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AIRAC AIP AMDT
01
22 JAN 2026

AIRAC AIP AMENDMENT 01/26

I. Content

AD - LRCL - APRON and TWY strength updated;
- INS checkpoints on APRON 1 updated;
- AD obstacles updated;
- electronic obstacle data sets for Area 2 and Area 3 updated;
- LVP updated.

- LRTZ - MAG VAR updated;
- AD obstacles updated;
- RWY 16/34 withdrawn;
- heliport chart withdrawn;
- new FATO 16/34.

II.

Insert the following new pages and/or charts:		**Destroy the following pages and/or charts:**	
GEN 0.4-1	22 JAN 2026	GEN 0.4-1	01 JAN 2026
GEN 0.4-2	22 JAN 2026	GEN 0.4-2	01 JAN 2026
GEN 0.4-3	22 JAN 2026	GEN 0.4-3	01 JAN 2026
GEN 0.4-4	22 JAN 2026	GEN 0.4-4	01 JAN 2026
GEN 0.4-5	22 JAN 2026	GEN 0.4-5	01 JAN 2026
GEN 0.4-6	22 JAN 2026	GEN 0.4-6	01 JAN 2026
GEN 0.4-7	22 JAN 2026	GEN 0.4-7	01 JAN 2026
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AD 2.7-2	22 JAN 2026	AD 2.7-2	28 DEC 2023
AD 2.7-3	22 JAN 2026	AD 2.7-3	28 DEC 2023
AD 2.7-4	22 JAN 2026	AD 2.7-4	28 DEC 2023
AD 2.7-5	22 JAN 2026	AD 2.7-5	28 DEC 2023

II. **Insert the following new pages and/or charts:**

		Destroy the following pages and/or charts:	
AD 2.7-6	22 JAN 2026	AD 2.7-6	28 DEC 2023
AD 2.7-7	22 JAN 2026	AD 2.7-7	28 DEC 2023
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AD 2.7-10	22 JAN 2026	AD 2.7-10	28 DEC 2023
AD 2.7-11	22 JAN 2026	AD 2.7-11	10 JUL 2025
AD 2.7-12	22 JAN 2026	AD 2.7-12	10 JUL 2025
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AD 2.7-16	22 JAN 2026	AD 2.7-16	28 DEC 2023
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AD 2.7-18	22 JAN 2026	AD 2.7-18	28 DEC 2023
AD 2.7-19	22 JAN 2026	----------	
AD 2.7-19a	22 JAN 2026	----------	
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III. **Amend RECORD OF AIP AMDT (GEN 0.2) accordingly.**

IV. **Information contained in the following NOTAM is incorporated in AIRAC AIP AMDT 01/26:**
A6003/25, A6310/25, A6311/25.

END

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GEN 1.5-2	30 OCT 2025
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GEN 1.6-12	15 JUL 2025
GEN 1.6-13	15 JUL 2025
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GEN 2.2-13	02 JUL 2010
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AD 2.2-91a	04 SEP 2025	AD 2.4-29	08 APR 2010	AD 2.5-23a	30 OCT 2025
AD 2.2-92	04 SEP 2025	AD 2.4-30	17 APR 2025	AD 2.5-24	31 OCT 2024
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AD 2.2-93a	04 SEP 2025	AD 2.4-33	17 APR 2025	AD 2.5-28	08 DEC 2016
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AD 2.29-20a	20 FEB 2025
AD 2.29-22	20 FEB 2025
AD 2.29-25	15 JUN 2023
AD 2.29-26	15 JUN 2023
AD 2.29-28	15 JUN 2023
AD 2.29-30	17 APR 2025
AD 2.29-30a	15 JUN 2023
AD 2.29-31	17 APR 2025
AD 2.29-31a	15 JUN 2023
AD 2.29-32	17 APR 2025
AD 2.29-32a	15 JUN 2023
AD 2.29-33	17 APR 2025
AD 2.29-33a	15 JUN 2023
AD 2.29-34	17 APR 2025
AD 2.29-34a	15 JUN 2023
AD 2.29-35	17 APR 2025
AD 2.29-35a	15 JUN 2023
AD 2.29-52	17 APR 2025
AD 2.29-52a	15 JUN 2023
AD 2.29-71	30 OCT 2025
AD 2.29-71a	02 OCT 2025
AD 2.29-71b	02 OCT 2025
AD 2.29-71c	02 OCT 2025
AD 2.29-72	02 OCT 2025
AD 2.29-72a	02 OCT 2025
AD 2.29-72b	02 OCT 2025
AD 2.29-73	02 OCT 2025
AD 2.29-73a	02 OCT 2025
AD 2.29-73b	02 OCT 2025
AD 2.29-76	02 OCT 2025
AD 2.29-76a	15 JUN 2023
AD 2.29-76b	02 OCT 2025
AD 2.29-76c	02 OCT 2025
AD 2.29-84	17 APR 2025
AD 2.29-84a	15 JUN 2023
AD 2.30-1	02 NOV 2023
AD 2.30-2	02 NOV 2023
AD 2.30-3	02 NOV 2023
AD 2.30-4	02 NOV 2023
AD 2.30-5	02 NOV 2023
AD 2.30-6	02 NOV 2023
AD 2.30-7	02 NOV 2023
AD 2.30-8	08 AUG 2024
AD 2.30-20	02 NOV 2023
AD 2.30-40	02 NOV 2023
AD 2.31-1	30 NOV 2023
AD 2.31-2	27 NOV 2025
AD 2.31-3	27 NOV 2025
AD 2.31-4	30 NOV 2023
AD 2.31-5	08 AUG 2024
AD 2.31-20	27 NOV 2025
AD 2.31-40	18 APR 2024
AD 2.32-1	28 DEC 2023
AD 2.32-2	28 DEC 2023
AD 2.32-3	28 DEC 2023
AD 2.32-4	10 JUL 2025
AD 2.32-5	08 AUG 2024
AD 2.32-20	28 DEC 2023
AD 2.32-40	18 APR 2024
AD 2.33-1	07 AUG 2025
AD 2.33-2	07 AUG 2025
AD 2.33-3	04 SEP 2025
AD 2.33-4	07 AUG 2025
AD 2.33-5	07 AUG 2025
AD 2.33-20	07 AUG 2025
AD 2.33-40	07 AUG 2025
AD 2.34-1	04 SEP 2025
AD 2.34-2	04 SEP 2025
AD 2.34-3	04 SEP 2025
AD 2.34-4	04 SEP 2025
AD 2.34-20	04 SEP 2025
AD 2.34-40	04 SEP 2025
AD 2.35-1	27 NOV 2025
AD 2.35-2	27 NOV 2025
AD 2.35-3	27 NOV 2025
AD 2.35-4	27 NOV 2025
AD 2.35-20	27 NOV 2025
AD 2.35-40	27 NOV 2025
AD 3	
AD 3.2-1	22 APR 2021
AD 3.2-2	22 APR 2021
AD 3.2-3	13 JUL 2023
AD 3.2-4	18 APR 2024
AD 3.2-20	22 APR 2021
AD 3.2-40	18 APR 2024
AD 3.5-1	10 JUL 2025
AD 3.5-2	11 AUG 2022
AD 3.5-3	25 JAN 2024
AD 3.5-4	10 JUL 2025
AD 3.5-20	25 JAN 2024
AD 3.6-1	07 AUG 2025
AD 3.6-2	07 AUG 2025
AD 3.6-3	07 AUG 2025
AD 3.6-4	07 AUG 2025
AD 3.6-20	07 AUG 2025
AD 3.7-1	13 AUG 2020
AD 3.7-2	13 AUG 2020
AD 3.7-3	03 NOV 2022
AD 3.7-4	13 AUG 2020
AD 3.7-20	03 NOV 2022
AD 3.7-40	18 APR 2024
AD 3.7-40a	18 APR 2024
AD 3.8-1	25 MAR 2021
AD 3.8-2	25 MAR 2021
AD 3.8-3	25 MAR 2021
AD 3.8-4	25 MAR 2021
AD 3.8-20	25 MAR 2021

GEN 3.1.5 Pre-flight information service at aerodromes/heliports

1. Briefing coverage

1.1 Pre-flight information service is available at aerodromes as detailed bellow:

Aerodrome/Heliport	***Briefing coverage***
ARAD/Arad	W: MON-THU 0500-1330 FRI 0500-1100 EXC HOL S: MON-THU 0400-1230 FRI 0400-1000 EXC HOL Pre-flight information is available on request from Timişoara ARO/Briefing Telephone/Fax: +40-(0)256-494034 AFS: LRTRYOYX e-mail: aro.lrtr@romatsa.ro
	Outside ARO/Briefing Timișoara operational hours pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
BACĂU/George Enescu	Pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
BAIA MARE/Maramureş	
BRAȘOV/Brașov-Ghimbav	W: MON-THU 0500-1330 FRI 0500-1100 EXC HOL S: MON-THU 0400-1230 FRI 0400-1000 EXC HOL Pre-flight information is available on request from Timişoara ARO/Briefing Telephone/Fax: +40-(0)256-494034 AFS: LRTRYOYX e-mail: aro.lrtr@romatsa.ro
	Outside ARO/Briefing Timișoara operational hours pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
BUCUREŞTI/ Băneasa - Aurel Vlaicu	Pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
BUCUREŞTI/Henri Coandă*	Algeria, ASECNA, Austria, Bahrain, Belgium and Luxembourg, Bosnia Herzegovina, Bulgaria, Czech Republic, Croatia, China, CSI, Denmark, Egypt, Estonia, Finland, France, Greece, Germany, Hungary, Iceland, Jordan, Iran, Ireland, Israel, Italy, Kazakhstan, Lithuania, Macedonia, Malta, Norway, Netherlands, Oman, Poland, Portugal, Republic of Moldova, Romania, Serbia and Montenegro, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Thailand, Tunisia, Turkey, Ukraine, United Arab Emirates, United Kingdom.
CLUJ NAPOCA/Avram Iancu	Pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
CONSTANŢA/Mihail Kogălniceanu - Constanța**	~~W: MON-THU 0600-1430 FRI 0600-1200 EXC HOL~~ ~~S: MON-THU 0500-1330 FRI 0500-1100 EXC HOL~~ ~~Romania~~
	~~Outside ARO/Briefing Constanța operational hours~~ Pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
CRAIOVA/Craiova	Pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
IAŞI/Iaşi	
ORADEA/Oradea	
SATU MARE/Satu Mare	
SIBIU/Sibiu	
TÂRGU MUREȘ/ Transilvania -Târgu Mureş	

GEN 3.1.5 Serviciul de informare înaintea zborului la aerodromuri/heliporturi

1. Acoperire Briefing

1.1 Serviciul de informare înaintea zborului este disponibil la aerodromuri după cum urmează:

Aerodrom/Heliport	***Acoperire Briefing***
ARAD/Arad	W: MON-THU 0500-1330 FRI 0500-1100 EXC HOL S: MON-THU 0400-1230 FRI 0400-1000 EXC HOL Informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Timişoara Telefon/Fax: +40-(0)256-494034 AFS: LRTRYOYX e-mail: aro.lrtr@romatsa.ro
	În afara orelor de operare a unității ARO/Briefing Timișoara informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Bucureşti Otopeni Telefon: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
BACĂU/George Enescu	Informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Bucureşti Otopeni Telefon: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
BAIA MARE/Maramureş	
BRAȘOV/Brașov-Ghimbav	W: MON-THU 0500-1330 FRI 0500-1100 EXC HOL S: MON-THU 0400-1230 FRI 0400-1000 EXC HOL Informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Timişoara Telefon/Fax: +40-(0)256-494034 AFS: LRTRYOYX e-mail: aro.lrtr@romatsa.ro
	În afara orelor de operare a unității ARO/Briefing Timișoara informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Bucureşti Otopeni Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
BUCUREŞTI/ Băneasa - Aurel Vlaicu	Informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Bucureşti Otopeni Telefon: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
BUCUREŞTI/Henri Coandă*	Algeria, ASECNA, Austria, Bahrain, Belgia şi Luxemburg, Bosnia Herţegovina, Bulgaria, Republica Cehă, Croaţia, China, CSI, Danemarca, Egipt, Emiratele Arabe Unite, Elveţia, Estonia, Finlanda, Franţa, Grecia, Germania, Iordania, Iran, Irlanda, Islanda, Israel, Italia, Kazakhstan, Lituania, Macedonia, Malta, Norvegia, Olanda, Oman, Polonia, Portugalia, Regatul Unit al Marii Britanii, Republica Moldova, România, Serbia şi Muntenegru, Singapore, Slovacia, Slovenia, Spania, Suedia, Thailanda, Tunisia, Turcia, Ukraina, Ungaria.
CLUJ NAPOCA/Avram Iancu	Informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Bucureşti Otopeni Telefon: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
CONSTANŢA/Mihail Kogălniceanu - Constanţa**	~~W: MON-THU 0600-1430 FRI 0600-1200 EXC HOL~~ ~~S: MON-THU 0500-1330 FRI 0500-1100 EXC HOL~~ ~~România~~
	~~În afara orelor de operare a unității ARO/Briefing Constanța~~ Informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Bucureşti Otopeni Telefon: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
CRAIOVA/Craiova	Informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Bucureşti Otopeni Telefon: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
IAŞI/Iaşi	
ORADEA/Oradea	
SATU MARE/Satu Mare	
SIBIU/Sibiu	
TÂRGU MUREŞ/Transilvania - Târgu Mureş	

Aerodrome/Heliport	*Briefing coverage*
SUCEAVA/Ştefan cel Mare - Suceava	Pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
TIMIŞOARA/Traian Vuia*	W: MON-THU 0500-1330 FRI 0500-1100 EXC HOL S: MON-THU 0400-1230 FRI 0400-1000 EXC HOL Romania
	Outside ARO/Briefing Timișoara operational hours pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
TULCEA/Delta Dunării	~~W: MON-THU 0600-1430 FRI 0600-1200 EXC HOL~~ ~~S: MON-THU 0500-1330 FRI 0500-1100 EXC HOL~~ ~~Pre-flight information is available on request from Constanţa ARO/Briefing~~ ~~Telephone/Fax: +40-(0)241-742158~~ ~~AFS: LRCKYOYX~~ ~~e-mail: aro.lrck@romatsa.ro~~
	~~Outside ARO/Briefing Constanța operational hours~~ Pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
TUZLA/Tuzla	Romania

* The ARO/Briefing units are connected to the European AIS Database (EAD).
** ARO/Briefing Unit part time assisted by local staff.

1.2 At all controlled aerodromes where ARO/Briefing units are not established, Briefing Rooms are available and PIB is provided on request via printer (network connection with the responsible ARO/Briefing) or by fax as detailed in 5.1.1. above. Telephone connections with responsible ARO/Briefing are available at locations.

2. Available PIB types

The following types of PIB can be made available:

a) Aerodrome PIB;
b) Area PIB;
c) Route PIB;
d) Narrow Route PIB;
e) Updates concerning PIB's listed above.

GEN 3.1.6 Digital data sets

1. Electronic terrain data sets
Electronic terrain data sets are not available.

2. Electronic obstacle data sets
2.1 Area 1
Electronic obstacle data set for Area 1, as specified in ICAO Annex 15, is not available for Romania. Electronic list containing obstacles published in section ENR 5.4 is available in csv format. This list is available on request by e-mail:

Romanian Air Traffic Services Administration – ROMATSA
Aeronautical Information Management (AIM) Unit
e-mail: ais@aisro.ro, ais@romatsa.ro
web: https://www.aisro.ro

Aerodrom/Heliport	*Acoperire Briefing*
SUCEAVA/Ştefan cel Mare - Suceava	Informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Bucureşti Otopeni Telefon: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
TIMIŞOARA/Traian Vuia*	W: MON-THU 0500-1330 FRI 0500-1100 EXC HOL S: MON-THU 0400-1230 FRI 0400-1000 EXC HOL România
	În afara orelor de operare a unității ARO/Briefing Timișoara informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Bucureşti Otopeni Telefon: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
TULCEA/Delta Dunării	~~W: MON-THU 0600-1430 FRI 0600-1200 EXC HOL~~ ~~S: MON-THU 0500-1330 FRI 0500-1100 EXC HOL~~ ~~Informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Constanţa~~ ~~Telefon/Fax: +40-(0)241-742158~~ ~~AFS: LRCKYOYX~~ ~~e-mail: aro.lrck@romatsa.ro~~
	~~În afara orelor de operare a unității ARO/Briefing Constanța~~ Informaţiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Bucureşti Otopeni Telefon: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
TUZLA/Tuzla	România

* Unităţile ARO/Briefing sunt conectate la Baza de date AIS Europeană (EAD).
** Unitate ARO/Briefing asistată parțial cu personal propriu.

1.2 La toate aerodromurile controlate unde nu sunt stabilite unităţi ARO/Briefing, sunt disponibile încăperi Briefing şi PIB este furnizat la cerere, pe imprimantă (legată în reţea cu ARO/Briefing responsabil) sau prin fax în concordanţă cu 5.1.1. de mai sus. La aceste amplasamente sunt disponibile legături telefonice cu ARO/Briefing responsabil.

2. Tipuri de PIB disponibile

Următoarele tipuri de PIB pot fi disponibile:
a) PIB de aerodrom
b) PIB de zonă;
c) PIB de rută;
d) PIB de rută îngustă;
e) actualizări ale tipurilor de PIB enumerate mai sus.

GEN 3.1.6 Seturi de date digitale

1. Seturi de date digitale de teren
Seturile de date digitale de teren nu sunt disponibile.

2. Seturi de date digitale de obstaculare
2.1 Zona 1
Seturile de date digitale de obstaculare pentru Zona 1, conforme cu specificaţiile din Anexa 15 OACI, nu sunt disponibile pentru România. O listă electronică conţinând obstacolele din secţiunea ENR 5.4 este disponibilă în format csv. Această listă este disponibilă la cerere prin e-mail:

Administrația Română a Serviciilor de Trafic Aerian – ROMATSA
Serviciul Managementul Informațiilor Aeronautice (AIM)
e-mail: ais@aisro.ro; ais@romatsa.ro;
web: https://www.aisro.ro

1	2	3	4
Aerodrome Chart - ICAO*	1:2 500	**GRADIŞTEA/Grădiştea**	
(AC)	1:15 000	**IAŞI/Iaşi**	
	1:4 000	**IAŞI/Iaşi-Sud**	
		ORADEA/Oradea	
	1:5 000	**PITEŞTI/Geamăna**	
	1:5 000	**PLOIEŞTI/Gheorghe Valentin Bibescu-Ploieşti**	
		SATU-MARE/Satu-Mare	
		SIBIU/Sibiu	
	1:20 000	**SUCEAVA/Ştefan cel Mare-Suceava**	
	1:5000	**TÂRGU MUREȘ/Mureșeni**	
	1:15 000	**TÂRGU MUREŞ/Transilvania-Târgu Mureş**	
		TIMIŞOARA/Traian Vuia	
	1:20 000	**TULCEA/Delta Dunării**	
	1:7 000	**TUZLA/Tuzla**	
Heliport Chart - ICAO*	1:2 000	**BRAŞOV/Cobrex**	
(HC)	1:2 500	**GHIMBAV/IAR Braşov**	
	1:2 000	**GHIMBAV/MIR AERO-Braşov**	
	1:1 000	**NĂVODARI/Midia-Constanţa**	
	1:500	**ORADEA/SMURD BH 2**	
	1:1 000	**OŞORHEI/Dogaru**	
	~~1:1 000~~	~~**TUZLA/Tuzla**~~	
Aircraft Parking/Docking Chart - ICAO*		**ARAD/Arad - APRON 1/APRON 2**	
		BACĂU/George Enescu	
		BAIA MARE/Maramureş	
		BRAŞOV/Braşov-Ghimbav	
		BUCUREŞTI/Băneasa-Aurel Vlaicu	
		BUCUREŞTI/Henri Coandă - APRON 1	
		BUCUREŞTI/Henri Coandă - APRON 2	
		BUCUREŞTI/Henri Coandă - APRON 3	
		CLUJ NAPOCA/Avram Iancu - APRON 1	
		CLUJ NAPOCA/Avram Iancu - APRON 2	
		CONSTANŢA/Mihail Kogălniceanu-Constanţa	
		CRAIOVA/Craiova - APRON 1	
		CRAIOVA/Craiova - APRON 2	
		CRAIOVA/Craiova - APRON 3 / APRON 4	
		IAŞI/Iaşi	
		ORADEA/Oradea - APRON 1	
		ORADEA/Oradea - APRON 2	
		PLOIEȘTI/Gheorghe Valentin Bibescu-Ploiești	
		SATU MARE/Satu Mare	
		SIBIU/Sibiu	
		SUCEAVA/Ştefan cel Mare-Suceava - APRON 1	
		SUCEAVA/Ştefan cel Mare-Suceava - APRON 2	
		TÂRGU MUREŞ/Transilvania-Târgu Mureş - APRON 1	
		TÂRGU MUREŞ/Transilvania-Târgu Mureş - APRON 2	
		TIMIŞOARA/Traian Vuia - APRON	
		TULCEA/Delta Dunării	
Aerodrome Obstacle Chart - ICAO*	1:10 000	**ARAD/Arad**	**AOC - A 27**
TYPE A (AOC)	1:10 000	**ARAD/Arad**	**AOC - A 09**
	1:15 000	**BACĂU/George Enescu**	**AOC - A 16**
	1:15 000	**BACĂU/George Enescu**	**AOC - A 34**
	1:15 000	**BAIA MARE/Maramureş**	**AOC - A 09/27**
	1:15 000	**BRAŞOV/Braşov-Ghimbav**	**AOC - A 21/03**
	1:15 000	**BUCUREŞTI/Băneasa-Aurel Vlaicu**	**AOC - A 07**
	1:15 000	**BUCUREŞTI/Băneasa-Aurel Vlaicu**	**AOC - A 25**
	1:15 000	**BUCUREŞTI/Henri Coandă**	**AOC - A 08R/26L**
	1:15 000	**BUCUREŞTI/Henri Coandă**	**AOC - A 08L/26R**
	1:15 000	**CLUJ NAPOCA/Avram Iancu**	**AOC - A 07**
	1:15 000	**CLUJ NAPOCA/Avram Iancu**	**AOC - A 25**
	1:15 000	**CONSTANŢA/Mihail Kogălniceanu-Constanţa**	**AOC - A 36/18**
	1:15 000	**CRAIOVA/Craiova**	**AOC - A 08/26**
	1:20 000	**IAŞI/Iaşi**	**AOC - A 14/32**
	1:15 000	**ORADEA/Oradea**	**AOC - A 01**
	1:15 000	**ORADEA/Oradea**	**AOC - A 19**
	1:15 000	**SATU MARE/Satu Mare**	**AOC - A 01**
	1:15 000	**SATU MARE/Satu Mare**	**AOC - A 19**
	1:15 000	**SIBIU/Sibiu**	**AOC - A 09**
	1:15 000	**SIBIU/Sibiu**	**AOC - A 27**
	1:20 000	**SUCEAVA/Ştefan cel Mare-Suceava**	**AOC - A 16/34**
	1:15 000	**TÂRGU MUREŞ/Transilvania - Târgu Mureş**	**AOC - A 07**
	1:15 000	**TÂRGU MUREŞ/Transilvania - Târgu Mureş**	**AOC - A 25**
	1:15 000	**TIMIŞOARA/Traian Vuia**	**AOC - A 11**
	1:15 000	**TIMIŞOARA/Traian Vuia**	**AOC - A 29**
	1:15 000	**TULCEA/Delta Dunării**	**AOC - A 16**
	1:15 000	**TULCEA/Delta Dunării**	**AOC - A 34**

1	2	3	4
Aerodrome Ground Movement Chart - ICAO*	1:25 000	**BUCUREŞTI/Henri Coandă** **CLUJ NAPOCA/Avram Iancu** **PLOIEȘTI/Gheorghe Valentin Bibescu-Ploiești** **TULCEA/Delta Dunării**	
Visual Approach Chart - ICAO* (VAC)	NIL		
Precision Approach Terrain Chart - ICAO* (PATC)		**ARAD/Arad**	
	1:2 500	LRAR PATC RWY 27	
		BACĂU/George Enescu	
	1:2 500	LRBC PATC RWY 16	
	1:2 500	LRBC PATC RWY 34	
		BAIA MARE/Maramureş	
	1:2 500	LRBM PATC RWY 09	
		BRAŞOV/Braşov-Ghimbav	
	1:2 500	LRBV PATC RWY 21	
		BUCUREŞTI/Băneasa-Aurel Vlaicu	
	1:2 500	LRBS PATC RWY 07	
		BUCUREŞTI/Henri Coandă	
	1:2 500	LROP PATC RWY 08R	
		LROP PATC RWY 08L	
		CLUJ NAPOCA/Avram Iancu	
		LRCL PATC RWY 25	
		CONSTANŢA/Mihail Kogălniceanu-Constanţa	
	1:2 500	LRCK PATC RWY 36	
		CRAIOVA/Craiova	
	1:2 500	LRCV PATC RWY 26	
		IAŞI/Iaşi	
	1:2 500	LRIA PATC RWY 14	
		SATU MARE/Satu Mare	
	1:2 500	LRSM PATC RWY 19	
		SIBIU/Sibiu	
	1:2 500	LRSB PATC RWY 27	
		SUCEAVA/Ştefan cel Mare-Suceava	
		LRSV PATC RWY 34	
		TÂRGU MUREŞ/Transilvania-Târgu Mureş	
	1:2 500	LRTM PATC RWY 07	
		TIMISOARA/Traian Vuia	
	1:2 500	LRTR PATC RWY 11	
	1:2 500	LRTR PATC RWY 29	
		ORADEA/Oradea	
	1:2 500	LROD PATC RWY 19	
RNAV Departure Chart*		**ARAD/Arad**	
		LRAR RWY 09	
		LRAR RWY 27	
		BRAŞOV/Braşov-Ghimbav	
	1:500 000	LRBV RWY 21	
	1:500 000	LRBV RWY 03	
		BUCUREŞTI/Băneasa-Aurel Vlaicu	
		LRBS RWY 07	
		LRBS RWY 25	
		BUCUREŞTI/Henri Coandă	
		LROP RWY 08L/R	
		LROP RWY 26L/R	
		CLUJ NAPOCA/Avram Iancu	
		LRCL RWY 07	
		LRCL RWY 25	
		CRAIOVA/Craiova	
	1:500 000	LRCV RWY 08	
	1:500 000	LRCV RWY 26	
		SIBIU/Sibiu	
		LRSB RWY 09	
		LRSB RWY 27	
		TÂRGU MUREŞ/Transilvania-Târgu Mureş	
		LRTM RWY 07	
		LRTM RWY 25	
		TIMIŞOARA/Traian Vuia	
		LRTR RWY 11	
		LRTR RWY 29	
RNAV Arrival Chart*		**ARAD/Arad**	
		LRAR RWY 09	
		LRAR RWY 27	
		BUCUREŞTI/Băneasa-Aurel Vlaicu	
		LRBS RWY 07	
		LRBS RWY 25	
		BUCUREŞTI/Henri Coandă	
		LROP RWY 08L/R	
		LROP RWY 26L/R	

1	2	3	4
RNAV Arrival Chart*		**CLUJ NAPOCA/Avram Iancu**	
		LRCL RWY 07	
		LRCL RWY 25	
		SIBIU/Sibiu	
		LRSB RWY 09	
		LRSB RWY 27	
		TÂRGU MUREŞ/Transilvania-Târgu Mureş	
		LRTM RWY 07	
		LRTM RWY 25	
		TIMIŞOARA/Traian Vuia	
		LRTR RWY 11	
		LRTR RWY 29	
Standard Departure Chart - Instrument - ICAO* (SID)		**ARAD/Arad**	
		LRAR RWY 09	
		LRAR RWY 27	
		BACĂU/George Enescu	
	1:500 000	LRBC RWY 16	
	1:500 000	LRBC RWY 34	
		BAIA MARE/Maramureş	
	1:500 000	LRBM RWY 27	
		BRAŞOV/Braşov-Ghimbav	
	1:500 000	LRBV RWY 21	
	1:500 000	LRBV RWY 03	
		BUCUREŞTI/Băneasa-Aurel Vlaicu	
		LRBS RWY 07	
		LRBS RWY 25	
		BUCUREŞTI/Henri Coandă	
		LROP RWYs 08L/R	
		LROP RWYs 26L/R	
		CLUJ-NAPOCA/Avram Iancu	
		LRCL RWY 07/25	
		CONSTANŢA/Mihail Kogălniceanu - Constanţa	
		LRCK RWY 18	
		LRCK RWY 36	
		CRAIOVA/Craiova	
	1:500 000	LRCV RWY 26	
	1:500 000	LRCV RWY 08	
		IAŞI/Iaşi	
	1:500 000	LRIA RWY 14	
	1:500 000	LRIA RWY 32	
		SATU MARE/Satu Mare	
	1:500 000	LRSM RWY 19	
	1:500 000	LRSM RWY 01	
		SIBIU/Sibiu	
		LRSB RWY 09	
		LRSB RWY 27	
		SUCEAVA/Ştefan Cel Mare-Suceava	
	1:500 000	LRSV RWY 16	
	1:500 000	LRSV RWY 34	
		TÂRGU MUREŞ/Transilvania - Târgu Mureş	
		LRTM RWY 07	
		LRTM RWY 25	
		TIMIŞOARA/Traian Vuia-Timişoara	
		LRTR RWY 11	
		LRTR RWY 29	
Standard Arrival Chart - Instrument - ICAO* (STAR)		**ARAD/Arad**	
		LRAR RWY 09	
		LRAR RWY 27	
		BUCUREŞTI/Băneasa-Aurel Vlaicu	
		LRBS RWY 07	
		LRBS RWY 25	
		BUCUREŞTI/Henri Coandă	
		LROP RWYs 08L/R	
		LROP RWYs 26L/R	
		CLUJ-NAPOCA/Avram Iancu	
		LRCL RWY 07	
		LRCL RWY 25	
		CONSTANŢA/Mihail Kogălniceanu - Constanţa	
		LRCK RWY 18	
		LRCK RWY 36	
		SIBIU/Sibiu	
		LRSB RWY 27	
		TÂRGU MUREŞ/Transilvania - Târgu Mureş	
		LRTM RWY 07/25	
		TIMIŞOARA/Traian Vuia - Timişoara	
		LRTR RWY 11	
		LRTR RWY 29	

1	2	3	4
ATC Surveillance Minimum Altitude Chart - ICAO*		**ARAD/Arad** **BUCUREŞTI/Băneasa-Aurel Vlaicu** **BUCUREŞTI/Henri Coandă** **CLUJ-NAPOCA/Avram Iancu** **CONSTANŢA/Mihail Kogălniceanu - Constanţa** **SIBIU/Sibiu** **TÂRGU MUREŞ/Transilvania - Târgu Mureş** **TIMIŞOARA/Traian Vuia - Timişoara**	
En-route Charts * / Area Charts * - ICAO	1:1 000 000	**ENROUTE CHART - LOWER AIRSPACE** **Free Route Airspace** **Lateral and Vertical Limits of SEE FRA - BUCUREŞTI CTA within SEE FRA**	10 10
		ARAD TMA Lateral and vertical limits **BUCUREŞTI TMA Lateral and vertical limits** **NAPOC TMA Lateral and vertical limits** **Flight Information Service (FIS) Areas**	
Index Charts *		**Prohibited, Restricted and Danger Areas - Upper Airspace** **Temporary Reserved Areas (TRA) Upper Airspace** **Prohibited, Restricted and Danger Areas - Lower Airspace** **Temporary Reserved/Segregated Areas (TRA/TSA) Lower Airspace** **Aerodromes and heliports - index chart**	
VFR Chart - ICAO 1:500.000	1:500 000	**VFR Chart North-West ROMANIA (LR-NW)** **VFR Chart North-East ROMANIA (LR-NE)** **VFR Chart South-East ROMANIA (LR-SE)** **VFR Chart South-West ROMANIA (LR-SW)**	5 5 5 5
VFR Chart - ICAO 1:300.000 *	1:300 000	**NAPOC TMA VFR Routes**	5
Visual Operations Chart*		**ARAD/Arad**	
	1:35 000	LRAR Aerodrome traffic circuit	
		BUCUREŞTI/Băneasa-Aurel Vlaicu	
	1:70 000	LRBS RWY 07/25 Aerodrome traffic circuit - Aircraft categories A and H	
	1:150 000	LRBS VFR Routes - Aircraft categories A and H	
		BUCUREŞTI/Henri Coandă	
	1:200 000	LROP Aircraft categories A and H	
		CARANSEBEŞ/Banat-Caransebeş	
	1:35 000	LRCS RWY 10/28 Aerodrome traffic circuit	
		CISNĂDIE/Măgura	
	1:30 000	LRCD RWY 14/32 Aerodrome traffic circuit	
		PLOIEŞTI/Gheorghe Valentin Bibescu-Ploieşti	
	1:50 000	LRPW RWY 07/25 Aerodrome traffic circuit	
	1:50 000	LRPW Heliport traffic circuit 09/27	
		TUZLA/Tuzla	
	1:50 000	LRTZ RWY 04/22 Aerodrome traffic circuit	
	1:50 000	LRTZ FATO 16/34 Aerodrome traffic circuit	
		BRAŞOV/Sânpetru	
	1:15 000	LRSP RWY12/30 Aerodrome traffic circuit	
		PITEŞTI/Geamăna	
	1:50 000	LRPT RWY 05 Powered aircraft aerodrome traffic circuit	
	1:50 000	LRPT RWY 23 Glider aerodrome traffic circuit	
		DEVA/Săuleşti-Constantin Manolache	
	1:35 000	LRDV RWY 12/30 Aerodrome traffic circuit	
		ARAD/Charlie-Bravo Şiria	
	1:20 000	LRCB RWY 18/36 Aerodrome traffic circuit	
		BISTRIŢA/Bistriţa	
	1:25 000	LRBN RWY 05/23 Aerodrome traffic circuit	
		GRĂDIŞTEA/Grădiştea	
	1:30 000	LRBA RWY 04/22 Aerodrome traffic circuit	
		CLINCENI/Clinceni	
	1:30 000	LRCN Aerodrome traffic circuit	
		DEZMIR/Dezmir	
	1:30 000	LRCJ RWY 08/26 Aerodrome traffic circuit	
		GHEORGHENI/Remetea	
	1:50 000	LRHR RWY 09/27 Aerodrome traffic circuit	
		CRAIOVA/Craiova-Sud	
	1:30 000	LRCW RWY 12/30 Aerodrome traffic circuit	
		IAŞI/Iaşi-Sud	
	1:35 000	LRIS RWY 13/31 Aerodrome traffic circuit	
		GHIMBAV/IAR BRAŞOV	
	1:30 000	**ORADEA/SMURD BH 2**	
		TÂRGU MUREŞ/Mureşeni	
	1:30 000	LRMS RWY 05/23 Aerodrome traffic circuit	
		BRAŞOV/Corona	
	1:50 000	LRCR RWY 17/35 Aerodrome traffic circuit	

(b) In the event of a delay of 30 minutes in excess of the estimated off-block time for a controlled flight or a delay of 1 hour for an uncontrolled flight for which a flight plan has been submitted, the flight plan shall be amended, or a new flight plan submitted, and the old flight plan cancelled, whichever is applicable. For any flight operated in accordance with IFR, delays of more than 15 minutes shall be communicated to the IFPS (EUROCONTROL) as Network Manager.
(c) In the case of a change in the aircraft equipment and its capability status for a flight, aircraft operators, or the agents that act on their behalf, shall send a modification message to the IFPS (EUROCONTROL) or the air traffic services reporting offices with the appropriate indicator inserted in the relevant item of the flight plan form.
(d) Information submitted prior to departure regarding fuel endurance or total number of persons carried on board, if incorrect at the time of departure, constitutes a significant change to the flight plan and, as such, shall be reported.

