

PROPOSED DEVELOPMENT OF

SOOK AIRPORT

SOOK, KENINGAU,
SABAH
LAND BELOW THE WIND

FOR



A Presentation By

TRANSONIC
KONSORTIUM TRANSONIC (SABAH) SDN. BHD. (1206585-D)

LAND BELOW THE WIND

SOOK AIRPORT

CONTENT

- Site Location
- Design Concept
- Design Development
- Main Terminal
- Conceptual Master Plan
- Perspectives & Aerial Views

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- Site is located near the town of Sook
- The surrounding area consists of oil palm plantations
- Site is accessible via Jalan Tawau - Keningau

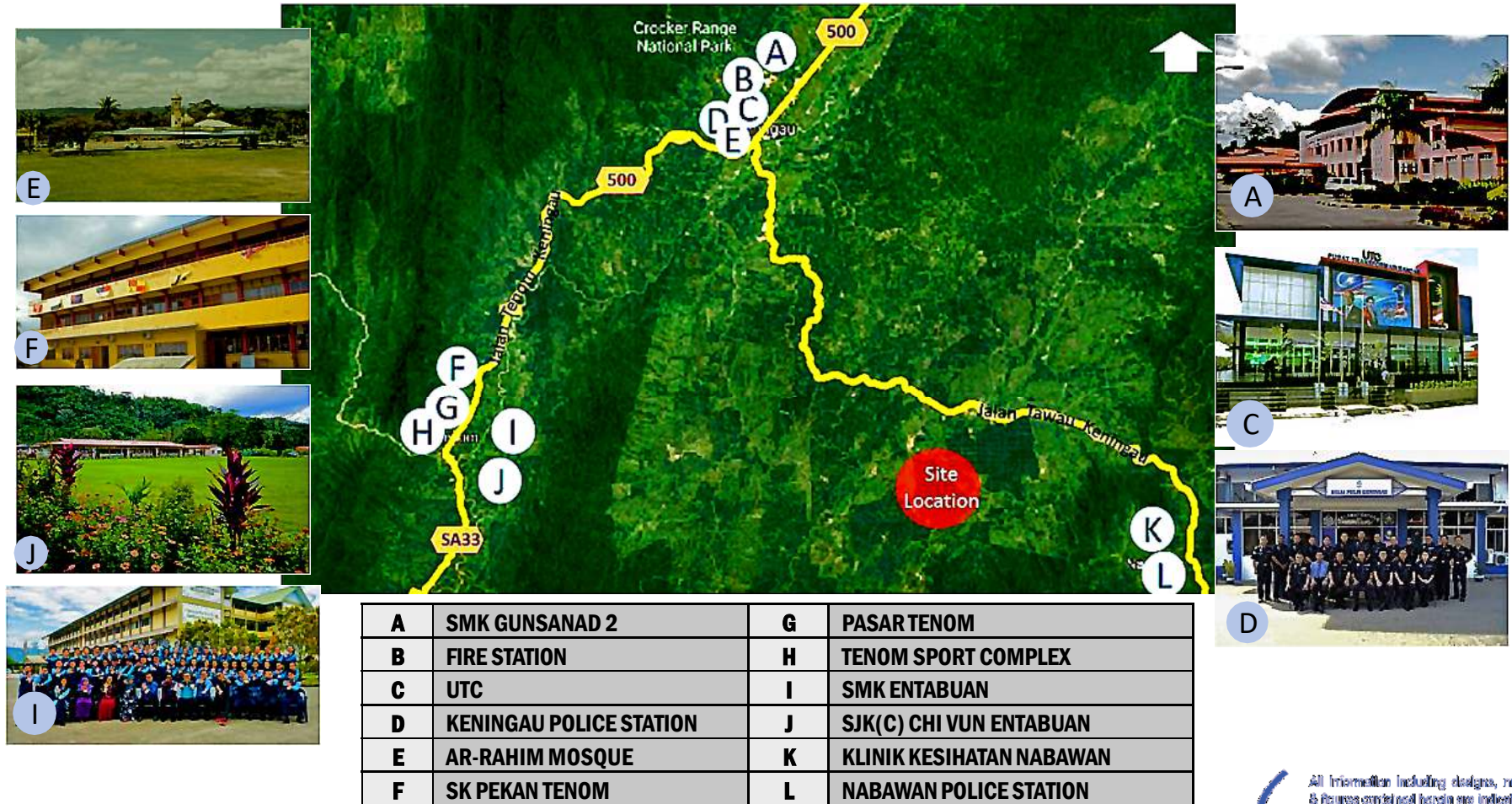
**LAND SIZE:-
2,170 HECTARE
(5,362.20 ACRES)**

