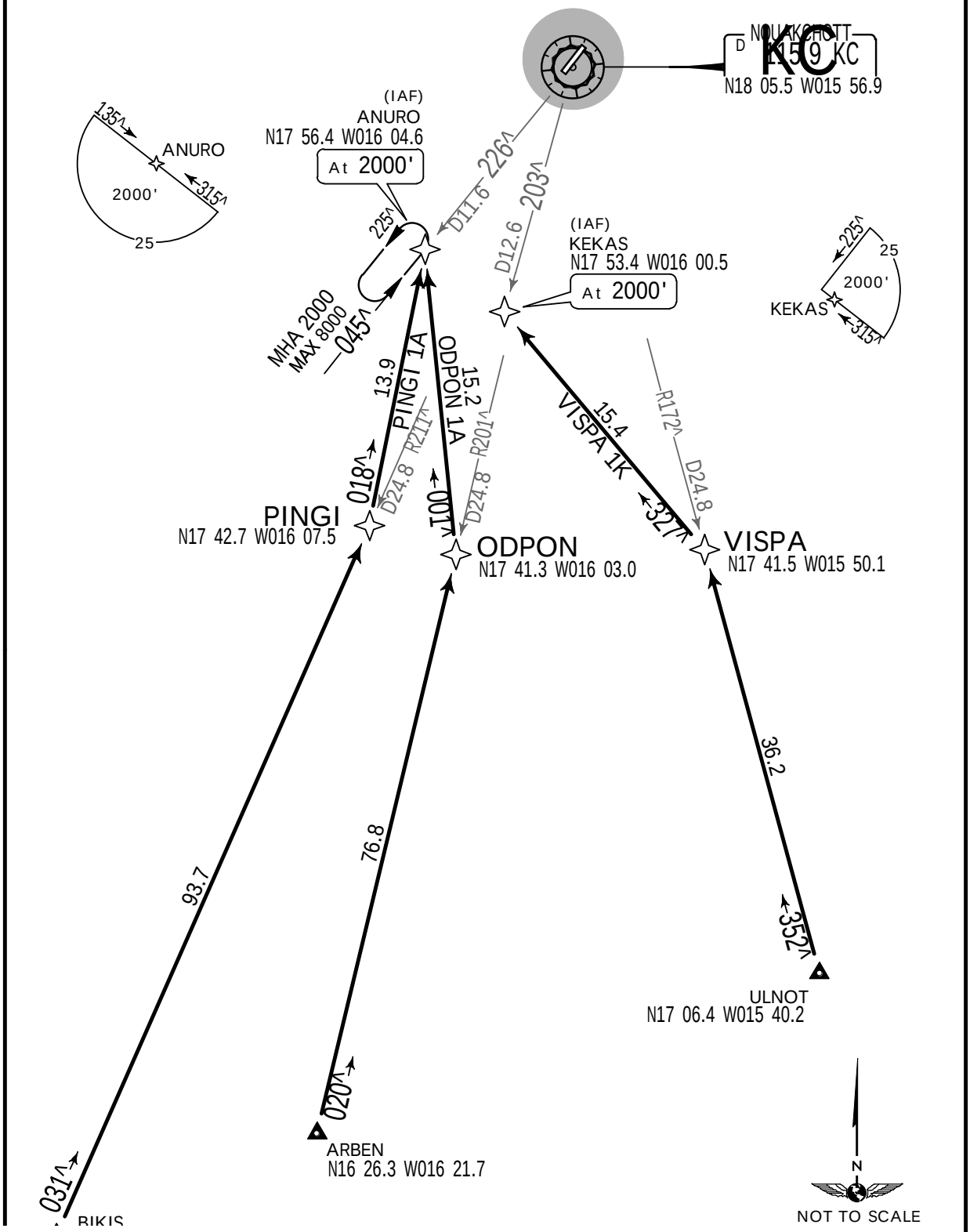
30 MAY 14 (10-2H)

NOUAKCHOTT, MAURITANIA
.RNAV.STAR.

Apt Elev	Alt Set: hPa Trans level: By ATC Trans alt: 2000'
6'	

TAA
25 NM
IAF/IF

ODPON 1A [ODPO1A]
PINGI 1A [PING1A]
VISPA 1K [VISP1K]
RWY 05 RNAV ARRIVALS
RNAV (GNSS)



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CHANGES: RNAV STARs completely revised.

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GQNN/NKC
NOUAKCHOTT

JEPPESEN

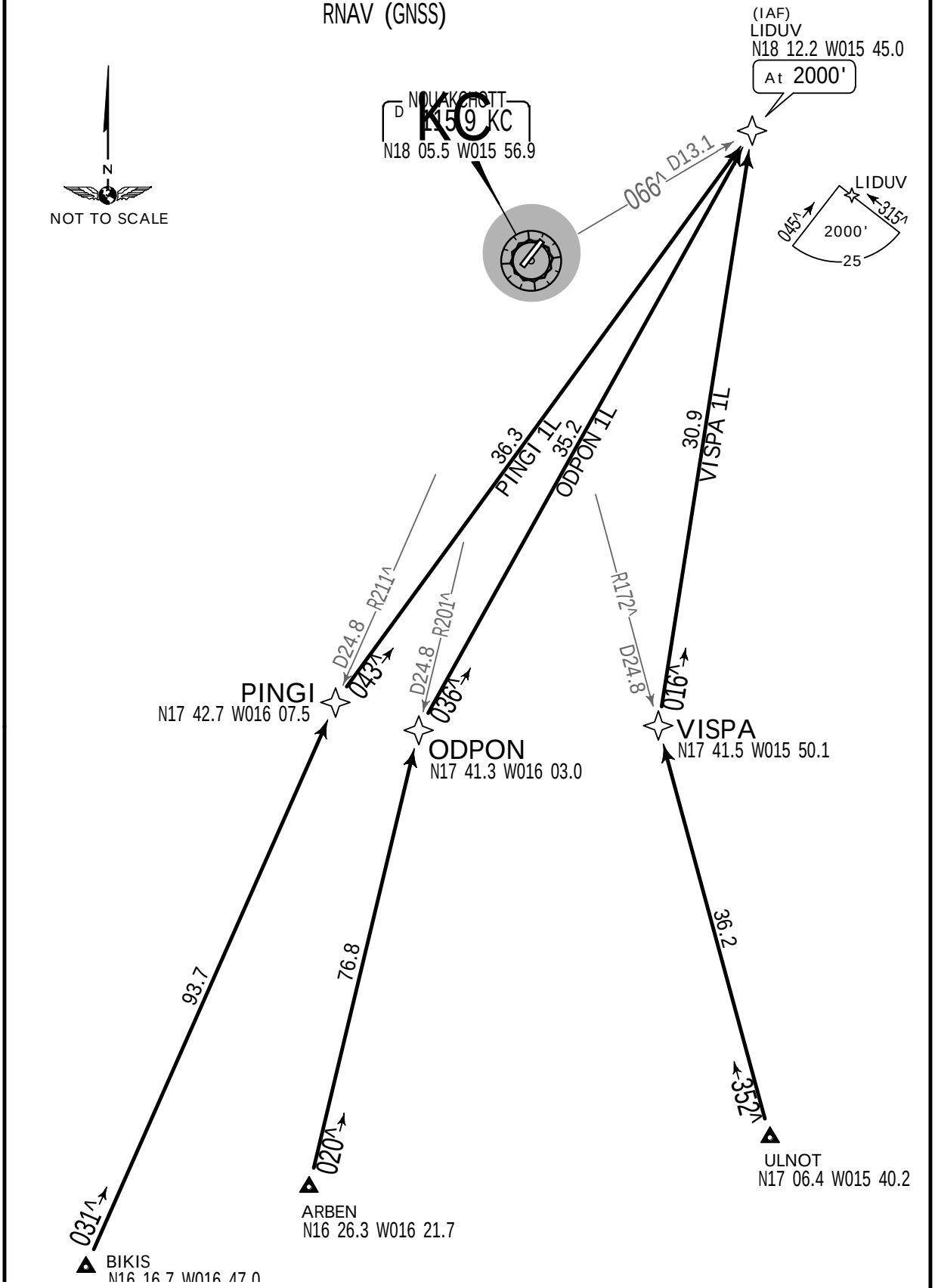
30 MAY 14 (10-2J)

NOUAKCHOTT, MAURITANIA
.RNAV.STAR.

Apt Elev	Alt Set: hPa Trans level: By ATC Trans alt: 2000'
6'	

TAA
25 NM
IAF/IF

ODPON 1L [ODPO1L]
PINGI 1L [PING1L]
VISPA 1L [VISP1L]
RWY 23 RNAV ARRIVALS
RNAV (GNSS)



