

AIRCRAFT
MANUAL



THE
FUTURE
OF THE
AEROSPACE
INDUSTRY



DUBAI
AIRSHOW

13-17 NOVEMBER 2023
DWC, DUBAI AIRSHOW SITE

FLYING CONTROL COMMITTEE (FCC)

| | |
|--|----------------------------|
| Gen. S. Pilot Abdul Salam R Al Mehairbi | Chairman |
| Ibrahim Ahli | Deputy Chairman |
| Thani Al Thani | FCC Member |
| Capt Michael Schreiber | FCC Member (Emirates) |
| John Taylor | FCC Member (Park Director) |
| R.Lt.Col. Mohammed Al Zarouni | FCC Member |
| Ministry of Defence (MOD) | 5 Members |
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1. INTRODUCTION

The 2023 edition of Dubai Airshow takes place at DWC – Al Maktoum International Airport from Monday 13th November to Friday 17th November 2023.

- a. This manual covers the operation and regulation of aircraft for both flying and static display. It is intended for the use of pilots and exhibitors participating in the flying display activities of the Airshow. The manual complies with the UAE Civil Aviation Regulations (CARs) and Acceptable Means of Compliance (AMC) AMC-15 Flying Displays Standards.
- b. Flying Displays will be held over and in the area of Al Maktoum International Airport (DWC). Procedures have been designed to enable participants to display their aircraft to the fullest. However, every precaution must be taken to protect the attendees from the inconvenience of noise and the risk of an accident.
- c. The Flying Regulations and Air Forms for presenting aircraft at the Dubai Airshow can be downloaded from the official website www.dubaiairshow.aero

Pilots are advised to study this manual carefully and where queries arise, seek clarification from the Flying Control Committee (FCC) authorities who are contactable at the following email address:

FCCDAS23@dans.gov.ae

For queries regarding Static Aircraft Park contact:

Name: Aircraft Manager
Tel: +971 4 603 3339
Email: johnson.monteiro@dubai.aero

- For the avoidance of doubt, the use of words ‘must’ and ‘shall’ within this manual are to be understood as mandatory requirements.
- All ‘time’ mentioned in this manual are in Local Time (LT). UAE Local Time = UTC+4 Hour.
- Throughout this Manual, the Flying Control Committee will be referred to as the FCC.



2. TERMINOLOGY

| | |
|-----------------------|---|
| The Event | Dubai Airshow 2023 |
| Flying Display | Any flying activity deliberately performed for the purpose of providing an exhibition or entertainment at the event. |
| Crowd Line | The forward edge of the area is intended for spectators to which the public has access during a Flying Display. |
| Display Line | A line defining the closest a display aircraft should approach the Crowd Line. |
| FCC Chairman | The person responsible for the safe conduct of a Flying Display. |
| Display Pilot | A pilot who holds a Display Authorization or Exemption, issued by the appropriate national authority, which allows him to take part in a Flying Display. |
| Spectator | A person watching the Flying Display and remaining in the areas set aside for attendees. |
| Display Authorization | A national document detailing the types or groups of aircraft in which a pilot is authorized to display, together with any limitations and other specific endorsements. |
| Airside | The area of the airfield within which aircraft manoeuvring takes place and to which the attendees DO NOT have access. |
| Landside | The area of the airfield within which aircraft manoeuvring does not take place and the attendees may have access. |
| Event site | The area where the Chalets and Static Aircraft Displays are located. |
| Static Aircraft Park | A park for aircraft to which the attendees have access. |
| Maintenance Park | A park for aircraft to which the attendees have NO access. |

3. GENERAL INFORMATION

3.1 APPLICATION FOR SLOTS

All flights arriving/departing Al Maktoum International Airport (DWC) for the Dubai Airshow event from 13–17 November 2023 and those planning in advance for demonstration flights, are required to have prior slot approval.

All flights related to Airshow arriving/departing Al Maktoum International Airport (DWC) before and after the Airshow should have prior approval.

No operator shall operate to or from Al Maktoum International Airport (DWC) without first obtaining confirmed slots from Airport Coordination Limited (ACL).

3.2 ACL SLOT AUTHORITY

Slot authority gives permission to operate at a specific date and a specific time which includes time on the ground. Slot times are on/off block times.

Slot requests for exhibitor's aircraft will be processed on a first come first served basis.

Requests should be sent to ACL's slot request email address, as detailed below using the IATA SSIM chapter 6 format. If you are not accustomed to SSIM please send a completed Slot Request Form to the email address below. Please be aware, the manual processing times of the Slot Request Form may result in lower priority of slot allocation. All requests must include arrival and departure information.

For further information, please contact ACL on:

Dubai Office: +971 4 504 5824

International Office: +44 208 5640 626

SSIM SLOT REQUESTS

Email: slots@acl-international.com

Website: <http://www.acl-uk.org/acl-international/>

QUERIES ON SLOTS

Any queries on slots can be sent to the below-given email:

dxbstaff@acl-international.com



3.3 AIRFORMS SUBMISSION

Exhibitors are required to submit the following Air forms by 6th September 2023 for presenting aircraft at the Dubai Airshow.

| AIR FORMS DESCRIPTIONS | |
|------------------------|--|
| AIR 1 | Aircraft Information Application to present Air 1 form required for each aircraft being exhibited. |
| AIR 2 | Aircraft Clearance and Flight Display. To be completed for all aircraft accepted for flying display and customer demonstration. |
| AIR 3 | Aircraft maintenance part storage cabins. To be completed by Exhibitors to apply for maintenance area passes, storage cabins. |
| AIR 4 | Confirmation of Aircraft insurance. To be completed for each aircraft being exhibited. |
| AIR 5 | Aircraft security fencing. To be completed by exhibitors to apply for security fencing. |

3.4 DESCRIPTION OF FLYING DISPLAY

Exhibitors presenting aircraft in the flying display must submit for each aircraft a full written description on Form Air 2 with an accompanying sketch of the flight manoeuvres and linking manoeuvres to be used in the proposed display in both good and bad weather conditions. Should it subsequently become necessary to change or reduce the length of the flight display, only those manoeuvres shown may be performed.

3.5 DEFINITION OF AEROBATIC MANOEUVRE

An aerobatic manoeuvre is defined as any manoeuvre exceeding 60° of roll or pitch.

3.6 CHANGES TO THE FLYING DISPLAY

The FCC has the authority to exclude any particular manoeuvre, manoeuvres or the complete flight display. In this event, a revised flight display form (FORM AIR 2) must be submitted and will have to be demonstrated to the satisfaction of the FCC before the aircraft can participate in the flying displays. Additionally, if the pilot wishes to alter his flight display, FORM AIR 2 must be amended with all new manoeuvres and linking manoeuvres not previously authorized on the Form.

All alterations must be signed by the pilot concerned and by a member of the FCC. The revised flight display will then have to be demonstrated to the satisfaction of the FCC before the aircraft is cleared to take part in the Flying Displays.

3.7 AIRCREW CURRENCY

Pilots must be in current flying practice on the type of aircraft they will be presenting. Pilots must be able to satisfy the FCC of their flying currency at the time of the Flying Display by presenting authenticated evidence of their flying hours on type during the previous three months, total flying hours and previous display experience. Civilian pilots must hold the appropriate National License/Authority to fly.

3.8 WEATHER CONDITIONS GOVERNING DISPLAY

Bad weather conditions, when the display is permitted, are defined as cloud base at or below 1500 feet and visibility less than 5000 meters. In all weather conditions pilots shall maintain 1,000 feet horizontally and vertically clear of clouds.

3.9 CONTROL OF THE PRESENTATION OF AIRCRAFT

Control of aircraft flying displays including all individual and combined rehearsals is vested by the Organisers in the Flying Control Committee (FCC). Exhibitors presenting aircraft and their pilots must comply with the Organiser's regulations governing the presentation and flying of aircraft and all subsequent instructions issued by the FCC. The Organisers reserve the right to change and interpret any regulation governing the presentation and flying of aircraft.

The FCC is empowered to withdraw the flight display approval of any pilot who willfully disregards instructions or disobeys the regulations.

3.10 BRIEFING/DEBRIEFING REQUIREMENT

During the period of the exhibition, and for the Dress Rehearsal, all pilots taking part in the flying display activities shall attend the daily briefing held at 12:00hr Local Time (LT) in the FCC briefing room. They are to sign the Display Authorization Sheet to signify that they have received and understood the Briefing.

Note: Pilots will not be allowed to participate in the day's display unless they have attended the Daily Briefing. Details of briefings will be informed once it is decided.

Debriefings will be conducted whenever the need arises. Pilots will be informed accordingly.

3.11 PRACTICE REQUIREMENTS – INDIVIDUAL PRACTICES & VALIDATIONS

To enable pilots to familiarize themselves with the display area, time will be allocated for individual practices. These practices may be conducted between 10:00hs – 12:00hr LT and 15:00hr to 17:00hr on Thursday 9th Nov, Friday 10th Nov and Saturday 11th Nov. The FCC will arrange individual practice times for pilots upon request, after the initial briefing.

Allocation of flying time slots for display aircraft during the practice and validation period will be strictly controlled by the FCC.

Participating pilots must ensure adherence to the slot procedures at all times.

To avoid disruption of commercial traffic at Al Maktoum International (DWC), the following procedures will apply.

- a. Under normal circumstances, only one nominated pilot per display aircraft will be permitted and it is expected that each display pilot will require not more than 3 practices inclusive of a validation flight.
- b. Approval to carry out additional practice flights and/or for additional pilots to fly will be dependent on the number of display aircraft participating in the event plus the total number of slots available.
- c. Late arrival during the practice and validation period may result in insufficient practice slots available and render the aircraft/pilot ineligible to participate in the Flying Display.
- d. Practice and/or validation flights are not permitted outside the times stated above.

Failure to complete a satisfactory validation will disqualify the pilot from participation in the Flying Displays.

Acceptance for Flying Display:

Participants will be advised in writing of the FCC's acceptance of their proposed flying displays upon successful completion of validation flights.

Pilot's undertakings:

After having their flight display approved by the FCC, pilots must undertake that their flight displays during the Flying Display will conform in every respect to the approved demonstration.

3.12 DRESS REHEARSAL

A dress rehearsal will take place on Sunday 12th November 2023 at Al Maktoum International Airport (DWC) between the 14:00hr–17:00hr LT.

3.13 FLYING DISPLAY

Flying Display will take place daily from Monday 13th to Friday 17th November 2023 at Al Maktoum International Airport between the 14:00hr–17:00hr LT.

3.14 STATIC AIRCRAFT

Static aircraft must be exhibited for the full period of the Dubai Airshow, i.e. Monday 13th to Friday 17th November 2023 inclusive.

3.15 ESSENTIAL CREW

Only essential aircrew will be approved by the FCC to fly during the demonstrations (i.e. no passengers).

3.16 CUSTOMER DEMONSTRATIONS

Pilots wishing to carry out demonstration flights will have access to the ATC Flight Briefing office located in the FCC block and must file a standard ICAO Flight Plan. Approval will be subject to the availability of slot times.

ATC flight briefing office can be contacted as given below:

Name: Amir AlMaeni
Email: Amir.AlMaeni@dans.gov.ae
Mobile: +971 50 6916696

Repositioning of aircraft must be arranged in advance with the Airside Airshow Senior Manager who is contactable at the following Email and telephone number:

Name: John Taylor
Email: John.Taylor@dubaiairports.ae
Mobile: +971 54 7782441

3.17 TOWBARS

Exhibitors are required to provide a tow bar for each aircraft presented, suitably identified and available for all of the aircraft's movements. Exhibitors are responsible for the connection and disconnection of tow bars and the pilot or a member of the Exhibitor's ground crew will be required to operate the aircraft's brakes during ground movements.

3.18 AIRCRAFT PARKING

Upon arrival, aircraft taking part in either or both of the Static and Flying Displays will be allocated a parking position within the Aircraft Park. Exhibitors are required to ensure that either a pilot or a member of the ground crew is contactable at all times if the FCC should require the aircraft to be moved. Exhibitors are also to ensure that aircraft are moved promptly and as directed by the Aircraft Park Officials of the FCC.

3.19 ARRIVAL PROCEDURE

Upon arrival, or at the first opportunity thereafter, the captain of each exhibited aircraft, whether for static display only and/or flying display, is to report to the FCC Office for registration and briefing. The office is located on the first floor of the air show control tower block and will be operational daily between the 0800hr–1800hr LT.

The Engineering Ground Crew of any aircraft operating from the Maintenance Area or in the Flying Display, are required to contact the Airside Airshow Senior Manager, to schedule a mandatory briefing upon arrival at the Airshow before any Maintenance is permitted on any Aircraft. The Chief Engineer will be responsible for ensuring that the information from the briefing is passed to all members of their team and for compliance with any procedures stated within the briefing.

3.20 IMMIGRATION AND CUSTOMS

After landing at DWC Al Maktoum, the Crew will be met by JETEX courtesy vehicles and escorted for Immigration and Customs formalities. There are no customs charges for Dubai Airshow exhibitors.

3.21 DEPARTURE PROCEDURE

Exhibited aircraft are required to remain in the Aircraft Park area until the show closes at 17:30hr LT on the last day of the Exhibition. Departures should be planned accordingly, and Flight Plans can be submitted to ATC through the Operations Room of the FCC.

After the exhibition day, all departures are to be planned after 11:00hr LT to avoid departure congestion at exit gates. The Dubai CTA will be busy with commercial OMDB and OMSJ departures between 07:00hr LT to 11:00hr LT.

3.22 SECURITY

Exhibitors are required to ensure that aircraft in the Static Park are attended to at all times during the Exhibition's open hours.

3.23 BIRD ACTIVITY

Flocks of gulls are active in the vicinity of the airport from November to March with maximum numbers between early December and mid-February.

Note: The information above is based on predicted activity from the Wildlife Hazard Management Study. The latest information can be obtained from AIP closer to the Airshow date. Bird Concentration Chart is provided in the UAE AIP OMDW AD2-85.

Note: Bird Concentration Chart is provided. The information above is based on predicted activity from the Wildlife Hazard Management Study. The latest information can be obtained from AIP closer to the Airshow date.

3.24 UNMANNED ARIAL SYSTEM (UAS) DEMONSTRATIONS

Participants proposing to demonstrate UAS vehicles at the Event should advise the Organisers as soon as possible.

3.25 UAS VEHICLE FLYING TIMES

Specific times, to be advised, will be set aside for the flying of UAS vehicles during which all other aircraft flying movements will be suppressed.

3.26 PROPOSAL TO DISPLAY A UAS VEHICLE

Participants will be required to provide the following detailed information:

- a. A technical description of the UAS including size, weights, speeds, control systems, emergency systems etc.
- b. A detailed description of the proposed display flights including the planned heights, speeds and manoeuvres that will be carried out during the display.
- c. A clear indication of how control of the UAS will be maintained during the launch, flying and recovery of the UAS.
- d. A description of the various failure modes with the UAS and details on how public safety will be maintained throughout the described failure modes.
- e. Details (including copies) of any license or certification held by the UAS operator and a resume of the operator's experience in operating UAS vehicles.
- f. A risk assessment/safety case to specifically cover the UAS flying at a public event and to detail the mitigations to eliminate, as far as is reasonably practicable, any risk to the public by both normal flight conditions, failure modes and any possible emergency event.
- g. How the participant plans to position the UAS into the Airshow area.
- h. Any other information which the participant believes will be useful in determining the safety aspects of the planned display flight.
- i. The FCC reserve the right to refuse to permit any UAS vehicle to fly at the Event if, in the opinion of the FCC, the appropriate level of public safety cannot be achieved.
- j. UAS demonstrations will be required to validate the display for the FCC in the same manner as manned aircraft during the period.
- k. UAS vehicle operators will be required to attend the daily pilot briefings.

3.27 ELECTRICAL VERTICAL TAKE-OFF AND LANDING (EVTOL)

As the world gathers here in Dubai, a global hub for technological advancement and visionary projects, we believe it is the perfect setting to unveil this groundbreaking technology. Electrical Vertical Takeoff and Landing (eVTOL) is a breakthrough in aircraft design, harnessing cutting-edge electric propulsion technology to achieve vertical takeoff and landing capabilities. It offers a new dimension of mobility and transforms the way we envision air transportation in the near future.

The potential applications of eVTOL aircraft are limitless. The Dubai Airshow will serve as a platform to showcase eVTOL prototypes, to discuss their technological advancements, and to allow productive collaboration with stakeholders from around the world. Dubai Airshow will bring interested parties together which will assist to shape the future of aviation and pioneer a new era of transportation that is safer, more efficient, and environmentally friendly.

4. FLYING CONTROL COMMITTEE (FCC) FACILITIES

The FCC shall provide the following facilities:

- a. The link between display crews and all other functions for the purpose of display flights, validation flights and customer demonstration flights.
- b. Allocation of slot times for Practice and Validation Flights and also customer demonstration flights.
- c. Arranging facilities for self-briefing, flight briefing, meteorology, and matters about general flying.
- d. Local NOTAMs, maps and charts (for reference).
- e. The daily flying programme will be confirmed by 17:30hr LT on the preceding day and be published via the official airshow website.
- f. A dedicated meteorological office will be situated in the FCC block. A meteorological briefing shall be included in the pilots briefing each day.

5. FLYING LIMITATIONS DURING FLYING DISPLAYS

5.1 FLIGHT SAFETY

- a. During the Flying Display, it is the intention of the FCC to permit skillful and convincing displays, but flight safety and the safety of the attendees are of paramount importance. Only manoeuvres consistent with the design role of the aircraft will be permitted.
- b. The display area has been graded by height and has a minimum height of 300 feet AGL
- c. In the interest of the safety of the attendees, it is essential that the new parameters are adhered to at all times. The shape of the aerobatic boxes emphasises the rule that all aircraft must climb to 300 feet AGL before crossing the airfield boundary.

5.2 FLIGHT MANOEUVRE/HEIGHT RULES

These rules define the ultimate limits never to be exceeded. Aircrew must provide themselves with the necessary margin so as not to risk exceeding these rules.

These rules will be firmly enforced. The FCC has the authority to tailor these rules to each type of aircraft presented. The Committee is authorized to dictate particular constraints to certain types of aircraft.

Professionalism and flight discipline are essential. In particular, all manoeuvres contrary to the normal usage of the aircraft are prohibited.

- a. Only manoeuvres that have been agreed by the FCC may be performed.
- b. No manoeuvre is to be attempted which is likely to jeopardize the safety of spectators in the event of mishap or misjudgment.
- c. Aircraft may not be turned towards the spectators unless the turn is completed north of the Display Line.
- d. Aircraft are not to be flown outside the aircraft's proven limitations.
- e. Aircraft are not to be flown under asymmetric power.
- f. Aircraft are not to exceed a true airspeed of $M=0.90$.
- g. Aircraft may not be flown closer to the spectators than the display line of the display. (See Appendix A. This is an approximate line and to be confirmed by closer to the date/FCC briefing).
- h. Flying displays must be carried out at or above a minimum height of 300 feet AGL. After take-off, aircraft are to be climbed to that height or above, before any aerobatic manoeuvres are carried out.
- i. Manoeuvres in the looping plane which involve pulling through, or recovery from, the vertical must be completed by 500 feet AGL.
- j. All helicopter aerobatics must be executed and completed by 500 feet AGL.
- k. Helicopter aerobatics are permitted only by those helicopters which have a certified capability proved to the satisfaction of the FCC.
- l. Helicopters are not permitted to perform more than one rolling or looping manoeuvre during any one pass.
- m. Due to the limitations of the flying display area, any proposals for helicopters to carry underslung loads during their display must be put forward to the FCC for consideration and possible approval.

Notes:

- a. The above limitations do not affect any more stringent limitations imposed by national authorities, manufacturers or other operating authorities.
- b. The FCC is empowered to impose increased limitations on individual aircraft at their discretion.

Dispensations will only be given in exceptional circumstances.

5.3 CARRIAGE OF LIVE ORDINANCE/ARMAMENT

No live ordnance/armament or radioactive material may be carried on aircraft during the flying display. No equipment transmitting powerful electromagnetic signals or lasers are to be operated during flight.

5.4 BREACH OF FLYING DISPLAYS

Breaches of flying discipline are liable, in the first instance, to result in the pilot being required to break off his display and land. It may also result in the aircraft being suspended from flying for the remaining period of the Exhibition.

6. ATC PROCEDURES AND FLYING DISPLAYS

6.1 DISPLAY AREA/AEROBATIC AREA

Special use area (SUA) restricted area around DWC, whose lateral and vertical limits are indicated in Appendix B (TBC), will be 'sterile' during rehearsal and display timings. (Refer to Special Use Airspace Restricted Area Appendix B). Aerobatic displays will be confined to an inner area called the 'Display box' indicated in Appendix C.

6.2 AIR TRAFFIC CONTROL

During the Flying Display, control will be exercised by the FCC at all times, on the discreet radio frequency allocated for this purpose. The authority of the FCC is absolute in that instructions given in the interest of safety, such as "abort take-off", "abort display", "clear the area", etc., are mandatory and must be complied with immediately.

Control of flying will be exercised by R/T using the English language and all pilots participating in the presentation of aircraft must be adequately fluent in this language.

6.3 R/T PHRASEOLOGY

Standard ICAO phraseology will be used. Limited R/T procedure for the purpose of the display will be defined at the daily briefings.

6.4 ORDER OF APPEARANCE

The order of appearance of flying display aircraft will be provided to participating pilots at the daily briefing.

6.5 TIMINGS

At the daily briefings, pilots will be informed of timings relevant to individual displays.

6.6 SEQUENCING PROCEDURE

Sequencing procedures will be defined daily at the pre-display briefing. Pilots must start up and taxi accordingly to make good their take-off times.

6.7 FUEL REQUIREMENTS

Whilst every effort will be made to sequence aircraft smoothly, disruptions may occur.

Pilots are required to carry sufficient fuel for their display and a minimum of 30 minutes reserve to cater for such disruptions. If, for any reason, this should not be possible or practical, the pilots concerned are to request an exemption to the rule from the FCC.

7. DIVERSION AERODROMES

In the unlikely event that the runway at Al Maktoum International Airport (DWC) is not available, then the primary diversion airfield for military aircraft will be Minhad Military Airfield (OMDM) and for civilian registered aircraft it will be Dubai International Airport (OMDB). If an aircraft is instructed to divert to Minhad, a radar control service will be provided by ATC, together with the weather and essential aerodrome information. Aerodrome data for both Minhad and Dubai International will be displayed in the FCC Operations room.

8. EJECTION AREA AND RESCUE FACILITIES

Any pilot with an emergency necessitating abandoning the aircraft but which is still controllable should set course for the Ejection Area shown in Appendix D (TBC -Subject to change)

- a. Whenever possible aircraft should be abandoned in straight flight and clear of populated areas, provided that this does not jeopardise the chance of successful abandonment.
- b. The pilot should set the aircraft controls to facilitate such that the aircraft impact in the designated area after he/she has abandoned it.
- c. The pilot should give the maximum possible warning of ejection to improve the chances of rescue.
- d. Rescue Facilities: A Search and Rescue helicopter will be on standby at Al Maktoum International Airport (DWC) throughout the period of the flying display to facilitate search and rescue requirements should they be needed.

9. AIRSPACE RESERVATION REQUEST - ARR

Units that represent airspace user entities that wish to utilize are identified as Approved Agencies (AAs) and are authorized by UAE Armed Forces GHQ.

Approved Agencies (AAs) are required to:

- a. Plan submission of airspace use activities in advance so as to be able to notify their needs for airspace to the dAMC (d) Airspace Management Cell (dAMC) on the day before the activity.
- b. Submit to the dAMC, on the day before the proposed activity (D -1), requests for airspace utilization and allocation.
- c. Ensure, on the day of the activity, that the airspace usage is in accordance with the dAMC's airspace allocation.
- d. Cancel any airspace allocation which is no longer required. Information is forwarded to the dAMC for the promulgation of an Updated Airspace Use Plan (UUP).
- e. Change previously promulgated airspace allocation by coordinating with dAMC the promulgation of a UUP
- f. Submit a new request for airspace allocation to the dAMC for the promulgation of a UUP.



10. SPECIAL EVENTS-SUA/TRA

In case of special events and/or special use airspace allocation requests, a promulgation of the allocated airspace into the Airspace Use Plan (AUP) is mandatory unless otherwise indicated by the Military Authority. The dAMC will book the airspace (SUA/TRA) on behalf of AAs and promulgate the planned activity as per AUP criteria. The below information shall be included:

- SUA Coordinates and related activity
- Vertical Limits
- Timing
- ATC unit of jurisdiction
- POC (Point of Contact)

11. ABBREVIATIONS AND ACRONYMS

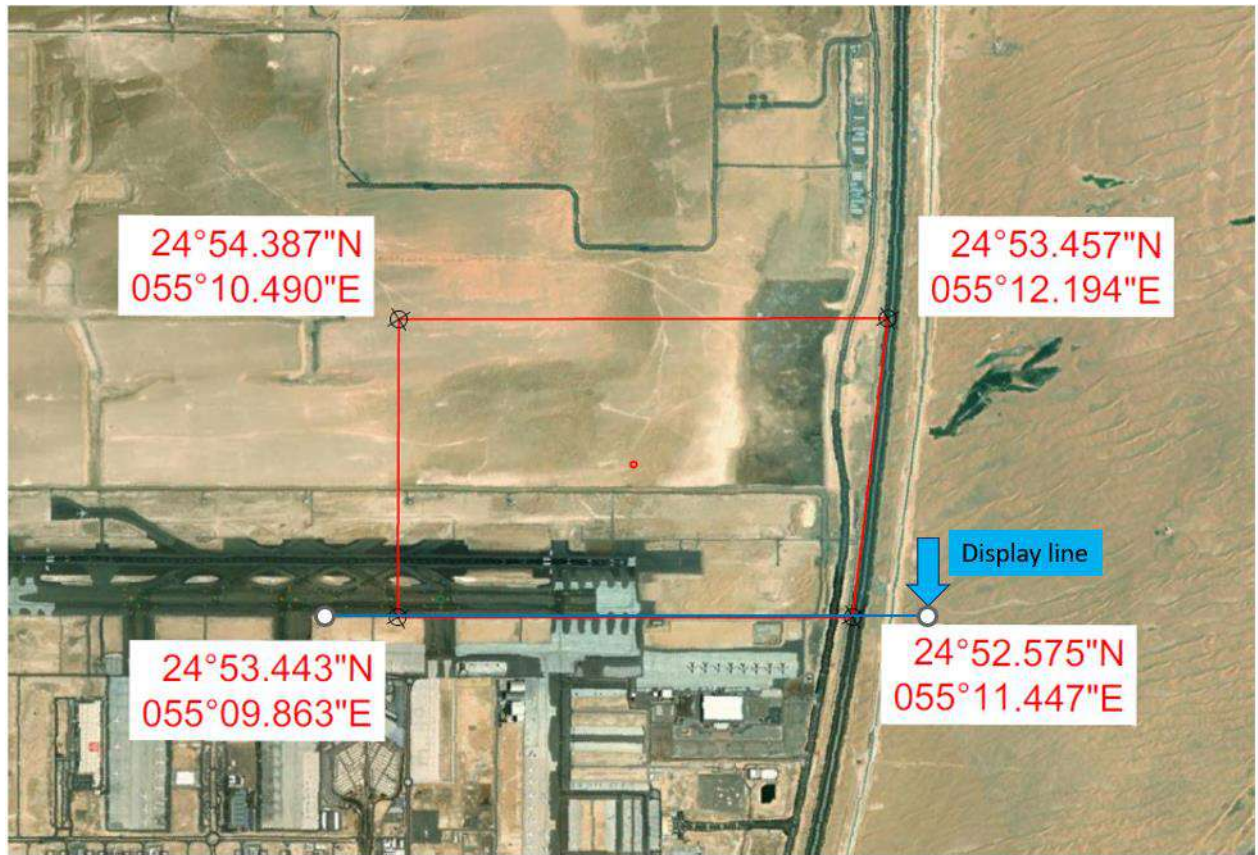
| Abbreviations & Acronym | Description |
|-------------------------|--|
| AA | Approved Agencies |
| AGL | Above Ground Level |
| AIP | Aeronautical Information Publications |
| AMC | Acceptable Means of Compliance Are standards adopted by the GCAA to illustrate means to establish compliance with the CAR's. An entity/or a person wishing not to comply with the AMC must comply using other means accepted by the Authority |
| ATC | Air Traffic Control |
| ARR | Airspace Reservation Request |
| dAMC | dans Airspace Management Cell |
| AUP | Airspace Use Plan |
| CAR | Civil Aviation Regulations |
| DWC | Dubai World Central |
| eVTOL | Electric Vertical Take-Off and Landing |



| | |
|------|--------------------------------------|
| FCC | Flying Control Committee |
| GCAA | UAE General Civil Aviation Authority |
| hr | Hours |
| LT | Local Time |
| POC | Point of Contact |
| SUA | Special Used Airspace |
| TBC | To Be Confirmed |
| UUP | Updated (Airspace) Use Plan |
| UAS | Unmanned Ariel System |

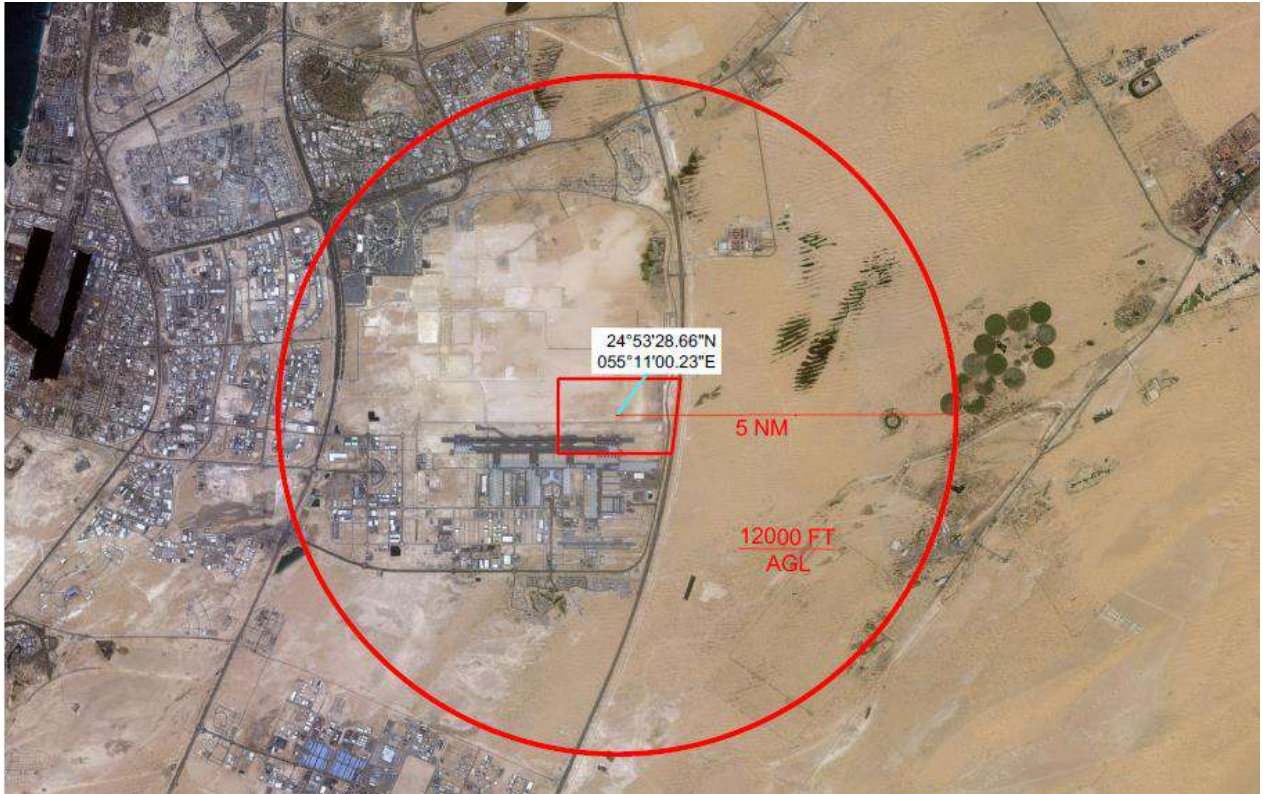
DISPLAY LINE

Appendix A (Subject to approval)



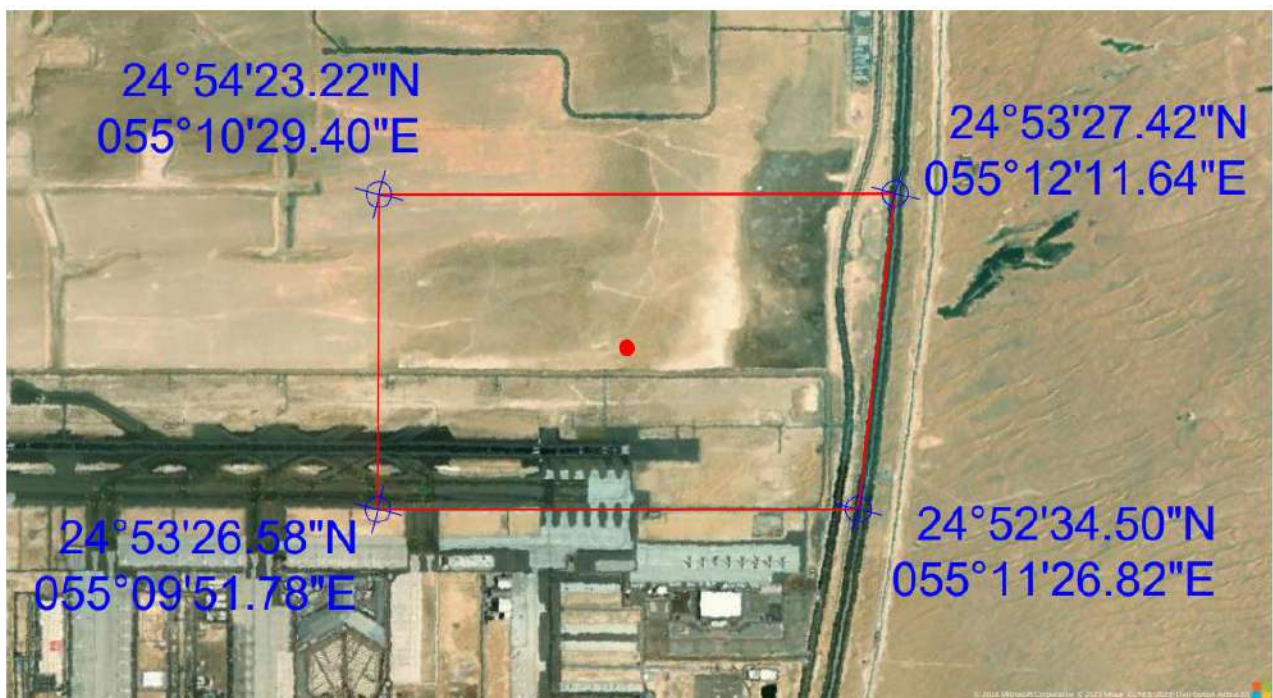
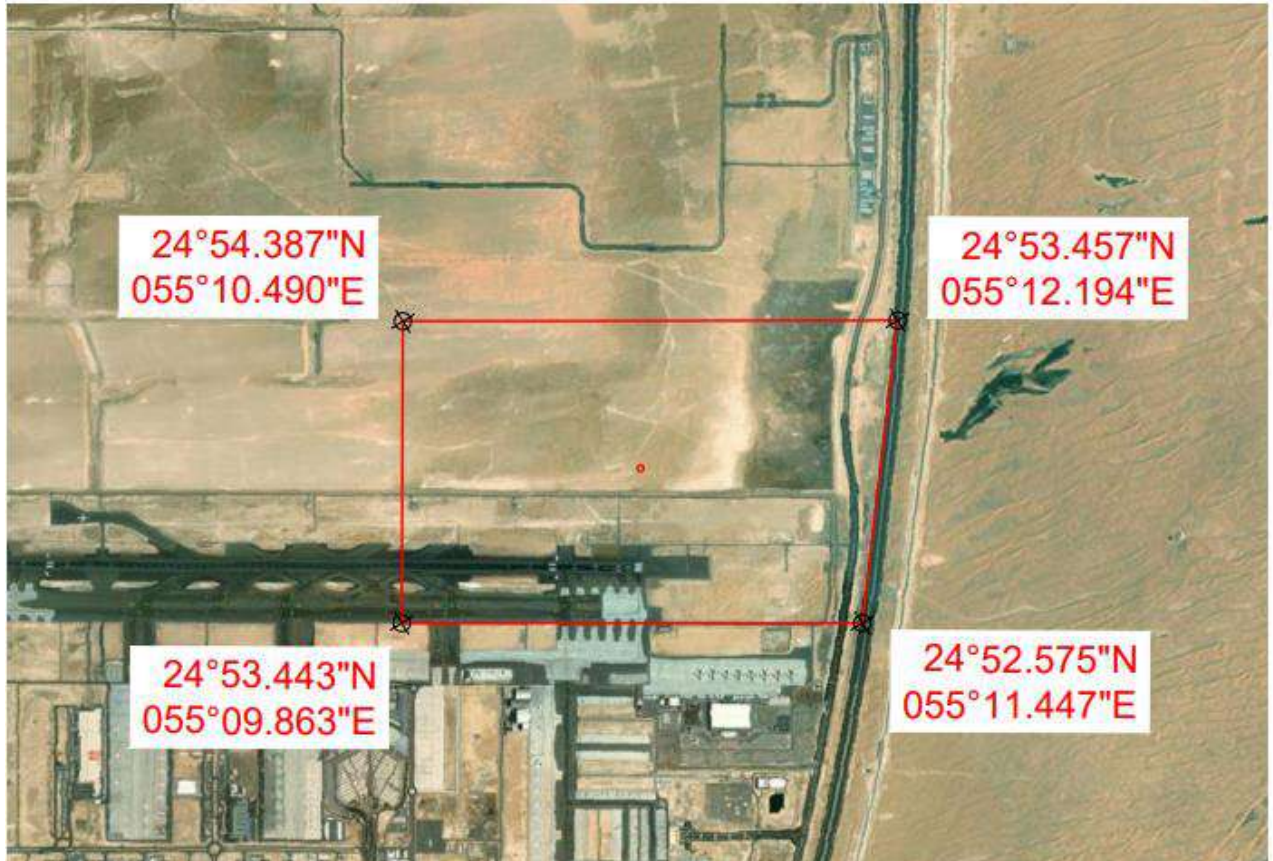
SPECIAL USE AIRSPACE

Appendix B



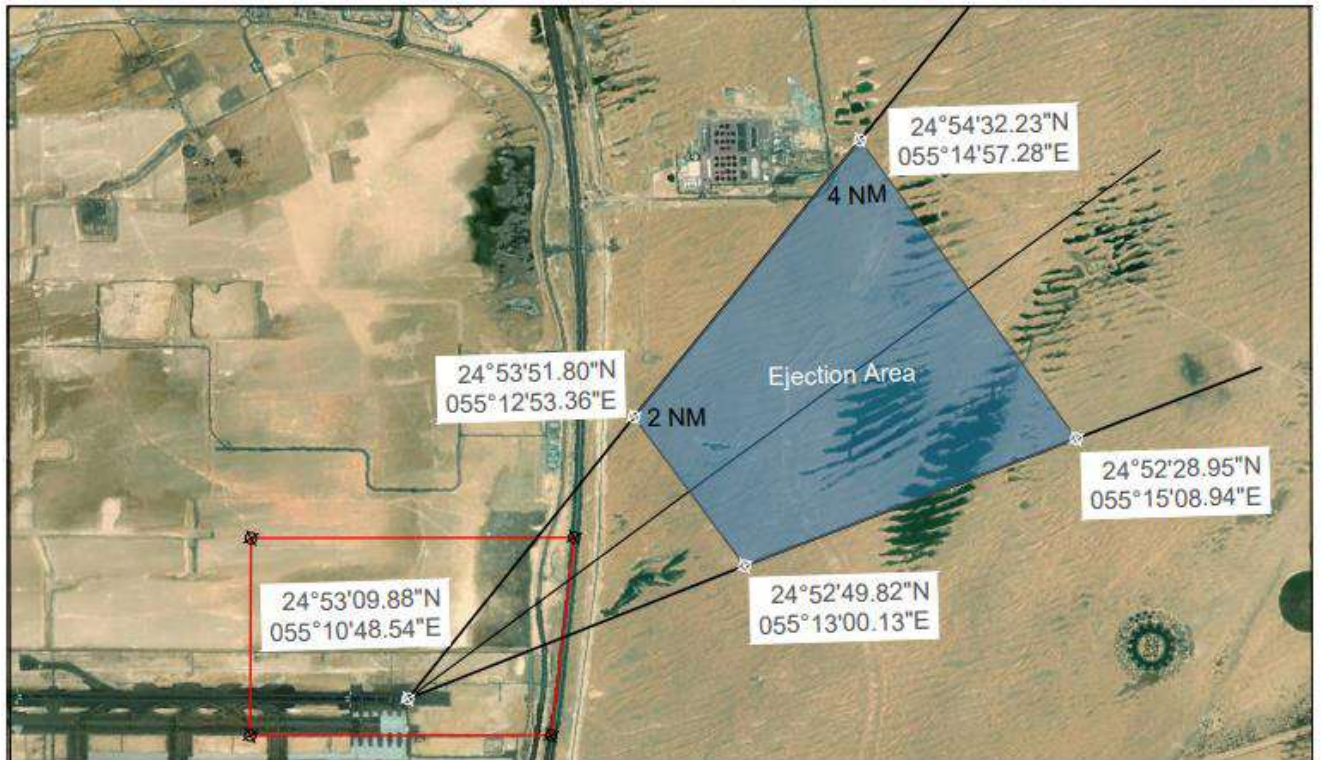
DISPLAY BOX

Appendix C



CONTROLLED EJECTION AREA

Appendix D (Subject to Change and TBC)



12. FUEL SUPPLIERS

| COMPANY | NAME | TELEPHONE | MOBILE | EMAIL |
|-------------------|--|----------------------------|-------------|--|
| Shell | Ziad Sousso | 04-3035275 | 050-6533572 | Ziad.soussou@shell.com |
| Shell | Mohamed El Fatatry | 04-303 5279 | 056-4049771 | Mohamed.Elfatatry@shell.com |
| Emarat | Lila Kazim Emojet Business Specialist | 04-4061524 & 04-3434444 | | Laila_kazim@emarat.ae |
| Emarat | Salem Bin Suloom Senior Manager Aviation Sales | 04-4061521 | 050-6449953 | Salem_BinSuloom@emarat.ae |
| Chevron | Santosh Kumar | 04-3133947 | 050-6402152 | skumar@chevron.com |
| ENOC | Ms Tatev Avetikyan | 04-3134641 | 050-2579008 | Tatev.avaxettkyan@enoc.com |
| BP Middle East | Mr. Michel Saba | 04-3079223 | 056-6034485 | michel.saba@uk.bp.com |
| ADNOC | Mohamed Mahfoudh | 02-6901420 | 050-6622273 | mohamed.mahfoudh@adnocdistribution.ae |
| ADNOC | Hareb Khamis Al Dhaheer | 02-6770469 | 050-6225536 | Hareb.alahaheri@adnoc-dist.ae |
| ADNOC | Mohd Ali Al Hosani | 02-6766424 02-6901422 | 050-3298932 | mohammed.ali@adnocdistribution.ae |

13. GROUND SUPPORT EQUIPMENT, SERVICES & DETAILING (GPU/ACU/GSE):

AEM INTERNATIONAL & AEM LOGISTICS

Official Ground Support

Equipment provider for Aircraft Detailing

Mr Ulrich Koch

Email: ukoch@aeminternational.com & support@aemlogistics.com

Office: +1 514 695 1331

Mob: +1 514 887 0798



AEM *group*
INTERNATIONAL | LOGISTICS
Est. 2003

DUBAI 2023 Airshow - Dubai, UAE.

November 13-17, 2023.

GPU Reservation Sheet, Static Display

Your Order Information

Ground Power Units

Final billing will reflect an additional **\$250** setup charge per unit.

| | Company | Space # | Quantity | Price / Unit | Total |
|--|----------------------|----------------------|----------------------|--------------|----------------------|
| 28V DC Unit 220V 3phase 25Amp 10 KVA (50 or 60Hz) | <input type="text"/> | <input type="text"/> | <input type="text"/> | \$3,950 | <input type="text"/> |
| AC 400hz Unit 380V 3phase 40Amp 30 KVA (50 or 60Hz) | <input type="text"/> | <input type="text"/> | <input type="text"/> | \$4,950 | <input type="text"/> |

*ELECTRICAL POWER TO SUPPORT EACH UNIT WILL NEED TO BE ORDERED SEPARATELY.
PLEASE REFER TO THE ELECTRICAL ORDER FORM TO PLACE YOUR ELECTRICAL REQUIREMENTS FOR EACH UNIT

Your company Information

(or paste business card here)

Company Name:

Address:

Contact Name:

Phone Number:

Fax Number:

For order confirmation please attach completed Method of Payment Form.

Please email your order to ukoch@aeminternational.com before October 13, 2023.

Availability and price per unit is not guaranteed after October 13, 2023.

For further information please contact Ulrich Koch at (514) 695 1331
or email: ukoch@aeminternational.com



Method Of Payment Form

NAME OF SHOW: _____
COMPANY NAME: _____ BOOTH: _____
ADDRESS: _____
PHONE #: _____ EXT: _____ FAX #: _____ E-MAIL: _____

Ensure all payments are received prior to the event

___ **COMPANY CHECK**

Please make check payable to: AEM Logistics. Checks must be in U.S. funds drawn on a U.S. or Canadian bank. ("**U.S. FUNDS**" MUST BE PRE-PRINTED on Canadian checks.)

___ **CREDIT CARD**

For your convenience, we will use this authorization to charge your credit card account for your advance orders, and any additional amounts incurred as a result of show site orders placed by your representative.

**** (VISA and Mastercard are only accepted)**

___ **BANK TRANSFER**

Royal Bank of Canada, 610 St. Jean Blvd., Pointe Claire, Quebec
Canada, H9R 3K2 - Institution number: # 003 - Transit: # 02755
Account # 07191-4001921 - ABA # 021000021

BIC/SWIFT* ROYCCAT2

Recipient: AEM Logistics Inc. (514) 695 1331

Please reference Name of Show and company name on all Bank Transfers so we may properly credit your account. **Note: Customers are responsible for any bank processing fees.**

MASTERCARD OR VISA

Account No: _____ Exp. Date: _____
Cardholder Name: (Print) _____ Signature: _____

Cardholder Billing Address: _____
City/State/Zip: _____

Total =



AEM group
INTERNATIONAL I LOGISTICS
Est. 2003

Static Electrical form
Deadline: October 13, 2023.

