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Hulhule' 22000

AIC
03/24
21 JAN 2024

REDEVELOPMENT PROJECT OF HANIMAADHOO INTERNATIONAL AIRPORT/VRMH

1. PURPOSE

1.1 The purpose of this AIC is to provide information and advice regarding the scope of works and facilities provided pertaining to the planned (on going) redevelopment of Hanimaadhoo International Airport (VRMH). This AIC will be followed by AIP Supplements and when required NOTAMs that will provide details of the development works, introduction of new facilities and services, relocation of existing facilities and services, and revision to existing procedures.

2. NEW RUNWAY AND ASSOCIATED AIRSIDE FACILITIES

2.1 New Runway

The proposed new runway is suitable for Code 'C' operations with the design of pavement and geometrics. The runway will be 2460m with a width of 45m and 7.5 m of paved shoulders on both sides. RESA 90m x 90m will be provided at both ends of the runway.

The construction of Proposed Runway 03/21 of 2460mx45m in Phase I is to be done in a phased manner such that there is no hindrance to the ongoing airport operations at VRMH. The existing runway of 1220m x 30m shall remain operational during the construction phase. Once the new proposed runway of 1440 m comes into operation, the existing runway demolition shall be done, and the final stretch of the new runway of 675m shall be constructed, out of which the final stretch of connectivity between chains shall be done.

2.2 Taxiways

Two new connecting taxiways A and B, code C will connect the new runway. The taxiway C will be constructed between two aprons.

2.3 Parking Aprons

The new apron will be developed to provide space for three A320 aircraft stands with passenger boarding bridges (PBB), and Code C 6 remote stands.

3. AIRSIDE CONFIGURATION

3.1 Runway Designations

The new runway designation as (03/21) has the same orientation with the current runway (03/021).

3.2 New Taxiway Designations.

The proposed taxiways will be designated as per International standards.

4. VISUAL AIDS

The aerodrome lighting system for New Runway 21 at VRMH will be based on ICAO simple approach lighting. Runway 03 will be equipped with threshold indicator.

4.1 Simple Approach Lighting System

Lighting System with Sequential Flashing Light shall be provided on Runway 21. Each Light shall consist of single light source as per ICAO Annex 14 edition 9 Volume I. The lights shall be provided on ground as the terrain is fairly levelled in approach area. The light spacing of 60m interval shall be as provided in Figure A-7 Page ATT A-18 (Annex14). Flashing Lights shall be provided adjacent to Approach Centre line Light located at 300m, 360m and 420m.

4.2 Runway Edge Lights

Runway edge lights will be installed along the full length of the runway at intervals of 60m. The edge lights will be elevated and on taxiways where the light will be inset. The edge lights will show white on both sides.

4.3 Threshold Lights

Elevated threshold lights will be installed at extreme end of both runways.

4.4 Runway End Lights

Runway end lights will be installed on a line at right angles to the runway axis at 2m from outside the end of runway. Runway end lights will be fixed unidirectional lights showing red in the direction of the runway. The runway end lights are elevated and frangible.

4.5 Precision Approach Path Indicator (PAPI)

PAPI will be installed for both ends of the runway. PAPI will be installed on the left side of the runway.

4.6 Runway Guard Lights

Runway Guard Lights will be installed at each taxiway associated with the runway. A pair of unidirectional, flashing yellow lights will be located at each side of the taxiway in line with the runway-holding position.

4.7 Taxiway Guidance / Mandatory Signs

Signage will be in accordance to ICAO Annex 14. The signs include mandatory instruction signs and information signs.

4.8 Wind Direction Indicator

Two illuminated wind direction indicators will be installed in the vicinity of the aiming points at both end of the runway, with external lighting system. Mounting parts for the wind direction indicator will be frangible.

5. BUILDINGS

5.1 New Passenger Terminal Building (NPTB)

The New Passenger Terminal Building (NPTB) is for 3.5 million passengers per year when completed. The NPTB will be built south of the present International Terminal Building. The NPTB building will have a total floor space of approx. 10,380 square meters.

5.2 Air Cargo Terminal Complex

The new cargo complex will be built in the north west of the island.