2.5 For any IFR flight or IFR part of a VFR/IFR flight arriving, overflying or departing IFPZ, a flight plan shall be submitted, directly or through the responsible ARO/Briefing serving the departure aerodrome, to IFPS.

Departure aerodrome	Responsible ARO/Briefing	Operational hours	Telephone	Fax
LRAR, LRBV, LRTR	ARO/Briefing Timişoara	W: MON-THU 0500-1330 FRI 0500-1100 EXC HOL S: MON-THU 0400-1230 FRI 0400-1000 EXC HOL	+40 (0) 256 494 034	+40 (0) 256 494 034
	ARO/Briefing Bucureşti Otopeni	Outside ARO/Briefing Timișoara operational hours	+40 (0) 212 032 122 +40 (0) 212 032 127 +40 (0) 213 114 315 +40 (0) 213 114 316	+40 (0) 212 032 127 +40 (0) 213 114 316
LRBC, LRBM, LROP, LRBS, LRCL, LRCK, LRCV, LRIA, LROD, LRSM, LRSB, LRSV, LRTM, LRTC	ARO/Briefing Bucureşti Otopeni	H24	+40 (0) 212 032 122 +40 (0) 212 032 127 +40 (0) 213 114 315 +40 (0) 213 114 316	+40 (0) 212 032 127 +40 (0) 213 114 316
~~LRCK, LRTC~~	~~ARO/Briefing Constanţa~~	~~W: MON-THU 0600-1430 FRI 0600-1200 EXC HOL S: MON-THU 0500-1330 FRI 0500-1100 EXC HOL~~	~~+40 (0) 241 742 158~~	~~+40 (0) 241 742 158~~
	~~ARO/Briefing Bucureşti Otopeni~~	~~Outside ARO/Briefing Constanța operational hours~~	~~+40 (0) 212 032 122 +40 (0) 212 032 127 +40 (0) 213 114 315 +40 (0) 213 114 316~~	~~+40 (0) 212 032 127 +40 (0) 213 114 316~~

For any part of a flight that is carried out within IFPZ, flight plan must be submitted in accordance with the provisions contained the above specified documents, preferably using the IFPS readdressing function.
For the VFR flights departing from an uncontrolled aerodrome for which submission of a flight plan is required prior to departure, the flight plan shall be submitted to the nearest ARO/Briefing as listed above.
In order to obtain clearance for crossing a controlled area or landing at a controlled aerodrome for a flight operated under the VFR rules, the crew of an aircraft in flight may transmit a simplified flight plan to the responsible ATS unit.
The flight plan may be submitted by fax, under the condition that the flight plan is forwarded on ICAO flight plan form and a confirmation for the acceptance of the flight plan is requested from ARO.
The flight plan may be submitted via website: http://flightplan.romatsa.ro . Prior user registration is required.
The flight plan may be submitted by telephone to the nearest ARO/Briefing only if the following conditions are met:
- the aircraft is performing a domestic VFR/GAT flight during day time;
- the aircraft departs from a field or from a water surface where no other communication means are available (AFTN/Fax).

(b) În cazul unei întârzieri de 30 de minute care depășește ora estimată de plecare de la locul de staționare pentru un zbor controlat sau al unei întârzieri de o oră pentru un zbor necontrolat pentru care a fost depus un plan de zbor, planul de zbor trebuie modificat sau trebuie depus un nou plan de zbor, iar vechiul plan de zbor trebuie anulat, după caz. Pentru orice zbor operat în conformitate cu IFR, întârzierile mai mari de 15 minute se comunică IFPS (EUROCONTROL), în calitate de administrator de rețea.
(c) În cazul unei modificări a echipamentelor aeronavei și a nivelului capacității acestora pentru un zbor, operatorii de aeronave sau agenții care acționează în numele lor trebuie să trimită un mesaj de modificare la IFPS (EUROCONTROL) sau birourilor de raportare ale serviciilor de trafic aerian, cu indicatorul corespunzător introdus la elementul relevant din formularul planului de zbor.
(d) Dacă informațiile transmise înainte de plecare cu privire la autonomia aeronavei sau numărul total de persoane la bord sunt incorecte la momentul plecării, acestea constituie o modificare semnificativă a planului de zbor și, ca urmare, trebuie raportate.

2.5 Pentru orice zbor IFR, inclusiv pentru porţiunile de zbor IFR ale zborurilor mixte IFR/VFR, care intră în, survolează sau pleacă din IFPZ, trebuie să fie depus un plan de zbor către IFPS, direct sau prin intermediul unităţii ARO/Briefing responsabile care deserveşte aerodromul de plecare.

Aerodromul de plecare	ARO/Briefing responsabil	Ore de funcţionare	Telefon	Fax
LRAR, LRBV, LRTR	ARO/Briefing Timişoara	W: MON-THU 0500-1330 FRI 0500-1100 EXC HOL S: MON-THU 0400-1230 FRI 0400-1000 EXC HOL	+40 (0) 256 494 034	+40 (0) 256 494 034
	ARO/Briefing Bucureşti Otopeni	În afara orelor de operare a unității ARO/Briefing Timișoara	+40 (0) 212 032 122 +40 (0) 212 032 127 +40 (0) 213 114 315 +40 (0) 213 114 316	+40 (0) 212 032 127 +40 (0) 213 114 316
LRBC, LRBM, LROP, LRBS, LRCL, LRCK, LRCV, LRIA, LROD, LRSM, LRSB, LRSV, LRTM, LRTC	ARO/Briefing Bucureşti Otopeni	H24	+40 (0) 212 032 122 +40 (0) 212 032 127 +40 (0) 213 114 315 +40 (0) 213 114 316	+40 (0) 212 032 127 +40 (0) 213 114 316
~~LRCK, LRTC~~	~~ARO/Briefing Constanţa~~	~~W: MON-THU 0600-1430 FRI 0600-1200 EXC HOL S: MON-THU 0500-1330 FRI 0500-1100 EXC HOL~~	~~+40 (0) 241 742 158~~	~~+40 (0) 241 742 158~~
	~~ARO/Briefing Bucureşti Otopeni~~	~~În afara orelor de operare a unității ARO/Briefing Constanța~~	~~+40 (0) 212 032 122 +40 (0) 212 032 127 +40 (0) 213 114 315 +40 (0) 213 114 316~~	~~+40 (0) 212 032 127 +40 (0) 213 114 316~~

Pentru orice porţiune a unui zbor care se desfăşoară în afara IFPZ, planul de zbor trebuie transmis în conformitate cu cerinţele cuprinse în documentele specificate la punctul 1 de mai sus, de preferat utilizând funcţia de readresare a IFPS.
Pentru zborurile VFR care pleacă de pe un aerodrom necontrolat şi pentru care este necesar a se depune un plan de zbor anterior decolării, planul de zbor trebuie transmis la cea mai apropiată dintre unităţile ARO/Briefing enumerate mai sus.
În scopul obţinerii aprobării pentru traversarea unui spaţiu controlat sau pentru aterizarea pe un aerodrom controlat, echipajul unei aeronave care efectuează un zbor VFR poate transmite din zbor, către unitatea ATS competentă, un plan de zbor simplificat.
Planul de zbor poate fi transmis prin fax la ARO/Briefing cu condiţia ca acesta să fie completat pe un formular plan de zbor ICAO şi să se solicite ulterior de la ARO/Briefing confirmarea acceptării planului de zbor.
Planul de zbor poate fi depus prin internet accesând site-ul web: http://flightplan.romatsa.ro. Este necesară înregistrarea anterioară a utilizatorilor.
Planurile de zbor pot fi depuse prin telefon, la cea mai apropiată unitate ARO/Briefing numai dacă se îndeplinesc cumulativ următoarele condiţii:
- aeronava execută un zbor VFR/GAT intern pe timp de zi;
- aeronava decolează de pe un teren sau o suprafaţă de apă, unde nu sunt disponibile alte mijloace de comunicaţie (AFTN/fax).

ENR 1.11 ADDRESSING OF FLIGHT PLAN MESSAGES

Movement messages relating to traffic into or via BUCUREŞTI FIR shall be addressed as stated below in order to warrant correct relay and delivery.

Category of flight (IFR, VFR or both)	Route (into or via FIR and/or TMA)	Message address
IFR/GAT flights	Into, via or leaving BUCUREŞTI FIR	EUCHZMFP, EUCBZMFP
VFR flights	Into or via BUCUREŞTI FIR	- LRBBZQZX and - to the control tower of the destination aerodrome (….ZTZX), if applicable
	Departing from a controlled aerodrome within BUCUREŞTI FIR	Only to the ARO/Briefing Unit in charge:
	LRAR LRBV LRTR	LRTRYOYX W: MON-THU 0500-1330 FRI 0500-1100 EXC HOL S: MON-THU 0400-1230 FRI 0400-1000 EXC HOL LROPYOYX Outside ARO/Briefing Timișoara operational hours
	LRBC LRBM LROP LRBS LRCL LRCK LRCV LRIA LROD LRSM LRSB LRSV LRTC LRTM	LROPYOYX
	~~LRCK~~ ~~LRTC~~	~~LRCKYOYX~~ ~~W: MON-THU 0600-1430~~ ~~FRI 0600-1200 EXC HOL~~ ~~S: MON-THU 0500-1330~~ ~~FRI 0500-1100 EXC HOL~~ ~~LROPYOYX~~ ~~Outside ARO/Briefing Constanța operational hours~~
	Where the VFR portion of the flight lies within BUCUREŞTI FIR	- EUCHZMFP, EUCBZMFP and Supplying in extra address line(s) the corresponding addresses for VFR flights
Mixed IFR/VRF flights		-

ENR 1.11 ADRESAREA MESAJELOR PLAN DE ZBOR

Pentru a garanta retransmiterea şi distribuirea corectă, mesajele de mişcare referitoare la traficul înspre sau care tranzitează FIR BUCUREŞTI trebuie să fie adresate după cum urmează:

Categoria zborului (IFR, VFR sau ambele)	**Ruta (înspre sau via FIR şi/sau TMA)**	**Adresarea mesajelor**
Zboruri IFR/GAT	Înspre, via sau plecând din FIR BUCUREŞTI	EUCHZMFP, EUCBZMFP
Zboruri VFR	Înspre sau via FIR BUCUREŞTI	- LRBBZQZX şi - Turnului de control al aerodromului de destinaţie (….ZTZX), dacă este cazul.
	Cu plecare de pe un aerodrom controlat situat în FIR BUCUREŞTI	Numai la unitatea ARO/Briefing responsabilă:
	LRAR LRBV LRTR	LRTRYOYX W: MON-THU 0500-1330 FRI 0500-1100 EXC HOL S: MON-THU 0400-1230 FRI 0400-1000 EXC HOL LROPYOYX În afara orelor de operare a unității ARO/Briefing Timișoara
	LRBC LRBM LROP LRBS LRCL LRCK LRCV LRIA LROD LRSM LRSB LRSV LRTC LRTM	LROPYOYX
	~~LRCK~~ ~~LRTC~~	~~LRCKYOYX~~ ~~W: MON-THU 0600-1430~~ ~~FRI 0600-1200 EXC HOL~~ ~~S: MON-THU 0500-1330~~ ~~FRI 0500-1100 EXC HOL~~ ~~LROPYOYX~~ ~~În afara orelor de operare a unității ARO/Briefing Constanța~~
	Dacă porţiunea de zbor VFR este în FIR BUCUREŞTI.	- EUCHZMFP, EUCBZMFP şi În linia (liniile) de extra-adrese, se furnizează adresele corespunzătoare pentru zborurile VFR.
Zboruri mixte IFR/VRF		-

b. FOLLOW ME vehicle assistance, may be requested by the pilot via TWR.
c. Entry to the stand for aircraft shall be made with guidance by the ground dispatcher;
d. Upon arrival, helicopters will land on the runway and run on the ground / air according to standard runways. From the entrance on TWY F, the commander of the aircraft follows the markings to the point where he sees the ground dispatcher, following his signals until he stop.
e. If the pilot of a aircraft, operating on TWY F, does not have the ground dispatcher in sight, near the parking position communicated by TWR, he stops the aircraft and requests ATC, his presence.
f. The starting of the engines will be performed at the signals of the ground dispatcher only.
g. For aircraft with the letter code "A" or "B": exit from the stand without "push-back" if possible from the point of view of the maneuvering space, is performed only under the guidance of the ground dispatcher.
h. For aircraft with the code letters "C" and "D": exit from the stand is performed only with push-back or with its own engines if the push-back equipment is not operational and there is maneuvering space.
i. The helicopters, for departure, taxi on the ground /air, following the marking, from the parking position to the runway.

1.2 Helicopter parking area
a. Helicopters will be parked on the platform in a marked / unmarked position with the guidance of the ground dispatcher.
b. Repositioning of helicopters on the platform is permitted with air / ground taxiing in compliance with the ground dispatcher's signals.

1.3 Taxi - limitations
a. For aircraft with code letters C and D, after landing in direction 16, turning is permitted only with the use of the turnpad.
b. Military transport aircrafts which after landing on direction 34, require entry on TWY A and B will taxi on the following routes:
- RWY - TWY C - TWY F - TWY D - RWY
- RWY - TWY D - TWY F - TWY C - RWY
c. Military transport aircraft requesting entry to the runway for take-off from TWY A and B, on direction 16, will taxi on the following route:
- TWY A or B - RWY - TWY C - TWY F - TWY D – RWY
d. When stands are not available, TWY C is designated as a waiting area for incoming aircraft.
e. In order to avoid the effect of the jet blast on the circulation of vehicles and aircraft, the taxi for the departure from the stands, will be performed with the engines in ”Idle” mode.

1.4 Use of the aerodrome by aircraft exceeding the certified design characteristics of the aerodrome:
a. On request, it is allowed to operate aircraft A 330-200, after obtaining the approval of the aerodrome operator;
b. The request will be sent to dispatch@bacauairport.ro, at least 15 days before the flight;
c. Crews operating aircraft must pay attention to the free wheel height above the threshold when following the PAPI signal;
d. When landing on heading 34/16, THE exit from the runway will be on TWY D;

b. Asistența vehiculului „FOLLOW ME” poate fi solicitată de pilot prin TWR.
c. Intrarea la stand se va face cu dirijare de către dispecerul de sol;
d. Pentru sosire, elicopterele vor ateriza pe pistă și vor rula la sol/aerian conform rutelor standard de rulare. De la intrarea pe TWY F comandantul aeronavei urmează marcajele până la punctul în care are la vedere dispecerul de sol, urmând semnalele acestuia până la oprire.
e. În cazul în care pilotul unei aeronave, aflată în rulaj pe TWY F, nu are la vedere dispecerul de sol, în dreptul poziției de parcare comunicate de TWR, oprește aeronava și solicită ATC, prezența acestuia.
f. Pornirea motoarelor se va executa la semnalele dispecerului de sol.
g. Pentru aeronave cu litera de cod „A” sau „B”: ieșirea din stand fără „push-back” dacă este posibil din punct de vedere al spațiului de manevră, se efectuează numai sub dirijarea dispecerului de sol.
h. Pentru aeronave cu litera de cod „C” și “D”: ieșirea din stand se efectuează numai cu „push-back” sau cu propriile motoare dacă echipamentul „push-back” nu este operațional si exista spațiu de manevră.
i. Elicopterele, pentru plecare, rulează la sol/aerian, urmând marcajul, de la poziția de parcare până la pistă.

1.2 Zona de parcare pentru elicoptere
a. Elicopterele vor fi parcate pe platformă pe o poziție marcată/nemarcată la semnalele dispecerului de sol.
b. Repoziționarea elicopterelor pe platformă este permisă cu rulaj aerian/la sol cu respectarea semnalelor dispecerului de sol.

1.3 Rulare - limitări
a. Pentru aronavele cu litera de cod C și D, după aterizarea pe direcția 16, intoarcerea este permisă doar cu folosirea buzunarului de intoarcere.
b. Aeronavele militare de transport care după aterizarea pe direcția 34, solicită intrarea pe TWY A si B se vor deplasa pe următoarele trasee:
- RWY - TWY C - TWY F - TWY D - RWY
- RWY - TWY D - TWY F - TWY C - RWY
c. Aeronavele militare de transport care solicită intrarea la pista pentru decolare de pe TWY A si B, pe direcția 16, se vor deplasa pe următorul traseu:
- TWY A sau B - RWY - TWY C - TWY F - TWY D – RWY
d. Când standurile nu sunt disponibile, TWY C este desemnată ca zonă de așteptare pentru aeronavele care sosesc.
e. Pentru evitarea efectului suflului motoarelor asupra circulației autovehiculelor si aeronavelor, rulajul pentru plecarea de la standuri, se va efectua cu motoarele în regim „Idle”.

1.4 Utilizarea aerodromului de către aeronave care depășesc caracteristicile de proiectare certificate ale aerodromului:
a. La cerere, se permite operarea aeronavelor A 330-200, după obținerea aprobării operatorului de aerodrom;
b. Solicitarea va fi transmisă pe adresa dispatch@bacauairport.ro, cu minim 15 zile înaintea zborului;
c. Echipajele trebuie sa acorde atentie inaltimii libere la roata deasupra pragului cand urmeaza semnalul PAPI;
d. La aterizarea pe direcția 34/16, ieșirea de pe pistă se va efectua pe TWY D;

e. When landing on heading 16 or take-off on heading 34, on the 180 degree turn on the turn pad at the end of the runway, the aircraft will initiate the turn to align with the runway before the mark so that the "aircraft nose" is aligned with the mark instead of jamb.
f. Exit from the parking position and entry to the runway will be on TWY D.

e. La aterizarea pe direcția 16 sau la alinierea pentru decolare pe direcția 34, la virajul de 180 de grade în buzunarul din capătul pistei, aeronava va iniția virajul de aliniere cu pista înainte de marcaj, astfel încât “aircraft nose” să fie aliniat cu marcajul în loc de jamba.
f. Ieșirea din poziția de parcare și intrarea la pistă se va efectua pe TWY D.

2. STANDARD TAXI ROUTES / RUTELE STANDARD DE RULARE

The following taxi routes are available for taxiing on LRBC.

Următoarele rute de rulare sunt disponibile pe LRBC.

2.1 ARRIVAL INFORMATION/ INFORMAŢII LA SOSIRE

	Taxiways to be followed / Traseu de urmat				STD route	Remarks / Remarci	LVO
ARR on RWY 16	TO	APRON	On	TWY D, F	ARR1	-	Used for LVP
				TWY C, F	ARR2	-	Used for LVP
ARR on RWY 34	TO	APRON	On	TWY D, F	ARR1	-	Used for LVP
				TWY C, F	ARR2	-	Used for LVP

2.2 DEPARTURE INFORMATION/INFORMAŢII LA PLECARE

	Taxiways to be followed / Traseu de urmat				STD route	Remarks / Remarci	LVO
DEP from APRON	TO	RWY 16	On	TWY F, D	DEP1	-	Used for LVP
DEP from APRON	TO	RWY 34	On	TWY F, D	DEP1	-	Used for LVP
				TWY F, C	DEP2	-	Used for LVP

LRBC AD 2.21 NOISE ABATEMENT PROCEDURES

See AD 1.1-3

LRBC AD 2.22 FLIGHT PROCEDURES

1. LOW VISIBILITY PROCEDURES / PROCEDURI ÎN CONDIŢII DE VIZIBILITATE REDUSĂ

1.1 Description of facilities
(a) Runway 16 is equipped with ILS/DME with the characteristics specified at LRBC AD 2.19 RADIO NAVIGATION AND LANDING AIDS and 3 transmitters (threshold, middle and end)
(b) Runway 34 is equipped with ILS/DME with the characteristics specified at LRBC AD 2.19 RADIO NAVIGATION AND LANDING AIDS and 3 transmitters (threshold, middle and end)

1.2 Criteria for the initiation and termination of LVP
(a) Approach and landing
(1) The preparation phase will be triggered when in meteorological messages the RVR value is 800m or less, or, in the absence of RVR, the horizontal visibility value is 1500m or less, or the base of the ceiling/vertical visibility value is 150m (500ft) or less.

(2) The operational phase will be triggered only when in meteorological messages the RVR is 550m or less, or, in the absence of RVR, the horizontal visibility value is 800m or less, or the base of the ceiling/vertical visibility value is 60m (200ft) or less.

(3) Procedures in low visibility conditions will be terminated when in meteorological messages, the RVR value is 800m or more, or, in the absence of RVR, the horizontal visibility value is 1500 m or more, and the base of the ceiling/vertical visibility value is 150m (500ft) or more.

1.1 Descrierea facilităţilor
(a) Pista 16 este echipată cu ILS/DME cu caracteristicile precizate la LRBC AD 2.19 RADIO NAVIGATION AND LANDING AIDS şi 3 transmisiometre (prag, mijloc și end)
(b) Pista 34 este echipată cu ILS/DME cu caracteristicile precizate la LRBC AD 2.19 RADIO NAVIGATION AND LANDING AIDS şi 3 transmisiometre (prag, mijloc și end)

1. 2 Criterii pentru iniţierea şi terminarea LVP
(a) Apropierea şi aterizarea
(1) Faza de pregătire va fi declanșată atunci când în mesajele meteorologice RVR are valoarea de 800m sau mai puțin, sau dacă RVR este indisponibil, vizibilitatea orizontală are valoarea de 1500m sau mai puțin, sau plafonul norilor/vizibilitatea verticală are valoarea de 150m (500ft) sau mai puțin.
(2) Faza operațională a LVP se declanșează doar atunci când în mesajele meteorologice RVR are valoarea de 550 m sau mai puțin, sau dacă RVR este indisponibil, vizibilitatea orizontală are valoarea de 800 m sau mai puțin, sau plafonul norilor/vizibilitatea verticală are valoarea de 60m (200ft) sau mai puțin.
(3) Procedurile în condiţii de vizibilitate redusă vor fi încheiate atunci când în mesajele meteorologice, RVR are valoarea de 800m sau mai mult, sau, dacă RVR este indisponibil, vizibilitatea orizontală are valoarea de 1500m sau mai mult, și plafonul norilor/vizibilitatea verticală are valoarea de 150m (500ft) sau mai mult.

LRCL AD 2.1 AERODROME LOCATION INDICATOR AND NAME
LRCL - CLUJ NAPOCA / Avram Iancu

LRCL AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	*ARP co-ordinates and site at AD*	464721N 0234132E on RWY centre line, 1457M from THR07
2	*Direction and distance from city*	9 km East from Cluj Napoca.
3	*Elevation/Reference temperature/mean low temperature*	1039 FT / 29.5°C / -13.8°C
4	*Geoid undulation at AD ELEV PSN*	133 FT
5	*MAG VAR/ Annual rate of change*	5°E (2015) / 7.0'E
6	*AD Operator, address, telephone, telefax, e-mail, AFS, website*	Aeroportul Internaţional Avram Iancu Cluj Str. Traian Vuia, nr. 149 , Cluj-Napoca, cod 400397 Tel: +40-(0)264-307500; ~~+40-(0)264-416702; +40-(0)264-416708~~ ~~Fax: +40-(0)264-416712; +40-(0)264-307505~~ Telex: 031288 AEROPCL R AFS: LRCLRAYD e-mail: office@airportcluj.ro SITA: CLJAPXH WEB: www.airportcluj.ro
7	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
8	*Remarks*	Helicopter flights permitted

LRCL AD 2.3 OPERATIONAL HOURS

1	*AD Operator*	H24
2	*Customs and immigration*	H24
3	*Health and sanitation*	H24
4	*AIS Briefing Office*	H24
5	*ATS Reporting Office (ARO)*	H24
6	*MET Briefing Office*	H24
7	*ATS*	H24
8	*Fuelling*	H24
9	*Handling*	H24
10	*Security*	H24
11	*De-icing*	H24
12	*Remarks*	NIL

LRCL AD 2.4 HANDLING SERVICES AND FACILITIES

1	*Cargo-handling facilities*	10 electric tractors, 2 diesel tractors, 41 dollies, 12 pallet dollies, ~~10 GPU 115V/400Hz and 28.5V, 2 GPU 28.5V, 1 air start unit, 3 self propelled lavatory service vehicle, 3 self propelled potable water service vehicles,~~ 7 self-propelled conveyor belts, 1 high loader, 3 forklifts, ~~7 self-propelled passenger stairs, 11 towed passenger stairs, 10 passenger buses, 7 passenger/crew minibuses, 2 PRM transportation vehicle, 1 ambulift vehicle, 3 aircraft towing/push-back tractors,~~ railway station in vicinity.
2	Fuel/Oil types	Kerosene JET A1/NIL
3	Fuelling facilities/capacity	5 trucks: 2 of 18000 L, 2 of 21000 L and 1 of 30000L Kerosene storage: 796m^3.
4	*De-icing facilities*	5 diesel de/anti-icing units, with liquid type II. 2 electric de/anti-icing units, with liquid type II.
5	*Hangar space for visiting aircraft*	NIL
6	*Repair facilities for visiting aircraft*	NIL
7	*Remarks*	NIL

LRCL AD 2.5 PASSENGER FACILITIES

1	*Hotels*	Hotels in town.
2	*Restaurants*	Restaurant, buffets and snack bar in airport terminals.
3	*Transportation*	Buses, taxis, car hire from airport.
4	*Medical facilities*	First aid on the AD, Ambulance, hospitals in town.
5	*Bank and Post Office*	In departure terminal and in town. Exchange Offices in both terminals. ATM in arrival and departure terminals.
6	*Tourist Office*	Tourist Office in terminal.
7	*Remarks*	Rent-a-car Office: Tel: +40-(0)743-645046; +40-(0)744-795466; +40-(0)745-933498; +40-(0)742-879070; +40-(0)743-022591; +40-(0)749-151028; +40-(0)749-169401; +40-(0)752-012012; +40-(0)722-522128; +40-(0)725-605171; +40-(0)732-350515.

LRCL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	*AD category for fire fighting*	CAT 7
2	*Rescue equipment*	2 vehicles with extrication equipment.
3	*Capability for removal of disabled aircraft*	Rapid Recovery MULTISLING NARROW BODY LIFTING KIT COD C RESQTEC Aircraft Recovery TRAILER SYSTEM QI30T/QI20T COMBI RESQTEC e-mail: oper@airportcluj.ro.
4	*Remarks*	NIL

LRCL AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	*Types of clearing equipment*	Mechanical: 7 trucks with plough, brush and sweep blower, 1 small equipment with plough, brush and snowblower, 1 snow blower. Chemical: 1 truck with solid/liquid de-icing material spreader, 1 truck with liquid de-icing material spreader, 1 tractor with solid de-icing material spreader.
2	*Clearance priorities*	1. RWY 07/25, emergency access road, associated TWYs and Aprons.
3	*Use of material for movement area surface treatment*	Fluids used for RWY de/anti-icing: KFOR (potassium formate). Solid materials used for RWY de/anti-icing: NAFO (sodium formate).
4	*Specially prepared winter runways*	NIL
5	*Remarks*	Information on RWY surface condition in Global Reporting Format is published by SNOWTAM. See also the snow plan in section AD 1.2. Unit of the airport operator providing information on the progress of the snow removal and the conditions of the movement area: Ground Operations Service - Tel.: +40 751 058 506;

LRCL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	*Apron designation, surface and strength*	Surface:	APRON 1: Concrete APRON 2: Concrete
		Strength:	APRON 1: 44/R/B/W/T Stands: 1, 2, 7 27/R/B/W/T Stands: 3, 8, 9 123/R/B/W/T Stands: 4, 5, 6 102/R/B/W/T Stands: 23 APRON 2: 116/R/B/W/T Stands: 10, 11 94/R/B/W/T Stands: 14, 16, 18 117/R/B/W/T Stands: 13, 15, 17 39/R/A/W/T Stand: 12 102/R/B/W/T Stand: 19, 20,21,22
2	*Taxiway designation, width, surface and strength*	Width:	TWY A, C, D, K, ~~L~~: 18 M TWY B, E, H, I: 23 M TWY F, G: 25 M
		Surface:	TWY A, B, C, D, E, F, G, H, I, K, ~~L~~: Concrete
		Strength:	TWY A: 27/R/B/W/T TWY B: 105/R/B/W/T TWY C: 94/R/B/W/T TWY D: 31/R/B/W/T TWY E: 115/R/B/W/T TWY F, H: 72/R/B/W/T TWY G: 114/R/B/W/T TWY I: 102/R/B/W/T TWY K: 123/R/B/W/T ~~TWY L: 27/R/B/W/T~~
3	*ACL location and elevation*	At Aprons 1026 FT	
4	*VOR checkpoints*	NIL	
5	*INS checkpoints*	APRON 1	INS 1: 450531.35N 0260656.06E INS 2: 450532.52N 0260656.41E INS 3: 450533.70N 0260656.76E INS 4: 464700.36N 0234115.17E INS 5: 464700.48N 0234117.52E INS 6: 464700.60N 0234119.87E INS 7: 450531.90N 0260651.99E INS 8: 450533.56N 0260652.48E INS 9: 450535.97N 0260653.36E INS 23: 464700.72N 0234122.22E
		APRON 2	INS 10: 464713.65N 0234136.81E INS 11: 464712.24N 0234137.49E INS 12: 464712.23N 0234153.54E INS 13: 464708.61N 0234139.20E INS 14: 464707.14N 0234132.65E INS 15: 464707.07N 0234139.94E INS 16: 464705.60N 0234133.39E INS 17: 464705.54N 0234140.68E INS 18: 464704.06N 0234134.12E INS 19: 464708.71N 0234142.85E INS 20: 464707.17N 0234143.59E INS 21: 464705.64N 0234144.34E INS 22: 464704.10N 0234145.08E
6	*Remarks*	In emergency situation, the main area assigned as isolated aircraft position is Stand 12. In case of unavailability, the area assigned as isolated aircraft position will be established on site.	