Stand name:

Invoice to
(Company Address)

Contact:

Tel.:

Fax:

E-mail:

Return to:

AEM International
40 Place Madison, Hudson, QC,
Canada, J0P 1HP

Fax: **1 514 695 1344**
Tel.: 1 514 695 1331
E-mail: ukoch@aeminternational.com

| Code | Refer to AEM's GPU-Aircon order forms for KVA requirements | | Unit price | | Total |
|---|--|--------|------------------------------|-------------------------------------|-------|
| | | | Price until Oct. 13, 2023 | After Oct. 13, 2023 ^① | |
| e321 | Main Electrical service, including generator and connections for air-conditioners and GPU, per KVA | ___KVA | \$195.00 | \$205.00 | _____ |
| 2EL-02134 | Additional Labor <input type="checkbox"/> Additional labor per hour | | \$104.00 | \$124.00 | _____ |
| ^① Orders received after October 13, 2023 are subject to additional charges Additional ^② Labor charges apply to equipment not supplied by AEM International | | | Total electrical | \$ _____ | |
| | | | Total additional labor | \$ _____ | |
| | | | Total amount | \$ _____ | |

Date: Signature:



DUBAI 2023 Airshow - Dubai, UAE.
November 13-17, 2023.

Air Conditioning Reservation Sheet, For Static Display

Your Order Information

Air Conditioning Units

Final billing will reflect an additional \$250 setup charge per unit.

| | Company | Space # | Quantity | Price / Unit | Total |
|---|---------|---------|----------|--------------|-------|
| 3 Ton Unit 220V 1phase 30amp 10KVA (60Hz) | | | | \$3,950 | |
| 5 Ton Unit 220V 1phase 30amp 10KVA (60Hz) | | | | \$4,950 | |

*ELECTRICAL POWER TO SUPPORT EACH UNIT WILL NEED TO BE ORDERED SEPARATELY.
PLEASE REFER TO THE ELECTRICAL ORDER FORM TO PLACE YOUR ELECTRICAL REQUIREMENTS FOR EACH UNIT

Your company Information

(or paste business card here)

Company Name:

Address:

Contact Name:

Phone Number:

Fax Number:

For order confirmation please attach completed Method of Payment Form.

Please email your order to ukoch@aeminternational.com before October 13, 2023.

Availability and price per unit is not guaranteed after October 13, 2023.

For further information please contact Ulrich Koch at (514) 695 1331
or email: ukoch@aeminternational.com



DAS2023: Aircraft Detailing Request Form

| Aircraft Model | Services Requested | Price |
|----------------|--------------------|-------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Total | |

***Pricing provided is based on event, aircraft type and services requested.**

Show Cleaning Includes:

- Interior detail and vacuum, cockpit cleaning and exterior detail prior to event.
- Interior and exterior touch-ups during event.
- Interior touch-up at conclusion of event.

Additional Services Available:

- Carpet Protection Film - replaced as needed during event.
- Brightwork - polishing of leading edges and engine inlets.
- Boots - to be cleaned and coated / shined.

****Further services are available at your request.***

Your company information:

| |
|---------------|
| Company Name: |
| Phone Number: |
| Fax Number: |

***For order confirmation please attach completed Method of Payment Form.**

Please email tharper@aemlogistics.com for service requests.

For further info please contact us at (514) 695 1331 or email: support@aemlogistics.com



DUBAI 2023 Airshow - Dubai, UAE.
November 13-17, 2023.

Air Conditioning Reservation Sheet, Static Display

Your Order Information

HIGH PRESSURE Air Conditioning Units

Final billing will reflect an additional \$250 setup charge per unit.

| | Company | Space # | Quantity | Price / Unit | Total |
|---------------|---------|---------|----------|--------------|-------|
| 50 Ton | | | | \$19,900 | |

High Pressure Unit

400V 3phase 100amp 70KVA (60Hz)

*ELECTRICAL POWER TO SUPPORT EACH UNIT WILL NEED TO BE ORDERED SEPARATELY.
PLEASE REFER TO THE ELECTRICAL ORDER FORM TO PLACE YOUR ELECTRICAL REQUIREMENTS FOR EACH UNIT

Your company Information

(or paste business card here)

Company Name:

Address:

Contact Name:

Phone Number:

Fax Number:

For order confirmation please attach completed Method of Payment Form.

Please email your order to ukoch@aeminternational.com before October 13, 2023.

Availability and price per unit is not guaranteed after October 13, 2023.

For further information please contact Ulrich Koch at (514) 695 1331
or email: ukoch@aeminternational.com



DUBAI 2023 Airshow - Dubai, UAE.
November 13-17, 2023.

Method Of Payment Form

NAME OF SHOW: _____

COMPANY NAME: _____ BOOTH#: _____

ADDRESS: _____
(STREET) (PO BOX)

PHONE # _____ EXT.: _____ FAX#: _____ E-MAIL: _____

ORDERED BY: _____ PRINT NAME: _____ DATE: _____

Ensure all payments are received prior to the event

COMPANY CHECK

Please make check payable to: AEM International. Checks must be in U.S. funds drawn on a U.S. or Canadian bank. ("U.S. FUNDS" MUST BE PRE-PRINTED on Canadian checks.)

CREDIT CARD

For your convenience, we will use this authorization to charge your credit card account for your advance orders, and any additional amounts incurred as a result of show site orders placed by your representative.

Please complete the information requested below:

MASTERCARD

VISA

Please add 4% for all credit card payments

Account No.: _____ Exp. Date: _____
 Personal Credit Card Company Credit Card

Cardholder Name: (Print) _____ Signature: _____

Cardholder Billing Address: _____

City/State/Zip: _____

E-mail Address for Invoice Notification: _____

BANK TRANSFER

Royal Bank of Canada (514)856 8900, 3131 Cote Vertu - Local F1 St-Laurent, Qc. Canada, H4R 1Y8 - Bank # 003 - Transit # 03051
Account # 400-444-6 - ABA # 021000021

BIC/SWIFT* ROYCCAT2

Recipient: AEM International (450) 424 2202

Please reference Name of Show and company name on all Bank Transfers so we may properly credit your account.
Note: Customers are responsible for any bank processing fees.

Total =



Jetex Executive Aviation DWC LLC: (Official FBO Agent)

Ossama Al Azem, FBO Manager
+971 56 171 7060 ossama.azem@jetex.com

Anas Agassi, FBO Operations Manager
+971 56 990 4255 anas.agassi@jetex.com

Operation 24/7
+971 50 440 6400 fbo-dwc@jetex.com

DAS team, Airshow mobile 08:00 till 20:00
+971 56 171 7225 das2023@jetex.com

Avantika Murthi, AVP - Process Excellence
+971 50 494 2404 processexcellence@jetex.com

Kamran Mulla, Ramp Supervisor
+971 56 171 7065 kamran.moula@jetex.com

Osama Shibly, Pricing & Procurement Manager
+971 56 433 45111 pricing@jetex.com

Sufiyan Asif, Director - Fuel Division
+971 56 171 7062 sufiyan.asif@fuelex.aero



A) DAS2023: Basic Ground Handling and Airport Services (all prices are in \$USD):

| Basic Ground Handling Charges | |
|--------------------------------------|-------------------------|
| MTOW in Ton | Stay over flight |
| 0-4 | 515 |
| 4.1-13 | 1067 |
| 13.1-35 | 1360 |
| 35.1-50 | 1995 |
| 50.1-90 | 2900 |
| 90+ | 3500 |
| Wide Bodied | 4000 |
| A380 | 4900 |
| Airport Services | |
| Landing/Take-off | Price per ton |
| Up to 4.5 | 3.7 |
| 4.5-45 | 4.2 |
| 45+ | 4.7 |

B) DAS2023: Ramp Services and Equipment (all prices are in \$USD):

| Ramp Service Equipment | | |
|------------------------------------|---------------------------|------|
| Additional labor (skilled) | Per person/per hour | 75 |
| Additional labor (unskilled) | Per person/per hour | 69 |
| Airside passes | Per pass | 300 |
| Enhance Safety Fee | Per passenger | 25 |
| Assistance for visa issue | Per service | 60 |
| ASU: Aircraft N-Bodied | Per aircraft start | 455 |
| ASU: Aircraft W-Bodied | Per aircraft start | 595 |
| Conveyor belt | Per hour or part there of | 375 |
| Customs & immigration charges | Per service | 232 |
| Chocks | Per Day | 250 |
| Dolly-trolley | Per hour or part there of | 67 |
| Filing flight plan | Per service | 20 |
| Forklift (5 ton) | Per hour or part there of | 300 |
| Forklift (12 ton) | Per hour or part there of | 365 |
| Headset | Per service | 125 |
| Nitrogen cart | Per use | 426 |
| Oxygen cart | Per use | 477 |
| Passenger fee | Per passenger | 39 |
| Provision of Wing Walker | Per service | 20 |
| Push back | Per push | 375 |
| Slot application | Per application | 35 |
| Slot modification | Per service | 15 |
| Steps (inside static area) | Per day | 2500 |
| Toilet services N-Bodied | Per service | 165 |
| Toilet services W-Bodied | Per service | 246 |
| Towing (above 30 tons) | Per one way tow | 595 |
| Towing (below 30 tons) | Per one way tow | 393 |
| Tractor (with driver) | Per hour or part there of | 191 |
| Water services | Per service | 193 |
| Steps (outside static area) | Per hour or part there of | 295 |
| ACU N-Bodied (outside static area) | Per hour or part there of | 400 |
| ACU W-Bodied (outside static area) | Per hour or part there of | 450 |
| GPU N-Bodied (outside static area) | Per hour or part thereof | 350 |
| Airside Bus Transportation | Per way | 250 |
| Airside Transport | Per way | 200 |

Other Terms and Conditions:

- A 9% disbursement fee will be added to all third party charges (for services not provided by Jetex)
- A 25% nighttime surcharge will be applied on ground handling charges for flights operating between 22:00 and 06:00 local time.
- FBO flight transfer charges: USD 750 per flight



HANDLING REQUEST FORM

Please complete and return all sections of this application form and return to das2023@jetex.com

Reservation Number:

Customer: Operator:

Billing To: Payment Method: Cash Credit

For handling confirmation, please advise the method of payment

Company Name: Company Address:
(As it will appear on exhibitor listing)

Contact Person: Job Title:

Tel.: Fax:

Website: Email:

Invoice Address: Company Address:
(If different)

Contact Person: Job Title:

Tel.: Fax:

Website: Email:

EXHIBITOR INFORMATION:

Additional Names:

Aircraft Type: Registration:

Call Sign: MTOW:

Schedule: ETA: ETD: Handler:

Static Stand Allocation Reference:

FOR OFFICE USE ONLY

Trip Number: Payment Method:

TCE Number:

Jetex FBO Terminal, Dubai South Aviation District, Dubai, UAE, P.O. Box 54698.
+971 4 212 4900 128.575MHz fbo-dwc@jetex.com jetex.com



OMDW — DUBAI / AL MAKTOUM INTERNATIONAL

*Note: The following sections in this chapter are intentionally left blank:
AD 2.21, AD 2.25.*

OMDW AD 2.1 AERODROME LOCATION INDICATOR AND NAME

OMDW — DUBAI / AL MAKTOUM INTERNATIONAL

OMDW AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

| | | |
|---|--|---|
| 1 | ARP coordinates and site at AD | 245506N 0551032E At centre of existing and future RWYs, perpendicular to midpoint of RWY 12 / 30 |
| 2 | Direction and distance from (city) | 20 NM SW of Dubai city |
| 3 | Elevation/Reference temperature | 171 FT / 44° C |
| 4 | Geoid undulation at AD ELEV PSN | -112 FT |
| 5 | MAG VAR/Annual change | 2° E (2020) / 0.05° E |
| 6 | AD Administration, address, telephone, telefax, telex, AFS | Post: Dubai Airports P.O. BOX 2525 DUBAI UNITED ARAB EMIRATES AIRPORT OPERATIONS CONTROL CENTRE Tel: +971 4 504 5000 Email: aocc@dubaiairports.ae Post: EFTA OPERATIONS CONTROL CENTRE Tel: +971 4 813 3513 Tel: +971 50 106 0790 (Mobile) Email: eftaocc@emirates.com |
| 7 | Types of traffic permitted (IFR/VFR) | IFR / VFR |
| 8 | Remarks | OMDW operates as a IATA level 2 slot coordinated airport. No operator shall operate to or from OMDW without first obtaining clearance from Airport Coordination Limited (ACL) and subject to landing permission from the DCAA. Schedules should be sent in IATA SSIM format to ACL in the time scales specified by the IATA schedules calendar to the address below. Email: slots@acl-international.com FAX: +44 (0) 208 564 0691 Aircraft greater in size than ICAO Code F (Wingspan Greater than 80 M) must provide 72 hour advance notice to the aerodrome in addition to a slot request to ACL. Email: Safeguarding-aim@dubaiairports.ae EFTA operates to the South of OMDW RWY 12/30. EFTA RWY 13/31 is not available for commercial aircraft. Operators are to be aware of high intensity training activities in this area |

OMDW AD 2.3 OPERATIONAL HOURS

| | | |
|----|----------------------------|--|
| 1 | AD Administration | 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 | NIL |
| 12 | Remarks | Prior approval required from EFTA Operations for non-EFTA flights. EFTA operates as per the below timings: 01 JAN – 31 MAY 0400 – 2000 UTC 01 JUN – 30 SEP 0200 – 1000 UTC and 1200 – 2000 UTC 01 OCT – 31 DEC 0300 – 1900 UTC Note: There will be no flying outside the above timings. |

OMDW AD 2.4 HANDLING SERVICES AND FACILITIES

| | | |
|---|---|---|
| 1 | Cargo-handling facilities | Complete semi - automatic facilities |
| 2 | Fuel/oil types | Jet A1: Emojet, ENOC, Shell, Air BP, Total, Chevron <i>Note: Chevron fuel must be arranged in advance. H24 telephone +971 50 5526 712</i> Oil: All grades |
| 3 | Fuelling facilities/capacity | Hydrant fuelling available, on all stands with the exception of: S804-S812, G100-G103 and G3-G16, EFTA: 11E-14E, 11W-14W, 21E-24E, 21W-24W, 31E-34E, 31W-34W, 41E-44E, 41W-44W, 51E-54E and 51W-54W. Limited bowser service also available. |
| 4 | De-icing facilities | NIL |
| 5 | Hangar space for visiting aircraft | NIL |
| 6 | Repair facilities for visiting aircraft | Limited available on request |
| 7 | Remarks | NIL |

OMDW AD 2.5 PASSENGER FACILITIES

| | | |
|---|----------------------|--|
| 1 | Hotels | Hotel accommodation available in Dubai City and Jebel Ali |
| 2 | Restaurants | H24 |
| 3 | Transportation | Taxis, buses and rental cars. |
| 4 | Medical facilities | Medical Centre at airport. Emirates Medical Centre (EFTA only). Hospitals in Dubai City and Jebel Ali. |
| 5 | Bank and Post Office | ATM available, Post Office N/A |
| 6 | Tourist Office | NIL |
| 7 | Remarks | Limited PAX handling capacity for diverted flight. |

OMDW AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

| | | |
|---|-------------------------------|--|
| 1 | AD category for fire fighting | CAT 9 (CAT 10 on request). EFTA: CAT 3. |
| ← | 2 | Rescue equipment |
| | | Rescue & Firefighting Vehicles: <ul style="list-style-type: none"> • 3 MFV • 1 ICV • 1 MICC • 1 Hose Layer Vehicle • 1 Rescue Stairs • EFTA: 1 MFV • 1 MFV for RFFS CAT 10 upgrades (available 24/7) • 2 MFV to cover maintenance and emergency breakdown resilience • 1 ICV to cover maintenance • EFTA: 1 Airside Fire Station in operation |
| | 3 | Capability for removal of disabled aircraft |
| | | Lifting and hydraulic jacks supplied through SLA (Service Level Agreement) with Emirates Airlines for aircraft sizes upto and including A380, 2 stored in the Main Fire Station (Airside) |
| | 4 | Remarks |
| | | NIL |

OMDW AD 2.7 SEASONAL AVAILABILITY - CLEARING

| | | |
|---|-----------------------------|--|
| 1 | Types of clearing equipment | NIL |
| 2 | Clearance priorities | NIL |
| 3 | Remarks | Aerodrome is available all season. There is no requirement for clearing. |

OMDW AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

| | | |
|---|---|---|
| 1 | Apron surface and strength | Refer Table 1 for Apron details |
| 2 | Taxiway width, surface and strength | Refer Table 2 for Taxiway details |
| 3 | Altimeter checkpoint location and elevation | Individual stands serve as altimeter checkpoint locations See AIRCRAFT PARKING/DOCKING CHARTS. |
| 4 | VOR checkpoints | NIL |
| 5 | INS checkpoints | see Parking /Docking Charts |

| | | |
|---|---------|--|
| 6 | Remarks | <p>Aircraft Code Restrictions / Engines Runs / Compass Swing / Speed Restrictions</p> <ul style="list-style-type: none"> All taxiways/taxilanes are code F compliant except for taxiways TXL Z9, TXL Z10, TXL Z13, TXL Z14, TXL Z15, TXL Z16, TXL Z17, TXL Z20, TWY Z91 and TWY Z92 which are code C. EFTA High Power Engine Runs: Stand 51W for Cirrus SR22 and TWY A for all other aircraft are the only permitted locations for high power engine runs. Code D, E and F aircraft requiring access to TWY U4 for engine runs must do so under tow only. Powered movements are not allowed. Pilots must follow ATC instructions. Pilots on code C and below aircraft must be aware that they will see ground markings late due to their size (for Code F aircraft). All EFTA taxiways/taxilanes: Code B compliant except for TWY Z12S, which is Code A. Code B aircraft not allowed to hold simultaneously at TWY A1 and TWY A2 and/or TWY A6 and TWY A7. A compass swing testing area is provided on TWY U; however, Dubai Airports cannot provide assurance that the location continues to be free from any magnetic disturbance and the airlines operators assume any risks associated with performing compass swing tests on this area. To aid in situational awareness and to improve identification and visual acuity of ground markings and signage, it is recommended that air operators not exceed 30 knots on linear taxiways and 10 knots on turns. <p>Aircraft Turns:</p> <ul style="list-style-type: none"> Operators vacating RWY 12/30 at any RET are not to conduct 90 degree turns onto TWY V as there is no marking or lighting to allow this turn. Operators often confuse ATC instructions onto TWY W8 to TWY W15 with turning 90 degrees onto TWY V. The manoeuvring area is a wide space with little environmental contrast therefore taxiway incursions are likely. Pilots must adhere to CL at all times. Turns greater than 90 degrees are NOT permitted. Operators are to ensure that when vacating the RWY 12/30 on a Rapid Exit Taxiway that they do not inadvertently turn back on to the RWY 12/30 using the adjacent Rapid Exit Taxiway. <p>Wingtip Clearance:</p> <ul style="list-style-type: none"> TWY Z minimum wingtip clearance reduced to 50.8 M abeam Stands S340-S348L and S440R- S448 |
|---|---------|--|

| Apron Designation | Surface | PCN | Notes |
|-------------------|------------------|------------|---|
| S2 | Concrete | 72/R/B/W/T | |
| S3 | Concrete | 90/R/A/W/T | Stand H1 available for Dubai Police Airwing helicopter operations only. Stands H2 and H3 available for Aerogulf Services only. |
| S4 | Concrete | 90/R/A/W/T | |
| S8 | Concrete | 90/R/A/W/T | |
| G (1-20A) | Concrete | 62/R/B/W/T | G10-G11; G14-G15 and G17-G20A box stands |
| G (100-103) | Concrete | 86/R/B/W/T | Box stands |
| APRON 1 | Interlock paving | 6/R/B/Y/T | Aircraft can park on each stand either east or west. |
| APRON 2 | Interlock paving | 6/R/B/Y/T | Aircraft can park on each stand either east or west. |
| APRON 3 | Interlock paving | 6/R/B/Y/T | Aircraft can park on each stand either east or west. |
| APRON 4 | Interlock paving | 6/R/B/Y/T | Aircraft can park on each stand either east or west. |
| APRON 5 | Interlock paving | 6/R/B/Y/T | Aircraft can park on each stand either east or west. |

Aprons Restrictions:

- APRON 1 - APRON 5 are exclusive for EFTA use only, unless approved by Dubai Airports.

Table 1: Apron details

| Designation | ICAO Code | Length (M) ⁽¹⁾ | Width (M) | Shoulder either side (M) | Strip (M) (minimum) | Surface | PCN |
|-------------|-----------|---------------------------|-----------|--------------------------|---------------------|----------|-------------|
| TWY U | F | 424 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY U4 | F | 765 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY V | F | 4526 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | | 25 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY V1 | F | 200 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | 83 | 25 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY V2 | F | 202 | 30 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | 84 | 30 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY V3 | F | 204 | 30 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | 84 | 30 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY V4 | F | 203 | 30 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | 84 | 30 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY V6 | F | 566 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY V7 | F | 571 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY V8 | F | 568 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY V9 | F | 570 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY V10 | F | 449 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY V11 | F | 567 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY V12 | F | 568 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY V13 | F | 560 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY V16 | F | 246 | 30 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | | 30 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY V17 | F | 289 | 30 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | | 30 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY V18 | F | 286 | 30 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | | 30 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY V19 | F | 285 | 30 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | | 30 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY V20 | F | 283 | 30 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | | 30 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY V21 | F | 285 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | | 25 | 18 | 115 | Concrete | 120/R/A/W/T |
| TWY W | F | 4526 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | | 25 | 18 | 115 | Concrete | 120/R/B/W/T |
| TWY W1 | F | 100 | 25 | 18 | 115 | Concrete | 140/R/B/W/T |
| TWY W2 | F | 100 | 55 | 18 | 115 | Concrete | 140/R/B/W/T |
| TWY W4 | F | 100 | 54 | 18 | 115 | Concrete | 140/R/B/W/T |
| TWY W7 | F | 413 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY W8 | F | 412 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |

** Crossover Taxiway

⁽¹⁾ Calculated Values: Taxiway lengths are measured along the surveyed taxiway centre lines, including around curves. Where the centre lines split into multiple curves at taxiway intersections, the straight parts of the centre lines may be extrapolated to the point of intersection with adjoining centre lines, and the lengths measured from these points.

Taxiways Restrictions:

1. TXL Z13 only available during special events or with prior approval from Dubai Airports.
2. Pilots who are unfamiliar with OMDW should advise ATC on first taxi.
3. There is a change in gradient of 2.5% when crossing TWY V from TWY W1 and between TWY W16, TWY W17 to TWY W21. Additional engine thrust may be required. Following aircraft should maintain a safe distance.
4. TWY A, TWY A1 to TWY A7, TWY Z12S and TXL L1 to TXL L6 are exclusive for EFTA use only, unless approved by Dubai Airports.
5. Aircraft are not permitted to carry 180° turn on a taxiway. In some circumstances, depending on aircraft type, taxiway width and location, Airside Operations may approve such manoeuvre with the assistance of a marshaller.
6. After landing, aircraft shall vacate and proceed straight on TWY V in direction of the landing runway. Acute turns from rapid exit taxiways towards the opposite landing direction are not allowed. See [Table 3: Taxiway Turn Restrictions](#).

Table 2: Taxiway details

| Designation | ICAO Code | Length (M) ⁽¹⁾ | Width (M) | Shoulder either side (M) | Strip (M) (minimum) | Surface | PCN |
|-------------|-----------|---------------------------|-----------|--------------------------|---------------------|----------|-------------|
| TWY W9 | F | 100 | 54 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY W10 | F | 413 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY W11 | F | 413 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY W12 | F | 100 | 54 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY W13 | F | 100 | 54 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY W14 | F | 413 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY W15 | F | 413 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| TWY W16 | F | 184 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | 228 | 25 | 18 | 115 | Concrete | 140/R/A/W/T |
| TWY W17 | F | 185 | 37 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | 228 | 37 | 18 | 115 | Concrete | 140/R/A/W/T |
| TWY W18 | F | 84 | 38 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | 229 | 38 | 18 | 115 | Concrete | 140/R/A/W/T |
| TWY W19 | F | 313 | 37 | 18 | 115 | Concrete | 140/R/A/W/T |
| TWY W20 | F | 313 | 37 | 18 | 115 | Concrete | 140/R/A/W/T |
| TWY W21 | F | 413 | 25 | 18 | 115 | Concrete | 140/R/A/W/T |
| TWY Z | F | 4544 | 25 | 18 | 115 | Asphalt | 140/F/A/X/T |
| | F | | 25 | 18 | 115 | Concrete | 90/R/A/W/T |
| TXL Z5 | F | 1213 | 25 | | | Concrete | 72/R/B/W/T |
| TXL Z6 | F | 1213 | 25 | | | Concrete | 90/R/A/W/T |
| TXL Z7 | F | 1212 | 25 | | | Concrete | 90/R/A/W/T |
| TXL Z8 | F | 1213 | 25 | | | Concrete | 90/R/A/W/T |
| TXL Z9 | C | 872 | 18 | | | Concrete | 86/R/B/W/T |
| TXL Z10 | C | 872 | 18 | | | Concrete | 86/R/B/W/T |
| TXL Z11 | F | 1514 | 25 | | | Concrete | 86/R/B/W/T |
| TXL Z12 | F | 1525 | 25 | | | Asphalt | 71/F/B/W/T |
| TXL Z13 | C | 443 | 18 | | | Asphalt | 55/F/B/W/T |
| TXL Z14 | C | 542 | 18 | | | Asphalt | 55/F/B/W/T |
| TXL Z15 | C | 573 | 18 | | | Asphalt | 55/F/B/W/T |
| TXL Z16 | C | 432 | 31 | | | Asphalt | 55/F/B/W/T |
| TXL Z17 | C | 432 | 31 | | | Asphalt | 55/F/B/W/T |
| TXL Z20 | C | 573 | 18 | | | Asphalt | 55/F/B/W/T |
| TXL Z21 | F | 100 | 54 | | | Concrete | 86/R/B/W/T |
| TXL Z22 | F | 100 | 54 | | | Concrete | 86/R/B/W/T |
| TXL Z23 | F | 100 | 54 | | | Concrete | 86/R/B/W/T |
| TXL Z24 | F | 100 | 26 | | | Concrete | 86/R/B/W/T |
| TWY Z51** | F | 312 | 25 | 18 | | Concrete | 72/R/B/W/T |
| TWY Z52** | F | 312 | 25 | 18 | | Concrete | 72/R/B/W/T |
| TWY Z53** | F | 315 | 25 | 18 | | Concrete | 72/R/B/W/T |

** Crossover Taxiway

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Taxiways Restrictions:

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2. Pilots who are unfamiliar with OMDW should advise ATC on first taxi.
3. There is a change in gradient of 2.5% when crossing TWY V from TWY W1 and between TWY W16, TWY W17 to TWY W21. Additional engine thrust may be required. Following aircraft should maintain a safe distance.
4. TWY A, TWY A1 to TWY A7, TWY Z12S and TXL L1 to TXL L6 are exclusive for EFTA use only, unless approved by Dubai Airports.
5. Aircraft are not permitted to carry 180° turn on a taxiway. In some circumstances, depending on aircraft type, taxiway width and location, Airside Operations may approve such manoeuvre with the assistance of a marshaller.
6. After landing, aircraft shall vacate and proceed straight on TWY V in direction of the landing runway. Acute turns from rapid exit taxiways towards the opposite landing direction are not allowed. See [Table 3: Taxiway Turn Restrictions](#).

Table 2: Taxiway details

| Designation | ICAO Code | Length (M) ⁽¹⁾ | Width (M) | Shoulder either side (M) | Strip (M) (minimum) | Surface | PCN |
|-------------|-----------|---------------------------|-----------|--------------------------|---------------------|------------------|------------|
| TWY Z54** | F | 315 | 25 | 18 | | Concrete | 72/R/B/W/T |
| TWY Z71** | F | 308 | 25 | 18 | | Concrete | 90/R/B/W/T |
| TWY Z72** | F | 308 | 25 | 18 | | Concrete | 90/R/B/W/T |
| TWY Z73** | F | 308 | 25 | 18 | | Concrete | 90/R/B/W/T |
| TWY Z74** | F | 308 | 25 | 18 | | Concrete | 90/R/B/W/T |
| TWY Z91** | C | 187 | 18 | 4 | | Concrete | 86/R/B/W/T |
| TWY Z92** | C | 185 | 18 | 4 | | Concrete | 86/R/B/W/T |
| TWY A | B | 1827 | 10 | N/A | 40 | Asphalt | 6/F/B/Y/T |
| TWY A1 | B | 121 | 10 | N/A | 31 | Asphalt | 6/F/B/Y/T |
| TWY A2 | B | 118 | 11 | N/A | 31 | Asphalt | 6/F/B/Y/T |
| TWY A3 | B | 201 | 11 | N/A | 40 | Asphalt | 6/F/B/Y/T |
| TWY A4 | B | 104 | 12 | N/A | 40 | Asphalt | 6/F/B/Y/T |
| TWY A5 | B | 201 | 11 | N/A | 40 | Asphalt | 6/F/B/Y/T |
| TWY A6 | B | 120 | 11 | N/A | 31 | Asphalt | 6/F/B/Y/T |
| TWY A7 | B | 120 | 10 | N/A | 31 | Asphalt | 6/F/B/Y/T |
| TWY Z12S | A | 253 | 11 | N/A | 31 | Asphalt | 6/F/B/Y/T |
| TXL L1 | B | 116 | 24 | N/A | | Interlock paving | 6/R/B/Y/T |
| TXL L2 | B | 116 | 27 | N/A | | Interlock paving | 6/R/B/Y/T |
| TXL L3 | B | 116 | 34 | N/A | | Interlock paving | 6/R/B/Y/T |
| TXL L4 | B | 116 | 25 | N/A | | Interlock paving | 6/R/B/Y/T |
| TXL L5 | B | 131 | 32 | N/A | | Interlock paving | 6/R/B/Y/T |
| TXL L6 | B | 116 | 24 | N/A | | Interlock paving | 6/R/B/Y/T |

** Crossover Taxiway

⁽¹⁾ Calculated Values: Taxiway lengths are measured along the surveyed taxiway centre lines, including around curves. Where the centre lines split into multiple curves at taxiway intersections, the straight parts of the centre lines may be extrapolated to the point of intersection with adjoining centre lines, and the lengths measured from these points.

Taxiways Restrictions:

1. TXL Z13 only available during special events or with prior approval from Dubai Airports.
2. Pilots who are unfamiliar with OMDW should advise ATC on first taxi.
3. There is a change in gradient of 2.5% when crossing TWY V from TWY W1 and between TWY W16, TWY W17 to TWY W21. Additional engine thrust may be required. Following aircraft should maintain a safe distance.
4. TWY A, TWY A1 to TWY A7, TWY Z12S and TXL L1 to TXL L6 are exclusive for EFTA use only, unless approved by Dubai Airports.
5. Aircraft are not permitted to carry 180° turn on a taxiway. In some circumstances, depending on aircraft type, taxiway width and location, Airside Operations may approve such manoeuvre with the assistance of a marshaller.
6. After landing, aircraft shall vacate and proceed straight on TWY V in direction of the landing runway. Acute turns from rapid exit taxiways towards the opposite landing direction are not allowed. See [Table 3: Taxiway Turn Restrictions](#).

Table 2: Taxiway details

| Designation | Turn Restrictions |
|-------------|--|
| TWY V4 | Heading South right turn onto TWY V not AVBL |
| TWY V6 | Heading West left turn onto TWY V not AVBL |
| TWY V7 | Heading East right turn onto TWY V not AVBL |
| TWY V8 | Heading West left turn onto TWY V not AVBL |
| TWY V9 | Heading East right turn onto TWY V not AVBL |
| TWY V10 | Heading West left turn onto TWY V not AVBL |
| TWY V11 | Heading East right turn onto TWY V not AVBL |
| TWY V12 | Heading West left turn onto TWY V not AVBL |
| TWY V13 | Heading East right turn onto TWY V not AVBL |
| TWY W17 | Heading North left turn onto TWY W not AVBL |
| | Heading North left/right turns onto TWY V not AVBL |
| | Heading South left turn onto TWY W not AVBL |

Table 3: Taxiway Turn Restrictions

OMDW 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 | See OMDW AD 2.23.3 |
| 2 | RWY and TWY markings and lights | <p>RWY 12/30 markings: Full ICAO runway designation, side stripes, pre-THR, transverse stripe, CL, TDZ, aiming point.</p> <p>RWY 13/31 markings: Full ICAO runway designation, side stripes, displaced THR, transverse stripe, CL, TDZ, aiming point.</p> <p>TWY markings: continuous yellow CL, double yellow edge lines and transverse yellow striping on corners and curves, excluding TWY A, TWY A1, TWY A2, TWY A3, TWY A4, TWY A5, TWY A6, TWY A7 and TWY Z12S no transverse striping on corners and curves.</p> <p>CAT II / III holding positions: Yellow pattern B</p> <p>CAT I holding positions: Yellow Pattern A</p> <p>IHP markings: Dashed Yellow</p> <p>TWY LGT: LIH yellow RETIL with 2 M lateral spacing at distances of 300 M (3 lights), 200 M (2 lights) and 100 M (1 light) from the RET point of tangency.</p> |
| 3 | Stop bars and runway guard lights | <p>Stop bar LGT: Variable intensity red uni-directional inset with additional pair of elevated edge lights are located at all lead-in TWYs and linked to intrusion sensor for RWY.</p> <p>RWY guard LGT: RWY holding positions are provided with a pair of yellow flashing lights on either side of the Stop bar.</p> <p>IHP LGT: A set of three variable intensity yellow inset lights are provided at all intermediate TWY holding positions.</p> |
| 4 | Remarks | NIL |

OMDW AD 2.10 AERODROME OBSTACLES

To acquire Area 2 electronic obstacle data, contact details are available in [GEN 3.1.6](#)

Electronic obstacle data for Area 3 are not available.

| In approach/TKOF areas | | | | | |
|-------------------------------|---------------|----------------------|-------------------------------|------------------------------------|---------|
| Obstacle ID / Designation | Obstacle type | Obstacle Position | Elevation (FT) Height (FT) | Markings Lighting Type / Colour | Remarks |
| OMDW 6183 / 30_LOC_FFM | NAVAID | 245304.6N 0551058.1E | 183 16 | Yes NIL / NIL | 12 TOCS |
| OMDW 2872 / 30_LOC | NAVAID | 245431.4N 0550822.8E | 125 14 | Yes STD / RED | 30 TOCS |
| OMDW 2873 / 30_LOC | NAVAID | 245430.1N 0550821.9E | 125 14 | Yes STD / RED | 30 TOCS |
| OMDW 6195 / 12_LOC_FFM | NAVAID | 245431.0N 0550821.9E | 126 15 | Yes NIL / NIL | 30 TOCS |
| OMDW 2887 / APPROACH_LIGHT | NAVAID | 245141.9N 0551007.6E | 162 3 | No NIL / NIL | 13 TOCS |
| OMDW 2890 / APPROACH_LIGHT | NAVAID | 245216.1N 0550905.9E | 162 16 | No NIL / NIL | 31 TOCS |
| OMDW 16136 / 31_LOC_NFM | NAVAID | 245215.8N 0550906.4E | 161 6 | Yes NIL / NIL | 31 TOCS |

| In circling area and at AD | | | | | |
|------------------------------------|---------------|----------------------|-------------------------------|-------------------------------------|---------|
| Obstacle ID / Designation | Obstacle type | Obstacle Position | Elevation (FT) Height (FT) | Markings Lighting Type/Colour | Remarks |
| OMDW AD 2713 / ATC_TOWER_AERIAL | BUILDING | 245320.0N 0550926.2E | 443 310 | Yes STD / RED | NIL |
| OMDW AD 6184 / 12_GP_MAST | NAVAID | 245424.0N 0550842.9E | 172 59 | Yes STD / RED | NIL |
| OMDW AD 6196 / 30_GP_MAST | NAVAID | 245319.0N 0551040.4E | 221 59 | Yes STD / RED | NIL |
| OMDW AD 2574 / 31_GP_MAST | NAVAID | 245154.3N 0550953.4E | 207 53 | Yes STD / RED | NIL |
| OMDW AD 2585 / TOWER_AERIAL | BUILDING | 245203.4N 0550944.2E | 229 71 | Yes NIL / NIL | NIL |
| OMDW AD 2589 / FLOODLIGHT | POLE | 245204.2N 0550942.8E | 229 73 | No STD / RED | NIL |
| OMDW AD 8875 / WINDSLEEVE | NAVAID | 245209.7N 0550923.0E | 174 20 | Yes STD / RED | NIL |
| OMDW AD 8876 / WINDSLEEVE | NAVAID | 245146.1N 0550954.5E | 171 20 | Yes STD / RED | NIL |
| OMDW AD 8877 / MET_MAST | NAVAID | 245208.8N 0550923.8E | 187 35 | No STD / RED | NIL |
| OMDW AD 8879 / MET_MAST | NAVAID | 245154.0N 0550950.9E | 190 33 | No STD / RED | NIL |

OMDW AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

| | | |
|----|---|--|
| 1 | Associated MET Office | Dubai MET |
| 2 | Hours of service MET Office outside hours | H24 NIL |
| 3 | Office responsible for TAF preparation Periods of validity | Dubai MET 30 HR, issued every 6 HR |
| 4 | Trend forecast and Interval of issuance | TREND H24, issued every 1/2 HR |
| 5 | Briefing/consultation provided | T, D Internet |
| 6 | Flight documentation Language(s) used | C, TB English |
| 7 | Charts and other information available for briefing or consultation | P ₅₀₋₄₅₀ , SWH, SWM, SWL |
| 8 | Supplementary equipment available for providing information | Satellite Imagery, Weather Radar |
| 9 | ATS units provided with information | OMDW |
| 10 | Additional information (limitation of service, etc.) | Tel: +971 4 504 2990 Tel: +971 4 504 2987 Wind Shear Warnings. Refer to OMDW AD 2.23.6 |

Abbreviations (from Doc 8126)

P = Personal, T = Telephone, D = Self-Briefing Display, C = Charts,
TB = Tabular Data, P₅₀₋₄₅₀ = Prognostic Upper Air Chart FL50-FL450,
SWH = Significant Weather High (Chart), SWM = Significant Weather Medium (Chart),
SWL = Significant Weather Low (Chart) Internet: www.avmet.ae - Registration required

| Mean daily maximum and minimum temperatures (°C) for each month of the year | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| Maximum | 25 | 27 | 30 | 35 | 40 | 42 | 44 | 44 | 42 | 37 | 31 | 27 |
| Minimum | 13 | 14 | 17 | 21 | 24 | 27 | 30 | 30 | 28 | 23 | 18 | 15 |

OMDW AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations RWY NR | TRUE & MAG BRG | Dimensions of RWY(M) | Strength (PCN) and surface of RWY and SWY | THR coordinates RWY end coordinates THR geoid undulation | THR elevation and highest elevation of TDZ of precision APP RWY |
|------------------------|-------------------|-------------------------|---|---|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 12 | 121° / 119° | 4500 x 60 | 140/F/A/X/T Asphalt | 245425.74N 0550831.45E -111.5 FT | 115.2 FT 118.4 FT |
| 30 | 301° / 299° | 4500 x 60 | 140/F/A/X/T Asphalt | 245309.88N 0551048.54E -111.5 FT | 170.7 FT 170.7 FT |
| 13 | 121° / 119° | 1838 x 30 | 6/F/B/Y/T Asphalt | 245211.90N 0550913.41E 245143.45N 0551004.82E -111.5 FT | 155.4 FT NIL |
| 31 | 301° / 299° | 1838 x 30 | 6/F/B/Y/T Asphalt | 245145.98N 0551000.25E 245214.43N 0550908.84E -111.5 FT | 155.4 FT 155.0 FT |

| Slope of RWY-SWY | | SWY dimensions (M) | CWY dimensions (M) | Strip dimensions (M) | RESA (M) | Arresting system |
|------------------|--|-----------------------|-----------------------|-------------------------|-----------|---------------------|
| 7 | | 8 | 9 | 10 | 11 | 12 |
| 12 | +0.11% (first 1762.5 M) +0.5% (next 2737.5 M) | NIL | NIL | * x 280 | 240 x 150 | Not Implemented |
| 30 | -0.5% (first 2737.5 M) -0.11% (next 1762.5 M) | NIL | NIL | * x 280 | 240 x 150 | |
| 13 | 0% | NIL | NIL | * x 140 | 120 x 80 | |
| 31 | | NIL | NIL | * x 140 | 120 x 80 | |

| Obstacle Free Zone | | Remarks |
|--------------------|--|---|
| 13 | | 14 |
| 12 | Provided in compliance with UAE Civil Aviation Regulations, Part IX, 4.18 - SAFEGUARDING OF AERODROME SURROUNDINGS and in accordance with ICAO Annex 14, Chapter 4 Compliant with PANS-OPS Volume II | 1. RWY 12/30 will be closed for planned maintenance every Monday from 1100 to 1400 UTC |
| 30 | | 2. RWY 12/30: Aircraft up to and including B737/A320 size are permitted to carry out 180° turns. Any larger aircraft must vacate the runway and use taxiways as instructed for repositioning. |
| 13 | | 3. RWY 13/31 will be closed daily in accordance with the below timings: 01 JAN - 31 MAY 2000 - 0400 UTC 01 JUN - 30 SEP 2000 - 0200 UTC and from 1000 - 1200 UTC 01 OCT - 31 DEC 1900 - 0300 UTC |
| 31 | | 4. RWY 13/31 exclusively used for EFTA approved operations. 5. RWY strip surface for both runways are asphalt & compacted earth 6. RWY 13/31 THR displaced by 150 M 7. Strip dimensions RWY 12/30: * 280 M wide over full length extending to 60 M beyond each end of pavement. 8. Strip dimensions RWY 13/31: * 140 M wide over full length extending to 60 M beyond each end of pavement. |

OMDW AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA (M) | TODA (M) | ASDA (M) | LDA (M) | Remarks |
|----------------|----------|----------|----------|---------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 12 | 4500 | 4500 | 4500 | 4500 | NIL |
| 30 | 4500 | 4500 | 4500 | 4500 | NIL |
| 12 | 4452 | 4452 | 4452 | | Take-off from V2 |
| 12 | 4352 | 4352 | 4352 | | Take-off from V3 |
| 12 | 4252 | 4252 | 4252 | | Take-off from V4 |
| 12 | 3030 | 3030 | 3030 | | Take-off from V6 |
| 12 | 3030 | 3030 | 3030 | | Take-off from U4 |
| 12 | 2122 | 2122 | 2122 | | Take-off from V10* |
| 30 | 4390 | 4390 | 4390 | | Take-off from V20 |
| 30 | 4288 | 4288 | 4288 | | Take-off from V19 |
| 30 | 4188 | 4188 | 4188 | | Take-off from V18 |
| 30 | 4088 | 4088 | 4088 | | Take-off from V17 |
| 30 | 3995 | 3995 | 3995 | | Take-off from V16 |
| 30 | 2980 | 2980 | 2980 | | Take-off from V13 |
| 30 | 1622 | 1622 | 1622 | | Take-off from V7* |
| 13 | 1838 | 1838 | 1838 | 1688 | EFTA |
| 31 | 1838 | 1838 | 1838 | 1688 | EFTA |
| 13 | 1804 | 1804 | 1804 | | Take-off from A2 EFTA |
| 31 | 1804 | 1804 | 1804 | | Take-off from A6 EFTA |

* No TORA sign. For EFTA base aircraft and helicopter departures only.

