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**AIRAC  
AIP SUP**

**06  
30 NOV 2023**

## AIRAC AIP SUPPLEMENT 06/23

### **Construction works for the extension of the runway and extension of APRON 1 at the ORADEA Airport Stage II**

The extension works for the runway, which involved an additional 420 meters towards the south, have been initiated. This extension also includes the installation of CNS equipment and the lighting system for CAT II precision instrument approach on runway 01. As a result, the endpoint of runway 19 has been relocated 150 meters to the NORTH, aligning with the current threshold of runway 01.

During the relocation of the ILS LOC 19, the precision instrument approach procedure for runway 19 has been suspended. Additionally, due to the decommissioning of the SALS lighting system on runway 01, nighttime approach and landing operations on this direction have been suspended.

The declared distances of the runway are modified according to the information provided in this SUPPLEMENT.

At the same time, demolition works for APRON 2 and TWY C are ongoing, resulting in the closure of these surfaces to facilitate the enlargement of APRON 1.

During takeoff and landing of aircraft, all mobile obstacles will be removed to ensure they do not penetrate any obstacle limitation surface or OFZ volume.

The affected areas by the construction works are properly delimited, marked, and equipped with appropriate beacons.

### **Lucrari de constructie pentru extinderea pistei de decolare-aterizare și extindere APRON 1 la Aeroportul ORADEA Etapa II**

S-au demarat lucrările de prelungire a pistei cu 420 m spre SUD și instalare a mijloacelor CNS și a balizajului luminos, pentru apropierea de precizie CAT II pentru direcția 01. Drept urmare capătul pistei 19 a fost relocat 150 m spre NORD pe poziția actuală a pragului pistei 01.

Procedura de apropiere instrumentală de precizie pe direcția 19 a fost suspendată pentru relocarea ILS LOC 19, iar datorită defecției sistemului de balizaj SALS pe direcția 01, operațiunile de apropiere și aterizare pe timp de noapte, pe această direcție, au fost suspendate.

Distanțele declarate ale pistei se modifică conform prezentului SUPPLEMENT.

Totodată în această perioadă se realizează lucrările de demolare a APRON 2 și a TWY C, astfel aceste suprafețe sunt închise pentru lucrările de mărire a APRON 1.

La decolarea și aterizarea aeronavelor, orice obstacol mobil va fi retras astfel încât să nu străpungă nicio suprafață de limitare a obstacolelor sau volumul OFZ.

Zonele afectate de lucrări sunt delimitate, marcate și balizate corespunzător.

**LROD AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN**

1	<i>Types of clearing equipment</i>	1 equipment with plough, brush and turbo blower, 2 scrappers, 2 tractors with blade, 1 tractor with blade and trailer, solid deicing spreader, 1 brush, 1 snow blower, 1 sweeping equipment and runway deicing, 2 airport surface friction testers.
2	<i>Clearance priorities</i>	1. RWY 19/01 2. TWY A, TWY B 3. APRON 1
3	<i>Use of material for movement area surface treatment</i>	RWY de/anti-icing substances type used: Potassium acetate fluid (KAC)
4	<i>Specially prepared winter runways</i>	NIL
5	<i>Remarks</i>	Information on RWY surface condition in Global Reporting Format is published by SNOWTAM

**LRCL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1	<i>Apron designation, surface and strength</i>	APRON 1 Surface: Concrete Strength: 60/R/D/W/U
2	<i>Taxiway designation, width, surface and strength</i>	TWY A, B: Width: 18 M Surface: Concrete Strength: 60/R/D/W/U
3	<i>ACL location and elevation</i>	NIL
4	<i>VOR checkpoints</i>	NIL
5	<i>INS checkpoints</i>	See AD 2.11-22
6	<i>Remarks</i>	RWY turning bay: Location: THR 19 Surface: Concrete Dimensions: 110 M x 25 M Strength: 60/R/D/W/U

**LRCL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

1	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system at aircraft stands</i>	Taxiing guidance signs at intersection with TWY, guide lines on the apron. Mandatory instructions markings. Guide lines at apron.
2	<i>RWY and TWY markings and LGT</i>	RWY: - markings: Color white: designation, center line, THR, aiming point, TDZ, RWY side strip.; - lights: THR and wing bar lights, center line lights, end lights, edge lights, TDZ lights for RWY 19.  TWY A,B: - markings: Color yellow: centre line, runway holding position, edges, enhanced centerline, runway designator marking.; - lights: centerline lights, taxiway edges lights, stop bar lights.
3	<i>Stop bars and runway guard lights</i>	Red stop bar on TWY A Red stop bar on TWY B
4	<i>Other RWY protection measure</i>	NIL
5	<i>Remarks</i>	THR 19 displaced 150 M TURN PAD (at RWY 01 END) - markings: Color yellow; center line, edges. - lights: Turn pad center line lights, edge lights.