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GQNN/NKC

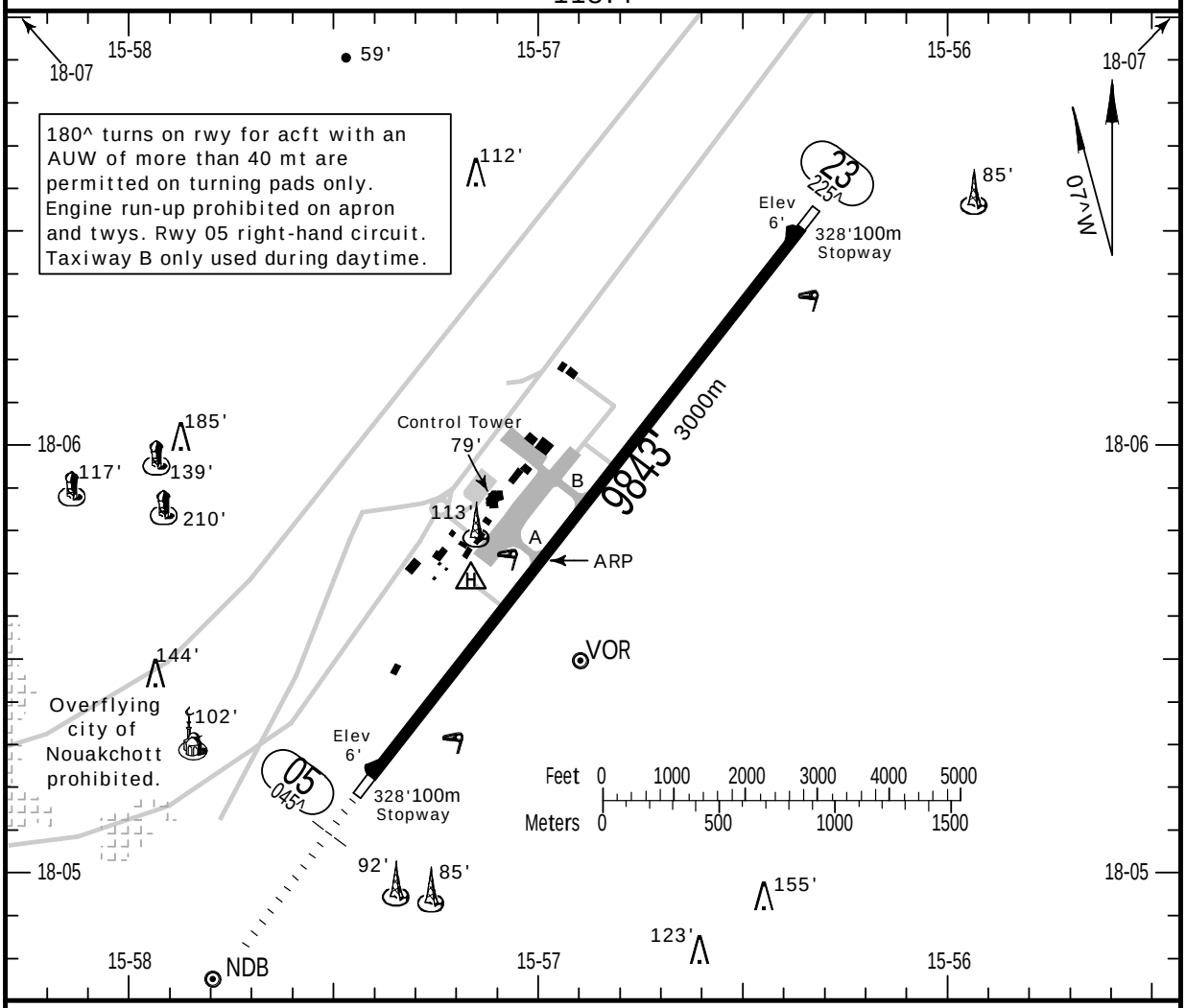
Apt Elev 6'
N18 05.7 W015 57.0

JEPPESEN 30 MAY 14 (10-9)

NOUAKCHOTT, MAURITANIA

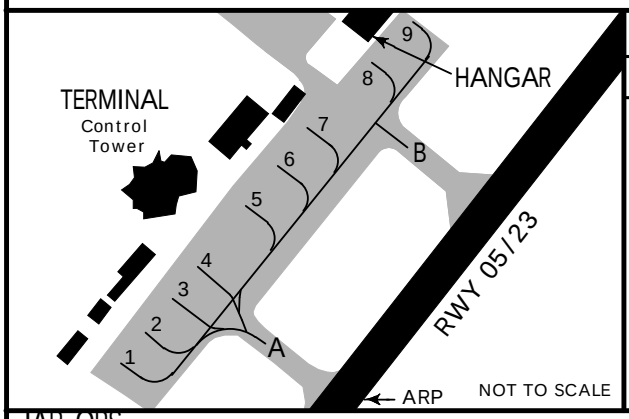
NOUAKCHOTT

NOUAKCHOTT Tower
118.4



ADDITIONAL RUNWAY INFORMATION

RWY					USABLE LENGTHS LANDING BEYOND Threshold	Glide Slope	TAKE-OFF	WIDTH
05	HIRL (60m)	HIALS	PAPI-L (angle 3.0^)	RVR		8907' 2715m		148' 45m
23	HIRL (60m)	REIL	PAPI-L (angle 3.0^)	RVR				



INS COORDINATES

STAND No.	COORDINATES		Elev.
1 thru 3	N18 05.8	W015 57.1	6'
4	N18 05.8	W015 57.1	5'
5	N18 05.9	W015 57.0	5'
6 thru 8	N18 05.9	W015 57.0	
9	N18 06.0	W015 56.9	

.JAR-OPS.

TAKE-OFF 1

All Rwys

	LVP must be in Force RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A			
B	400m		500m
C			
D			

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STRAIGHT-IN RWY		A	B	C	D
05	ILS Z or Y FULL	226'(220') R600m	236'(230') R600m	246'(240') R600m	256'(250') R600m
	Limited	R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1300m
	ILS X FULL	226'(200') R550m	236'(200') R550m	246'(210') R600m	256'(220') R600m
	Limited	R750m	R750m	R750m	R750m
	ALS out	R1200m	R1200m	R1200m	R1300m
	LOC Z or Y 1	390'(384') R1100m	390'(384') R1100m	390'(384') R1100m	390'(384') R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	LOC X 1	360'(354') R900m	360'(354') R1000m	360'(354') R1000m	360'(354') R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	RNAV LNAV/VNAV	340'(334') R900m	340'(334') R1000m	340'(334') R1000m	340'(334') R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	RNAV 1 LNAV	380'(374') R1000m	380'(374') R1000m	380'(374') R1000m	380'(374') R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	VOR 1	390'(384') R1100m	390'(384') R1100m	390'(384') R1200m	390'(384') R1400m
	ALS out	R1500m	R1500m	R1800m	R2000m
	NDB 1	440'(434') R1300m	440'(434') R1300m	440'(434') R1300m	440'(434') R1400m
	ALS out	R1500m	R1500m	R2000m	R2000m
	NDB	440'(434') R1500m	440'(434') R1500m	440'(434') R1700m	440'(434') R1700m
	ALS out	C2200m	C2200m	C2400m	C2400m
23	RNAV LNAV/VNAV	350'(344') R1500m	350'(344') R1500m	350'(344') R1800m	350'(344') R2000m
	RNAV 1 LNAV	360'(354') R1500m	360'(354') R1500m	360'(354') R1800m	360'(354') R2000m
	VOR Z 1	330'(324') R1500m	330'(324') R1500m	330'(324') R1800m	330'(324') R2000m
	VOR Y 1	410'(404') R1500m	410'(404') R1500m	410'(404') R1900m	410'(404') R2000m
	VOR Y	410'(404') C2100m	410'(404') C2100m	410'(404') C2300m	410'(404') C2300m
	NDB 1	440'(434') R1500m	440'(434') R1500m	440'(434') R2000m	440'(434') R2000m
	NDB	440'(434') C2200m	440'(434') C2200m	440'(434') C2400m	440'(434') C2400m

1 Continuous Descent Final Approach.

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GQNN/NKC

JEPPESEN

30 MAY 14 10-9S1

NOUAKCHOTT, MAURITANIA

Standard

NOUAKCHOTT

CIRCLE-TO-LAND 1 2	100 KT	135 KT	180 KT	205 KT
	450'(444') V1500m 3	510'(504') V1600m 3	610'(604') V2400m	710'(704') V3600m

1 NIGHT: NOT AUTHORIZED.
2 Not authorized Northwest of airport.
3 or higher minimums of preceding straight-in approach.

CIRCLE-TO-LAND 4	100 KT	135 KT	180 KT	205 KT
After ILS X or LOC X 05, RNAV 05, RNAV 23	510'(504') V1500m	510'(504') V1600m	880'(874') V2400m	880'(874') V3600m

4 NIGHT: NOT AUTHORIZED.

TAKE-OFF RWY 05, 23

	LVP must be in force RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A B C D	400m		500m

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GQNN/NKC NOUAKCHOTT

JEPPESEN 30 MAY 14 (11-1)

NOUAKCHOTT, MAURITANIA
ILS Z or LOC Z Rwy 05

BRIEFING STRIP ™

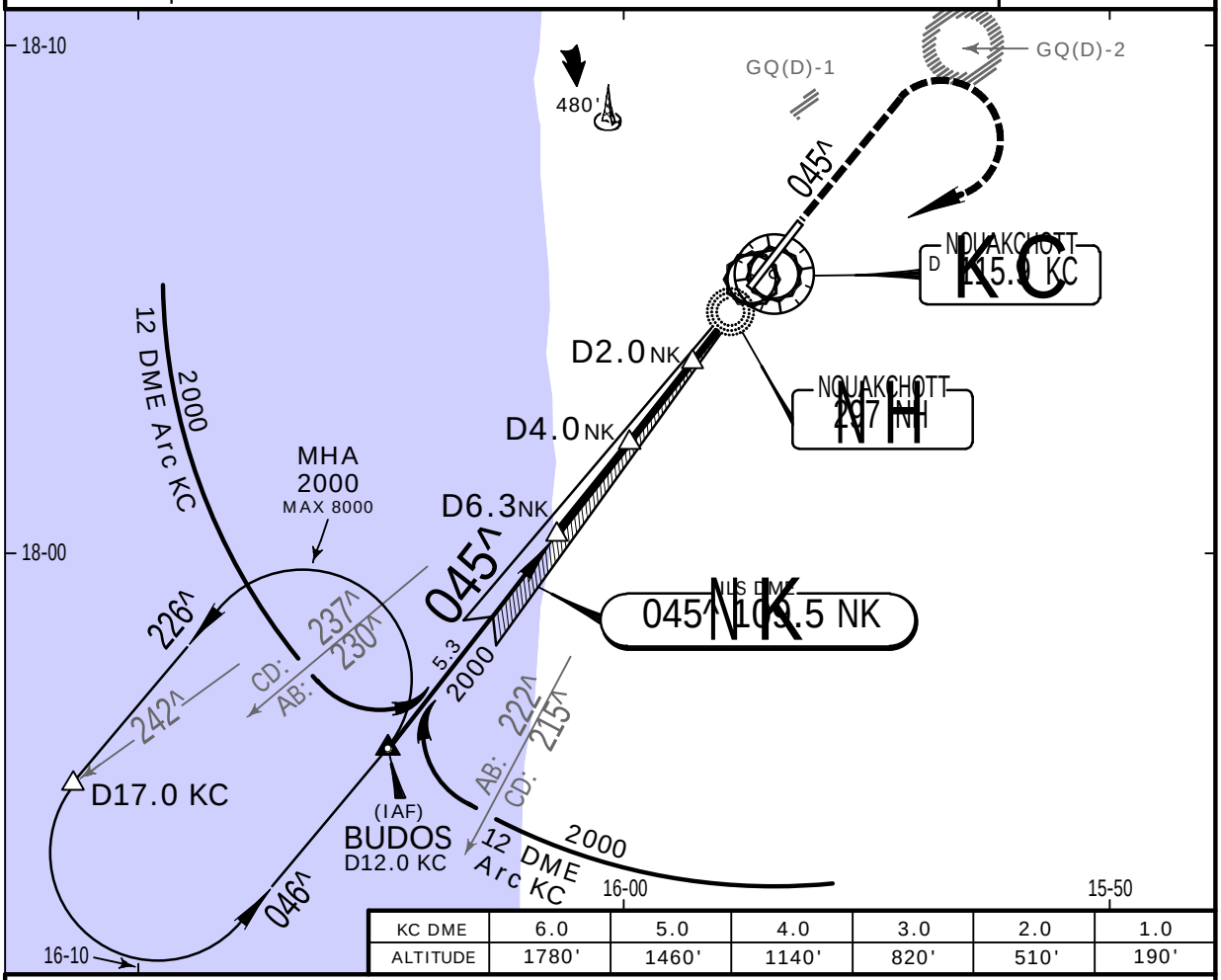
Approach Control through Tower
NOUAKCHOTT Tower
118.4