KEY PLAN



LAND BELOW THE WIND

SOOK AIRPORT



SITE ANALYSIS (EXISTING DEVELOPMENT)

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LAND BELOW THE WIND
SOOK AIRPORT



DESIGN CONCEPT

LAND BELOW THE WIND SOOK AIRPORT



An Airport is the single large building with the most land used area. It is known to be the most visited building in the world as it becomes the established legal access for domestic and international to a particular place or country. Therefore, the design concept is prioritized on the local and cultural element, indicating the sociology and demographic of the site. By doing so, the airport will naturally introduce and welcome the arriving passengers and tourists to the local's culture.



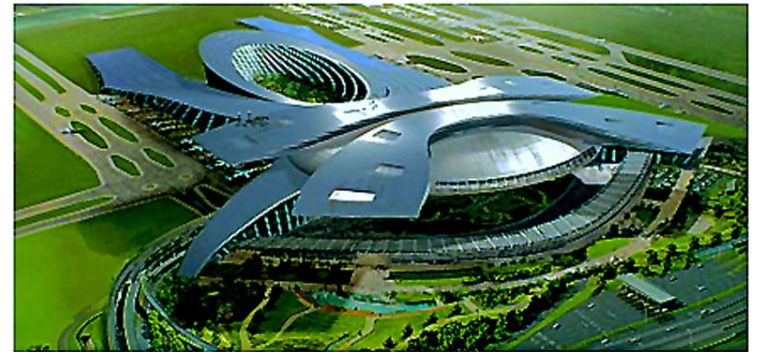
CASE STUDY :

AIRPORT & TOWNSHIP

LAND BELOW THE WIND SOOK AIRPORT



Hence, New Sook Airport will be designed to accommodate standard airport requirements and Facilities with accurate impression of local's symbol and culture. These airports designs are strongly representing their own local and cultural elements which are conveyed by the parametric design of building's plan, roof and façade. Symmetrical building's plan parametric and design will be best conveying the cultural element of Sook, Keningau.

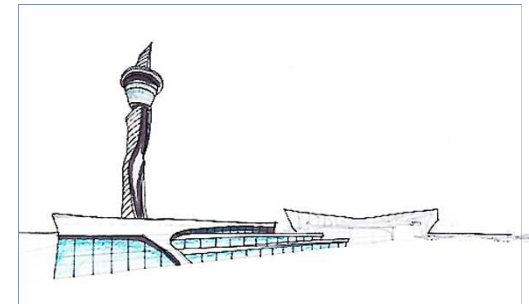
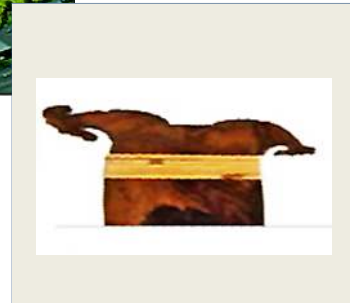
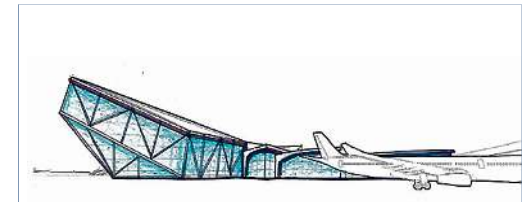
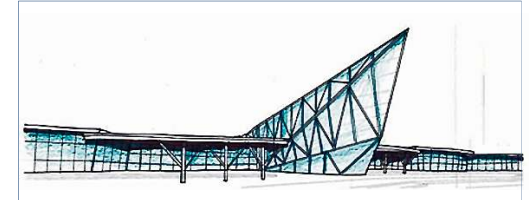