### LROD 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
					6	7	
1	2	3	4	5	6	7	
19	191.17°	1950 x 45	60 R/DW/U Concrete	470159.71N 0215416.92E 470102.53N 0215400.42E GUND 136 FT	THR 450 FT TDZ 453 FT		0.25% (150 M) 0% (900 M) 0.4% (900 M)
01	011.16°	1950 x 45	60 R/DW/U Concrete	470102.53N 0215400.42E 470204.47N 0215418.29E GUND 136 FT	THR 464 FT		- 0.4% (900 M) 0% (900 M) - 0.25% (150 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	2070 x 250	90 x 150	NIL	NIL	NIL	NIL
NIL	260 x 180	2070 x 250	240 x 150	NIL	NIL	NIL	NIL

### LROD AD 2.13 DECLARED DISTANCES

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
19	1950	2010	1950	1800	NIL
01	1950	2210	1950	1950	NIL

### LROD AD 2.14 APPROACH AND RWY LIGHTING

RWY Designator	APCH LGT type	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT, LEN	RWY	RWY	RWY End LGT colour WBAR	RWY LGT LEN(M) colour	Remarks
	Centre Line Length, spacing, colour, INTST				edge LGT LEN, spacing, colour, INTST				
1	2	3	4	5	6	7	8	9	10
19	CAT II 900M LIH	Green WBAR	PAPI (50FT) 3°	White 900M	900 M, 15M White, LIH 600M, 15M White/Red, LIH 300M, 15M Red, LIH	1170M, 60M, White, LIH 630M, 60M, Yellow, LIH	Red -	NIL	Red edge lights, 150M before THR, only on approach direction
01	NIL	Green WBAR	PAPI (49FT) 3°	NIL	1050M, 15M White, LIH 600M, 15M White/Red, LIH 300M, 15M Red, LIH	1350M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red -	NIL	Red edge lights, 150M before THR, only on approach direction

**LROD 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 NIL
3	TWY edge and centre line lighting	TWY A and TWY B edge blue omnidirectional lights LIL, 60M (15M) spacing TWY centre line green/green; yellow/green lights, 15M (7.5M) spacing
4	Secondary power supply/switch-over time	Secondary power supply for all lighting on the AD; Switch-over time 1 sec.
5	Remarks	NIL

**LROD AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

Type of aid MAG VAR CAT of ILS/MLS (For VOR/ILS/MLS, give declination)	ID	Frequency	Hours of operation	Position of Transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB(LO)	ORA	418 KHz	H24	470601.3N 0215526.9E	-	007° MAG / 4.11 NM from THR 19 Coverage 100 NM (declared)
NDB(LM)	O	360 KHz	H24	470242.7N 0215429.3E	-	007° MAG / 0.73 NM from THR 19

The following charts are temporary suspended:

Se suspendă temporar următoarele hărți:

AD 2.11-20/ 15 JUL 2021, AD 2.11-20a/15 JUL 2021, AD 2.11-23/07 NOV 2019, AD 2.11-25/ 15 JUL 2021,  
AD 2.11-26/ 15 JUL 2021, AD 2.11-28/08 SEP 2022, AD 2.11-51/07 NOV 2019,AD 2.11-52/ 07 NOV 2019

The following charts are temporary in force:

Se adaugă temporar următoarele hărți:

AD 2.11-20/ 02 NOV 2023, AD 2.11-20a/02 NOV 2023, AD 2.11-25/ 02 NOV 2023,  
AD 2.11-26/ 02 NOV 2023

Estimated work period is about 2 months.

Durata estimată a lucrărilor este de 2 luni.