OMDW AD 2.14 APPROACH AND RUNWAY 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 |
| 12 | ICAO CAT III LIH precision approach lighting system including distance coded CL with sequence flashing lights from 900 M to 330 M. Flashing RTIL | LIH uni - directional green with wing bars | PAPI 3°, PAPI / ILS disharmony - on slope ILS flight may show fly up PAPI indications | LIH white uni - directional 900 M long, 30 M spacing | LIH bi - directional, 15 M spacing, first 3600 M white, next 600 M alternate red / white, last 300 M red | LIH bi - directional, 60 M spacing, first 3900 M white, last 600 M yellow | 11 LIH uni - directional red lights, spaced 6 M across RWY end | NIL | Side row lights - red side row barrettes extending 270 M from THR. |
| 30 | ICAO CAT III LIH precision approach lighting system including distance coded CL with sequence flashing lights from 900 M to 330 M. Flashing RTIL | LIH uni - directional green with wing bars | PAPI 3°, PAPI / ILS disharmony - on slope ILS flight may show fly up PAPI indications | LIH white uni - directional 900 M long, 30 M spacing | LIH bi - directional, 15 M spacing, first 3600 M white, next 600 M alternate red / white, last 300 M red | LIH bi - directional, 60 M spacing, first 3900 M white, last 600 M yellow | 11 LIH uni - directional red lights, spaced 6 M across RWY end | NIL | Side row lights - red side row barrettes extending 270 M from THR. Rapid exit taxiways V17 to V20 are not lit in the direction viewed from the runway. |
| 13 | ICAO SALS, 420 M LIH. | LIH Uni - directional green | PAPI 3° LEFT only | NIL | NIL | LIH bi - directional, 60 M spacing, first 150 M red, white until 600 M from RWY end, last 600 M yellow | 6 LIH uni - directional red lights, spaced 4.4 M across RWY end | NIL | DTHR identification lights not provided. |
| 31 | ICAO SALS CAT I, 420 M LIH. | LIH Uni - directional green with wing bars | PAPI 3° LEFT only | NIL | NIL | LIH bi - directional, 60 M spacing, first 150 M red, white until 600 M from RWY end, last 600 M yellow | 6 LIH uni - directional red lights, spaced 4.4 M across RWY end | NIL | DTHR identification lights not provided. |

OMDW AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

| | | |
|-----|---|--|
| 1 | ABN/IBN location, characteristics and operational hours | NIL |
| ← 2 | LDI location and LGT Anemometer location and LGT WDI | <p>NIL</p> <p>Anemometers RWY 12/30 installed mid - point of the RWY located 220 M (N) of RWY CL, LGTD.</p> <p>AWOS (Anemometer) RWY 13 DTHR: located 71 M from the RWY CL on the left side (N) and 300 M beyond the DTHR, LGTD.</p> <p>AWOS (Anemometer) RWY 31 DTHR: located 75 M from the RWY CL on the right side (N) and 351 M beyond the DTHR, LGTD .</p> <p>WDIs: Illuminated, fabric orange cone and obstruction light.</p> <p>WDI RWY 12 THR: located 120.57 M from the RWY CL on the left side (N) and 355 M beyond the THR.</p> <p>WDI RWY 30 THR: located 120.27 M from the RWY CL on the right side (N) and 367.53 M beyond the THR abeam to TWY V18.</p> <p>WDI FATO H12/H30: located 122.09 M from TWY Z CL on (N) side and 244.36 M beyond THR H12 and 183.53 M beyond THR H30 .</p> <p>WDI RWY 13 DTHR: located 80.01 M from the RWY CL on the left side (N) and 264.92 M beyond the DTHR.</p> <p>WDI RWY 31 DTHR: located 80.25 M from the RWY CL on the left side (S) and 139.75 M beyond the DTHR.</p> |
| 3 | TWY edge and centre line lights | <p>Edge LGT: Variable intensity blue Omni directional inset lights only at intersections and turns, excluding TXL Z9 and TXL Z10.</p> <p>EFTA: blue Omni directional elevated fittings.</p> <p>CL LGT: Variable intensity green bi-directional lights are provided for all taxiways except exit taxiways; 15 M spacing on straight sections, 7.5 M spacing on curved sections; Exit taxiways provided with variable intensity alternate Green / Yellow lights from the beginning near the runway centre line to the perimeter of the ILS critical / sensitive area; The light nearest the perimeter always shows yellow.</p> <p>EFTA: taxiways are not provided with centre line or exit taxiway lighting, except TXL L1 - L6 provided with green omnidirectional inset lights.</p> |
| 4 | Secondary power supply/switch-over time | Conforms fully with the requirements of CAR Part IX, Appendix 10 and ICAO Annex 14, chapter 8 for CAT III operations and CAT I for EFTA operations. |
| 5 | Remarks | Apron: High mast floodlights EFTA aprons: Canopy lighting. |

OMDW AD 2.16 HELICOPTER LANDING AREA

| | | |
|---|---|---|
| 1 | Coordinates TLOF or THR of FATO Geoid undulation | THR H12: 245345.7N 0550900.7E THR H30: 245338.5N 0550913.7E TLOF: NIL -112 FT |
| 2 | TLOF and/or FATO elevation M/FT | TLOF: NIL FATO: THR H12: 35.8 M / 117 FT THR H30: 37.1 M / 122 FT |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | TLOF: NIL FATO: 428 M x 20 M, Concrete, PCN 90/R/A/W/T FATO marking, Heliport identification |
| 4 | True BRG of FATO | H12: 121 ° H30: 301 ° |
| 5 | Declared distance available | TODAH = 428 M RTODAH = 428 M LDAH = 428 M |
| 6 | APP and FATO lighting | No FATO lighting, use green centre line lights of TWY Z for orientation |
| 7 | Remarks | Helicopter operations at FATO H12/H30 to be used by Dubai Police Airwing and Aerogulf Services helicopters only, as directed by ATC Helicopter operations at EFTA require pre-approval from the airport authority. MEDEVAC can expect landing at TWY A. |

OMDW AD 2.17 ATS AIRSPACE

| | | |
|---|-----------------------------------|--|
| 1 | Designation and lateral limits | AL MAKTOUM CTR 1: 250143N 0550744E 245552N 0551819E Clockwise arc radius 7.3 NM with centre at 245310N 0551049E till 244551N 0551143E 245145N 0550103E Clockwise arc radius 7.3 NM with centre at 245426N 0550831E till 250143N 0550744E AL MAKTOUM CTR 2: 250241N 0550558E 250143N 0550744E Counter clockwise arc radius 7.3 NM with centre at 245426N 0550831E till 245145N 0550103E 245244N 0545917E Clockwise arc radius 7.3 NM with centre at 245524N 0550645E till 250241N 0550558E |
| 2 | Vertical limits | CTR 1: 1,500 FT AMSL / GND CTR 2: 1,500 FT AMSL / 1,000 FT AMSL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | AL MAKTOUM TOWER English |
| 5 | Transition altitude | 13,000 FT |
| 6 | Remarks | NIL |

OMDW AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign | Frequency | SATVOICE | Logon address | Hours of operation | Remarks |
|---|---------------------------|-----------------------|--|-------------------|--------------------|-------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| APP | AL MAKTOUM RADAR | Primary 124.025 MHz | Not Implemented | Not Implemented | H24 | EMERG 121.500 MHz |
| | | Secondary 126.025 MHz | | | H24 | EMERG 121.500 MHz |
| | DUBAI DEPARTURES NORTH | Primary 126.200 MHz | | | H24 | EMERG 121.500 MHz |
| | | Secondary 124.450 MHz | | | H24 | EMERG 121.500 MHz |
| | DUBAI DEPARTURES SOUTH | Primary 121.025 MHz | | | H24 | EMERG 121.500 MHz |
| | | Secondary 124.450 MHz | | | H24 | EMERG 121.500 MHz |
| DUBAI SOUTH RADAR | Primary 120.400 MHz | H24 | EMERG 121.500 MHz FREQ MNT by AL MAKTOUM RADAR BTN 1800-0200 | | | |
| | Secondary 126.025 MHz | H24 | EMERG 121.500 MHz | | | |
| MINHAD APPROACH | Primary 122.500 MHz | H24 | EMERG 121.500 MHz | | | |
| | Secondary 126.025 MHz | H24 | EMERG 121.500 MHz | | | |
| TWR | AL MAKTOUM TOWER | Primary 118.625 MHz | H24 | EMERG 121.500 MHz | | |
| | | Secondary 118.725 MHz | H24 | EMERG 121.500 MHz | | |
| GND | AL MAKTOUM GROUND | Primary 118.375 MHz | H24 | EMERG 121.500 MHz | | |
| | | Secondary 118.725 MHz | H24 | EMERG 121.500 MHz | | |
| ATIS | AL MAKTOUM INTERNATIONAL | DEP 126.475 MHz | H24 | NIL | | |
| | | ARR 123.175 MHz | H24 | NIL | | |
| EFTA TWR | ACADEMY TOWER | Primary 118.775 MHz | See Note | EMERG 121.500 MHz | | |
| | | Secondary 119.000 MHz | See Note | EMERG 121.500 MHz | | |
| EFTA APRON | ACADEMY APRON INFORMATION | 118.700 MHz | See Note | EMERG 121.500 MHz | | |
| <p><i>Note :</i> 01 JAN – 31 MAY 0400 – 2000 UTC 01 JUN – 30 SEP 0200 - 1000 UTC and 1200 – 2000 UTC 01 OCT – 31 DEC 0300 – 1900 UTC</p> | | | | | | |

OMDW AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| | Type of aid, MAG VAR, Type of supported OPS (For VOR/ILS/MLS, give declination) | ID | Frequency | Hours of operation | Position of transmitting antenna coordinates | Elevation of DME transmitting antenna | Service volume radius from the GBAS reference point | Remarks |
|---|---|------|-------------|--------------------|--|---------------------------------------|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ← | LOC RWY 12 (2° E/2020) ILS CAT III | IJEA | 111.750 MHz | H24 | 245304.9N 0551057.6E | | | MAINT on runway closure |
| ← | GP RWY 12 | | 333.350 MHz | H24 | 245424.1N 0550842.8E | | | Angle 3°, RDH 50 FT, MAINT on runway closure |
| ← | DME RWY 12 | IJEA | CH 54Y | H24 | 245424.1N 0550842.8E | 134 FT | | Co - located with GP; Zero indication at TDZ |
| ← | LOC RWY 30 (2° E/2020) ILS CAT III | IJWA | 109.750 MHz | H24 | 245430.8N 0550822.4E | | | MAINT on runway closure |
| ← | GP RWY 30 | | 333.050 MHz | H24 | 245319.0N 0551040.5E | | | Angle 3°, RDH 50 FT, MAINT on runway closure |
| ← | DME RWY 30 | IJWA | CH 34Y | H24 | 245319.0N 0551040.5E | 184 FT | | Co - located with GP; Zero indication at TDZ |
| | LOC RWY 31 (2° E/2020) ILS CAT I | IDEF | 110.550 MHz | H24 | 245217.5N 0550903.3E | | | Exclusive use for EFTA aircraft. |
| | GP RWY 31 | | 329.450 MHz | H24 | 245154.3N 0550953.5E | | | Angle 3°, RDH 53 FT Exclusive use for EFTA aircraft. |
| | DME RWY 31 | IDEF | CH 42Y | H24 | 245154.4N 0550953.5E | 179 FT | | Exclusive use for EFTA aircraft. |

OMDW AD 2.20 LOCAL TRAFFIC REGULATIONS

2.20.1 Local VFR Regulations

2.20.1.1 Maximum speed on published VFR routes is 125 KIAS.

2.20.1.2 When the reported MET Visibility falls below 5000 M and / or the cloud ceiling is below 1500 FT, flight according to VFR is not permitted. Special VFR clearance may be issued.

2.20.1.3 Due to limited availability of Visual Reference Points (VRP) Special VFR clearances to enter the AL MAKTOUM CTR (I) may be withheld for separation purposes.

2.20.1.4 Clearance for VFR flight within the AL MAKTOUM CTR (I) will be limited to the following:

- Flights inbound to or outbound from OMDW/EFTA
- Flights inbound to or outbound from a landing site within the AL MAKTOUM CTR (I)
- Flights with an operational requirement to operate within the AL MAKTOUM CTR (I) e.g. Police patrol, aerial survey etc.
- Training flights carrying out practice instrument procedures or visual circuits at OMDW/EFTA

2.20.1.5 VFR flights not included in the above criteria must plan a route that remains clear of the AL MAKTOUM CTR (I). In addition, pilots of such flights are requested not to establish communications with AL MAKTOUM TOWER or ACADEMY TOWER unless an emergency situation requires otherwise.

2.20.2. Visual and instrument training at DUBAI / AL MAKTOUM INTERNATIONAL is subject to prior ATC approval as follows:

- MON - SUN: Training requests shall be submitted to the DAMC one day prior to the intended day of the activity (DAY-1) not later than 0700.
- DAMC contact details:

Email: damc@dans.gov.ae

Tel: +971 4 877 1232

Tel: +971 50 648 7537 (Mobile)

Fax: +971 4 887 9866

2.20.2.1 Visual and instrument training at EFTA subject to approval by EFTA operations.

2.20.3 Minimum Runway Occupancy:

a. Arrivals

- * Rapid exit from the runway enables the achievement of maximum runway utilisation. On exiting the RWY pilots are reminded not to stop until the entire aircraft has passed the runway holding point.
- * Pilots should anticipate joining TWY V in the same direction as arrival unless otherwise instructed.
- * Pilots are reminded to pay particular attention to ATC taxiing instruction when vacating to avoid deviations from clearance resulting in taxiway incursions.

b. Departures

- * eWTS time based wake turbulence separation may be applied (refer to [OMDW AD 2.22.12.2](#)) subject to other departure restrictions e.g. flow control releases.
- * Pilots are reminded to pay particular attention to conditional line up clearances to avoid RWY incursions.
- * Aircraft are assumed to be ready for departure on reaching the holding point unless otherwise stated.
- * If pilots require more separation than the eWTS time-based standard, or extra time for any other reason, they must advise ATC early PRIOR to entering the runway, NOT when on the runway. When informed, ATC may be able to make changes in the departure sequence, if necessary, to minimise delays to other succeeding departures.
- * Cockpit checks shall be completed prior to completing the line up so that take-off roll can be commenced without delay.
- * Once ATC issues a take-off clearance, if there is any unreasonable delay in the aircraft commencing the take-off roll, ATC may cancel the take-off clearance and reposition the aircraft in the departure sequence. When cleared for take-off, ATC will expect and will have planned on seeing movement within 8 to 10 seconds of the take-off clearance being issued.

Note: Aircraft that cannot comply with these requirements are to notify ATC as soon as possible.

2.20.4. When on approach to RWY 30 and RWY 12, pilots shall reconfirm DME/GP information and ensure that they have correctly identified the landing runway. Do not confuse with EFTA RWY 13 and RWY 31 in close proximity approximately 1.6 NM South of OMDW.

2.20.4.1 When on an ILS approach to RWY 31, pilots shall reconfirm DME/GP information and ensure that they have correctly identified the landing runway. Do not confuse with OMDW RWY 30 in close proximity, approximately 1.6 NM North of EFTA.

2.20.4.2 When on a GNSS approach to EFTA RWY 31 and RWY 13, pilots shall ensure that they have correctly identified the landing runway. Do not confuse with OMDW RWY 30 and RWY 12 in close proximity, approximately 1.6 NM North of EFTA.

2.20.5 Pilots to exercise caution as High intensity VFR traffic to the South East of the AL MAKTOUM CTR transiting between OMR 53 and EFTA.

2.20.6 Before entering AL MAKTOUM CTR-Class D airspace, the pilot in command of a VFR or SVFR aircraft shall establish two-way radio communication as follows:

- a. Traffic approaching AL MAKTOUM CTR from the South between during the EFTA operations timings (Refer to [OMDW AD 2.3](#)) shall establish contact with the ACADEMY TOWER on 118.775 MHz and shall maintain contact while in Class D airspace unless otherwise advised. Outside of these hours contact shall be established with AL MAKTOUM TOWER on 118.625 MHz.
- b. Traffic approaching AL MAKTOUM CTR from the North shall establish contact with AL MAKTOUM TOWER on 118.625 MHz H24 and shall maintain contact while in Class D airspace unless otherwise advised.

Note: Radio contact must be initiated far enough from the Class D airspace boundary to preclude entering the Class D airspace before two-way radio communication is established. If the controller responds with instructions to enter the CTR then radio communications have been established and the pilot may enter the Class D airspace.

OMDW AD 2.22 FLIGHT PROCEDURES

2.22.1 RNAV 1 performance required for IFR flights

Note: Aircraft flying IFR shall be certified for RNAV 1 with GNSS operations.

2.22.2 Initial Ground Contact - IFR

2.22.2.1 Prior to requesting a pushback clearance from OMDW ATC, flight crews are instructed to contact the GMC frequency on 118.375 MHz. Departing aircraft shall establish contact no more than 10 minutes prior to startup and obtain an ATC clearance. The following information will be required:

- a. Aircraft callsign
- b. Aircraft type
- c. Parking stand
- d. Destination
- e. DUBAI CTA exit point
- f. ATIS letter & QNH

2.22.2.2 EFTA Operations: - prior to requesting a start or taxi clearance from EFTA ATC, flight crews are instructed to contact EFTA ATC on frequency on 118.775 MHz. Departing aircraft shall establish contact no more than 10 minutes prior to startup and obtain an ATC clearance. The following information will be required:

- a. Aircraft callsign
- b. Aircraft type
- c. Parking stand
- d. Destination
- e. DUBAI CTA exit point
- f. QNH

2.22.3 Initial contact instructions-Airborne

2.22.3.1 On initial call, departing IFR aircraft shall pass the following information to DUBAI DEPARTURES:

- a. Aircraft callsign
- b. Passing level

2.22.3.2 On initial call, arriving IFR aircraft shall pass the following information to DUBAI ARRIVALS:

- a. Aircraft callsign
- b. Passing level
- c. Aircraft Type, including series

Note: Inbound traffic shall advise DUBAI ARRIVALS on first contact if full runway length is required.

2.22.4 RNP Approaches to RWY 12/30 and EFTA RWY 13/31

2.22.4.1 These procedures may only be flown using significant position co - ordinates that are stored in the aircraft's navigational data base.

2.22.4.2 Significant points are published in [ENR 4.4](#)

2.22.5 Standard Instrument Departures (SID)

2.22.5.1 ATC clearances issued to IFR traffic departing from OMDW will normally include Standard Instrument Departure.

2.22.5.2 Initial climb is restricted to 3000 FT for departures from RWY 12 / 30. Further climb clearance as instructed by AL MAKTOUM RADAR.

Note: See [ENR 1.6.1.3](#) for action in the event of radio failure.

2.22.5.3 Departing IFR traffic leaving DUBAI CTA while on SID or under radar control are required to:

- a. Climb at a minimum gradient of 5.0% to 8,000 FT (300 FT per NM)
- b. Observe a maximum 250 KIAS whilst below 10000 FT
- c. Carry out all turns with a 25° angle of bank.
- d. Advise ATC at start-up if unable to comply with the above, and with any part of the SID requirements and restrictions.

Note: Special speed restrictions apply on some SID and STAR.

2.22.5.4 Special navigation performance requirements:

Aircraft flying SIDs shall be certified for RNAV 1 with GNSS operations.

2.22.6 SID FMS coding tables2.22.6.1 Significant point co-ordinates are published in [ENR 4.4](#)

2.22.6.2 SID RWY 12

i) ANVIX 6J (RNAV 1 SID RWY 12)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY12 | CA | | 119 (121.3) | | +570 | | |
| DW452 | DF | No | | | +2000 | | |
| DW456 | TF | No | 119 (121.4) | | +5000 | 8.4 | -220 |
| DW479 | TF | No | 069 (071.2) | | +6000 | 3.4 | |
| DW458 | TF | No | 069 (071.2) | | | 9.5 | |
| LOPUV | TF | No | 080 (082.2) | | | 10.9 | |
| ANVIX | TF | No | 125 (126.6) | | +10000 | 6.0 | |

ii) DAVMO 5J (RNAV 1 SID RWY 12)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY12 | CA | | 119 (121.3) | | +570 | | |
| DW452 | DF | No | | | +2000 | | |
| DW456 | TF | No | 119 (121.4) | | +5000 | 8.4 | -220 |
| DW459 | TF | No | 029 (031.2) | Left | +6000 | 4.9 | |
| DW460 | TF | No | 300 (302.2) | Left | +7000 | 5.4 | -220 |
| DW473 | TF | No | 299 (301.3) | | | 3.0 | |
| DW406 | TF | No | 299 (301.3) | | | 7.5 | |
| DW478 | TF | No | 271 (272.9) | | | 4.4 | |
| KIRUK | TF | No | 271 (272.8) | | +7000 | 6.1 | |
| XARTA | TF | No | 299 (301.2) | | +8000 | 6.9 | |
| GINLA | TF | No | 358 (360.0) | | +10000 | 6.9 | |
| DW467 | TF | No | 047 (049.2) | | +12000 | 9.2 | |
| MITIX | TF | No | 047 (049.2) | | +13000 | 5.0 | |
| LOVEM | TF | No | 034 (036.0) | | +FL 150 | 11.1 | |
| OBROG | TF | No | 038 (040.2) | | | 17.4 | |
| DAVMO | TF | No | 041 (043.6) | | | 15.6 | |

iii) EMERU 3J (RNAV 1 SID RWY 12)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY12 | CA | | 119 (121.3) | | +570 | | |
| DW452 | DF | No | | | +2000 | | |
| DW456 | TF | No | 119 (121.4) | | +5000 | 8.4 | -220 |
| DW459 | TF | No | 029 (031.2) | Left | +6000 | 4.9 | |
| DW460 | TF | No | 300 (302.2) | Left | +7000 | 5.4 | -220 |
| DW473 | TF | No | 299 (301.3) | | | 3.0 | |
| DW406 | TF | No | 299 (301.3) | | | 7.5 | |
| DW478 | TF | No | 271 (272.9) | | | 4.4 | |
| EMERU | TF | No | 208 (209.9) | | | 10.6 | |

iv) KUTLI 4J (RNAV 1 SID RWY 12)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY12 | CA | | 119 (121.3) | | +570 | | |
| DW452 | DF | No | | | +2000 | | |
| DW456 | TF | No | 119 (121.4) | | +5000 | 8.4 | -220 |
| DW459 | TF | No | 029 (031.2) | Left | +6000 | 4.9 | |
| DW460 | TF | No | 300 (302.2) | Left | +7000 | 5.4 | -220 |
| DW473 | TF | No | 299 (301.3) | | | 3.0 | |
| DW406 | TF | No | 299 (301.3) | | | 7.5 | |
| DW478 | TF | No | 271 (272.9) | | | 4.4 | |
| KIRUK | TF | No | 271 (272.8) | | +7000 | 6.1 | |
| KUTLI | TF | No | 219 (220.8) | | +8000 | 8.1 | |

v) MIROT 4J (RNAV 1 SID RWY 12)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY12 | CA | | 119 (121.3) | | +570 | | |
| DW452 | DF | No | | | +2000 | | |
| DW456 | TF | No | 119 (121.4) | | +5000 | 8.4 | -220 |
| DW459 | TF | No | 029 (031.2) | Left | +6000 | 4.9 | |
| DW460 | TF | No | 300 (302.2) | Left | +7000 | 5.4 | -220 |
| DW473 | TF | No | 299 (301.3) | | | 3.0 | |
| DW406 | TF | No | 299 (301.3) | | | 7.5 | |
| DW478 | TF | No | 271 (272.9) | | | 4.4 | |
| KIRUK | TF | No | 271 (272.8) | | +7000 | 6.1 | |
| XARTA | TF | No | 299 (301.2) | | +8000 | 6.9 | |
| DW412 | TF | No | 299 (301.0) | | | 5.0 | |
| ORGUR | TF | No | 299 (301.3) | | | 4.0 | |
| MIROT | TF | No | 268 (269.7) | | | 14.8 | |

vi) NABIX 4J (RNAV 1 SID RWY 12)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY12 | CA | | 119 (121.3) | | +570 | | |
| DW452 | DF | No | | | +2000 | | |
| DW456 | TF | No | 119 (121.4) | | +5000 | 8.4 | -220 |
| DW459 | TF | No | 029 (031.2) | Left | +6000 | 4.9 | |
| DW460 | TF | No | 300 (302.2) | Left | +7000 | 5.4 | -220 |
| DW473 | TF | No | 299 (301.3) | | | 3.0 | |
| DW406 | TF | No | 299 (301.3) | | | 7.5 | |
| DW478 | TF | No | 271 (272.9) | | | 4.4 | |
| KIRUK | TF | No | 271 (272.8) | | +7000 | 6.1 | |
| XARTA | TF | No | 299 (301.2) | | +8000 | 6.9 | |
| DW412 | TF | No | 299 (301.0) | | | 5.0 | |
| ORGUR | TF | No | 299 (301.3) | | | 4.0 | |
| NABIX | TF | No | 293 (294.8) | | | 15.4 | |

vii) NOLSU 3J (RNAV 1 SID RWY 12)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY12 | CA | | 119 (121.3) | | +570 | | |
| DW452 | DF | No | | | +2000 | | |
| DW456 | TF | No | 119 (121.4) | | +5000 | 8.4 | -220 |
| DW459 | TF | No | 029 (031.2) | Left | +6000 | 4.9 | |
| DW460 | TF | No | 300 (302.2) | Left | +7000 | 5.4 | -220 |
| IMGIL | TF | No | 006 (007.6) | | +9000 | 6.3 | |
| ULADO | TF | No | 068 (069.6) | | +11000 | 8.5 | |
| DW474 | TF | No | 068 (069.6) | | | 7.7 | |
| DW475 | TF | No | 068 (069.7) | | +12000 | 7.1 | |
| NOLSU | TF | No | 068 (069.8) | | +FL 150 | 18.5 | |

viii) RIDAP 4J (RNAV 1 SID RWY 12)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY12 | CA | | 119 (121.3) | | +570 | | |
| DW452 | DF | No | | | +2000 | | |
| DW456 | TF | No | 119 (121.4) | | +5000 | 8.4 | -220 |
| DW459 | TF | No | 029 (031.2) | Left | +6000 | 4.9 | |
| DW460 | TF | No | 300 (302.2) | Left | +7000 | 5.4 | -220 |
| DW473 | TF | No | 299 (301.3) | | | 3.0 | |
| DW406 | TF | No | 299 (301.3) | | | 7.5 | |
| DW478 | TF | No | 271 (272.9) | | | 4.4 | |
| KIRUK | TF | No | 271 (272.8) | | +7000 | 6.1 | |
| XARTA | TF | No | 299 (301.2) | | +8000 | 6.9 | |
| DW412 | TF | No | 299 (301.0) | | | 5.0 | |
| ORGUR | TF | No | 299 (301.3) | | | 4.0 | |
| LOPAP | TF | No | 346 (348.5) | | | 5.8 | |
| IVILI | TF | No | 346 (348.5) | | | 5.0 | |
| KIXOG | TF | No | 346 (348.4) | | | 7.5 | |
| RIDAP | TF | No | 285 (287.4) | | | 5.8 | |

ix) SENPA 4J (RNAV 1 SID RWY 12)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY12 | CA | | 119 (121.3) | | +570 | | |
| DW452 | DF | No | | | +2000 | | |
| DW456 | TF | No | 119 (121.4) | | +5000 | 8.4 | -220 |
| DW459 | TF | No | 029 (031.2) | Left | +6000 | 4.9 | |
| DW460 | TF | No | 300 (302.2) | Left | +7000 | 5.4 | -220 |
| DW473 | TF | No | 299 (301.3) | | | 3.0 | |
| DW406 | TF | No | 299 (301.3) | | | 7.5 | |
| DW478 | TF | No | 271 (272.9) | | | 4.4 | |
| KIRUK | TF | No | 271 (272.8) | | +7000 | 6.1 | |
| XARTA | TF | No | 299 (301.2) | | +8000 | 6.9 | |
| DW412 | TF | No | 299 (301.0) | | | 5.0 | |
| ORGUR | TF | No | 299 (301.3) | | | 4.0 | |
| LOPAP | TF | No | 346 (348.5) | | | 5.8 | |
| IVILI | TF | No | 346 (348.5) | | | 5.0 | |
| SENPA | TF | No | 283 (285.5) | | | 11.9 | |

2.22.6.3 SID RWY 30

i) ANVIX 4L (RNAV 1 SID RWY 30)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY30 | CA | | 299 (301.2) | | +520 | | |
| KIRUK | DF | No | | | +2000 | | |
| DW552 | TF | No | 209 (211.2) | Left | +3000 | 5.0 | |
| DW465 | TF | No | 119 (121.2) | Left | +4000 | 4.0 | -220 |
| DW423 | TF | No | 076 (077.7) | | | 7.3 | |
| DW466 | TF | No | 066 (067.9) | | +7000 | 5.0 | |
| IMGIL | TF | No | 066 (067.9) | | +10000 | 8.4 | |
| ULADO | TF | No | 068 (069.6) | | +11000 | 8.5 | |
| RAPMO | TF | No | 119 (120.7) | | +13000 | 9.2 | |
| LOPUV | TF | No | 124 (126.0) | | | 10.1 | |
| ANVIX | TF | No | 125 (126.6) | | | 6.0 | |

ii) DAVMO 4L (RNAV 1 SID RWY 30)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY30 | CA | | 299 (301.2) | | +520 | | |
| KIRUK | DF | No | | | +2000 | | |
| XARTA | TF | No | 299 (301.2) | | | 6.9 | -220 |
| GINLA | TF | No | 358 (360.0) | | | 6.9 | |
| DW467 | TF | No | 047 (049.2) | | +10000 | 9.2 | |
| MITIX | TF | No | 047 (049.2) | | +11000 | 5.0 | |
| LOVEM | TF | No | 034 (036.0) | | +FL 150 | 11.1 | |
| OBROG | TF | No | 038 (040.2) | | | 17.4 | |
| DAVMO | TF | No | 041 (043.6) | | | 15.6 | |

iii) EMERU 1L (RNAV 1 SID RWY 30)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY30 | CA | | 299 (301.2) | | +520 | | |
| KIRUK | DF | No | | | +2000 | | |
| DW552 | TF | No | 209 (211.2) | Left | +3000 | 5.0 | |
| DW465 | TF | No | 119 (121.2) | Left | +4000 | 4.0 | -220 |
| EMERU | TF | No | 178 (179.5) | | | 3.1 | |

iv) KUTLI 3L (RNAV 1 SID RWY 30)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY30 | CA | | 299 (301.2) | | +520 | | |
| KIRUK | DF | No | | | +2000 | | |
| XARTA | TF | No | 299 (301.2) | | | 6.9 | -220 |
| TATMO | TF | No | 209 (211.2) | Left | | 5.0 | -220 |
| KUTLI | TF | No | 147 (149.1) | | +8000 | 6.3 | |

v) MIROT 3L (RNAV 1 SID RWY 30)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY30 | CA | | 299 (301.2) | | +520 | | |
| KIRUK | DF | No | | | +2000 | | |
| XARTA | TF | No | 299 (301.2) | | | 6.9 | -220 |
| ORGUR | TF | No | 299 (301.1) | | | 9.0 | |
| MIROT | TF | No | 268 (269.7) | | | 14.8 | |

vi) **NABIX 3L (RNAV 1 SID RWY 30)**

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY30 | CA | | 299 (301.2) | | +520 | | |
| KIRUK | DF | No | | | +2000 | | |
| XARTA | TF | No | 299 (301.2) | | | 6.9 | -220 |
| ORGUR | TF | No | 299 (301.1) | | | 9.0 | |
| NABIX | TF | No | 293 (294.8) | | | 15.4 | |

vii) **NOLSU 3L (RNAV 1 SID RWY 30)**

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY30 | CA | | 299 (301.2) | | +520 | | |
| KIRUK | DF | No | | | +2000 | | |
| DW552 | TF | No | 209 (211.2) | Left | +3000 | 5.0 | |
| DW465 | TF | No | 119 (121.2) | Left | +4000 | 4.0 | -220 |
| DW423 | TF | No | 076 (077.7) | | | 7.3 | |
| DW466 | TF | No | 066 (067.9) | | +7000 | 5.0 | |
| IMGIL | TF | No | 066 (067.9) | | +10000 | 8.4 | |
| ULADO | TF | No | 068 (069.6) | | +11000 | 8.5 | |
| DW474 | TF | No | 068 (069.6) | | | 7.7 | |
| DW475 | TF | No | 068 (069.7) | | +12000 | 7.1 | |
| NOLSU | TF | No | 068 (069.8) | | +FL 150 | 18.5 | |

viii) **RIDAP 3L (RNAV 1 SID RWY 30)**

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY30 | CA | | 299 (301.2) | | +520 | | |
| KIRUK | DF | No | | | +2000 | | |
| XARTA | TF | No | 299 (301.2) | | | 6.9 | -220 |
| ORGUR | TF | No | 299 (301.1) | | | 9.0 | |
| LOPAP | TF | No | 346 (348.5) | | | 5.8 | |
| IVILI | TF | No | 346 (348.5) | | | 5.0 | |
| KIXOG | TF | No | 346 (348.4) | | | 7.5 | |
| RIDAP | TF | No | 285 (287.4) | | | 5.8 | |

ix) **SENPA 3L (RNAV 1 SID RWY 30)**

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY30 | CA | | 299 (301.2) | | +520 | | |
| KIRUK | DF | No | | | +2000 | | |
| XARTA | TF | No | 299 (301.2) | | | 6.9 | -220 |
| ORGUR | TF | No | 299 (301.1) | | | 9.0 | |
| LOPAP | TF | No | 346 (348.5) | | | 5.8 | |
| IVILI | TF | No | 346 (348.5) | | | 5.0 | |
| SENPA | TF | No | 283 (285.5) | | | 11.9 | |

2.22.6.4 SID RWY 13

i) ANVIX 2N (RNAV 1 SID RWY 13)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY13 | CA | | 119 (121.2) | | +570 | | |
| EF801 | DF | Yes | | | | | |
| EF802 | TF | No | 150 (151.6) | | | 4.8 | |
| EF803 | TF | No | 119 (121.3) | | | 9.4 | |
| DW456 | TF | No | 029 (031.2) | Left | +5000 | 4.0 | -220 |
| DW479 | TF | No | 069 (071.2) | | +6000 | 3.4 | |
| DW458 | TF | No | 069 (071.2) | | | 9.5 | |
| LOPUV | TF | No | 080 (082.2) | | | 10.9 | |
| ANVIX | TF | No | 125 (126.6) | | +10000 | 6.0 | |

ii) MIROT 1N (RNAV 1 SID RWY 13)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY13 | CA | | 119 (121.2) | | +570 | | |
| EF801 | DF | Yes | | | | | |
| EF802 | TF | No | 150 (151.6) | | | 4.8 | |
| EF803 | TF | No | 119 (121.3) | | | 9.4 | |
| DW456 | TF | No | 029 (031.2) | Left | +5000 | 4.0 | -220 |
| DW459 | TF | No | 029 (031.2) | | +6000 | 4.9 | |
| DW460 | TF | No | 300 (302.2) | Left | +7000 | 5.4 | |
| DW473 | TF | No | 299 (301.3) | | | 3.0 | |
| DW406 | TF | No | 299 (301.3) | | | 7.5 | |
| DW478 | TF | No | 271 (272.9) | | | 4.4 | |
| KIRUK | TF | No | 271 (272.8) | | +7000 | 6.1 | |
| XARTA | TF | No | 299 (301.2) | | +8000 | 6.9 | |
| DW412 | TF | No | 299 (301.0) | | | 5.0 | |
| ORGUR | TF | No | 299 (301.3) | | | 4.0 | |
| MIROT | TF | No | 268 (269.7) | | | 14.8 | |

iii) NABIX 1N (RNAV 1 SID RWY 13)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| RWY13 | CA | | 119 (121.2) | | +570 | | |
| EF801 | DF | Yes | | | | | |
| EF802 | TF | No | 150 (151.6) | | | 4.8 | |
| EF803 | TF | No | 119 (121.3) | | | 9.4 | |
| DW456 | TF | No | 029 (031.2) | Left | +5000 | 4.0 | -220 |
| DW459 | TF | No | 029 (031.2) | | +6000 | 4.9 | |
| DW460 | TF | No | 300 (302.2) | Left | +7000 | 5.4 | |
| DW473 | TF | No | 299 (301.3) | | | 3.0 | |
| DW406 | TF | No | 299 (301.3) | | | 7.5 | |
| DW478 | TF | No | 271 (272.9) | | | 4.4 | |
| KIRUK | TF | No | 271 (272.8) | | +7000 | 6.1 | |
| XARTA | TF | No | 299 (301.2) | | +8000 | 6.9 | |
| DW412 | TF | No | 299 (301.0) | | | 5.0 | |
| ORGUR | TF | No | 299 (301.3) | | | 4.0 | |
| NABIX | TF | No | 293 (294.8) | | | 15.4 | |

2.22.6.5 SID RWY 31

i) ANVIX 1P (RNAV 1 SID RWY 31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit(KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|-----------------|
| RWY31 | CA | | 299 (301.2) | | +570 | | |
| EF851 | DF | Yes | | | | | |
| EF852 | TF | No | 262 (264.5) | | | 4.1 | -130 |
| EF853 | TF | No | 210 (212.2) | | | 2.0 | -130 |
| EF854 | TF | No | 119 (121.2) | Left | | 6.4 | -220 |
| EF855 | TF | No | 066 (067.7) | | +7000 | 9.8 | |
| IMGIL | TF | No | 043 (044.7) | | +10000 | 9.1 | |
| ULADO | TF | No | 068 (069.6) | | +11000 | 8.5 | |
| RAPMO | TF | No | 119 (120.7) | | +13000 | 9.2 | |
| LOPUV | TF | No | 124 (126.0) | | | 10.1 | |
| ANVIX | TF | No | 125 (126.6) | | | 6.0 | |

ii) MIROT 1P (RNAV 1 SID RWY 31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit(KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|-----------------|
| RWY31 | CA | | 299 (301.2) | | +570 | | |
| EF851 | DF | Yes | | | | | |
| EF852 | TF | No | 262 (264.5) | | | 4.1 | -130 |
| DW552 | TF | No | 280 (282.4) | | | 3.1 | |
| TATMO | TF | No | 299 (300.9) | | | 6.9 | -220 |
| EF856 | TF | No | 304 (306.2) | | | 9.0 | |
| MIROT | TF | No | 283 (285.6) | | | 13.1 | |

iii) NABIX 1P (RNAV 1 SID RWY 31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit(KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|-----------------|
| RWY31 | CA | | 299 (301.2) | | +570 | | |
| EF851 | DF | Yes | | | | | |
| EF852 | TF | No | 262 (264.5) | | | 4.1 | -130 |
| DW552 | TF | No | 280 (282.4) | | | 3.1 | |
| TATMO | TF | No | 299 (300.9) | | | 6.9 | -220 |
| EF856 | TF | No | 304 (306.2) | | | 9.0 | |
| NABIX | TF | No | 308 (310.5) | | | 15.5 | |

2.22.7 Standard Instrument Arrivals (STAR)

2.22.7.1 Aircraft flying STARs shall be certified for RNAV 1 with GNSS operations.

2.22.7.2 STAR FMS coding tables below. Significant point co-ordinates are published in [ENR 4.4](#).

Speed control points depicted in STAR coding tables and on STAR charts are mandatory unless instructed by ATC.

2.22.7.2.1 STAR RWY 12/13

i) **DATOB 5Y (RNAV 1 STAR RWY 12/13)**

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| DATOB | IF | No | | | -FL 160 | | @230 |
| DW426 | TF | No | 107 (109.6) | | | 12.7 | |
| MITIX | TF | No | 141 (143.2) | | -FL 150 | 11.0 | |
| DW427 | TF | No | 138 (140.5) | | +10000 | 16.2 | |
| DW406 | TF | No | 209 (211.3) | | -10000 | 9.1 | |
| DW423 | TF | No | 209 (211.2) | | | 5.0 | |
| DEDAX | TF | No | 209 (211.2) | Right | -8000 | 5.0 | @210 |
| ORPAT | TF | No | 299 (301.1) | | -6000 | 7.4 | |
| IVOPU | TF | No | 299 (301.2) | | | 5.7 | |
| DW400 | TF | No | 299 (301.1) | Right | | 8.0 | @185 |
| DW412 | TF | No | 029 (031.1) | Right | | 5.0 | |
| NITRI | TF | No | 119 (121.0) | | +3000 | 4.0 | |

ii) **ELOVU 3Y (RNAV 1 STAR RWY 12/13)**

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| ELOVU | IF | No | | | -12000 | | @230 |
| MISOL | TF | No | 118 (120.5) | | | 7.2 | |
| LORID | TF | No | 077 (078.7) | | -9000 | 11.1 | @210 |
| TOVLA | TF | No | 050 (052.2) | | -7000 | 4.0 | |
| DW400 | TF | No | 072 (073.6) | | | 5.3 | @185 |
| DW412 | TF | No | 029 (031.1) | Right | | 5.0 | |
| NITRI | TF | No | 119 (121.0) | | +3000 | 4.0 | |

iii) **GERUL 3Y (RNAV 1 STAR RWY 12/13)**

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| GERUL | IF | No | | | -10000 | | @210 |
| TOVLA | TF | No | 095 (096.7) | | -7000 | 14.5 | |
| DW400 | TF | No | 072 (073.6) | | | 5.3 | @185 |
| DW412 | TF | No | 029 (031.1) | Right | | 5.0 | |
| NITRI | TF | No | 119 (121.0) | | +3000 | 4.0 | |

iv) **GIDIS 5Y (RNAV 1 STAR RWY 12/13)**

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| GIDIS | IF | No | | | -12000 | | @230 |
| RERAG | TF | No | 304 (306.3) | | -10000 | 6.8 | @230 |
| SINPU | TF | No | 268 (270.0) | | | 12.9 | |
| DW416 | TF | No | 265 (266.8) | | | 10.0 | |
| DEDAX | TF | No | 299 (301.2) | | -8000 | 18.1 | @210 |
| ORPAT | TF | No | 299 (301.1) | | -6000 | 7.4 | |
| IVOPU | TF | No | 299 (301.2) | | | 5.7 | |
| DW400 | TF | No | 299 (301.1) | Right | | 8.0 | @185 |
| DW412 | TF | No | 029 (031.1) | Right | | 5.0 | |
| NITRI | TF | No | 119 (121.0) | | +3000 | 4.0 | |

v) GONVI 5Y (RNAV 1 STAR RWY 12/13)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| GONVI | IF | No | | | -FL 160 | | @230 |
| ALRAR | TF | No | 107 (109.4) | | | 5.1 | |
| LOVEM | TF | No | 139 (140.7) | | -FL 150 | 18.3 | |
| DW427 | TF | No | 168 (170.0) | | +10000 | 21.8 | |
| DW406 | TF | No | 209 (211.3) | | -10000 | 9.1 | |
| DW423 | TF | No | 209 (211.2) | | | 5.0 | |
| DEDAX | TF | No | 209 (211.2) | Right | -8000 | 5.0 | @210 |
| ORPAT | TF | No | 299 (301.1) | | -6000 | 7.4 | |
| IVOPU | TF | No | 299 (301.2) | | | 5.7 | |
| DW400 | TF | No | 299 (301.1) | Right | | 8.0 | @185 |
| DW412 | TF | No | 029 (031.1) | Right | | 5.0 | |
| NITRI | TF | No | 119 (121.0) | | +3000 | 4.0 | |

vi) LORID 3Y (RNAV 1 STAR RWY 12/13)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| LORID | IF | No | | | -9000 | | @210 |
| TOVLA | TF | No | 050 (052.2) | | -7000 | 4.0 | |
| DW400 | TF | No | 072 (073.6) | | | 5.3 | @185 |
| DW412 | TF | No | 029 (031.1) | Right | | 5.0 | |
| NITRI | TF | No | 119 (121.0) | | +3000 | 4.0 | |

vii) PUVAL 6Y (RNAV 1 STAR RWY 12/13)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| PUVAL | IF | No | | | -FL 160 | | @230 |
| DETGU | TF | No | 211 (213.1) | | -FL 150 | 11.4 | |
| SERSA | TF | No | 211 (213.1) | | | 7.9 | |
| IVOXI | TF | No | 216 (217.9) | | | 9.0 | |
| DW427 | TF | No | 216 (217.9) | | +10000 | 9.4 | |
| DW406 | TF | No | 209 (211.3) | | -10000 | 9.1 | |
| DW423 | TF | No | 209 (211.2) | | | 5.0 | |
| DEDAX | TF | No | 209 (211.2) | Right | -8000 | 5.0 | @210 |
| ORPAT | TF | No | 299 (301.1) | | -6000 | 7.4 | |
| IVOPU | TF | No | 299 (301.2) | | | 5.7 | |
| DW400 | TF | No | 299 (301.1) | Right | | 8.0 | @185 |
| DW412 | TF | No | 029 (031.1) | Right | | 5.0 | |
| NITRI | TF | No | 119 (121.0) | | +3000 | 4.0 | |

viii) UMAMI 4Y (RNAV 1 STAR RWY 12/13)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| UMAMI | IF | No | | | -12000 | | @230 |
| DW422 | TF | No | 303 (305.3) | | | 4.5 | |
| DW425 | TF | No | 234 (236.1) | | -10000 | 9.9 | |
| SINPU | TF | No | 234 (236.1) | | | 14.8 | |
| DW416 | TF | No | 265 (266.8) | | | 10.0 | |
| DEDAX | TF | No | 299 (301.2) | | -8000 | 18.1 | @210 |
| ORPAT | TF | No | 299 (301.1) | | -6000 | 7.4 | |
| IVOPU | TF | No | 299 (301.2) | | | 5.7 | |
| DW400 | TF | No | 299 (301.1) | Right | | 8.0 | @185 |
| DW412 | TF | No | 029 (031.1) | Right | | 5.0 | |
| NITRI | TF | No | 119 (121.0) | | +3000 | 4.0 | |

2.22.7.2.2 STAR RWY 30/31

i) DATOB 5Z (RNAV 1 STAR RWY 30/31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| DATOB | IF | No | | | -FL 160 | | @230 |
| DW426 | TF | No | 107 (109.6) | | | 12.7 | |
| MITIX | TF | No | 141 (143.2) | | -FL 150 | 11.0 | |
| DW427 | TF | No | 138 (140.5) | | +10000 | 16.2 | |
| DW406 | TF | No | 209 (211.3) | | -10000 | 9.1 | |
| DW423 | TF | No | 209 (211.2) | | | 5.0 | |
| DEDAX | TF | No | 209 (211.2) | Left | -8000 | 5.0 | @210 |
| SIBVA | TF | No | 119 (121.3) | | | 5.3 | |
| ODGAK | TF | No | 119 (121.3) | | | 5.3 | |
| SOBOB | TF | No | 119 (121.4) | Left | | 6.0 | @185 |
| UKSUL | TF | No | 029 (031.4) | Left | | 5.0 | @185 |
| GEXIK | TF | No | 299 (301.2) | | +3000 | 3.8 | |

ii) ELOVU 3Z (RNAV 1 STAR RWY 30/31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| ELOVU | IF | No | | | -12000 | | @230 |
| MISOL | TF | No | 118 (120.5) | | | 7.2 | |
| LORID | TF | No | 077 (078.7) | | -11000 | 11.1 | @230 |
| TOVLA | TF | No | 050 (052.2) | | -10000 | 4.0 | |
| TATMO | TF | No | 095 (096.8) | | | 9.3 | |
| ORPAT | TF | No | 119 (121.1) | | | 8.7 | |
| DEDAX | TF | No | 119 (121.2) | | -8000 | 7.4 | @210 |
| SIBVA | TF | No | 119 (121.3) | | | 5.3 | |
| ODGAK | TF | No | 119 (121.3) | | | 5.3 | |
| SOBOB | TF | No | 119 (121.4) | Left | | 6.0 | @185 |
| UKSUL | TF | No | 029 (031.4) | Left | | 5.0 | @185 |
| GEXIK | TF | No | 299 (301.2) | | +3000 | 3.8 | |

iii) GERUL 3Z (RNAV 1 STAR RWY 30/31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| GERUL | IF | No | | | -11000 | | @230 |
| TOVLA | TF | No | 095 (096.7) | | -10000 | 14.5 | |
| TATMO | TF | No | 095 (096.8) | | | 9.3 | |
| ORPAT | TF | No | 119 (121.1) | | | 8.7 | |
| DEDAX | TF | No | 119 (121.2) | | -8000 | 7.4 | @210 |
| SIBVA | TF | No | 119 (121.3) | | | 5.3 | |
| ODGAK | TF | No | 119 (121.3) | | | 5.3 | |
| SOBOB | TF | No | 119 (121.4) | Left | | 6.0 | @185 |
| UKSUL | TF | No | 029 (031.4) | Left | | 5.0 | @185 |
| GEXIK | TF | No | 299 (301.2) | | +3000 | 3.8 | |

iv) GIDIS 5Z (RNAV 1 STAR RWY 30/31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(^T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| GIDIS | IF | No | | | -11000 | | @230 |
| RERAG | TF | No | 304 (306.3) | | -10000 | 6.8 | @230 |
| SINPU | TF | No | 268 (270.0) | | -7000 | 12.9 | @210 |
| UKSUL | TF | No | 296 (297.6) | | | 9.8 | @185 |
| GEXIK | TF | No | 299 (301.2) | | +3000 | 3.8 | |

v) GONVI 5Z (RNAV 1 STAR RWY 30/31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| GONVI | IF | No | | | -FL 160 | | @230 |
| ALRAR | TF | No | 107 (109.4) | | | 5.1 | |
| LOVEM | TF | No | 139 (140.7) | | -FL 150 | 18.3 | |
| DW427 | TF | No | 168 (170.0) | | +10000 | 21.8 | |
| DW406 | TF | No | 209 (211.3) | | -10000 | 9.1 | |
| DW423 | TF | No | 209 (211.2) | | | 5.0 | |
| DEDAX | TF | No | 209 (211.2) | Left | -8000 | 5.0 | @210 |
| SIBVA | TF | No | 119 (121.3) | | | 5.3 | |
| ODGAK | TF | No | 119 (121.3) | | | 5.3 | |
| SOBOB | TF | No | 119 (121.4) | Left | | 6.0 | @185 |
| UKSUL | TF | No | 029 (031.4) | Left | | 5.0 | @185 |
| GEXIK | TF | No | 299 (301.2) | | +3000 | 3.8 | |

vi) LORID 3Z (RNAV 1 STAR RWY 30/31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| LORID | IF | No | | | -11000 | | @230 |
| TOVLA | TF | No | 050 (052.2) | | -10000 | 4.0 | |
| TATMO | TF | No | 095 (096.8) | | | 9.3 | |
| ORPAT | TF | No | 119 (121.1) | | | 8.7 | |
| DEDAX | TF | No | 119 (121.2) | | -8000 | 7.4 | @210 |
| SIBVA | TF | No | 119 (121.3) | | | 5.3 | |
| ODGAK | TF | No | 119 (121.3) | | | 5.3 | |
| SOBOB | TF | No | 119 (121.4) | Left | | 6.0 | @185 |
| UKSUL | TF | No | 029 (031.4) | Left | | 5.0 | @185 |
| GEXIK | TF | No | 299 (301.2) | | +3000 | 3.8 | |

vii) PUVAL 6Z (RNAV 1 STAR RWY 30/31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| PUVAL | IF | No | | | -FL 160 | | @230 |
| DETGU | TF | No | 211 (213.1) | | -FL 150 | 11.4 | |
| SERSA | TF | No | 211 (213.1) | | | 7.9 | |
| IVOXI | TF | No | 216 (217.9) | | | 9.0 | |
| DW427 | TF | No | 216 (217.9) | | +10000 | 9.4 | |
| DW406 | TF | No | 209 (211.3) | | -10000 | 9.1 | |
| DW423 | TF | No | 209 (211.2) | | | 5.0 | |
| DEDAX | TF | No | 209 (211.2) | Left | -8000 | 5.0 | @210 |
| SIBVA | TF | No | 119 (121.3) | | | 5.3 | |
| ODGAK | TF | No | 119 (121.3) | | | 5.3 | |
| SOBOB | TF | No | 119 (121.4) | Left | | 6.0 | @185 |
| UKSUL | TF | No | 029 (031.4) | Left | | 5.0 | @185 |
| GEXIK | TF | No | 299 (301.2) | | +3000 | 3.8 | |

viii) UMAMI 4Z (RNAV 1 STAR RWY 30/31)

| Waypoint ID | P/T | Fly-Over | Course / Track °M(°T) | Turn Direction | Altitude (FT) | Distance (NM) | Speed Limit (KT) |
|-------------|-----|----------|-----------------------|----------------|---------------|---------------|------------------|
| UMAMI | IF | No | | | -12000 | | @230 |
| DW422 | TF | No | 303 (305.3) | | | 4.5 | |
| DW425 | TF | No | 234 (236.1) | | -10000 | 9.9 | |
| SINPU | TF | No | 234 (236.1) | | -7000 | 14.8 | @210 |
| UKSUL | TF | No | 296 (297.6) | | | 9.8 | @185 |
| GEXIK | TF | No | 299 (301.2) | | +3000 | 3.8 | |

2.22.8 VFR routes

2.22.8.1 For VFR routes defined within DUBAI CTA including detailed information regarding the VFR reporting points established on those VFR routes, see charts ENR 6-4.1 and ENR 6-4.2.