CASE STUDY :

AIRPORT & TOWNSHIP

LAND BELOW THE WIND SOOK AIRPORT

The building overall concept is derived from the Murut Shield with other local traditional craftworks, accessories, musical instruments and amou-ware which Sabahan culture and heritage being upstaged to international platform



CONCEPT DEVELOPMENT

MAIN TERMINAL

LAND BELOW THE WIND SOOK AIRPORT

The interior design is an influence of technology, sustainability, efficiency and flexibility – focused on human interaction and and comfort.

With design elements adapting to local culture, motifs and materials, the ambiance will take on a grandeur outlook which is not only impressive but gives out the homely surrounding.

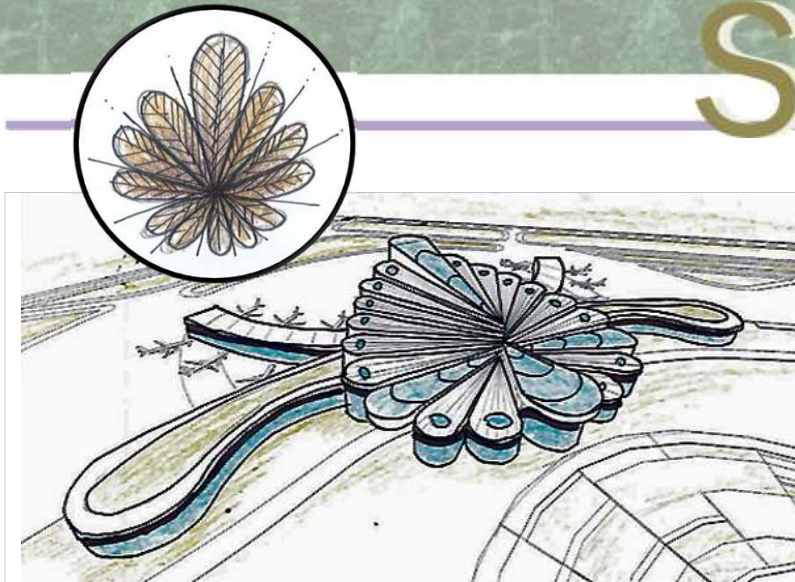
The outdoor landscape will have a spillover effect into the interior to mimic our rain forest diversity for a cooling and warmth atmosphere.



CONCEPT DEVELOPMENT

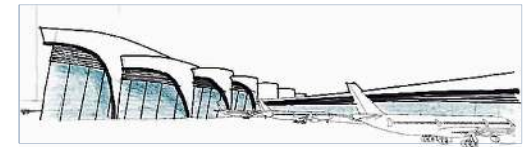
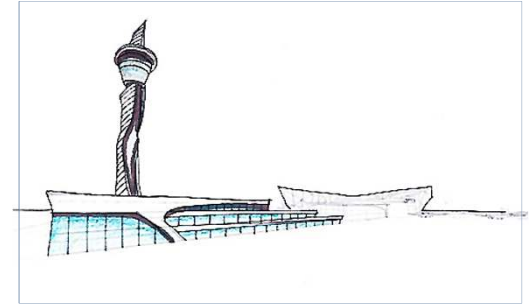
MAIN TERMINAL

LAND BELOW THE WIND SOOK AIRPORT



Inspired by **THE GREAT ARGUS PHEASANT**, the airport will take on the form of this magnificent local bird of Borneo. Plume that feature a long elegant tail, its male has a spectacular pattern adorned on a huge and elongated tail. More stunningly, its decorated with large ocelli.