- END -

- SFÂRȘIT -

**AERODROME CHART - ICAO** 47° 01' 31" N  
021° 54' 09" E  
**ELEV 468FT**

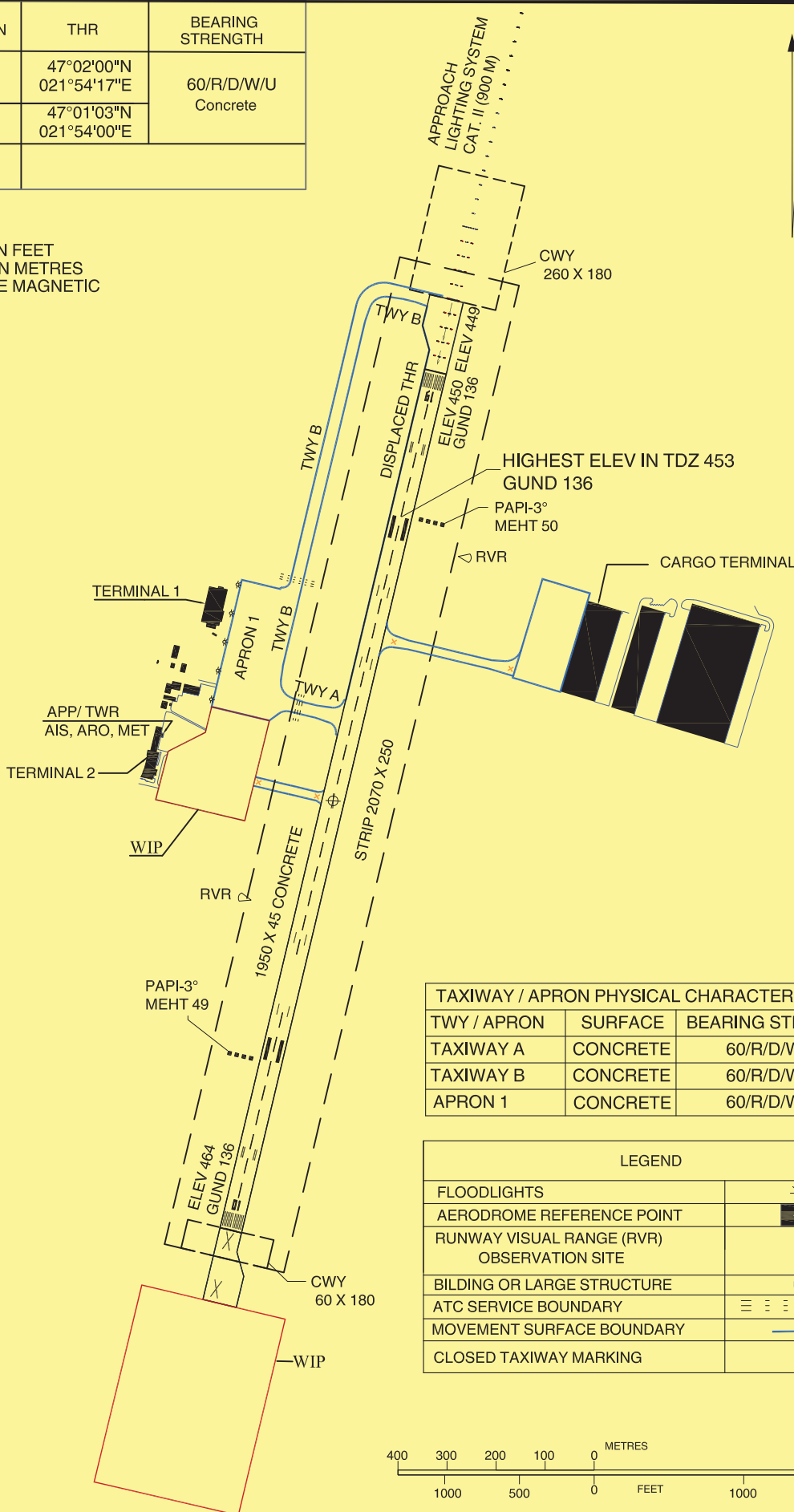
ORADEA TOWER 118.455  
ORADEA TOWER ALTN 120.200

**ORADEA / Oradea (LROD)**

RWY	DIRECTION	THR	BEARING STRENGTH
19	187°	47°02'00"N 021°54'17"E	60/R/D/W/U Concrete
01	007°	47°01'03"N 021°54'00"E	
HELIPORT			