LRCL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	*Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system at aircraft stands*	Aircraft guidance to parking stand is provided by marshaller. Guidance yellow lights (LIH) to stands number: 4, 5, 6, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
2	*RWY and TWY markings and LGT*	RWY: - markings: Color white: designation, THR, TDZ, centre line, side stripes, aiming point, displaced THR 07; Color yellow: turnpad markings at THR 25 and THR07. - lights: centre line, edge, end, THR + WBAR, TDZ for RWY 25, turnpad at THR 25. TWY A: - markings: Color yellow: centre line, edges, intermediate holding position at the following intersection: TWY A/D, designation markings at TWY A/K intersection; - lights: centre line lights, edge lights, intermediate holding position lights (IHPL) at the following intersection: TWY A/D. TWY B: - markings: Color yellow: centre line, ~~edges~~, intermediate holding position at the following intersection: TWY B/E, ~~designation markings at TWY's intersections~~; - lights: centre line lights, ~~edge lights~~, intermediate holding position lights (IHPL) at the following intersections: TWY B/E. TWY C: - markings: Color yellow: centre line, edges, intermediate holding position at the following intersection: TWY C/D/E/G, ~~designation markings at TWY's intersections~~; - lights: centre line lights, intermediate holding position lights (IHPL) at the following intersections: TWY C/D/E/G. TWY D: - markings: Color yellow: centre line, edges, intermediate holding position at all TWY intersections; - lights: centre line lights, edge lights, intermediate holding position lights (IHPL) at all TWY intersections. TWY E: - markings: Color yellow: centre line, edges, intermediate holding position at all TWY intersections, designation markings at TWY C/D/E/G intersection; - lights: centre line lights, edge lights, intermediate holding position lights (IHPL) at all TWY intersections. TWY F: - markings: Color yellow: centre line, edges; - lights: centre line lights, edge lights. TWY G: - markings: Color yellow: centre line, edges, runway holding position, intermediate holding positions at all TWY intersections, enhanced centre line, runway designator; - lights: centre line lights, edge lights, intermediate holding positions lights (IHPL) at all TWY intersections. TWY H: - markings: Color yellow: centre line, edges, runway holding position, intermediate holding positions at all TWY intersections, enhanced centre line, runway designator; - lights: centre line lights, edge lights, intermediate holding positions lights (IHPL) at all TWY intersections. TWY I: - markings: Color yellow: centre line, edges, intermediate holding position, designation markings at all TWY intersections; - lights: centre line lights, edge lights, intermediate holding positions lights (IHPL) at all TWY intersections. TWY K: - markings: Color yellow: centre line; - lights: centre line lights. ~~TWY L:~~ ~~- markings: Color yellow: centre line.~~ ~~- lights: NIL.~~
3	*Stop bars and runway guard lights*	Red stop bar on TWY H and TWY G. Runway guard lights on TWY H and TWY G. STOP BAR lights shall remain continuously ON in all weather conditions, except when Cluj TWR has given approval for aircraft/vehicles to enter the runway.
4	*Other RWY protection measure*	NIL
5	*Remarks*	Illuminated wind direction indicators are located adjacent to TDZ of RWY 25, THR 07 and West edge of TWY A. THR 07 displaced 240M.

LRCL AD 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/ Designation	*OBST type*	*OBST position*	*ELEV/HGT*	*Markings/ Type, colour*	*Remarks*
a	b	c	d	e	f
LRCL_2	BUILDING	464505.8N 0233424.9E	1616/222 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL_4	ANTENNA	464634.1N 0233534.5E	1326/121 FT	MARKED	
LRCL_6	ANTENNA	464631.0N 0233444.7E	1509/158 FT	MARKED	
LRCL_7	ANTENNA	464632.0N 0233451.2E	1435/123 FT	MARKED	
LRCL_8	POLE	464450.0N 0233319.0E	1426/113 FT	MARKED	
LRCL_9	POLE	464503.0N 0233349.0E	1394/89 FT	MARKED	
LRCL_11	ANTENNA	464610.0N 0233230.0E	1614/105 FT	MARKED/LGTD R	
LRCL_15	BUILDING	464657.6N 0234010.3E	1065/22 FT	NIL	
LRCL_17	BUILDING	464657.4N 0234008.5E	1063/19 FT	NIL	
LRCL_18	BUILDING	464657.5N 0234008.0E	1068/24 FT	NIL	
LRCL_19	BUILDING	464657.9N 0234007.5E	1060/18 FT	NIL	
LRCL_20	BUILDING	464657.5N 0234007.3E	1062/20 FT	NIL	
LRCL_27	BUILDING	464656.3N 0234005.9E	1065/26 FT	NIL	
LRCL_28	BUILDING	464656.4N 0234005.2E	1057/19 FT	NIL	
LRCL_29	BUILDING	464656.5N 0234004.7E	1051/14 FT	NIL	
LRCL_39	BUILDING	464651.7N 0233953.0E	1060/18 FT	NIL	
LRCL_40	BUILDING	464652.3N 0233952.4E	1064/23 FT	NIL	
LRCL_41	BUILDING	464652.6N 0233951.8E	1065/23 FT	NIL	
LRCL_44	BUILDING	464653.2N 0233953.1E	1061/15 FT	NIL	
LRCL_45	BUILDING	464652.9N 0233953.9E	1064/18 FT	NIL	
LRCL_46	BUILDING	464652.5N 0233954.4E	1060/13 FT	NIL	
LRCL_48	POLE	464657.1N 0234007.5E	1062/21 FT	NIL	
LRCL_49	POLE	464657.1N 0234009.2E	1062/18 FT	NIL	
LRCL_55	POLE	464656.5N 0234006.4E	1066/27 FT	NIL	
LRCL_59	POLE	464652.3N 0233954.1E	1071/29 FT	NIL	
LRCL_60	POLE	464652.6N 0233952.5E	1072/30 FT	NIL	
LRCL_61	POLE	464653.0N 0233952.9E	1076/34 FT	NIL	
LRCL_62	POLE	464653.1N 0233951.6E	1073/31 FT	NIL	
LRCL_64	POLE	464701.8N 0233937.3E	1086/36 FT	NIL	
LRCL_65	POLE	464701.9N 0233938.2E	1086/36 FT	NIL	
LRCL_66	POLE	464702.4N 0233937.4E	1086/36 FT	NIL	
LRCL_67	POLE	464653.5N 0233952.7E	1065/23 FT	NIL	
LRCL_68	POLE	464651.4N 0233946.3E	1087/46 FT	NIL	
LRCL_70	ANTENNA	464514.5N 0233505.8E	1579/138 FT	MARKED/LGTD R	
LRCL_71	BUILDING	464702.9N 0233937.0E	1077/36 FT	NIL	
LRCL_76	ANTENNA	464627.3N 0233453.4E	1433/121 FT	NIL	
LRCL_77	TREE	464657.3N 0234007.1E	1077/38 FT	NIL	
LRCL_78	TREE	464658.0N 0234008.4E	1062/22 FT	NIL	
LRCL_80	TREE	464657.9N 0234010.2E	1063/19 FT	NIL	
LRCL_81	TREE	464658.1N 0234011.3E	1072/30 FT	NIL	
LRCL_82	TREE	464658.1N 0234010.7E	1071/29 FT	NIL	
LRCL_85	BUILDING	464612.4N 0233522.7E	1406/281 FT	NIL	
LRCL_86	BUILDING	464619.1N 0233547.1E	1318/205 FT	NIL	
LRCL_87	TREE	464656.0N 0233948.3E	1073/32 FT	NIL	
LRCL_88	TREE	464655.9N 0233948.4E	1068/27 FT	NIL	
LRCL_89	TREE	464654.3N 0233951.0E	1086/46 FT	NIL	
LRCL_90	TREE	464654.1N 0233951.3E	1091/49 FT	NIL	
LRCL_91	BUILDING	464659.7N 0233946.6E	1063/24 FT	NIL	
LRCL_92	BUILDING	464701.0N 0233945.1E	1066/26 FT	NIL	
LRCL_93	ANTENNA	464610.6N 0233705.7E	1270/120 FT	MARKED	
LRCL_95	ANTENNA	464547.2N 0233458.7E	1334/88 FT	MARKED	
LRCL_97	ANTENNA	464506.7N 0233343.2E	1470/149 FT	MARKED	
LRCL_99	ANTENNA	464520.2N 0233436.6E	1576/113 FT	NIL	
LRCL_100	ANTENNA	464613.5N 0233726.1E	1268/120 FT	NIL	
LRCL_101	ANTENNA	464607.7N 0233656.4E	1283/110 FT	MARKED	
LRCL_105	POLE	464522.0N 0233405.0E	1383/126 FT	NIL	
LRCL_108	POLE	464507.0N 0233345.0E	1506/135 FT	MARKED	
LRCL_113	BUILDING	464653.1N 0233950.4E	1071/29 FT	NIL	
LRCL_114	BUILDING	464654.0N 0233948.9E	1071/29 FT	NIL	
LRCL_115	BUILDING	464653.6N 0233946.6E	1070/28 FT	NIL	
LRCL_117	BUILDING	464652.0N 0233941.7E	1081/38 FT	NIL	
LRCL_118	BUILDING	464652.2N 0233939.5E	1073/29 FT	NIL	
LRCL_119	BUILDING	464652.2N 0233938.6E	1072/28 FT	NIL	

a	b	c	d	e	f
LRCL_121	BUILDING	464651.3N 0233938.1E	1072/28 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL_122	BUILDING	464650.9N 0233928.9E	1081/37 FT	NIL	
LRCL_123	BUILDING	464651.1N 0233926.2E	1084/40 FT	NIL	
LRCL_126	BUILDING	464653.7N 0233945.3E	1070/28 FT	NIL	
LRCL_128	BUILDING	464656.3N 0233945.7E	1079/36 FT	NIL	
LRCL_129	BUILDING	464657.4N 0233943.6E	1069/26 FT	NIL	
LRCL_130	BUILDING	464657.7N 0233943.1E	1069/26 FT	NIL	
LRCL_131	BUILDING	464659.1N 0233940.9E	1087/42 FT	NIL	
LRCL_132	BUILDING	464658.7N 0233937.5E	1074/30 FT	NIL	
LRCL_133	BUILDING	464657.9N 0233934.3E	1085/41 FT	NIL	
LRCL_135	BUILDING	464659.6N 0233943.1E	1067/22 FT	NIL	
LRCL_136	BUILDING	464659.0N 0233943.5E	1065/22 FT	NIL	
LRCL_137	BUILDING	464658.6N 0233945.6E	1069/26 FT	NIL	
LRCL_138	BUILDING	464657.8N 0233945.8E	1067/24 FT	NIL	
LRCL_139	BUILDING	464657.5N 0233946.1E	1066/23 FT	NIL	
LRCL_140	BUILDING	464656.2N 0233948.3E	1064/22 FT	NIL	
LRCL_143	BUILDING	464654.7N 0233951.8E	1068/26 FT	NIL	
LRCL_144	BUILDING	464654.1N 0233951.8E	1063/21 FT	NIL	
LRCL_146	BUILDING	464655.6N 0233949.2E	1065/19 FT	NIL	
LRCL_147	BUILDING	464656.2N 0233939.5E	1076/32 FT	NIL	
LRCL_148	BUILDING	464656.8N 0233944.4E	1076/33 FT	NIL	
LRCL_152	BUILDING	464653.0N 0233940.7E	1072/28 FT	NIL	
LRCL_157	BUILDING	464654.7N 0233944.9E	1083/40 FT	NIL	
LRCL_161	BUILDING	464655.6N 0233937.4E	1071/27 FT	NIL	
LRCL_162	BUILDING	464620.6N 0233747.8E	1261/132 FT	NIL	
LRCL_163	BUILDING	464525.1N 0233240.1E	1525/280 FT	LGTD R	
LRCL_164	BUILDING	464654.7N 0233942.9E	1075/31 FT	NIL	
LRCL_165	POLE	464653.5N 0233952.1E	1073/31 FT	NIL	
LRCL_166	POLE	464654.1N 0233951.1E	1072/30 FT	NIL	
LRCL_167	POLE	464653.8N 0233950.5E	1075/33 FT	NIL	
LRCL_168	POLE	464654.4N 0233949.5E	1072/30 FT	NIL	
LRCL_169	POLE	464654.8N 0233949.9E	1072/30 FT	NIL	
LRCL_170	POLE	464655.4N 0233948.9E	1072/30 FT	NIL	
LRCL_171	POLE	464655.7N 0233948.6E	1067/26 FT	NIL	
LRCL_172	POLE	464656.6N 0233950.4E	1067/27 FT	NIL	
LRCL_173	POLE	464656.1N 0233947.8E	1073/30 FT	NIL	
LRCL_174	POLE	464655.7N 0233947.2E	1072/30 FT	NIL	
LRCL_175	POLE	464656.8N 0233946.6E	1078/35 FT	NIL	
LRCL_176	POLE	464656.4N 0233946.2E	1077/35 FT	NIL	
LRCL_177	POLE	464657.1N 0233944.9E	1078/35 FT	NIL	
LRCL_178	POLE	464657.6N 0233945.3E	1078/35 FT	NIL	
LRCL_179	POLE	464657.8N 0233943.8E	1078/34 FT	NIL	
LRCL_180	POLE	464658.2N 0233944.2E	1078/35 FT	NIL	
LRCL_181	POLE	464658.8N 0233943.3E	1079/35 FT	NIL	
LRCL_182	POLE	464658.3N 0233942.7E	1079/35 FT	NIL	
LRCL_183	POLE	464659.1N 0233941.7E	1080/36 FT	NIL	
LRCL_184	POLE	464659.5N 0233942.3E	1080/36 FT	NIL	
LRCL_186	POLE	464659.5N 0233941.1E	1080/35 FT	NIL	
LRCL_187	POLE	464659.2N 0233939.3E	1073/28 FT	NIL	
LRCL_188	POLE	464658.9N 0233938.2E	1073/28 FT	NIL	
LRCL_190	POLE	464659.9N 0233940.3E	1083/36 FT	NIL	
LRCL_191	POLE	464700.0N 0233941.2E	1081/35 FT	NIL	
LRCL_192	POLE	464700.6N 0233939.3E	1085/36 FT	NIL	
LRCL_193	POLE	464700.9N 0233939.8E	1083/35 FT	NIL	
LRCL_194	POLE	464701.3N 0233939.1E	1085/35 FT	NIL	
LRCL_195	POLE	464655.0N 0233946.4E	1069/27 FT	NIL	
LRCL_196	POLE	464654.0N 0233946.0E	1070/27 FT	NIL	
LRCL_197	POLE	464653.0N 0233944.4E	1070/27 FT	NIL	
LRCL_198	POLE	464652.8N 0233945.0E	1070/27 FT	NIL	
LRCL_199	POLE	464652.9N 0233942.6E	1069/26 FT	NIL	
LRCL_200	POLE	464652.9N 0233941.1E	1070/26 FT	NIL	
LRCL_201	POLE	464652.8N 0233939.4E	1071/27 FT	NIL	

a	b	c	d	e	f
LRCL_204	POLE	464654.3N 0233950.9E	1069/27 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL_205	POLE	464655.1N 0233948.4E	1073/30 FT	NIL	
LRCL_206	ANTENNA	464653.5N 0233942.8E	1086/43 FT	NIL	
LRCL_207	SIGN	464655.0N 0233948.1E	1069/27 FT	NIL	
LRCL_211	TREE	464658.9N 0233938.3E	1087/44 FT	NIL	
LRCL_212	TREE	464656.7N 0233952.8E	1060/22 FT	NIL	
LRCL_213	TREE	464656.4N 0233953.1E	1066/28 FT	NIL	
LRCL_221	BUILDING	464604.8N 0233554.8E	1280/153 FT	MARKED	
LRCL_224	ANTENNA	464758.5N 0234653.3E	1558/75 FT	MARKED/LGTD R	
LRCL_225	ANTENNA	464800.6N 0234714.9E	1572/20 FT	MARKED/LGTD R	
LRCL_253	BUILDING	464737.3N 0234317.9E	1102/85 FT	NIL	
LRCL_295	POLE	464657.6N 0234113.8E	1086/61 FT	LGTD R	
LRCL_296	BUILDING	464657.4N 0234115.3E	1080/50 FT	LGTD R	
LRCL_299	POLE	464657.0N 0234109.1E	1087/61 FT	LGTD R	
LRCL_300	BUILDING	464656.3N 0234112.7E	1108/80 FT	LGTD R	
LRCL_332	POLE	464704.1N 0234133.3E	1097/69 FT	LGTD R	
LRCL_335	STACK	464657.0N 0234127.5E	1081/54 FT	MARKED	
LRCL_336	STACK	464657.2N 0234127.5E	1081/54 FT	MARKED	
LRCL_337	STACK	464657.2N 0234127.5E	1081/54 FT	MARKED	
LRCL_338	STACK	464657.3N 0234127.4E	1081/54 FT	MARKED	
LRCL_340	POLE	464653.6N 0234110.4E	1094/66 FT	NIL	
LRCL_433	ANTENNA	464644.2N 0234051.8E	1141/89 FT	MARKED	
LRCL_434	ANTENNA	464656.2N 0234113.0E	1109/82 FT	MARKED	
LRCL_435	STACK	464648.7N 0234042.3E	1137/98 FT	MARKED/LGTD R	
LRCL_436	ANTENNA	464640.4N 0233946.6E	1172/122 FT	MARKED/LGTD R	
LRCL_437	BUILDING	464648.1N 0234039.9E	1116/65 FT	NIL	
LRCL_443	ANTENNA	464651.9N 0234114.1E	1114/82 FT	NIL	
LRCL_444	ANTENNA	464651.3N 0234109.4E	1105/75 FT	NIL	
LRCL_445	BUILDING	464652.1N 0234119.7E	1078/49 FT	NIL	
LRCL_451	STACK	464650.2N 0234052.3E	1095/65 FT	MARKED/LGTD R	
LRCL_452	STACK	464651.8N 0234153.3E	1137/112 FT	MARKED/LGTD R	
LRCL_454	POLE	464649.3N 0234040.8E	1096/62 FT	MARKED	
LRCL_455	POLE	464649.1N 0234035.0E	1101/64 FT	MARKED	
LRCL_456	POLE	464649.0N 0234029.4E	1100/57 FT	MARKED	
LRCL_457	POLE	464649.0N 0234024.6E	1099/59 FT	MARKED	
LRCL_458	POLE	464649.3N 0234020.8E	1097/55 FT	MARKED	
LRCL_461	SIGN	464653.5N 0234111.7E	1096/67 FT	NIL	
LRCL_465	TREE	464656.8N 0234145.1E	1077/50 FT	NIL	
LRCL_466	TREE	464656.8N 0234144.3E	1078/50 FT	NIL	
LRCL_467	TREE	464656.0N 0234142.8E	1077/50 FT	NIL	
LRCL_472	ANTENNA	464656.4N 0234112.9E	1108/79 FT	NIL	
LRCL_473	ANTENNA	464656.1N 0234110.7E	1099/71 FT	NIL	
LRCL_477	POLE	464600.1N 0233744.4E	1270/136 FT	NIL	
LRCL_478	SIGN	464650.3N 0234019.7E	1095/54 FT	NIL	
LRCL_487	POLE	464740.3N 0233804.6E	1201/146 FT	NIL	
LRCL_488	ANTENNA	464740.8N 0233907.8E	1141/94 FT	NIL	
LRCL_490	WATER_TOWER	464711.5N 0233801.1E	1217/154 FT	MARKED	
LRCL_491	WATER_TOWER	464728.8N 0233753.1E	1200/142 FT	MARKED	
LRCL_492	WATER_TOWER	464735.3N 0234052.8E	1095/67 FT	MARKED	
LRCL_494	ANTENNA	464735.7N 0234050.6E	1112/84 FT	NIL	
LRCL_496	POLE	464843.1N 0234356.0E	1167/168 FT	NIL	
LRCL_497	POLE	464835.6N 0234342.0E	1187/175 FT	NIL	
LRCL_498	POLE	464833.6N 0234330.3E	1173/154 FT	NIL	
LRCL_499	POLE	464831.6N 0234319.1E	1162/154 FT	NIL	
LRCL_500	POLE	464828.9N 0234303.3E	1175/163 FT	NIL	
LRCL_501	POLE	464826.8N 0234251.6E	1209/187 FT	NIL	
LRCL_502	POLE	464825.9N 0234233.9E	1190/169 FT	NIL	
LRCL_503	POLE	464824.9N 0234215.9E	1207/180 FT	NIL	
LRCL_504	POLE	464820.3N 0234207.0E	1207/168 FT	NIL	
LRCL_505	POLE	464814.9N 0234156.4E	1291/188 FT	NIL	
LRCL_506	POLE	464755.3N 0233905.6E	1224/151 FT	NIL	
LRCL_507	POLE	464754.2N 0233854.4E	1248/177 FT	NIL	
LRCL_508	POLE	464746.3N 0233840.5E	1227/167 FT	NIL	
LRCL_509	POLE	464746.1N 0233834.5E	1225/167 FT	NIL	
LRCL_510	POLE	464745.5N 0233824.4E	1225/167 FT	NIL	
LRCL_511	POLE	464757.1N 0234028.0E	1225/161 FT	NIL	
LRCL_512	POLE	464758.4N 0234038.2E	1220/152 FT	NIL	
LRCL_513	POLE	464756.5N 0233917.4E	1216/141 FT	NIL	
LRCL_514	POLE	464759.7N 0234048.9E	1231/167 FT	NIL	
LRCL_515	POLE	464759.2N 0234105.0E	1220/163 FT	NIL	
LRCL_516	POLE	464758.9N 0234115.4E	1207/161 FT	NIL	
LRCL_517	POLE	464801.6N 0234130.5E	1214/177 FT	NIL	
LRCL_518	POLE	464755.8N 0234018.3E	1211/160 FT	NIL	
LRCL_519	POLE	464754.2N 0234005.5E	1230/142 FT	NIL	

a	b	c	d	e	f
LRCL_520	POLE	464752.5N 0233951.4E	1224/142 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL_521	POLE	464750.9N 0233938.9E	1240/161 FT	NIL	
LRCL_522	POLE	464753.7N 0233927.8E	1248/178 FT	NIL	
LRCL_523	POLE	464808.4N 0234143.7E	1342/161 FT	NIL	
LRCL_526	ANTENNA	464717.9N 0233733.4E	1182/115 FT	NIL	
LRCL_529	ANTENNA	464744.2N 0233812.1E	1177/115 FT	NIL	
LRCL_531	BUILDING	464652.7N 0233745.4E	1193/117 FT	NIL	
LRCL_533	STACK	464736.6N 0233836.7E	1155/105 FT	MARKED/LGTD R	
LRCL_534	STACK	464736.6N 0233836.2E	1154/104 FT	MARKED/LGTD R	
LRCL_535	STACK	464734.9N 0233812.8E	1217/162 FT	MARKED/LGTD R	
LRCL_536	ANTENNA	464711.9N 0233932.4E	1148/105 FT	MARKED/LGTD R	
LRCL_537	ANTENNA	464717.6N 0233913.1E	1138/91 FT	MARKED/LGTD R	
LRCL_538	ANTENNA	464710.7N 0233926.7E	1153/111 FT	MARKED/LGTD R	
LRCL_540	ANTENNA	464652.4N 0233734.5E	1201/124 FT	MARKED/LGTD R	
LRCL_543	ANTENNA	464741.7N 0233908.7E	1109/80 FT	MARKED/LGTD R	
LRCL_544	ANTENNA	464735.9N 0234051.6E	1119/92 FT	NIL	
LRCL_545	ANTENNA	464736.5N 0234052.8E	1118/91 FT	NIL	
LRCL_546	ANTENNA	464737.8N 0234056.6E	1123/94 FT	NIL	
LRCL_547	ANTENNA	464737.0N 0234057.1E	1110/82 FT	NIL	
LRCL_548	BUILDING	464726.9N 0233825.9E	1173/117 FT	LGTD R	
LRCL_549	POLE	464743.8N 0233948.8E	1165/117 FT	NIL	
LRCL_557	ANTENNA	464847.9N 0233727.1E	1966/198 FT	MARKED/LGTD R	
LRCL_561	ANTENNA	464649.2N 0233703.4E	1252/171 FT	MARKED	
LRCL_563	ANTENNA	464809.3N 0233553.7E	1415/105 FT	MARKED/LGTD R	
LRCL_569	ANTENNA	464518.2N 0233702.2E	1369/78 FT	NIL	
LRCL_658	BUILDING	464717.4N 0234134.8E	1038/17 FT	NIL	
LRCL_660	ANTENNA	464717.6N 0234134.9E	1041/20 FT	NIL	
LRCL_661	ANTENNA	464717.8N 0234134.9E	1071/49 FT	NIL	
LRCL_662	ANTENNA	464718.8N 0234138.7E	1042/21 FT	NIL	
LRCL_666	POLE	464706.5N 0234132.1E	1096/69 FT	LGTD R	
LRCL_676	BUILDING	464706.6N 0233927.3E	1179/137 FT	NIL	
LRCL_684	ANTENNA	464727.2N 0234137.9E	1058/36 FT	NIL	
LRCL_688	BUILDING	464705.7N 0233923.5E	1134/78 FT	NIL	
LRCL_689	ANTENNA	464311.2N 0233650.9E	2494/99 FT	NIL	
LRCL_690	ANTENNA	464249.4N 0233622.7E	2597/152 FT	NIL	
LRCL_691	ANTENNA	464520.0N 0233544.6E	1570/151 FT	NIL	
LRCL_695	ANTENNA	464252.1N 0233832.4E	2669/215 FT	MARKED/LGTD R	
LRCL_696	ANTENNA	464246.4N 0233822.5E	2596/131 FT	MARKED/LGTD R	
LRCL_697	ANTENNA	464247.2N 0233824.7E	2698/233 FT	MARKED/LGTD R	
LRCL_698	NAVAID	464306.6N 0233602.6E	2503/52 FT	MARKED/LGTD R	
LRCL_724	ANTENNA	464308.0N 0233645.0E	2504/106 FT	NIL	
LRCL_725	ANTENNA	464248.5N 0233827.6E	2675/217 FT	NIL	
LRCL_726	ANTENNA	464638.0N 0233500.0E	1398/118 FT	NIL	
LRCL_759	BUILDING	464443.2N 0233526.9E	1728/118 FT	NIL	
LRCL_760	BUILDING	464444.4N 0233527.4E	1729/119 FT	NIL	
LRCL_1090	ANTENNA	464316.8N 0233720.0E	2537/96 FT	NIL	
LRCL_1091	SIGN	464310.4N 0233642.8E	2456/67 FT	NIL	
LRCL_1108	ANTENNA	464251.2N 0233832.2E	3236/775 FT	MARKED/LGTD R	
LRCL_1109	NAVAID	464701.0N 0234017.0E	1061/25 FT	NIL	
LRCL_1117	NAVAID	464718.3N 0234133.9E	1046/25 FT	MARKED/LGTD R	
LRCL_1127	POLE	464709.0N 0234140.4E	1095/69 FT	LGTD R	
LRCL_1128	POLE	464706.5N 0234141.4E	1095/68 FT	LGTD R	
LRCL_1129	POLE	464712.8N 0234139.9E	1091/67 FT	LGTD R	
LRCL_1130	POLE	464703.3N 0234136.9E	1095/67 FT	LGTD R	
LRCL_1132	POLE	464542.7N 0233620.4E	1265/56 FT	NIL	
LRCL_1133	BUILDING	464502.5N 0233427.6E	1573/136 FT	NIL	
LRCL_1137	BUILDING	464638.4N 0233722.7E	1194/83 FT	NIL	
LRCL_1142	POLE	464636.8N 0233802.5E	1198/108 FT	NIL	
LRCL_1145	POLE	464749.3N 0233943.4E	1109/54 FT	NIL	
LRCL_1146	POLE	464727.7N 0233712.5E	1230/160 FT	NIL	
LRCL_1152	POLE	464520.7N 0233634.6E	1385/53 FT	NIL	
LRCL_1153	POLE	464710.6N 0233837.9E	1125/62 FT	NIL	
LRCL_1160	POLE	464509.8N 0233300.6E	1448/135 FT	NIL	
LRCL_1175	POLE	464651.7N 0234153.1E	1152/125 FT	NIL	
LRCL_1177	POLE	464507.1N 0233436.4E	1625/115 FT	NIL	
LRCL_1179	BUILDING	464658.0N 0233940.4E	1075/31 FT	NIL	
LRCL_1181	BUILDING	464648.4N 0233942.5E	1086/41 FT	NIL	
LRCL_1183	POLE	464606.1N 0233607.4E	1304/158 FT	NIL	
LRCL_1191	ANTENNA	464434.5N 0233348.2E	1675/111 FT	NIL	
LRCL_1195	POLE	464509.7N 0233619.6E	1563/126 FT	NIL	
LRCL_1197	ANTENNA	464440.0N 0233336.1E	1702/111 FT	NIL	
LRCL_1198	POLE	464639.6N 0233647.7E	1240/145 FT	NIL	
LRCL_1200	ANTENNA	465041.1N 0234132.5E	1372/55 FT	NIL	