LOC NK	Final Apch Crs	GS D4.0 NK	ILS DA(H)	Apt Elev 6'
109.5	045^	1270' (1264')	Refer to Minimums	RWY 6'

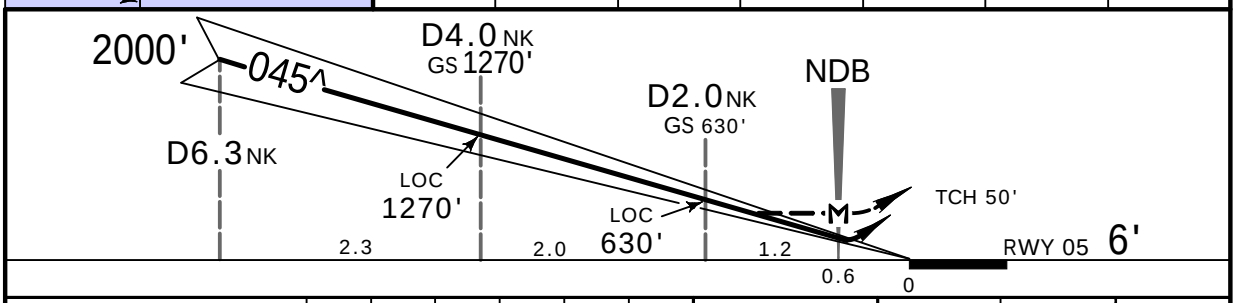
MISSED APCH: Climb on 045^ to 1500', then turn RIGHT climbing to 2000' and follow R-242 to rejoin BUDOS.

Alt Set: hPa Rwy Elev: 0 hPa Trans level: By ATC Trans alt: 2000'
VOR DME required.

2000'
MSA KC VOR



KC DME	6.0	5.0	4.0	3.0	2.0	1.0
ALTITUDE	1780'	1460'	1140'	820'	510'	190'



Gnd speed-Kts	70	90	100	120	140	160
ILS GS or LOC Descent Angle 3.00^	372	478	531	637	743	849
MAP at NDB						

HIALS
PAPI
1500' on 045^

JAR-OPS.

STRAIGHT-IN LANDING RWY 05

	ILS FULL	ILS ALS out	LOC (GS out)	NDB out	ALS out
DA(H)	A: 226' (220') C: 246' (240') B: 236' (230') D: 256' (250')		MDA(H) 390' (384')		
A	RVR 600m	RVR 1000m	RVR 900m	NOT AUTH	RVR 1500m
B			RVR 1000m		
C					RVR 1800m

CIRCLE-TO-LAND

Max Kts	DAY MDA(H)	DAY VIS	NIGHT
100	450' (444')	1500m	NOT AUTH
135	510' (504')	1600m	
180	610' (604')	2400m	

DAY: Not authorized Northwest of airport

NS OPS

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GQNN/NKC NOUAKCHOTT

JEPPESEN 30 MAY 14 (11-2)

NOUAKCHOTT, MAURITANIA
ILS Y or LOC Y Rwy 05

BRIEFING STRIP ™

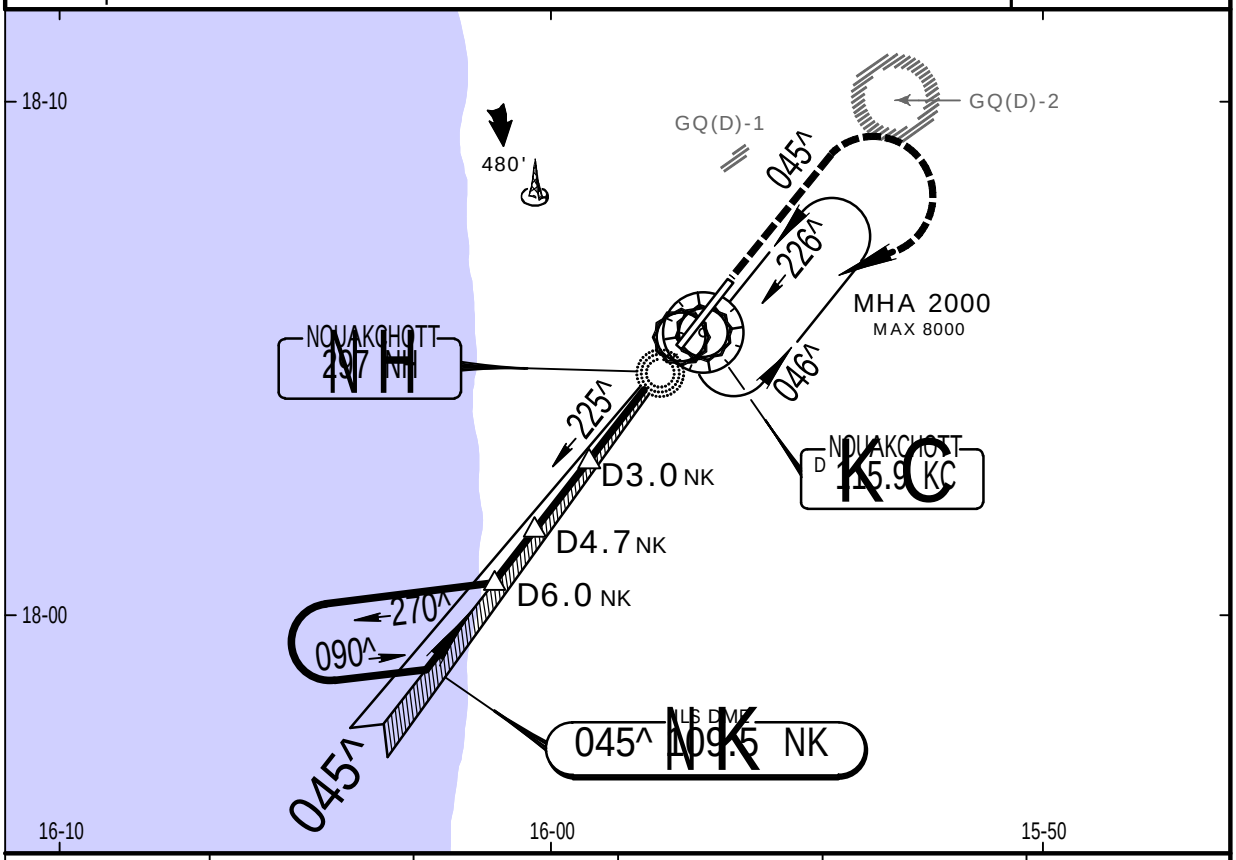
Approach Control through Tower
NOUAKCHOTT Tower
118.4

LOC	Final Apch Crs	GS	ILS DA(H)	Apt Elev 6'
NK 109.5	045^	D3.0 NK 950' (944')	Refer to Minimums	RWY 6'

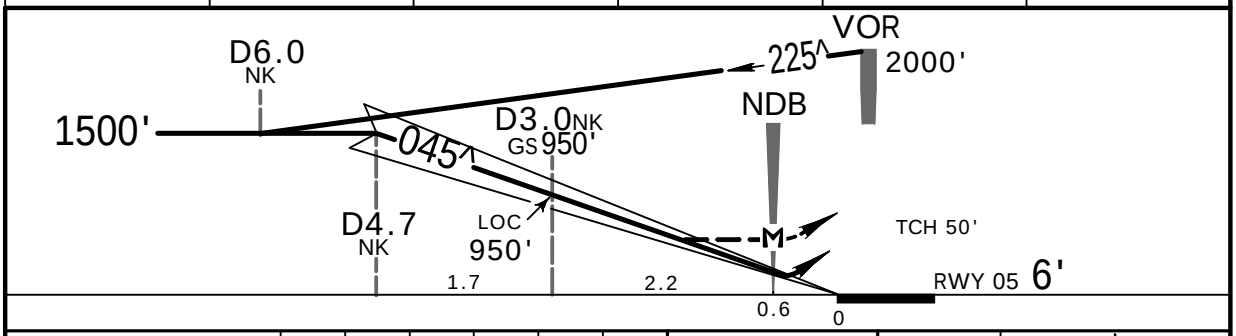
MISSED APCH: Climb on 045^ to 1500', then climbing turn RIGHT to rejoin VOR at 2000'.

Alt Set: hPa | Rwy Elev: 0 hPa | Trans level: By ATC | Trans alt: 2000'
VOR required.

2000'
MSA KC VOR



KC DME	5.0	4.0	3.0	2.0	1.0
ALTITUDE	1460'	1140'	820'	510'	190'



Gnd speed-Kts	70	90	100	120	140	160
ILS GS or LOC Descent Angle 3.00^	372	478	531	637	743	849
MAP at NDB						

HIALS
PAPI
1500' on 045^

.JAR-OPS.