2.22.8.2 The following procedures apply to VFR aircraft experiencing transmitter, or complete radio failure, intending to land at OMDW (See: [AD 2.22.11](#) for EFTA RCF Procedures):

VFR traffic operating to the North of OMDW:

1. Squawk 7600;
2. Proceed to the Bird Cage (BC) VFRP and hold for 5 minutes, if able;
3. Ascertain the runway in use by ATIS or observing other aircraft;
4. Join the northern visual circuit in the downwind position, proceed to final and land;
5. After landing, vacate the runway at the earliest opportunity, hold on the taxiway and await a Follow-Me vehicle.

VFR traffic operating to the South of OMDW:

1. Squawk 7600;
2. Proceed to Industrial City Offices (IC) VFRP and hold for 5 minutes, if able;
3. Ascertain the runway in use by ATIS or observing other aircraft;
4. Join the southern visual circuit in the downwind position, proceed to final and land;
5. After landing, vacate the runway at the earliest opportunity, hold on the taxiway and await a Follow-Me vehicle.

2.22.9 Approach Procedures

2.22.9.1 These procedures may only be flown using significant position co-ordinates that are stored in the aircrafts navigational data base. Significant point co-ordinates are published in [ENR 4.4](#)

2.22.9.2 RNP Approach Procedure Coding**2.22.9.2.1 RNP RWY 12 (LNAV/Baro-VNAV) VPA 2.8°**

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| NITRI | IF | N | | | | +3000 | -185 |
| PUSVO | TF | N | 4.00 | 121.20 | | +3000 | |
| DW660 | TF | N | 4.50 | 121.24 | | @2000 | |
| RWY12 | TF | Y | 6.18 | 121.23 | | | |
| REVUL | DF | Y | | | | @3000 | -210 |
| REVUL | HM | Y | 1 MIN | 301.33 | Left | @3000 | -210 |

2.22.9.2.2 RNP RWY 30 (LNAV/Baro-VNAV) VPA 2.8°

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| GEXIK | IF | N | | | | +3000 | -185 |
| REVUL | TF | N | 2.19 | 301.33 | | +3000 | |
| DW760 | TF | N | 4.52 | 301.28 | | @2000 | |
| RWY30 | TF | Y | 5.99 | 301.25 | | | |
| LADMO | DF | Y | | | | @3000 | -210 |
| LADMO | HM | Y | 1 MIN | 121.25 | Left | @3000 | -230 |

2.22.9.2.3 RNP RWY 13 (LNAV/Baro-VNAV) VPA 2.8°

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| ORPAT | IF | N | | | | | |
| IVOPU | TF | N | 5.68 | 301.15 | | | |
| EF670 | TF | N | 4.00 | 301.13 | Right | @2000 | |
| EF671 | TF | N | 3.43 | 031.17 | Right | @2000 | |
| EF672 | TF | N | 4.00 | 121.19 | | @2000 | |

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| TOVLA | IF | N | | | | | |
| DW400 | TF | N | 5.25 | 073.58 | | @2000 | |
| EF671 | TF | N | 5.27 | 080.47 | | @2000 | |
| EF672 | TF | N | 4.00 | 121.19 | | @2000 | |

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| EF672 | IF | N | | | | @2000 | |
| EF667 | TF | N | 6.34 | 121.23 | | @2000 | |
| RWY13 | TF | Y | 6.03 | 121.24 | | | |
| EF673 | DF | N | | | | | |
| SEVNU | TF | Y | 4.54 | 170.12 | | @2000 | -130 |
| SEVNU | HM | Y | 1 MIN | 301.00 | Left | @2000 | -150 |

2.22.9.2.4 RNP RWY 31 (LNAV/Baro-VNAV) VPA 2.8°

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| SIBVA | IF | Y | | | | +2000 | |
| ODGAK | TF | N | 5.26 | 121.32 | | +2000 | |
| EF870 | TF | N | 3.61 | 121.37 | Left | @2000 | |
| PEBER | TF | N | 3.44 | 031.34 | Left | @2000 | |
| EF871 | TF | N | 3.61 | 301.27 | | @2000 | |

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| KUKPO | IF | Y | | | | +3000 | |
| EF870 | TF | N | 7.38 | 002.73 | | @2000 | |
| PEBER | TF | N | 3.44 | 031.34 | Left | @2000 | |
| EF871 | TF | N | 3.61 | 301.27 | | @2000 | |

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| SINPU | IF | N | | | | -7000 | |
| EF869 | TF | N | 6.55 | 281.63 | | | |
| PEBER | TF | N | 5.97 | 301.29 | | @2000 | |
| EF871 | TF | N | 3.61 | 301.27 | | @2000 | |

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|----------------|------------------|
| EF871 | IF | N | | | | @2000 | |
| EF866 | TF | N | 4.39 | 301.24 | | @2000 | |
| RWY31 | TF | Y | 6.03 | 301.24 | | | |
| EF868 | DF | N | | | Left | | |
| EF872 | TF | N | 2.98 | 211.21 | | | |
| SIBVA | TF | Y | 8.25 | 124.40 | | @2000 | -130 |
| SIBVA | HM | Y | 1 MIN | 121.32 | Right | @2000 | -150 |
| KUKPO | HM | Y | 1 MIN | 090.95 | Right | -4000 +3000 | -150 |

2.22.9.3 ILS Approach Procedure Coding

2.22.9.3.1 RWY 12 ILS

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| NITRI | IF | N | | | | +3000 | -185 |
| PUSVO | TF | N | 4.00 | 121.20 | | +3000 | |
| DW661 | CF | N | 5.00 | 121.19 | | @2000 | |
| RWY12 | CF | Y | 5.68 | 121.23 | | | |
| REVUL | DF | Y | | | | @3000 | -210 |
| REVUL | HM | Y | 1 MIN | 301.33 | Left | @3000 | -210 |

2.22.9.3.2 RWY 30 ILS

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| GEXIK | IF | N | | | | +3000 | -185 |
| REVUL | TF | N | 2.19 | 301.33 | | +3000 | |
| DW761 | CF | N | 5.00 | 301.29 | | @2000 | |
| RWY30 | CF | Y | 5.51 | 301.25 | | | |
| LADMO | DF | Y | | | | @3000 | -210 |
| LADMO | HM | Y | 1 MIN | 121.25 | Left | @3000 | -230 |

2.22.9.3.3 RWY 31 ILS

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| SIBVA | IF | Y | | | | +2000 | |
| ODGAK | TF | N | 5.26 | 121.32 | | +2000 | |
| EF870 | TF | N | 3.61 | 121.37 | Left | @2000 | |
| PEBER | TF | N | 3.44 | 031.34 | Left | @2000 | |
| EF871 | TF | N | 3.61 | 301.27 | | @2000 | |

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| KUKPO | IF | Y | | | | +3000 | |
| EF870 | TF | N | 7.38 | 002.73 | | @2000 | |
| PEBER | TF | N | 3.44 | 031.34 | Left | @2000 | |
| EF871 | TF | N | 3.61 | 301.27 | | @2000 | |

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|---------------|------------------|
| SINPU | IF | N | | | | -7000 | |
| EF869 | TF | N | 6.55 | 281.63 | | | |
| PEBER | TF | N | 5.97 | 301.29 | | @2000 | |
| EF871 | TF | N | 3.61 | 301.27 | | @2000 | |

| Waypoint ID | P/T | Fly-Over | Distance (NM) | Course (°T) | Turn Direction | Altitude (FT) | Speed Limit (KT) |
|-------------|-----|----------|---------------|-------------|----------------|----------------|------------------|
| EF871 | IF | N | | | | @2000 | |
| EF813 | CF | N | 4.79 | 301.27 | | @2000 | |
| RWY31 | CF | Y | 5.63 | 301.24 | | | |
| EF868 | DF | N | | | Left | | |
| EF872 | TF | N | 2.98 | 211.21 | | | |
| SIBVA | TF | Y | 8.25 | 124.40 | | @2000 | -130 |
| SIBVA | HM | Y | 1 MIN | 121.32 | Right | @2000 | -150 |
| | | | | | | | |
| KUKPO | HM | Y | 1 MIN | 090.95 | Right | -4000 +3000 | -150 |

2.22.10 Ground Movement Surveillance - Transponders Operation

2.22.10.1 In addition to the transponder requirements specified in [GEN 1.5.4](#) aircraft are required to switch on transponders when commencing push-back.

2.22.10.2 Aircraft not requiring push-back shall switch on transponders prior to commencing taxiing.

2.22.10.3 Arriving aircraft shall ensure that transponders remain switched on and transmit last assigned code until parked on stand.

2.22.11 EFTA Radio Failure Procedures

2.22.11.1 The following procedures apply to EFTA aircraft experiencing transmitter, or complete radio failure, intending to land at EFTA :

2.22.11.2 Traffic operating in the EFTA local circuit shall:

- a. Squawk 7600
- b. Maintain circuit altitude
- c. Overfly the RWY
- d. Complete a standard EFTA local circuit, while observing EFTA local circuit traffic
- e. Carry out a full stop landing
- f. After landing, vacate the runway at the earliest opportunity (Except TWY A4), taxi to hold short of TXL L1 or TXL L6 and await a Follow-Me vehicle.

2.22.11.3 VFR Departures EFTA RWY 13/31.

2.22.11.3.1 If no radio contact is established with DUBAI APPROACH (AL MAKTOUM RADAR 124.025 MHz or DUBAI SOUTH RADAR 120.400 MHz), pilots are to remain within the confines of the EFTA Tower area of responsibility and to immediately return to the ACADEMY TOWER frequency for assistance. If no contact is established with the ACADEMY TOWER, pilots are to follow the procedures as per [AD 2.22.11.2](#).

2.22.11.3.2 VFR Cross country flights (East) or flights departing to the below areas, [i\) to iv\)](#), shall comply with below procedures, [a\) to f\)](#).

AREAS:

- i. General flying areas
- ii. Areas requiring to be in contact with ABU DHABI INFORMATION
- iii. MBZ 2 - JUMEIRAH B
- iv. MBZ 2 - JUMEIRAH C

PROCEDURES:

- a. Squawk 7600
- b. Maintain 1500 FT; proceed to CONMIX Factory (CM) VRP clear of controlled airspace
- c. If able, orbit at (CM) VRP for 5 minutes
- d. Endeavour to ascertain the runway in use by observing other aircraft
- e. Join the "Outer circuit", then standard circuit, proceed to final and land
- f. After landing, vacate the runway at the earliest opportunity (Except TWY A4), taxi to hold short of TXL L1 or TXL L6 and await a Follow-Me vehicle.

2.22.11.4 IFR departure EFTA RWY 13/31

2.22.11.4.1 As per [ENR 1.6.1.3](#) Radio and radar failure procedures.

2.22.11.5 VFR arrivals EFTA RWY 13/31.

2.22.11.5.1 Traffic arriving from the areas in [AD 2.22.11.3.2 i\) to iv\)](#), shall comply with procedures, [AD 2.22.11.3.2 a\) to f\)](#).

2.22.11.6 IFR arrivals EFTA RWY 13/31

2.22.11.6.1 IFR arrivals shall follow [ENR-1.6.1.3](#) Radio and radar failure procedure. Once established on final approach, carry out a full-stop landing and comply with [AD 2.22.11.2 f\)](#).

2.22.12 Enhanced Wake Turbulence Separation (eWTS).

2.22.12.1 The ICAO unified eWTS minima RECAT system is applied within DUBAI CTA and airspace controlled by Dubai Approach. It distinguishes seven (A to G) Wake Turbulence Groups (WTG) of aircraft based on wake generation and resistance characteristics of the aircraft depending primarily on maximum certificated take-off mass, wing characteristics and speeds.

2.22.12.2 The eWTS system includes distance-based Wake Turbulence Separation minima for aircraft being provided with an ATS surveillance service in the approach and departure phases of flight and time-based separations on departure for the takeoff phase of flight (Refer ICAO Doc 4444 PANS - ATM, Chapters 4,5 and 8).

2.22.12.3 In order to benefit from this reduction of separation minima, pilots are to fully comply with assigned speeds, particularly on final approach, and to minimise runway occupancy time. When crews are unable to maintain any assigned speeds, they must inform ATC as soon as possible.

2.22.12.4 The implementation of the ICAO eWTS scheme does not change the format for completion or filling out a flight plan. The WTC designator on the ICAO flight plan does not change. Pilots are to continue to fill in the flight plan WTC in item 9 with the ICAO aircraft category, H, M or L, and J for SUPER HEAVY category.

2.22.12.5 All aircraft operating within the DUBAI CTA must enter the appropriate aircraft type designator, as per ICAO document 8643, in item 9 of their flight plan. The use of incorrect aircraft type designator may result in possible delays due to RDR system flight plan rejection or system allocation of an unknown aircraft type resulting in larger separation application by ATC.

2.22.12.6 For aircraft in the ICAO SUPER or HEAVY WTC, the suffix of 'SUPER' or 'HEAVY' does not change. On first transmission, the word "SUPER" or "HEAVY" shall still be included, as appropriate, immediately after the aircraft call sign in the initial radiotelephony contact between such aircraft and the ATS units.

OMDW AD 2.23 ADDITIONAL INFORMATION

2.23.1 Bird activity

2.23.1.1 Bird hazard exists; activity in the vicinity of the aerodrome increases from October to March with maximum numbers between early December and mid-February.

2.23.2 Low visibility procedures

2.23.2.1 Low visibility operations shall commence when:

- a. Touchdown IRVR readings indicate a visibility of 600 M or less;
- b. The reported meteorological visibility indicates 800 M or less (if IRVR is not available);
- c. The reported cloud base is less than 300 FT.

2.23.2.2 Regulations require serviceable surface movement radar for operations to continue when meteorological visibility or IRVR is less than 300 M. Any unserviceability may result in delays in the affected areas of coverage.

2.23.2.3 Arriving aircraft shall delay reporting "Runway vacated" until the aircraft has completely passed the end of the green / yellow coded TWY CL lights.

2.23.2.4 TXL Z11, TXL Z12, TXL Z13, TXL Z14, TXL Z15, TXL Z16, TXL Z17, TXL Z20, TXL Z21, TXL Z22, TXL Z23 and TXL Z24 restricted to CAT II during LVO. Refer to local procedures.

2.23.2.5 EFTA RWY 31 CAT I with minimum RVR 1000 M / DH 270 FT/ Cloud Base 230 FT only. RWY 13 NPA with 1500 M MET visibility.

2.23.2.6 Airborne EFTA aircraft will be required to divert to RWY 12/30 in the event conditions falls below those mentioned in [AD 2.23.2.5](#).

2.23.3 Surface movement guidance and control system and markings

Note: Long range radar available (H24).

2.23.3.1 Arrival Procedures

2.23.3.1.1 Nose-wheel guidelines on taxiways and aprons, except box stands.

2.23.3.1.2 Nose-in parking is mandatory, exemptions only given in special cases with specific authorisation from the airport authority.

2.23.3.1.3 Turn onto stand when the nose-wheel is approximately in line with the stand centre line marking. Operators are not permitted to self manoeuvre off stand centre line. In the event an operator enters the wrong stand, hold position and contact ATC.

2.23.3.1.4 Parking stands are equipped with VDGS except for G100 - G102 and G3 - G8 and EFTA stands located on APRON 1 to APRON 5, aircraft must be marshalled (excluding EFTA).

Note 1: Pilots should not enter an aircraft stand unless the VDGS is illuminated or a marshaller has signalled clearance to proceed. In the event of there being no activated VDGS displayed upon approach to the stand, flight crews should contact ATC to request marshalling assistance. Aircrew must not attempt to self park if the VDGS is not illuminated or calibrated for their aircraft type.

Note 2: VDGS units used at OMDW will not operate below CAT III conditions (visibility down to 175 M), if VDGS unit is not illuminated or failing to capture aircraft, aircrew must stop and request marshalling assistance from ATC.

2.23.3.1.5 VDGS is not suitable for all aircraft types; a marshaller is provided in these cases.

2.23.3.1.6 Aircraft taxiing on Taxilane Z16 and Taxilane Z17 must use no more than idle power. If aircraft is stopped prior to docking on stands G1 - G9, G12, G13 and G16, docking must be completed under tow.

2.23.3.1.7 VDGS

- a. The VDGS system is installed for the CL of all stands except for L & R Multiple Aircraft Ramp System stands. It displays to pilots on large LED Board azimuth and distance - to - go information to position arriving aircraft accurately to the pre-set aircraft stop position in the parking stand.
- b. The Aircraft docking guidance system consists of an LED Board to display real time docking guidance information to pilots, a microprocessor Control Unit, a Laser Scanning Unit and an operator Control Panel with real time information display.
- c. Pilots should follow the taxilane lead-in ground marking to initiate the turn into the parking stand. The VDGS unit will be set to capture mode prior to the aircraft arrival. The capture mode will display on LED Board the aircraft type with floating areas (^) below (as shown in OMDW VDGS AD 2.23.3.1.9). The docking system will capture the aircraft about 20 degrees from the CL.
- d. Check aircraft type displayed is correct.
- e. Once the VDGS captures the aircraft, the display will change to tracking mode which displays the azimuth guidance on LED Board which shows the relative position of the aircraft (↑) from the CL (T). A flashing red arrow (>) on the LED Board

indicates the direction of turn to align the aircraft nose-wheel with the CL of the parking stand (as shown in OMDW AD 2.23.3.1.9).






- f. The VDGS will display the final closing rate information in meters, which is shown 20 M from the STOP position and rows of light gets extinguished from 20 M. The closing rate is also shown graphically by gradual shortening of the (T) symbol. Slow down the aircraft speed to halt at the STOP position (as shown in [2.23.3.1.9](#))

Note: Aircrew must not proceed unless the floating arrows have been superseded by the closing rate bar.





- g. When the aircraft nose-wheel reaches the correct STOP position, distance - to - go reading reaches zero and the "STOP" signal and red lights are displayed on the LED board to halt the aircraft from any further movement.
- h. The "STOP" will change to an "OK" signal on the LED Board to indicate the aircraft is correctly parked. If the aircraft has overshoot the STOP position, "TOO FAR" signal will be displayed on the LED Board.
- i. The VDGS should be approached at speed not exceeding 3 M per second (5.83 KT) at distance of 10 – 20 M before stop position and 2 M per second (3.89 KT) at distance of 0 – 10 M before stop position.
- j. The VDGS units are controlled and monitored from a central workstation. No Marshaller will be present in stands equipped with fully automatic VDGS.
- k. In the event of malfunction of VDGS, pilots should hold position and inform ATC.

2.23.3.1.8 A follow me vehicle will be provided for all non - standard parking.

2.23.3.1.9 LED Board Display – When VDGS is functioning optimally

| Mode | Display | Description |
|---------------------------------|---|---|
| Not scheduled and not activated |  | <ul style="list-style-type: none"> If only stand number is shown, it means VDGS is not activated. Aircraft should not enter stand. |
| Scheduled but not activated |  | <ul style="list-style-type: none"> The aircraft is allocated to the stand and hence call sign and a figure shows EIBT with countdown timer appears on the VDGS. However VDGS is not yet activated, as vertical floating arrows are missing. Report to ATC if VDGS not activated. Wait for the vertical floating arrows to enter the stand. |
| Capture |  | <ul style="list-style-type: none"> The vertical floating arrows indicate that the system is activated and is in Capture mode and searching for an approaching aircraft. Pilots shall check that the correct aircraft type is displayed. Pilot must not proceed beyond the boarding bridge unless the vertical floating arrows are superseded by yellow Closing Rate Bar. |
| Tracking |  | <ul style="list-style-type: none"> When the aircraft has been caught by the laser, the vertical floating arrows is replaced by the yellow Closing Rate Bar. If a flashing red indicator is displayed, then this is indicating the direction of turn required to be taken to align onto the lead-in line. |
| Closing Rate (digital) |  | This is the digital count down from a specific distance to the stop position. |

2.23.3.1.10 LED Board Display – Examples of VDGS Failures

| Failure Type | Display | Description |
|-------------------------------|--|---|
| OVERSHOOT |  | If the aircraft has overshoot the stop-position, 'TOO FAR' will be displayed. |
| STOP SHORT |  | If the aircraft is found standing still but has not reached the intended stop position, the message 'STOP, OK' will be shown after a pre- configured time. |
| AIRCRAFT VERIFICATION FAILURE |  | During entry into the Stand, the aircraft geometry is being checked. If, for any reason, aircraft verification is not made 12 M before the stop-position, the display will first show 'WAIT' and make a second verification check. If this fails, 'STOP' and 'ID FAIL' will be displayed. |
| GATE BLOCKED |  | If an object is found blocking the approach to gate/apron view from the safedock to the planned stop position for the aircraft, the docking procedure will be halted with a 'WAIT' and 'GATE BLOCK' message. |

2.23.3.2 Engine runs on stand are permitted for single engine at idle power, for a duration of 5 minutes. Requests shall be made via telephone to the Operations Duty Manager Airside (+971 56 788 2374) for OMDW operations and EFTA Officer Airside (+971 56 508 7924) for EFTA operations. Requests for any engine runs that will be required above idle, longer than 5 minutes or for multiple engines, are subject to assessment by the respective Airside in-charge. The airport operator reserves the right to refuse a request for operational or safety reasons. ATC are to be notified prior to the commencement of the run.

2.23.3.3 Aircraft operators that arrive at OMDW with an unknown departure time or a departure time greater than 12 hours are restricted from refueling their tanks above 85%. This is to prevent fuel expansion which results in fuel spillage. Aircraft operators can fill their remaining requirements within 3 hours of departure.

2.23.3.4 Start-up and Push-back approval procedures.

2.23.3.4.1 Aircraft are expected to start-up during push-back unless otherwise advised by ATC. Aircraft wishing to start engines either before or after push-back should notify ATC.

2.23.3.4.2 Engine starts on the stand using more than idle power are prohibited. Aircraft requiring cross bleed start are required to request via ATC and be pushed back prior to the commencement of cross bleed.

2.23.3.4.3 Push-backs are onto active taxiways and can only be obtained from AL MAKTOUM GROUND. Approval to start on stand does not imply an approval to push-back.

2.23.3.4.4 DNATA and certain operating companies with trained drivers, are the only approved agencies for executing push-backs. Their procedures are mandatory. However, it is the pilots responsibility to obtain push-back approval from ATC and relay the same to their ground engineers prior to commencing push-back.

2.23.3.4.5 Self-push-backs (reverse thrust) and self-manoeuving on stand is not permitted unless approval is given from the airport authority. It is the Ground Handlers responsibility to ensure that the correct facilities and equipment are available for the aircraft type prior to acceptance.

2.23.3.4.6 Pushbacks are only permitted to the taxiway closest to the stand. Pushbacks to outer taxiways are prohibited.

2.23.3.5 Start-up approval procedures(EFTA)

2.23.3.5.1 Aircraft operating at EFTA are to request start-up and initial taxi instructions from the EFTA Operations Centre. Start-up is expected on the stand and to taxi forward (pushback not required).

2.23.3.5.2 Aircraft operating at EFTA are to contact ACADEMY TOWER upon reaching L1, L2, L3, L4, L5 and L6 ITHP. Entry onto TWY A requires ATC approval.

2.23.4 Runway visual range

2.23.4.1 Transmissometers are available for reporting RVR. For locations see Charts OMDW AD 2-21A and OMDW AD 2-21C.

2.23.4.2 For radio transmission purposes the locations on RWY 12 / 30 will be designated as:

ALPHA: Touchdown

BRAVO: Mid-point

CHARLIE: Stop end

2.23.4.3 For radio transmission purposes the locations on RWY 13/31 will be designated as:

ALPHA : touchdown

BRAVO: STOP end

2.23.4.4 Visibility below 2000 M is reported in the following incremental steps:

a) RWY 12 / 30

50 M to 400 M: 25 M

400 M to 800 M: 50 M

800 M to 2000 M: 100 M

b) RWY 13/31

800 M to 2000 M: 100 M

Note: See [GEN 3.5.3.5](#) for reporting procedures

2.23.4.5 For low visibility departures all IRVR for the departure RWY shall be serviceable except that the THR IRVR is not required when the reported meteorological visibility is more than 150 M.

2.23.5 Reduced Runway Separation Minima (RRSM)

2.23.5.1 When conditions permit, special landing and departing procedures may be used at DUBAI / AL MAKTOUM INTERNATIONAL for RWY 12/30, subject to the procedures and conditions shown hereunder:

2.23.5.2 Landing following landing

When the runway in use is temporarily occupied by the previous landing traffic, a landing clearance may be issued to the next landing aircraft provided that ATC has reasonable assurance that the following separation distance will be met when the landing aircraft crosses the runway threshold:

- a. RWY 12
The preceding landing aircraft has landed and has vacated the runway or has passed a point at least 2400 M from the threshold (abeam TWY W12); and is in motion and will vacate the runway without stopping and/or backtracking.
- b. RWY 30
The preceding landing aircraft has landed and has vacated the runway or has passed a point at least 2400 M from the threshold (abeam TWY W10); and is in motion and will vacate the runway without stopping and/or backtracking.

2.23.5.3 Landing following departure

When the runway in use is temporarily occupied by a previous departing aircraft, a landing clearance may be issued provided that ATC has reasonable assurance that the following separation distance will be met when the landing aircraft crosses the runway threshold:

- a. RWY 12
The preceding departing aircraft is, or will be, airborne and has passed a point at least 2400 M from the threshold (abeam TWY W12).
- b. RWY 30
The preceding departing aircraft is, or will be, airborne and has passed a point at least 2400 M from the threshold (abeam TWY W10).

2.23.5.4 Departure following a departure

Take-off clearance may be issued to a departing aircraft, commencing its take-off roll from the threshold (TWY V1 or TWY V21) before the preceding departing aircraft has passed the upwind end of the runway, provided that:

- a. RWY 12
The preceding aircraft is airborne and has passed a point at least 2450 M from the threshold (abeam TWY W12) and increasing separation continues to exist between the two aircraft immediately after take-off of the second.
- b. RWY 30
The preceding aircraft is airborne and has passed a point at least 2400 M from the threshold (abeam TWY W10) and increasing separation continues to exist between the two aircraft immediately after take-off of the second.

2.23.5.5 Conditions for the Application of RRSM

RRSM may be applied by day only between:

- a. A departing aircraft and a succeeding landing aircraft; or
- b. Two successive landing aircraft; or
- c. Two successive departing aircraft.

Provided that:

- i. Tail wind does not exceed 5 KTS, and there are no reports of wind shear;
- ii. MET visibility shall be equal to or greater than 5 KM and the cloud ceiling shall not be lower than 1000 FT and the Air Traffic Controller is satisfied that the pilot of the following aircraft will be able to observe the relevant traffic clearly and continuously;
- iii. The pilot of the following aircraft is provided with traffic information;
- iv. The runway is dry and there is no evidence that the braking action may be adversely affected;
- v. The controller is able to assess separation visually or by radar derived information;
- vi. Wake turbulence separation minima shall be applied;
- vii. Minimum separation continues to exist between two departing aircraft immediately after takeoff of the second aircraft.

2.23.5.6 Traffic Information Phraseology for pilot of following aircraft

When applying RRSM in a scenario where the runway is temporarily occupied by a previously landed or departing aircraft, ATC shall provide a warning (traffic information) to the following aircraft when issuing the landing clearance or departure clearance.

The following examples illustrate ICAO standard phraseology that will be used:

- a. Landing Clearance Phraseology
"(Call sign) (traffic information e.g. aircraft type & vacating point), wind (direction (.) / speed (knots)), Runway (number) cleared to land"

"(Call sign) (traffic information e.g. aircraft type departing ahead), wind (direction (.) / speed (knots)), Runway (number) cleared to land"
- b. Departing Clearance Phraseology
"(Call sign) (traffic information e.g. aircraft type departing ahead), wind (direction (.) / speed (knots)), Runway (number) cleared for take-off"

2.23.6 Wind Shear Warnings

2.23.6.1 General

Wind Shear reports added to a METAR shall be as per ICAO Annex 3, Appendix 3, Table A3-2.

2.23.6.2 Wind Shear reports passed by ATC

- i. On receipt of any report of wind shear, ATC will:
 - * Immediately relay the report to other aircraft potentially affected;
 - * Pass the full report to the MET Office; and
 - * Pass the information to other ATC units that may be affected;
- ii. Wind shear reports that are relayed by to other aircraft will contain as many of the following details as possible:
 - * Aircraft type that reported the wind shear;
 - * Description of event (e.g. light/moderate severe, or positive/negative);
 - * Height/altitude wind shear encountered;
 - * Phase of flight;
 - * Runway;
 - * Time of encounter;
 - * MET/operational information as received from the reporting pilot;
 - * Effect on aircraft and/or action taken by the pilot.
- iii. Examples of the phraseology used by ATC to pass on wind shear reports:
 - a. "CAUTION WIND SHEAR. AT (TIME) (AIRCRAFT TYPE) REPORTED STRONG WIND AT (HEIGHT/ALTITUDE) FEET ON APPROACH RWY (DESIGNATOR). MAX THRUST WAS REQUIRED".
 - b. "CAUTION WIND SHEAR. AT (TIME) (AIRCRAFT TYPE) REPORTED AFTER DEPARTING RUNWAY (DESIGNATOR) AT (HEIGHT/ALTITUDE) FEET AIRSPEED LOSS OF (NUMBER) KNOTS, STRONG (LEFT/RIGHT) DRIFT".

2.23.6.3 Wind Shear Warnings on ATIS

- i. Wind shear warning issued by NCM or received from an aircraft will be broadcast on the ATIS.
- ii. Regardless of any relevant information being broadcast on the ATIS, during final approach and prior to take-off, ATC will transmit to aircraft without delay:
 - * The latest information, on wind shear in the approach, final approach, take-off and climb-out area; and
 - * Any significant variations in the current surface wind, expressed in terms of minimum and maximum values.

2.23.6.4 Pilot Reports of Wind Shear

- i. For the benefit of subsequent aircraft and for validation and further enhancement of the low-level wind shear warning, pilots are requested to inform ATC if they experience any wind shear on arrival or departure, irrespective of whether a warning has been given. ATC will pass such reports to following aircraft and the MET Office. Pilot reports should conform to the requirements of ICAO Annex 3, Appendix 4, section 4.1.
- ii. Wind shear reports will continue to be passed by ATC to pilots likely to be affected until it is confirmed, either by subsequent aircraft reports or by advice from the MET Office that conditions are no longer a hazard to the operations.

2.23.6.5 1000 FT and Below Winds

If a Wind Shear Warning has been issued, aircraft may be requested by ATC to state the 1000 FT and below winds when able. ATC will then subsequently pass this information onto following aircraft whilst the Wind Shear Warning is in force.

OMDW AD 2.24 CHARTS RELATED TO AERODROME

| | |
|---|-------------------------------------|
| AD CHART - ICAO (Chart OMDW-AD-2-21A) | Chart OMDW-AD-2-21A |
| HELIPORT CHART - ICAO (Chart OMDW-AD-2-21B) | Chart OMDW-AD-2-21B |
| EFTA CHART (Chart OMDW-AD-2-21C) | Chart OMDW-AD-2-21C |
| AIRCRAFT PARKING/DOCKING CHART - ICAO APRONS S2, S3, S4, S8 (Chart OMDW-AD-2-22A) | Chart OMDW-AD-2-22A |
| OMDW-AD-2-22A | |
| AIRCRAFT PARKING/DOCKING CHART - ICAO APRON G (Chart OMDW-AD-2-22B) | Chart OMDW-AD-2-22B |
| AIRCRAFT PARKING/DOCKING CHART - ICAO EFTA APRONS 1, 2, 3, 4, 5 (Chart OMDW-AD-2-22C) | Chart OMDW-AD-2-22C |
| OMDW-AD-2-22C | |
| RUNWAY INCURSION HOT SPOT AREAS (Chart OMDW-AD-2-25A) | Chart OMDW-AD-2-25A |
| TAXIWAY INCURSION HOT SPOT AREAS (Chart OMDW-AD-2-25B) | Chart OMDW-AD-2-25B |
| TAXIWAY INCURSION HOT SPOT AREAS (Text OMDW-AD-2-25B) | Text OMDW-AD-2-25B |
| LOW VIS TAXI RTE ARR RWY 12 (Chart OMDW-AD-2-26) | Chart OMDW-AD-2-26 |
| LOW VIS TAXI RTE ARR RWY 30 (Chart OMDW-AD-2-27) | Chart OMDW-AD-2-27 |
| LOW VIS TAXI RTE DEP RWY 12 (Chart OMDW-AD-2-28) | Chart OMDW-AD-2-28 |
| LOW VIS TAXI RTE DEP RWY 30 (Chart OMDW-AD-2-29) | Chart OMDW-AD-2-29 |
| AD OBSTACLE CHART - ICAO TYPE A RWY 12/30 (Chart OMDW-AD-2-31) | Chart OMDW-AD-2-31 |
| AD OBSTACLE CHART - ICAO TYPE A RWY 13/31 (Chart OMDW-AD-2-33) | Chart OMDW-AD-2-33 |
| PRECISION APPROACH TERRAIN CHART - ICAO RWY 12 (Chart OMDW-AD-2-35) | Chart OMDW-AD-2-35 |
| PRECISION APPROACH TERRAIN CHART - ICAO RWY 30 (Chart OMDW-AD-2-36) | Chart OMDW-AD-2-36 |
| SID CHART - ICAO RWY 30 RNAV1 ANVIX 4L, DAVMO 4L, EMERU 1L, KUTLI 3L, MIROT 3L, NABIX 3L, NOLSU 3L, RIDAP 3L, SENPA 3L (Chart OMDW-AD-2-41) | Chart OMDW-AD-2-41 |
| SID CHART - ICAO RWY 12 RNAV1 ANVIX 6J, DAVMO 5J, EMERU 3J, KUTLI 4J, MIROT 4J, NABIX 4J, NOLSU 3J, RIDAP 4J, SENPA 4J (Chart OMDW-AD-2-42) | Chart OMDW-AD-2-42 |
| SID CHART - ICAO RWY 31 RNAV1 ANVIX 1P, MIROT 1P, NABIX 1P (Chart OMDW-AD-2-43) ... | Chart OMDW-AD-2-43 |
| SID CHART - ICAO RWY 13 RNAV1 ANVIX 2N, MIROT 1N, NABIX 1N (Chart OMDW-AD-2-44) ... | Chart OMDW-AD-2-44 |
| STAR CHART - ICAO RWY 30 / 31 RNAV1 DATOB 5Z, ELOVU 3Z, GERUL 3Z, GIDIS 5Z, GONVI 5Z, LORID 3Z, PUVAL 6Z, UMAMI 4Z (Chart OMDW-AD-2-45) | Chart OMDW-AD-2-45 |
| STAR CHART - ICAO RWY 12 / 13 RNAV1 DATOB 5Y, ELOVU 3Y, GERUL 3Y, GIDIS 5Y, GONVI 5Y, LORID 3Y, PUVAL 6Y, UMAMI 4Y (Chart OMDW-AD-2-46) | Chart OMDW-AD-2-46 |
| IAC - ICAO RWY 12 ILS CAT A-D _L (Chart OMDW-AD-2-61) | Chart OMDW-AD-2-61 |
| IAC - ICAO RNP RWY 12 CAT A-D _L (Chart OMDW-AD-2-62) | Chart OMDW-AD-2-62 |
| IAC - ICAO RWY 30 ILS CAT A-D _L (Chart OMDW-AD-2-63) | Chart OMDW-AD-2-63 |
| IAC - ICAO RNP RWY 30 CAT A-D _L (Chart OMDW-AD-2-64) | Chart OMDW-AD-2-64 |
| IAC - ICAO RNP RWY 13 CAT A-B (Chart OMDW-AD-2-65) | Chart OMDW-AD-2-65 |
| IAC - ICAO RWY 31 ILS CAT A-B (Chart OMDW-AD-2-66) | Chart OMDW-AD-2-66 |
| IAC - ICAO RNP RWY 31 CAT A-B (Chart OMDW-AD-2-67) | Chart OMDW-AD-2-67 |
| BIRD CONCENTRATION CHART (Chart OMDW-AD-2-85) | Chart OMDW-AD-2-85 |

OMDW AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

| NIL (not applicable).

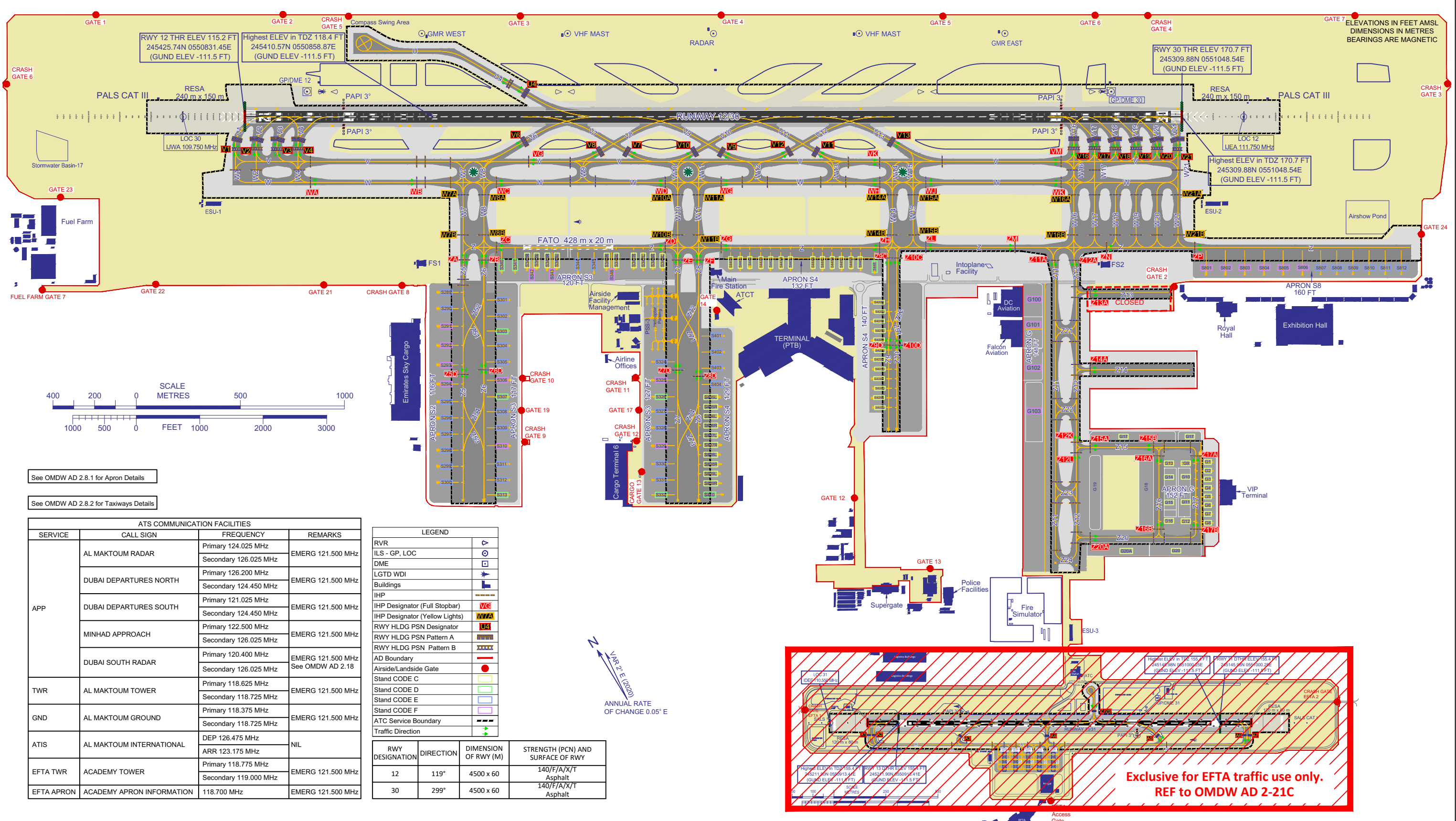
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AERODROME CHART - ICAO

ARP 245506N
0551032E

AD ELEV 171 FT

DUBAI / AL MAKTOUM INTL.
UNITED ARAB EMIRATES



See OMDW AD 2.8.1 for Apron Details

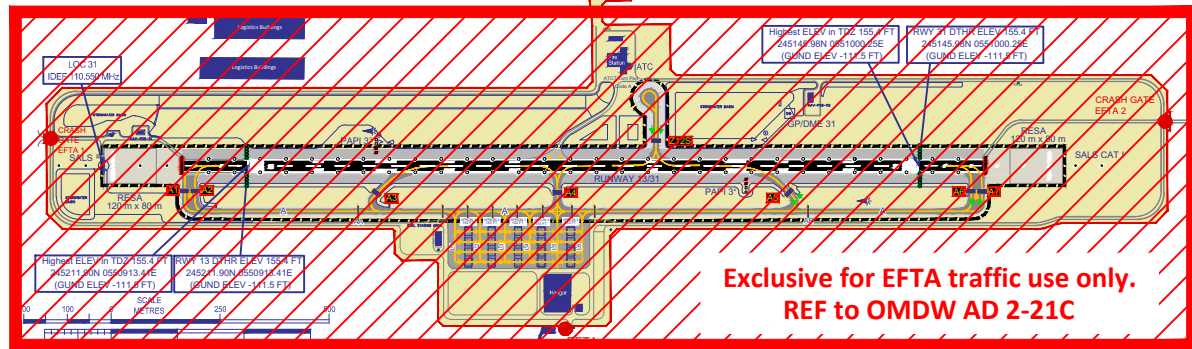
See OMDW AD 2.8.2 for Taxiways Details

| ATS COMMUNICATION FACILITIES | | | |
|------------------------------|---------------------------|-----------------------|-------------------|
| SERVICE | CALL SIGN | FREQUENCY | REMARKS |
| APP | AL MAKTOUM RADAR | Primary 124.025 MHz | EMERG 121.500 MHz |
| | | Secondary 126.025 MHz | |
| | DUBAI DEPARTURES NORTH | Primary 126.200 MHz | EMERG 121.500 MHz |
| | | Secondary 124.450 MHz | |
| | DUBAI DEPARTURES SOUTH | Primary 121.025 MHz | EMERG 121.500 MHz |
| | | Secondary 124.450 MHz | |
| MINHAD APPROACH | Primary 122.500 MHz | EMERG 121.500 MHz | |
| | Secondary 126.025 MHz | | |
| DUBAI SOUTH RADAR | Primary 120.400 MHz | EMERG 121.500 MHz | |
| | Secondary 126.025 MHz | See OMDW AD 2.18 | |
| TWR | AL MAKTOUM TOWER | Primary 118.625 MHz | EMERG 121.500 MHz |
| | | Secondary 118.725 MHz | |
| GND | AL MAKTOUM GROUND | Primary 118.375 MHz | EMERG 121.500 MHz |
| | | Secondary 118.725 MHz | |
| ATIS | AL MAKTOUM INTERNATIONAL | DEP 126.475 MHz | NIL |
| | | ARR 123.175 MHz | |
| EFTA TWR | ACADEMY TOWER | Primary 118.775 MHz | EMERG 121.500 MHz |
| EFTA APRON | ACADEMY APRON INFORMATION | 118.700 MHz | EMERG 121.500 MHz |

| LEGEND | |
|--------------------------------|--|
| RVR | |
| ILS - GP, LOC | |
| DME | |
| LGTD WDI | |
| Buildings | |
| IHP | |
| IHP Designator (Full Stopbar) | |
| IHP Designator (Yellow Lights) | |
| RWY HLDG PSN Designator | |
| RWY HLDG PSN Pattern A | |
| RWY HLDG PSN Pattern B | |
| AD Boundary | |
| Airside/Landside Gate | |
| Stand CODE C | |
| Stand CODE D | |
| Stand CODE E | |
| Stand CODE F | |
| ATC Service Boundary | |
| Traffic Direction | |

| RWY DESIGNATION | DIRECTION | DIMENSION OF RWY (M) | STRENGTH (PCN) AND SURFACE OF RWY |
|-----------------|-----------|----------------------|-----------------------------------|
| 12 | 119° | 4500 x 60 | 140/F/A/X/T Asphalt |
| 30 | 299° | 4500 x 60 | 140/F/A/X/T Asphalt |

N
VAR 2° 00' 00"
ANNUAL RATE OF CHANGE 0.05° E



CHANGES: Added Box Stand G20A. Updated Box Stand G20, Stand Code G100-G103, Legend, Editorial.