a	b	c	d	e	f
LRCL_1231	BUILDING	464632.4N 0233343.8E	1373/144 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL_1232	BUILDING	464634.0N 0233350.6E	1399/51 FT	NIL	
LRCL_1233	ANTENNA	464634.2N 0233356.4E	1456/107 FT	NIL	
LRCL_1236	ANTENNA	464638.9N 0233420.7E	1393/51 FT	NIL	
LRCL_1237	ANTENNA	464629.4N 0233432.6E	1479/141 FT	MARKED/LGTD R	
LRCL_1238	ANTENNA	464627.3N 0233454.5E	1483/196 FT	LGTD R	
LRCL_1239	POLE	464644.6N 0233436.4E	1371/120 FT	LGTD R	
LRCL_1240	POLE	464644.5N 0233441.1E	1371/120 FT	LGTD R	
LRCL_1241	POLE	464726.7N 0233320.2E	1459/58 FT	NIL	
LRCL_1242	POLE	464727.4N 0233321.7E	1452/50 FT	NIL	
LRCL_1244	POLE	464728.9N 0233324.8E	1464/63 FT	NIL	
LRCL_1245	POLE	464739.9N 0233347.7E	1516/60 FT	NIL	
LRCL_1246	POLE	464742.7N 0233353.5E	1531/53 FT	NIL	
LRCL_1247	ANTENNA	464800.2N 0233559.7E	1376/108 FT	MARKED/LGTD R	
LRCL_1248	ANTENNA	464803.2N 0233600.9E	1363/102 FT	MARKED/LGTD R	
LRCL_1249	BUILDING	465026.2N 0233421.3E	1637/77 FT	NIL	
LRCL_1250	CRANE	465023.0N 0233420.2E	1649/117 FT	MARKED/LGTD R	
LRCL_1251	CRANE	465030.1N 0233412.0E	1685/114 FT	MARKED/LGTD R	
LRCL_1252	ANTENNA	464920.7N 0233435.2E	1684/86 FT	MARKED/LGTD R	
LRCL_1253	BUILDING	464914.2N 0233450.7E	1628/85 FT	NIL	
LRCL_1254	ANTENNA	464923.2N 0233456.0E	1595/99 FT	MARKED/LGTD R	
LRCL_1256	CRANE	464925.2N 0233430.5E	1711/114 FT	MARKED/LGTD R	
LRCL_1257	BUILDING	464650.4N 0233538.8E	1334/239 FT	NIL	
LRCL_1258	BUILDING	464632.9N 0233538.6E	1274/106 FT	NIL	
LRCL_1259	CRANE	464637.4N 0233538.5E	1277/109 FT	MARKED/LGTD R	
LRCL_1260	STACK	464734.8N 0233805.2E	1229/166 FT	MARKED	
LRCL_1261	STACK	464734.8N 0233807.7E	1227/164 FT	MARKED	
LRCL_1262	BUILDING	464735.8N 0233817.6E	1160/98 FT	NIL	
LRCL_1263	POLE	464748.3N 0233847.1E	1169/103 FT	NIL	
LRCL_1264	POLE	464749.6N 0233846.5E	1231/161 FT	NIL	
LRCL_1265	POLE	464746.9N 0233903.2E	1167/115 FT	NIL	
LRCL_1266	POLE	464743.4N 0233904.1E	1134/83 FT	NIL	
LRCL_1267	POLE	464739.5N 0233904.2E	1139/89 FT	NIL	
LRCL_1268	POLE	464746.9N 0233904.7E	1166/114 FT	NIL	
LRCL_1269	STACK	464745.5N 0233949.2E	1130/82 FT	NIL	
LRCL_1270	BUILDING	464738.6N 0233952.7E	1126/84 FT	NIL	
LRCL_1271	BUILDING	464729.3N 0233953.0E	1119/78 FT	NIL	
LRCL_1272	TANK	464750.1N 0234104.3E	1094/58 FT	NIL	
LRCL_1273	TANK	464738.7N 0234059.6E	1084/51 FT	NIL	
LRCL_1274	TANK	464725.7N 0234032.7E	1084/49 FT	NIL	
LRCL_1275	POLE	464735.1N 0233857.9E	1167/119 FT	MARKED	
LRCL_1276	POLE	464734.4N 0233855.0E	1161/112 FT	MARKED	
LRCL_1277	POLE	464730.9N 0233850.2E	1130/81 FT	MARKED	
LRCL_1278	POLE	464728.3N 0233844.0E	1165/108 FT	MARKED	
LRCL_1279	POLE	464726.5N 0233842.1E	1133/76 FT	MARKED	
LRCL_1280	POLE	464723.4N 0233830.3E	1188/129 FT	MARKED	
LRCL_1281	STACK	464712.6N 0233758.0E	1214/146 FT	LGTD R	
LRCL_1282	STACK	464713.0N 0233758.0E	1228/160 FT	LGTD R	
LRCL_1283	BUILDING	464658.0N 0233802.9E	1160/97 FT	NIL	
LRCL_1284	BUILDING	464703.8N 0233852.3E	1126/68 FT	NIL	
LRCL_1285	STACK	464701.8N 0233919.2E	1117/64 FT	NIL	
LRCL_1286	BUILDING	464701.1N 0233918.3E	1095/42 FT	NIL	
LRCL_1287	TREE	464700.9N 0233918.9E	1103/50 FT	NIL	
LRCL_1288	BUILDING	464657.0N 0233921.1E	1090/37 FT	NIL	
LRCL_1290	BUILDING	464658.9N 0233941.4E	1087/50 FT	NIL	
LRCL_1298	POLE	464425.7N 0233417.2E	1496/97 FT	NIL	
LRCL_1299	POLE	464426.4N 0233417.8E	1504/100 FT	NIL	
LRCL_1300	POLE	464428.8N 0233410.6E	1554/100 FT	NIL	
LRCL_1301	POLE	464428.0N 0233410.4E	1543/96 FT	NIL	
LRCL_1302	BUILDING	464433.9N 0233352.9E	1589/104 FT	NIL	
LRCL_1303	POLE	464437.5N 0233348.6E	1657/100 FT	NIL	
LRCL_1304	BUILDING	464436.8N 0233352.7E	1586/93 FT	NIL	
LRCL_1305	POLE	464443.4N 0233333.8E	1662/99 FT	NIL	
LRCL_1306	POLE	464444.1N 0233332.2E	1644/98 FT	NIL	
LRCL_1307	POLE	464440.9N 0233340.3E	1665/102 FT	NIL	
LRCL_1308	POLE	464439.9N 0233340.0E	1662/102 FT	NIL	
LRCL_1309	ANTENNA	464456.9N 0233304.3E	1499/141 FT	NIL	
LRCL_1310	CRANE	464604.5N 0233556.4E	1347/221 FT	NIL	
LRCL_1311	BUILDING	464555.6N 0233619.5E	1284/91 FT	NIL	
LRCL_1312	BUILDING	464522.8N 0233657.9E	1398/119 FT	NIL	
LRCL_1313	BUILDING	464607.1N 0233632.0E	1260/111 FT	NIL	
LRCL_1314	BUILDING	464525.4N 0233326.9E	1412/184 FT	NIL	
LRCL_1315	BUILDING	464450.0N 0233437.6E	1642/195 FT	LGTD R	

a	b	c	d	e	f
LRCL_1316	ANTENNA	464514.1N 0233452.1E	1670/192 FT	LGTD R	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL_1317	ANTENNA	464518.4N 0233454.9E	1600/150 FT	LGTD R	
LRCL_1318	BUILDING	464516.4N 0233531.4E	1541/98 FT	NIL	
LRCL_1319	BUILDING	464454.9N 0233524.4E	1664/95 FT	NIL	
LRCL_1320	ANTENNA	464447.2N 0233518.9E	1695/110 FT	LGTD R	
LRCL_1321	POLE	464411.4N 0233529.3E	1852/100 FT	NIL	
LRCL_1322	POLE	464411.8N 0233537.4E	1830/97 FT	NIL	
LRCL_1323	POLE	464412.1N 0233540.2E	1833/99 FT	NIL	
LRCL_1324	BUILDING	464311.9N 0233522.0E	2279/90 FT	NIL	
LRCL_1325	POLE	464318.2N 0233513.9E	2287/89 FT	NIL	
LRCL_1326	POLE	464327.6N 0233517.4E	2110/83 FT	NIL	
LRCL_1327	POLE	464333.6N 0233519.6E	2080/82 FT	NIL	
LRCL_1328	POLE	464352.9N 0233516.3E	1957/83 FT	NIL	
LRCL_1329	POLE	464410.1N 0233506.9E	1868/115 FT	NIL	
LRCL_1330	POLE	464410.7N 0233517.7E	1911/118 FT	NIL	
LRCL_1331	BUILDING	464550.4N 0233554.8E	1291/88 FT	NIL	
LRCL_1332	BUILDING	464527.8N 0233434.2E	1522/91 FT	NIL	
LRCL_1333	BUILDING	464526.7N 0233439.4E	1515/88 FT	NIL	
LRCL_1334	ANTENNA	464517.6N 0233430.2E	1620/153 FT	LGTD R	
LRCL_1335	BUILDING	464535.7N 0233503.6E	1440/105 FT	NIL	
LRCL_1336	ANTENNA	464543.4N 0233457.1E	1365/109 FT	NIL	
LRCL_1337	BUILDING	464515.0N 0233553.1E	1529/102 FT	NIL	
LRCL_1338	CRANE	464516.5N 0233557.6E	1536/116 FT	NIL	
LRCL_1339	ANTENNA	464304.3N 0233626.1E	2507/89 FT	LGTD R	
LRCL_1340	POLE	464304.8N 0233605.0E	2524/69 FT	NIL	
LRCL_1341	POLE	464304.4N 0233610.0E	2547/90 FT	NIL	
LRCL_1342	POLE	464304.2N 0233613.5E	2536/76 FT	NIL	
LRCL_1343	POLE	464303.4N 0233614.0E	2534/72 FT	NIL	
LRCL_1344	POLE	464239.7N 0233901.4E	2501/82 FT	NIL	
LRCL_1345	POLE	464234.9N 0233905.3E	2490/117 FT	NIL	
LRCL_1346	BUILDING	464433.8N 0233545.6E	1692/106 FT	NIL	
LRCL_1347	POLE	464429.4N 0233542.7E	1704/102 FT	NIL	
LRCL_1348	POLE	464429.9N 0233540.6E	1705/103 FT	NIL	
LRCL_1349	POLE	464430.0N 0233539.8E	1705/103 FT	NIL	
LRCL_1350	POLE	464413.2N 0233600.9E	1757/99 FT	NIL	
LRCL_1351	CRANE	464421.4N 0233606.0E	1716/99 FT	NIL	
LRCL_1352	POLE	464421.9N 0233612.5E	1710/102 FT	NIL	
LRCL_1353	POLE	464415.9N 0233644.9E	1710/99 FT	NIL	
LRCL_1354	POLE	464415.6N 0233643.3E	1717/96 FT	NIL	
LRCL_1355	POLE	464415.1N 0233634.1E	1718/99 FT	NIL	
LRCL_1356	POLE	464416.5N 0233638.7E	1721/97 FT	NIL	
LRCL_1357	BUILDING	464459.4N 0233601.4E	1594/99 FT	NIL	
LRCL_1358	BUILDING	464537.9N 0233612.7E	1292/74 FT	NIL	
LRCL_1359	BUILDING	464630.3N 0233744.6E	1212/134 FT	NIL	
LRCL_1360	POLE	464755.2N 0234555.3E	1271/36 FT	NIL	
LRCL_1361	POLE	464754.9N 0234557.8E	1259/36 FT	NIL	
LRCL_1362	POLE	464755.6N 0234554.7E	1273/37 FT	NIL	
LRCL_1363	POLE	464757.9N 0234554.4E	1263/37 FT	NIL	
LRCL_1364	POLE	464758.4N 0234555.1E	1256/36 FT	NIL	
LRCL_1366	POLE	464759.8N 0234551.6E	1238/33 FT	NIL	
LRCL_1367	POLE	464759.7N 0234704.7E	1550/35 FT	NIL	
LRCL_1368	POLE	464759.1N 0234701.2E	1528/35 FT	NIL	
LRCL_1369	POLE	464759.9N 0234552.6E	1244/33 FT	NIL	
LRCL_1370	POLE	464800.8N 0234553.6E	1245/32 FT	NIL	
LRCL_1372	BUILDING	464752.3N 0234555.5E	1271/27 FT	NIL	
LRCL_1373	BUILDING	464750.0N 0234553.8E	1287/27 FT	NIL	
LRCL_1374	BUILDING	464750.8N 0234554.4E	1283/27 FT	NIL	
LRCL_1376	BUILDING	464751.1N 0234554.6E	1281/27 FT	NIL	
LRCL_1379	ANTENNA	464758.7N 0234655.8E	1570/100 FT	MARKED/LGTD R	
LRCL_1380	ANTENNA	464758.4N 0234710.6E	1568/45 FT	MARKED/LGTD R	
LRCL_1381	BUILDING	464807.0N 0234554.6E	1275/55 FT	NIL	
LRCL_1382	BUILDING	464807.0N 0234553.0E	1276/56 FT	NIL	
LRCL_1383	BUILDING	464806.9N 0234551.1E	1260/39 FT	NIL	
LRCL_1384	BUILDING	464806.0N 0234552.1E	1263/42 FT	NIL	
LRCL_1385	BUILDING	464805.2N 0234553.0E	1261/41 FT	NIL	
LRCL_1391	ANTENNA	464802.7N 0234935.0E	1565/162 FT	MARKED/LGTD R	
LRCL_1404	POLE	464644.5N 0233959.2E	1112/64 FT	NIL	
LRCL_1405	POLE	464551.8N 0233810.7E	1219/123 FT	NIL	
LRCL_1406	POLE	464552.9N 0233814.9E	1204/107 FT	NIL	
LRCL_1407	POLE	464550.1N 0233803.6E	1199/102 FT	NIL	
LRCL_1408	ANTENNA	465200.2N 0234827.3E	1506/451 FT	MARKED/LGTD R	
LRCL_1409	ANTENNA	465206.1N 0234837.8E	1505/449 FT	MARKED/LGTD R	
LRCL_1410	ANTENNA	465203.0N 0234827.5E	1508/452 FT	MARKED/LGTD R	

a	b	c	d	e	f
LRCL_1411	BUILDING	464642.2N 0234016.7E	1100/53 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL_1412	CRANE	464640.0N 0234023.9E	1198/150 FT	NIL	
LRCL_1413	CRANE	464641.9N 0234022.3E	1172/124 FT	NIL	
LRCL_1414	SIGN	464640.6N 0233852.7E	1130/64 FT	NIL	
LRCL_1415	SIGN	464644.1N 0233852.6E	1139/73 FT	NIL	
LRCL_1416	CRANE	464645.2N 0233842.6E	1187/118 FT	NIL	
LRCL_1417	BUILDING	464646.0N 0233843.4E	1144/74 FT	NIL	
LRCL_1418	CRANE	464642.6N 0234124.2E	1119/92 FT	NIL	
LRCL_1419	CRANE	464642.0N 0234121.6E	1165/138 FT	NIL	
LRCL_1420	BUILDING	464642.5N 0234120.5E	1088/61 FT	NIL	
LRCL_1421	POLE	464504.9N 0233729.5E	1313/98 FT	NIL	
LRCL_1422	ANTENNA	464640.4N 0233946.6E	1164/111 FT	MARKED/LGTD R	
LRCL_1423	BUILDING	464650.1N 0233825.2E	1179/107 FT	NIL	
LRCL_1426	BUILDING	464634.2N 0233814.6E	1190/106 FT	NIL	
LRCL_1428	BUILDING	464634.7N 0233813.4E	1190/105 FT	NIL	
LRCL_1429	CRANE	464608.9N 0233817.2E	1229/146 FT	NIL	
LRCL_1430	CRANE	464609.6N 0233822.0E	1212/149 FT	NIL	
LRCL_1431	BUILDING	464610.3N 0233821.5E	1167/104 FT	NIL	
LRCL_1432	ANTENNA	464656.1N 0234110.7E	1099/72 FT	NIL	
LRCL_1433	POLE	464502.3N 0233726.8E	1328/100 FT	NIL	
LRCL_1434	BUILDING	464606.4N 0233815.7E	1176/77 FT	NIL	
LRCL_1435	BUILDING	464605.9N 0233812.5E	1171/72 FT	NIL	
LRCL_1436	BUILDING	464603.8N 0233814.7E	1211/112 FT	NIL	
LRCL_1437	BUILDING	464559.9N 0233818.8E	1212/113 FT	NIL	
LRCL_1438	BUILDING	464600.3N 0233814.6E	1212/113 FT	NIL	
LRCL_1439	POLE	464500.7N 0233737.2E	1310/112 FT	NIL	
LRCL_1440	POLE	464454.1N 0233718.6E	1330/98 FT	NIL	
LRCL_1441	BUILDING	464557.9N 0233813.3E	1213/114 FT	NIL	
LRCL_1442	POLE	464456.0N 0233745.6E	1324/111 FT	NIL	
LRCL_1443	ANTENNA	464600.0N 0233738.8E	1284/130 FT	NIL	
LRCL_1444	BUILDING	464559.4N 0233735.8E	1264/109 FT	NIL	
LRCL_1445	BUILDING	464558.9N 0233733.1E	1266/107 FT	NIL	
LRCL_1446	BUILDING	464603.4N 0233722.8E	1284/117 FT	NIL	
LRCL_1447	BUILDING	464557.8N 0233713.2E	1291/117 FT	NIL	
LRCL_1448	BUILDING	464545.3N 0233652.8E	1310/120 FT	NIL	
LRCL_1449	BUILDING	464548.3N 0233652.2E	1297/107 FT	NIL	
LRCL_1450	BUILDING	464548.8N 0233650.0E	1306/116 FT	NIL	
LRCL_1451	BUILDING	464545.9N 0233654.8E	1306/116 FT	NIL	
LRCL_1452	BUILDING	464546.5N 0233656.8E	1301/112 FT	NIL	
LRCL_1453	BUILDING	464547.9N 0233655.6E	1299/110 FT	NIL	
LRCL_1454	BUILDING	464520.1N 0233723.0E	1267/95 FT	NIL	
LRCL_1455	POLE	464457.5N 0233747.4E	1275/80 FT	NIL	
LRCL_1456	POLE	464502.3N 0233753.0E	1250/96 FT	NIL	
LRCL_1458	POLE	464517.6N 0233754.8E	1243/117 FT	NIL	
LRCL_1459	POLE	464526.2N 0233754.0E	1227/102 FT	NIL	
LRCL_1460	ANTENNA	464612.2N 0233604.0E	1305/193 FT	MARKED/LGTD R	
LRCL_1461	BUILDING	464605.9N 0233607.5E	1262/124 FT	NIL	
LRCL_1462	BUILDING	464607.7N 0233645.7E	1243/70 FT	NIL	
LRCL_1463	BUILDING	464607.6N 0233643.0E	1243/71 FT	NIL	
LRCL_1464	BUILDING	464603.7N 0233706.6E	1268/107 FT	NIL	
LRCL_1466	BUILDING	464604.8N 0233705.8E	1261/100 FT	NIL	
LRCL_1467	BUILDING	464605.8N 0233704.3E	1258/96 FT	NIL	
LRCL_1469	BUILDING	464602.5N 0233710.8E	1283/119 FT	NIL	
LRCL_1470	BUILDING	464608.2N 0233711.5E	1272/130 FT	NIL	
LRCL_1471	SPIRE	464610.1N 0233710.8E	1293/154 FT	NIL	
LRCL_1472	BUILDING	464609.4N 0233710.3E	1268/126 FT	NIL	
LRCL_1474	ANTENNA	464617.4N 0233735.2E	1250/128 FT	LGTD R	
LRCL_1475	BUILDING	464613.4N 0233737.4E	1246/115 FT	NIL	
LRCL_1476	BUILDING	464623.0N 0233725.0E	1237/164 FT	NIL	
LRCL_1477	BUILDING	464622.6N 0233724.2E	1258/185 FT	NIL	
LRCL_1478	BUILDING	464620.4N 0233723.7E	1225/138 FT	NIL	
LRCL_1479	BUILDING	464619.9N 0233724.7E	1212/124 FT	NIL	
LRCL_1480	BUILDING	464621.0N 0233739.0E	1212/126 FT	NIL	
LRCL_1481	BUILDING	464634.8N 0233700.7E	1254/125 FT	NIL	
LRCL_1482	BUILDING	464635.2N 0233703.7E	1216/87 FT	NIL	
LRCL_1483	BUILDING	464630.5N 0233707.8E	1246/121 FT	NIL	
LRCL_1484	BUILDING	464626.2N 0233714.3E	1207/131 FT	NIL	
LRCL_1485	BUILDING	464627.6N 0233715.5E	1195/119 FT	NIL	
LRCL_1486	BUILDING	464629.9N 0233647.7E	1234/90 FT	NIL	
LRCL_1487	BUILDING	464832.5N 0234616.0E	1305/12 FT	NIL	
LRCL_1488	BUILDING	464628.0N 0233643.4E	1240/145 FT	NIL	
LRCL_1491	BUILDING	464631.5N 0233646.8E	1228/136 FT	NIL	
LRCL_1492	BUILDING	464632.1N 0233645.2E	1217/124 FT	NIL	
LRCL_1493	BUILDING	464637.0N 0233623.7E	1268/169 FT	NIL	

a	b	c	d	e	f
LRCL_1494	BUILDING	464642.1N 0233703.5E	1209/116 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL_1495	BUILDING	464644.8N 0233703.0E	1228/136 FT	NIL	
LRCL_1497	BUILDING	464643.0N 0233708.1E	1220/137 FT	NIL	
LRCL_1499	BUILDING	464647.0N 0233726.9E	1195/96 FT	NIL	
LRCL_1500	BUILDING	464647.6N 0233731.8E	1198/99 FT	NIL	
LRCL_1501	BUILDING	464648.8N 0233733.6E	1194/95 FT	NIL	
LRCL_1502	BUILDING	464646.8N 0233735.4E	1182/90 FT	NIL	
LRCL_1503	ANTENNA	464651.2N 0233731.7E	1228/126 FT	LGTD R	
LRCL_1504	ANTENNA	464649.6N 0233729.4E	1206/105 FT	NIL	
LRCL_1505	ANTENNA	464646.6N 0233727.8E	1212/113 FT	NIL	
LRCL_1506	ANTENNA	464650.4N 0233750.3E	1193/96 FT	NIL	
LRCL_1507	BUILDING	464650.3N 0233750.5E	1176/79 FT	NIL	
LRCL_1508	BUILDING	464650.2N 0233752.9E	1179/82 FT	NIL	
LRCL_1509	BUILDING	464649.9N 0233754.1E	1184/88 FT	NIL	
LRCL_1510	BUILDING	464648.9N 0233758.1E	1176/87 FT	NIL	
LRCL_1511	BUILDING	464650.9N 0233757.3E	1180/90 FT	NIL	
LRCL_1512	BUILDING	464658.7N 0233805.4E	1159/96 FT	NIL	
LRCL_1513	BUILDING	464651.1N 0233809.6E	1169/84 FT	NIL	
LRCL_1514	BUILDING	464651.6N 0233821.8E	1185/96 FT	NIL	
LRCL_1515	BUILDING	464652.9N 0233823.1E	1184/108 FT	NIL	
LRCL_1516	SIGN	464654.1N 0233814.2E	1167/81 FT	NIL	
LRCL_1518	BUILDING	464653.8N 0233814.3E	1176/90 FT	NIL	
LRCL_1519	BUILDING	464653.6N 0233823.2E	1195/119 FT	NIL	
LRCL_1523	POLE	464445.4N 0233717.1E	1506/98 FT	NIL	
LRCL_1524	POLE	464442.1N 0233716.5E	1536/100 FT	NIL	
LRCL_1525	POLE	464435.2N 0233708.5E	1605/102 FT	NIL	
LRCL_1526	POLE	464432.2N 0233710.1E	1655/103 FT	NIL	
LRCL_1527	POLE	464426.2N 0233713.4E	1692/94 FT	NIL	
LRCL_1528	POLE	464417.1N 0233652.1E	1729/111 FT	NIL	
LRCL_1530	POLE	464415.9N 0233644.9E	1712/98 FT	NIL	
LRCL_1531	POLE	464414.0N 0233651.0E	1734/94 FT	NIL	
LRCL_1533	POLE	464422.2N 0233659.9E	1725/120 FT	NIL	
LRCL_1535	POLE	464403.9N 0233739.7E	1776/99 FT	NIL	
LRCL_1536	POLE	464406.5N 0233727.2E	1847/101 FT	NIL	
LRCL_1537	POLE	464423.6N 0233711.7E	1715/125 FT	NIL	
LRCL_1538	POLE	464411.7N 0233702.2E	1775/97 FT	NIL	
LRCL_1541	POLE	464757.2N 0234633.2E	1342/36 FT	NIL	
LRCL_1542	ANTENNA	464440.6N 0233639.9E	1641/99 FT	LGTD R	
LRCL_1544	ANTENNA	464818.1N 0233453.9E	1928/108 FT	LGTD R	
LRCL_1546	BUILDING	464808.7N 0234553.0E	1274/54 FT	NIL	
LRCL_1549	BUILDING	464650.2N 0233757.7E	1180/97 FT	NIL	
LRCL_1597	ANTENNA	464444.1N 0233531.3E	1727/138 FT	NIL	
LRCL_1610	ANTENNA	464517.8N 0233809.3E	1323/74 FT	NIL	
LRCL_1655	ANTENNA	464648.9N 0233436.4E	1332/124 FT	LGTD R	
LRCL_1665	ANTENNA	464509.4N 0233618.9E	1599/141 FT	NIL	
LRCL_1670	BUILDING	464649.2N 0233733.8E	1177/73 FT	NIL	
LRCL_1691	ANTENNA	465041.1N 0234131.6E	1372/55 FT	LGTD R	
LRCL_1692	BUILDING	464654.1N 0233955.8E	1065/23 FT	NIL	
LRCL_1708	ANTENNA	464542.1N 0234307.6E	1491/67 FT	LGTD R	
LRCL_1714	POLE	464658.4N 0234005.7E	1054/17 FT	NIL	
LRCL_1715	POLE	464657.8N 0234004.1E	1051/14 FT	NIL	
LRCL_1716	POLE	464658.6N 0233958.5E	1053/17 FT	NIL	
LRCL_1717	POLE	464659.5N 0233957.0E	1055/18 FT	NIL	
LRCL_1718	POLE	464700.7N 0233956.4E	1055/18 FT	NIL	
LRCL_1719	POLE	464702.0N 0233955.8E	1055/18 FT	NIL	
LRCL_1720	POLE	464703.2N 0233955.2E	1055/18 FT	NIL	
LRCL_1721	POLE	464704.5N 0233954.7E	1055/18 FT	NIL	
LRCL_1722	POLE	464705.8N 0233955.3E	1055/18 FT	NIL	
LRCL_1827	POLE	464657.2N 0234111.2E	1092/66 FT	LGTD R	
LRCL_1829	POLE	464659.7N 0234115.9E	1086/61 FT	LGTD R	
LRCL_1830	POLE	464659.8N 0234119.5E	1086/61 FT	LGTD R	
LRCL_1831	POLE	464700.0N 0234123.1E	1087/61 FT	LGTD R	
LRCL_1832	POLE	464700.9N 0234107.2E	1094/67 FT	LGTD R	
LRCL_1833	POLE	464701.3N 0234110.0E	1093/67 FT	LGTD R	
LRCL_1837	BUILDING	464657.9N 0233931.5E	1086/39 FT	NIL	
LRCL_1839	ANTENNA	464556.1N 0233620.0E	1286/94 FT	NIL	
LRCL_1849	ANTENNA	464535.4N 0233552.4E	1413/91 FT	NIL	
LRCL_1851	ANTENNA	464600.5N 0233550.7E	1272/121 FT	NIL	
LRCL_1853	ANTENNA	464517.4N 0233516.0E	1546/28 FT	NIL	
LRCL_1854	BUILDING	464658.8N 0234123.7E	1087/61 FT	LGTD R	
LRCL_1855	POLE	464706.1N 0234142.6E	1095/69 FT	LGTD R	
LRCL_1856	POLE	464703.6N 0234143.8E	1095/69 FT	LGTD R	
LRCL_1857	POLE	464708.5N 0234141.4E	1095/69 FT	LGTD R	