STRAIGHT-IN LANDING RWY 05

ILS DA(H) A: 226' (220') B: 236' (230') C: 246' (240') D: 256' (250')

LOC (GS out) MDA(H) 390' (384')

	ILS FULL	ILS ALS out	LOC (GS out)	LOC NDB out	LOC ALS out
A	RVR 600m	RVR 1000m	RVR 900m	NOT AUTH	RVR 1500m
B			RVR 1000m		
C					RVR 1800m
D			RVR 1400m		RVR 2000m

CIRCLE-TO-LAND
DAY
Not authorized
Northwest of airport

Max Kts	MDA(H)	VIS	NIGHT
100	450' (444')	1500m	NOT AUTH
135	510' (504')	1600m	
180	610' (604')	2400m	
205	710' (704')	3600m	

NS OPS

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GQNN/NKC NOUAKCHOTT

JEPPESEN 30 MAY 14 (11-3)

NOUAKCHOTT, MAURITANIA
ILS X or LOC X Rwy 05

Approach Control through Tower
NOUAKCHOTT Tower
118.4

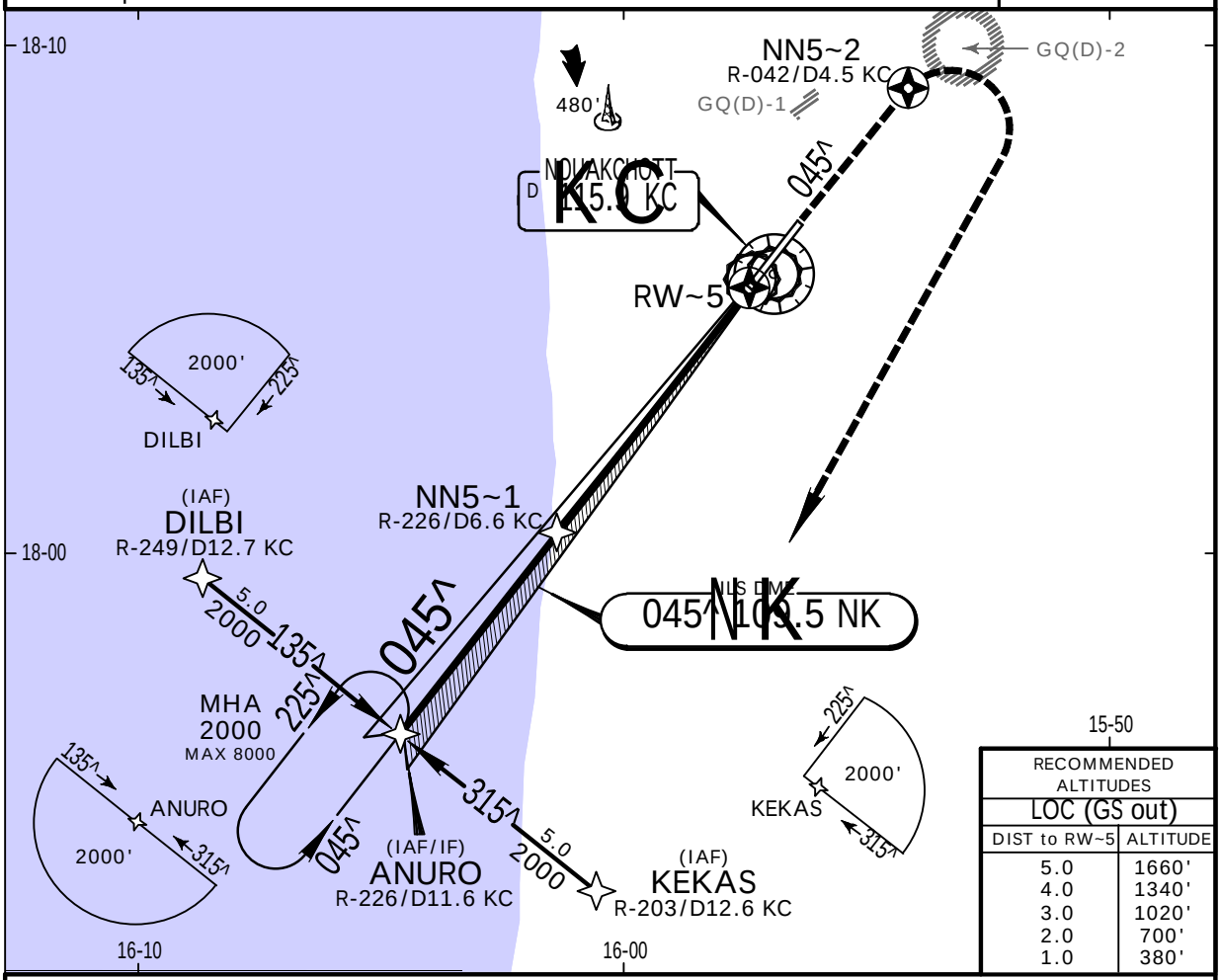
BRIEFING STRIP ™

LOC	Final	GS	ILS	Apt Elev 6'
NK	Apch Crs	NN5~1	DA(H)	RWY 6'
109.5	045^	2000' (1994')	Refer to Minimums	

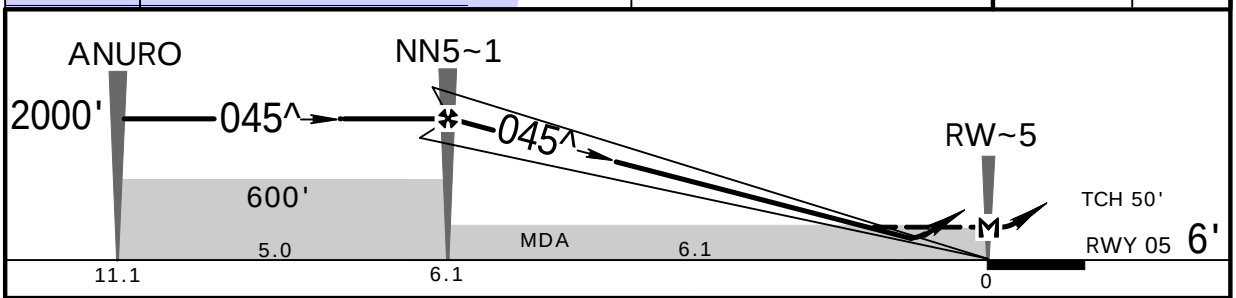
MISSED APCH: Climb STRAIGHT AHEAD. At NN5~2 turn RIGHT climbing to 2000' direct to KEKAS.

TAA 25 NM IF/IAF

Alt Set: hPa Rwy Elev: 0 hPa Trans level: By ATC Trans alt: 2000'
GNSS required.



RECOMMENDED ALTITUDES	
LOC (GS out)	
DIST to RW~5	ALTITUDE
5.0	1660'
4.0	1340'
3.0	1020'
2.0	700'
1.0	380'



Gnd speed-Kts	70	90	100	120	140	160
ILS GS or LOC Descent Angle 3.00^	372	478	531	637	743	849
MAP at RW~5						

HIALS PAPI NN5~2

.JAR-OPS. STRAIGHT-IN LANDING RWY 05

ILS DA(H) AB: 206' (200') C: 216' (210') D: 226' (220')

LOC (GS out) MDA(H) 360' (354')

	ILS FULL	ILS ALS out	LOC (GS out)	LOC (GS out) ALS out
A	RVR 550m	RVR 1000m	RVR 900m	RVR 1500m
B			RVR 1000m	
C	RVR 600m			RVR 1800m

CIRCLE-TO-LAND

Max Kts	DAY MDA(H)	DAY VIS	NIGHT
100	510' (504')	1500m	NOT AUTH
135	510' (504')	1600m	
180	880' (874')	2400m	

NS OPS

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GQNN/NKC NOUAKCHOTT

JEPPESEN 30 MAY 14 (12-1)

NOUAKCHOTT, MAURITANIA RNAV (GNSS) Rwy 05

BRIEFING STRIP ™

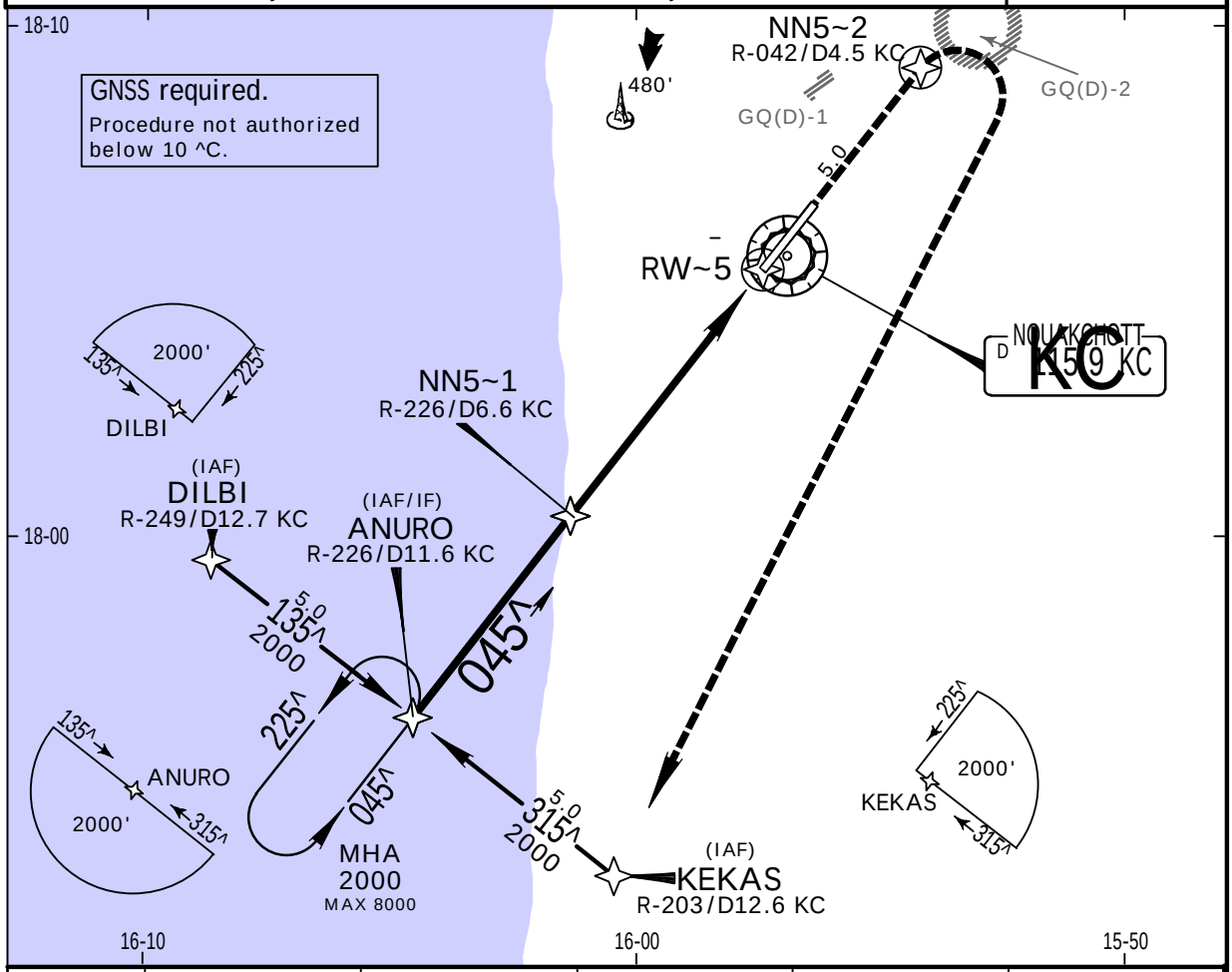
Approach Control through Tower
NOUAKCHOTT Tower
118.4