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HELIPORT CHART - ICAO

ARP 245506N
0551032E

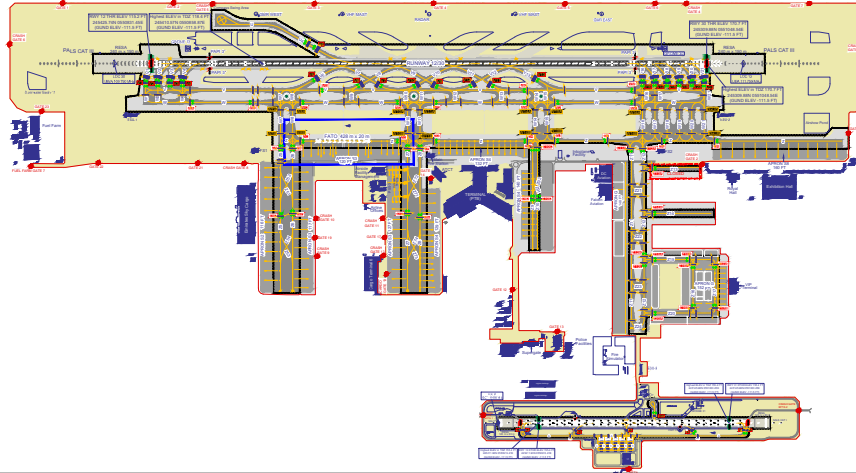
AD ELEV 171 FT

DUBAI/ AL MAKTOUM INTL.
UNITED ARAB EMIRATES

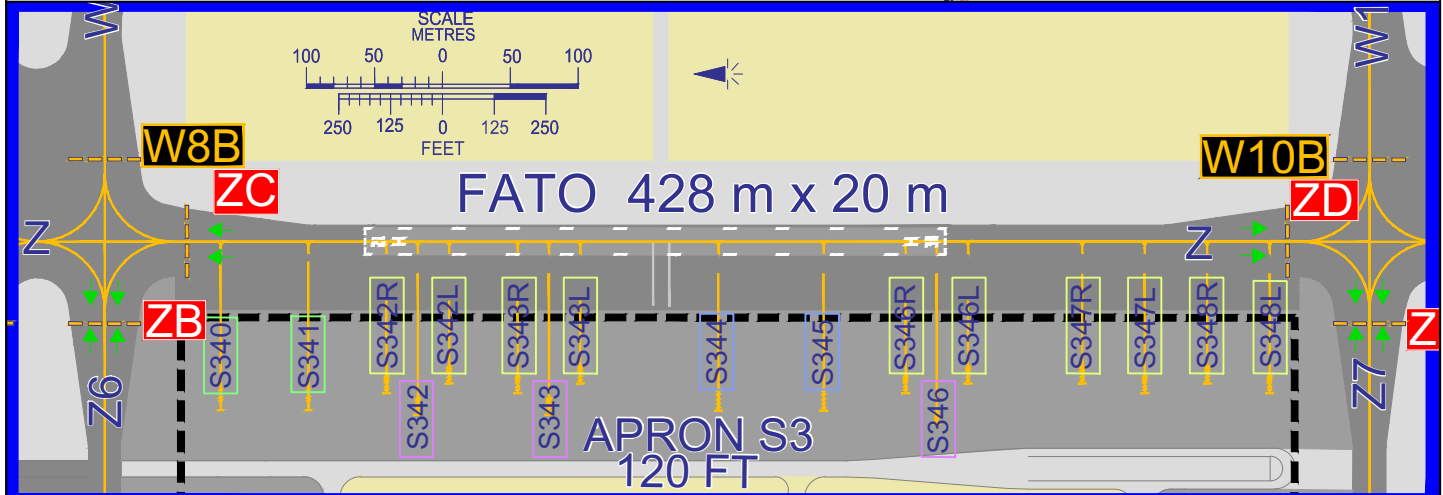
ELEVATIONS ARE AMSL

| FATO | BRG (TRUE) | ELEV | THR COORD | TLOF COORD | SURFACE, STRENGTH | DECLARED DISTANCES (M) | | | TWY AND APRON |
|------|------------|-----------------|----------------------|------------|----------------------------|------------------------|--------|------|--|
| | | | | | | TODAH | RTODAH | LDAH | |
| H12 | 121° | 35.8 M / 117 FT | 245345.7N 0550900.7E | NIL | CONCRETE PCN 90/R/A/W/T | 428 | 428 | 428 | TWY Z WIDTH = 25 M CONC, PCN 90/R/A/W/T |
| H30 | 301° | 37.1 M / 122 FT | 245338.5N 0550913.7E | | | | | | |

| LEGEND | |
|--------------------------------|--|
| RVR | |
| ILS - GP, LOC | |
| DME | |
| LGTD WDI | |
| Buildings | |
| IHP | |
| IHP Designator (Full Stopbar) | |
| IHP Designator (Yellow Lights) | |
| RWY HLDG PSN Designator | |
| RWY HLDG PSN Pattern A | |
| RWY HLDG PSN Pattern B | |
| AD Boundary | |
| Airside/Landside Gate | |
| Stand CODE C | |
| Stand CODE D | |
| Stand CODE E | |
| Stand CODE F | |
| ATC Service Boundary | |
| Traffic Direction | |



NOT TO SCALE



MARKING AIDS FATO H12/H30



NO FATO LIGHTING - use green centre line lights of TWY Z for orientation

NOTES-REMARKS

- SAFETY AREA 435 M x 40 M
- SLOPE 0%

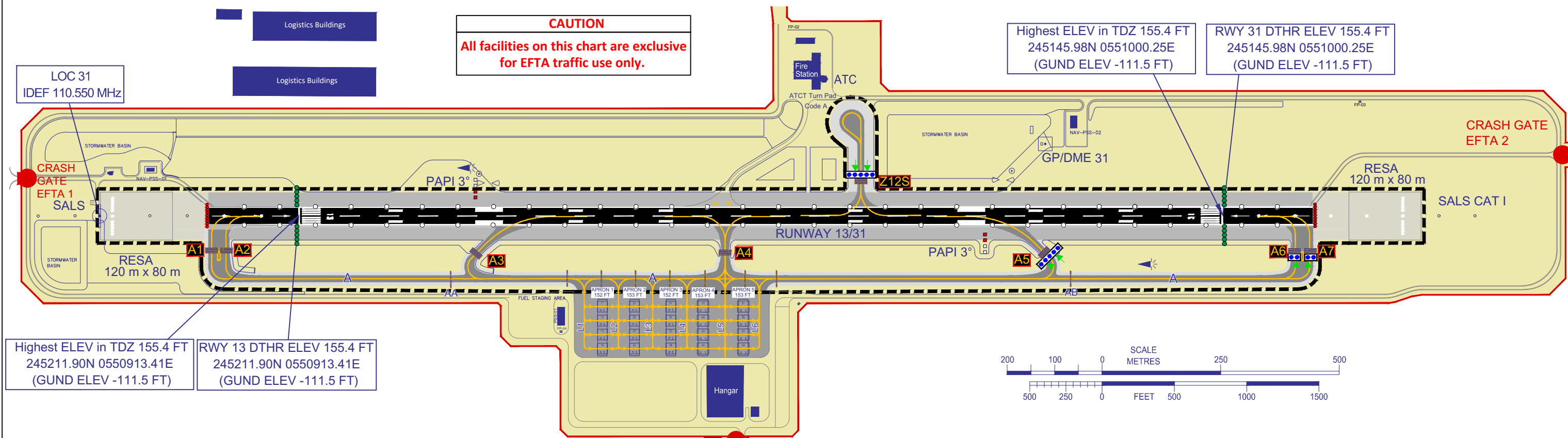
Helicopter operations at FATO H12/H30 to be used by Dubai Police Airwing and Aerogulf Services helicopters only, as directed by ATC.

| ATS COMMUNICATION FACILITIES | | | |
|------------------------------|---------------------------|--|---------------------------------------|
| SERVICE | CALL SIGN | FREQUENCY | REMARKS |
| APP | AL MAKTOUM RADAR | Primary 124.025 MHz Secondary 126.025 MHz | EMERG 121.500 MHz |
| | DUBAI DEPARTURES NORTH | Primary 126.200 MHz Secondary 124.450 MHz | EMERG 121.500 MHz |
| | DUBAI DEPARTURES SOUTH | Primary 121.025 MHz Secondary 124.450 MHz | EMERG 121.500 MHz |
| | MINHAD APPROACH | Primary 122.500 MHz Secondary 126.025 MHz | EMERG 121.500 MHz |
| | DUBAI SOUTH RADAR | Primary 120.400 MHz Secondary 126.025 MHz | EMERG 121.500 MHz See OMDW AD 2.18 |
| TWR | AL MAKTOUM TOWER | Primary 118.625 MHz Secondary 118.725 MHz | EMERG 121.500 MHz |
| GND | AL MAKTOUM GROUND | Primary 118.375 MHz Secondary 118.725 MHz | EMERG 121.500 MHz |
| ATIS | AL MAKTOUM INTERNATIONAL | DEP 126.475 MHz ARR 123.175 MHz | NIL |
| EFTA TWR | ACADEMY TOWER | Primary 118.775 MHz Secondary 119.000 MHz | EMERG 121.500 MHz |
| EFTA APRON | ACADEMY APRON INFORMATION | 118.700 MHz | EMERG 121.500 MHz |

CHANGES: Added Box Stand G20A. Updated Box Stand G20. Legend. Editorial.

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ELEVATIONS IN FEET AMSL
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC



Highest ELEV in TDZ 155.4 FT
245211.90N 0550913.41E
(GUND ELEV -111.5 FT)

RWY 13 DTHR ELEV 155.4 FT
245211.90N 0550913.41E
(GUND ELEV -111.5 FT)

Highest ELEV in TDZ 155.4 FT
245145.98N 0551000.25E
(GUND ELEV -111.5 FT)

RWY 31 DTHR ELEV 155.4 FT
245145.98N 0551000.25E
(GUND ELEV -111.5 FT)

| LEGEND | |
|-------------------------|--|
| RVR | |
| ILS - GP, LOC | |
| DME | |
| LGTD WDI | |
| Buildings | |
| IHP | |
| RWY HLDG PSN Pattern A | |
| RWY HLDG PSN Pattern B | |
| RWY HLDG PSN Designator | |
| AD Boundary | |
| Airside/Landside Gate | |
| RWY Hold Stopbar CAT I | |
| ATC Service Boundary | |
| Traffic Direction | |

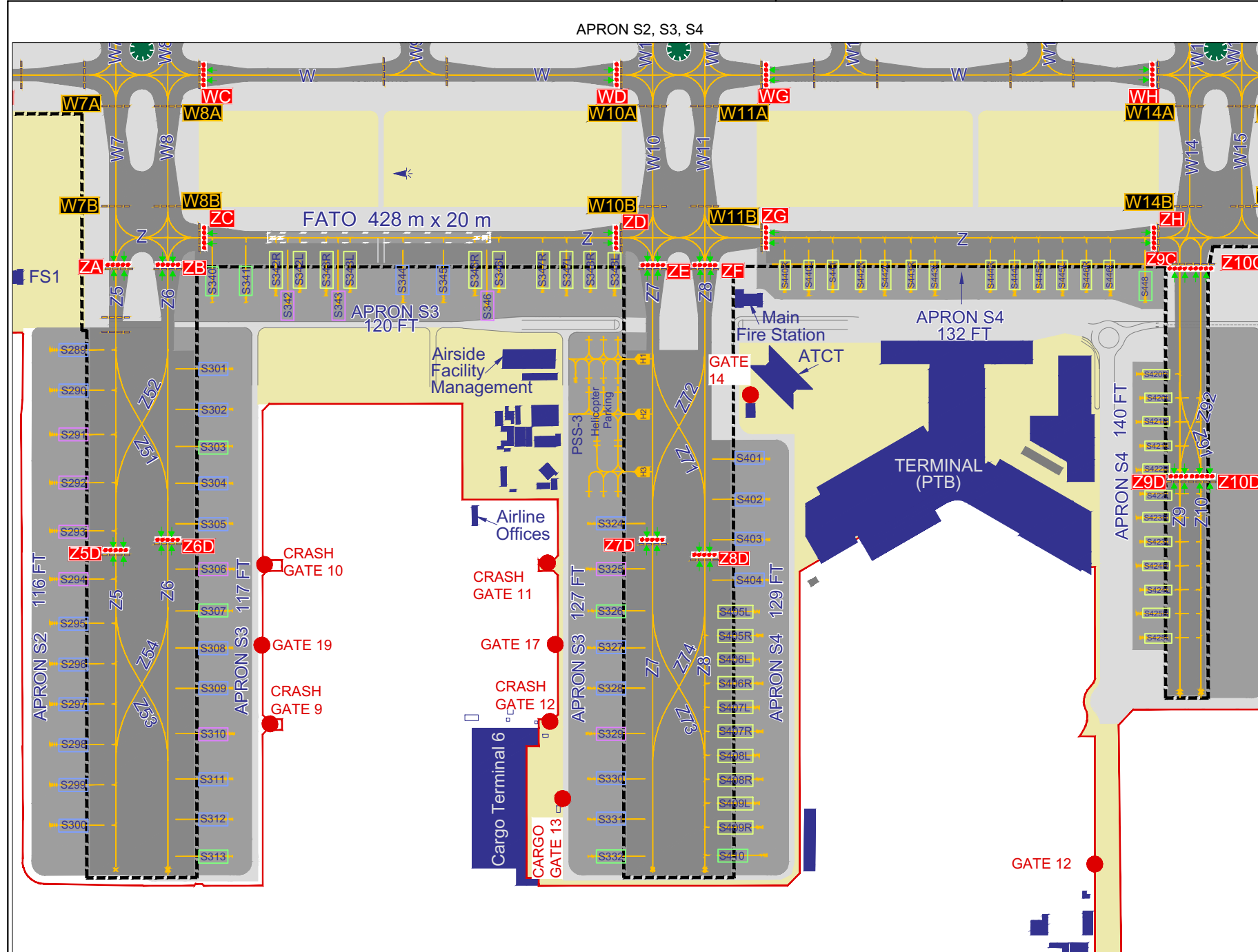
| RWY DESIGNATION | DIRECTION | DIMENSION OF RWY (M) | STRENGTH (PCN) AND SURFACE OF RWY |
|-----------------|-----------|----------------------|-----------------------------------|
| 13 | 119° | 1838 x 30 | 6/F/B/Y/T Asphalt |
| 31 | 299° | 1838 x 30 | 6/F/B/Y/T Asphalt |

See OMDW AD 2.8.1 for Apron Details
See OMDW AD 2.8.2 for Taxiways Details

| ATS COMMUNICATION FACILITIES | | | | | | |
|------------------------------|---------------------------|-----------------------|-----------------|-------------------|---------------------------------------|-------------------|
| SERVICE | CALL SIGN | FREQUENCY | SATVOICE | LOGON ADDRESS | HOURS OF OPERATION | REMARKS |
| APP | AL MAKTOUM RADAR | Primary 124.025 MHz | Not Implemented | Not Implemented | H24 | EMERG 121.500 MHz |
| | | Secondary 126.025 MHz | | | | |
| | DUBAI DEPARTURES SOUTH | Primary 121.025 MHz | | | | |
| DUBAI SOUTH RADAR | Primary 120.400 MHz | H24 | | | EMERG 121.500 MHz See OMDW AD 2.18 | |
| | Secondary 126.025 MHz | | | | | |
| EFTA TWR | ACADEMY TOWER | Primary 118.775 MHz | | | Not Implemented | Not Implemented |
| | | Secondary 119.000 MHz | | | | |
| EFTA APRON | ACADEMY APRON INFORMATION | 118.700 MHz | | | | |
| TWR | AL MAKTOUM TOWER | Primary 118.625 MHz | H24 | EMERG 121.500 MHz | | |
| | | Secondary 118.725 MHz | | | | |

CHANGES: Updated Legend.

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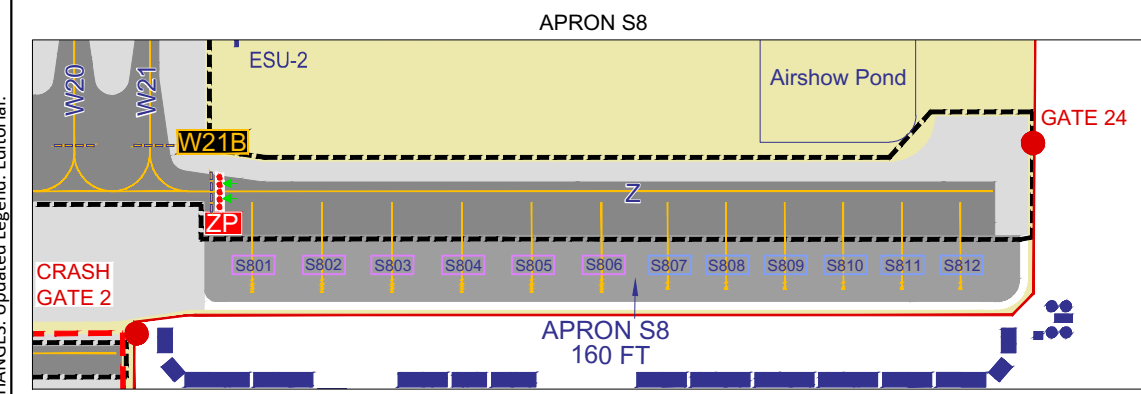
| APRON S3 | | | |
|----------|------------|-------------|-----------|
| STAND | LATITUDE | LONGITUDE | ELEV (FT) |
| S301 | 245339.85N | 0550853.98E | 117.3 |
| S302 | 245337.70N | 0550852.55E | 117.3 |
| S303 | 245335.73N | 0550851.22E | 117.3 |
| S304 | 245333.75N | 0550849.93E | 117.3 |
| S305 | 245331.60N | 0550848.49E | 117.3 |
| S306 | 245329.13N | 0550846.98E | 117.3 |
| S307 | 245326.95N | 0550845.38E | 117.3 |
| S308 | 245324.97N | 0550844.09E | 117.3 |
| S309 | 245322.82N | 0550842.66E | 117.3 |
| S310 | 245320.35N | 0550841.14E | 117.3 |
| S311 | 245317.98N | 0550839.44E | 117.3 |
| S312 | 245315.83N | 0550838.01E | 117.3 |
| S313 | 245313.86N | 0550836.68E | 117.3 |
| S324 | 245320.11N | 0550909.26E | 127.8 |
| S325 | 245317.74N | 0550907.56E | 127.8 |
| S326 | 245315.44N | 0550906.18E | 127.7 |
| S327 | 245313.48N | 0550904.86E | 127.7 |
| S328 | 245311.33N | 0550903.42E | 127.8 |
| S329 | 245308.96N | 0550901.72E | 127.8 |
| S330 | 245306.49N | 0550900.21E | 127.6 |
| S331 | 245304.34N | 0550898.78E | 127.8 |
| S332 | 245302.36N | 0550897.48E | 127.7 |
| S340 | 245344.07N | 0550855.15E | 116.8 |
| S341 | 245342.98N | 0550857.12E | 117.5 |
| S342 | 245341.53N | 0550859.50E | 118.3 |
| S342L | 245341.78N | 0550900.63E | 118.2 |
| S342R | 245342.36N | 0550859.10E | 117.9 |
| S343 | 245339.90N | 0550902.44E | 119.3 |
| S343L | 245340.15N | 0550903.57E | 119.2 |
| S343R | 245340.73N | 0550902.04E | 118.8 |
| S344 | 245337.88N | 0550906.30E | 120.4 |
| S345 | 245336.58N | 0550908.66E | 121.2 |
| S346 | 245334.91N | 0550911.02E | 122.3 |
| S346L | 245335.34N | 0550912.26E | 122.0 |
| S346R | 245335.92N | 0550910.73E | 121.6 |
| S347L | 245332.95N | 0550916.10E | 123.4 |
| S347R | 245333.92N | 0550914.82E | 122.8 |
| S348L | 245331.40N | 0550918.90E | 124.2 |
| S348R | 245332.37N | 0550917.63E | 123.7 |
| H1 | 245328.93N | 0550917.55E | 126.4 |
| H1 | 245329.40N | 0550916.70E | 126.6 |
| H1 | 245329.87N | 0550915.84E | 127.0 |
| H1 | 245328.26N | 0550913.71E | 128.1 |
| H1 | 245327.84N | 0550914.48E | 127.8 |
| H1 | 245327.37N | 0550915.34E | 127.2 |
| H2 | 245326.89N | 0550916.19E | 126.8 |
| H2 | 245326.14N | 0550915.70E | 126.8 |
| H2 | 245326.62N | 0550914.84E | 127.3 |
| H2 | 245327.09N | 0550914.00E | 127.7 |
| H2 | 245324.22N | 0550912.73E | 127.7 |
| H2 | 245323.58N | 0550913.99E | 126.8 |
| H3 | 245324.00N | 0550912.58E | 127.7 |
| H3 | 245323.27N | 0550913.79E | 126.8 |
| H3 | 245321.79N | 0550910.47E | 127.7 |
| H3 | 245321.32N | 0550911.32E | 127.2 |
| H3 | 245320.85N | 0550912.18E | 126.8 |

| APRON S2 | | | |
|----------|------------|-------------|-----------|
| STAND | LATITUDE | LONGITUDE | ELEV (FT) |
| S289 | 245346.78N | 0550843.96E | 114.7 |
| S290 | 245344.63N | 0550842.53E | 116.2 |
| S291 | 245342.27N | 0550840.96E | 116.5 |
| S292 | 245339.70N | 0550839.25E | 116.4 |
| S293 | 245337.13N | 0550837.54E | 116.4 |
| S294 | 245334.56N | 0550835.83E | 116.5 |
| S295 | 245332.19N | 0550834.26E | 116.4 |
| S296 | 245330.04N | 0550832.83E | 116.5 |
| S297 | 245327.89N | 0550831.40E | 116.3 |
| S298 | 245325.73N | 0550829.97E | 116.4 |
| S299 | 245323.58N | 0550828.54E | 116.5 |
| S300 | 245321.43N | 0550827.10E | 116.5 |

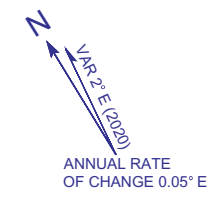
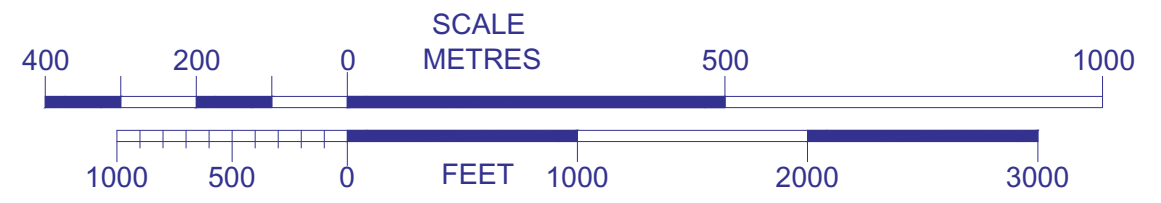
| APRON S4 | | | |
|----------|------------|-------------|-----------|
| STAND | LATITUDE | LONGITUDE | ELEV (FT) |
| S401 | 245317.67N | 0550922.19E | 129.5 |
| S402 | 245315.52N | 0550920.76E | 129.4 |
| S403 | 245313.37N | 0550919.33E | 129.4 |
| S404 | 245311.21N | 0550917.89E | 129.4 |
| S405L | 245309.87N | 0550916.17E | 129.2 |
| S405R | 245308.48N | 0550915.53E | 129.3 |
| S406L | 245307.32N | 0550914.46E | 129.1 |
| S406R | 245305.92N | 0550913.83E | 129.3 |
| S407L | 245304.76N | 0550912.76E | 129.2 |
| S407R | 245303.36N | 0550912.13E | 129.3 |
| S408L | 245302.20N | 0550911.06E | 129.2 |
| S408R | 245300.81N | 0550909.43E | 129.3 |
| S409L | 245259.65N | 0550909.37E | 129.1 |
| S409R | 245258.25N | 0550908.73E | 129.3 |
| S410 | 245256.62N | 0550907.98E | 129.3 |
| S420L | 245308.95N | 0550946.01E | 138.8 |
| S420R | 245310.34N | 0550946.65E | 138.2 |
| S421L | 245306.39N | 0550944.31E | 140.1 |
| S421R | 245307.78N | 0550944.95E | 139.6 |
| S422L | 245303.83N | 0550942.61E | 141.6 |
| S422R | 245305.23N | 0550943.25E | 141.0 |
| S423L | 245301.28N | 0550940.91E | 141.7 |
| S423R | 245302.67N | 0550941.55E | 141.9 |
| S424L | 245258.72N | 0550939.21E | 141.7 |
| S424R | 245300.12N | 0550939.85E | 141.8 |
| S425L | 245256.16N | 0550937.51E | 141.7 |
| S425R | 245257.56N | 0550938.15E | 141.8 |
| S440L | 245325.12N | 0550930.26E | 127.9 |
| S440R | 245326.09N | 0550928.99E | 127.4 |
| S441 | 245324.54N | 0550931.79E | 128.2 |
| S442L | 245322.66N | 0550934.71E | 129.3 |
| S442R | 245323.64N | 0550933.42E | 128.8 |
| S443L | 245321.03N | 0550937.65E | 130.3 |
| S443R | 245322.01N | 0550936.36E | 129.7 |
| S444L | 245318.45N | 0550942.30E | 131.9 |
| S444R | 245319.43N | 0550941.01E | 131.3 |
| S445L | 245316.90N | 0550945.10E | 133.5 |
| S445R | 245317.87N | 0550943.83E | 132.3 |
| S446L | 245315.35N | 0550947.91E | 135.7 |
| S446R | 245316.32N | 0550946.63E | 134.4 |
| S448 | 245313.88N | 0550949.71E | 137.3 |

| APRON S8 | | | |
|----------|------------|-------------|-----------|
| STAND | LATITUDE | LONGITUDE | ELEV (FT) |
| S801 | 245246.79N | 0551038.04E | 161.8 |
| S802 | 245245.23N | 0551040.86E | 161.0 |
| S803 | 245243.67N | 0551043.67E | 160.2 |
| S804 | 245242.11N | 0551046.49E | 159.5 |
| S805 | 245240.55N | 0551049.31E | 158.7 |
| S806 | 245238.99N | 0551052.13E | 157.9 |
| S807 | 245237.62N | 0551054.86E | 157.1 |
| S808 | 245236.31N | 0551057.22E | 156.4 |
| S809 | 245235.01N | 0551059.58E | 155.8 |
| S810 | 245233.70N | 0551101.94E | 155.3 |
| S811 | 245232.39N | 0551104.30E | 156.0 |
| S812 | 245231.09N | 0551106.66E | 157.3 |

| APRON DATA | | |
|-------------|----------|---|
| DESCRIPTION | SURFACE | STRENGTH (Stands) |
| APRON S2 | Concrete | PCN 72/R/B/W/T (S289 - S300) |
| APRON S3 | Concrete | PCN 90/R/A/W/T (S301 - S313) PCN 90/R/A/W/T (S324 - S332) PCN 90/R/A/W/T (S340 - S348L) PCN 90/R/A/W/T (H1 - H3) |
| APRON S4 | Concrete | PCN 90/R/A/W/T (S401 - S410) PCN 90/R/A/W/T (S420R - S425L) PCN 90/R/A/W/T (S440R - S448) |
| APRON S8 | Concrete | PCN 90/R/A/W/T (S801 - S812) |

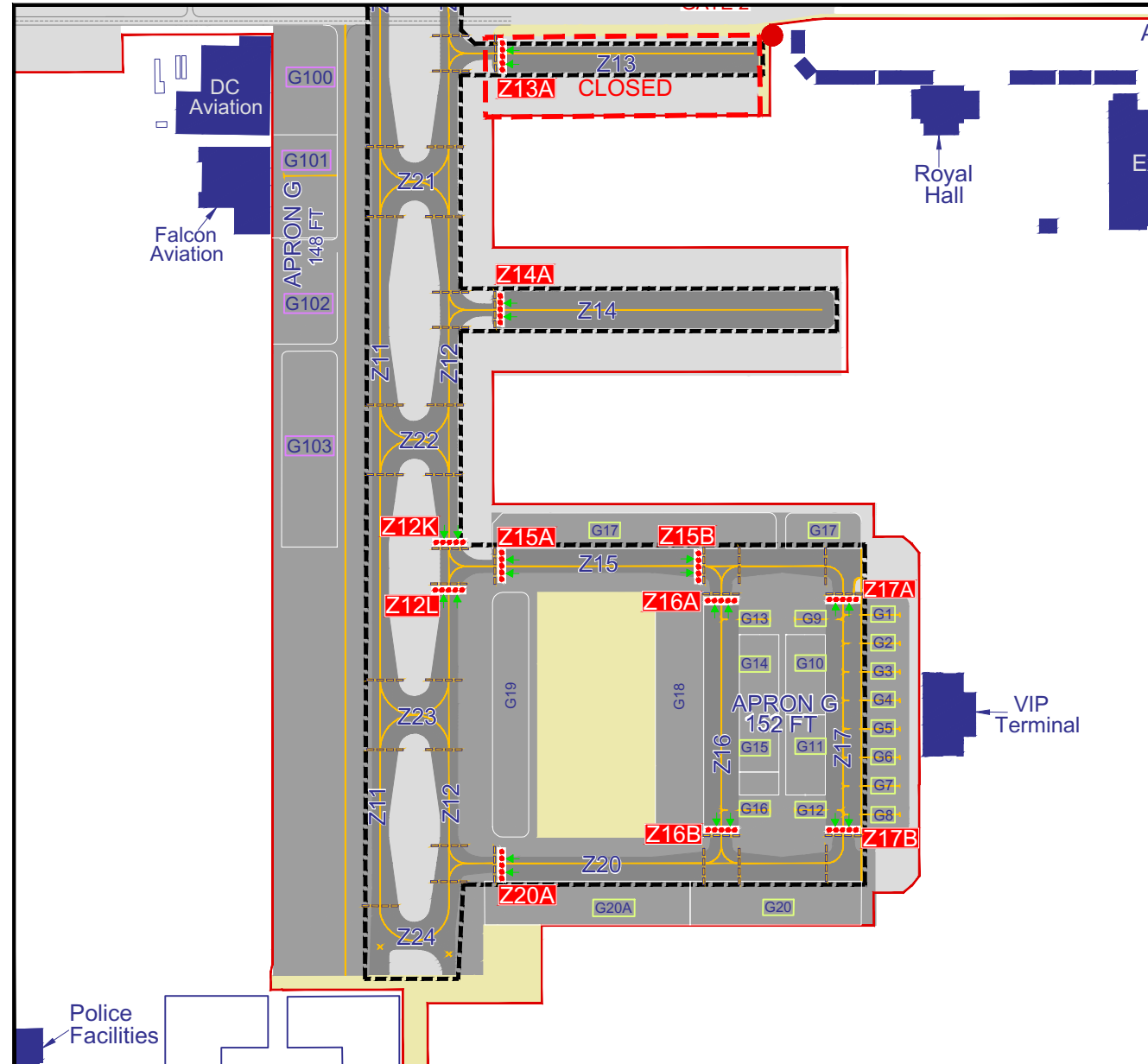


| LEGEND | |
|--------------------------------|--|
| LGTD WDI | |
| Buildings | |
| IHP | |
| IHP Designator (Full Stopbar) | |
| IHP Designator (Yellow Lights) | |
| ITHP Stopbar | |
| Traffic Direction | |
| AD Boundary | |
| Airside/Landside Gate | |
| Stand CODE C | |
| Stand CODE D | |
| Stand CODE E | |
| Stand CODE F | |
| ATC Service Boundary | |



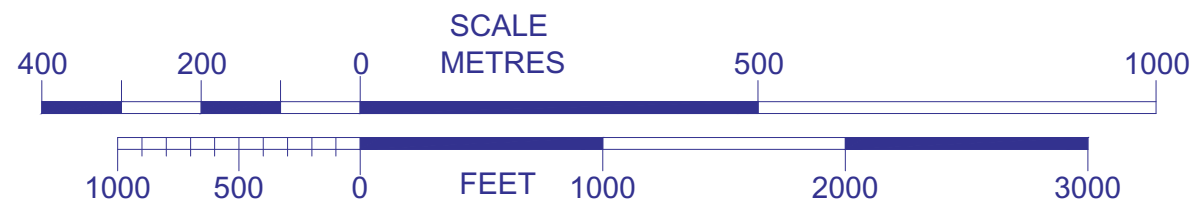
CHANGES: Updated Legend, Editorial.

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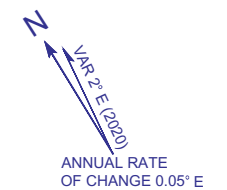


| APRON G | | | |
|------------|------------|-------------|-------------------|
| STAND | LATITUDE | LONGITUDE | ELEV (FT) |
| G1 | 245221.30N | 0551022.44E | 152.3 |
| G2 | 245220.14N | 0551021.67E | 152.4 |
| G3 | 245218.99N | 0551020.91E | 152.4 |
| G4 | 245217.84N | 0551020.14E | 152.4 |
| G5 | 245216.69N | 0551019.37E | 152.4 |
| G6 | 245215.53N | 0551018.60E | 152.4 |
| G7 | 245214.38N | 0551017.84E | 152.4 |
| G8 | 245213.23N | 0551017.07E | 152.4 |
| G9 | 245223.70N | 0551017.65E | 151.8 |
| G12 | 245215.99N | 0551012.52E | 151.8 |
| G13 | 245224.29N | 0551016.58E | 151.8 |
| G16 | 245216.58N | 0551011.45E | 151.8 |
| BOX STANDS | LATITUDE | LONGITUDE | ELEV (FT) |
| G10 | | | Box Stand Parking |
| G11 | | | Box Stand Parking |
| G14 | | | Box Stand Parking |
| G15 | | | Box Stand Parking |
| G17 | | | Box Stand Parking |
| G18 | | | Box Stand Parking |
| G19 | | | Box Stand Parking |
| G20 | | | Box Stand Parking |
| G20A | | | Box Stand Parking |
| G100 | 245258.76N | 0551009.65E | 148.5 |
| G101 | 245254.14N | 0551006.96E | 148.3 |
| G102 | | | Box Stand Parking |
| G103 | | | Box Stand Parking |

| APRON DATA | | |
|-------------|----------|--|
| DESCRIPTION | SURFACE | STRENGTH (Stands) |
| APRON G | Concrete | PCN 62/R/B/W/T (G1 - G8) PCN 62/R/B/W/T (G9 - G16) PCN 62/R/B/W/T (G17 - G20A) PCN 86/R/B/W/T (G100 - G103) |



| LEGEND | |
|-------------------------------|-------------------|
| Buildings | [Blue rectangle] |
| IHP | [Dashed line] |
| IHP Designator (Full Stopbar) | [Red 'VC' symbol] |
| ITHP Stopbar | [Red dotted line] |
| Traffic Direction | [Green arrow] |
| AD Boundary | [Red line] |
| Airside/Landside Gate | [Red circle] |
| Stand CODE C | [Yellow box] |
| Stand CODE F | [Purple box] |
| ATC Service Boundary | [Dashed line] |

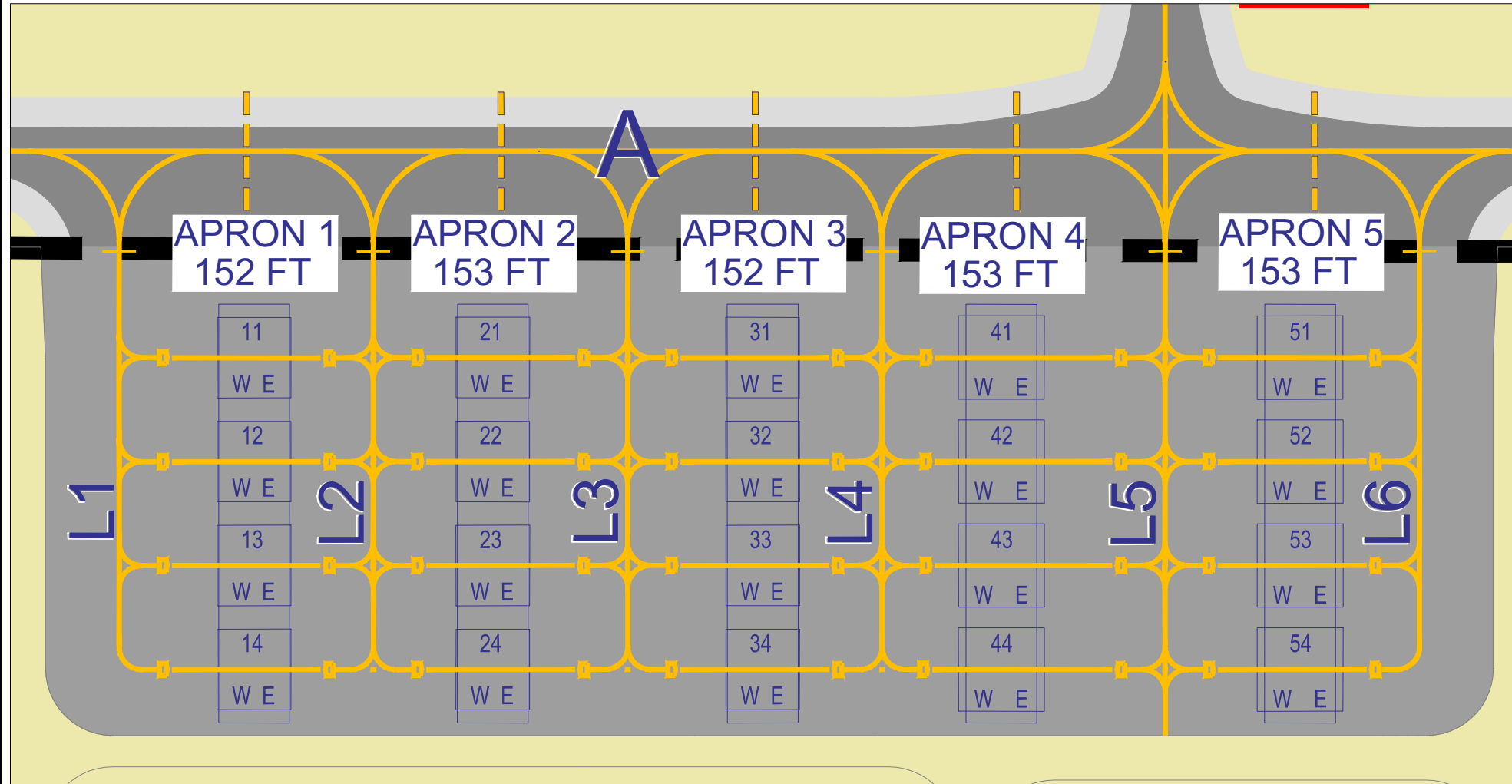


For ATS Communication facilities refer to OMDW-AD-2-21A

CHANGES: Added Box Stand G20A. Updated Apron Data Table, Box Stand G20, Stand Code G100-G103, Legend.

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CAUTION
 All facilities on this chart are exclusive
 for EFTA traffic use only.



APRON 1

| STAND | LATITUDE | LONGITUDE | ELEV (FT) |
|-------|------------|-------------|-----------|
| 11 E | 245159.15N | 0550926.09E | 151.8 |
| 11 W | 245159.23N | 0550925.95E | 151.9 |
| 12 E | 245158.50N | 0550925.66E | 152.3 |
| 12 W | 245158.58N | 0550925.52E | 152.3 |
| 13 E | 245157.86N | 0550925.23E | 152.7 |
| 13 W | 245157.93N | 0550925.09E | 152.7 |
| 14 E | 245157.21N | 0550924.80E | 153.1 |
| 14 W | 245157.29N | 0550924.66E | 153.1 |

APRON 4

| STAND | LATITUDE | LONGITUDE | ELEV (FT) |
|-------|------------|-------------|-----------|
| 41 E | 245156.29N | 0550931.27E | 152.0 |
| 41 W | 245156.45N | 0550930.98E | 152.0 |
| 42 E | 245155.64N | 0550930.84E | 152.4 |
| 42 W | 245155.80N | 0550930.55E | 152.5 |
| 43 E | 245154.99N | 0550930.41E | 152.9 |
| 43 W | 245155.15N | 0550930.12E | 152.8 |
| 44 E | 245154.34N | 0550929.98E | 153.4 |
| 44 W | 245154.50N | 0550929.69E | 153.3 |

APRON 2

| STAND | LATITUDE | LONGITUDE | ELEV (FT) |
|-------|------------|-------------|-----------|
| 21 E | 245158.25N | 0550927.72E | 151.9 |
| 21 W | 245158.33N | 0550927.58E | 151.9 |
| 22 E | 245157.60N | 0550927.29E | 152.4 |
| 22 W | 245157.68N | 0550927.15E | 152.3 |
| 23 E | 245156.95N | 0550926.86E | 152.7 |
| 23 W | 245157.03N | 0550926.72E | 152.7 |
| 24 E | 245156.31N | 0550926.43E | 153.2 |
| 24 W | 245156.38N | 0550926.29E | 153.2 |

APRON 5

| STAND | LATITUDE | LONGITUDE | ELEV (FT) |
|-------|------------|-------------|-----------|
| 51 E | 245155.16N | 0550933.31E | 151.9 |
| 51 W | 245155.32N | 0550933.02E | 152.0 |
| 52 E | 245154.51N | 0550932.88E | 152.3 |
| 52 W | 245154.67N | 0550932.59E | 152.4 |
| 53 E | 245153.86N | 0550932.45E | 152.8 |
| 53 W | 245154.02N | 0550932.16E | 152.9 |
| 54 E | 245153.21N | 0550932.02E | 153.3 |
| 54 W | 245153.38N | 0550931.73E | 153.4 |

APRON 3

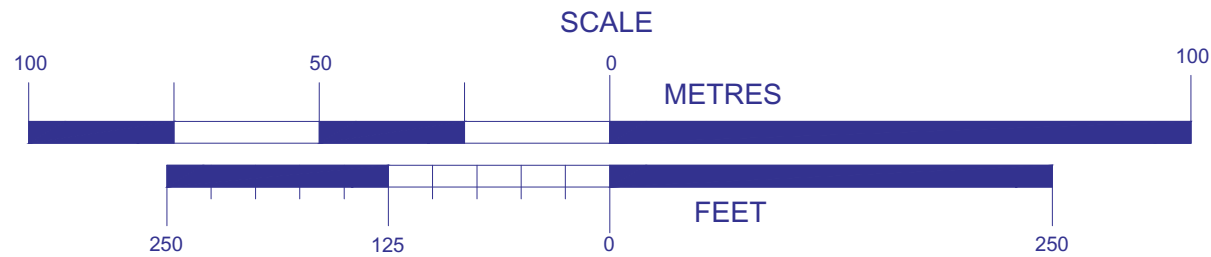
| STAND | LATITUDE | LONGITUDE | ELEV (FT) |
|-------|------------|-------------|-----------|
| 31 E | 245157.23N | 0550929.56E | 151.8 |
| 31 W | 245157.31N | 0550929.42E | 151.9 |
| 32 E | 245156.58N | 0550929.13E | 152.3 |
| 32 W | 245156.66N | 0550928.99E | 152.3 |
| 33 E | 245155.93N | 0550928.70E | 152.7 |
| 33 W | 245156.01N | 0550928.56E | 152.7 |
| 34 E | 245155.29N | 0550928.27E | 153.1 |
| 34 W | 245155.36N | 0550928.13E | 153.1 |

LEGEND

| | |
|----------------------|--|
| IHP | |
| ATC Service Boundary | |

APRON DATA

| DESCRIPTION | SURFACE | STRENGTH (Stands) |
|-------------|------------------|-------------------|
| APRON 1 | Interlock Paving | PCN 6/R/B/Y/T |
| APRON 2 | Interlock Paving | PCN 6/R/B/Y/T |
| APRON 3 | Interlock Paving | PCN 6/R/B/Y/T |
| APRON 4 | Interlock Paving | PCN 6/R/B/Y/T |
| APRON 5 | Interlock Paving | PCN 6/R/B/Y/T |



For ATS Communication facilities refer to OMDW-AD-2-21C

CHANGES: Updated Legend, Apron ELEV.