5.3 Aerodrome Rescue and Fire Fighting Building (ARFF)

An additional ARFF facility will be built on the western side of the new runway. This facility will house ARFF vehicles mainly to cater for the new runway to serve the land aerodrome

6. FUEL FARM

A new fuel farm with a storage capacity of 1,674,000 liters of Jet A1 fuel will be built along with fuel hydrant system for refueling all types of aircraft parked at designated parking positions.

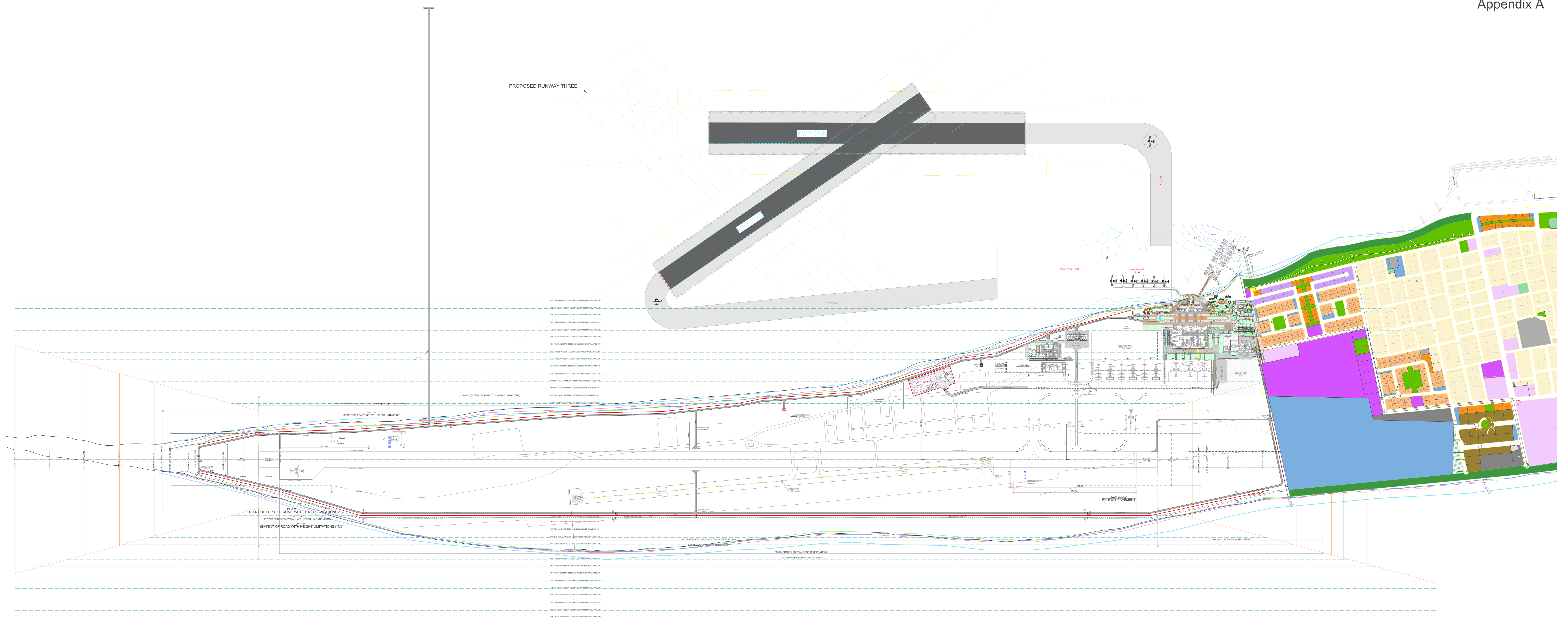
7. PROPOSED INFRASTRUCTURE HEIGHT

PROPOSED INFRASTRUCTURE HEIGHT							
No	Infrastructure	Distance from RWY Centerline to the edge of the Infrastructure in M	Standard Elevation as per 14.3% Slope in M, Considering 2.1M as reference	Building Height In M as per Architectural Intent in M.	Natural Ground Level as per Topo Survey (In M)	Total Height Available for Infrastructure	Clear (-) Infringement (+)
1	Terminal building	323.9	26.27	19.85	1.60	26.77	-6.92
2	ATC & ARFF Block	338.5	28.36	28.30	1.98	28.48	-0.28
3	ESS & Utility block	295.3	22.19	6.50	2.14	22.14	-15.64
4	Hangar block	250.6	15.80	9.10	1.82	16.08	-6.98
5	Cargo Block	307.3	23.90	14.30	1.66	24.34	-10.04
6	Multipurpose Building	428.3	41.19	39.10	1.80	41.49	-2.39
7	Fuel Farm	209.6	9.94	10.00	1.70	10.34	-0.34
8	GSE Shed	305.3	23.61	9.60	1.62	24.09	-14.49
9	Water Tanks	293.4	21.91	7.50	1.74	22.27	-14.77
10	STP	275.4	19.34	6.00	1.86	19.58	-13.58