Sought after by the Mulu tribe, the feathers adorn the Mulu tribesmen's headdress that symbolises their clan for generations.



CONCEPT DEVELOPMENT

MAIN TERMINAL

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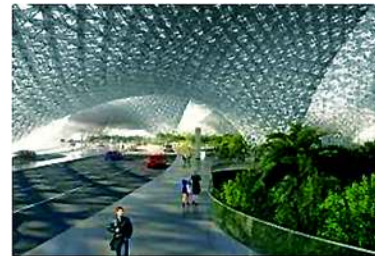


IMAGE REFERENCE : LEVEL 1

MAIN TERMINAL

LAND BELOW THE WIND

SOOK AIRPORT



IMAGE REFERENCE : LEVEL 2

MAIN TERMINAL

LAND BELOW THE WIND

SOOK AIRPORT

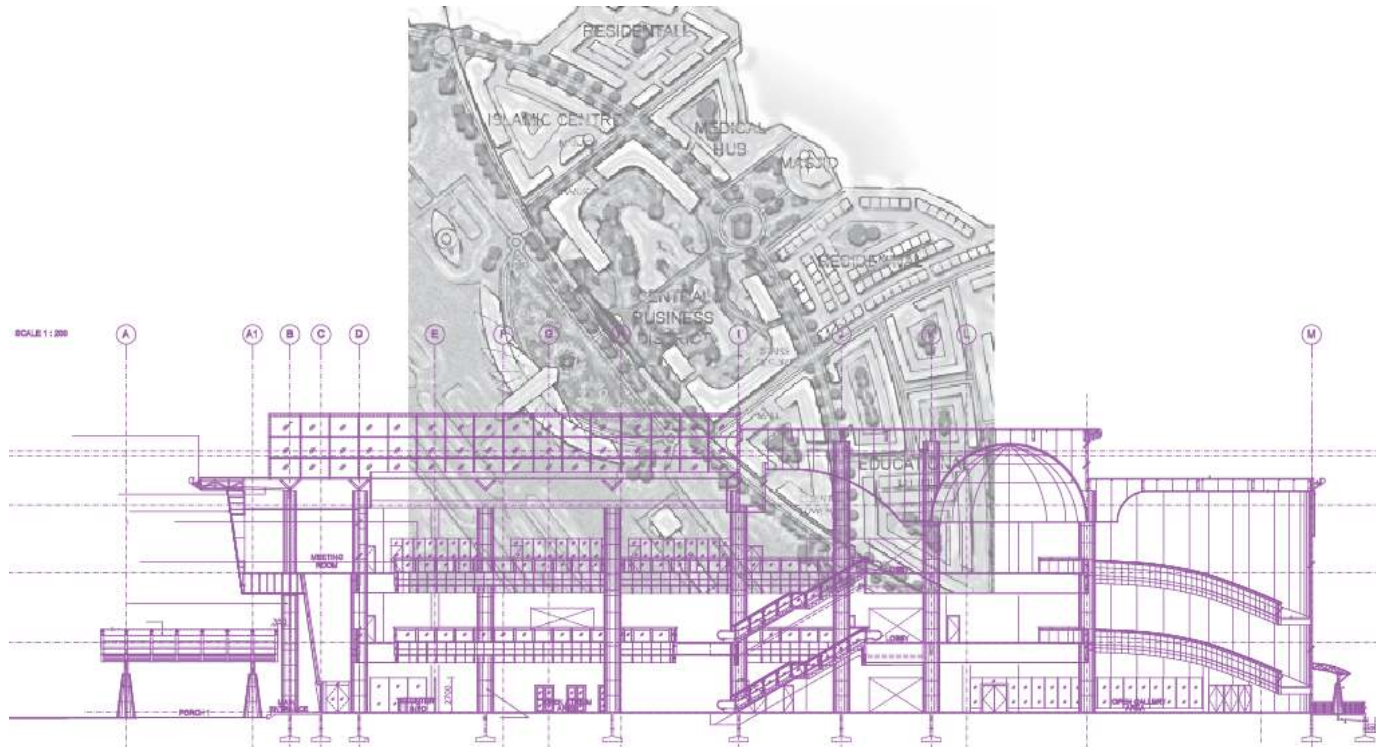


IMAGE REFERENCE : LEVEL 3

MAIN TERMINAL

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DESIGN DEVELOPMENT

LAND BELOW THE WIND SOOK AIRPORT

LOCATION

KG. KARAMATOI LAUT, DAERAH KECIL SOOK, KENINGAU, SABAH

POSITION

5 09' 11.01N, 116 30' 33.90E

PHYSICAL CHARACTERISTICS CLIENT'S REQUIREMENTS

NAME : SOOK AIRPORT, KENINGAU

ICAO : WBKG

IATA : KGU

DIRECTION : 14/32

LENGTH : 3780 M X 100M (12,402FT X 328FT)

TERMINAL BUILD UP AREA : 250,000 SQM

RETAIL SPACE : 30,000 SQM

RETAIL OUTLET : 200 OUTLETS

PASSENGER : 40 MILLION PASSENGER PER ANNUM (MPPA)

CARPARK : 10,000 CARPARK

AIR FREIGHT (TONNES) : 200 MILLION TONNES OF CARGO ANNUALLY

AEROBRIDGES : 40

DEPARTURE GATES : 40

SPECIAL REQUIREMENT:

A. SOOK AIRPORT POSITION AS HUMANITARIAN AIRPORT FOR UNITED NATION (UN) – UNITED NATIONS HUMANITARIAN RESOURCES RESPONSE DEPOT (UNHRD)

B. SOOK AIRPORT POSITION AS ALTERNATE AIRPORT / DIVERSION AIRPORT FOR PILOTS

C. SOOK AIRPORT POSITION AS MAINTENANCE, REPAIR AND OVERHAUL (MRO) AIRPORT FOR REGIONAL AIRLINES

D. SABAH CULTURAL CHARACTER AIRPORT DESIGN CONCEPT IS PRIORITIZED ON THE SABAH LOCAL CULTURAL ELEMENT AND SOPHISTICATED INTERIORS IDEAS

E. SOOK AIRPORT CAPABLE TO PROVIDE BEST FRONT LINE CUSTOMER EXPERIENCE ON THE END TO END JOURNEY

F. MEET THE GLOBAL BEST AIRPORT PRACTICE

G. SKYTRAX STAR RATING – TOP 10 BEST REGIONAL AIRPORT IN THE WORLD IN 10 YEARS TIME

1.	Designation Runway Number	14 and 32
	True Magnetic bearing runway 14	145 degrees
	True Magnetic bearing runway 32	325 degrees
	Dimension of runway	3780m x 100m
	Strength of surface runway	Asphalt/Concrete
	Airstrip dimension	4000m x 400
	Declared distance RWY 14/32 TORA	3780m
	Declared distance RWY 14/32 TODA	3841m
	Declared distance RWY 14/32 ASDA	3841m
	Declared distance RWY 14/32 LDA	3780m
2.	Apron surface and strength	Asphalt/Concrete
	Apron surface	Rigid/Flexible
	Strength	PCN59/F/B/X/U
3.	Taxiway width, surface and strength	Asphalt/Concrete
	Width	23m plus 4m hard shoulder
	Surface	Asphalt
	Strength	PCN59/F/B/X/U