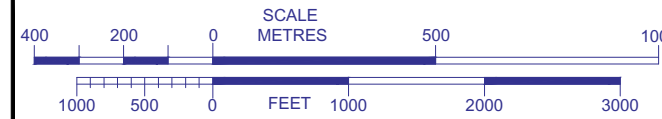
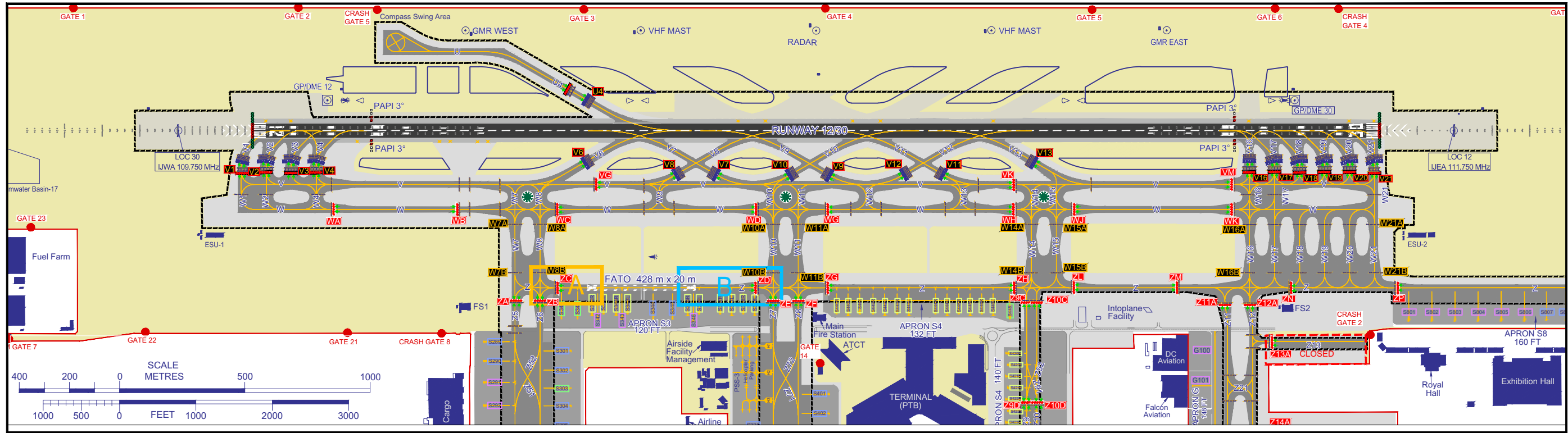
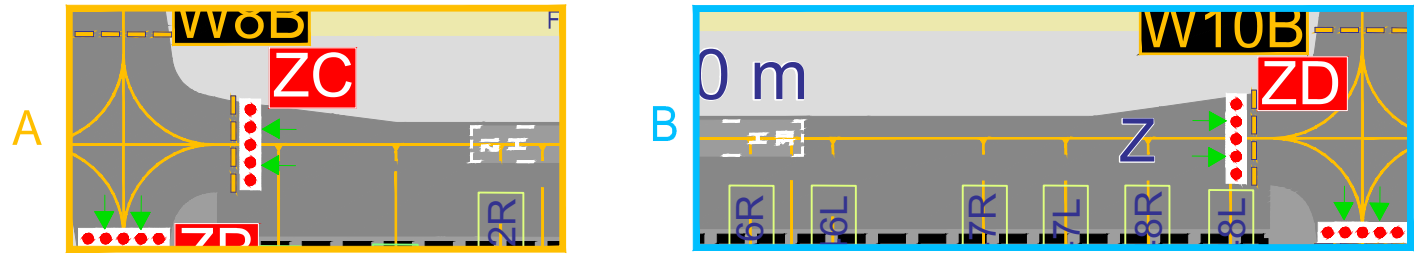
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RUNWAY INCURSION HOT SPOT AREAS

ARP 245506N
0551032E

AD ELEV 171 FT

ELEVATIONS IN FEET AMSL
DIMENSIONS IN METRES



| LEGEND | | |
|--------------------------------|--|-----------------------------|
| RVR | | I/THP Stopbar |
| ILS - GP, LOC | | RWY Hold Stopbar CAT I |
| DME | | RWY Hold Stopbar CAT II/III |
| LGTD WDI | | Airside/Landside Gate |
| Buildings | | Stand CODE C |
| IHP | | Stand CODE D |
| IHP Designator (Full Stopbar) | | Stand CODE E |
| IHP Designator (Yellow Lights) | | Stand CODE F |
| RWY HLDG PSN Designator | | Traffic Direction |
| RWY HLDG PSN Pattern A | | ATC Service Boundary |
| RWY HLDG PSN Pattern B | | AD Boundary |

| NOTE 1 | |
|--------------------|---|
| HOT SPOT LOCATIONS | ADDITIONAL INFORMATION ON HOT SPOT AREA |
| A, B | Operators are to be aware of Final Approach and Takeoff (FATO) H12/H30 used for helicopter operations located between IHP ZD and IHP ZC on TWY Z. ATC clearance is required to enter this area (Between IHP ZD and IHP ZC). |

NOTE 2
Operators are to be vigilant when complying with ATC instructions and to be observant of Holding points markings, Stop Bar lights and Signs. All Runways and the FATO require ATC clearance to enter or cross.

CHANGES: Updated Stand Code G100 and G101, Legend, Editorial.

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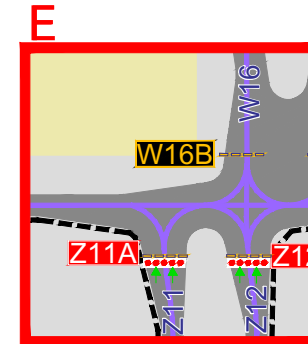
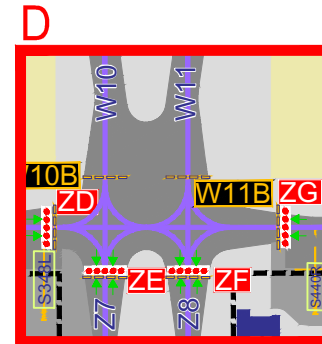
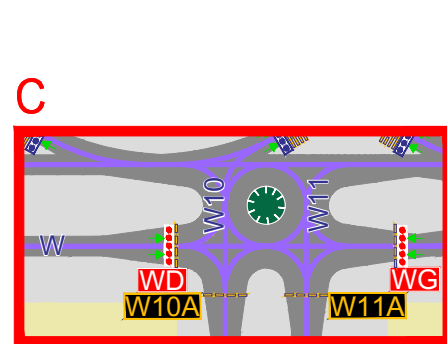
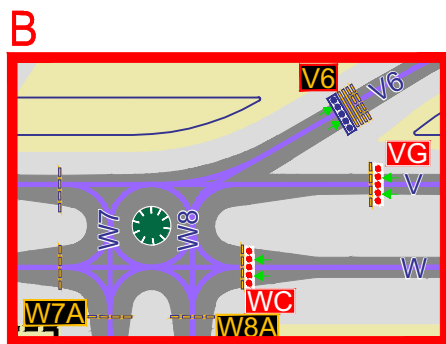
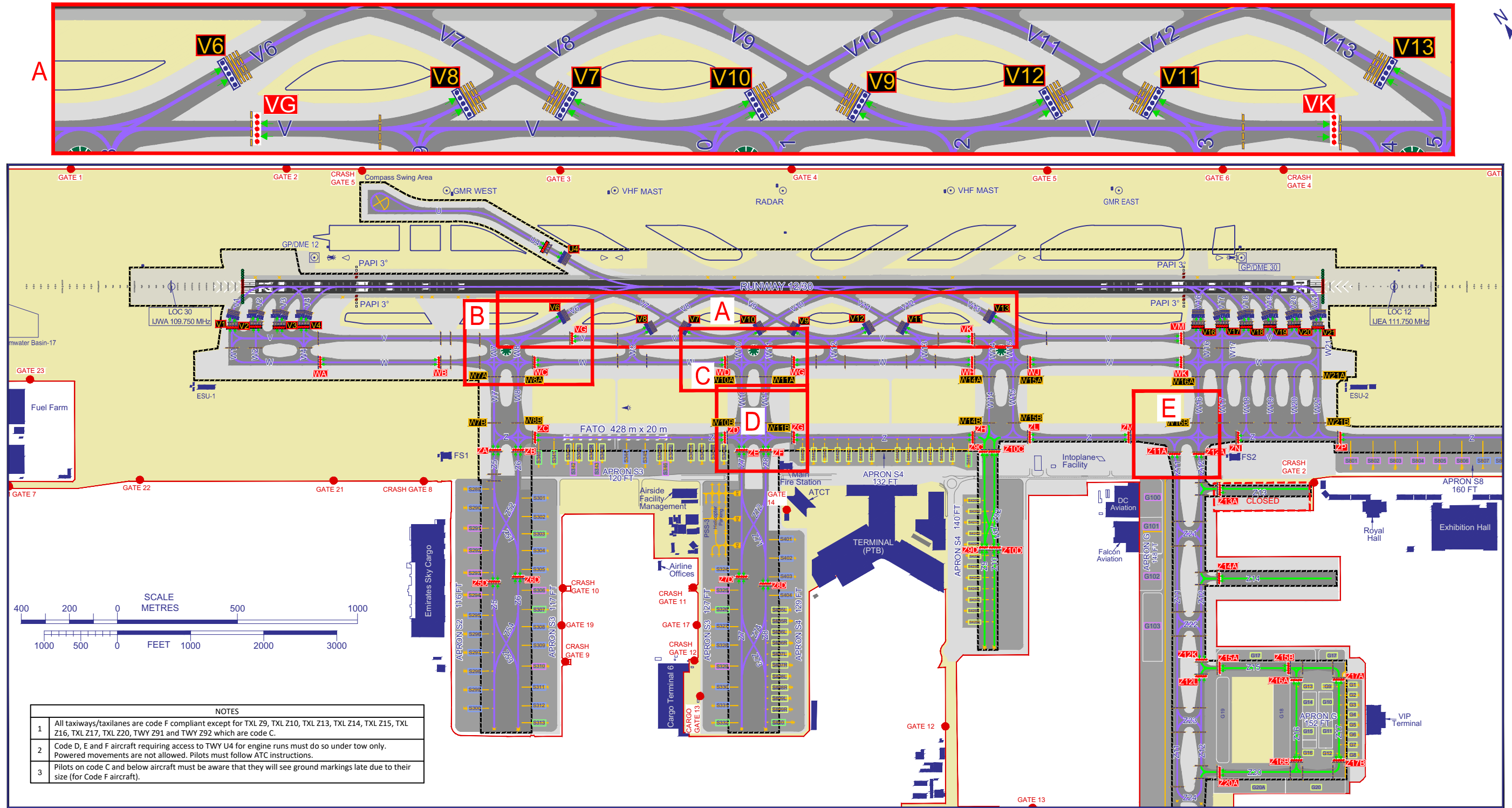
TAXIWAY INCURSION HOT SPOT AREAS

ARP 245506N
0551032E

AD ELEV 171 FT

Note: See details in subsequent text page(s).

ELEVATIONS IN FEET AMSL
DIMENSIONS IN METRES



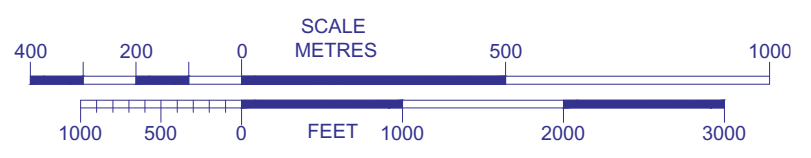
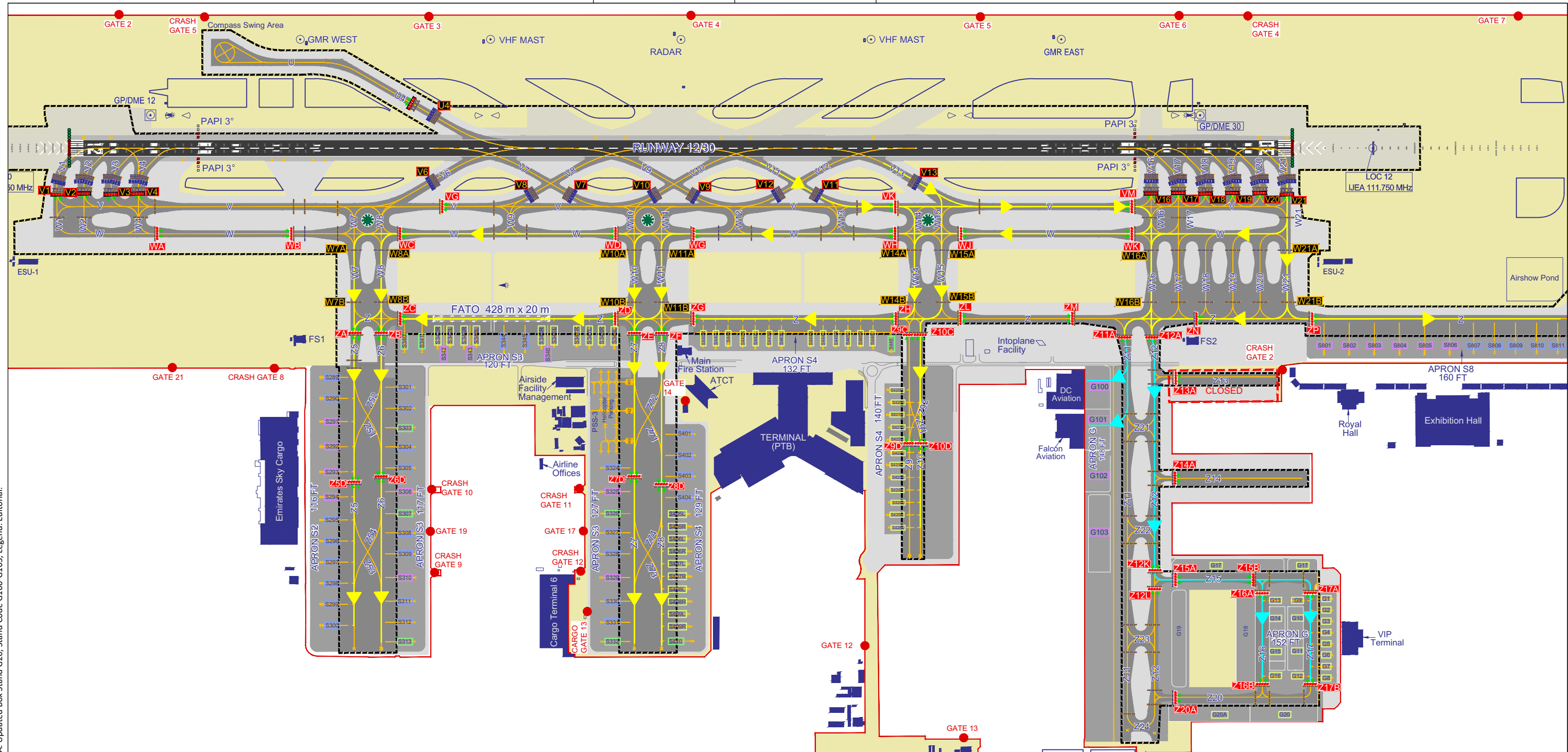
| LEGEND | |
|--------------------------------|-------------------------------|
| RVR | ITHP Stopbar |
| ILS - GP, LOC | RWY Hold Stopbar CAT I |
| DME | RWY Hold Stopbar CAT II/III |
| LGTD WDI | Stand CODE C |
| Buildings | Stand CODE D |
| IHP | Stand CODE E |
| IHP Designator (Full Stopbar) | Stand CODE F |
| IHP Designator (Yellow Lights) | Traffic Direction |
| RWY HLDG PSN Designator | Code C (and below) Operations |
| RWY HLDG PSN Pattern A | Code F (and below) Operations |
| RWY HLDG PSN Pattern B | Hot Spot Areas |
| Airside/Landside Gate | ATC Service Boundary |
| AD Boundary | |

CHANGES: Added Box Stand G20A, Updated Box Stand G20, Stand Code G100-G103, Legend, Editorial.

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| TWY INCURSION HOT SPOT LOCATION | ADDITIONAL INFORMATION ON TAXIWAY INCURSION HOT SPOT AREAS |
|--|--|
| A | The manoeuvring area is a wide space with little environmental contrast therefore taxiway incursions are likely. Pilots must adhere to CL at all times. Turns greater than 90 degrees are NOT permitted. |
| B | Taxiing to TWY W7 from TWY V6 involves a slight right turn onto TWY V before taking a 90 degrees left turn on TWY W7. Operators should be aware that when taxiing on TWY W (westbound), TWY W8 is the first left and TWY W7 is the second left. |
| C | The centre is painted green to aid. Departures regularly miss the turn onto TWY W. This area is high risk for arrivals on all sides of quadrangle. Operators should be aware that when vacating TWY V10, TWY V is to the right and TWY W10 is southbound. Additionally, while taxiing on TWY W10 there is no Taxiway Guidance Signboard available for TWY W (East/West). |
| D | Arrivals will be on TWY W10 for less than 1 min before needing to turn left for TWY Z or TXL Z8 (Left on TWY Z followed by an immediate right turn). |
| E | Arrival aircraft on TWY Z turn too early for TXL Z11 –TXL Z12 is the second taxiway after the hangar. For arrival aircraft on TWY W16, TWY W16 becomes TXL Z12. Departure aircraft on TXL Z12 instructed to taxi onto TWY Z/TWY W17-TWY W21 need to turn as they pass the fire station (on their right). |

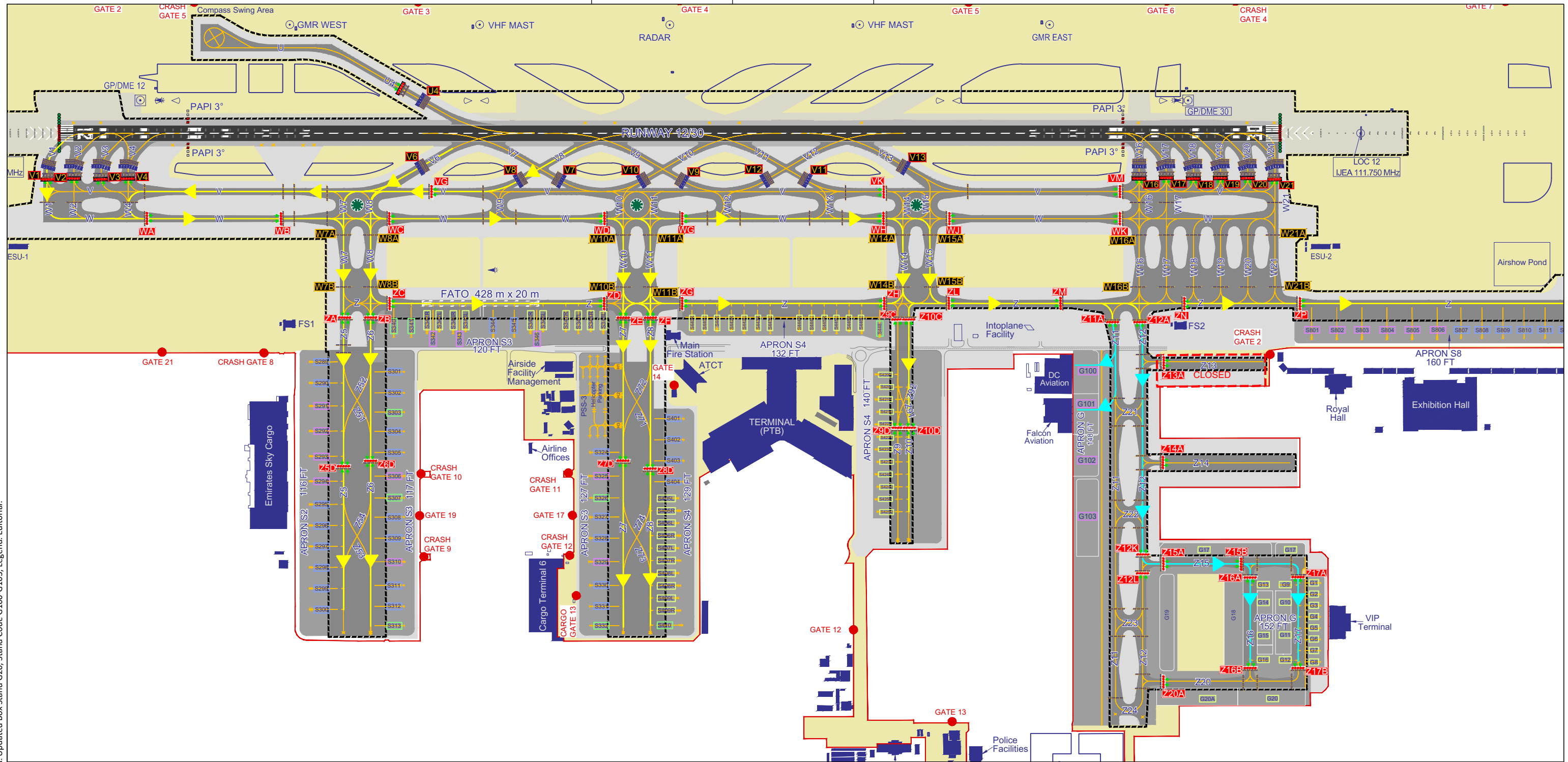
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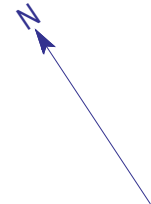
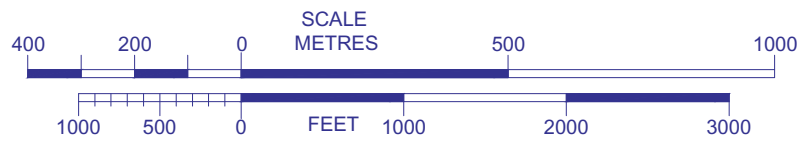
| LEGEND | |
|---|-----------------------------|
| RVR | LGTD WDI |
| ILS - GP, LOC | Buildings |
| DME | ITHP Stopbar |
| IHP | RWY Hold Stopbar CAT I |
| IHP Designator (Full Stopbar) | RWY Hold Stopbar CAT II/III |
| IHP Designator (Yellow Lights) | Airside/Landside Gate |
| RWY HLDG PSN Designator | Stand CODE C |
| RWY HLDG PSN Pattern A | Stand CODE D |
| RWY HLDG PSN Pattern B | Stand CODE E |
| AD Boundary | Stand CODE F |
| CAT II Low Visibility Taxi Routes RWY 12 Arrivals | Traffic Direction |
| CAT II/III Low Visibility Taxi Routes RWY 12 Arrivals | ATC Service Boundary |

CHANGES: Added Box Stand G20A. Updated Box Stand G20. Stand Code G100-G103. Legend. Editorial.

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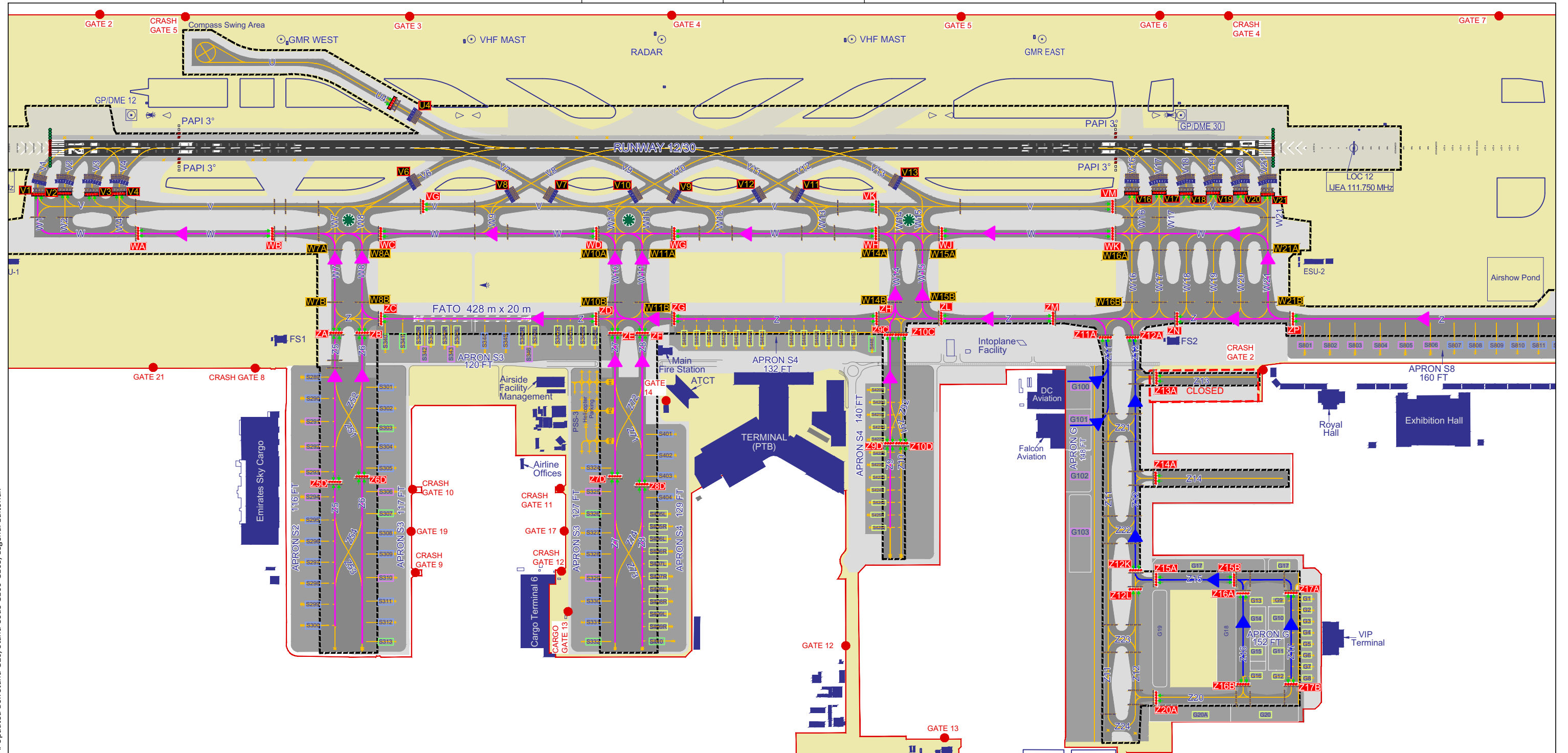


CHANGES: Added Box Stand G20A. Updated Box Stand G20. Stand Code G100-G103. Legend. Editorial.

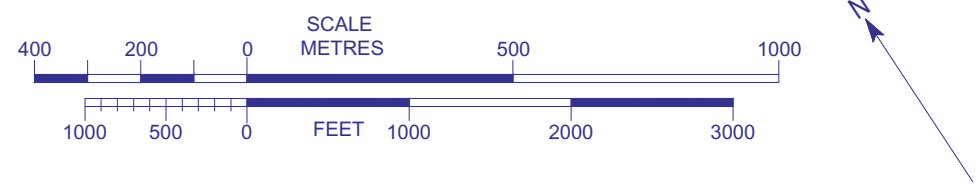


| LEGEND | |
|--|-----------------------------|
| RVR | LGTD WDI |
| ILS - GP, LOC | Buildings |
| DME | ITHP Stopbar |
| IHP | RWY Hold Stopbar CAT I |
| IHP Designator (Full Stopbar) | RWY Hold Stopbar CAT II/III |
| IHP Designator (Yellow Lights) | Airside/Landside Gate |
| RWY HLDG PSN Designator | Stand CODE C |
| RWY HLDG PSN Pattern A | Stand CODE D |
| RWY HLDG PSN Pattern B | Stand CODE E |
| AD Boundary | Stand CODE F |
| CAT II Low Visibility Taxi Routes RWY 30 Arrivals | Traffic Direction |
| CAT III/III Low Visibility Taxi Routes RWY 30 Arrivals | ATC Service Boundary |

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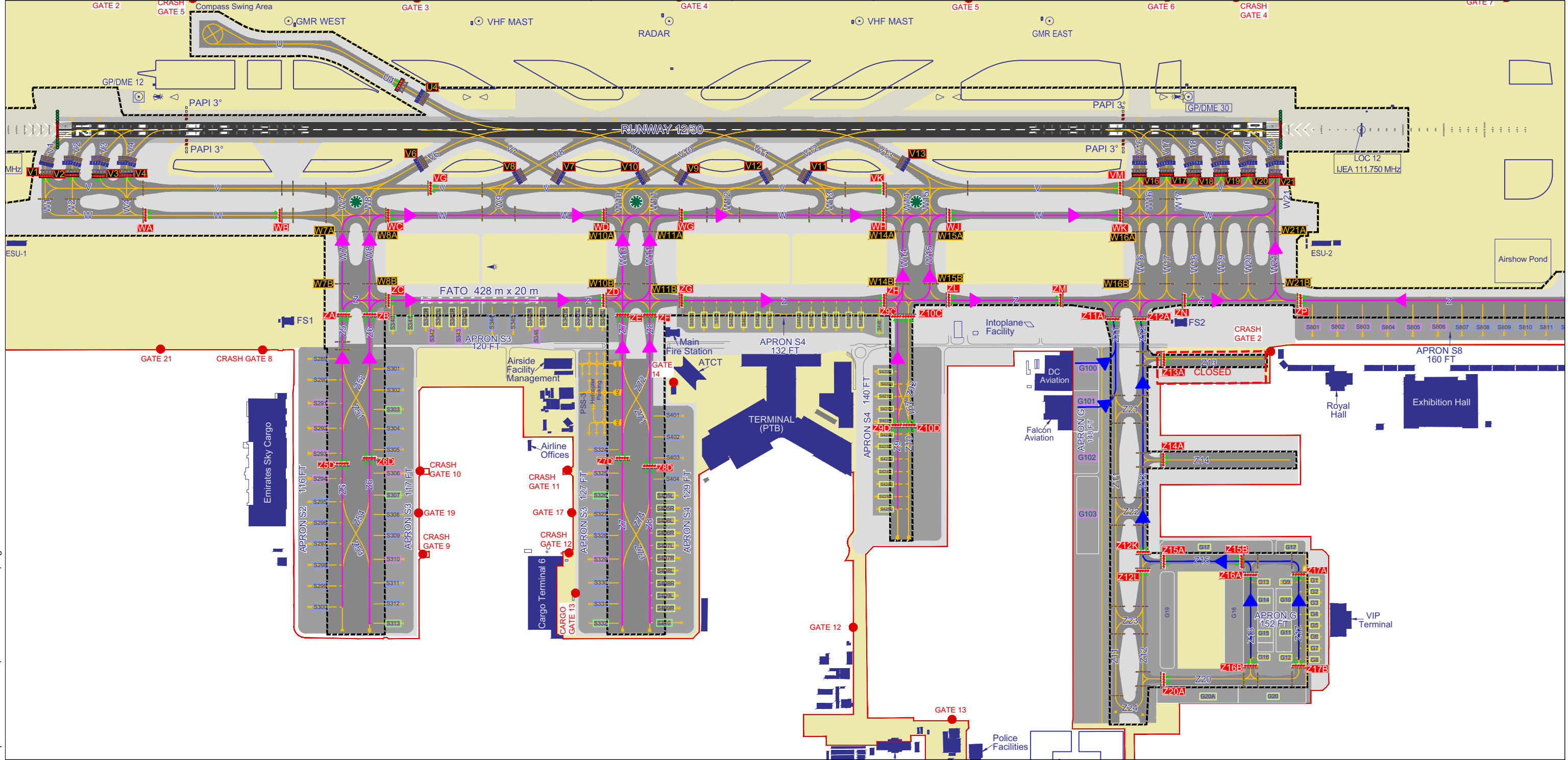
CHANGES: Added Box Stand G20A. Updated Box Stand G20. Stand Code G100-G103. Legend. Editorial.



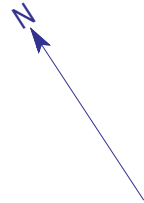
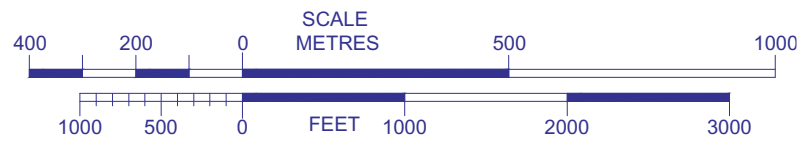
CAUTION
 Rapid Exit Taxiways V6 to V13 have CAT I Stop Bars only.
 These Taxiways will not be available for departure.

| LEGEND | |
|---|-----------------------------|
| RVR | LGTD WDI |
| ILS - GP, LOC | Buildings |
| DME | IHP Stopbar |
| IHP | RWY Hold Stopbar CAT I |
| IHP Designator (Full Stopbar) | RWY Hold Stopbar CAT III/II |
| IHP Designator (Yellow Lights) | Airside/Landside Gate |
| RWY HLDG PSN Designator | Stand CODE C |
| RWY HLDG PSN Pattern A | Stand CODE D |
| RWY HLDG PSN Pattern B | Stand CODE E |
| AD Boundary | Stand CODE F |
| CAT II Low Visibility Taxi Routes RWY 12 Departures | Traffic Direction |
| CAT III/II Low Visibility Taxi Routes RWY 12 Departures | ATC Service Boundary |

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CHANGES: Added Box Stand G20. Updated Box Stand G20. Stand Code G100-G103, Legend. Editorial.



CAUTION
 Rapid Exit Taxiways V6 to V13 have CAT I Stop Bars only.
 These Taxiways will not be available for departure.

| LEGEND | | |
|---|---|-----------------------------|
| RVR | ▶ | LGTD WDI |
| ILS - GP, LOC | ⊙ | Buildings |
| DME | ⊙ | ITHP Stopbar |
| IHP | ⊙ | RWY Hold Stopbar CAT I |
| IHP Designator (Full Stopbar) | ⊙ | RWY Hold Stopbar CAT III/II |
| IHP Designator (Yellow Lights) | ⊙ | Airside/Landside Gate |
| RWY HLDG PSN Designator | ⊙ | Stand CODE C |
| RWY HLDG PSN Pattern A | ⊙ | Stand CODE D |
| RWY HLDG PSN Pattern B | ⊙ | Stand CODE E |
| AD Boundary | ⊙ | Stand CODE F |
| CAT II Low Visibility Taxi Routes RWY 30 Departures | ⊙ | Traffic Direction |
| CAT III/II Low Visibility Taxi Routes RWY 30 Departures | ⊙ | ATC Service Boundary |

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ELEVATIONS IN FEET
ALL OTHER DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC

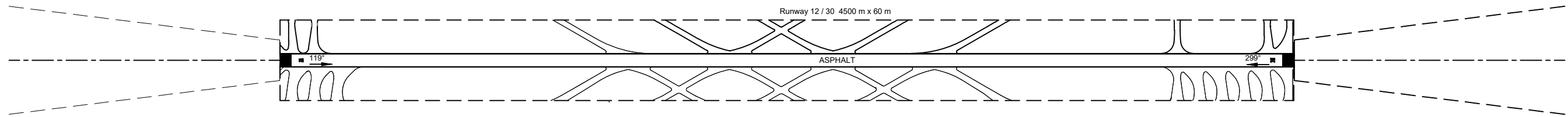
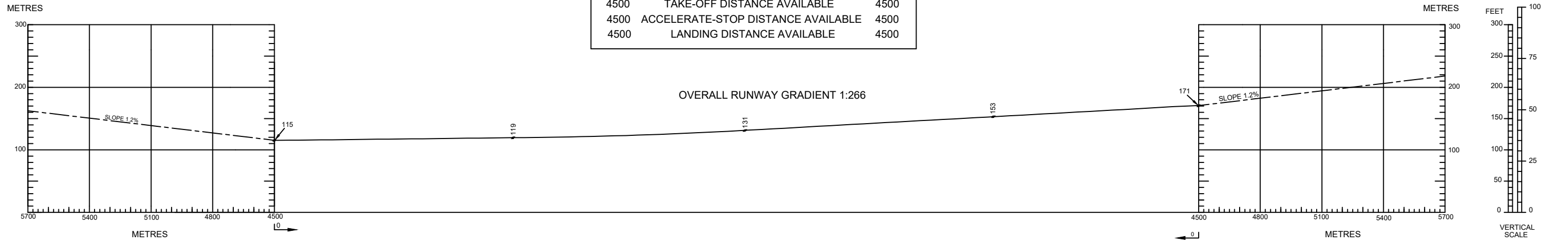
DUBAI / Al Maktoum Intl.
UNITED ARAB EMIRATES
RWY 12/30

AERODROME OBSTACLE CHART - ICAO
TYPE A - OPERATING LIMITATIONS

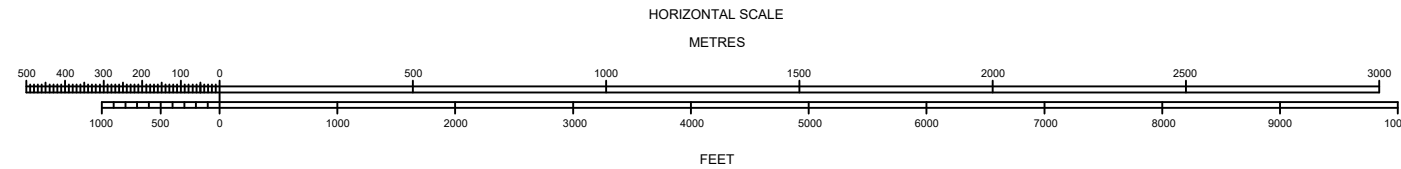
MAGNETIC VARIATION 2° E (2020)

RUNWAY 12/30

| DECLARED DISTANCES | | |
|--------------------|------------------------------------|--------|
| RWY 12 | | RWY 30 |
| 4500 | TAKE-OFF RUN AVAILABLE | 4500 |
| 4500 | TAKE-OFF DISTANCE AVAILABLE | 4500 |
| 4500 | ACCELERATE-STOP DISTANCE AVAILABLE | 4500 |
| 4500 | LANDING DISTANCE AVAILABLE | 4500 |



| LEGEND | | PROFILE |
|--------------------------|----|---------|
| IDENTIFICATION NUMBER | ⑩ | |
| HEIGHT AMSL | 25 | |
| BUILDING | ■ | |
| TREE / BUSH | * | |
| POLE, AERIAL, TOWER, ETC | ● | |
| MOBILE OBSTACLE | ⊕ | |



ORDER OF ACCURACY: Horizontal 3 M; Vertical 1 FT

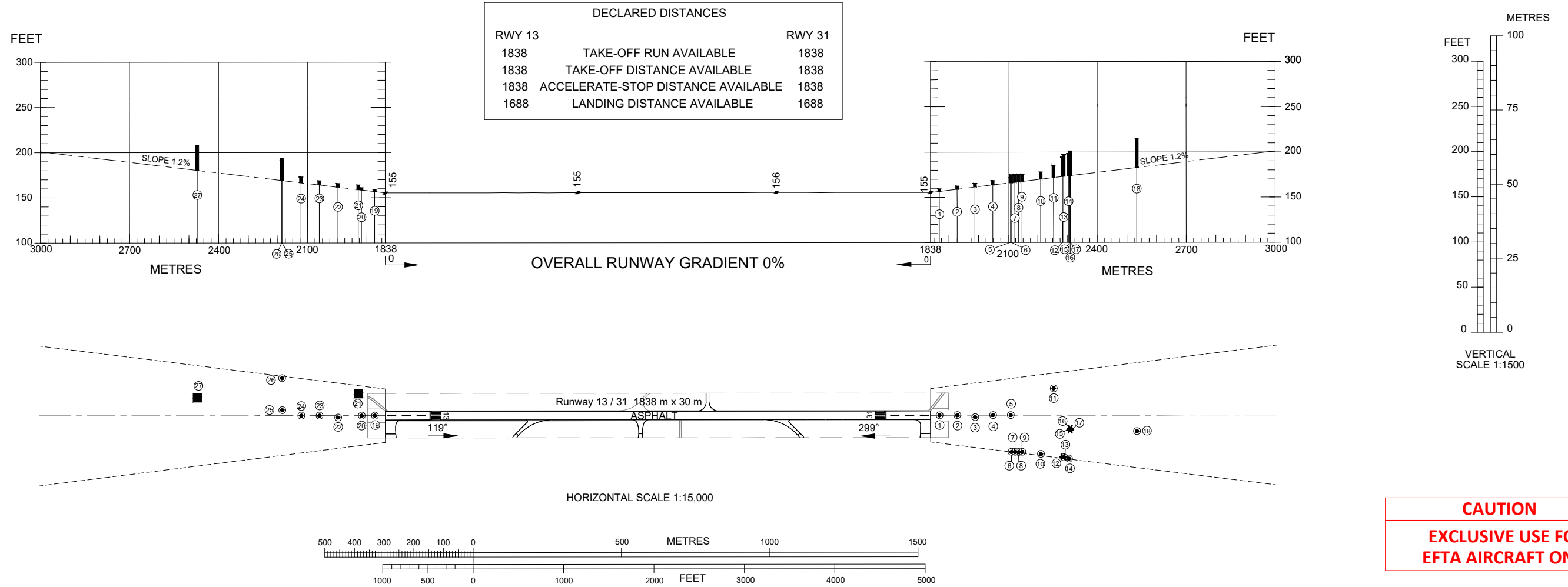
CHANGES: Amended MAG VAR Year. Editorial.