ELEVATIONS IN FEET  
DIMENSIONS IN METRES  
BEARINGS ARE MAGNETIC

VAR 4°E 2010

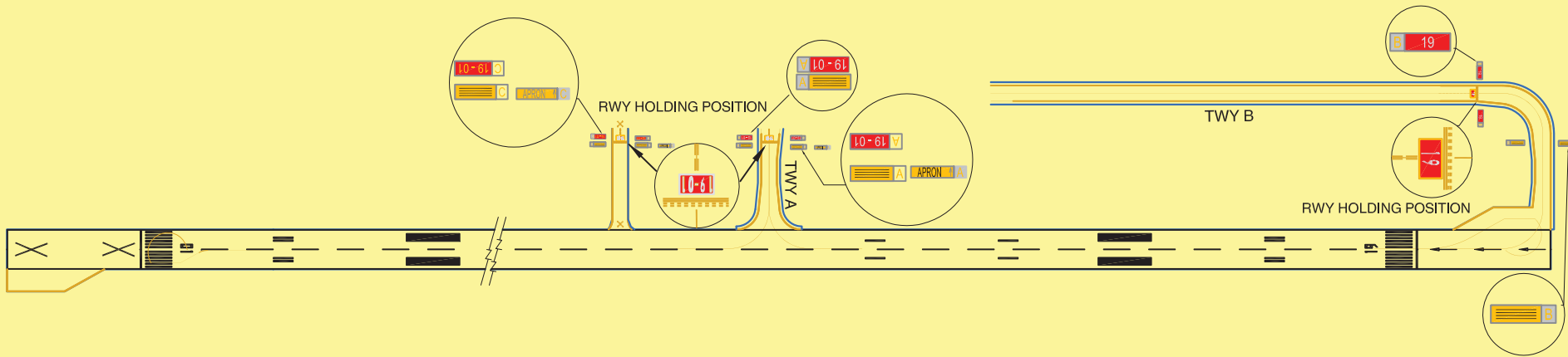


TAXIWAY / APRON PHYSICAL CHARACTERISTICS		
TWY / APRON	SURFACE	BEARING STRENGTH
TAXIWAY A	CONCRETE	60/R/D/W/U
TAXIWAY B	CONCRETE	60/R/D/W/U
APRON 1	CONCRETE	60/R/D/W/U

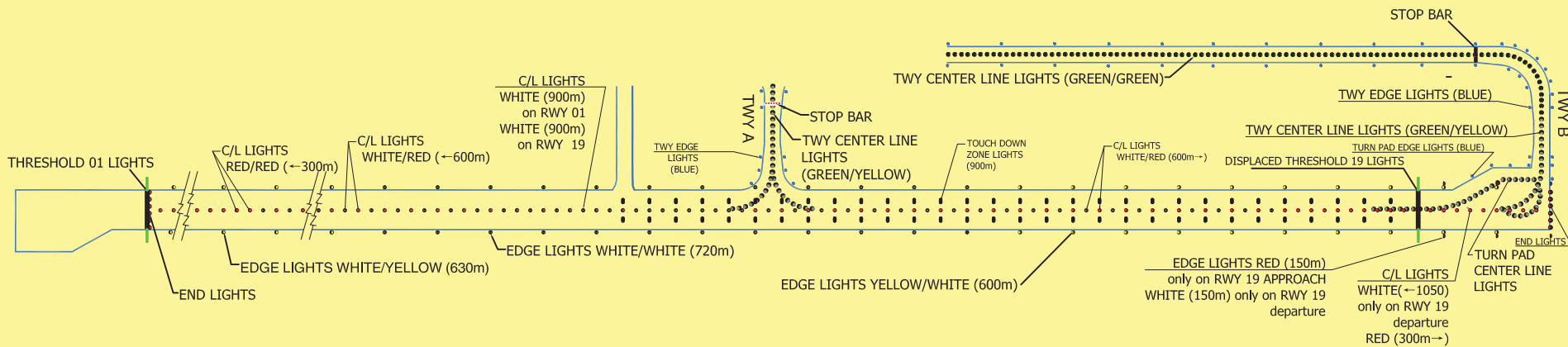
LEGEND	
FLOODLIGHTS	
AERODROME REFERENCE POINT	
RUNWAY VISUAL RANGE (RVR) OBSERVATION SITE	
BUILDING OR LARGE STRUCTURE	
ATC SERVICE BOUNDARY	
MOVEMENT SURFACE BOUNDARY	
CLOSED TAXIWAY MARKING	