RNAV	Final Apch Crs	Minimum Alt ANURO	LNAV/VNAV DA(H)	Apt Elev 6'
	045^	2000' (1994')	340' (334')	RWY 6'

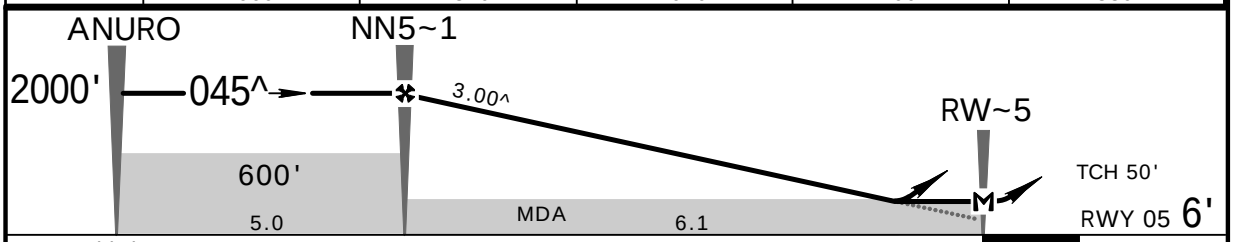
TAA 25 NM IAF

MISSED APCH: Climb STRAIGHT AHEAD. At NN5~2 turn RIGHT climbing to 2000' direct to KEKAS.

Alt Set: hPa Rwy Elev: 0 hPa Trans level: By ATC Trans alt: 2000'



DIST to RW~5	5.0	4.0	3.0	2.0	1.0
ALTITUDE	1660'	1340'	1020'	700'	380'



Gnd speed-Kts	70	90	100	120	140	160
Descent angle 3.00^	372	478	531	637	743	849
MAP at RW~5						

HIALS
PAPI
NN5~2

JAR-OPS.

STRAIGHT-IN LANDING RWY 05

	LNAV/VNAV DA(H) 340' (334') FULL	LNAV/VNAV DA(H) 340' (334') ALS out	LNAV MDA(H) 380' (374')	LNAV MDA(H) 380' (374') ALS out
A	RVR 900m	RVR 1500m	RVR 900m	RVR 1500m
B	RVR 1000m		RVR 1000m	
C		RVR 1800m		RVR 1800m

CIRCLE-TO-LAND

Max Kts	DAY MDA(H)	DAY VIS	NIGHT
100	510' (504')	1500m	NOT AUTH
135	510' (504')	1600m	
180	880' (874')	2400m	

NS OPS

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GQNN/NKC NOUAKCHOTT

JEPPESEN 30 MAY 14 (12-2)

NOUAKCHOTT, MAURITANIA RNAV (GNSS) Rwy 23

BRIEFING STRIP ™

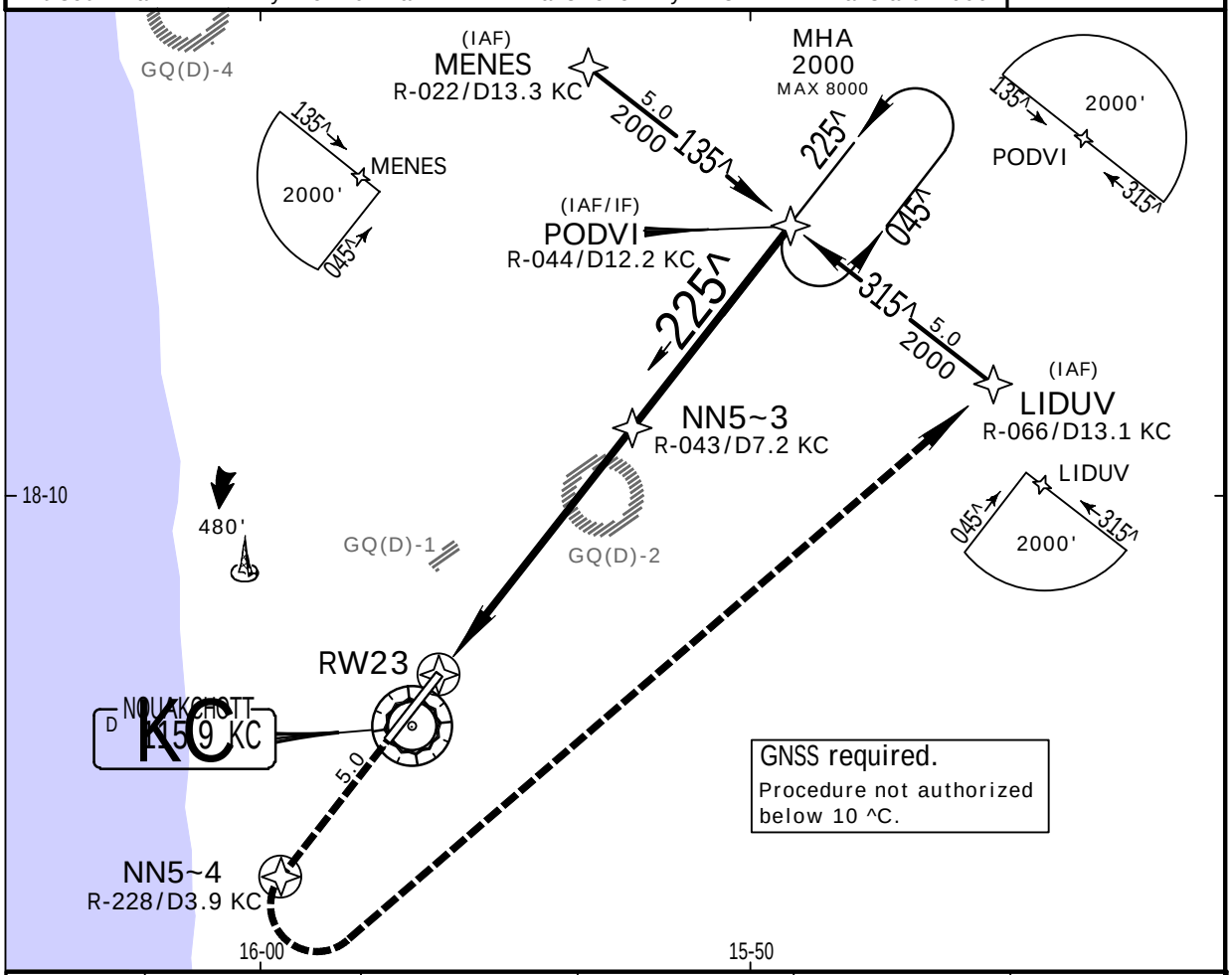
Approach Control through Tower
NOUAKCHOTT Tower
118.4

RNAV	Final Apch Crs	Minimum Alt NN5~3	LNAV/VNAV DA(H)	Apt Elev 6'
	225^	2000' (1994')	350' (344')	RWY 6'

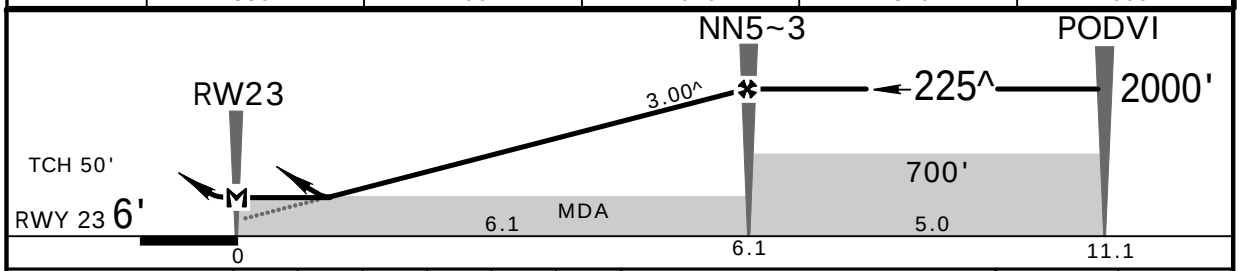
TAA 25 NM IAF

MISSED APCH: Climb STRAIGHT AHEAD. At NN5~4 turn LEFT climbing to 2000' direct to LIDUV.

Alt Set: hPa Rwy Elev: 0 hPa Trans level: By ATC Trans alt: 2000'



DIST to RW23	1.0	2.0	3.0	4.0	5.0
ALTITUDE	380'	700'	1020	1340'	1660'



Gnd speed-Kts	70	90	100	120	140	160
Descent angle 3.00^	372	478	531	637	743	849
MAP at RW23						

REIL
PAPI-L

NN5~4

.JAR-OPS.