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ELEVATIONS IN FEET AMSL
ALL OTHER DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART - ICAO
TYPE A - OPERATING LIMITATIONS

MAGNETIC VARIATION 2° E (2020)
ORDER OF ACCURACY: Horizontal 3M; Vertical 1FT



CHANGES: Updated OBST. Editorial.

| LEGEND | | PROFILE |
|--------------------------|----|---------|
| IDENTIFICATION NUMBER | ⑩ | |
| HEIGHT AMSL | 25 | |
| BUILDING | ■ | |
| TREE / BUSH | * | |
| POLE, AERIAL, TOWER, ETC | ● | |
| LOCALISER | ⚡ | |

| # | Description | WGS-84 Coordinates | | ELEV AMSL | Survey Ref # |
|----|----------------|--------------------|---------------|-----------|--------------|
| | | Latitude | Longitude | FT | |
| 1 | APPROACH_LIGHT | 245142.9469N | 0551005.7261E | 159.25 | 2888 |
| 2 | APPROACH_LIGHT | 245141.9346N | 0551007.5551E | 162.29 | 2887 |
| 3 | APPROACH_LIGHT | 245140.7324N | 0551009.2512E | 165.42 | 2879 |
| 4 | APPROACH_LIGHT | 245139.9105N | 0551011.2115E | 168.39 | 2875 |
| 5 | APPROACH_LIGHT | 245138.9009N | 0551013.0370E | 171.43 | 2874 |
| 6 | STREETLIGHT | 245135.4140N | 0551010.8300E | 174.81 | 2542 |
| 7 | STREETLIGHT | 245135.2243N | 0551011.1991E | 175.06 | 2541 |
| 8 | STREETLIGHT | 245134.9924N | 0551011.5511E | 175.30 | 2540 |
| 9 | STREETLIGHT | 245134.8082N | 0551011.9270E | 175.31 | 2539 |
| 10 | FENCE | 245133.5521N | 0551013.7163E | 177.88 | 2551 |
| 11 | STREETLIGHT | 245138.9683N | 0551019.1222E | 185.33 | 2526 |
| 12 | TREE | 245132.0232N | 0551015.7691E | 194.30 | 34026 |
| 13 | STREETLIGHT | 245131.9331N | 0551015.8668E | 197.19 | 2005 |
| 14 | STREETLIGHT | 245131.5132N | 0551016.2918E | 198.45 | 2094 |

| # | Description | WGS-84 Coordinates | | ELEV AMSL | Survey Ref # |
|----|---------------------|--------------------|---------------|-----------|--------------|
| | | Latitude | Longitude | FT | |
| 15 | TREE | 245134.1148N | 0551018.1689E | 200.04 | 34009 |
| 16 | TREE | 245134.1311N | 0551018.2378E | 200.28 | 34008 |
| 17 | TREE | 245134.2588N | 0551018.3465E | 201.18 | 34007 |
| 18 | ROADSIGN | 245130.2194N | 0551024.9898E | 215.26 | 31606 |
| 19 | APPROACH_LIGHT | 245215.0316N | 0550907.7520E | 159.25 | 2889 |
| 20 | 31_LOC_NFM | 245215.7764N | 0550906.4004E | 160.96 | 16136 |
| 21 | LIGHTNING_CONDUCTOR | 245218.0396N | 0550907.4578E | 164.24 | 2905 |
| 22 | APPROACH_LIGHT | 245216.9273N | 0550903.8483E | 165.56 | 2894 |
| 23 | APPROACH_LT | 245218.1773N | 0550902.0711E | 168.69 | 2623 |
| 24 | APPROACH_LT | 245219.2114N | 0550900.1934E | 172.92 | 2624 |
| 25 | STREETLIGHT | 245220.8179N | 0550858.5760E | 191.47 | 2656 |
| 26 | STREETLIGHT | 245223.8223N | 0550900.5596E | 194.02 | 2658 |
| 27 | BUILDING | 245226.8090N | 0550850.6638E | 208.45 | 33131 |

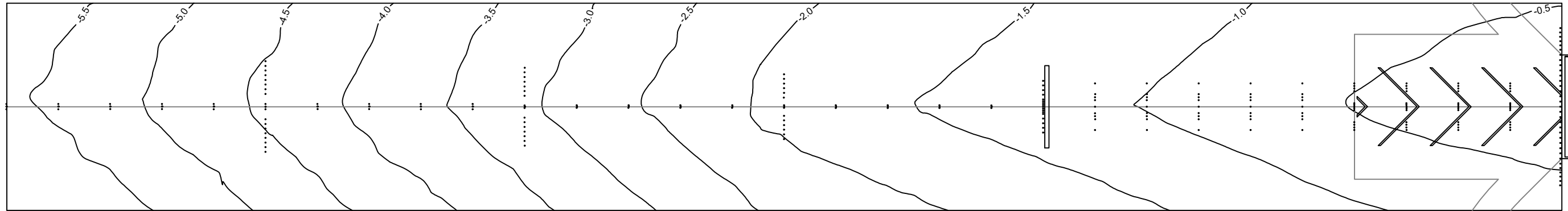
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ELEVATIONS AND HEIGHTS ARE IN METERS/FEET.
DISTANCES IN METERS

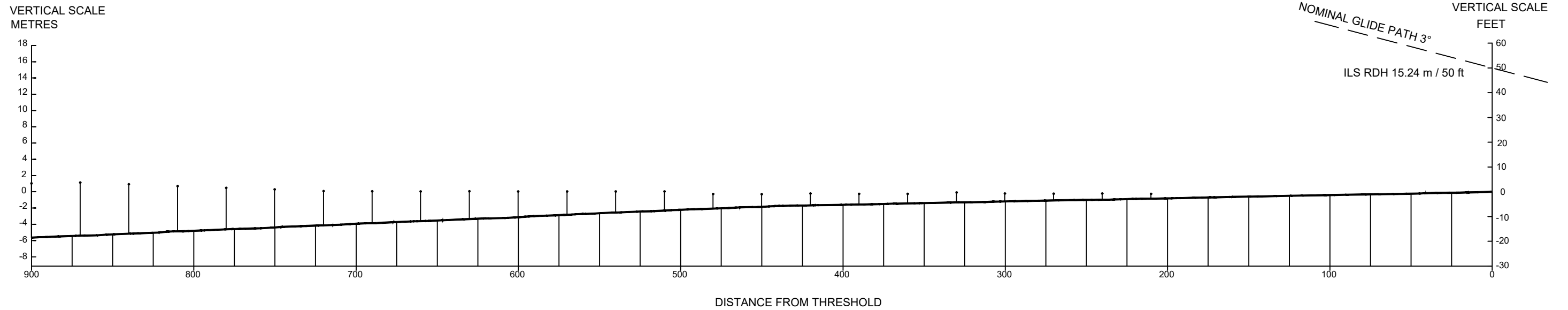
PRECISION APPROACH TERRAIN CHART - ICAO

DUBAI / AL MAKTOUM INTL.
UNITED ARAB EMIRATES

RWY 12



RWY 12 THR ELEV 35.1 m / 115.2 ft AMSL
Maximum heights within first 900 m from RWY 12 THR ELEV



CHANGES: Updated Legend, Editorial.

| LEGEND | |
|--------------------|--|
| CENTRELINE PROFILE | |
| APPROACH LIGHT | |
| CONTOUR | |

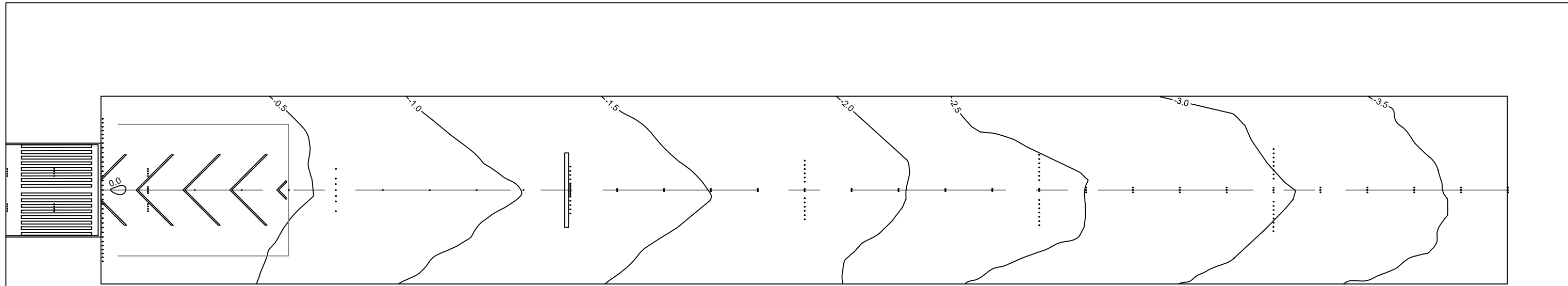
HORIZONTAL SCALE 1:2500
VERTICAL SCALE 1:500
CONTOURS AND HEIGHTS ARE RELATED TO ELEVATION OF RUNWAY THRESHOLD

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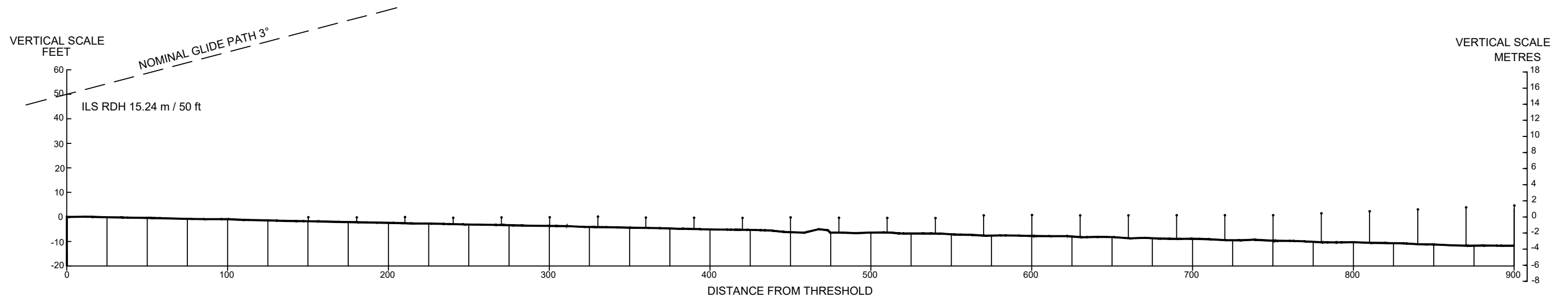
ELEVATIONS AND HEIGHTS ARE IN METERS/FEET.
DISTANCES IN METERS

PRECISION APPROACH TERRAIN CHART - ICAO

DUBAI / AL MAKTOUM INTL.
UNITED ARAB EMIRATES
RWY 30



RWY 30 THR ELEV 52.0 m / 170.7 ft AMSL
Maximum heights within first 900 m from RWY 30 THR ELEV



CHANGES: Updated Legend, Editorial.

| LEGEND | |
|--------------------|--|
| CENTRELINE PROFILE | |
| APPROACH LIGHT | |
| CONTOUR | |

HORIZONTAL SCALE 1:2500
VERTICAL SCALE 1:500
CONTOURS AND HEIGHTS ARE RELATED TO ELEVATION OF RUNWAY THRESHOLD

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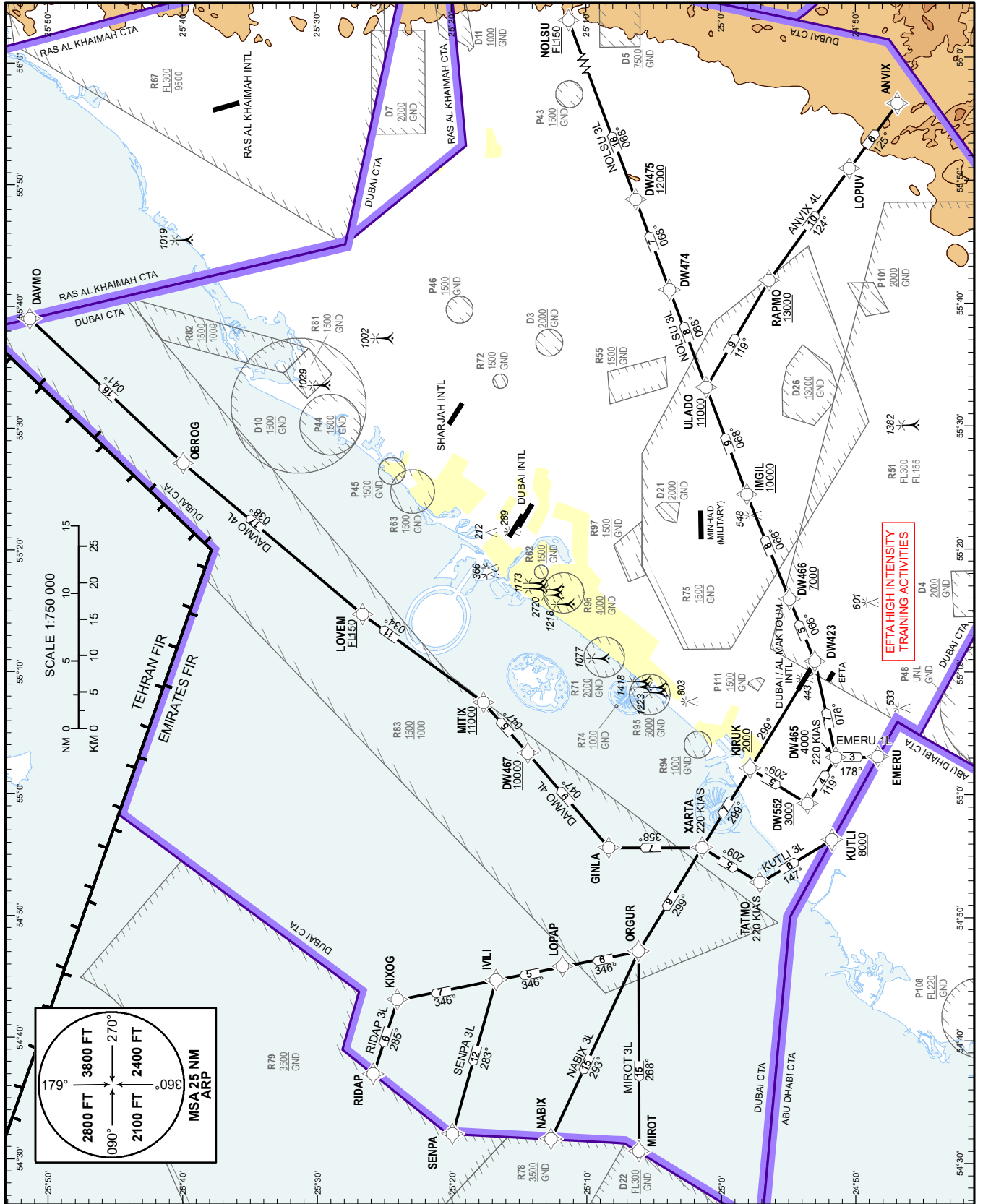
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

AD ELEV 171 FT

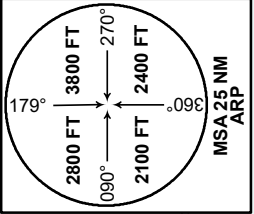
DUBAI / AL MAKTOUM INTL

RNAV 1 SID RWY 30

ANVIX 4L, DAVMO 4L, EMERU 1L, KUTLI 3L, MIROT 3L, NABIX 3L, NOLSU 3L, RIDAP 3L, SENPA 3L



EFTA HIGH INTENSITY TRAINING ACTIVITIES

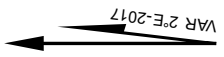


CHANGES: Added P111, R74.

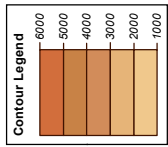
| | | |
|-----------------|---------|-----|
| AL MAKTOUM INTL | 126.475 | DEP |
| AL MAKTOUM RDR | 124.025 | PRI |
| DUBAI DEP N | 126.200 | PRI |
| DUBAI DEP S | 121.025 | PRI |
| AL MAKTOUM TWR | 118.825 | PRI |
| AL MAKTOUM GND | 118.375 | PRI |

FOR ROUTE DESCRIPTION SEE OMD WAD 2.22

TRANSITION ALTITUDE 13000 FT



DIST IN NM BEARINGS ARE MAGNETIC ELEV. ALT. HGT IN FEET SPEEDS ARE MAXIMUM Refer ENR 5.7 for vertical limits details



NOTES Do not climb above ATC cleared level.

| |
|---|
| RESTRICTIONS |
| RNAV 1 (GNSS) REQUIRED |
| MAX 250 KIAS below 10000 FT |
| 25° angle of bank required on all turns |
| MNM (ATC) required climb gradient 5.0% to 8000 FT (300 FT per NM) |
| MNM (ATC) required climb gradient 6.4% to 8000 FT (390 FT per NM) for DAVMO 4L. |

CAUTION: INDEPENDENT HIGH INTENSITY CIRCUIT TRAINING TRAFFIC SOUTH OF THE AIRFIELD

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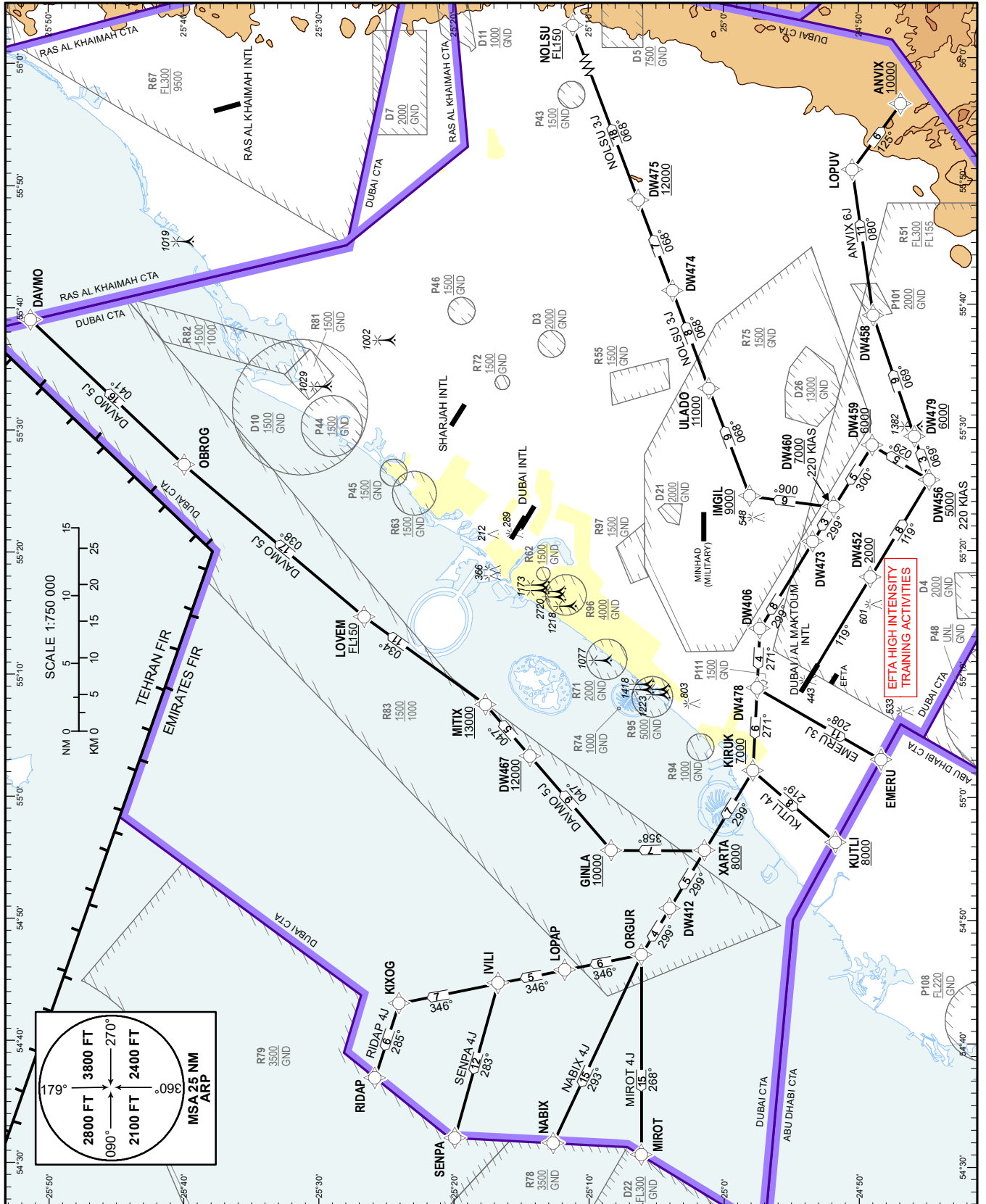
STANDARD DEPARTURE CHART-
INSTRUMENT (SID) - ICAO

AD ELEV 171 FT

DUBAI / AL MAKTOUM INTL

RNAV 1 SID RWY 12

ANVIX 6J, DAVMO 5J, EMERU 3J, KUTLI 4J, MIROT 4J, NABIX 4J, NOLSU 3J, RIDAP 4J, SENPA 4J

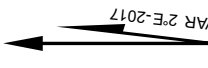


CHANGES: Added P111, R74. Editorial.

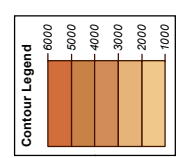
| | | |
|-----------------|---------|-----|
| AL MAKTOUM INTL | 126.475 | DEP |
| AL MAKTOUM RDR | 124.025 | PRI |
| DUBAI DEP N | 126.200 | PRI |
| DUBAI DEP S | 121.025 | PRI |
| AL MAKTOUM TWR | 118.625 | PRI |
| AL MAKTOUM GND | 118.375 | PRI |

FOR ROUTE DESCRIPTION
SEE OMD WAD 2.22

TRANSITION ALTITUDE
13000 FT



DIST IN NM
BEARINGS ARE MAGNETIC
ELEV, ALT, HGT IN FEET
SPEEDS ARE MAXIMUM
Refer ENR 5.1 for vertical limits details

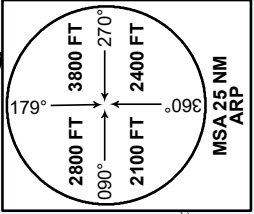
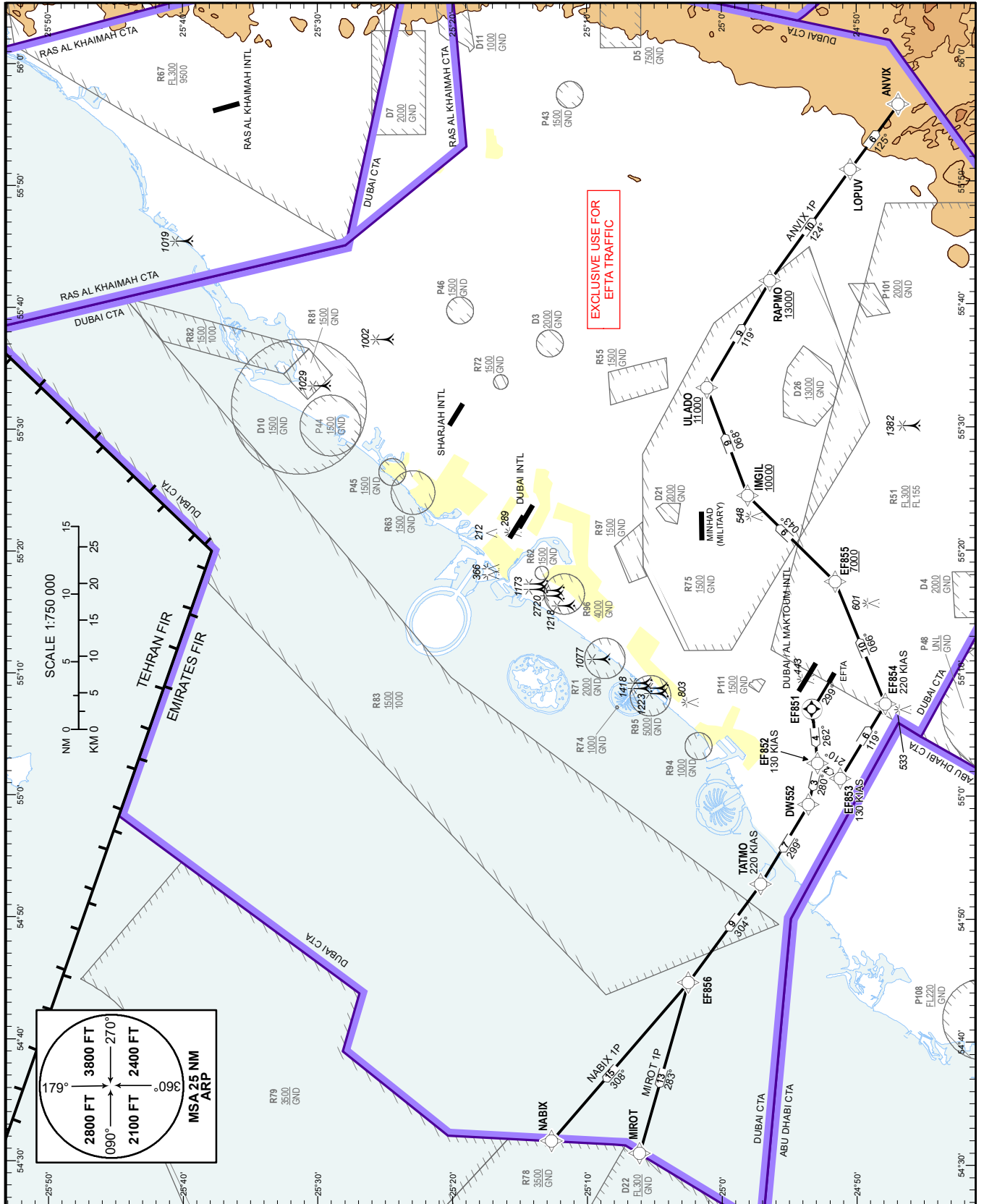


NOTES
Do not climb above ATC
cleared level.

| |
|---|
| RESTRICTIONS |
| RNAV 1 (GNSS) REQUIRED |
| MAX 250 KIAS below 10000 FT |
| 25° angle of bank required on all turns |
| MNM (ATC) required climb gradient 5.0% to 8000 FT (300 FT per NM) |

CAUTION: INDEPENDENT HIGH
INTENSITY CIRCUIT TRAINING
TRAFFIC SOUTH OF THE AIRFIELD

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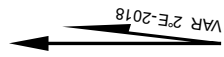


CHANGES: Added P111, R74.

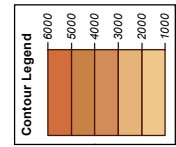
| | | |
|-----------------|---------|-----|
| AL MAKTOUM INTL | 126.475 | DEP |
| AL MAKTOUM RDR | 124.025 | PRI |
| DUBAI DEP N | 126.200 | PRI |
| DUBAI DEP S | 121.025 | PRI |
| ACADEMY TWR | 118.775 | PRI |

FOR ROUTE DESCRIPTION
SEE OMDW AD 2.22

TRANSITION ALTITUDE
13000 FT



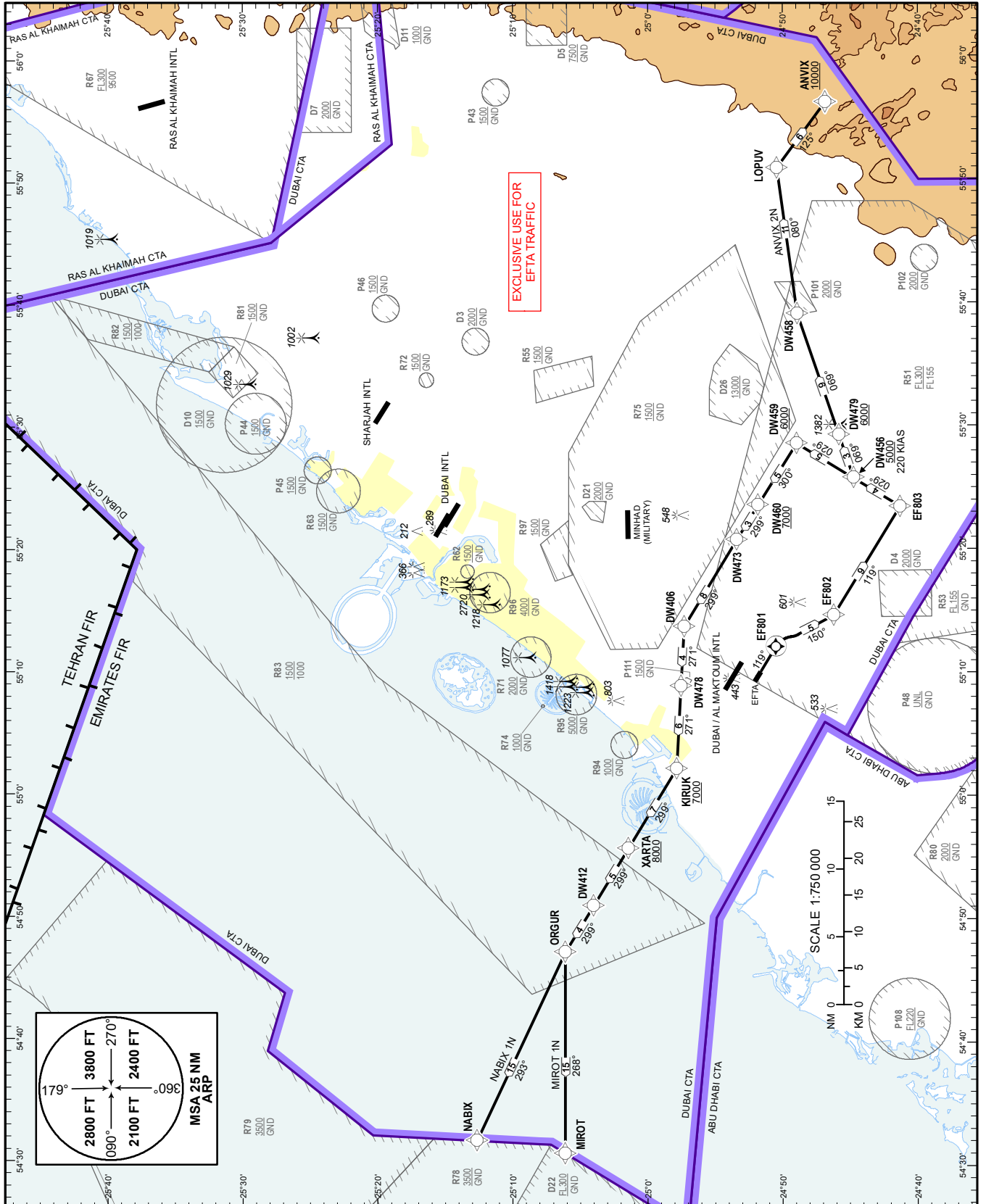
DIST IN NM
BEARINGS ARE MAGNETIC
ELEV, ALT, HGT IN FEET
SPEEDS ARE MAXIMUM
Refer ENR 5.1 for vertical limits details



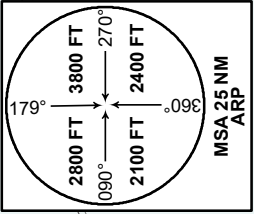
NOTES
Do not climb above ATC cleared level.

| |
|---|
| RESTRICTIONS |
| RNAV 1 (GNSS) REQUIRED |
| MAX 250 KIAS below 10000 FT |
| 25° angle of bank required on all turns |
| MNM (ATC) required climb gradient 5.0% to 8000 FT (300 FT per NM) |
| Initial climb limited to 2000 FT. Further climb when instructed by ATC. |

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EXCLUSIVE USE FOR
EFTA TRAFFIC

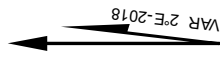


CHANGES: Added P111, R74, Editorial.

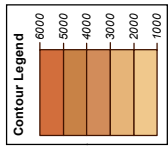
| | | |
|-----------------|---------|-----|
| AL MAKTOUM INTL | 126.475 | DEP |
| AL MAKTOUM RDR | 124.025 | PRI |
| DUBAI DEP N | 126.200 | PRI |
| DUBAI DEP S | 121.025 | PRI |
| ACADEMY TWR | 118.775 | PRI |

FOR ROUTE DESCRIPTION
SEE OMDW AD 2.22

TRANSITION ALTITUDE
13000 FT



DIST IN NM
BEARINGS ARE MAGNETIC
ELEV, ALT, HGT IN FEET
SPEEDS ARE MAXIMUM
Refer ENR 5.1 for vertical limits details



NOTES
Do not climb above ATC
cleared level.

| |
|--|
| RESTRICTIONS |
| RNAV 1 (GNSS) REQUIRED |
| MAX 250 KIAS below 10000 FT |
| 25° angle of bank required on all turns |
| MNM (ATC) required climb gradient 5.0% to 8000 FT (300 FT per NM) |
| Initial climb limited to 2000 FT. Further climb when instructed by ATC. |
| CLOSE-IN OBSTACLES RWY 13 - POLE LIGHT 70m ALT, 439 m from departure end. |

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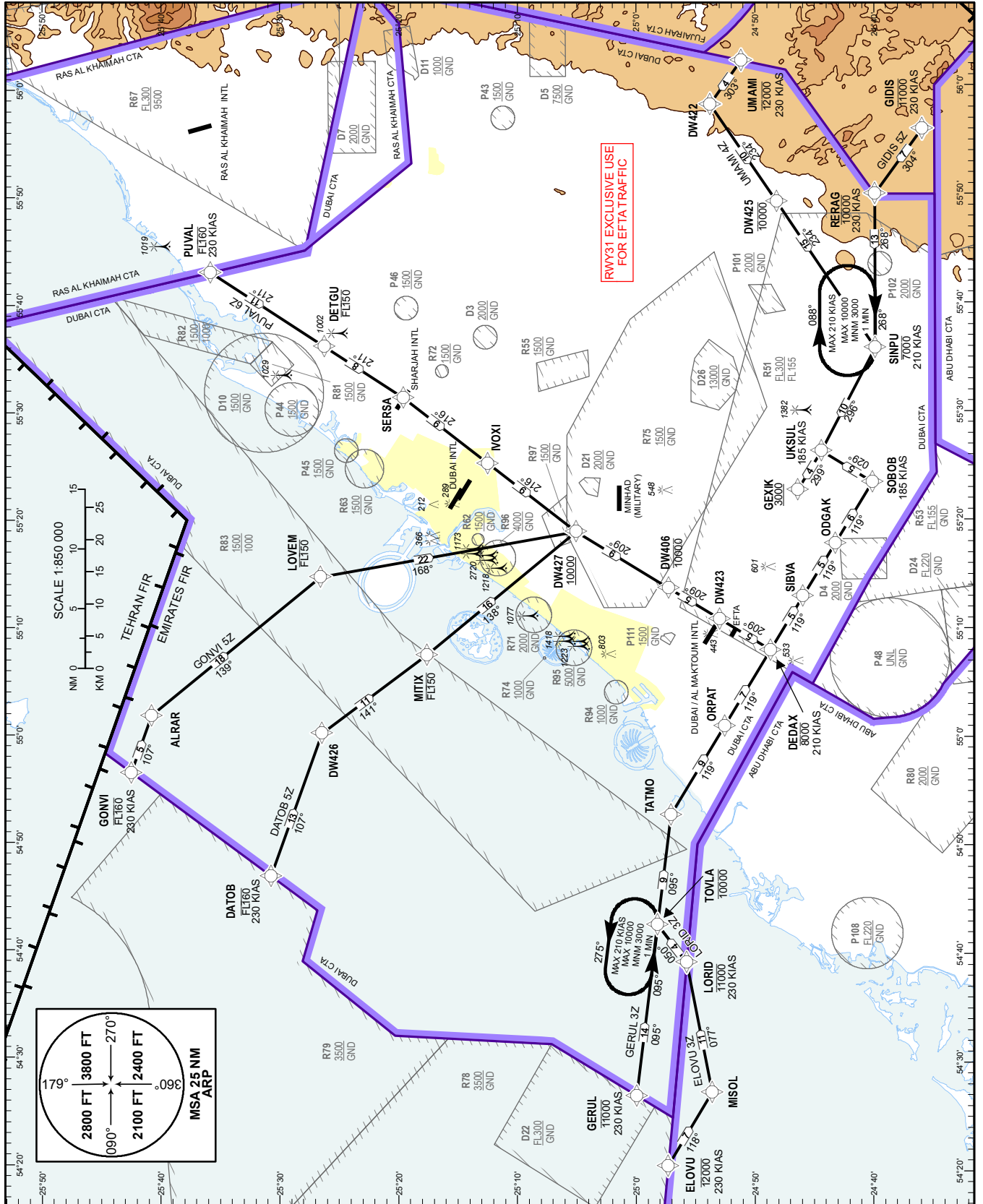
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

AD ELEV 171 FT

DUBAI / AL MAKTOUM INTL

RNAV 1 STAR RWY 30 / 31

DATOB 5Z, ELOVU 3Z, GERUL 3Z, GIDIS 5Z, GONVI 5Z, LORID 3Z, PUVAL 6Z, UMAMI 4Z

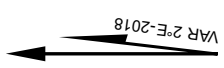


CHANGES: Added P111, R74.

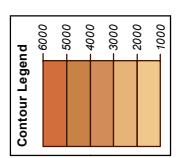
| | | |
|-----------------|---------|-----|
| AL MAKTOUM INTL | 123.175 | ARR |
| AL MAKTOUM RDR | 124.025 | PRI |
| DUBAI DEP N | 126.200 | PRI |
| DUBAI DEP S | 121.025 | PRI |
| DUBAI S RDR | 120.400 | PRI |
| AL MAKTOUM TWR | 118.625 | PRI |
| AL MAKTOUM GND | 118.375 | PRI |
| ACADEMY TWR | 118.775 | PRI |

FOR ROUTE DESCRIPTION
SEE OMD WAD 2.22

TRANSITION ALTITUDE
13000 FT



DIST IN NM
BEARINGS ARE MAGNETIC
ELEV. ALT. HGT IN FEET
SPEEDS INTENDED TO BE "AT"
Refer ENR 5.1 for vertical limits details



RESTRICTIONS
RNAV 1 (GNSS) REQUIRED

NOTES
Do not descend below ATC cleared level.

CAUTION: INDEPENDENT HIGH INTENSITY CIRCUIT TRAINING TRAFFIC SOUTH OF THE AIRFIELD

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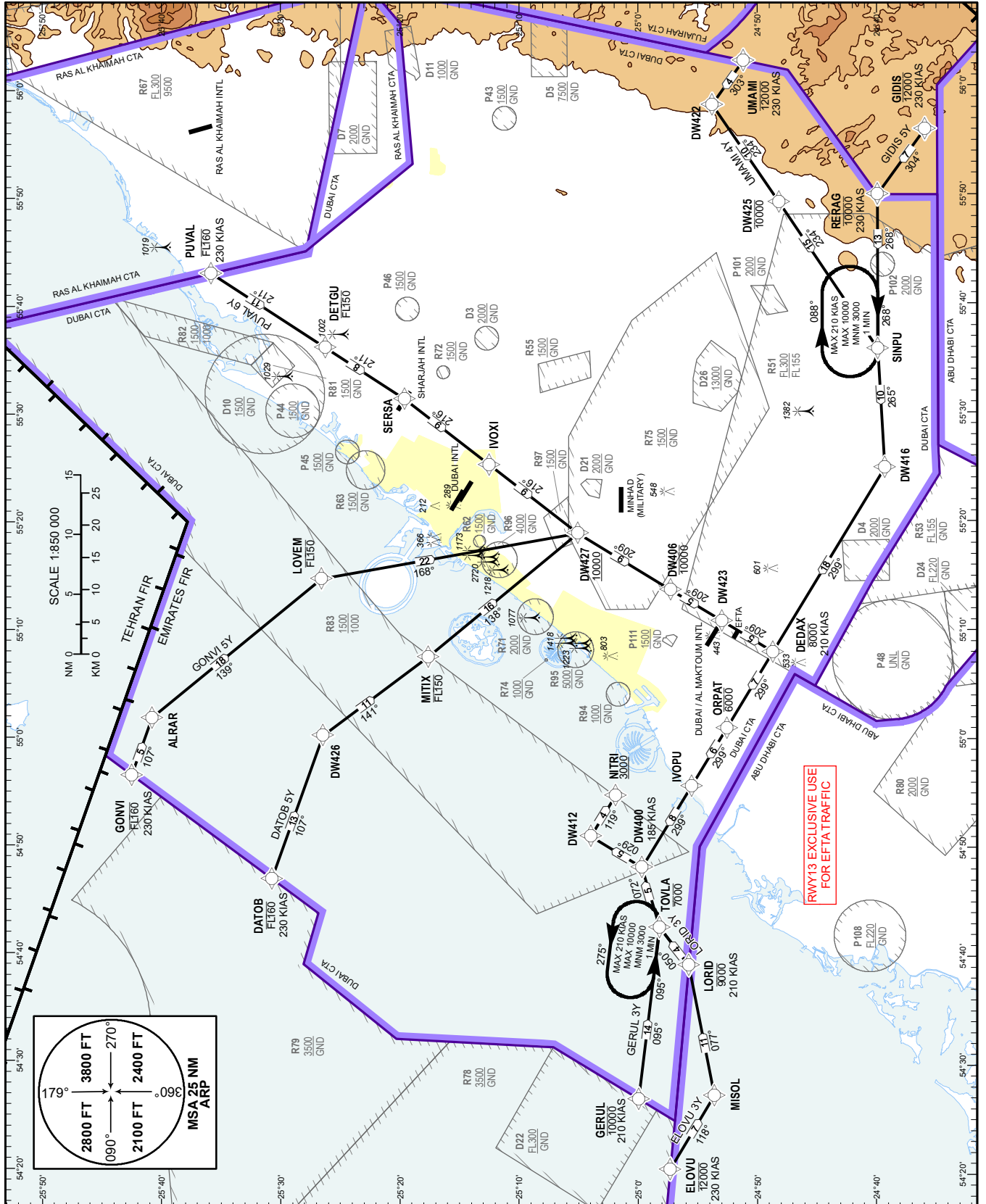
STANDARD ARRIVAL CHART-
INSTRUMENT (STAR) - ICAO

AD ELEV 171 FT

DUBAI / AL MAKTOUM INTL

RNAV 1 STAR RWY 12 / 13

DATOB 5Y, ELOVU 3Y, GERUL 3Y, GIDIS 5Y, GONVI 5Y, LORID 3Y, PUVAL 6Y, UMAMI 4Y

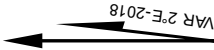


CHANGES: Added P111, R74, Editorial.

| | | |
|-----------------|---------|-----|
| AL MAKTOUM INTL | 123.175 | ARR |
| AL MAKTOUM RDR | 124.025 | PRI |
| DUBAI DEP N | 126.200 | PRI |
| DUBAI DEP S | 121.025 | PRI |
| DUBAI S RDR | 120.400 | PRI |
| AL MAKTOUM TWR | 118.625 | PRI |
| AL MAKTOUM GND | 118.375 | PRI |
| ACADEMY TWR | 118.775 | PRI |

FOR ROUTE DESCRIPTION
SEE OMDW AD 2.22

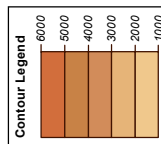
TRANSITION ALTITUDE
13000 FT



DIST IN NM

BEARINGS ARE MAGNETIC
ELEV. ALT. HGT IN FEET
SPEEDS INTENDED TO BE "AT"

Refer ENR 5.1 for vertical limits details



RESTRICTIONS
RNAV 1 (GNSS) REQUIRED

NOTES

Do not descend below ATC cleared level.

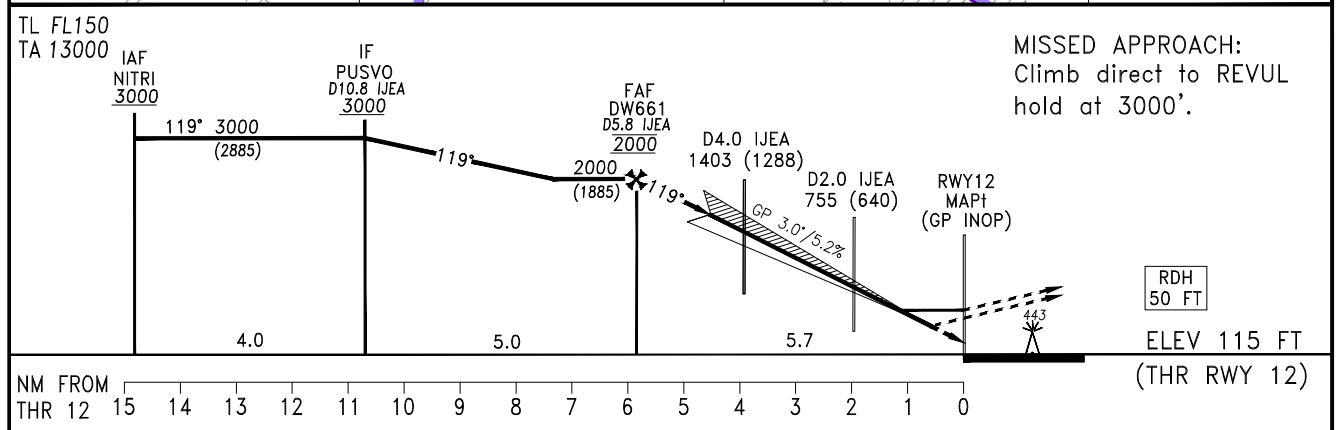
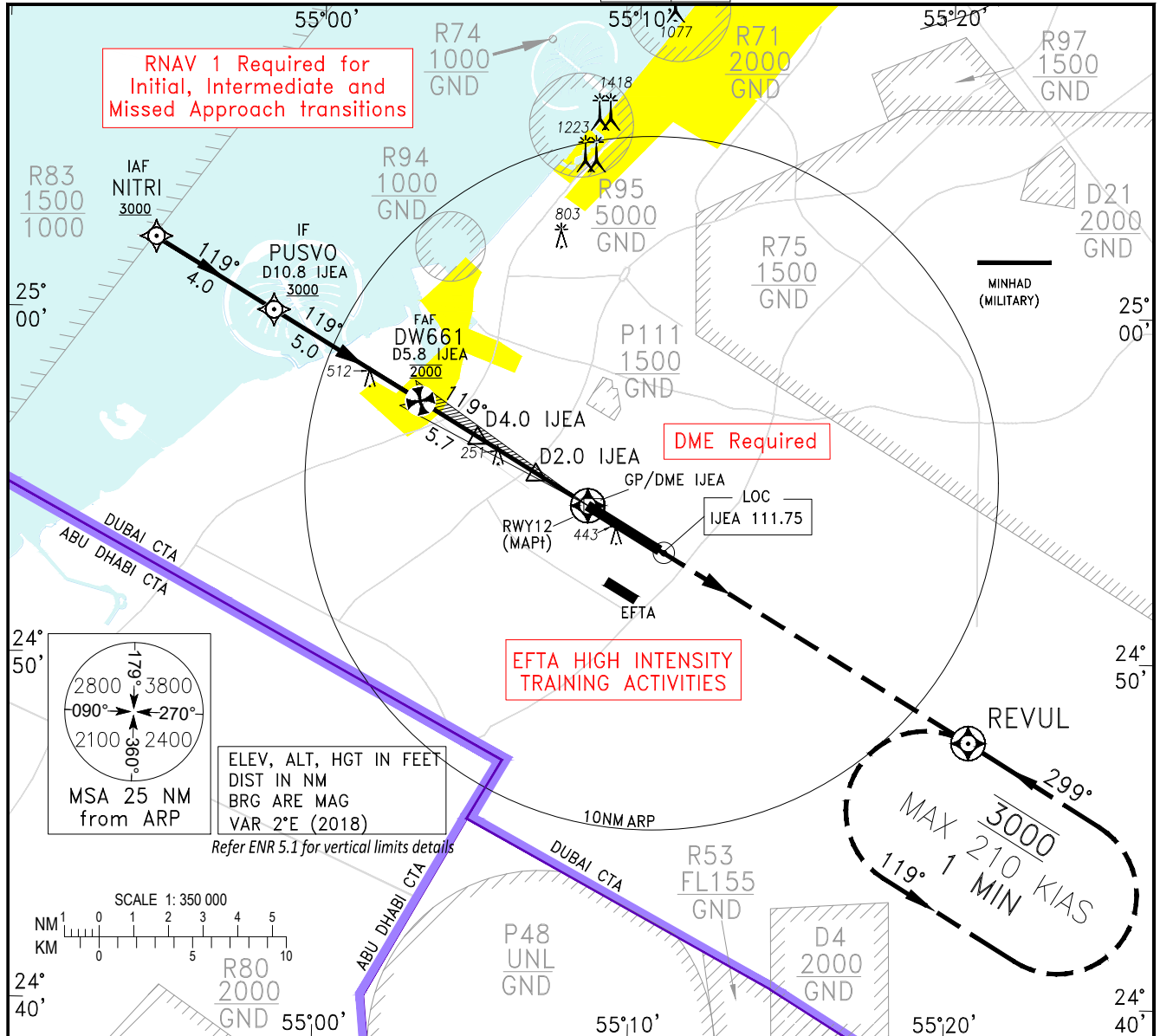
CAUTION: INDEPENDENT HIGH INTENSITY CIRCUIT TRAINING TRAFFIC SOUTH OF THE AIRFIELD

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INSTRUMENT AD ELEV 171 FT
 APPROACH HEIGHTS RELATED TO
 CHART-ICAO THR RWY 12 ELEV 115 FT

| | |
|------------|---------|
| ATIS (ARR) | 123.175 |
| AMR (N) | 124.025 |
| DEP (N) | 126.200 |
| DEP (S) | 121.025 |
| DSR | 120.400 |
| TWR | 118.625 |
| GND | 118.375 |

DUBAI/Al Maktoum Intl.
 ILS RWY 12
 CAT A - D_L



| OCA/H | | A | B | C | D | D _L |
|----------------------|-----------------------------------|-----------|-----------|-----------|-----------|----------------|
| Straight-in Approach | ILS CAT I ^① MACG 3.0% | 302 (187) | 315 (200) | 323 (208) | 333 (218) | 333 (218) |
| | ILS CAT II ^② MACG 3.0% | 176 (61) | 193 (78) | 205 (90) | 220 (105) | 220 (105) |
| | GP INOP MACG 3.0% | 520 (405) | | | | |
| Circling | | N/A | | | | |

| | | | | | | | | |
|-----------------------------------|--------------------|--------|------|------|------|------|-----|-----|
| ILS CAT III available MNM RVR 50M | Distance from IJEA | NM | 5.8 | 4.8 | 3.8 | 2.8 | 1.8 | 0.8 |
| ①MNM DH CAT I A - 200FT | Altitude | FT | 1940 | 1630 | 1310 | 1000 | 680 | 370 |
| ②MNM DH CAT II A, B, C - 100FT | Ground Speed | KT | 80 | 100 | 120 | 140 | 160 | 180 |
| | Rate of Descent | FT/MIN | 430 | 540 | 650 | 760 | 870 | 980 |

CHANGES: Added P111, R74. Editorial.