In Area 3					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LRCL_290	ELECTRICAL_EXIT_LIGHT	464701.0N 0234109.7E	1027.8/2.3 FT	NIL	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
LRCL_291	ELECTRICAL_EXIT_LIGHT	464700.8N 0234108.1E	1027.8/2.3 FT	NIL	
LRCL_293	ELECTRICAL_EXIT_LIGHT	464658.6N 0234106.2E	1028.3/2.0 FT	NIL	
LRCL_294	POLE	464658.6N 0234105.4E	1045.8/18.4 FT	LGTD R	
LRCL_295	POLE	464657.6N 0234113.8E	1086.3/60.7 FT	LGTD R	
LRCL_296	BUILDING	464657.4N 0234115.3E	1079.5/50.0 FT	LGTD R	
LRCL_298	POLE	464656.5N 0234109.7E	1040.7/14.0 FT	LGTD R	
LRCL_299	POLE	464657.0N 0234109.1E	1087.3/60.7 FT	LGTD R	
LRCL_300	BUILDING	464656.3N 0234112.7E	1107.5/80.1 FT	LGTD R	
LRCL_311	POLE	464657.1N 0234105.1E	1056.4/28.3 FT	LGTD R	
LRCL_312	POLE	464656.1N 0234105.2E	1056.5/28.5 FT	LGTD R	
LRCL_331	NAVAID	464704.9N 0234133.0E	1031.1/4.8 FT	NIL	
LRCL_332	POLE	464704.1N 0234133.3E	1096.5/69.3 FT	LGTD R	
LRCL_333	NAVAID	464703.5N 0234133.7E	1031.6/4.8 FT	NIL	
LRCL_339	BUILDING	464658.9N 0234127.2E	1046.3/20.0 FT	NIL	
LRCL_434	ANTENNA	464656.2N 0234113.0E	1109.4/82.1 FT	MARKED	
LRCL_472	ANTENNA	464656.4N 0234112.9E	1108.1/78.6 FT	NIL	
LRCL_473	ANTENNA	464656.1N 0234110.7E	1099.0/70.9 FT	NIL	
LRCL_585	POLE	464714.2N 0234158.1E	1033.5/9.9 FT	NIL	
LRCL_587	NAVAID	464703.1N 0234109.9E	1049.4/24.1 FT	MARKED/LGTD R	
LRCL_620	SIGN	464658.8N 0234028.2E	1038.4/4.4 FT	NIL	
LRCL_621	SIGN	464658.7N 0234028.2E	1038.4/4.4 FT	NIL	
LRCL_624	SIGN	464705.1N 0234106.9E	1029.3/3.6 FT	NIL	
LRCL_627	SIGN	464703.4N 0234110.5E	1028.4/3.6 FT	NIL	
LRCL_628	SIGN	464703.3N 0234110.4E	1028.2/3.6 FT	NIL	
LRCL_634	SIGN	464714.9N 0234134.1E	1024.9/3.3 FT	NIL	
LRCL_635	SIGN	464715.8N 0234133.5E	1024.4/3.3 FT	NIL	
LRCL_636	SIGN	464717.3N 0234132.8E	1023.4/3.3 FT	NIL	
LRCL_637	SIGN	464717.3N 0234132.8E	1023.5/3.3 FT	NIL	
LRCL_638	SIGN	464716.8N 0234130.3E	1024.6/3.3 FT	NIL	
LRCL_639	SIGN	464716.8N 0234130.3E	1024.5/3.3 FT	NIL	
LRCL_640	SIGN	464716.5N 0234129.8E	1026.3/5.4 FT	NIL	
LRCL_644	SIGN	464709.9N 0234130.6E	1028.5/3.8 FT	NIL	
LRCL_645	SIGN	464709.9N 0234129.9E	1028.6/3.8 FT	NIL	
LRCL_646	SIGN	464707.6N 0234124.9E	1028.3/3.8 FT	NIL	
LRCL_647	SIGN	464707.4N 0234124.9E	1028.3/3.8 FT	NIL	
LRCL_648	SIGN	464706.2N 0234115.2E	1028.6/3.8 FT	NIL	
LRCL_649	SIGN	464706.1N 0234115.2E	1028.6/3.8 FT	NIL	
LRCL_655	SIGN	464659.1N 0234024.6E	1037.1/3.6 FT	NIL	
LRCL_656	SIGN	464659.2N 0234024.6E	1037.6/3.6 FT	NIL	
LRCL_657	SIGN	464701.4N 0234028.2E	1036.9/3.8 FT	NIL	
LRCL_663	SIGN	464714.4N 0234140.5E	1031.0/9.5 FT	LGTD R	
LRCL_664	SIGN	464713.8N 0234141.0E	1029.0/7.5 FT	NIL	
LRCL_666	POLE	464706.5N 0234132.1E	1095.5/69.0 FT	LGTD R	
LRCL_667	ELECTRICAL_EXIT_LIGHT	464706.5N 0234132.3E	1030.9/4.8 FT	NIL	
LRCL_1110	SIGN	464704.7N 0234024.3E	1040.3/3.8 FT	NIL	
LRCL_1111	SIGN	464705.5N 0234026.9E	1040.1/3.8 FT	NIL	
LRCL_1112	NAVAID	464711.3N 0234042.1E	1033.7/3.4 FT	MARKED/ LGTD G	
LRCL_1113	NAVAID	464711.5N 0234041.9E	1033.9/3.4 FT	MARKED/ LGTD G	
LRCL_1114	NAVAID	464711.8N 0234041.8E	1033.4/3.4 FT	MARKED/ LGTD G	
LRCL_1115	NAVAID	464712.1N 0234041.7E	1033.4/3.4 FT	MARKED/ LGTD G	
LRCL_1116	SIGN	464718.4N 0234125.0E	1027.2/3.8 FT	NIL	
LRCL_1122	NAVAID	464719.4N 0234133.5E	1025.1/3.4 FT	MARKED/ LGTD G	
LRCL_1123	NAVAID	464719.6N 0234133.4E	1025.1/3.4 FT	MARKED/ LGTD G	
LRCL_1124	NAVAID	464719.9N 0234133.3E	1025.1/3.4 FT	MARKED/ LGTD G	
LRCL_1125	NAVAID	464720.2N 0234133.1E	1025.1/3.4 FT	MARKED/ LGTD G	
LRCL_1126	SIGN	464720.8N 0234135.7E	1026.0/3.8 FT	NIL	
LRCL_1127	POLE	464709.0N 0234140.4E	1095.1/68.8 FT	LGTD R	
LRCL_1128	POLE	464706.5N 0234141.4E	1094.9/68.2 FT	LGTD R	
LRCL_1129	POLE	464712.8N 0234139.9E	1091.1/67.3 FT	LGTD R	
LRCL_1130	POLE	464703.3N 0234136.9E	1094.7/66.5 FT	LGTD R	
LRCL_1188	ANTENNA	464656.2N 0234108.0E	1038.4/11.2 FT	NIL	
LRCL_1365	ELECTRICAL_EXIT_LIGHT	464658.0N 0234106.6E	1028.9/2.3 FT	NIL	
LRCL_1390	BUILDING	464659.4N 0234126.8E	1035.2/9.1 FT	NIL	
LRCL_1427	BUILDING	464656.8N 0234112.8E	1042.5/15.5 FT	LGTD R	
LRCL_1432	ANTENNA	464656.1N 0234110.7E	1098.9/71.9 FT	NIL	
LRCL_1465	FENCE	464656.7N 0234110.8E	1037.8/10.7 FT	NIL	
LRCL_1468	BUILDING	464656.7N 0234110.9E	1036.9/9.8 FT	NIL	
LRCL_1473	BUILDING	464656.1N 0234109.1E	1048.2/20.7 FT	LGTD R	
LRCL_1489	BUILDING	464656.3N 0234109.6E	1035.1/8.0 FT	LGTD R	

a	b	c	d	e	f
LRCL_1520	FENCE	464657.9N 0234105.3E	1034.9/8.0 FT	NIL	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
LRCL_1567	BUILDING	464703.7N 0234141.9E	1043.9/17.1 FT	LGTD R	
LRCL_1568	BUILDING	464706.9N 0234130.9E	1043.0/16.2 FT	LGTD R	
LRCL_1569	BUILDING	464703.4N 0234140.6E	1035.8/9.0 FT	NIL	
LRCL_1572	SIGN	464701.1N 0234024.0E	1038.0/3.6 FT	NIL	
LRCL_1573	SIGN	464706.4N 0234058.8E	1031.1/3.6 FT	NIL	
LRCL_1574	SIGN	464706.3N 0234119.7E	1029.3/3.6 FT	NIL	
LRCL_1575	SIGN	464710.4N 0234133.3E	1029.1/3.6 FT	NIL	
LRCL_1827	POLE	464657.2N 0234111.2E	1092.2/65.8 FT	LGTD R	
LRCL_1829	POLE	464659.7N 0234115.9E	1086.4/60.5 FT	LGTD R	
LRCL_1830	POLE	464659.8N 0234119.5E	1086.4/60.5 FT	LGTD R	
LRCL_1831	POLE	464700.0N 0234123.1E	1087.1/60.5 FT	LGTD R	
LRCL_1832	POLE	464700.9N 0234107.2E	1093.9/67.3 FT	LGTD R	
LRCL_1833	POLE	464701.3N 0234110.0E	1093.4/67.3 FT	LGTD R	
LRCL_1854	BUILDING	464658.8N 0234123.7E	1087.1/60.5 FT	LGTD R	
LRCL_1855	POLE	464706.1N 0234142.6E	1094.6/68.7 FT	LGTD R	
LRCL_1856	POLE	464703.6N 0234143.8E	1094.9/69.0 FT	LGTD R	
LRCL_1857	POLE	464708.5N 0234141.4E	1094.8/68.9 FT	LGTD R	

LRCL AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	*Associated MET Office*	CLUJ
2	*Hours of service* *MET Office outside hours*	H24 -
3	*Office responsible for TAF preparation* *Periods of validity* *Interval of issuance*	LROM 9 HR 3 HR, during aerodrome operational hours
4	*Type of landing forecast* *Interval of issuance*	NIL -
5	*Briefing / consultation provided*	Self-briefing; briefing/consultation on request (see row 8)
6	*Flight documentation* *Language(s) used*	Charts, tabular form, abbreviated plain language text Romanian, English
7	*Charts and other information available for briefing or consultation*	SWC, W/T Charts, SIGMET, METAR, TAF
8	*Supplementary equipment available for providing information*	Tel: +40-(0)264-416855 Fax: +40-(0)264-416855
9	*ATS units provided with information*	CLUJ TWR
10	*Additional information (limitation of service, etc.)*	NIL

LRCL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE BRG*	*Dimensions of RWY (M)*	*Strength (PCN) and surface of RWY and SWY*	*THR coord RWY end coord THR geoid undulation*	*THR elevation and highest elevation of TDZ of precision APP RWY*	*Slope of RWY-SWY*
1	2	3	4	5	6	7
07	071.83°	2040 x 45	114/R/B/W/T Concrete	464706.53N 0234026.61E 464724.70N 0234147.26E GUND 133.1 FT	THR 1037.4 FT	-0.1% (135 M) -0.4% (540 M) -0.24% (960 M) 0.00% (345 M)
25	251.84°	2040 x 45	114/R/B/W/T Concrete	464724.70N 0234147.26E 464704.10N 0234015.86E GUND 132.9 FT	THR 1023.3 FT TDZ 1023.3 FT	0.00 % (345 M) 0.24% (960 M) 0.4% (540 M) 0.1% (135 M)

SWY dimensions (M)	*CWY dimensions (M)*	*Strip dimensions (M)*	*RESA dimensions (M)*	*Location and description of ARST system*	*OFZ*	*Remarks*
8	9	10	11	12	13	14
NIL	60 x 180	2160 x 210	90 x 150	NIL	Yes	Threshold displaced from the end of the runway by 240 M
NIL	60 x 180	2160 x 210	100 x 150	NIL	NIL	NIL

LRCL AD 2.13 DECLARED DISTANCES

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
07	2040	2100	2040	1800	NIL
25	2040	2100	2040	2040	NIL

LRCL AD 2.14 APPROACH AND RWY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
07	ALSF-I 810M LIH	Green WBAR	PAPI 3° (53 FT)	NIL	900M, 15M, White, LIH 600M, 15M, Red/White, LIH 300M, 15M, Red, LIH	1200M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red	NIL	RWY 07, LED lights used for centerline lighting system
25	ALSF-II 900M LIH	Green WBAR	PAPI 3° (55 FT)	White 900M	1140M, 15M, White, LIH 600M, 15M, Red/White, LIH 300M, 15M, Red, LIH	1440M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red	NIL	RWY 25, LED lights used for TDZ and centerline lighting system

LRCL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN / IBN location, characteristics and hours of operation*	NIL
2	*LDI location and LGT* *Anemometer location and LGT*	NIL Cup anemometer 165m FM THR 25 Cup anemometer 64m FM THR 07
3	*TWY edge and centre line lighting*	TWY edge: blue, omni-directional, LIL. TWY centre line: green, bi-directional, LIH.
4	*Secondary power supply/switch-over time*	Secondary power supply to CAT I/II lighting. Switch-over time 1 sec (RWY, TWYs, aprons).
5	*Remarks*	Apron floodlighting,obstacle lighting.

LRCL AD 2.16 HELICOPTER LANDING AREA

1	*Co-ordinates TLOF or THR of FATO* *Geoid undulation*	NIL NIL
2	*TLOF and/or FATO elevation M/FT*	NIL
3	*TLOF and FATO area dimensions, surface, strength, marking*	NIL
4	*True and MAG BRG of FATO*	NIL
5	*Declared distance available*	NIL
6	*APP and FATO lighting*	NIL
7	*Remarks*	NIL

LRCL AD 2.17 ATS AIRSPACE

1	*Designation and lateral limits*	CLUJ-NAPOCA CTR 464901N 0232101E - 465703N 0235639E - 464830N 0240044E - 464028N 0232505E - 464901N 0232101E
2	*Vertical limits*	GND to 3000 FT AMSL
3	*Airspace classification*	C
4	*ATS unit call sign* *Language(s)*	Cluj Tower English, Romanian
5	*Transition altitude*	7000 FT QNH
6	*Hours of applicability*	H24
7	*Remarks*	NIL

LRCL AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/ Frequency	SATVOICE	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
APP	NAPOC Approach	126.430 127.275 MHz ALTN	NIL	NIL	H24	Radar Service
APP	NAPOC North Approach	126.430 127.275 MHz ALTN	NIL	NIL	H24	Radar Service
APP	NAPOC South Approach	119.680 127.275 MHz ALTN	NIL	NIL	H24	Radar Service
TWR	Cluj Tower	118.705 134.400 MHz ALTN 121.500 MHz EMERG	NIL	NIL	H24	Exempted 8.33 kHz State aircraft.
ATIS	Cluj ATIS	125.525 MHz	NIL	NIL	H24	NIL

LRCL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR Type of supported OPS ILS classification GBAS classification (For VOR/ILS/MLS give declination)	ID	Frequency / Channel	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna / ELEV of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
1	2	3	4	5	6	7	8
LOC 25 (5°E/2015) ILS CAT II (II.T.3)	ICX	111.900 MHz	H24	464701.6N 0234004.7E	-	NIL	Front course angle 5.35° LOC coverage not assured at 17M +/-35°. LOC coverage is assured at 10NM +/-35° and 18NM +/-10°.
GP 25	-	331.100 MHz	H24	464717.8N 0234134.9E	-	NIL	GP angle 3.0º ILS RDH 54 FT Between 6° and 8° on the left side of runway centerline (as seen from the aircraft) from 9NM to 10NM, GP coverage is not assured.
DME 25	ICX	1017.000 MHz CH 56X	H24	464717.6N 0234134.9E	1100 FT	NIL	NIL
DVOR/DME (5°E/2015)	CLJ	111.200 MHz CH 49X	H24	464800.4N 0234714.1E	1600 FT	NIL	075.8 MAG / 3.79 NM from THR 25 Coverage 175 NM (assumed)
DVOR/DME (5°E/2010)	SBI	114.000 MHz CH 87X	H24	454651.3N 0240516.1E	1500 FT	NIL	Coverage 150 NM DVOR Coverage 100 NM DME
DME	BAI	1150.000 MHz CH 126Y	H24	462928.0N 0231412.0E	6000 FT	NIL	Coverage 100 NM (declared) Unusable in sector 140°-260°
DME	CHU	1053.000 MHz CH 29X	H24	461059.0N 0244913.9E	2500 FT	NIL	Coverage 100 NM (declared) Unusable in sector 110°-205°
DME	ZLU	1041.000 MHz CH 17X	H24	470910.1N 0230606.9E	2400 FT	NIL	Coverage 100 NM (declared) Unusable in sectors 245°-360° and 045°-060°
DME	CIC	1083.000MHz CH 59Y	H24	461940.4N 0233211.0E	3400 FT	NIL	Coverage 100 NM (assumed) Unusable in sector 230°-340°
DME	PLT	1102.000MHz CH 78X	H24	453832.2N 0235637.3E	5800 FT	NIL	Coverage 100 NM (assumed) Unusable in sector 90°-92° and 190°-260°
DME	HNU	1087.000 MHz CH 63X	H24	471638.8N 0244407.0E	5400 FT	NIL	Coverage 100 NM (declared) Unusable in sector 310°-075°

1	2	3	4	5	6	7	8
NDB	SIB	381 KHz	H24	454706.0N 0240909.3E	NIL	NIL	Coverage 100 NM (declared)
NDB	TGM	428 KHz	H24	462648.9N 0241823.7E	NIL	NIL	Coverage 80 NM (declared)
GPS NPA	-	1575.420 MHz	H24	NIL	NIL	NIL	Transmitting antennas are satellite based. Maintained by the U.S. Department of Defense.
EGNOS LPV	-	1575.420 MHz	H24	NIL	NIL	NIL	Transmitting antennas are satellite based. Maintained by the European Satellite Services Provider - ESSP.

LRCL AD 2.20 LOCAL AERODROME REGULATIONS

1. Airport regulations / Reguli de aeroport

1. Operation with aircraft exceeding the certified design characteristics of the aerodrome (4C):
a) must obtain prior approval from the aerodrome operator, request that must be sent to oper@airportcluj.ro, minimum 10 days before flight;
b) in case of declared emergency situations, these may use LRCL without prior approval.

2. When landing on RWY 07, the above-mentioned aircraft, shall vacate runway following the standard taxi route ARRIVAL 1D.

3. When landing on RWY 25, the above-mentioned aircraft, shall vacate runway following the standard taxi route ARRIVAL 2D.

1. Operarea cu aeronave care depășesc caracteristicile de proiectare certificate ale aerodromului (4C):
a) trebuie să obțină în prealabil aprobarea operatorului de aerodrom, solicitarea care va fi transmisă pe adresa oper@airportcluj.ro cu minim 10 zile înaintea zborului;
b) în situații de urgență declarate, acestea pot utiliza LRCL fără aprobare prealabilă.

2. Când aterizează pe pista 07, aeronavele menţionate mai sus, vor degaja pista urmând ruta standard de rulare ARRIVAL 1D.

3. Când aterizează pe pista 25, menţionate mai sus, vor degaja pista urmând ruta standard de rulare ARRIVAL 2D.

2. APRON MANAGEMENT / ADMINISTRAREA PLATFORMEI

1. Apron management, at Cluj *Avram Iancu* International Airport, is coordinated between the aerodrome operator and the air traffic service provider. The provisions can be found in the local procedure which can be requested at office@airportcluj.ro *(available only in Romanian).*

2. Air to ground communications facilities used at the apron:

Service designation	Call sign	Channel (s) /frequency	Hours of operation	Remarks
Start-up authorizations and taxiing instructions	CLUJ Tower	According to LRCL AD 2.18 ATS COMMUNICATION FACILITIES		
Stand allocation				

3. During taxi on apron, it is recommended that all aircrafts to use the engine thrust as low as possible.

4. For aircraft parking Marshaller assistance is provided.

5. Aircraft exit from parking stands is carried out by push-back procedure, except exit from stand 12.

6. Marshaller's guidance must be provided to a moving aircraft on the apron surface whenever:
a) on pilot request;
b) during low visibility conditions (LVP).

7. Pedestrian displacement of passengers and crew is allowed only on APRON 1 to/from aircraft parking stands 4, 5, 6 and 23 to/from terminals, for embarking/disembarking operations.

1. Pe Aeroportul Internaţional *Avram Iancu* Cluj, administrarea platformei este coordonată între operatorul de aerodrom şi furnizorul serviciilor de trafic aerian. Prevederile sunt regăsite în procedura locală care poate fi solicitată la adresa office@airportcluj.ro *(disponibilă numai în limba română).*

2. Facilități de comunicații aer-sol desemnate pentru a fi utilizate la platformă:

Tip serviciu	Indicativ de apel	Canal(e) /frecvență	Ore de funcționare	Observaţii
Autorizații de pornire și instrucțiuni de rulaj	CLUJ Tower	Conform LRCL AD 2.18 ATS COMMUNICATION FACILITIES		
Alocare stand				

3. Pe durata rulării aeronavelor pe platformă, se recomandă utilizarea motoarelor la o turaţie cât mai redusă.

4. Pentru parcarea aeronavelor se asigură asistenţă de către Dispecerul Sol.

5. Ieşirea de la pozițiile de parcare este realizată prin procedură push-back, excepţie fiind ieșirea de la stand 12.

6. Dirijarea aeronavelor în mişcare pe suprafeţele platformelor va fi asigurată de către dispecerul sol în următoarele situaţii:
a) la solicitarea pilotului comandant;
b) în condiţii de vizibilitate redusă (LVP).

7. Deplasarea pedestră a pasagerilor și echipajelor este permisă doar pe APRON 1 la/de la pozițiile de parcare aeronave 4, 5, 6 și 23 la/de la terminal, pentru efectuarea operațiunilor de îmbarcare/debarcare.

3. STANDARD TAXI ROUTES / RUTE STANDARD DE RULARE

3.1 Standard ARRIVAL Taxi Routes / Rutele Standard la SOSIRE

Landing on RWY 07						
Instruction given by ATC						
	Name of the Standard Taxi Route		**APRON**	**Stand**	**Taxiway to be followed**	**Remarks**
Taxi via standard taxi route	Arrival 1A	To	APRON 1	1-3	RWY backtrack TWY G TWY D TWY A	To be used by A/C with MTOW < 62 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.
	Arrival 1B			4-6,23	RWY backtrack TWY G TWY H TWY I TWY K	NIL
	Arrival 1C			7-9	RWY backtrack TWY G TWY D TWY A	To be used by A/C with MTOW < 62 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.
	Arrival 1D		APRON 2	10,11	RWY backtrack TWY G	NIL
	Arrival 1E			12	RWY backtrack TWY G TWY E	In emergency situation is assigned as isolated aircraft position
	Arrival 1F			13-18	RWY backtrack TWY G TWY C	NIL
	Arrival 1G			19-22	RWY backtrack TWY G TWY E TWY B	
Landing on RWY 25						
Instruction given by ATC						
	Name of the Standard Taxi Route		**APRON**	**Stand**	**Taxiway to be followed**	**Remarks**
Taxi via standard taxi route	Arrival 2A	To	APRON 1	1-3	TWY F TWY H TWY D TWY A	To be used by A/C with MTOW < 62 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.
	Arrival 2B			4-6, 23	TWY F TWY H TWY I TWY K	NIL
	Arrival 2C			7-9	TWY F TWY H TWY D TWY A	To be used by A/C with MTOW < 62 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.
	Arrival 2D		APRON 2	10,11	TWY F TWY H TWY G	NIL
	Arrival 2E			12	TWY F TWY H TWY G TWY E	In emergency situation is assigned as isolated aircraft position
	Arrival 2F			13-18	TWY F TWY H TWY G TWY C	NIL
	Arrival 2G			19-22	TWY F TWY H TWY G TWY E TWY B	

3. 2 Standard DEPARTURE Taxi Routes / Rutele Standard de Rulare la PLECARE

Take-off RWY 07						
	Instruction given by ATC				Stop bar	Remarks
	From	Stand	Name of the Standard Taxi Route	Taxiway to be followed		
Taxi via standard tax route	APRON 1	1-3	Departure 1A	TWY A TWY D TWY H TWY F	TWY H	To be used by A/C with MTOW < 62 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.
		4-6,23	Departure 1B	TWY K TWY I TWY H TWY F		NIL
		7-9	Departure 1C	TWY A TWY D TWY H TWY F		To be used by A/C with MTOW < 62 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.
	APRON 2	10,11	Departure 1D	TWY G TWY H TWY F		NIL
		12	Departure 1E	TWY E TWY G TWY H TWY F		
		13-18	Departure 1F	TWY C TWY G TWY H TWY F		
		19-22	Departure 1G	TWY B TWY E TWY G TWY H TWY F		
Take-off RWY 25						
	Instruction given by ATC				Stop bar	Remarks
	From	Stand	Name of the Standard Taxi Route	Taxiway to be followed		
Taxi via standard tax route	APRON 1	1-3	Departure 2A	TWY A TWY D TWY G RWY backtrack	TWY G	To be used by A/C with MTOW < 62 T. Exceptions applied by TWR in order to ensure fluency of the airport air traffic.
		4-6,23	Departure 2B	TWY K TWY I TWY H TWY G RWY backtrack		NIL
		7-9	Departure 2C	TWY A TWY D TWY G RWY backtrack		To be used by A/C with MTOW < 62 T. Exceptions applied by TWR in order to ensure fluency of the airport air traffic.
	APRON 2	10,11	Departure 2D	TWY G RWY backtrack		NIL
		12	Departure 2E	TWY E TWY G RWY backtrack		
		13-18	Departure 2F	TWY C TWY G RWY backtrack		
		19-22	Departure 2G	TWY B TWY E TWY G RWY backtrack		

4. HELICOPTER OPERATION-LIMITATIONS / OPERAREA ELICOPTERELOR-LIMITĂRI

1. Helicopter movement can be performed both by air or ground taxi, but only with mandatory use of the published standard taxi routes.

2. Helicopters will be parked on a marked / unmarked apron parking stand only with ground marshaller guidance.

1. Deplasarea elicopterelor poate fi efectuată atât în rulaj aerian, cât şi la sol dar cu respectarea obligatorie a rutelor standard de rulare publicate.

2. Elicopterele vor fi parcate pe platformă, pe poziţii marcate/nemarcate, doar cu dirijarea dispecerului sol.

LRCL AD 2.21 NOISE ABATEMENT PROCEDURES

1. For DEPARTURES - See AD 1.1-3.

2. The APU is permitted functioning **maximum 15 minutes** after BLOCK ON TIME and may be started **with maximum 30 minutes** before STD.

3. In order to ensure noise reduction, mostly, landing will be performed on RWY 25 and takeoff will be performed on RWY 07 on the following time intervals:
   a) for summer season: between 20.00 UTC and 04.00 UTC;
   b) for winter season: between 21.00 UTC and 05.00 UTC.

1. Pentru DECOLĂRI - Vezi AD 1.1-3.

2. La aterizare, aeronavele pot menţine APU în funcţiune **maxim 15 minute** de la ora BLOCK ON TIME. La decolare APU poate fi pornit **cu maxim 30 minute** înainte de STD.

3. Pentru a asigura reducerea zgomotului, aterizarea va fi efectuată preponderent pe RWY 25 și decolarea se va efectua preponderent pe RWY 07 în următoarele intervale de timp:
   a) pentru sezonul de vară: între 20.00 UTC şi 04.00 UTC;
   b) pentru sezonul de iarnă: între 21.00 UTC şi 05.00 UTC.

LRCL AD 2.22 FLIGHT PROCEDURES

1. P-RNAV requirements / Cerinţe P-RNAV

RNAV SID and STAR procedures within NAPOC TMA are based on DME-DME sensors and designed in accordance with RNAV-1 (P-RNAV) criteria. RNAV-1 (P-RNAV) approval is required to conduct these procedures without additional restrictions.
RNAV-1 (P-RNAV) approved aircraft operators shall fill-in accordingly the flight plan.
Expect direct routing/shortcuts by ATC whenever possible (especially during off-peak hours). The turn to final approach is usually performed by radar vectors to expedite traffic handling and for separation reasons.

Tactical points for non-standard shorter approach are established: IXORI for CL RWY07, VIBUD for CL RWY25. These points may be used only after request/approval of air crews.
Vertical planning information: air crews should plan for possible descent clearance in accordance with vertical restrictions specified on STAR charts. Actual descent clearance will be as directed by ATC.

In case a published climb gradient can not be respected, air crews should request non-standard departure before startup.

Procedurile SID şi STAR RNAV din TMA NAPOC se bazează pe senzori DME-DME şi sunt proiectate în conformitate cu criteriile RNAV-1 (P-RNAV). Pentru operarea acestor proceduri fără restricţii suplimentare, este necesară aprobarea RNAV-1 (P-RNAV).
Operatorii aeronavelor aprobate RNAV-1 (P-RNAV) trebuie să completeze corespunzător planul de zbor.
Ori de câte ori este posibil, ATC va acorda autorizări “direct-to” (îndeosebi în afara perioadelor de vârf).
Virajul către apropierea finală este de obicei efectuat prin vectorizare radar, pentru a fluidiza traficul şi pentru asigurarea eşalonării.
Sunt stabilite puncte tactice pentru apropieri non-standard mai scurte: IXORI pentru CL RWY07, VIBUD pentru CL RWY25. Aceste puncte pot fi utilizate numai la cererea sau cu acordul echipajului.
Informaţii privind planificarea profilului de zbor vertical: se recomandă ca echipajele să efectueze planificarea zborului pentru o posibilă autorizare a coborârii în conformitate cu restricţiile verticale specificate pe harta STAR. Coborârea se va efectua însă în conformitate cu instrucţiunile ATC.
În cazul în care un gradient de urcare publicat nu poate fi respectat, se recomandă ca echipajele să solicite o decolare non-standard înainte de pornirea motoarelor.

2. LOW VISIBILITY PROCEDURES / PROCEDURI ÎN CONDIŢII DE VIZIBILITATE REDUSĂ

1. Description of facilities

1.1 Runway 25 is equipped with ILS and is approved for CAT II (RVR not less than 300m) operations.

1.2 Runway 07 approved for LVTO (RVR not less than 125m) operations.

1.3 Runway 25 approved for LVTO (RVR not less than 125m) operations.

1.4 On pilots request FOLLOW ME assitance is provided.

2. Criteria for the initiation and termination of LVP

2.1 The preparation phase will be commenced when the RVR is 800m (horizontal visibility 1500m) or cloud ceiling/vertical visibility is 500ft and CAT II operations are expected;

2.2 The operation phase will be commenced when the RVR falls below 550m (horizontal visibility falls below 800m) or cloud ceiling/vertical visibility is 200ft or less;

2.3 LVP will be terminated when RVR is greater than 800m (horizontal visibility is 1500m or higher) and cloud ceiling/vertical visibility is greater than 300ft and a continuing improvement of these conditions is anticipated.

3. Details of runway exits

3.1 Runway exits are equipped with green/yellow coded taxiway centerline lights.

3.2 Pilots shall report "OUT OF RUNWAY CAT II HOLDING POSITION" only after aircraft passed the green/yellow coded taxiway centre line lights section of taxiways F and G.

4. Ground movements restrictions

4.1 All aircraft movements on taxlways to/from RWY 07/25 shall be carried out on ¡Standard LVP Taxi-Routes;

4.2 Upon receiving taxi clearance, aircraft shall proceed only when green centre line path is illuminated;

4.3 During the LVP operational phase, when STOP BAR lights are technically operational, multiple aircraft may be authorized on the maneuvering area, without simultaneously authorizing vehicles.

4.4 During the LVP operational phase, when the STOP BAR lights are technically operational, multiple vehicles may be authorized on the maneuvering area, without simultaneously authorizing aircraft.

4.5 During the LVP operational phase, when the STOP BAR lights are technically non-operational, only a single aircraft or a single vehicle shall be authorized on the maneuvering area.

4.6 STOP BAR lights shall remain continuously ON, except situations where Cluj TWR has transmitted approval for aircraft/vehicles to entry on runway.

5. Description of LVP

5.1 Approach and Landing in CAT II conditions

a)Pilots will be informed by ATIS or RTF when LVP are in operation;

b)ATC will apply a proper spacing between aircraft so that aircraft being on final approach should be at least 4NM distance to TDZ(RWY25), when the preceding aircraft, in landing sequence, landed and had left sensible area of ILS Localiser RWY25.

1. Descrierea facilităţilor

1.1 Pista 25 este echipată cu ILS şi este autorizată pentru desfăşurarea operaţiunilor CAT II (RVR nu mai mic de 300m).

1.2 Pista 07 autorizată pentru LVTO (RVR nu mai mic de 125m).

1.3 Pista 25 autorizată pentru LVTO (RVR nu mai mic de 125m).

1.4 La solicitarea piloţilor se asigură FOLLOW ME.

2. Criterii pentru iniţierea şi terminarea LVP

2.1 Faza de pregătire va fi declansata atunci când RVR are valoarea de 800m (vizibilitate orizontală 1500m) sau plafonul norilor/vizibilitate verticala este de 500ft şi sunt prevăzute declanşarea operaţiunilor CAT II;

2.2 Faza operaţională va fi declanşată atunci când valoarea RVR scade sub 550m (vizibilitatea orizontală scade sub 800m) sau plafonul norilor/vizibilitate verticala are valoare de 200ft sau mai puţin;

2.3 LVP vor fi încheiate atunci când valoarea RVR este mai mare de 800m (vizibilitate orizontală este 1500m sau mai mult) şi plafonul norilor/vizibilitate verticala este mai mare de 300ft şi este anticipată îmbunătăţirea continuă a acestor condiţii.

3. Detalii privind eliberarea pistei

3.1. Racordurile pistei cu căile de rulare sunt echipate cu lumini axiale codificate verde/galben.

3.2 Piloţii vor raporta "Pista liberă" numai după ce aeronava a depaşit segmentul codat cu lumini verde/galben al axului căilor de rulare F şi G.

4. Restricţii privind mişcarea la sol

4.1 Toate mişcările pe căile de rulare spre/dinspre RWY 07/25 se fac numai pe Rutele LVP Standard de Rulare;

4.2 La obţinerea autorizării de rulare, aeronava începe rularea doar atunci când luminile axiale verzi sunt aprinse;

4.3 Pe durata derulării fazei operaționale LVP, în condițiile în care baretele STOP BAR sunt funcționale din punct de vedere tehnic, pe suprafața de manevră pot fi autorizate mai multe aeronave, fără a fi autorizate și autovehicule în același timp.

4.4 Pe durata derulării fazei operaționale LVP, în condițiile în care baretele STOP BAR sunt funcționale din punct de vedere tehnic, pe suprafața de manevră pot fi autorizate mai multe vehicule, fără a fi autorizate și aeronave în același timp.

4.5 Pe durata derulării fazei operaționale LVP, în condițiile în care baretele STOP BAR sunt nefuncționale din punct de vedere tehnic, pe suprafața de manevră va fi autorizată o singură aeronavă sau un singur autovehicul.

4.6 Baretele STOP BAR vor fi permanent pornite, cu excepția situațiilor în care TWR Cluj a transmis aprobarea de intrare la pistă pentru aeronave/autovehicule.

5. Descrierea procedurilor în condiţii de vizibilitate scăzută

5.1. Apropiere şi aterizare CAT II

a)Piloţii vor fi informaţi ATIS sau RTF atunci când procedurile LVP sunt în derulare;

b)CTA vor aplica o eşalonare adecvată aeronavelor astfel încât aeronava aflată în procedură de apropiere să nu fie la o distanţă mai mică de 4NM faţă de TDZ (RWY 25) în momentul în care, aeronava care a precedat-o în secvenţa de trafic, a aterizat, şi a ieşit din zona sensibilă ILS Localiser RWY25.

5.2 Low Visibility Take Off

a) Aircraft movements on apron surface is monitored or guided by Ground Marshaller and on pilots request they provide “FOLLOW ME” assistance;

b) Number of vehicles subject to be allowed to enter apron surface is strictly limited to the necessary to carry out aircraft servicing;

c) All ATC and Marshaller instructions shall be confirmed through READ BACK method.