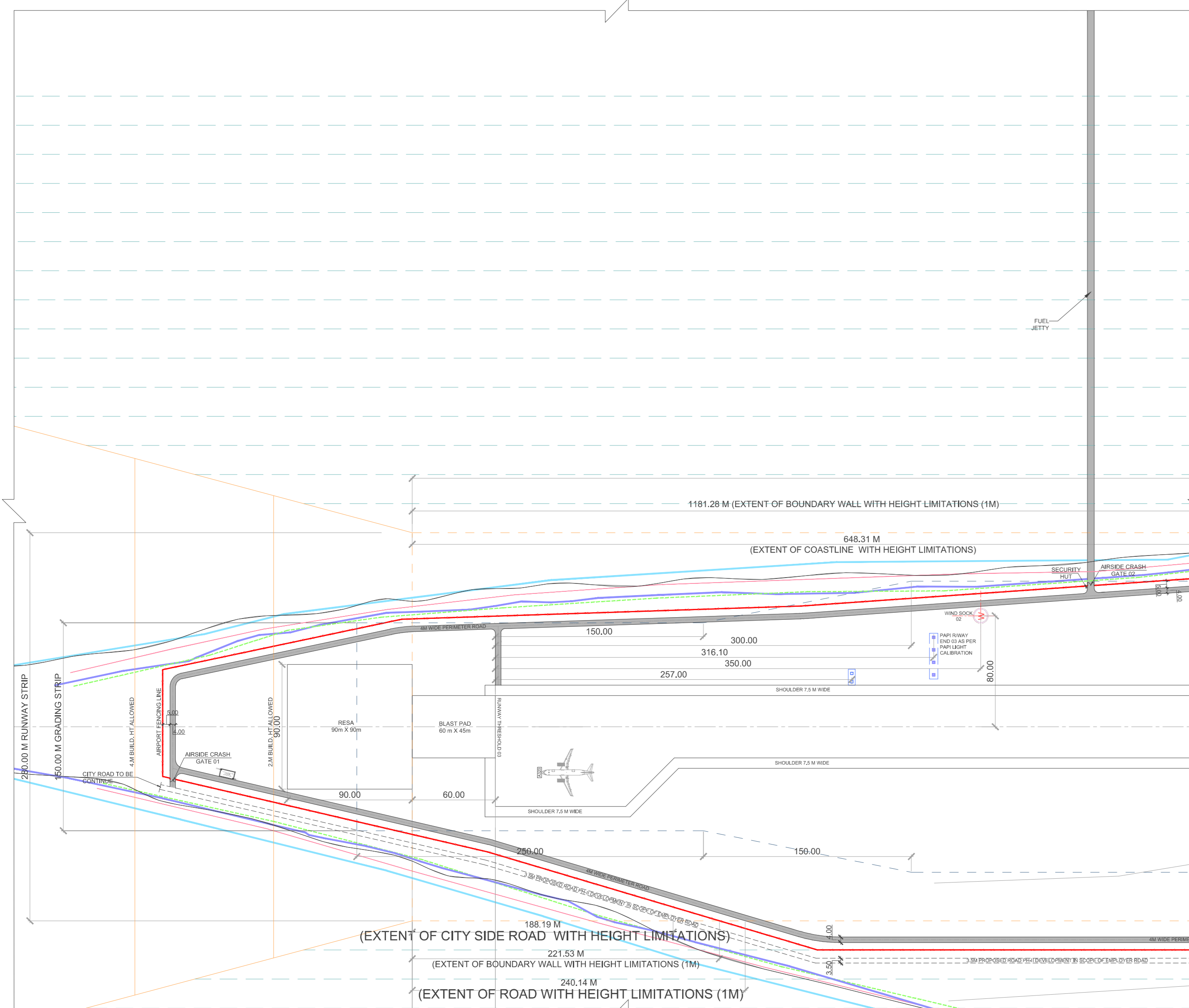
- Appendix A attached shows the layout plan of Hanimaadhoo International Airport.