STRAIGHT-IN LANDING RWY 23

	LNAV/VNAV DA(H) 350' (344')	LNAV MDA(H) 360' (354')
A	RVR 1500m	RVR 1500m
B		
C	RVR 1800m	RVR 1800m

CIRCLE-TO-LAND

Max Kts	DAY MDA(H)	DAY VIS	NIGHT
100	510' (504')	1500m	NOT AUTH
135	510' (504')	1600m	
180	880' (874')	2400m	

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GQNN/NKC NOUAKCHOTT

JEPPESEN 30 MAY 14 (13-1)

NOUAKCHOTT, MAURITANIA VOR Rwy 05

BRIEFING STRIP ™

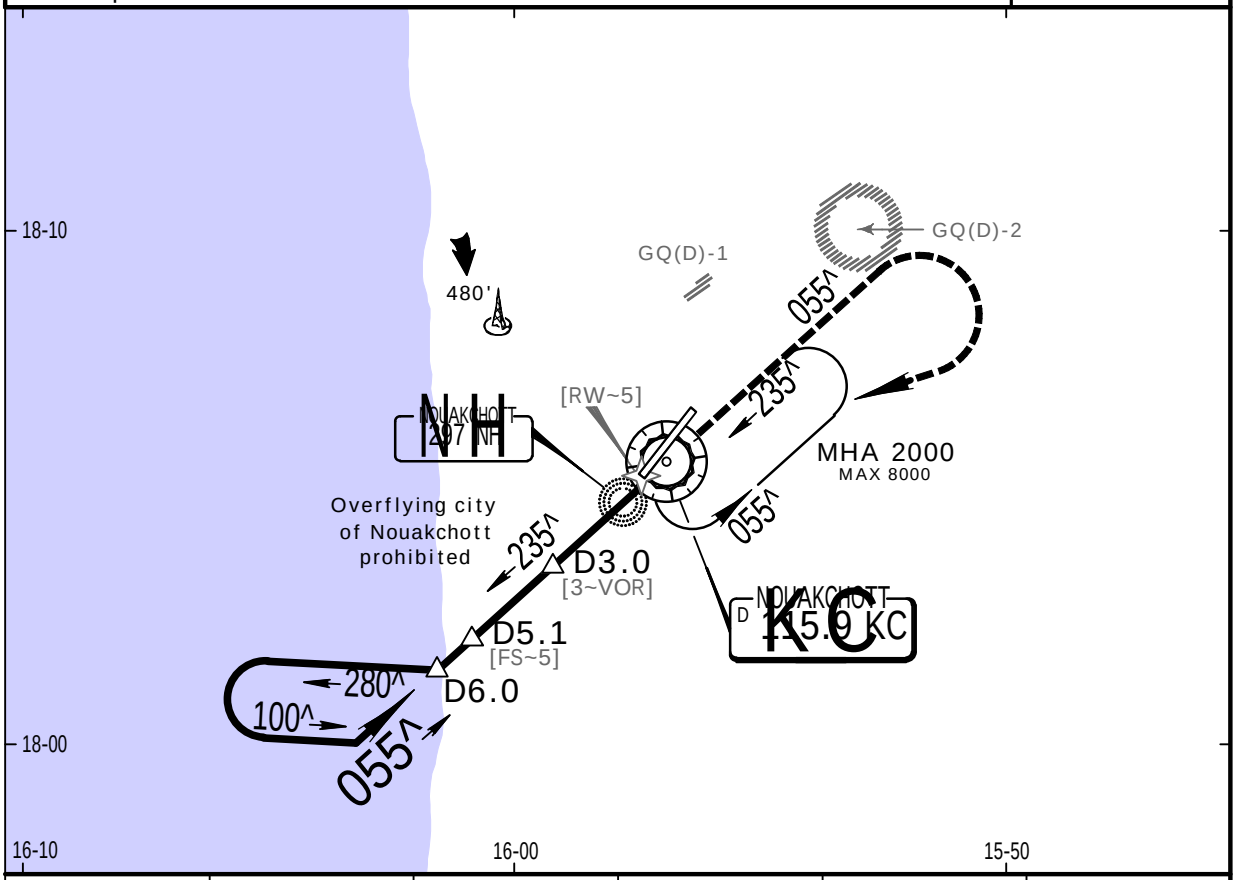
Approach Control through Tower
NOUAKCHOTT Tower
118.4

VOR KC	Final Apch Crs	Minimum Alt D5.1	MDA(H)	Apt Elev 6'
115.9	055^	1500' (1494')	390' (384')	RWY 6'

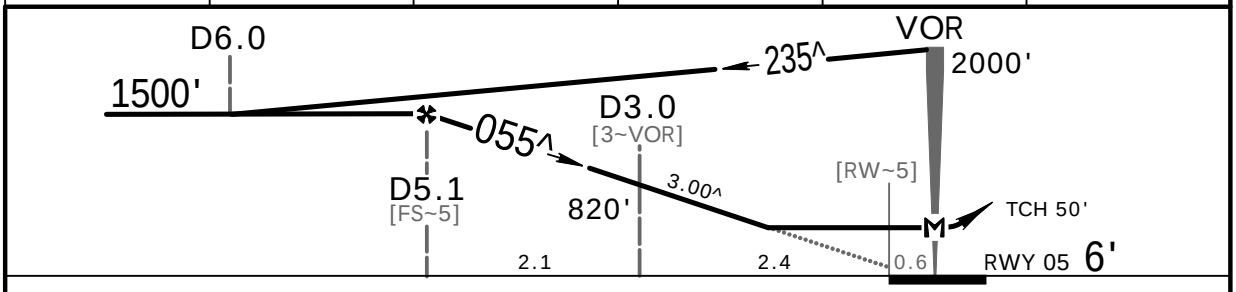
MISSED APCH: Climb on R-055 to 1500', then climbing turn RIGHT to rejoin VOR at 2000'.

Alt Set: hPa Rwy Elev: 0 hPa Trans level: By ATC Trans alt: 2000'
DME required.

2000'
MSA KC VOR



KC DME	5.0	4.0	3.0	2.0	1.0
ALTITUDE	1460'	1140'	820'	510'	190'



Gnd speed-Kts	70	90	100	120	140	160
Descent angle 3.00^	372	478	531	637	743	849
MAP at VOR						

HIALS
PAPI

1500' on KC 115.9 R-055

.JAR-OPS.

STRAIGHT-IN LANDING RWY 05

MDA(H) 390' (384')

		ALS out
A	RVR 900m	RVR 1500m
B	RVR 1000m	
C		RVR 1800m
D	RVR 1400m	RVR 2000m

CIRCLE-TO-LAND

	DAY Not authorized Northwest of airport		NIGHT
Max Kts	MDA(H)	VIS	
100	450' (444')	1500m	NOT AUTH
135	510' (504')	1600m	
180	610' (604')	2400m	
205	710' (704')	3600m	

NS OPS

CHANGES: PAPI established.

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GQNN/NKC NOUAKCHOTT

JEPPESEN 15 JUN 12 (13-2) .Eff.28.Jun.

NOUAKCHOTT, MAURITANIA VOR Z Rwy 23

BRIEFING STRIP ™

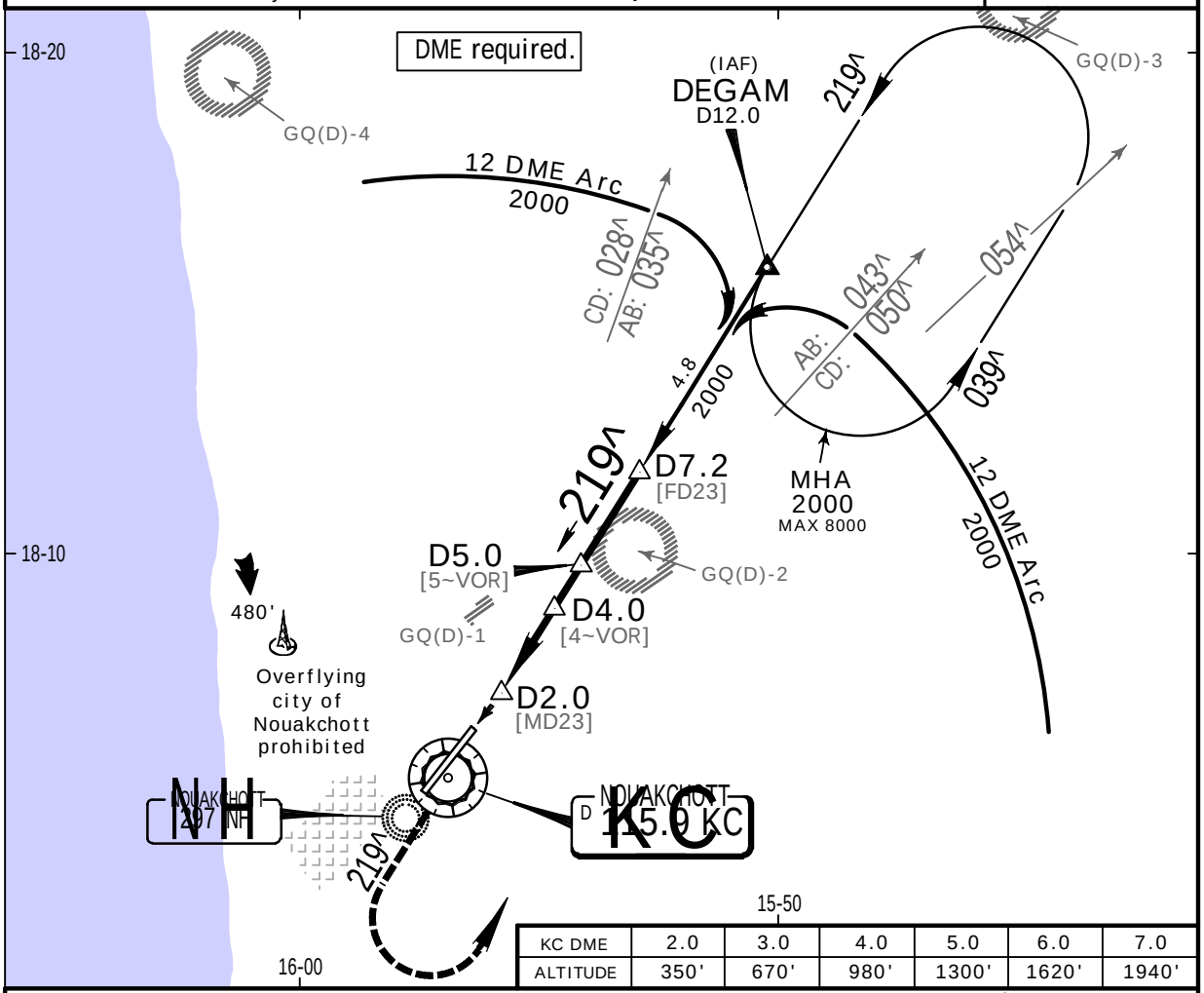
Approach Control through Tower
NOUAKCHOTT Tower
118.4

VOR	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 6'
KC 115.9	219^	D7.2 2000' (1994')	330' (324')	RWY 6'

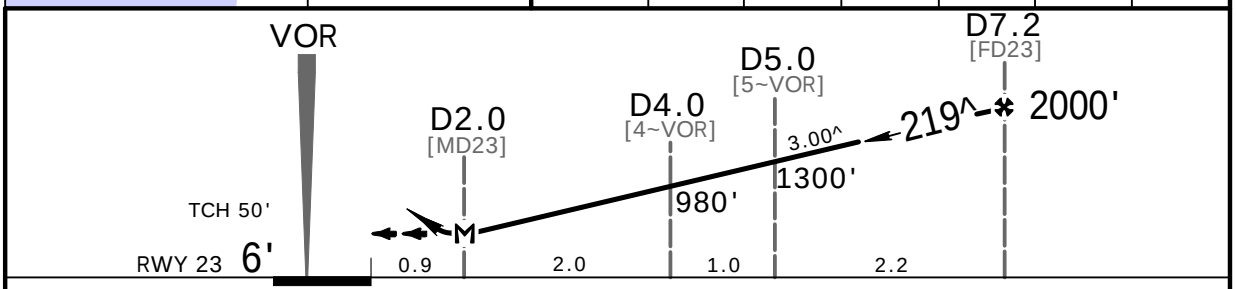
MISSED APCH: Climb on R-219 to 1500', then turn LEFT climbing to 2000' and follow R-054 to rejoin DEGAM.