5.2. Decolarea în condiţii de vizibilitate redusă

a) Mişcarea aeronavelor pe suprafaţa platformelor aeroportului este asistată sau dirijată de către Dispecerii Sol, iar la cererea piloţilor, aceştia asigură asistenţă “FOLLOW ME”;

b) Numărul vehiculelor carora li se permite accesul pe suprafaţa platformelor se reduce strict la minimum necesar pentru deservirea aeronavelor;

c) Instrucţiunile emise de ATC şi Dispecer Sol vor fi confirmate prin READ BACK (repetarea conţinutului).

3. AUTOLAND operation / Operaţiuni AUTOLAND

a) Before AUTOLAND operation, crew must advise Cluj TWR about this intention and Cluj TWR must inform Ground Operations Service in order to take the appropriate safety measures.

b) After landing, crew must provide feedback by completing a form, related to the performance of the AUTOLAND operation including information related to the parameters of the on-board and ground navigation equipment.

c) The completed AUTOLAND form is sent by the Ground Operations Service to the Aeronautical Quality and Safety Department for keeping.

d) The form can be requested at the following e-mail address: oper@airportcluj.ro.

a) Echipajele aeronavelor care își propun să efectueze operațiuni de aterizare AUTOLAND anunță TWR Cluj asupra acestor intenții iar TWR Cluj anunță Serviciul Operațiuni Sol al Aeroportului în vederea luării măsurilor specifice de siguranță;

b) După aterizare, echipajele aeronavelor oferă un feedback prin completarea unui chestionar, referitor la modul de desfăşurare a operațiunii de aterizare AUTOLAND efectuate, asupra funcționării în parametri de operare stabiliți a echipamentelor de navigatie de la bord și de la sol.

c) Formularul AUTOLAND completat este transmis de către Serviciul Operațiuni Sol la Compartimentul Calitate și Siguranță Aeronautica, în vederea păstrarii evidențelor rapoartelor de aterizare.

d) Formularul poate fi solicitat la următoarea adresă de e-mail: oper@airportcluj.ro.

LRCL AD 2.23 ADDITIONAL INFORMATION

1. Air operators which perform regular flights to Avram Iancu Cluj International Airport must ask and obtain a specific approval, from Airport Administrator in order to operate in accordance with their proposed programme during a season.
The request shall be forwarded to Airport Administrator before airport settles winter/summer flight programme.
Hours of operation, changes in operating hours, starting to fly a new destination, modifying the frequencies on existing destinations are subject to the above imentioned specific approval.
This request must be made by fax and post, to Airport Administrator (see LRCL AD 2.2, point 6) at least **15 days** before the operation starts.

1. Operatorii aerieni care efectuează curse regulate pe Aeroportul Internaţional Avram Iancu Cluj trebuie să solicite şi să obţină aprobarea Administratorului Aeroportului pentru orele propuse de operare pe aeroport.
Demersul pentru aprobarea orelor de operare (pe aeroport) trebuie făcut înaintea stabilirii programului de vară/iarnă; procedura de solicitare şi obţinere a aprobării se aplică şi în cazul modificărilor de orice fel ale orarului de operare, de introducere a unei noi destinaţii, de modificare a frecvenţei de operare spre/de la o destinaţie existentă.
Solicitarea trebuie făcută în scris şi transmisă prin fax sau poştă, către Administratorul Aeroportului (vezi LRCL AD 2.2, punctul 6) cu cel puţin **15 zile** înainte de data începerii operării.

2. List of waypoints:

WPT (Type)	Latitude	Longitude	Designator/WPT	Latitude	Longitude
ABIMO (fly-by)	N464917198	E0235008323	CL972 (fly-by)	N464942415	E0235201109
BAISA (fly-by)	N463919998	E0232102063	DINIK (fly-by)	N464443523	E0230928888
BARTA (fly-by)	N465425346	E0240521860	DRAGU (fly-by)	N470305615	E0233255495
BIRTA (fly-by)	N465942073	E0232717220	EREDI (fly-by)	N465146940	E0232136153
CL901 (fly-by)	N465612912	E0235255681	ETORA (fly-by)	N463539942	E0235649456
CL902 (fly-by)	N465414752	E0234407421	LATEL (fly-by)	N465613299	E0232348744
CL903 (fly-by)	N465343793	E0234149611	NAPOC (fly-by)	N464100039	E0235736333
CL904 (fly-by)	N465301603	E0233842205	ROPAN (fly-by)	N470501593	E0233842873
CL905 (fly-by)	N465214336	E0233512788	TIPOV	N465051429	E0235710567
CL906 (fly-by)	N465045223	E0232839505	TURDA (fly-by)	N463416850	E0235214943
CL907 (fly-by)	N464136399	E0234934744	VEXEP (fly-by)	N463429781	E0232921938
CL908 (fly-by)	N464448596	E0235819538	VIBUD (fly-by)	N465030795	E0235537909
CL951 (fly-over)	N464622893	E0233106595			
CL971 (fly-over)	N464815686	E0234533950			

3. Removal of disabled aircraft / Îndepărtarea aeronavelor imobilizate

a) Aircraft operators are responsible for removing accidentally disabled aircraft on the moving surface and the adjacent safety strip.
b) Cluj *Avram Iancu* International Airport can provides airline operators with contact details of companies owning equipment and machinery capable of removing accidentally disabled aircraft.
c) Equipment's owned for disabled aircraft removal:
- Rapid Recovery MULTISLING NARROW BODY LIFTING KIT COD C RESQTEC
- Aircraft Recovery TRAILER SYSTEM QI30T/QI20T COMBI RESQTEC

a) Operatorii aerieni sunt răspunzători de înlăturare a aeronavelor imobilizate accidental pe suprafaţa de mişcare şi benzile de siguranţă adiacente.
b) Aeroportul Internaţional Avram Iancu Cluj poate pune la dispoziţie operatorilor aerieni date de contact ale firmelor ce deţin echipamente şi utilaje capabile să înlăture aeronavele imobilizate accidental.
c) Echipamente de îndepărtare a aeronavelor deţinute imobilizate:
- Rapid Recovery MULTISLING NARROW BODY LIFTING KIT COD C RESQTEC
- Aircraft Recovery TRAILER SYSTEM QI30T/QI20T COMBI RESQTEC

4. Warning for bird hazard / Avertizare pentru pericol de păsări

Bird concentration in the AD area.

Concentrari de păsări în zona de aerodrom.

LRCL AD 2.24 CHARTS RELATED TO THE AERODROME

Changes: Chart redrawn.

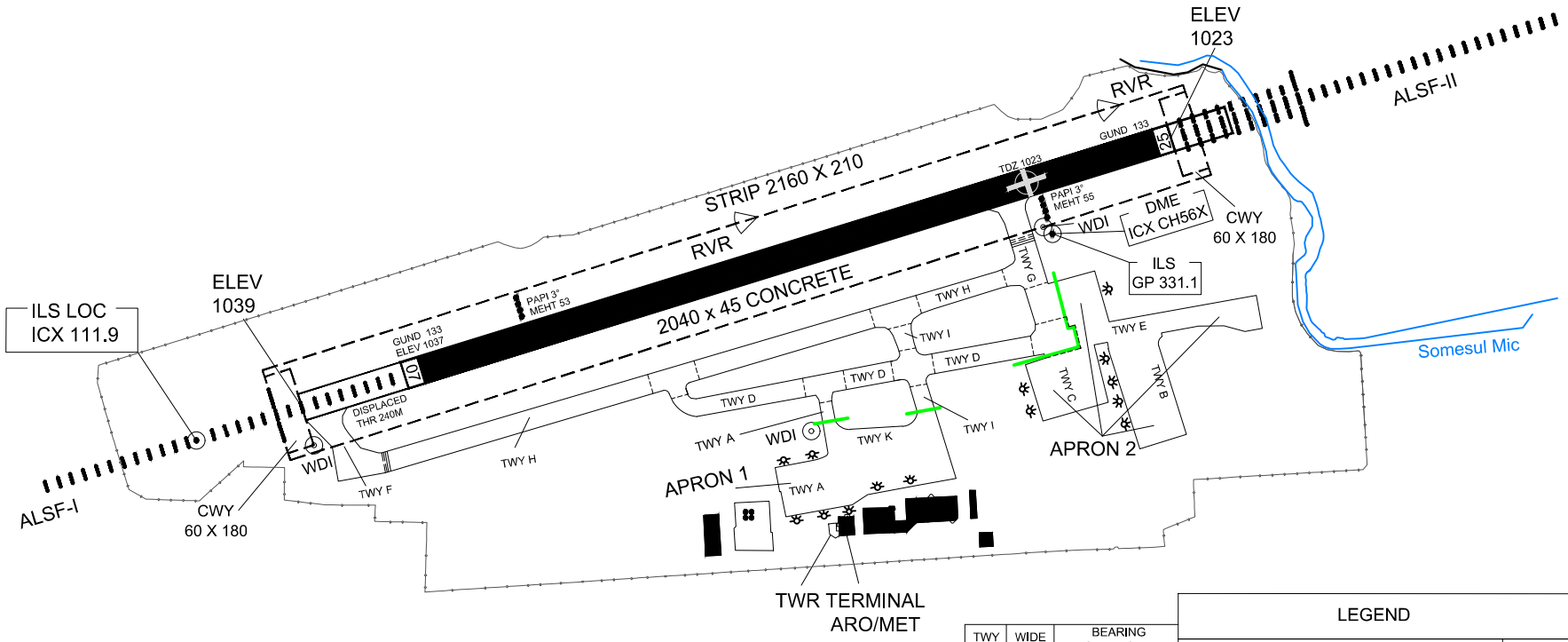
AERODROME CHART - ICAO

46° 47' 21" N
023° 41' 32" E
ELEV 1039FT

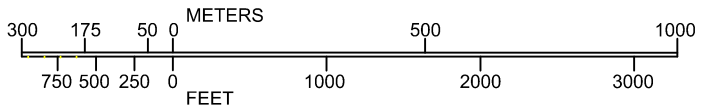
RWY	DIRECTION	THR	BEARING STRENGTH
07	067°	46°47'07"N 023°40'27"E	114/R/B/W/T CONCRETE
25	247°	46°47'25"N 023°41'47"E	
HELIPORT			

ELEVATIONS IN FEET
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC

VAR 5°E 2015
ANUAL RATE OF CHANGE 7.0'E



SCALE 1 : 15 000



TWY	WIDE	BEARING STRENGHT
A	18	PCN 27/R/B/W/T CONCRETE
B	23	PCN 105/R/B/W/T CONCRETE
C	18	PCN 94/R/B/W/T CONCRETE
D	18	PCN 31/R/B/W/T CONCRETE
E	23	PCN 115/R/B/W/T CONCRETE
F	25	PCN 72/R/B/W/T CONCRETE
G	25	PCN 114/R/B/W/T CONCRETE
H	23	PCN 72/R/B/W/T CONCRETE
I	23	PCN 102/R/B/W/T CONCRETE
K	18	PCN 123/R/B/W/T CONCRETE

LEGEND	
RUNWAY VISUAL RANGE (RVR) OBSERVATION SITE	
AERODROME REFERENCE POINT	
BUILDING	
FLOODLIGHT	
APRON BOUNDARY	
Runway Holding Position	
Intermediate Holding Position	

CLUJ TOWER	118.705
CLUJ TOWER ALTN	134.400
CLUJ ATIS	125.525

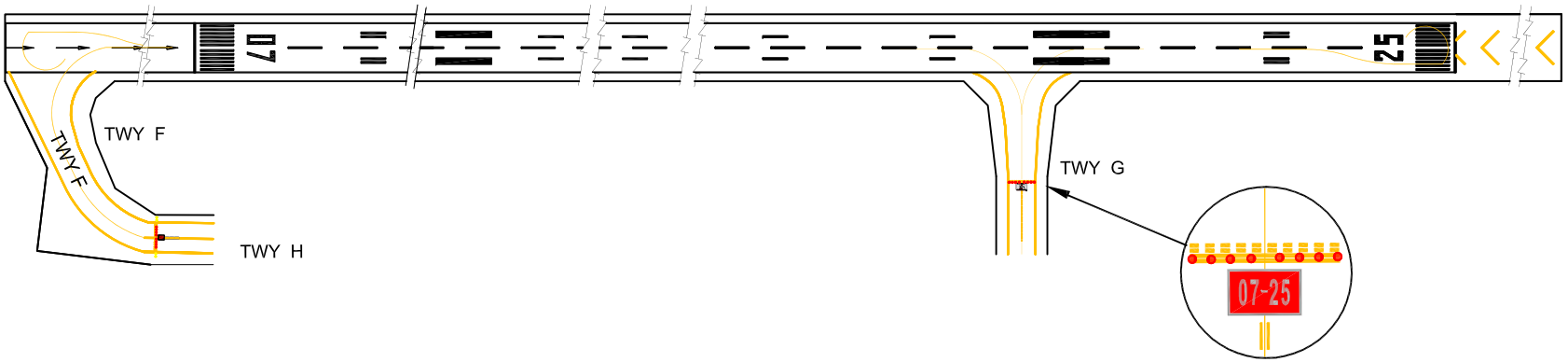
CLUJ NAPOCA / Avram Iancu (LRCL)

46° 47' 21" N
023° 41' 32" E
ELEV 1039FT

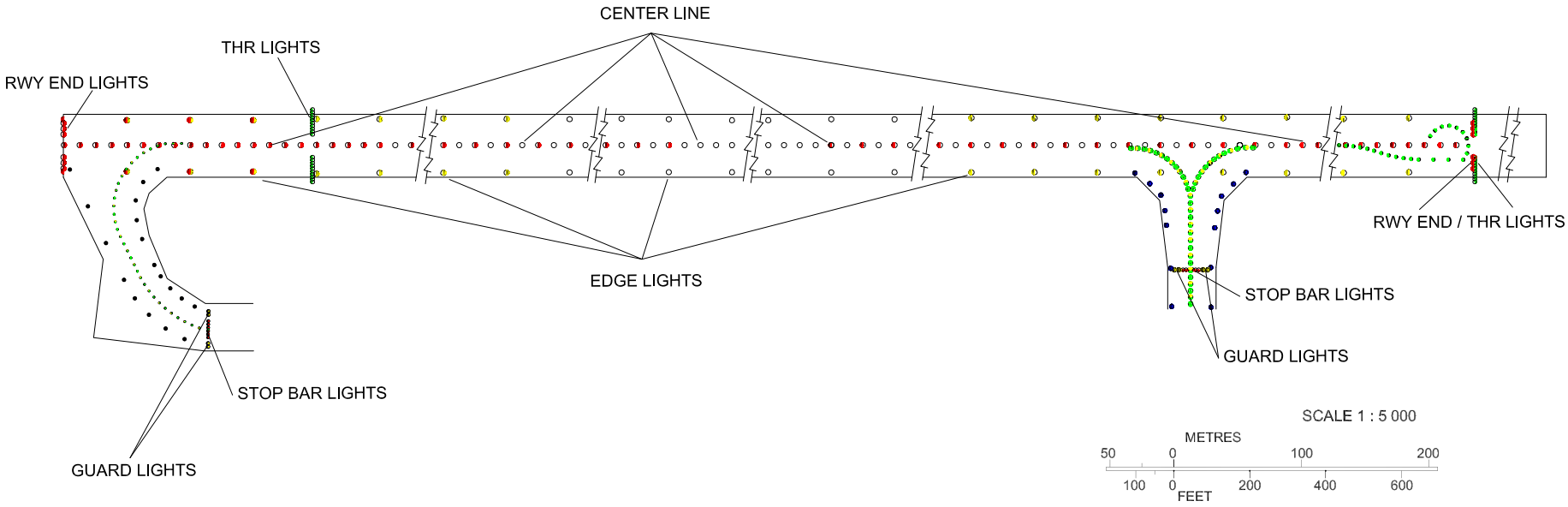
CLUJ TOWER	118.705
CLUJ TOWER ALTN	134.400
CLUJ ATIS	125.525

CLUJ NAPOCA / Avram Iancu (LRCL)

MARKING AIDS RWY 07 / 25 AND EXIT TWY



LIGHTING AIDS RWY 07 / 25 AND EXIT TWY



Changes: Chart redrawn.

AERODROME GROUND / MOVEMENT CHART - ICAO

ARP ELEV 1039 FT

APRON 1 ELEV 1026 FT
APRON 2 ELEV 1026 FT

CLUJ TOWER	118.705
CLUJ TOWER ALTN	134.400
CLUJ ATIS	125.525

CLUJ NAPOCA
Avram Iancu (LRCL)

Changes: Chart revised.

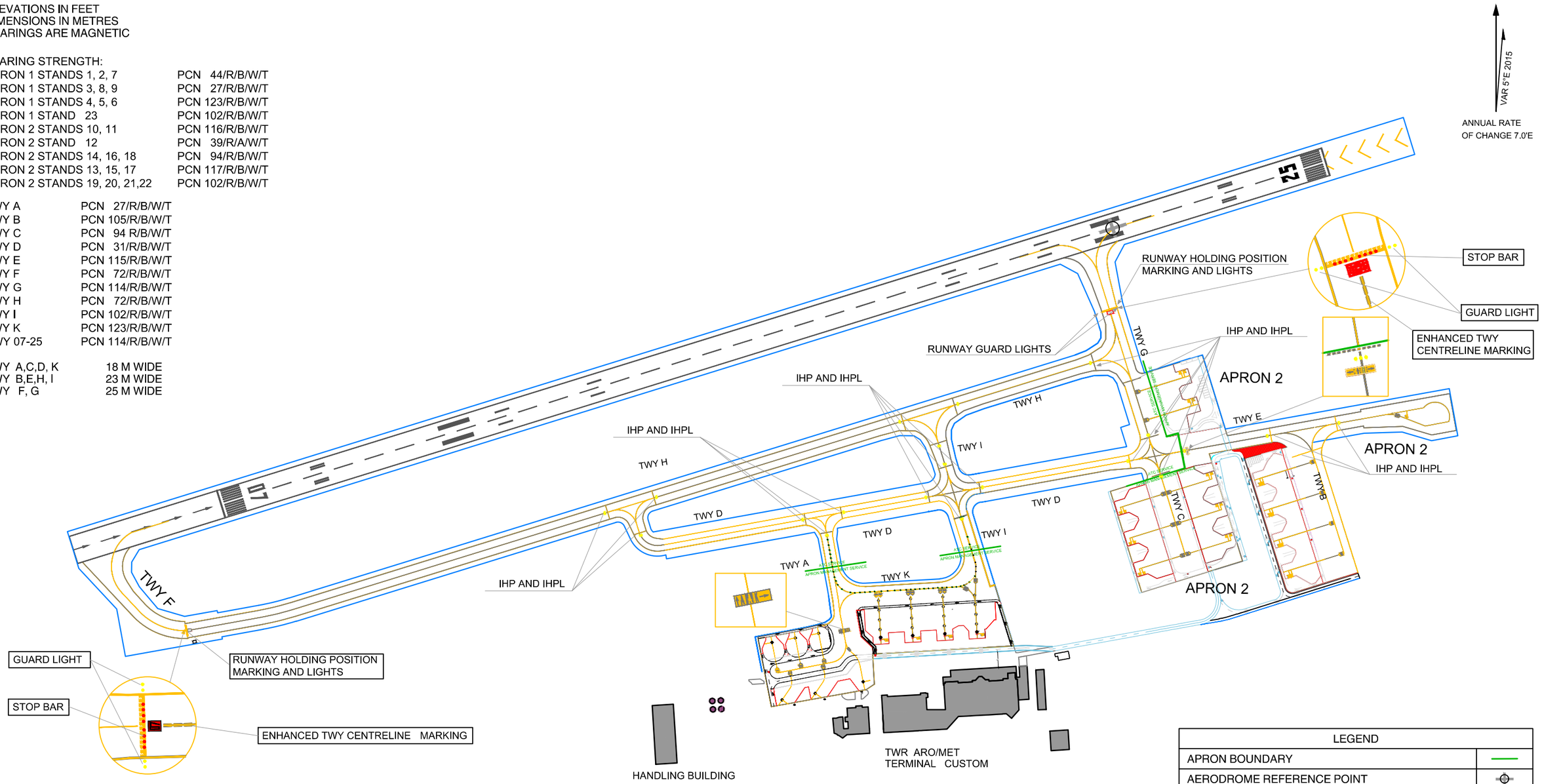
ELEVATIONS IN FEET
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC

BEARING STRENGTH:

APRON 1 STANDS 1, 2, 7	PCN 44/R/B/W/T
APRON 1 STANDS 3, 8, 9	PCN 27/R/B/W/T
APRON 1 STANDS 4, 5, 6	PCN 123/R/B/W/T
APRON 1 STAND 23	PCN 102/R/B/W/T
APRON 2 STANDS 10, 11	PCN 116/R/B/W/T
APRON 2 STAND 12	PCN 39/R/A/W/T
APRON 2 STANDS 14, 16, 18	PCN 94/R/B/W/T
APRON 2 STANDS 13, 15, 17	PCN 117/R/B/W/T
APRON 2 STANDS 19, 20, 21,22	PCN 102/R/B/W/T

TWY A	PCN 27/R/B/W/T
TWY B	PCN 105/R/B/W/T
TWY C	PCN 94 R/B/W/T
TWY D	PCN 31/R/B/W/T
TWY E	PCN 115/R/B/W/T
TWY F	PCN 72/R/B/W/T
TWY G	PCN 114/R/B/W/T
TWY H	PCN 72/R/B/W/T
TWY I	PCN 102/R/B/W/T
TWY K	PCN 123/R/B/W/T
RWY 07-25	PCN 114/R/B/W/T

TWY A,C,D, K	18 M WIDE
TWY B,E,H, I	23 M WIDE
TWY F, G	25 M WIDE



METERS
300 175 50 0 500 1000

FEET
750 500 250 0 1000 2000 3000

LEGEND	
APRON BOUNDARY	
AERODROME REFERENCE POINT	
PAVED AREA EDGE	
TAXIWAY / TAXILANE GUIDANCE LINES	
RUNWAY HOLDING POSITION	
INTERMEDIATE HOLDING POSITION MARKING (IHP)	
APRON SAFETY LINES	
INTERMEDIATE HOLDING POSITION LIGHTS (IHPL)	
RUNWAY GUARD LIGHTS	
BUILDING	
STOP BAR	
NO PARKING AREA	

AIRCRAFT PARKING / DOCKING CHART - ICAO

APRON 1 ELEV
1026 FT

CLUJ TOWER	118.705
CLUJ TOWER ALTN	134.400
CLUJ ATIS	125.525

CLUJ NAPOCA / Avram Iancu (LRCL)
APRON 1

LEGEND	
TO AIRCRAFT STAND	6
FLOODLIGHT	
AIRCRAFT STAND	1
INS CHECK POINTS	
TAXI GUIDANCE LINES	(yellow)
BUILDING	
APRON SAFETY LINES	
APRON BOUNDARY	
AIRCRAFT STAND MANOEUVRING GUIDANCE LIGHT	
TWY CENTRE LINE / EDGE LIGHTS	
HANDLING ROAD	
PAVED AREA EDGE	

Stand no.	Aircraft	Maximum Aircraft Type
1 - 2	Aircraft with wingspan < 25m (Code letter C)	ATR - 42/ SAAB 2000
3	Aircraft with wingspan < 20m (Code letter B)	Cessna Citation V
4 - 6	Aircraft with wingspan < 36m (Code letter C)	A321
7 - 9	Aircraft with wingspan < 28m (Code letter C)	ATR 72
23	Aircraft with wingspan < 36m (Code letter C)	A321

INS COORDINATES FOR AIRCRAFT STAND:

INS 1	45°05'31.35"N	026°06'56.06"E
INS 2	45°05'32.52"N	026°06'56.41"E
INS 3	45°05'33.70"N	026°06'56.76"E
INS 4	46°47'00.36"N	023°41'15.17"E
INS 5	46°47'00.48"N	023°41'17.52"E
INS 6	46°47'00.60"N	023°41'19.87"E
INS 7	45°05'31.90"N	026°06'51.99"E
INS 8	45°05'33.56"N	026°06'52.48"E
INS 9	45°05'35.97"N	026°06'53.36"E
INS 23	46°47'00.72"N	023°41'22.22"E

BEARING STRENGTH:

STANDS 1, 2, 7	PCN 44/R/B/W/T
STANDS 3, 8, 9	PCN 27/R/B/W/T
STANDS 4, 5, 6	PCN 123/R/B/W/T
STAND 23	PCN 102/R/B/W/T
TWY A	PCN 27/R/B/W/T
TWY I	PCN 102/R/B/W/T
TWY K	PCN 123/R/B/W/T
TWY A, K	18 M WIDE
TWY I	23 M WIDE

VAR 5°E 2015
ANNUAL RATE
OF CHANGE 7.0'E

TWY A
TWY K
TWY I
ATC SERVICE
APRON MANAGEMENT SERVICE
ATC SERVICE
APRON MANAGEMENT SERVICE
TERMINAL
TERMINAL
TERMINAL

WARNING: FLOODLIGHTS POLE CLOSE TO STANDS 7-9.

METRES
20 10 0 25 50 75 100
75 50 25 0 100 200 300
FEET

Changes: Chart revised.

AIRCRAFT PARKING / DOCKING CHART - ICAO

APRON 2 ELEV
1026 FT

CLUJ TOWER	118.705
CLUJ TOWER ALTN	134.400
CLUJ ATIS	125.525

CLUJ NAPOCA / Avram Iancu (LRCL)
APRON 2

Changes: PCN revised.

INS COORDINATES FOR AIRCRAFT STANDS:

INS 10	46°47'13.65"N	023°41'36.81"E
INS 11	46°47'12.24"N	023°41'37.49"E
INS 12	46°47'12.23"N	023°41'53.54"E
INS 13	46°47'08.61"N	023°41'39.20"E
INS 14	46°47'07.14"N	023°41'32.65"E
INS 15	46°47'07.07"N	023°41'39.94"E
INS 16	46°47'05.60"N	023°41'33.39"E
INS 17	46°47'05.54"N	023°41'40.68"E
INS 18	46°47'04.06"N	023°41'34.12"E
INS 19	46°47'08.71"N	023°41'42.85"E
INS 20	46°47'07.17"N	023°41'43.59"E
INS 21	46°47'05.64"N	023°41'44.34"E
INS 22	46°47'04.10"N	023°41'45.08"E

TWY C,D	18 M WIDE
TWY B,E,H	23 M WIDE
TWY G	25 M WIDE

VAR 5°E 2015
ANNUAL RATE
OF CHANGE 7.0'E

Stand no.	Aircraft	Maximum Aircraft Type
10 - 22	Aircraft with wingspan < 36m (Code letter C)	A321 / B737-800W

BEARING STRENGTH:

STANDS 10, 11	PCN 116/R/B/W/T
STAND 12	PCN 39/R/A/W/T
STANDS 14, 16, 18	PCN 94/R/B/W/T
STANDS 13, 15, 17	PCN 117/R/B/W/T
STANDS 19, 20, 21,22	PCN 102/R/B/W/T

TWY B	PCN 105/R/B/W/T
TWY C	PCN 94 R/B/W/T
TWY D	PCN 31/R/B/W/T
TWY E	PCN 115/R/B/W/T
TWY G	PCN 114/R/B/W/T
TWY H	PCN 72/R/B/W/T

At all stands aircraft parking will be performed with marshaller assistance.

Exit with push-back and marshaller assistance.

LEGEND	
APRON BOUNDARY	
AIRCRAFT STAND MANOEUVRING GUIDANCE LIGHT	
FLOODLIGHT	
TO AIRCRAFT STAND	16
TAXI GUIDANCE LINES	
APRON SAFETY LINES	
INTERMEDIATE HOLDING POSITION	
TWY CENTRE LINE / EDGE LIGHTS	
INS CHECK POINTS	
INTERMEDIATE HOLDING POSITION LIGHTS (IHPL)	

METRES
20 10 0 25 50 75 100
75 50 25 0 100 200 300
FEET

AERODROME ELEV. 348 ft

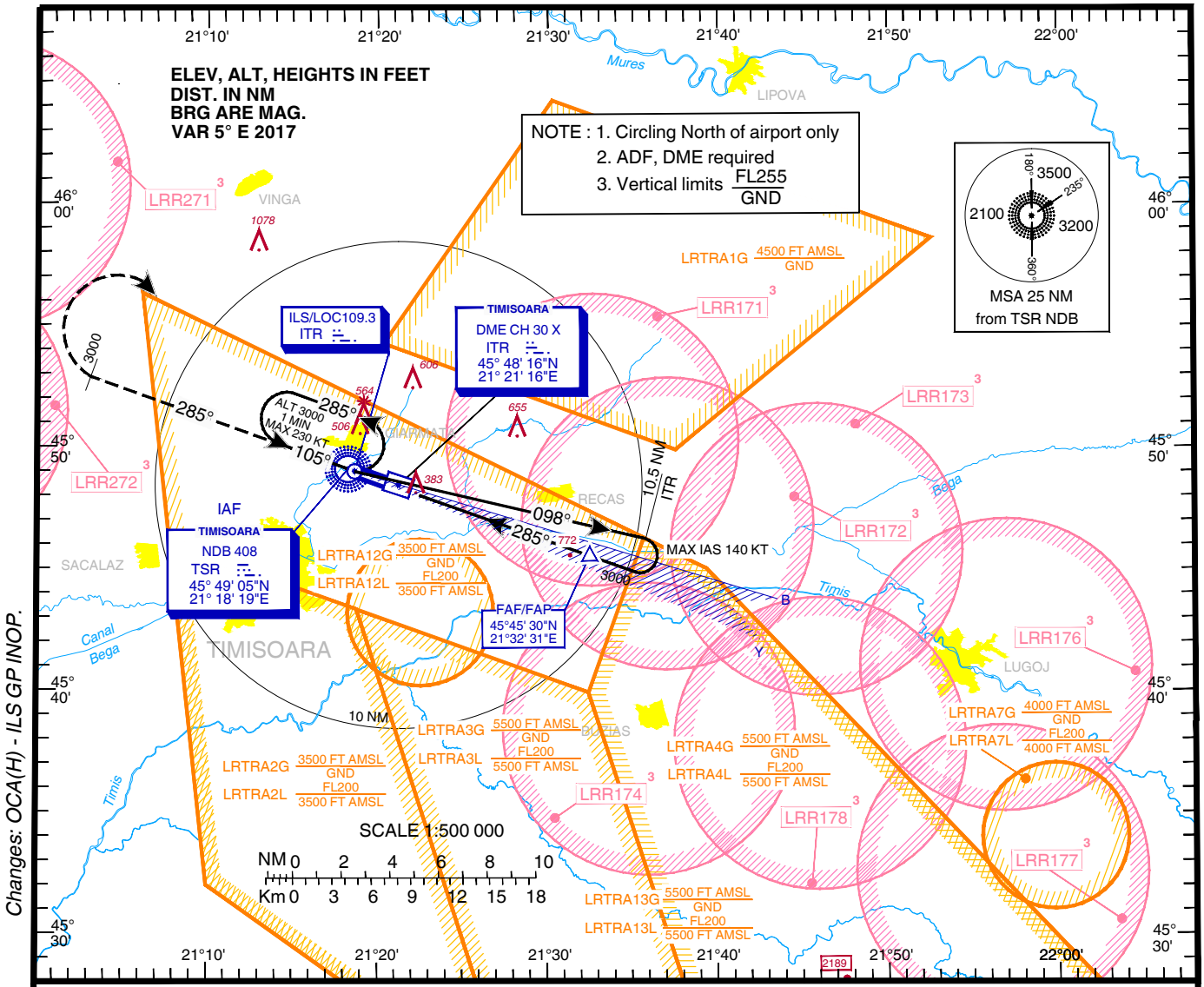
TIMIŞOARA / Traian Vuia (LRTR)

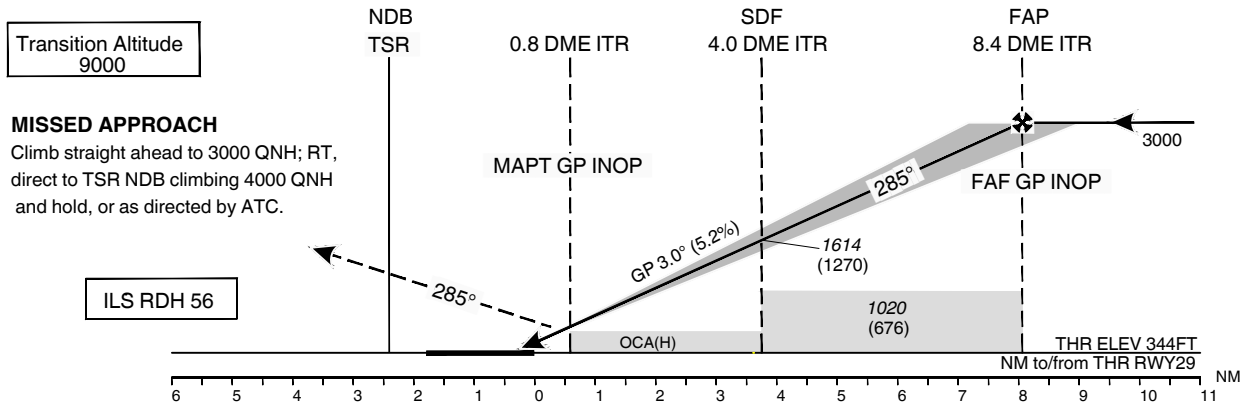
INSTRUMENT APPROACH CHART - ICAO

HEIGHTS RELATED TO THR RWY 29 - ELEV 344

ARAD APPROACH	123.530
ARAD APPROACH ALTN	126.350
TIMISOARA TOWER	120.105
TIMISOARA TOWER ALTN	129.450
TIMISOARA ATIS	123.125

ILS
RWY 29
CAT A, B





OCA(H)		A	B
Straight-in Approach	ILS CAT I	531 (187)	544 (200)
	ILS CAT II	443 (99)	461 (117)
	ILS GP INOP	640 (296)	
Circling		810	860

GS	kts	70	90	100	120
FAF - MAPT 7.55 NM	min:s	6:28	5:02	4:32	3:46
Rate of descent (5.2%)	ft/min	372	478	531	637

Dist to ITR DME	NM	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Dist to THR 29	NM	0.8	1.8	2.8	3.8	4.8	5.8	6.8	7.8
Altitude (Height)	FT	659 (315)	977 (633)	1296 (952)	1614 (1270)	1933 (1589)	2251 (1907)	2570 (2226)	2888 (2544)

CAT IIIA approved

Timing not authorised for defining MAPt.