PHYSICAL CHARACTERISTICS CLIENT'S REQUIREMENTS

Source: Konsortium Transonic (Sabah) Sdn. Bhd. (1206585-D)/Surah 2023

LAND BELOW THE WIND

SOOK AIRPORT



AIR STRIP

- RUNAWAY
- TAXIWAY
- APRON



MAIN TERMINAL

- DEPARTURE HALL
- ARRIVAL HALL
- CHECK-IN-COUNTER
- SECURITY COUNTER
- IMMIGRATION
- KKM
- PGA
- KASTAM
- MAQIS
- PDRM



POWER PLANT

- ELECTRICAL POWER SUPPLY (SABAH ELECTRICITY SDN BHD)
- INDEPENDENT POWER PLANT
- POWER PLANT



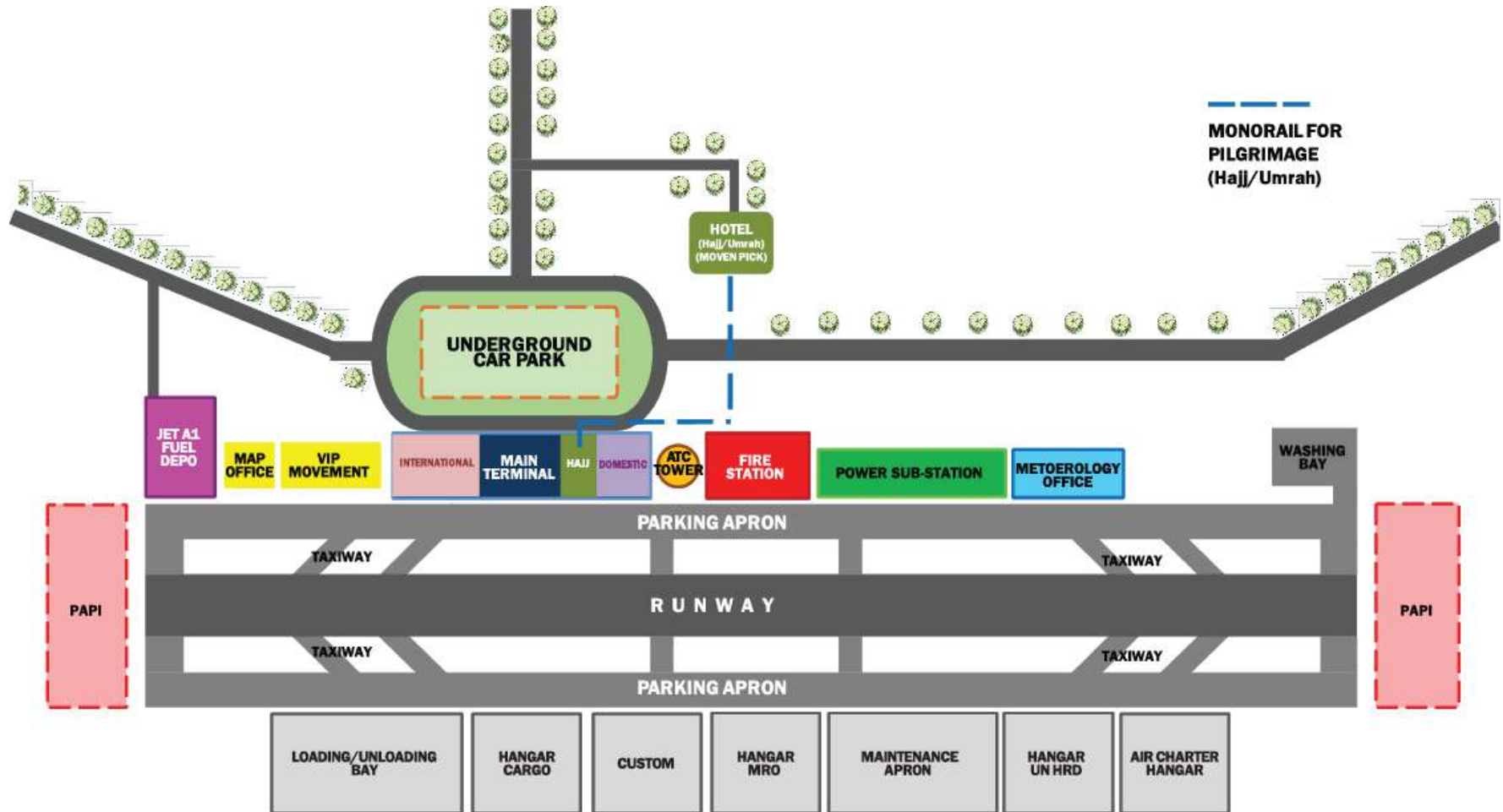
ANCILLARY BUILDING

- ATC
- METEOROLOGY OFFICE
- AUXILIARY POLICE
- FUEL DEPO
- HANGAR CARGO
- FIRE STATION
- HANGER NARD
- VIP MOVEMENT
- AIR CHARTER HANGER
- AIRPORT FIRE RESCUE SERVICE (AFRS)
- AIR DISASTER UNIT (ADU) (MET STATION)
- METEOROLOGY UPPER AIR STATION (MET OFFICE)
- ELECTRICAL EQUIPMENT VAULT (EEV)
- AERONAUTICAL GROUND LIGHTING (AGL)
- MAB CAR/ENGINE MAINTENANCE (WORKSHOP)
- AVIATION SECURITY (AVSEC)
- CAAM OFFICE & AIR TRAFFIC CONTROLLER TOWER (ATC)
- GROUND SERVICES EQUIPMENT (GSE WORKSHOP)
- REFUSE CHAMBER & SCHEDULE WASTE