Alt Set: hPa | Rwy Elev: 0 hPa | Trans level: By ATC | Trans alt: 2000'

MSA KC VOR: 2000'



KC DME	2.0	3.0	4.0	5.0	6.0	7.0
ALTITUDE	350'	670'	980'	1300'	1620'	1940'



Gnd speed-Kts	70	90	100	120	140	160
Descent angle 3.00^	372	478	531	637	743	849
MAP at D2.0						

REIL
PAPI-L

1500' ↑ on KC 115.9 R-219

.JAR-OPS. STRAIGHT-IN LANDING RWY 23

MDA(H) 330' (324')

A	RVR 1500m	
B		
C	RVR 1800m	

CIRCLE-TO-LAND

Max Kts	DAY MDA(H)	DAY VIS	NIGHT
100	450' (444')	1500m	NOT AUTH
135	510' (504')	1600m	
180	610' (604')	2400m	

Not authorized Northwest of airport

NS OPS

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GQNN/NKC NOUAKCHOTT

JEPPESEN 15 JUN 12 (13-3) .Eff.28.Jun.

NOUAKCHOTT, MAURITANIA VOR Y Rwy 23

BRIEFING STRIP ™

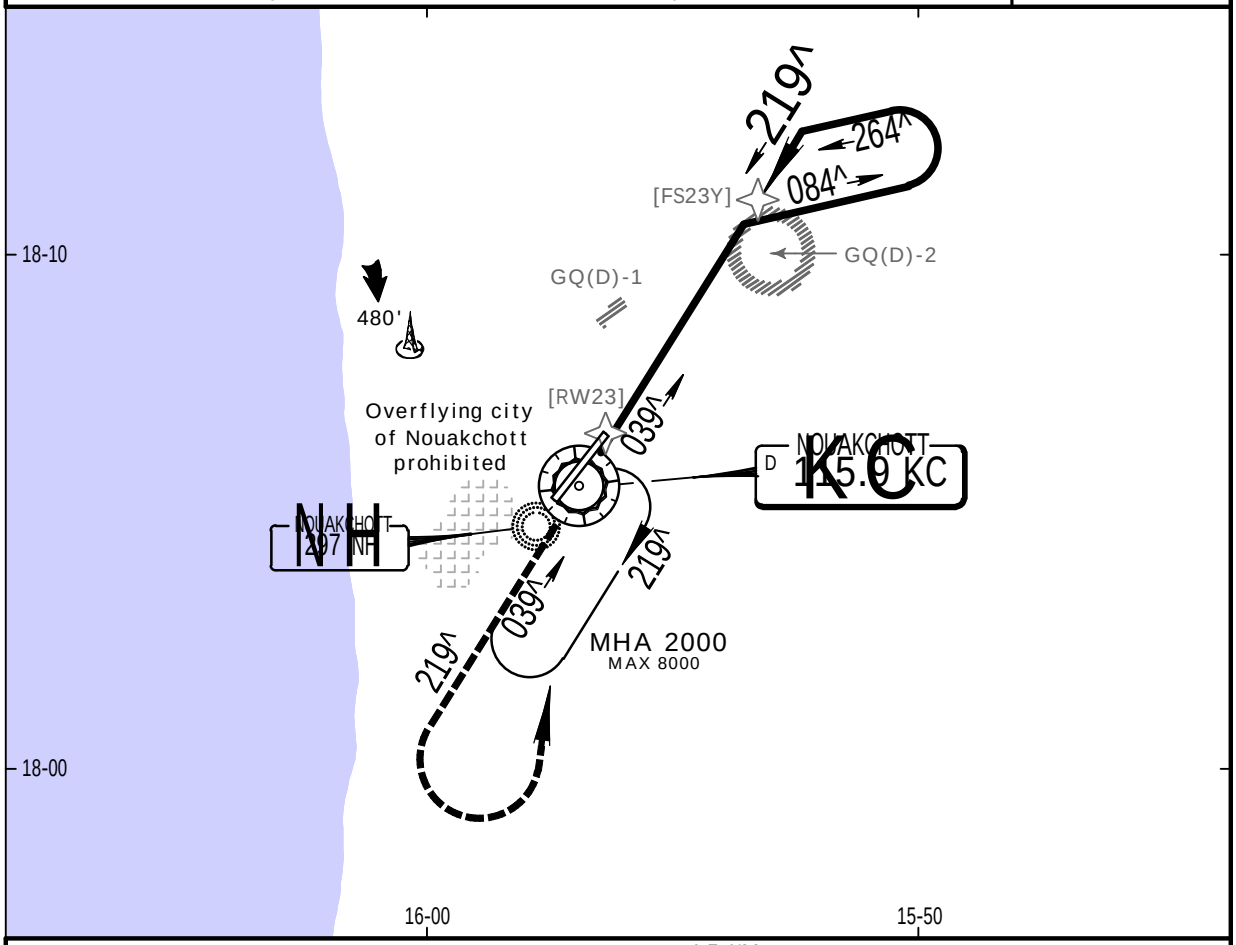
Approach Control through Tower
NOUAKCHOTT Tower
118.4

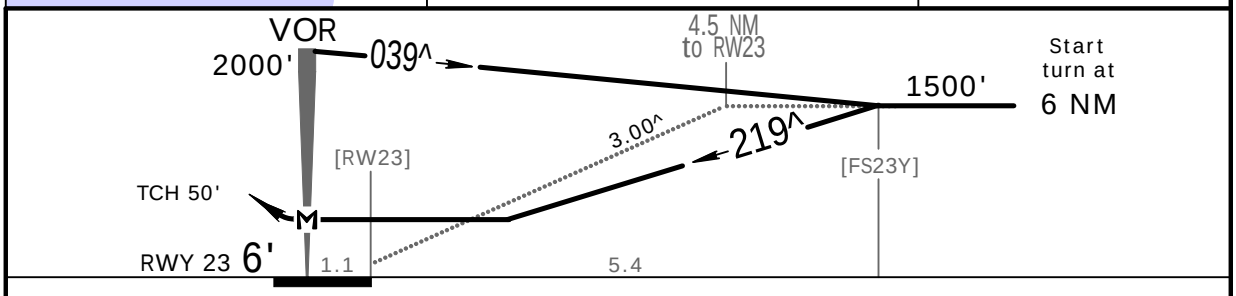
VOR KC 115.9	Final Apch Crs 219^	Minimum Alt No FAF	MDA(H) 410' (404')	Apt Elev 6' RWY 6'

MISSED APCH: Climb on R-219 to 1500', then climbing turn LEFT to rejoin VOR at 2000'.

Alt Set: hPa | Rwy Elev: 0 hPa | Trans level: By ATC | Trans alt: 2000'

2000'
MSA KC VOR





Gnd speed-Kts	70	90	100	120	140	160
Descent angle 3.00^	372	478	531	637	743	849
MAP at VOR						

REIL
PAPI-L

1500' ↑ on KC 115.9 R-219

.JAR-OPS. STRAIGHT-IN LANDING RWY 23

MDA(H) 410' (404')

		Max Kts	MDA(H)	VIS
A	RVR 1500m	100	450' (444')	1500m
B		135	510' (504')	1600m
C	RVR 1800m	180	610' (604')	2400m
D	RVR 2000m	205	710' (704')	3600m

CIRCLE-TO-LAND
DAY
Not authorized
Northwest of airport

NIGHT: NOT AUTH

NS OPS

CHANGES: Procedure ident. Descent angle.

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GQNN/NKC NOUAKCHOTT

JEPPESEN 15 JUN 12 (16-1) .Eff.28.Jun.

NOUAKCHOTT, MAURITANIA NDB Rwy 05

BRIEFING STRIP ™

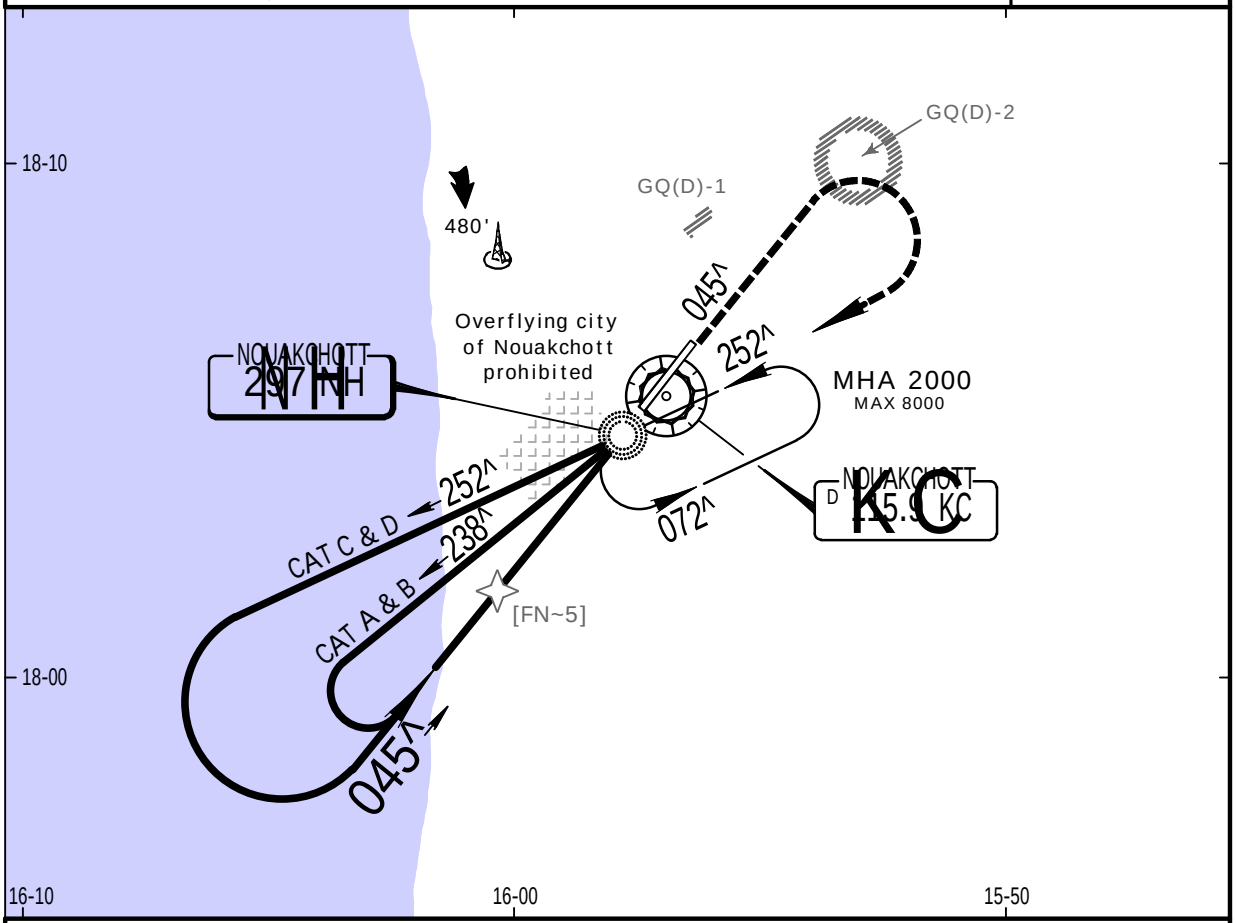
Approach Control through Tower
NOUAKCHOTT Tower
118.4