For data tabulation see verso

TIMISOARA / Traian Vuia (LRTR)
ILS RWY 29, CAT A, B

AERONAUTICAL DATA TABULATION

ILS Approach to RWY 29, CAT A, B	
Fix/Point	**Coordinates**
TSR NDB (IAF)	45°49'04.7"N 021°18'19.5"E
ITR LOC	45°48'59.1"N 021°18'42.0"E
ITR DME	45°48'16.2"N 021°21'15.7"E
10.5 D ITR – BRG 097.57°TSR NDB	45°46'17.9"N 021°35'48.8"E
FAF/FAF - BRG 284.54° / D 8.35 ITR	45°45'30.3"N 021°32'30.8"E
SDF – BRG 284.56° / D 4.00 ITR	45°46'58.7"N 021°26'40.4"E
MAPt – BRG 284.56° / D 0.80 ITR	45°°48'03.8"N 021°22'22.0"E
THR RWY 29	45°48'16.24"N 021°21'32.61"E

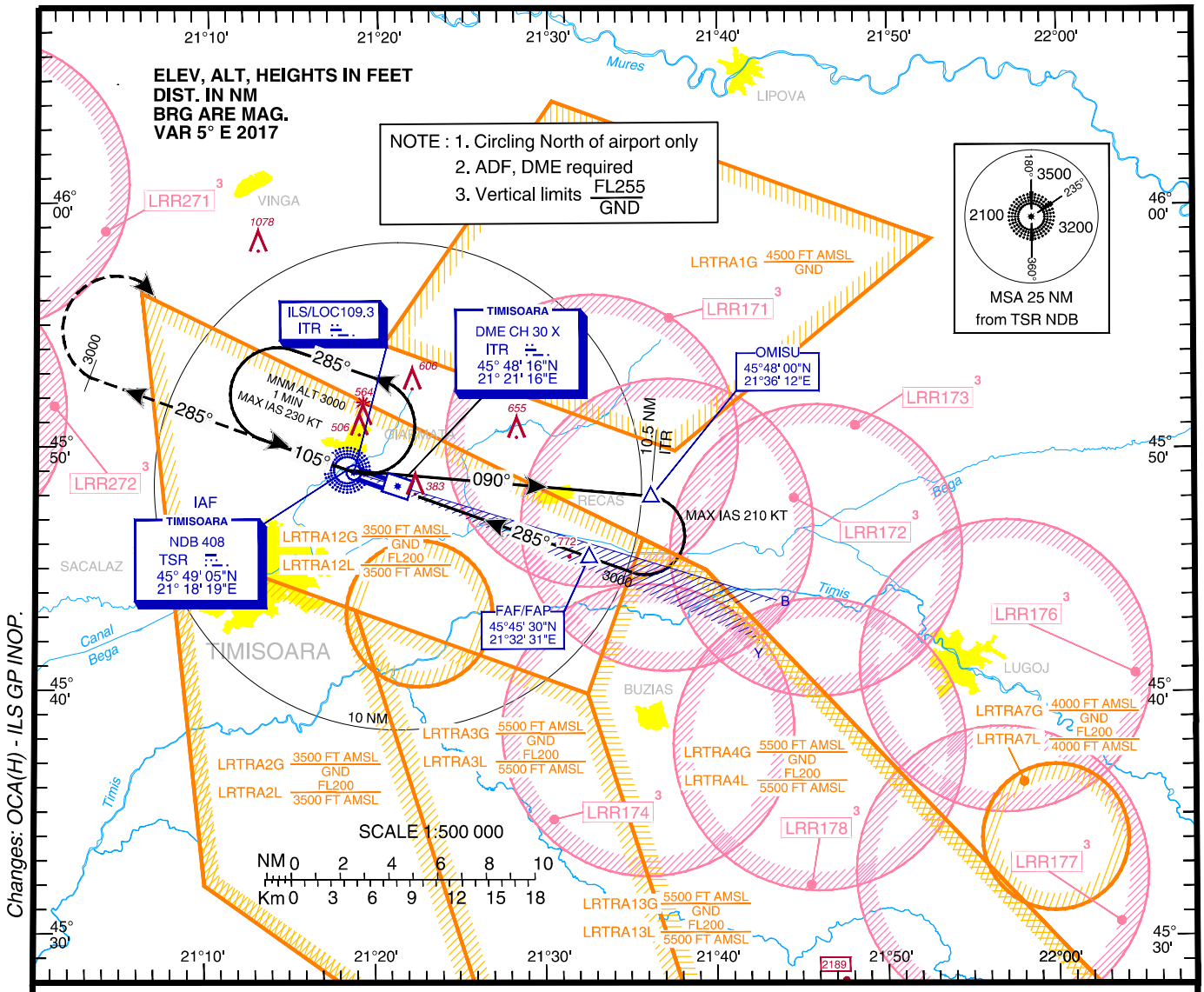
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. **348 ft**

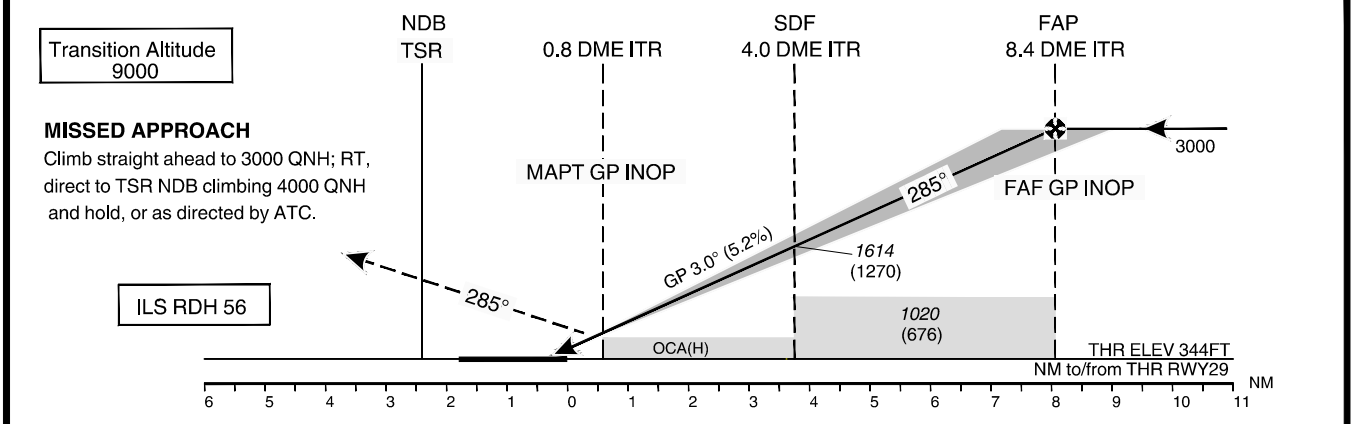
HEIGHTS RELATED TO
THR RWY 29 - ELEV 344

ARAD APPROACH	123.530
ARAD APPROACH ALTN	126.350
TIMISOARA TOWER	120.105
TIMISOARA TOWER ALTN	129.450
TIMISOARA ATIS	123.125

TIMIŞOARA / Traian Vuia (LRTR)
ILS
RWY 29
CAT C, D



Changes: OCA(H) - ILS GP INOP.



OCA(H)		C	D
Straight-in Approach	ILS CAT I	552 (208)	562 (218)
	ILS CAT II	472 (128)	487 (143)
	ILS GP INOP	640 (296)	
Circling		1000	1050

CAT IIIA approved

GS	kts	100	120	140	160
FAF - MAPT 7.55 NM	min:s	4:32	3:46	3:14	2:50
Rate of descent	ft/min	531	637	743	849

Dist to ITR DME	NM	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Dist to THR 29	NM	0.8	1.8	2.8	3.8	4.8	5.8	6.8	7.8
Altitude (Height)	FT	659 (315)	977 (633)	1296 (952)	1614 (1270)	1933 (1589)	2251 (1907)	2570 (2226)	2888 (2544)

Timing not authorised for defining MAPt.

For data tabulation see verso

TIMISOARA / Traian Vuia (LRTR)
ILS RWY 29, CAT C, D

AERONAUTICAL DATA TABULATION

ILS Approach to RWY 29, CAT C, D	
Fix/Point	**Coordinates**
TSR NDB (IAF)	45°49’04.7”N 021°18’19.5”E
ITR LOC	45°48’59.1”N 021°18’42.0”E
ITR DME	45°48’16.2”N 021°21’15.7”E
OMISU – BRG 089.89° TSR NDB	45°47’59.6”N 021°36’12.1”E
FAF/FAP – BRG 284.54° / D 8.35 ITR	45°45’30.3”N 021°32’30.8”E
SDF – BRG 284.56° / D 4.00 ITR	45°46’58.7”N 021°26’40.4”E
MAPt – BRG 284.56° / D 0.80 ITR	45°48’03.8”N 021°22’22.0”E
THR RWY 29	45°48’16.24”N 021°21’32.61”E

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV. **348 ft**

HEIGHTS RELATED TO AD ELEV.

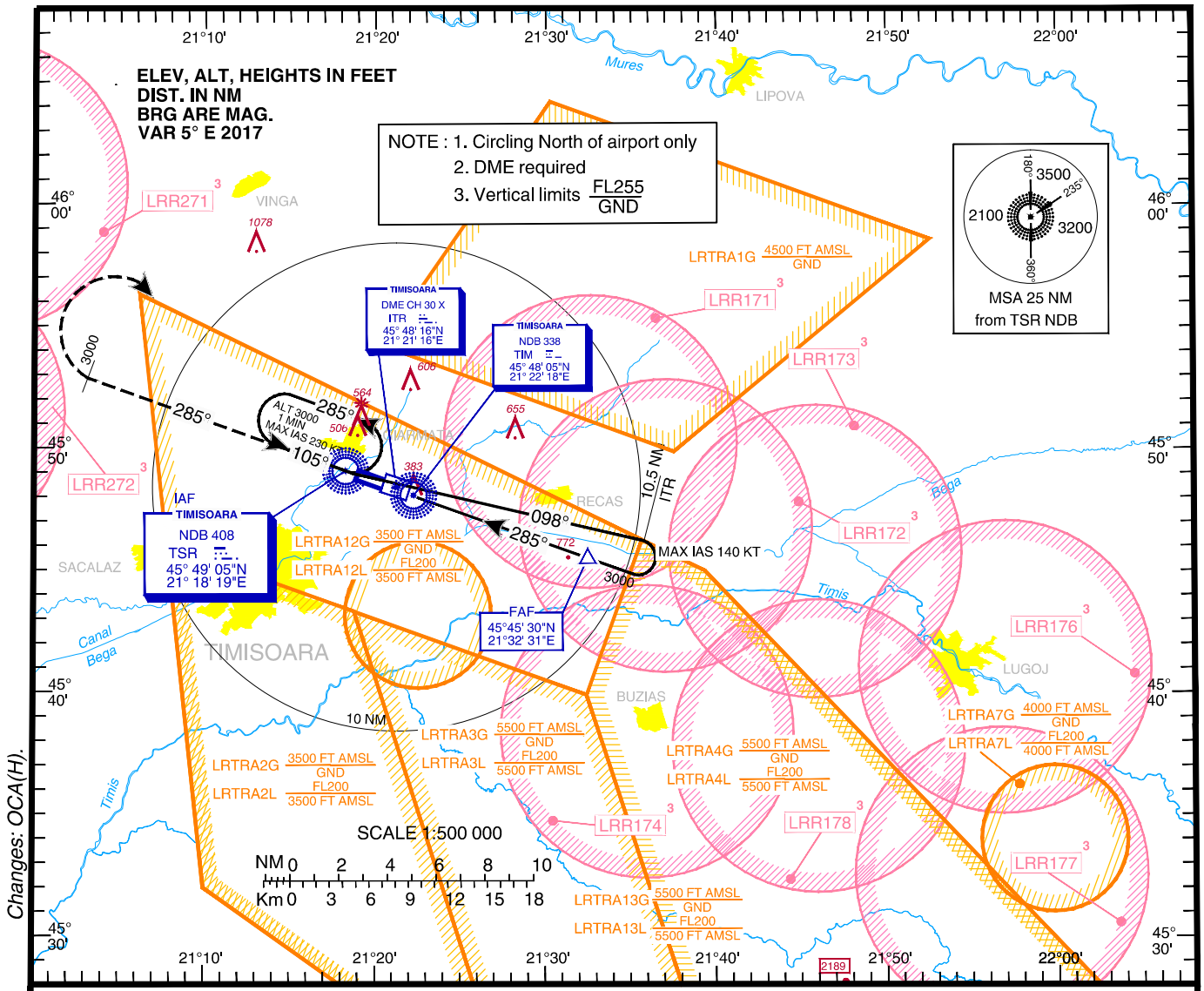
TIMIŞOARA / Traian Vuia (LRTR)

NDB

RWY 29

CAT A, B

ARAD APPROACH	123.530
ARAD APPROACH ALTN	126.350
TIMISOARA TOWER	120.105
TIMISOARA TOWER ALTN	129.450
TIMISOARA ATIS	123.125

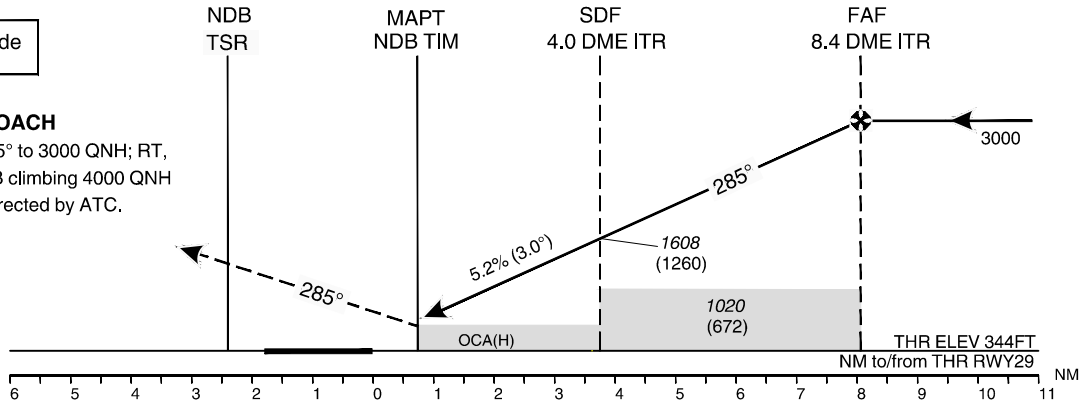


Changes: OCA(H).

Transition Altitude 9000

MISSED APPROACH

Climb on track 285° to 3000 QNH; RT, direct to TSR NDB climbing 4000 QNH and hold, or as directed by ATC.



OCA(H)	A	B
Straight-in Approach	670 (322)	
Circling	810	860

GS	kts	70	90	100	120
FAF - MAPT 7.6 NM	min:s	6:30	5:04	4:33	3:48
Rate of descent (5.2%)	ft/min	372	478	531	637

Dist to ITR DME	NM	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Dist to THR 29	NM	0.8	1.8	2.8	3.8	4.8	5.8	6.8	7.8
Altitude (Height)	FT	653 (305)	971 (623)	1290 (942)	1608 (1260)	1927 (1579)	2245 (1897)	2564 (2216)	2882 (2534)

Timing not authorised for defining MAPt.

For data tabulation see verso

TIMISOARA / Traian Vuia (LRTR)
NDB RWY 29, CAT A, B

AERONAUTICAL DATA TABULATION

NDB Approach to RWY 29, CAT A, B	
Fix/Point	**Coordinates**
TSR NDB (IAF)	45°49'04.7"N 021°18'19.5"E
TIM NDB (MAPt)	45°48'04.7"N 021°22'18.4"E
ITR DME	45°48'16.2"N 021°21'15.7"E
10.5 D ITR – BRG 097.57° TSR NDB	45°46'17.9"N 021°35'48.8"E
FAF – BRG 284.54° TSR NDB / D 8.35 ITR	45°45'30.3"N 021°32'30.8"E
SDF - BRG 284.56° TSR NDB / D 4.00 ITR	45°46'58.7"N 021°26'40.4"E
THR RWY 29	45°48'16.24"N 021°21'32.61"E

Final approach descent angle: 3.00**º**

AERODROME ELEV. 348 ft

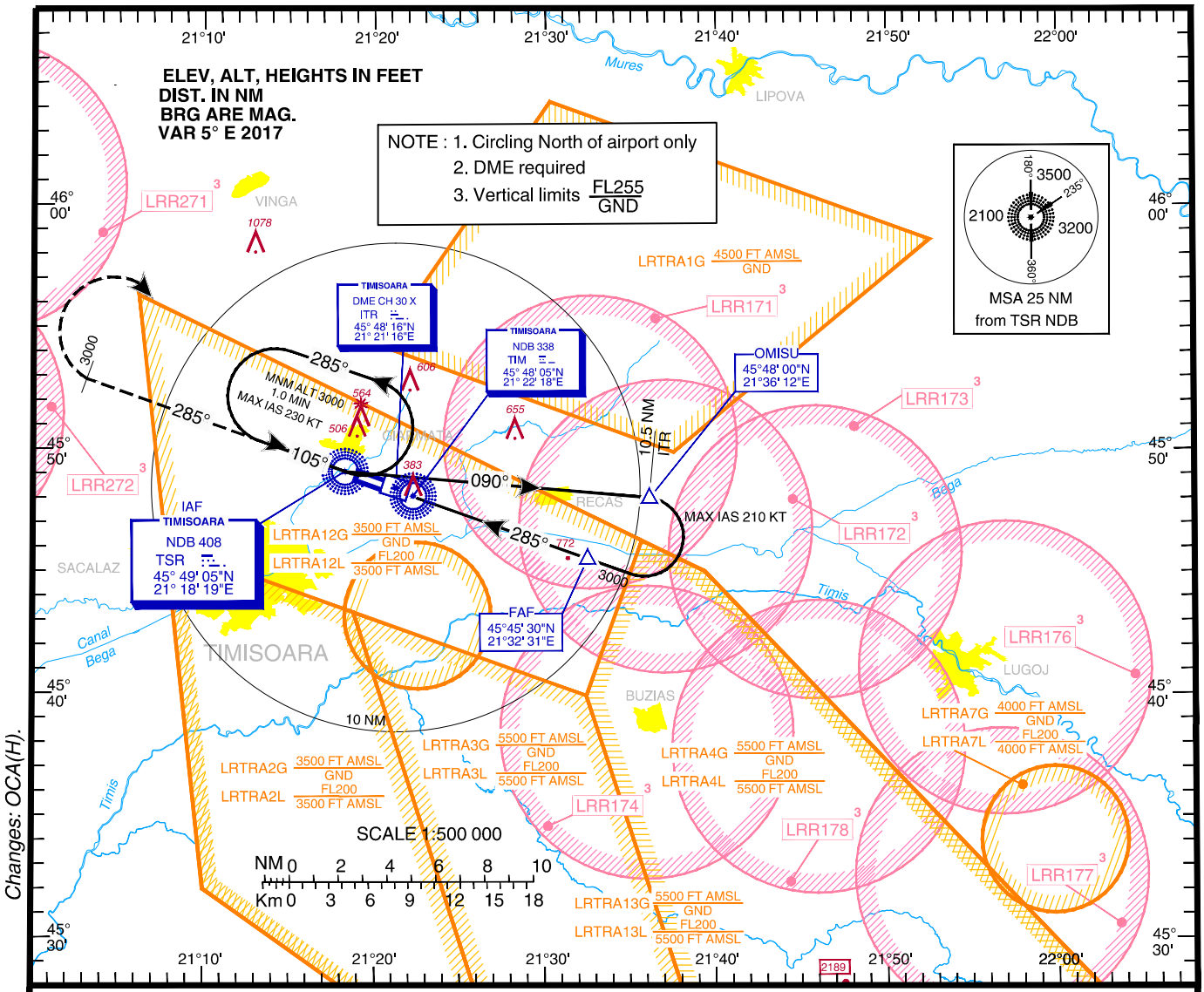
INSTRUMENT APPROACH CHART - ICAO

HEIGHTS RELATED TO AD ELEV.

TIMIŞOARA / Traian Vuia (LRTR)

NDB
RWY 29
CAT C, D

ARAD APPROACH	123.530
ARAD APPROACH ALTN	126.350
TIMISOARA TOWER	120.105
TIMISOARA TOWER ALTN	129.450
TIMISOARA ATIS	123.125

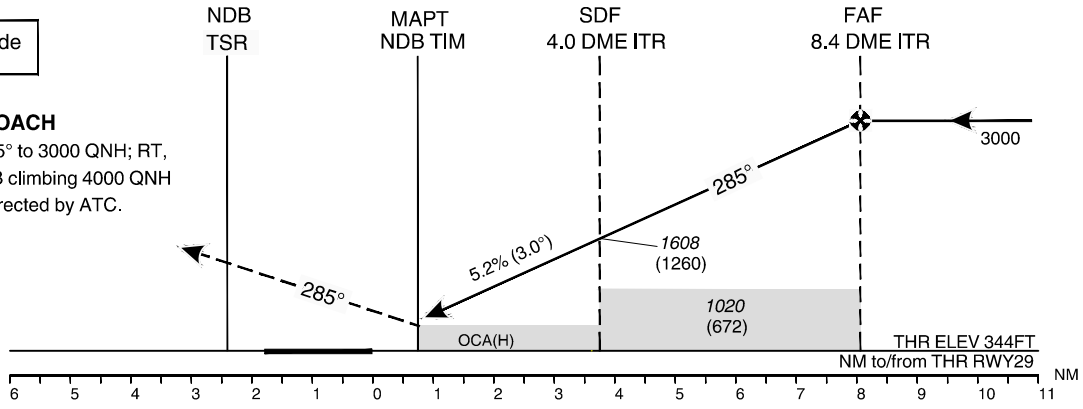


Changes: OCA(H).

Transition Altitude 9000

MISSED APPROACH

Climb on track 285° to 3000 QNH; RT, direct to TSR NDB climbing 4000 QNH and hold, or as directed by ATC.



OCA(H)	C	D
Straight-in Approach	670 (322)	
Circling	1000	1050

GS	kts	100	120	140	160
FAF - MAPT 7.6 NM	min:s	4:33	3:48	3:15	2:51
Rate of descent	ft/min	531	637	743	849

Dist to ITR DME	NM	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Dist to THR 29	NM	0.8	1.8	2.8	3.8	4.8	5.8	6.8	7.8
Altitude (Height)	FT	653 (305)	971 (623)	1290 (942)	1608 (1260)	1927 (1579)	2245 (1897)	2564 (2216)	2882 (2534)

Timing not authorised for defining MAPt.

For data tabulation see verso

TIMISOARA / Traian Vuia (LRTR)
NDB RWY 29, CAT C, D

AERONAUTICAL DATA TABULATION

NDB Approach to RWY 29, CAT C, D	
Fix/Point	**Coordinates**
TSR NDB (IAF)	45°49'04.7"N 021°18'19.5"E
TIM NDB (MAPt)	45°48'04.7"N 021°22'18.4"E
ITR DME	45°48'16.2"N 021°21'15.7"E
OMISU - BRG 089.89° TSR NDB	45°47'59.6"N 021°36'12.1"E
FAF – BRG 284.54° TSR NDB / D 8.35 ITR	45°45'30.3"N 021°32'30.8"E
SDF - BRG 284.56° TSR NDB / D 4.00 ITR	45°46'58.7"N 021°26'40.4"E
THR RWY 29	45°48'16.24"N 021°21'32.61"E

Final approach descent angle: 3.00**º**

LRTZ AD 2.1 AERODROME LOCATION INDICATOR AND NAME
LRTZ - TUZLA / Tuzla

LRTZ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	*ARP coordinates and site at AD*	435903N 0283635E / 344º GEO / 8 M from H34
2	*Direction and distance from city*	12 NM South Constanţa
3	*Elevation/Reference temperature/Mean low temperature*	167 FT / 23.6°C / -13.2° C
4	*Geoid undulation at AD ELEV PSN*	112 FT
5	*MAG VAR/ Annual rate of change*	7°E (2025) / 7.2' E
6	*AD Operator, address, telephone, telefax, e-mail, AFS, website*	SC REGIONAL AIR SERVICES SRL Tuzla-Aerodrom Tuzla, Com. Tuzla, Jud. Constanţa Tel: +40-(0)241-694402, +40-(0)742-055096 Fax: +40-(0)241-733450 AFS: LRTZADYD SITA: - e-mail: aeroport@regional-air.ro office@regional-air.ro web: www.regional-air.ro
7	*Types of traffic permitted (IFR/VFR)*	VFR
8	*Remarks*	NIL

LRTZ AD 2.3 OPERATIONAL HOURS

1	*AD Operator*	MON-FRI W: 0600-1430 S: 0500-1330
2	*Customs and immigration*	NIL
3	*Health and sanitation*	NIL
4	*AIS Briefing Office*	NIL
5	*ATS Reporting Office (ARO)*	NIL
6	*MET Briefing Office*	NIL
7	*ATS*	NIL
8	*Fuelling*	As AD Operator
9	*Handling*	As AD Operator
10	*Security*	H24
11	*De-icing*	NIL
12	*Remarks*	PPR Requests shall be received by the AD during the regular duty hours from MON-FRI W: 0600-1430 S: 0500-1330 on the email address: aeroport@regional-air.ro. For operators flying to LRTZ on a regular basis, multiple ARR/DEP PPR can be issued.

LRTZ AD 2.4 HANDLING SERVICES AND FACILITIES

1	*Cargo-handling facilities*	Truck 1500Kg and minivan for passengers.
2	*Fuel/Oil types*	JET A1 AVGAS
3	*Fuelling facilities/capacity*	JET A1: 1 fuel truck 4700 l, 2 x 60 m^3 fuel tanks. AVGAS: 1 fuel truck 950 l, one 10 m^3 fuel tank.
4	*De-icing facilities*	NIL
5	*Hangar space for visiting aircraft*	1200 m^2, maximum height 6 m
6	*Repair facilities for visiting aircraft*	An-2, Ka-26, PZL 104 WILGA Diamond DA20; DA40; DA42
7	*Remarks*	OPC (Operational Control) on 131.480 not available for ATS.

LRTZ AD 2.5 PASSENGER FACILITIES

1	*Hotels*	Hotels in the city.
2	*Restaurants*	Restaurant on the AD (MON-SAT W: 0700-1600 S: 0600-1500).
3	*Transportation*	Minibus at AD, taxis from the city.
4	*Medical facilities*	First aid at AD. Hospitals in the city.
5	*Bank and Post Office*	In the city.
6	*Tourist Office*	In the city
7	*Remarks*	NIL

LRTZ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	*AD category for fire fighting*	Within AD HR: CAT 4.
2	*Rescue equipment*	Two fire trucks, foam, and dry chemical powder, Holmatro extrication tools, Webber hydraulic extrication tools.
3	*Capability for removal of disabled aircraft*	Cranes AVBL via contractor. Towing equipment available only for helicopters. Local Action Coordinator: +40-(0)751-201662 - for substitute: +40-(0)749-550959 e-mail: aeroport@regional-air.ro
4	*Remarks*	NIL

LRTZ AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	*Types of clearing equipment*	2 trucks with plugs, spreader for liquid/solid de-icing materials
2	*Clearance priorities*	1. RWY 04/22 2. TWY A, C 3. Apron
3	*Use of material for movement area surface treatment*	Runway de-icer liquid used for RWY,TWYs, and APRON de-icing is based on potassium formate (KFOR)
4	*Specially prepared winter runways*	NIL
5	*Remarks*	Information on RWY surface condition in Global Reporting Format is published by SNOWTAM. Other information on the progress of the snow removal and the conditions of the movement area: Tel.: +40-(0)751-201662. See also the snow plan in section AD 1.2.2.