### MARKING AIDS RWY 01 / 19 AND EXIT TWY

VAR 4°E 2010



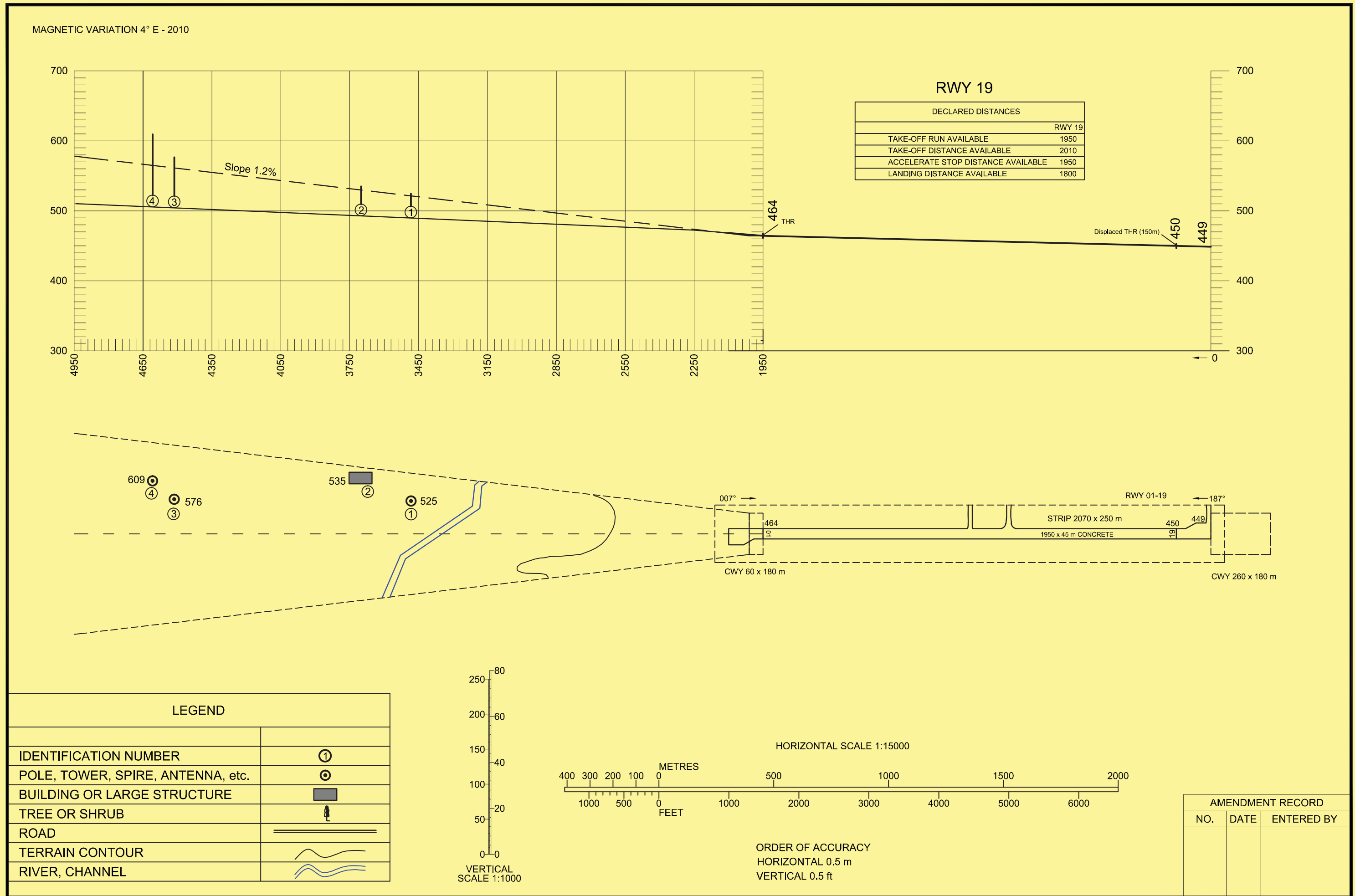
### LIGHTING AIDS RWY 01/19 AND EXIT TWY