MAIN COMPONENTS

LAND BELOW THE WIND

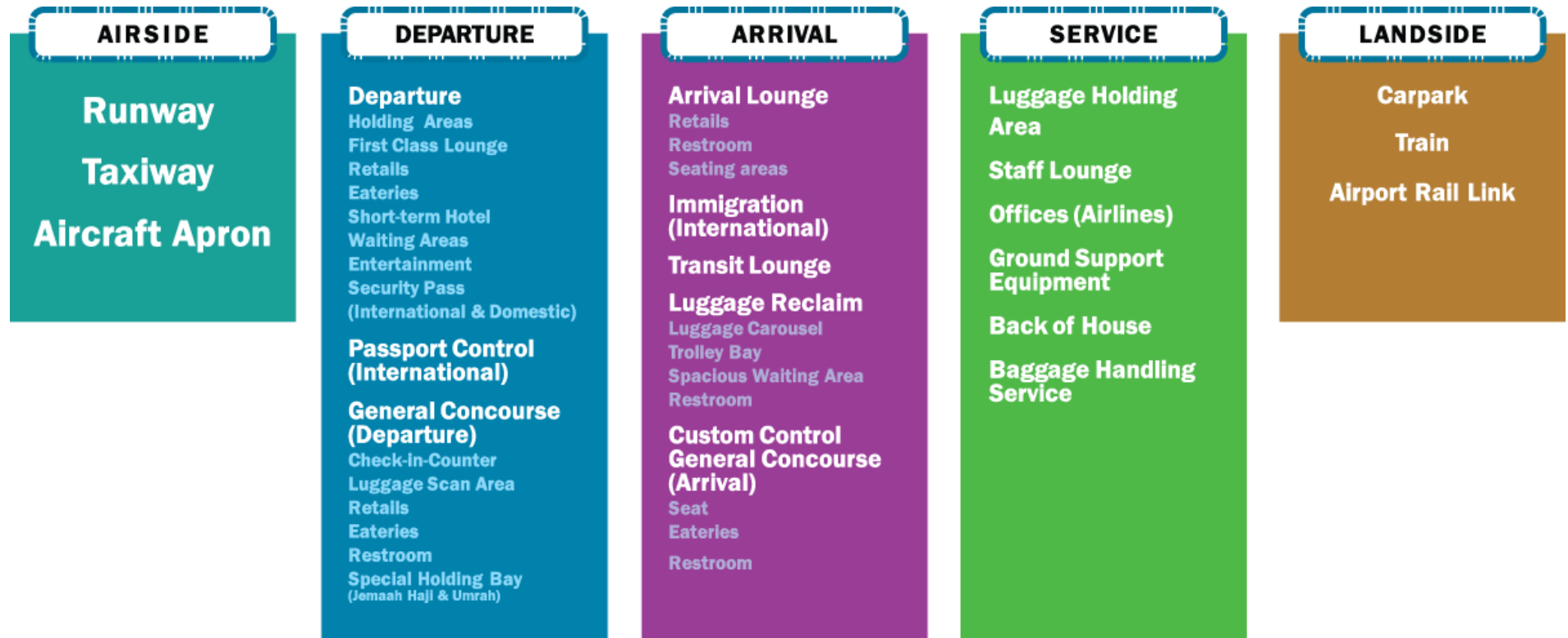
SOOK AIRPORT



CONCEPTUAL LAYOUT