8. VALIDITY

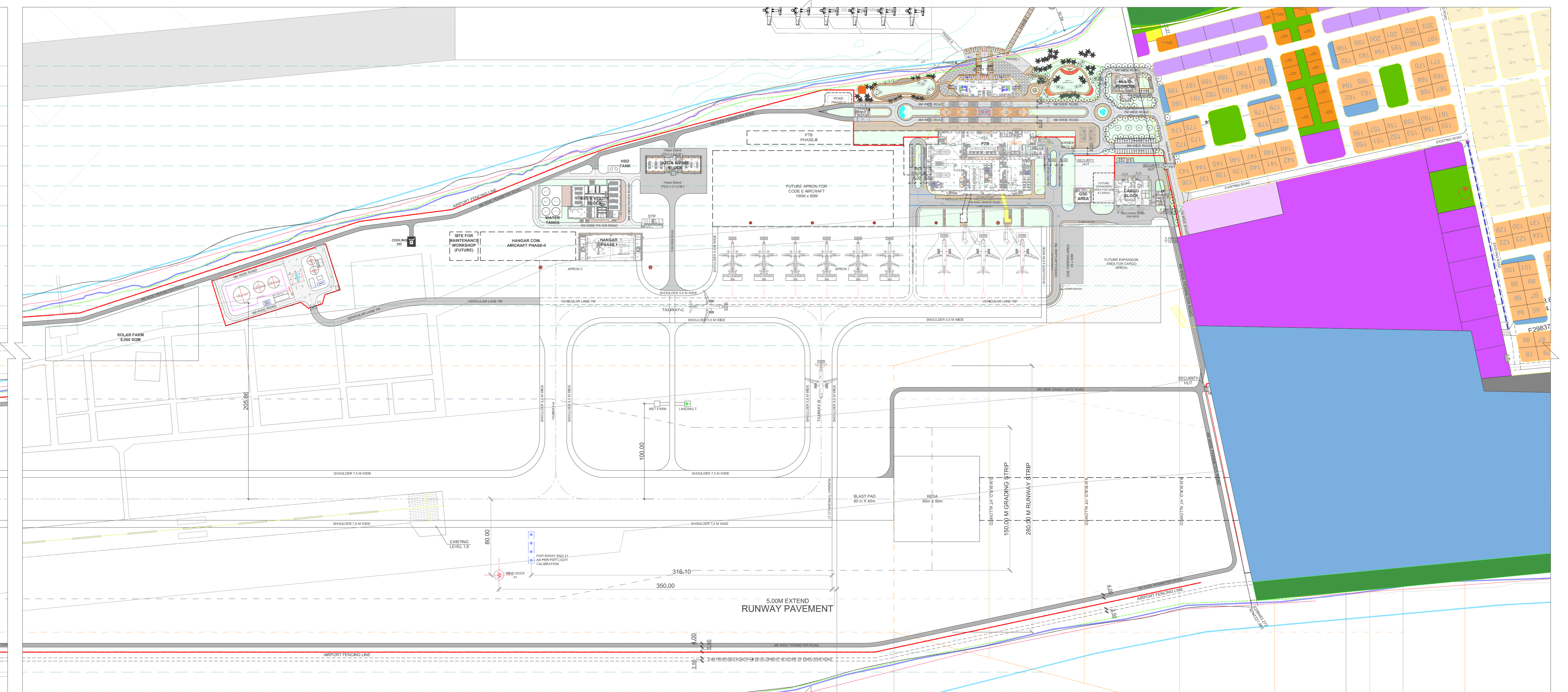
8.1 This AIC will remain current until superseded by subsequent AIP Supplement on the expansion and upgrading work.



MASTER PLAN 01
HANIMAADHOO INTERNATIONAL AIRPORT 1:4500



PART PLAN-02 02
HANIMAADHOO INTERNATIONAL AIRPORT 1:2500



PART PLAN-02 02
HANIMAADHOO INTERNATIONAL AIRPORT 1:2500