**AERODROME OBSTACLE CHART - ICAO**  
TYPE A (OPERATING LIMITATIONS)

**ORADEA / Oradea (LROD)**

ELEVATIONS IN FEET AND DIMENSIONS IN METRES

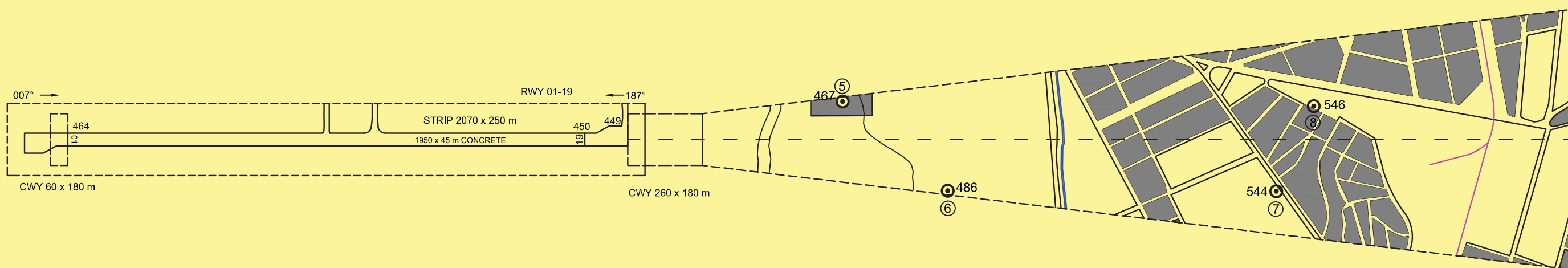
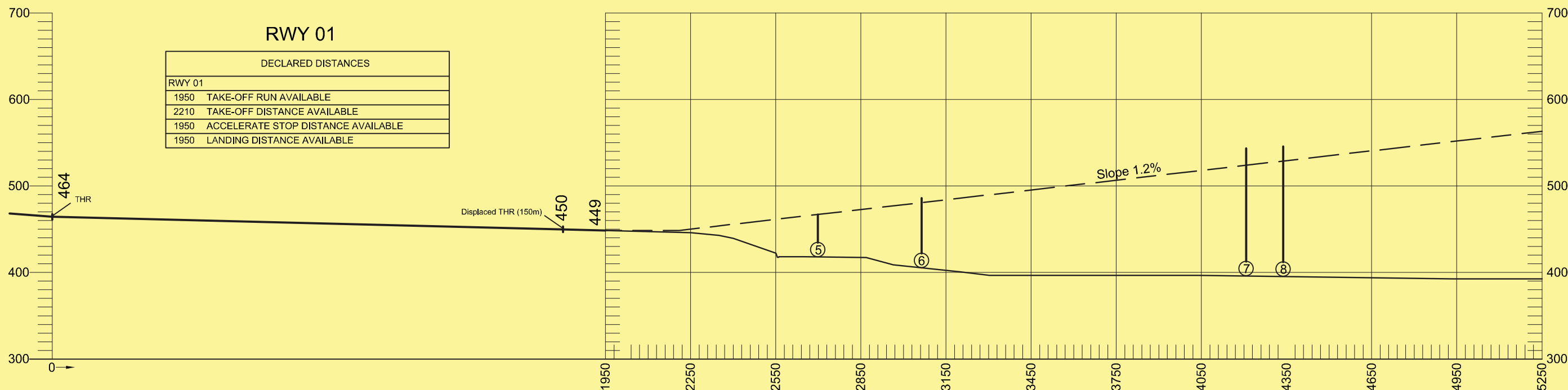


**AERODROME OBSTACLE CHART - ICAO**  
TYPE A (OPERATING LIMITATIONS)

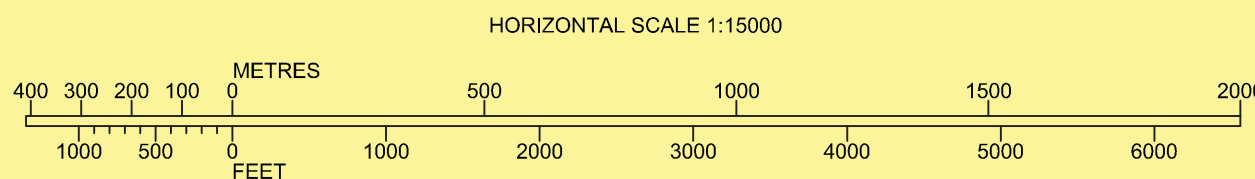
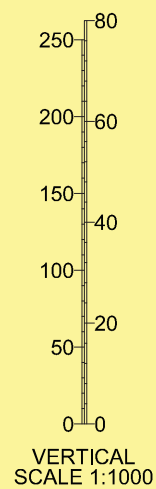
**ORADEA / Oradea (LROD)**

ELEVATIONS IN FEET AND DIMENSIONS IN METRES

MAGNETIC VARIATION 4° E - 2010



LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, etc.	⊙
BUILDING OR LARGE STRUCTURE	■
TREE OR SHRUB	🌳
ROAD	══
TERRAIN CONTOUR	~ ~ ~
RIVER, CHANNEL	~~~~



ORDER OF ACCURACY  
HORIZONTAL 0.5 m  
VERTICAL 0.5 ft

AMENDMENT RECORD		
NO.	DATE	ENTERED BY