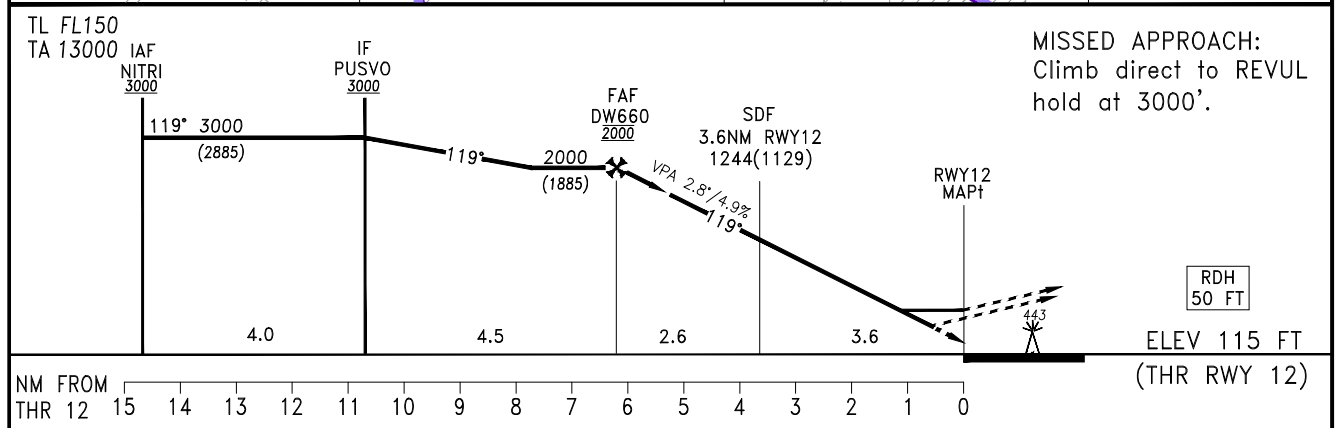
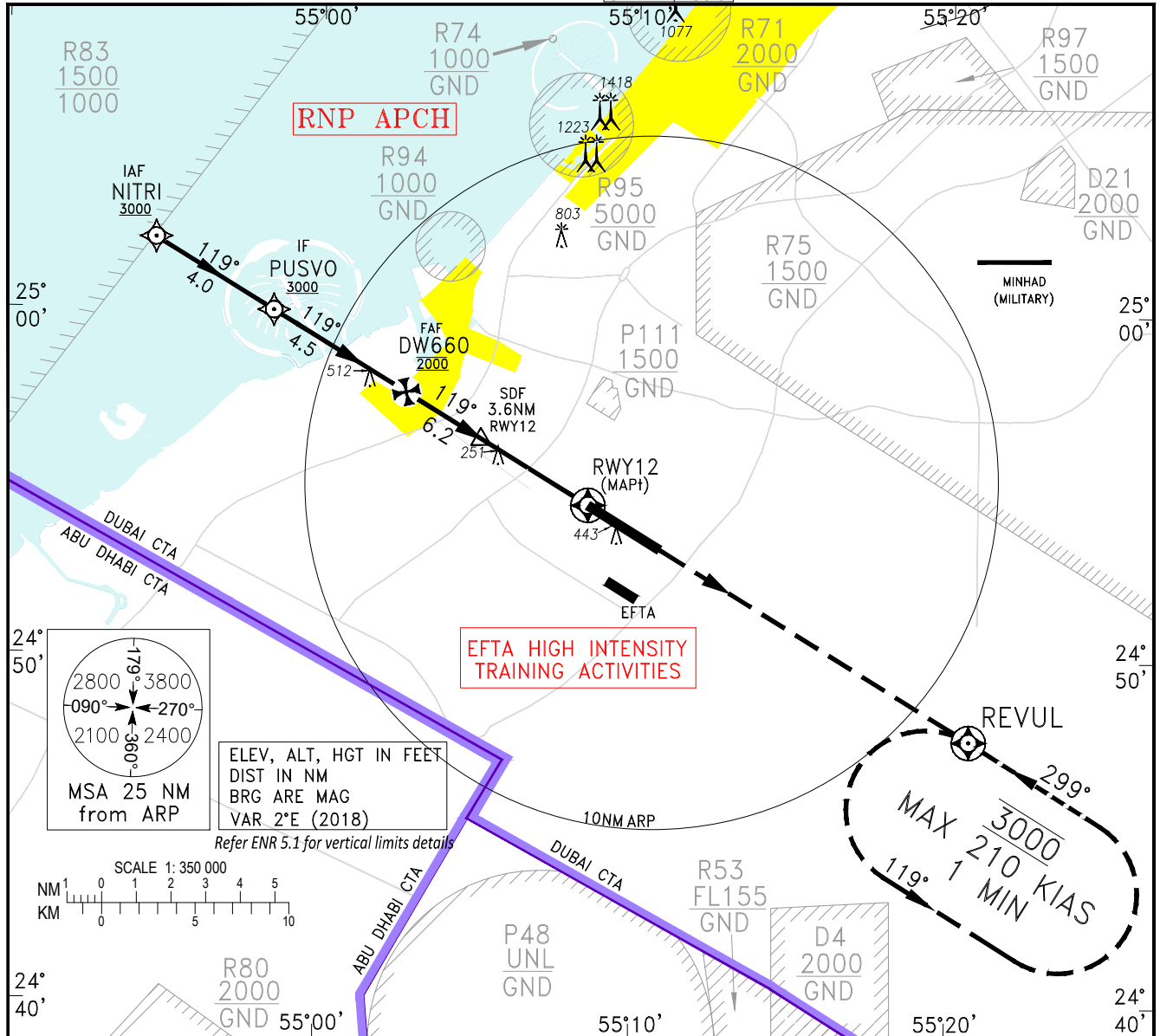
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INSTRUMENT APPROACH CHART-ICAO

AD ELEV 171 FT
 HEIGHTS RELATED TO THR RWY 12 ELEV 115 FT
 MNM TEMP FOR VNAV 5°C

| | |
|------------|---------|
| ATIS (ARR) | 123.175 |
| AMR | 124.025 |
| DEP (N) | 126.200 |
| DEP (S) | 121.025 |
| DSR | 120.400 |
| TWR | 118.625 |
| GND | 118.375 |

DUBAI/Al Maktoum Intl.
 RNP RWY 12
 CAT A - D_L



| OCA/H | | A | B | C | D | D _L | | | |
|----------------------|-------------------------|---------------------|-----------|-----------|-----------|----------------|------|-----|-----|
| Straight-in Approach | LNAV/VNAV MACG 3.00% | 466 (351) | 475 (360) | 480 (365) | 487 (372) | 487 (372) | | | |
| | LNAV MACG 3.00% | 550 (435) | | | | | | | |
| Circling | | N/A | | | | | | | |
| | | Distance from RWY12 | NM | 6.1 | 5.1 | 4.1 | 3.1 | 2.1 | 1.1 |
| | | Altitude | FT | 1970 | 1680 | 1380 | 1080 | 780 | 490 |
| | | Ground Speed | KT | 80 | 100 | 120 | 140 | 160 | 180 |
| | | Rate of Descent | FT/MIN | 400 | 500 | 610 | 710 | 810 | 910 |

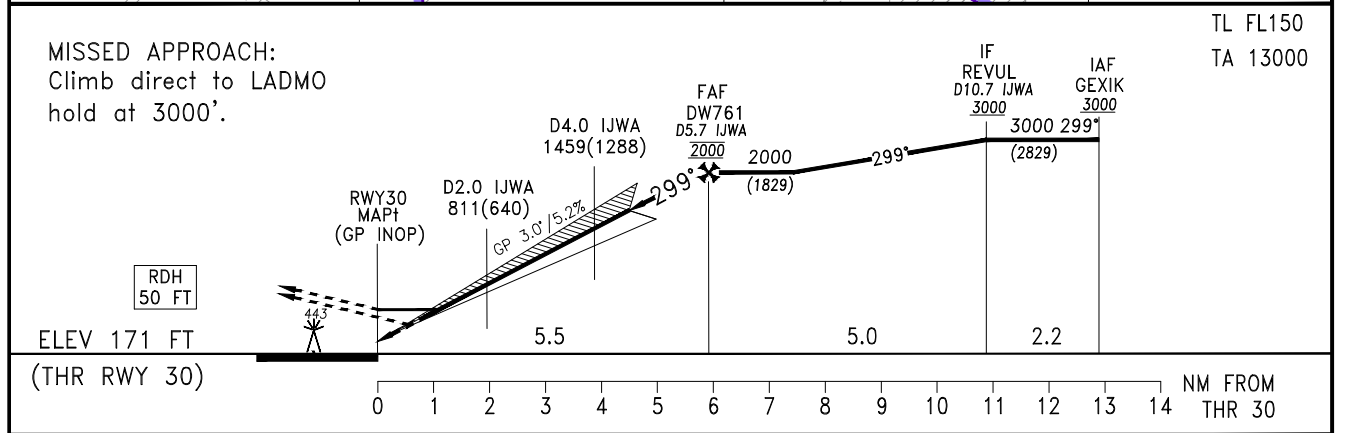
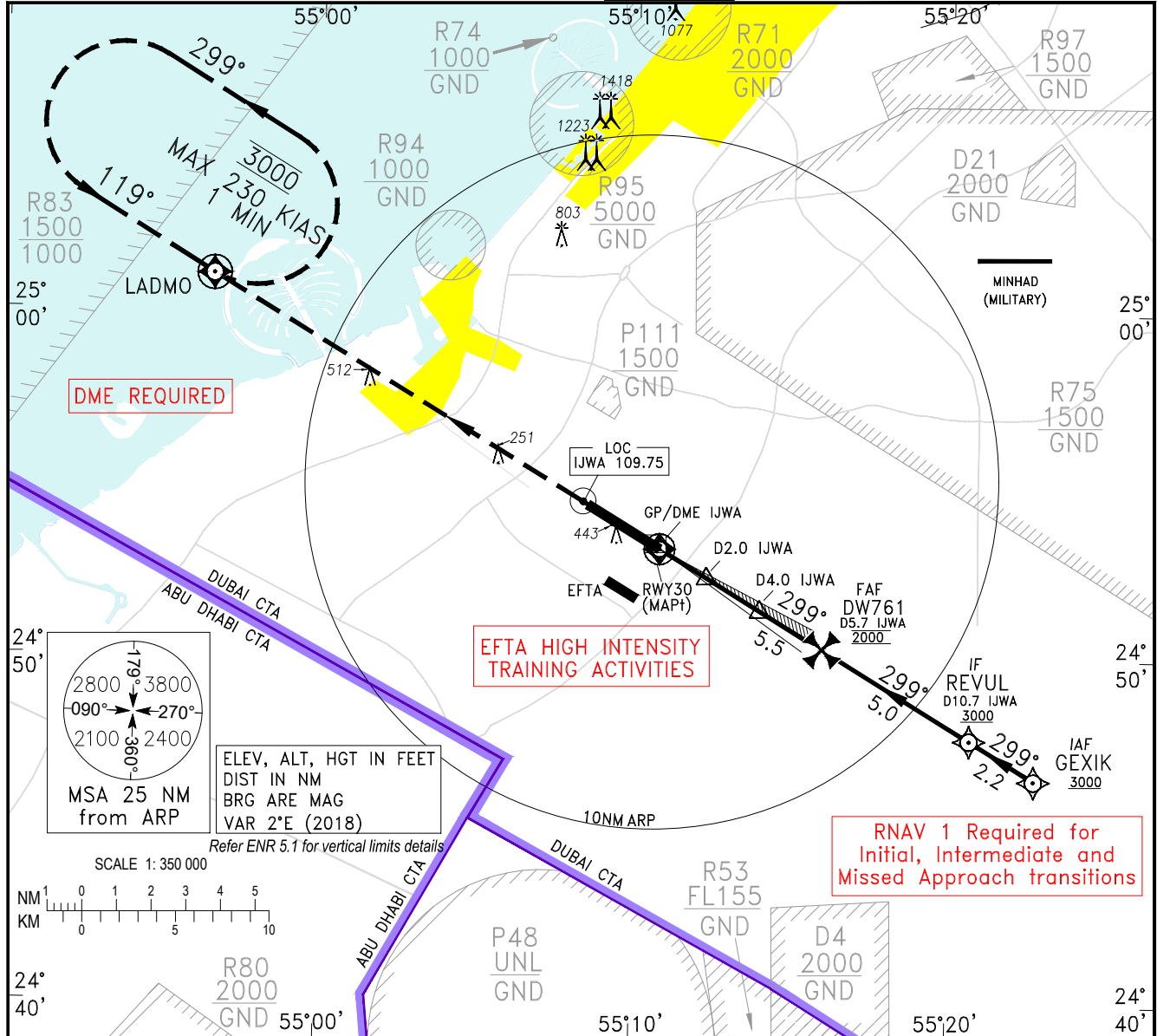
CHANGES: Added P111, R74. Editorial.

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INSTRUMENT AD ELEV 171 FT
 APPROACH HEIGHTS RELATED TO
 CHART-ICAO THR RWY 30 ELEV 171 FT

| | |
|------------|---------|
| ATIS (ARR) | 123.175 |
| AMR | 124.025 |
| DEP (N) | 126.200 |
| DEP (S) | 121.025 |
| DSR | 120.400 |
| TWR | 118.625 |
| GND | 118.375 |

DUBAI/Al Maktoum Intl.
 ILS RWY 30
 CAT A - D_L



| OCA/H | | A | B | C | D | D _L | | | | | | | | |
|---|-----------------------------------|-----------|-----------|-----------|-----------|----------------|--------------------|--------|------|------|------|------|-----|-----|
| Straight-in Approach | ILS CAT I ^① MACG 3.0% | 326 (155) | 339 (168) | 347 (176) | 357 (186) | 357 (186) | | | | | | | | |
| | ILS CAT II ^② MACG 3.0% | 238 (67) | 256 (85) | 267 (96) | 282 (111) | 282 (111) | | | | | | | | |
| | GP INOP MACG 3.0% | 480 (309) | | | | | | | | | | | | |
| Circling | | N/A | | | | | | | | | | | | |
| ILS CAT III available MNM RVR 50M | | | | | | | Distance from IJWA | NM | 5.7 | 4.7 | 3.7 | 2.7 | 1.7 | 0.7 |
| ① MNM DH CAT I A,B,C,D,D _L - 200FT | | | | | | | Altitude | FT | 1990 | 1670 | 1350 | 1030 | 710 | 400 |
| ② MNM DH CAT II A,B,C - 100FT | | | | | | | Ground Speed | KT | 80 | 100 | 120 | 140 | 160 | 180 |
| | | | | | | | Rate of Descent | FT/MIN | 440 | 550 | 660 | 770 | 880 | 990 |

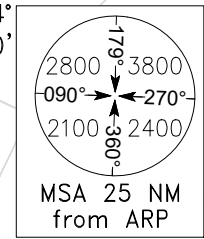
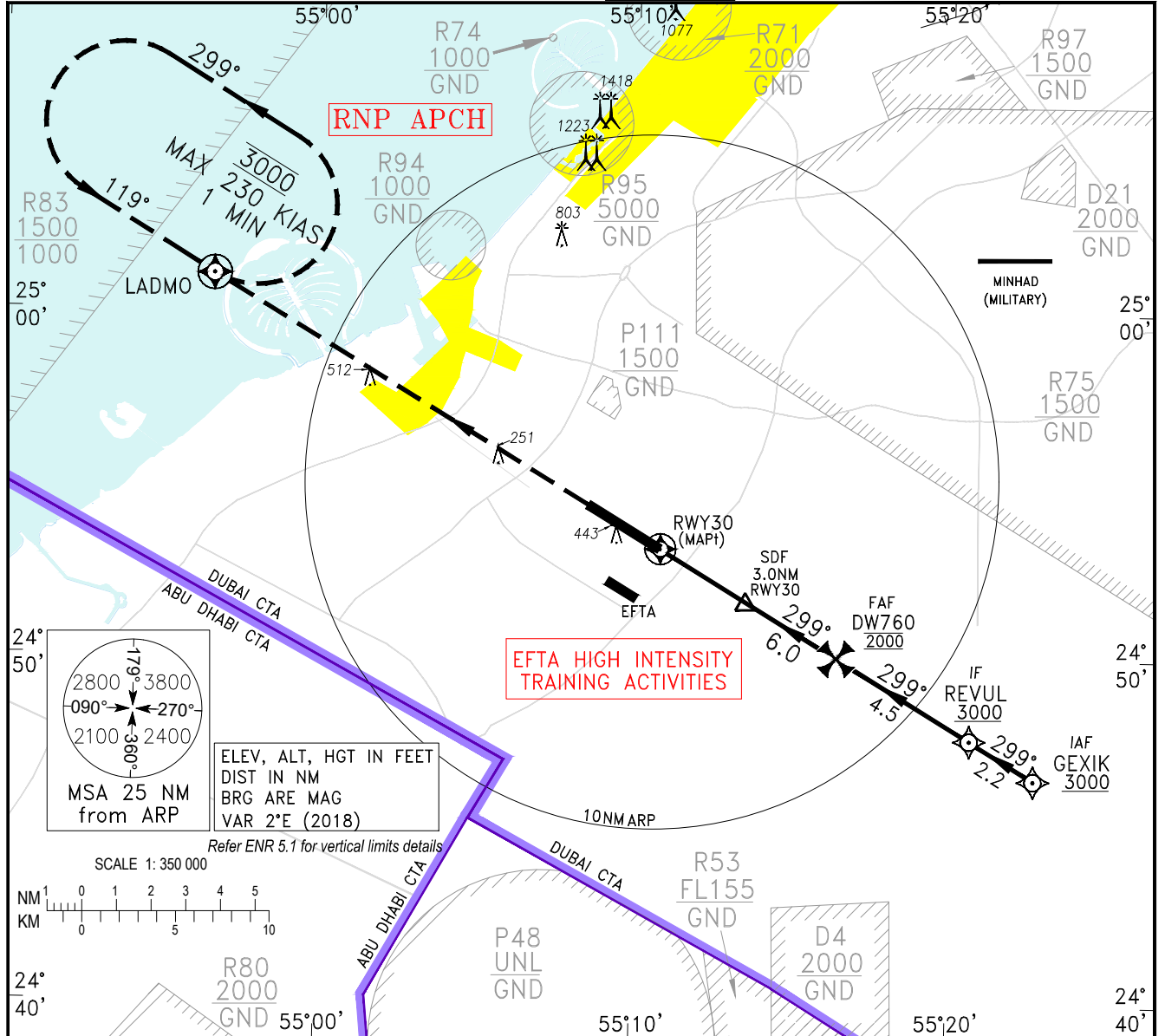
CHANGES: Added P111, R74, Editorial.

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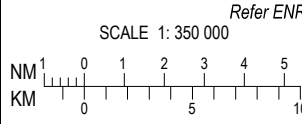
INSTRUMENT AD ELEV 171 FT
 APPROACH HEIGHTS RELATED TO THR RWY 30 ELEV 171 FT
 CHART-ICAO MNM TEMP FOR VNAV 5°C

| | |
|------------|---------|
| ATIS (ARR) | 123.175 |
| AMR | 124.025 |
| DEP (N) | 126.200 |
| DEP (S) | 121.025 |
| DSR | 120.400 |
| TWR | 118.625 |
| GND | 118.375 |

DUBAI/Al Maktoum Intl.
 RNP RWY 30
 CAT A - DL



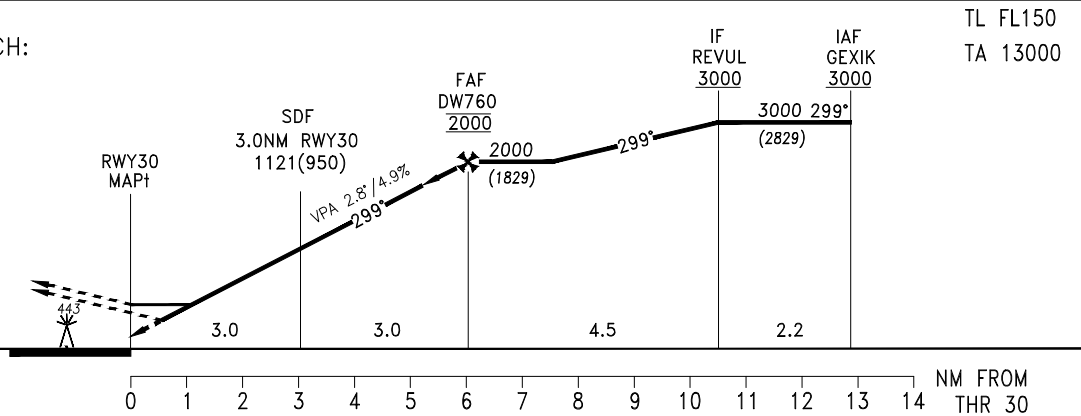
ELEV, ALT, HGT IN FEET
 DIST IN NM
 BRG ARE MAG
 VAR 2°E (2018)



MISSED APPROACH:
 Climb direct to LADMO
 hold at 3000'.

RDH 50 FT

ELEV 171 FT
 (THR RWY 30)



| | | | | | | |
|----------------------|--------------------------------------|-----------|-----------|-----------|-----------|-----------|
| OCA/H | | A | B | C | D | DL |
| Straight-in Approach | LNAV/VNAV ^① MACG 3.00% | 404 (233) | 416 (245) | 428 (257) | 457 (286) | 457 (286) |
| | LNAV MACG 3.00% | 570 (399) | | | | |
| Circling | | N/A | | | | |

| | | | | | | | | |
|------------------------------------|---------------------|--------|------|------|------|------|-----|-----|
| ①LNAV/VNAV DH 250 FT ACFT CAT A,B. | Distance from RWY30 | NM | 5.9 | 4.9 | 3.9 | 2.9 | 1.9 | 0.9 |
| | Altitude | FT | 1970 | 1670 | 1370 | 1080 | 780 | 480 |
| | Ground Speed | KT | 80 | 100 | 120 | 140 | 160 | 180 |
| | Rate of Descent | FT/MIN | 400 | 500 | 610 | 710 | 810 | 910 |

CHANGES: Added P111, R74. Editorial.

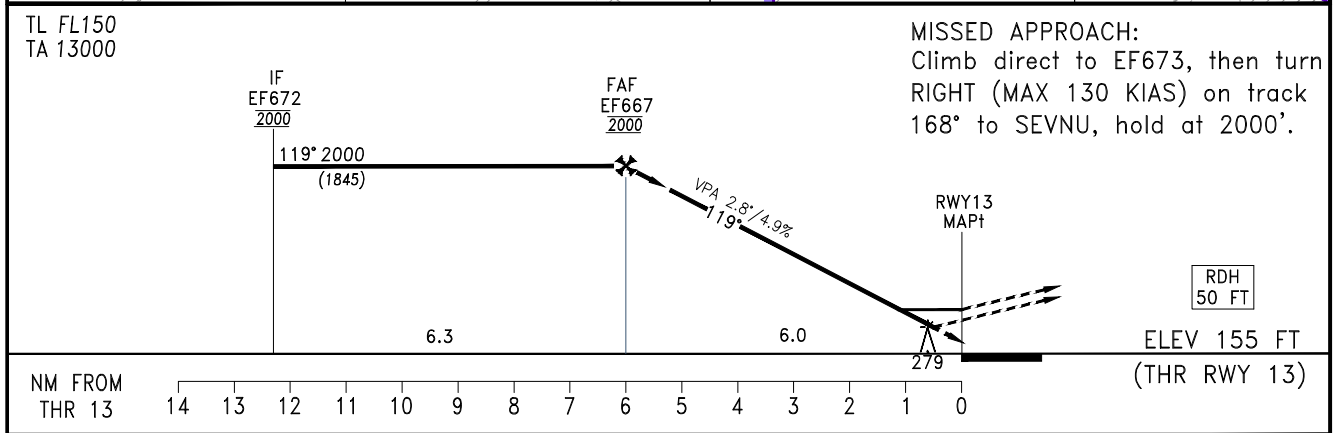
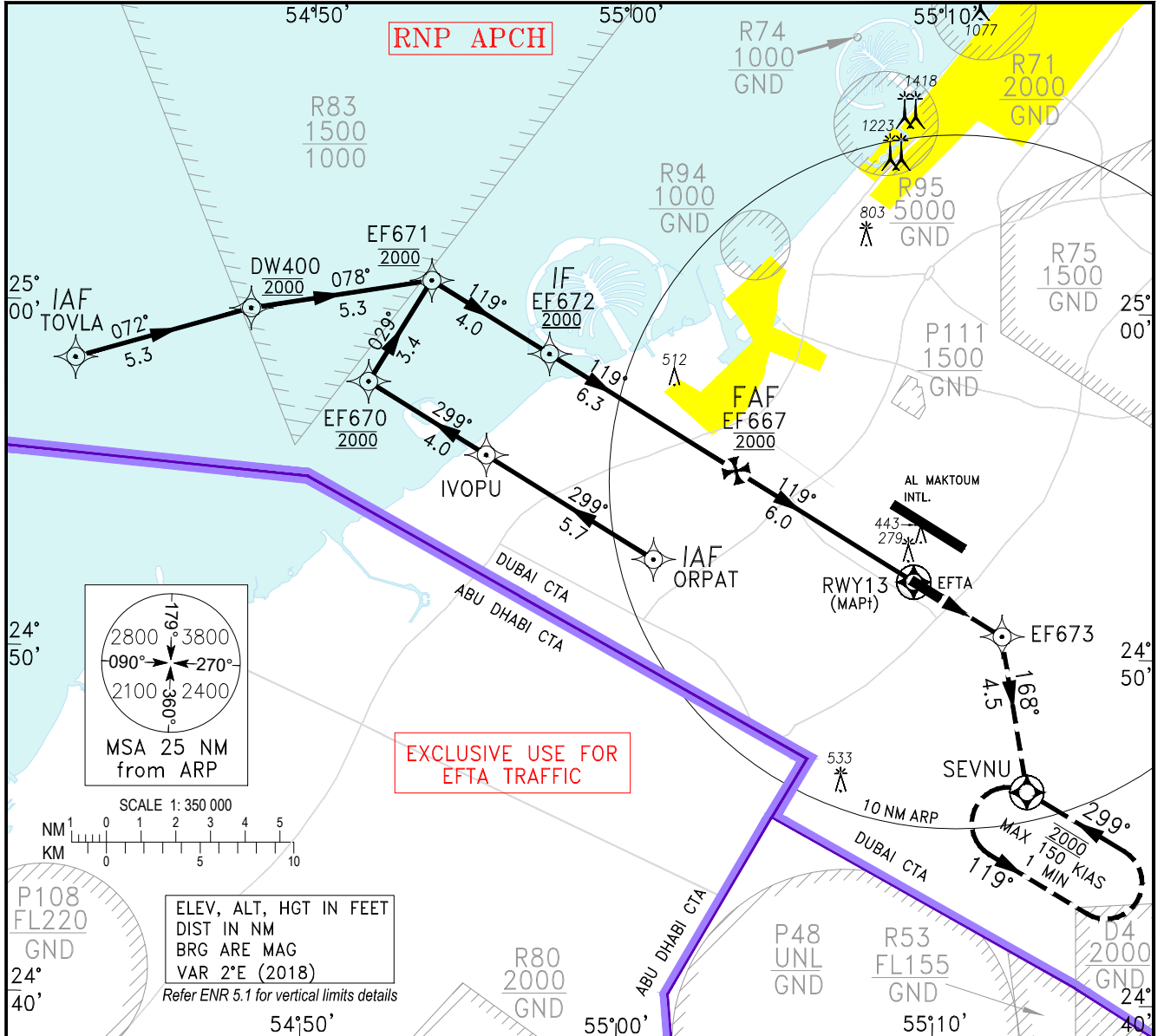
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INSTRUMENT APPROACH CHART-ICAO

AD ELEV 171 FT
 HEIGHTS RELATED TO THR RWY 13 ELEV 155 FT
 MNM TEMP FOR VNAV 5°C

| | |
|----------|---------|
| AMR | 124.025 |
| DSR | 120.400 |
| EFTA TWR | 118.775 |

DUBAI/Al Maktoum Intl.
 RNP RWY 13
 CAT A - B



| | | | | | | | | |
|----------------------|-------------------------|-----------|-----------|--|--|--|--|--|
| OCA/H | | A | B | | | | | |
| Straight-in Approach | LNAV/VNAV MACG 3.50% | 409 (254) | 421 (266) | | | | | |
| | LNAV MACG 3.50% | 530 (375) | | | | | | |
| Circling (1) | | 740 (569) | | | | | | |

| | | | | | | | | | |
|--|-------------|---------------------|--------|------|------|------|------|-----|-----|
| (1) Circling not authorised N of the runway centreline | No Circling | Distance from RWY13 | NM | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 |
| | | Altitude | FT | 1990 | 1690 | 1390 | 1090 | 800 | 500 |
| | | Ground Speed | KT | 80 | 100 | 120 | 140 | | |
| | | Rate of Descent | FT/MIN | 400 | 500 | 610 | 710 | | |

CHANGES: Added P111, R74. Editorial.

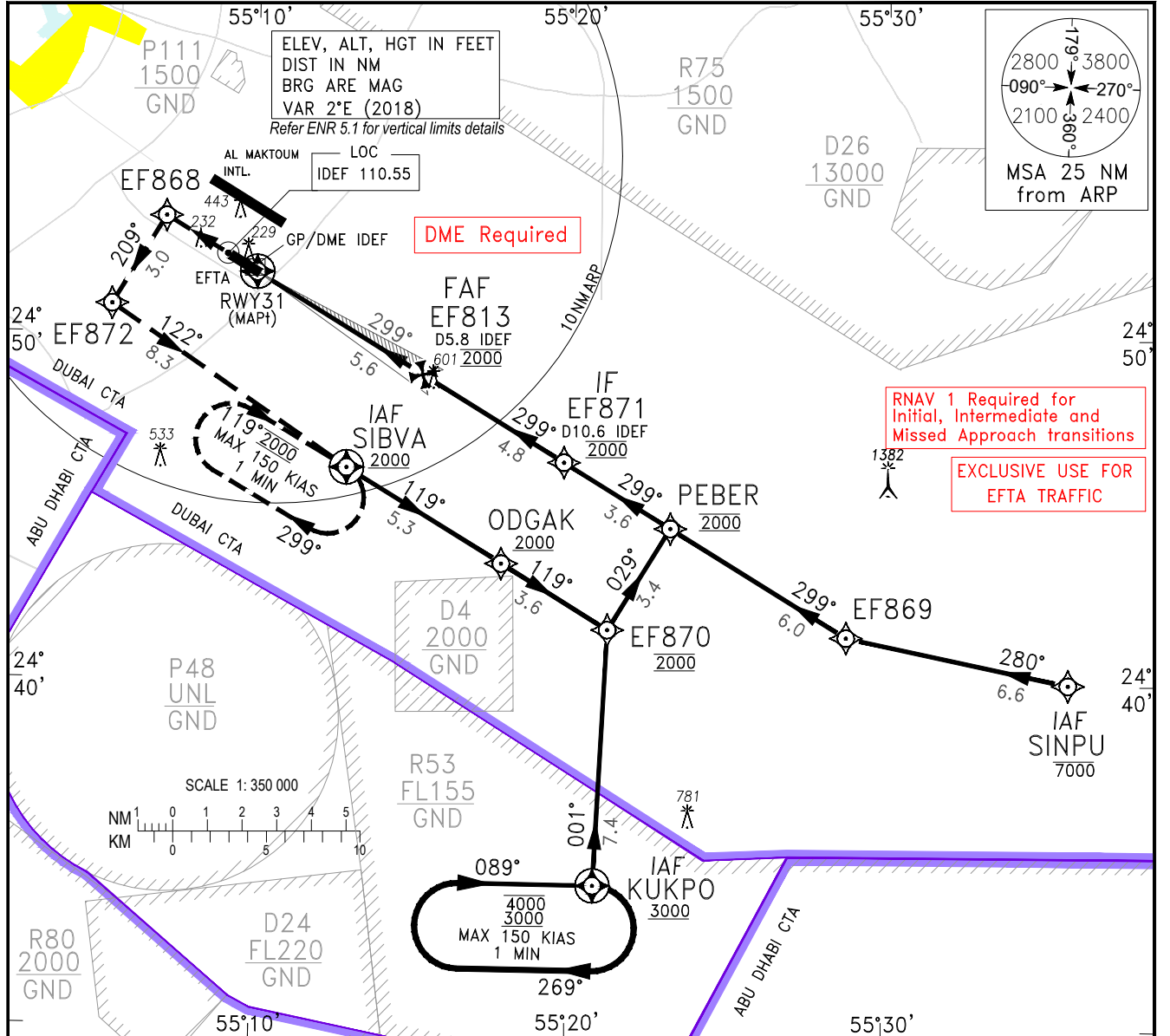
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INSTRUMENT
APPROACH
CHART-ICAO

AD ELEV 171 FT
HEIGHTS RELATED TO
THR RWY 31 ELEV 155FT

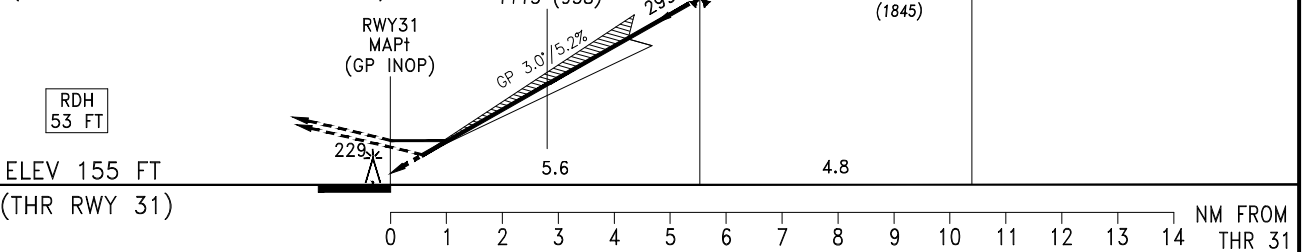
| | |
|----------|---------|
| AMR | 124.025 |
| DSR | 120.400 |
| EFTA TWR | 118.775 |

DUBAI/AI Maktoum Intl.
ILS RWY 31
CAT A - B



MISSED APPROACH:
Climb direct to EF868, then turn LEFT to EF872, then turn LEFT to SIBVA and hold at 2000'.
(MAX 130 KIAS for ALL turns)

TL FL150
TA 13000



| OCA/H | | A | B | | | | | | | | |
|--|-----------|-----------|-----------|--------------------|--------|------|------|------|------|-----|-----|
| Straight-in Approach | ILS CAT I | 360 (205) | 372 (217) | | | | | | | | |
| | GP INOP | 480 (325) | | | | | | | | | |
| Circling | | 740 (569) | | | | | | | | | |
| (1) Circling not authorised N of the runway centreline | | | | Distance from IDEF | NM | 5.8 | 4.8 | 3.8 | 2.8 | 1.8 | 0.8 |
| | | | | Altitude | FT | 1990 | 1670 | 1350 | 1040 | 720 | 400 |
| | | | | Ground Speed | KT | 80 | 100 | 120 | 140 | | |
| | | | | Rate of Descent | FT/MIN | 420 | 530 | 630 | 740 | | |

CHANGES: Added P111. Editorial.

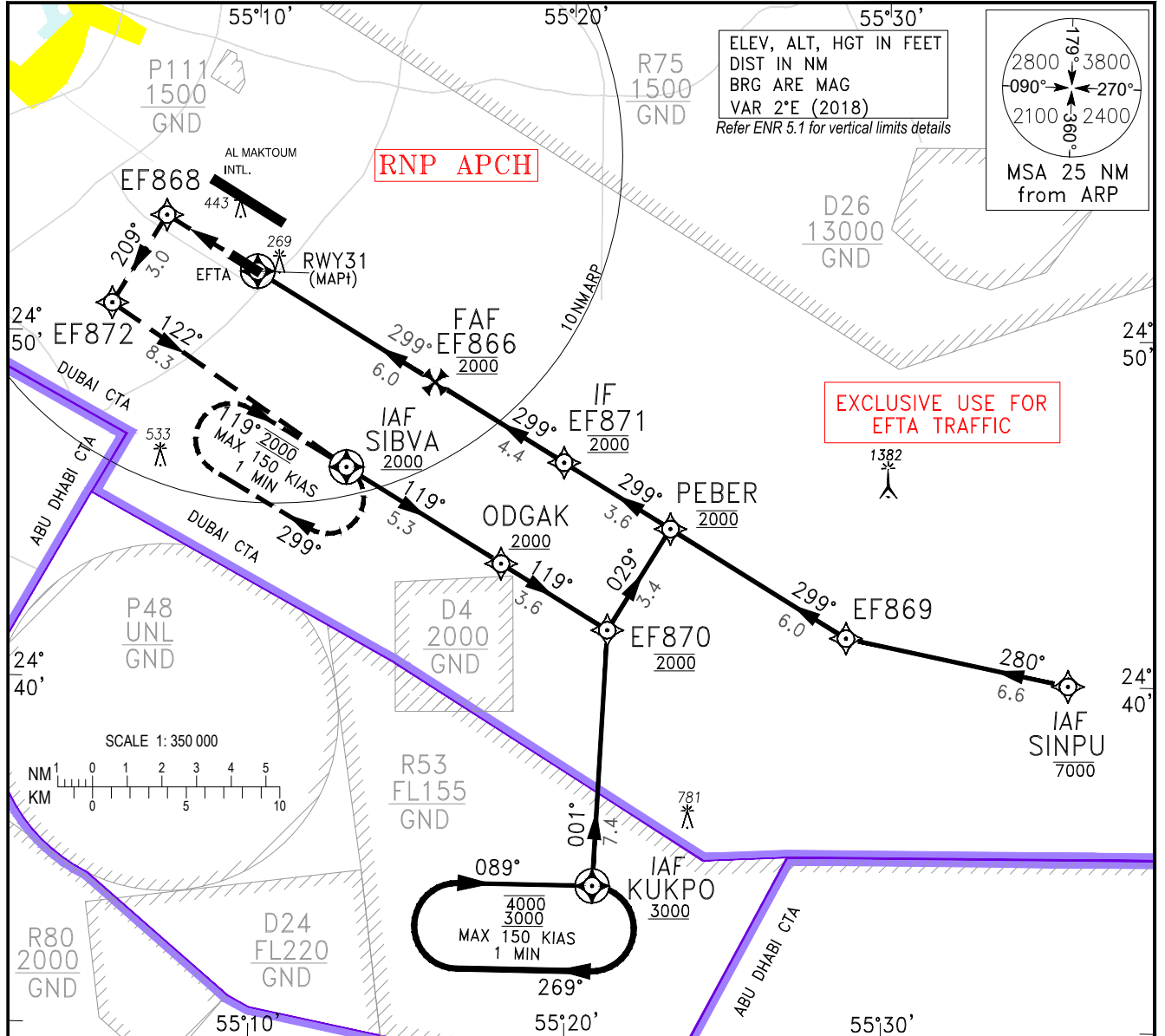
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INSTRUMENT APPROACH CHART-ICAO

AD ELEV 171 FT
 HEIGHTS RELATED TO THR RWY 31 ELEV 155FT
 MNM TEMP FOR VNAV 5°C

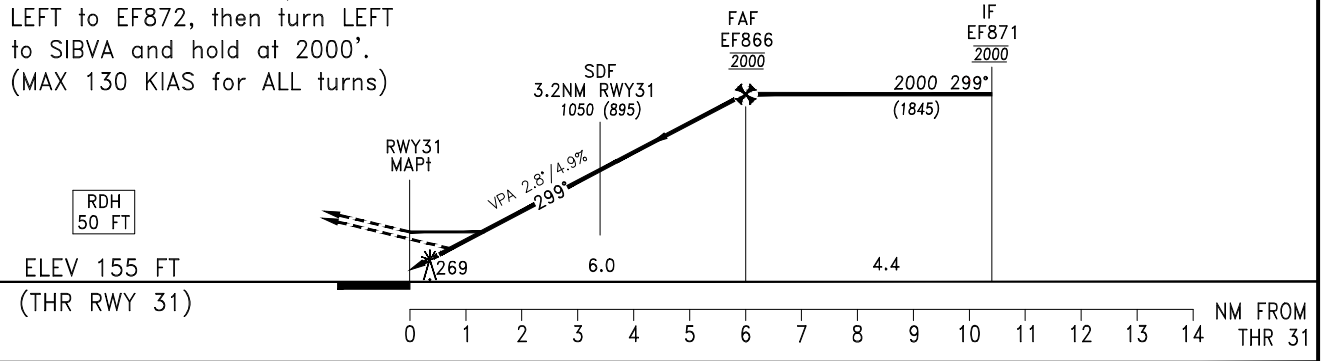
| | |
|----------|---------|
| AMR | 124.025 |
| DSR | 120.400 |
| EFTA TWR | 118.775 |

DUBAI/AI Maktoum Intl.
 RNP RWY 31
 CAT A - B



MISSED APPROACH:
 Climb direct to EF868, then turn LEFT to EF872, then turn LEFT to SIBVA and hold at 2000'.
 (MAX 130 KIAS for ALL turns)

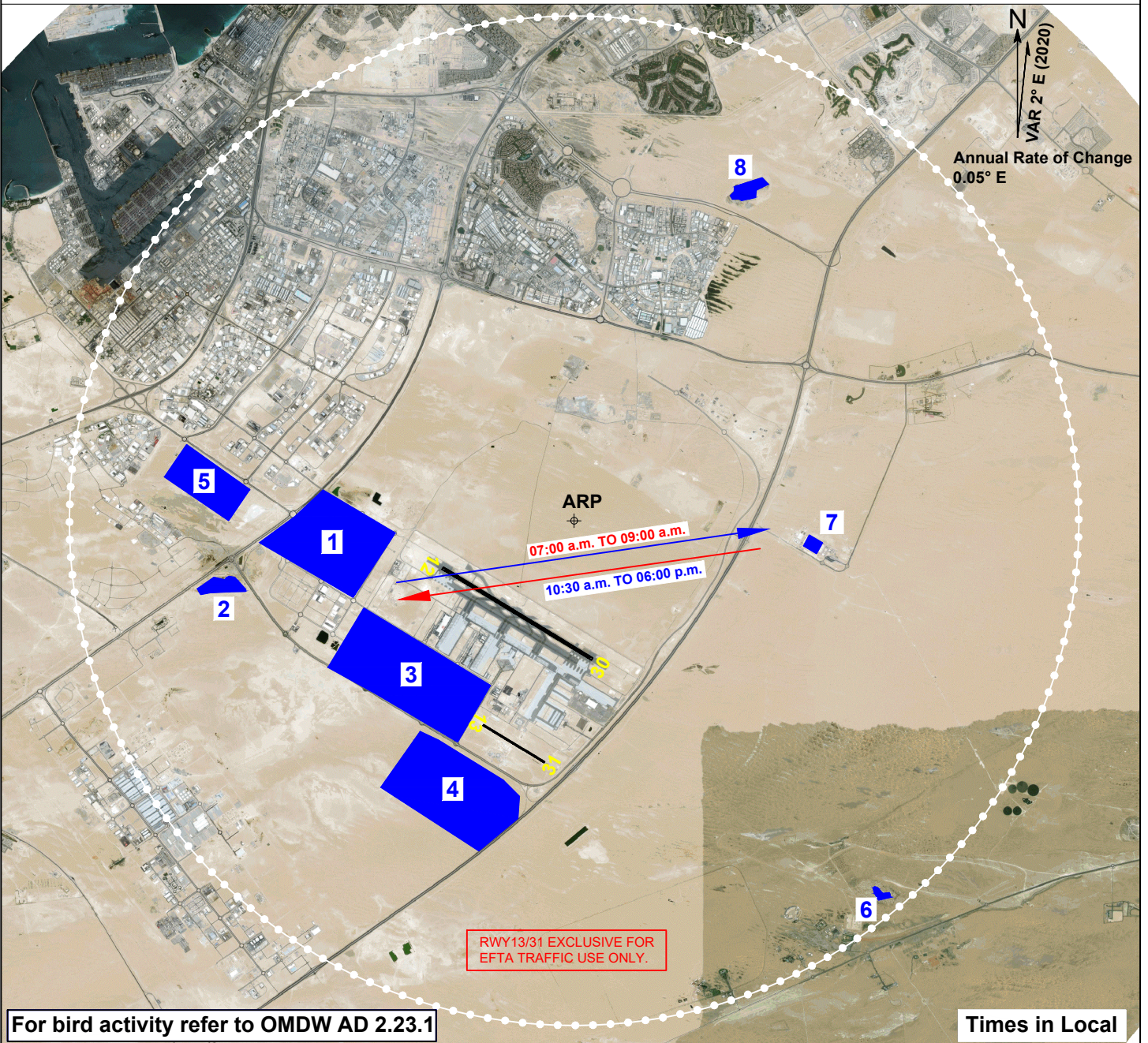
TL FL150
 TA 13000



| | | | | | | | | | | | | | |
|--|-------------------------|-----------|-----------|--|--|---------------------|--------|------|------|------|------|-----|-----|
| OCA/H | | A | B | | | | | | | | | | |
| Straight-in Approach | LNAV/VNAV MACG 4.00% | 405 (250) | 411 (256) | | | | | | | | | | |
| | LNAV MACG 4.00% | 520 (365) | | | | | | | | | | | |
| Circling | | 740 (569) | | | | | | | | | | | |
| (1) Circling not authorised N of the runway centreline | | | | | | Distance from RWY31 | NM | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 |
| | | | | | | Altitude | FT | 1990 | 1690 | 1390 | 1090 | 800 | 500 |
| | | | | | | Ground Speed | KT | 80 | 100 | 120 | 140 | | |
| | | | | | | Rate of Descent | FT/MIN | 400 | 500 | 610 | 710 | | |

CHANGES: Added P111. Editorial.

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LEGEND

- 13 KM RADIUS FROM ARP
- SPECIAL BIRD HAZARD ZONE
- 1** DUBAI SOUTH HQ
- 2** DUBAI SOUTH WATER STORAGE PONDS
- 3** LOGISTICS CITY
- 4** EMAAR SOUTH
- 5** DUBAI MUNICIPALITY WASTE PLANT (DMWP)
- 6** SAIH AL SALAM LAKE
- 7** DEWA WASTE PLANT
- 8** DIP LAKE
- BIRD MOVEMENT

CHANGES: Editorial.

NOT TO SCALE

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