LRTZ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	*Apron designation, surface and strength*	Designation: APRON Surface: Concrete Strength: 11/R/C/W/T
2	*Taxiway designation, width, surface and strength*	Width: TWY A, B, C, C*: 11M TWY D, E : 8M Surface: TWY A, B, C, D: Asphalt TWY C*, E: Concrete Strength: TWY A, B, C, D: 15/F/C/W/T TWY C*: 14/R/C/W/T TWY E: 11/R/C/W/T
3	*ACL location and elevation*	Location: Apron Elevation: 158 FT
4	*VOR checkpoints*	NIL
5	*INS checkpoints*	NIL
6	*Remarks*	NIL

LRTZ AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	*Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands*	Taxiing guidance signs at all intersections with TWY and RWY and at all holding positions. Guide lines at apron. Self parking procedures: Stop aircraft at yellow when STOP marking is in line pilot eye at an angle of 90º to the lead in line. Contingency procedures: parking guidance can be provided by marshaller in case of abnormal situation.
2	*RWY and TWY markings and LGT*	RWY: - markings: color white - designation, THR, TDZ, aiming point, centre line, edge lines. - lights: THR, edge, END. TWY: - markings: color yellow - centre line, enhanced centre line, edge lines, holding position, mandatory instructions markings, information markings. - lights: blue edge, guard lights (LIH) at Runway Holding Positions (RHP) on TWY A, TWY B, TWY C and on TWY D.
3	*Stop bars and runway guard lights*	NIL
4	*Other RWY protection measure*	NIL
5	*Remarks*	NIL

LRTZ AD 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/ Designation	*OBST type*	*OBST position*	*ELEV/HGT*	*Markings/ Type, colour*	*Remarks*
a	b	c	d	e	f
LRTZ_11	WINDMILL	435240.5N 0282921.1E	689/501 FT	LGTD	NIL
LRTZ_12	WINDMILL	435241.2N 0282941.6E	687/501 FT	LGTD	
LRTZ_22	WINDMILL	440612.6N 0281451.9E	927/513 FT	LGTD	

a	b	c	d	e	f
LRTZ_23	POLE	440713.1N 0281209.7E	790/342 FT	NIL	NIL
LRTZ_25	POLE	435321.1N 0280825.1E	829/328 FT	NIL	
LRTZ_26	WINDMILL	435327.9N 0280833.6E	999/474 FT	LGTD	
LRTZ_37	ANTENNA	434838.9N 0283451.0E	438/420 FT	NIL	
LRTZ_43	ANTENNA	440955.8N 0283810.7E	435/329 FT	NIL	
LRTZ_48	STACK	442012.1N 0283829.6E	559/540 FT	NIL	
LRTZ_49	STACK	442017.4N 0283833.9E	507/490 FT	NIL	
LRTZ_51	ANTENNA	441038.6N 0282443.3E	434/346 FT	NIL	
LRTZ_52	STACK	440931.4N 0283627.0E	995/818 FT	NIL	
LRTZ_53	WINDMILL	440618.5N 0281353.5E	928/513 FT	LGTD	
LRTZ_54	WINDMILL	440538.7N 0281328.6E	925/513 FT	LGTD	
LRTZ_55	WINDMILL	440714.8N 0281218.4E	950/513 FT	LGTD	
LRTZ_56	WINDMILL	440701.6N 0281434.2E	948/513 FT	LGTD	
LRTZ_57	WINDMILL	440646.0N 0281341.9E	948/513 FT	LGTD	
LRTZ_58	WINDMILL	440648.9N 0281314.7E	947/513 FT	LGTD	
LRTZ_59	WINDMILL	440651.7N 0281247.6E	956/513 FT	LGTD	
LRTZ_60	WINDMILL	440808.3N 0281356.8E	894/513 FT	LGTD	
LRTZ_61	WINDMILL	440816.7N 0281334.6E	913/513 FT	LGTD	
LRTZ_62	WINDMILL	440831.4N 0281321.0E	892/513 FT	LGTD	
LRTZ_63	WINDMILL	440855.7N 0281324.0E	878/513 FT	LGTD	
LRTZ_64	WINDMILL	440919.4N 0281324.6E	840/513 FT	LGTD	
LRTZ_65	WINDMILL	435250.5N 0281125.5E	968/509 FT	LGTD	
LRTZ_66	WINDMILL	435234.8N 0281125.2E	965/509 FT	LGTD	
LRTZ_67	WINDMILL	435313.2N 0281121.8E	984/509 FT	LGTD	
LRTZ_68	WINDMILL	435325.1N 0281122.0E	988/509 FT	LGTD	
LRTZ_69	WINDMILL	435335.9N 0281103.4E	986/509 FT	LGTD	
LRTZ_70	WINDMILL	435349.0N 0281103.4E	971/509 FT	LGTD	
LRTZ_72	WINDMILL	435321.9N 0281050.8E	1002/509 FT	LGTD	
LRTZ_73	WINDMILL	435325.4N 0281034.1E	982/509 FT	LGTD	
LRTZ_74	WINDMILL	435313.8N 0281034.4E	1004/509 FT	LGTD	
LRTZ_75	WINDMILL	435249.3N 0281032.0E	1009/509 FT	LGTD	
LRTZ_76	WINDMILL	435234.1N 0281032.4E	1000/509 FT	LGTD	
LRTZ_77	WINDMILL	435331.9N 0280932.5E	1017/509 FT	LGTD	
LRTZ_78	WINDMILL	435344.8N 0280932.7E	1004/509 FT	LGTD	
LRTZ_79	WINDMILL	435356.3N 0280941.5E	1002/509 FT	LGTD	
LRTZ_80	WINDMILL	435410.2N 0280955.6E	1005/509 FT	LGTD	
LRTZ_81	WINDMILL	435414.8N 0280932.0E	977/509 FT	LGTD	
LRTZ_82	WINDMILL	435426.2N 0280910.9E	998/509 FT	LGTD	
LRTZ_83	WINDMILL	435405.2N 0280858.1E	1028/509 FT	LGTD	
LRTZ_84	WINDMILL	435350.7N 0280908.3E	1023/509 FT	LGTD	
LRTZ_85	WINDMILL	435356.0N 0280840.1E	1029/509 FT	LGTD	
LRTZ_86	WINDMILL	435406.7N 0280824.9E	1019/509 FT	LGTD	
LRTZ_87	WINDMILL	435415.2N 0280808.0E	1009/509 FT	LGTD	
LRTZ_88	WINDMILL	435342.4N 0280824.8E	1032/509 FT	LGTD	
LRTZ_89	WINDMILL	435354.9N 0280810.6E	996/509 FT	LGTD	
LRTZ_90	WINDMILL	435312.1N 0280826.4E	1011/509 FT	LGTD	
LRTZ_91	WINDMILL	435327.6N 0280850.0E	1034/509 FT	LGTD	
LRTZ_93	WINDMILL	435335.8N 0280902.2E	1022/509 FT	LGTD	
LRTZ_94	WINDMILL	435311.8N 0280853.7E	1026/509 FT	LGTD	
LRTZ_95	WINDMILL	435259.1N 0280845.2E	1025/509 FT	LGTD	
LRTZ_96	WINDMILL	435301.3N 0280910.1E	1027/509 FT	LGTD	
LRTZ_97	WINDMILL	435301.1N 0280930.9E	1029/509 FT	LGTD	
LRTZ_178	POLE	435757.4N 0283300.4E	332/123 FT	NIL	
LRTZ_185	POLE	435750.8N 0283321.3E	320/114 FT	NIL	
LRTZ_188	POLE	435747.3N 0283331.6E	319/114 FT	NIL	
LRTZ_191	POLE	435748.8N 0283342.4E	323/114 FT	NIL	
LRTZ_194	POLE	435750.0N 0283354.8E	319/114 FT	NIL	
LRTZ_198	POLE	435747.6N 0283405.7E	309/114 FT	NIL	
LRTZ_203	POLE	435745.3N 0283416.4E	303/114 FT	NIL	
LRTZ_206	POLE	435743.1N 0283427.4E	291/114 FT	NIL	
LRTZ_208	POLE	435740.1N 0283429.3E	299/123 FT	NIL	
LRTZ_239	POLE	435723.9N 0283504.8E	285/103 FT	NIL	
LRTZ_240	POLE	435721.3N 0283515.1E	286/103 FT	NIL	
LRTZ_259	POLE	435926.5N 0283742.9E	220/115 FT	NIL	
LRTZ_743	CRANE	440627.2N 0283935.0E	362/349 FT	NIL	
LRTZ_763	ANTENNA	440212.5N 0283724.9E	692/677 FT	MARKED/LGTD	
LRTZ_776	ANTENNA	435911.5N 0283701.7E	224/68 FT	MARKED/LGTD	
LRTZ_777	ANTENNA	435906.3N 0283706.1E	220/68 FT	NIL	
LRTZ_778	BUILDING	435907.3N 0283702.4E	198/42 FT	NIL	
LRTZ_779	POLE	435907.8N 0283702.2E	221/66 FT	NIL	
LRTZ_780	ANTENNA	435907.5N 0283702.0E	220/64 FT	NIL	
LRTZ_781	BUILDING	435907.1N 0283701.1E	198/42 FT	NIL	

a	b	c	d	e	f
LRTZ_782	STACK	435905.5N 0283701.6E	231/75 FT	NIL	
LRTZ_783	BUILDING	435908.7N 0283659.6E	195/40 FT	NIL	
LRTZ_784	BUILDING	435907.9N 0283658.0E	189/33 FT	NIL	
LRTZ_785	BUILDING	435908.9N 0283657.0E	180/24 FT	NIL	
LRTZ_786	BUILDING	435909.8N 0283655.6E	181/24 FT	NIL	
LRTZ_787	ANTENNA	435909.6N 0283655.7E	212/55 FT	NIL	
LRTZ_788	ANTENNA	435909.3N 0283655.9E	216/59 FT	NIL	
LRTZ_789	CONTROL_TOWER	435909.2N 0283655.6E	193/36 FT	LGTD	
LRTZ_791	STACK	435910.5N 0283655.3E	187/29 FT	NIL	
LRTZ_792	BUILDING	435911.0N 0283655.6E	173/15 FT	NIL	
LRTZ_793	BUILDING	435911.1N 0283655.2E	173/14 FT	NIL	
LRTZ_794	POLE	435909.9N 0283654.7E	193/35 FT	NIL	
LRTZ_795	POLE	435908.6N 0283655.2E	192/34 FT	NIL	
LRTZ_797	POLE	435907.8N 0283652.6E	231/73 FT	MARKED/LGTD	
LRTZ_798	POLE	435908.4N 0283653.1E	180/22 FT	NIL	
LRTZ_799	BUILDING	435909.2N 0283653.6E	176/19 FT	NIL	
LRTZ_800	BUILDING	435911.2N 0283657.6E	180/22 FT	NIL	
LRTZ_801	POLE	435907.6N 0283645.7E	228/73 FT	MARKED/LGTD	
LRTZ_802	CONTROL_TOWER	435906.1N 0283642.9E	236/82 FT	LGTD	
LRTZ_803	POLE	435906.2N 0283642.7E	247/93 FT	NIL	
LRTZ_804	NAVAID	435903.3N 0283642.3E	173/20 FT	MARKED/LGTD	
LRTZ_805	POLE	435906.1N 0283656.6E	173/16 FT	NIL	
LRTZ_806	POLE	435904.5N 0283657.9E	177/19 FT	NIL	
LRTZ_807	POLE	435905.9N 0283641.7E	167/15 FT	LGTD	
LRTZ_808	POLE	435903.3N 0283641.4E	222/73 FT	MARKED/LGTD	
LRTZ_809	POLE	435904.1N 0283644.5E	223/73 FT	MARKED/LGTD	
LRTZ_810	POLE	435905.3N 0283649.3E	226/73 FT	MARKED/LGTD	

In Area 3					
OBST ID/ Designation	*OBST type*	*OBST position*	*ELEV/HGT*	*Markings/ Type, colour*	*Remarks*
a	b	c	d	e	f
NIL	NIL	NIL	NIL	NIL	NIL

LRTZ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	*Associated MET Office*	NIL
2	*Hours of service* *MET Office outside hours*	NIL
3	*Office responsible for TAF preparation* *Periods of validity*	NIL
4	*Type of landing forecast* *Interval of issuance*	NIL
5	*Briefing / consultation provided*	NIL
6	*Flight documentation* *Language(s) used*	NIL
7	*Charts and other information available for briefing or consultation*	NIL
8	*Supplementary equipment available for providing information*	NIL
9	*ATS units provided with information*	NIL
10	*Additional information (limitation of service, etc.)*	NIL

LRTZ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR coord RWY end coord THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY
1	2	3	4	5	6	7
04	042.70°	900 x 23	15/F/C/W/T Asphalt	435853.51N 0283600.93E 435914.93N 0283628.30E GUND 112 FT	THR 162 FT	0.35% (339) -0.30% (561)
22	222.69°	900 x 23	15/F/C/W/T Asphalt	435914.93N 0283628.30E 435853.51N 0283600.93E GUND 112 FT	THR 161 FT	0.30% (561) -0.35% (339)

SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)	Location and description of ARST system	OFZ	Remarks
8	9	10	11	12	13	14
NIL	NIL	990 x 90	90 x 80	NIL	NIL	NIL
NIL	NIL	990 x 90	90 x 80	NIL	NIL	NIL

LRTZ AD 2.13 DECLARED DISTANCES

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
04	900	900	900	900	NIL
22	900	900	900	900	NIL

LRTZ AD 2.14 APPROACH AND RWY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
04	NIL	Green NIL	PAPI Left/3°	NIL	NIL	660 M, 60M white, LIH; 240M, 60 M, yellow; LIH.	Red NIL	NIL	NIL
22	NIL	Green NIL	PAPI Left/3°	NIL	NIL	660 M, 60M white, LIH; 240M, 60 M, yellow; LIH.	Red NIL	NIL	NIL

LRTZ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN / IBN location, characteristics and hours of operation*	NIL
2	*LDI location and LGT* *Anemometer location and LGT*	NIL TWR Building
3	*TWY edge and centre line lighting*	NIL
4	*Secondary power supply/switch-over time*	3 min.
5	*Remarks*	NIL

LRTZ AD 2.16 HELICOPTER LANDING AREA

1	*Coordinates TLOF or THR of FATO* *Geoid undulation*	H16 435915.94N 0283630.58E GUND 112 FT	H34 435902.74N 0283635.10E GUND 112 FT
2	*TLOF and/or FATO elevation M/FT*	H16 163 FT	H34 150 FT
3	*TLOF and FATO area dimensions, surface, strength, marking*	TLOF/FATO 420 x 18 M Surface: Asphalt Strength: 15/F/C/W/T Marking: edge markers white	
4	*True and MAG BRG of FATO*	H16 166.11°	H34 346.11°
5	*Declared distance available*	TODAH: 420 M; RTODAH: 420 M; LDAH: 420 M	
6	*APP and FATO lighting*	FATO edge LGT 327 M, 47 M white, LIH; 93 M, 47 M yellow, LIH. FATO LGT green; FATO end LGT red	
		H16 – HAPI 8°	H34 – HAPI 8°
7	*Remarks*	FATO of type RWY	

LRTZ AD 2.17 ATS AIRSPACE

1	*Designation and lateral limits*	NIL
2	*Vertical limits*	NIL
3	*Airspace classification*	NIL
4	*ATS unit call sign* *Language(s)*	NIL
5	*Transition altitude*	NIL
6	*Hours of applicability*	NIL
7	*Remarks*	NIL

LRTZ AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Channel/ Frequency*	*SATVOICE*	*Logon address*	*Hours of operation*	*Remarks*
1	2	3	4	5	6	7
NIL	NIL	NIL	NIL	NIL	NIL	NIL

LRTZ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (For VOR/ILS/ MLS, give VAR)	*ID*	*Frequency*	*Hours of operation*	*Site of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
NIL	NIL	NIL	NIL	NIL	NIL	NIL

LRTZ AD 2.20 LOCAL AERODROME REGULATIONS

- NIL -

LRTZ AD 2.21 NOISE ABATEMENT PROCEDURES

- NIL -

LRTZ AD 2.22 FLIGHT PROCEDURES

- NIL -

LRTZ AD 2.23 ADDITIONAL INFORMATION

- NIL -

LRTZ AD 2.24 CHARTS RELATED TO THE AERODROME

LRTZ AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable.

Changes: Chart redrawn.

AERODROME CHART - ICAO

43° 59' 03" N
028° 36' 35" E

ELEV 167FT

OPC 131.480

TUZLA/ Tuzla (LRTZ)

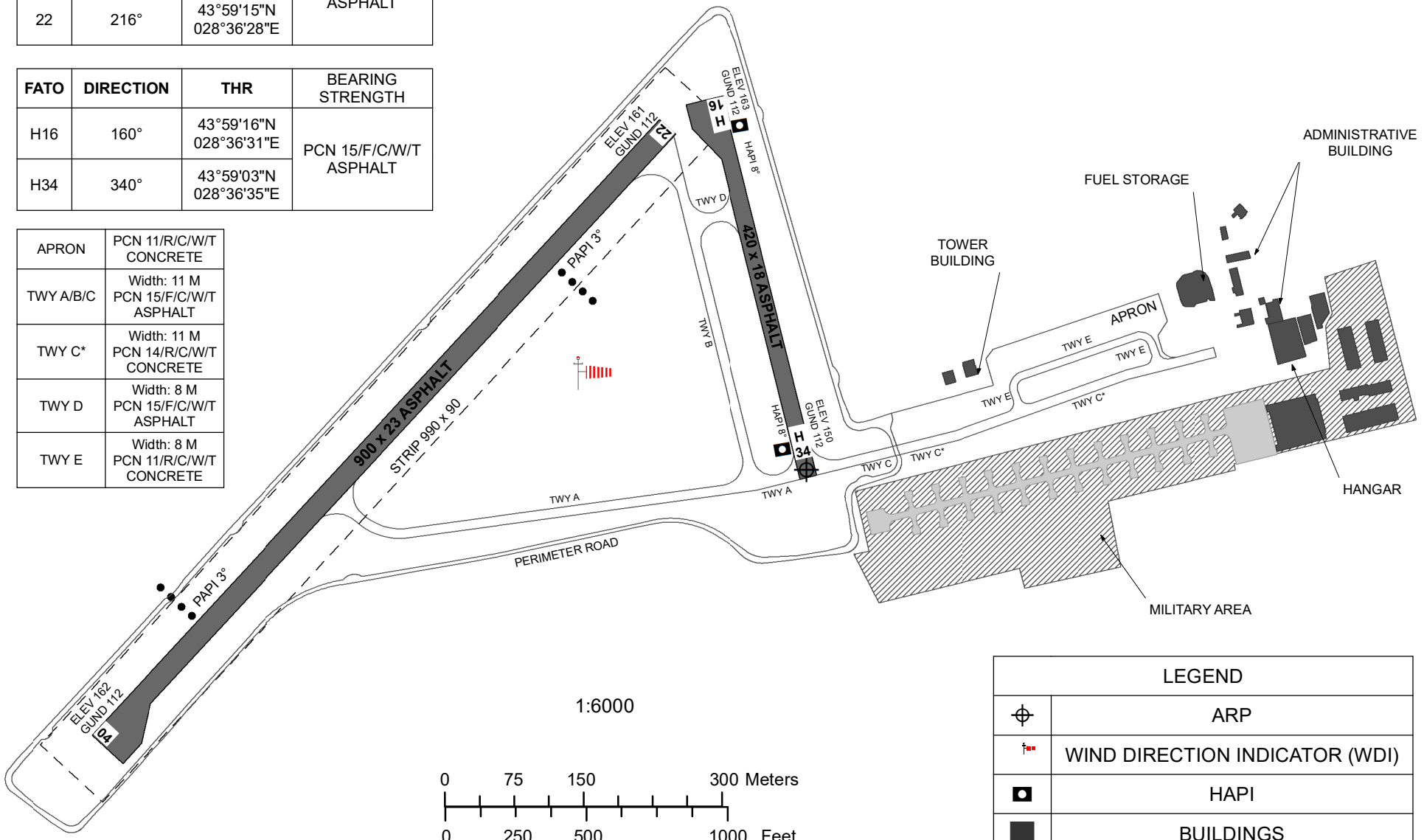
RWY	DIRECTION	THR	BEARING STRENGTH
04	036°	43°58'54"N 028°36'01"E	PCN 15/F/C/W/T ASPHALT
22	216°	43°59'15"N 028°36'28"E	

FATO	DIRECTION	THR	BEARING STRENGTH
H16	160°	43°59'16"N 028°36'31"E	PCN 15/F/C/W/T ASPHALT
H34	340°	43°59'03"N 028°36'35"E	

APRON	PCN 11/R/C/W/T CONCRETE
TWY A/B/C	Width: 11 M PCN 15/F/C/W/T ASPHALT
TWY C*	Width: 11 M PCN 14/R/C/W/T CONCRETE
TWY D	Width: 8 M PCN 15/F/C/W/T ASPHALT
TWY E	Width: 8 M PCN 11/R/C/W/T CONCRETE

ELEVATIONS IN FEET
DIMENSIONS IN METERS
BEARINGS ARE MAGNETIC

VAR 7°E 2025
ANNUAL RATE OF CHANGE 7.2'E



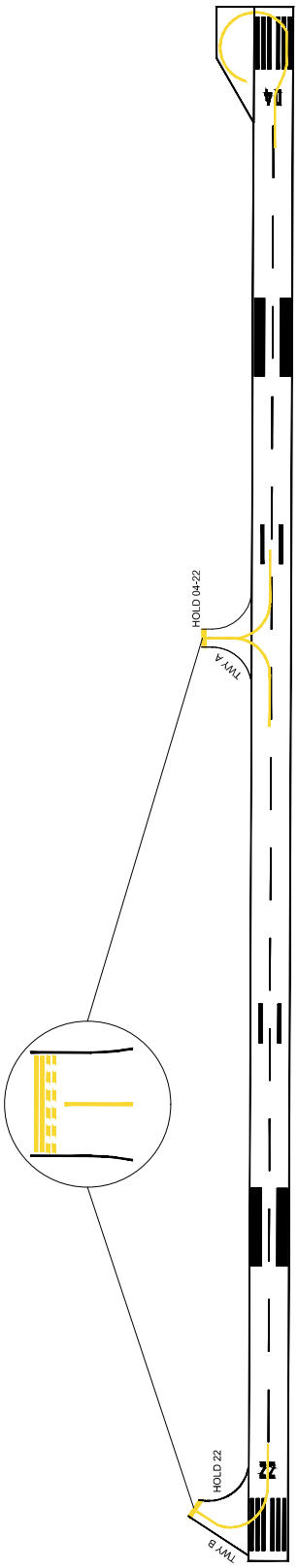
1:6000

0 75 150 300 Meters
0 250 500 1000 Feet

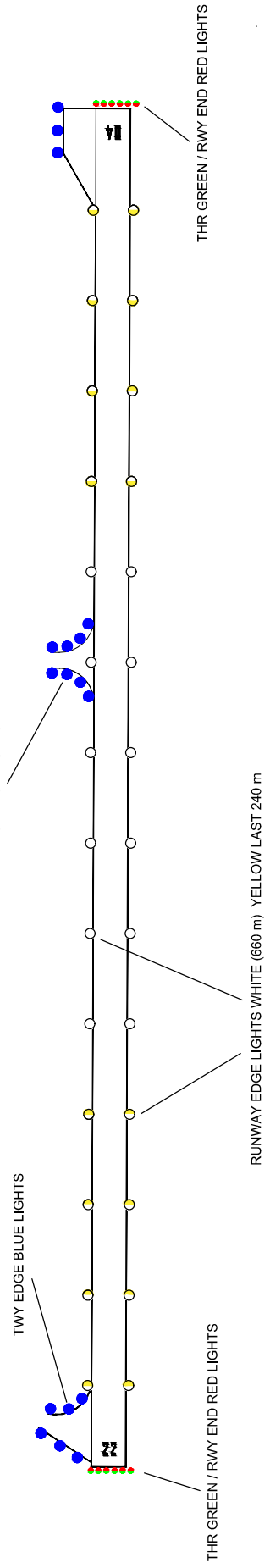
LEGEND	
⌖	ARP
	WIND DIRECTION INDICATOR (WDI)
	HAPI
	BUILDINGS

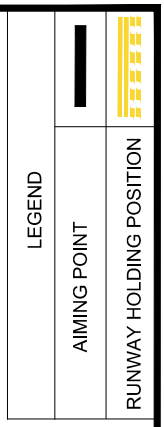
AERODROME CHART - ICAO 43° 59' 03" N 028° 36' 35" E **ELEV 167FT** OPC 131.480 **TUZLA / Tuzla (LRTZ)**

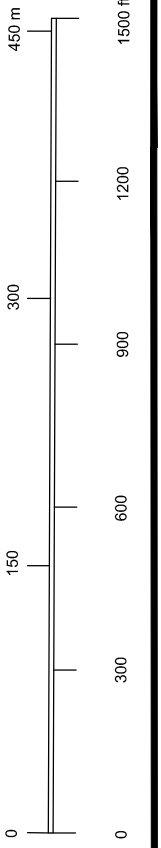
MARKING AIDS RWY 04/22 AND EXIT TWYs



LIGHTING AIDS RWY 04/22 AND EXIT TWYs







Changes: New chart

VISUAL OPERATIONS CHART

AERODROME ELEV **167 FT**

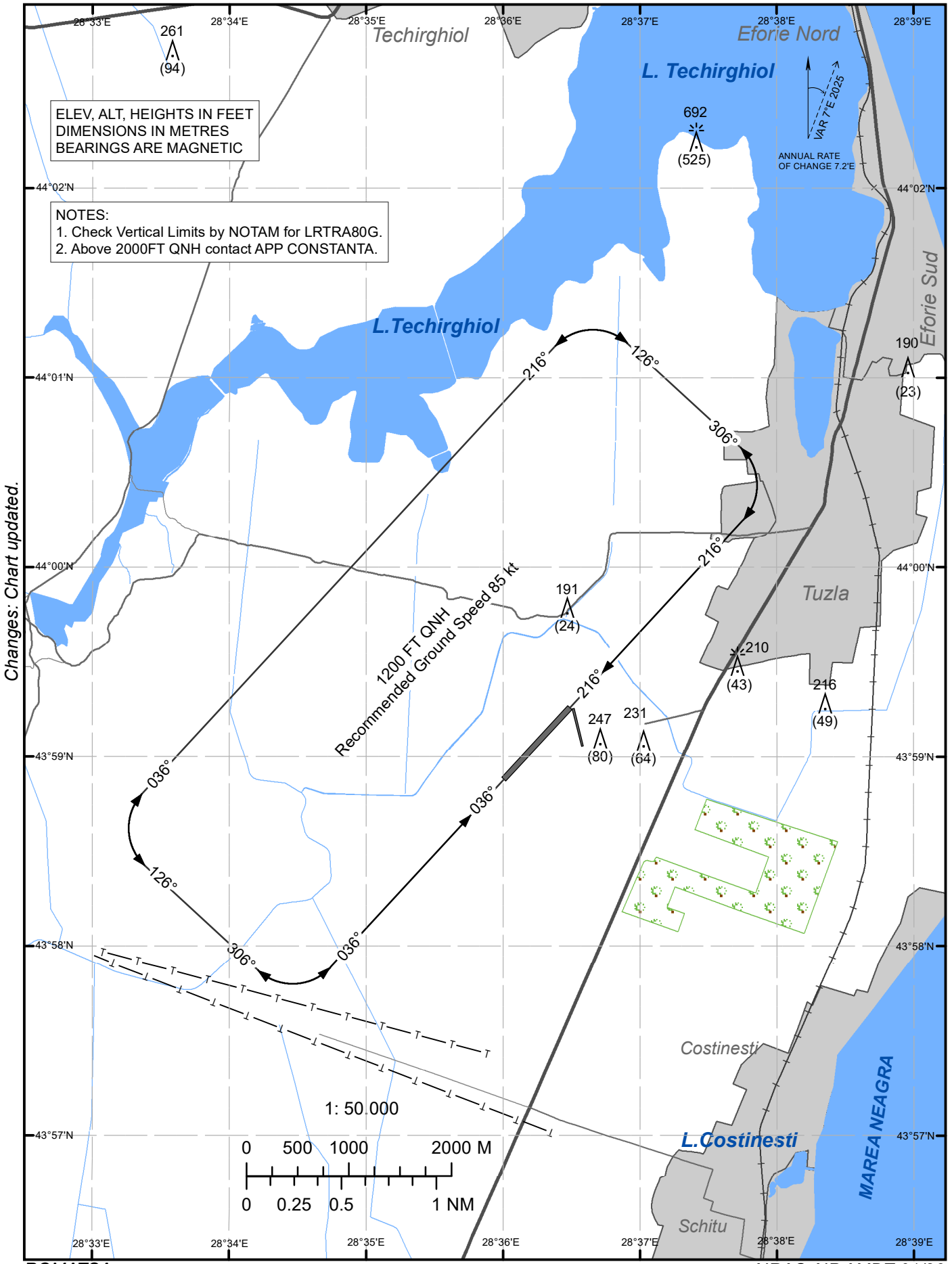
HEIGHTS RELATED TO AD ELEV

OPC 131.480

TUZLA / Tuzla (LRTZ)

RWY 04/22

Aerodrome traffic circuit



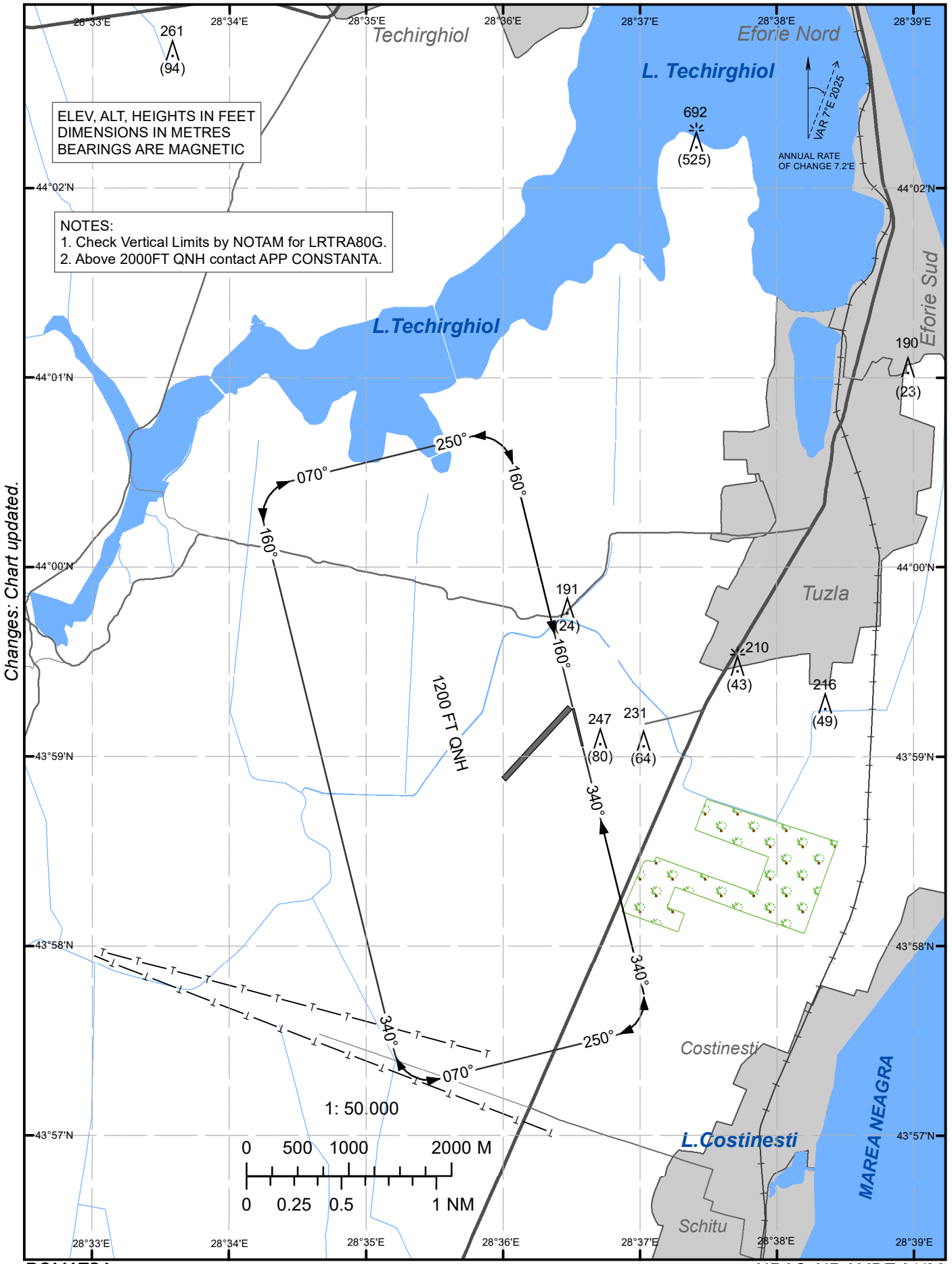
Changes: Chart updated.

VISUAL OPERATIONS CHART

AERODROME ELEV **167 FT**
HEIGHTS RELATED TO AD ELEV

TUZLA / Tuzla (LRTZ)
FATO 16/34
Aerodrome traffic circuit

OPC 131.480



Changes: Chart updated.