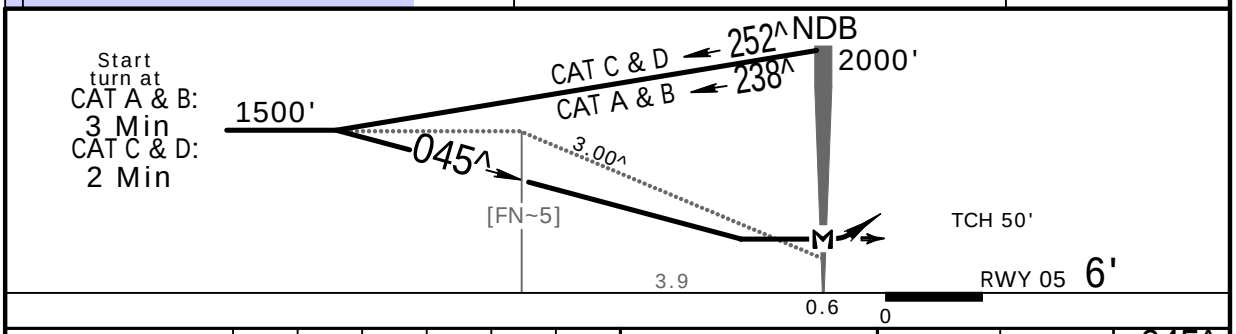
NDB NH	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev 6'
297	045^	No FAF	440' (434')	RWY 6'

MISSED APCH: Climb on 045^ from NDB to 1500', then climbing turn RIGHT to rejoin NDB at 2000'.

Alt Set: hPa | Rwy Elev: 0 hPa | Trans level: By ATC | Trans alt: 2000'

2000'
MSA KC VOR





Gnd speed-Kts	70	90	100	120	140	160
Descent angle 3.00^	372	478	531	637	743	849
MAP at NDB						

HIALS

1500' on 045^ from NH 297

.JAR-OPS. STRAIGHT-IN LANDING RWY 05

MDA(H) 440' (434')

		ALS out
A	RVR 900m	RVR 1500m
B	RVR 1000m	
C		RVR 1800m
D	RVR 1400m	RVR 2000m

CIRCLE-TO-LAND

DAY
Not authorized
Northwest of airport

Max Kts	MDA(H)	VIS	NIGHT
100	450' (444')	1500m	NOT AUTH
135	510' (504')	1600m	
180	610' (604')	2400m	
205	710' (704')	3600m	

NS OPS

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GQNN/NKC NOUAKCHOTT

JEPPESEN 15 JUN 12 (16-2) .Eff.28.Jun.

NOUAKCHOTT, MAURITANIA NDB Rwy 23

BRIEFING STRIP ™

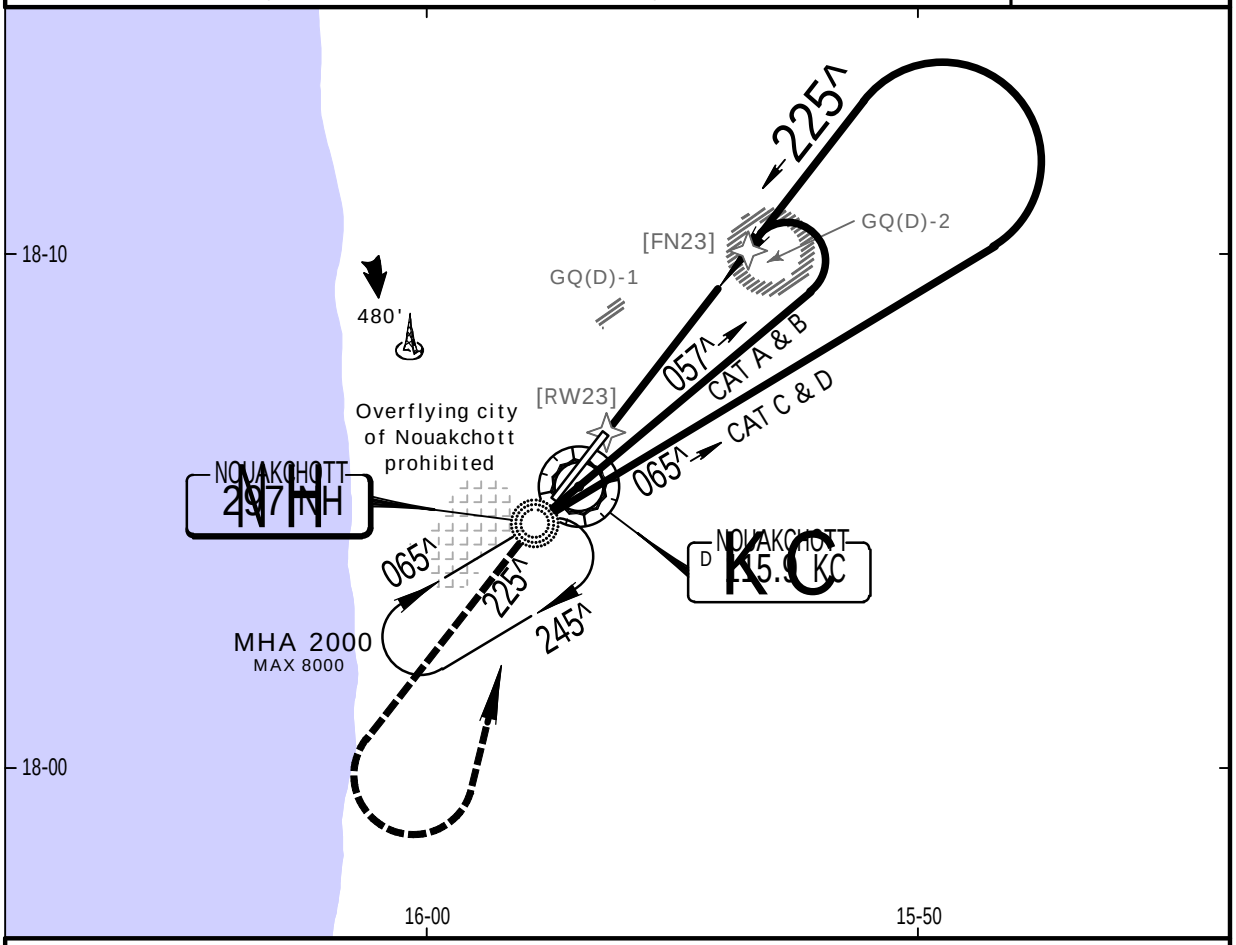
Approach Control through Tower
NOUAKCHOTT Tower
118.4

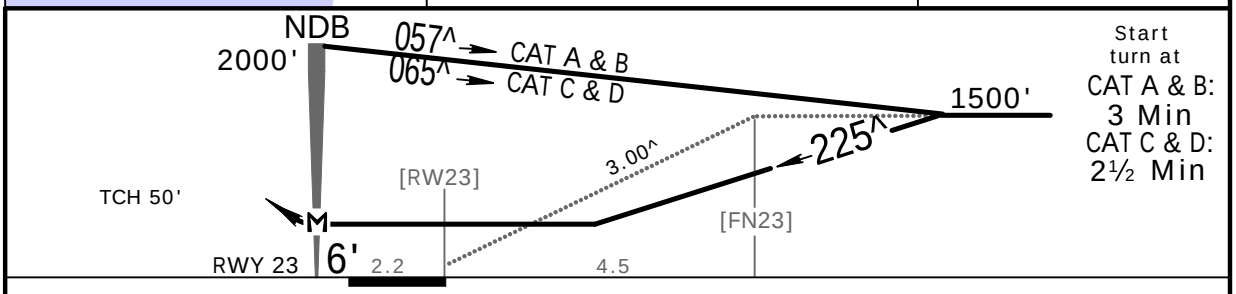
NDB NH	Final Apch Crs	Minimum Alt	MDA(H)	Apt Elev / RWY
297	225^	No FAF	440' (434')	Apt Elev 6' / RWY 6'

MISSED APCH: Climb on 225^ from NDB to 1500', then climbing turn LEFT to rejoin NDB at 2000'.

Alt Set: hPa | Rwy Elev: 0 hPa | Trans level: By ATC | Trans alt: 2000'

2000'
MSA KC VOR





Start turn at
CAT A & B: 3 Min
CAT C & D: 2½ Min

Gnd speed-Kts	70	90	100	120	140	160
Descent angle 3.00^	372	478	531	637	743	849
MAP at NDB						

REIL
PAPI-L

1500' on 225^ from NH 297

.JAR-OPS. STRAIGHT-IN LANDING RWY 23

MDA(H) 440' (434')

A	RVR 1500m	100	450' (444')	1500m	NOT AUTH
B		135	510' (504')	1600m	
C	RVR 1800m	180	610' (604')	2400m	
D	RVR 2000m	205	710' (704')	3600m	

CIRCLE-TO-LAND
DAY
Not authorized
Northwest of airport

Max Kts	MDA(H)	VIS

NIGHT

NS OPS

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