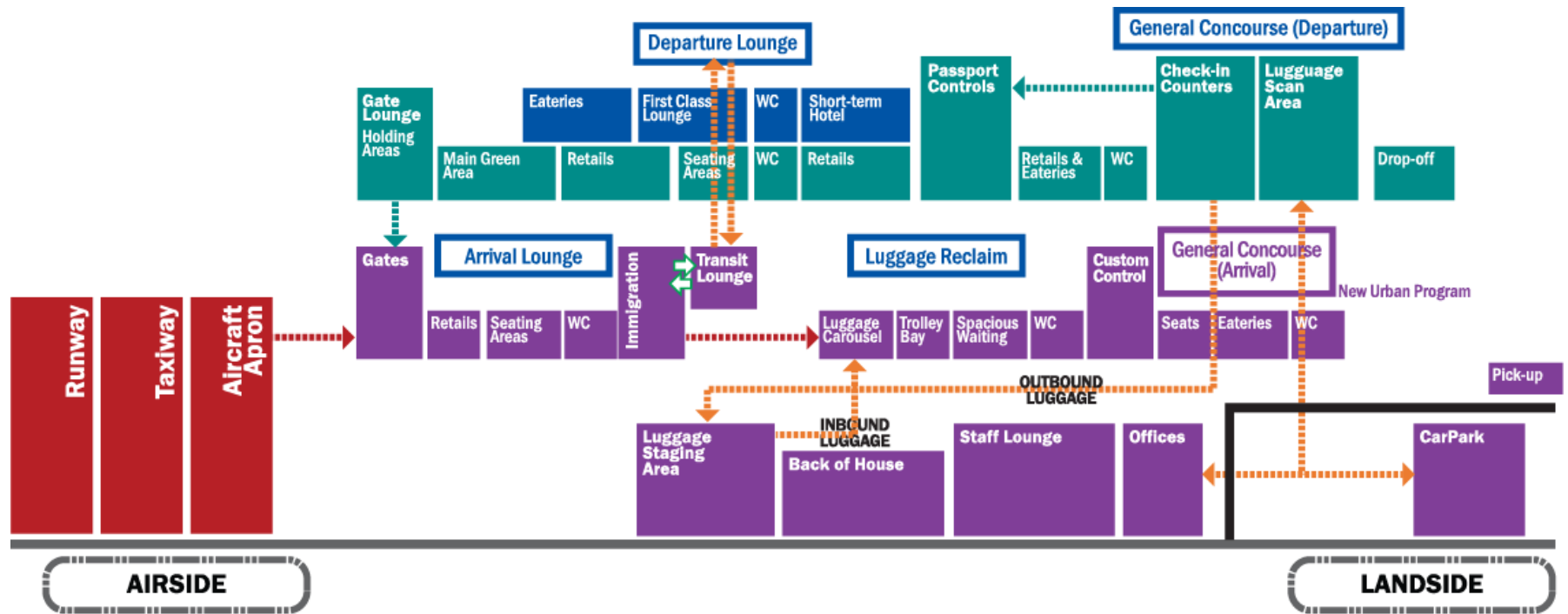
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TERMINAL COMPONENTS

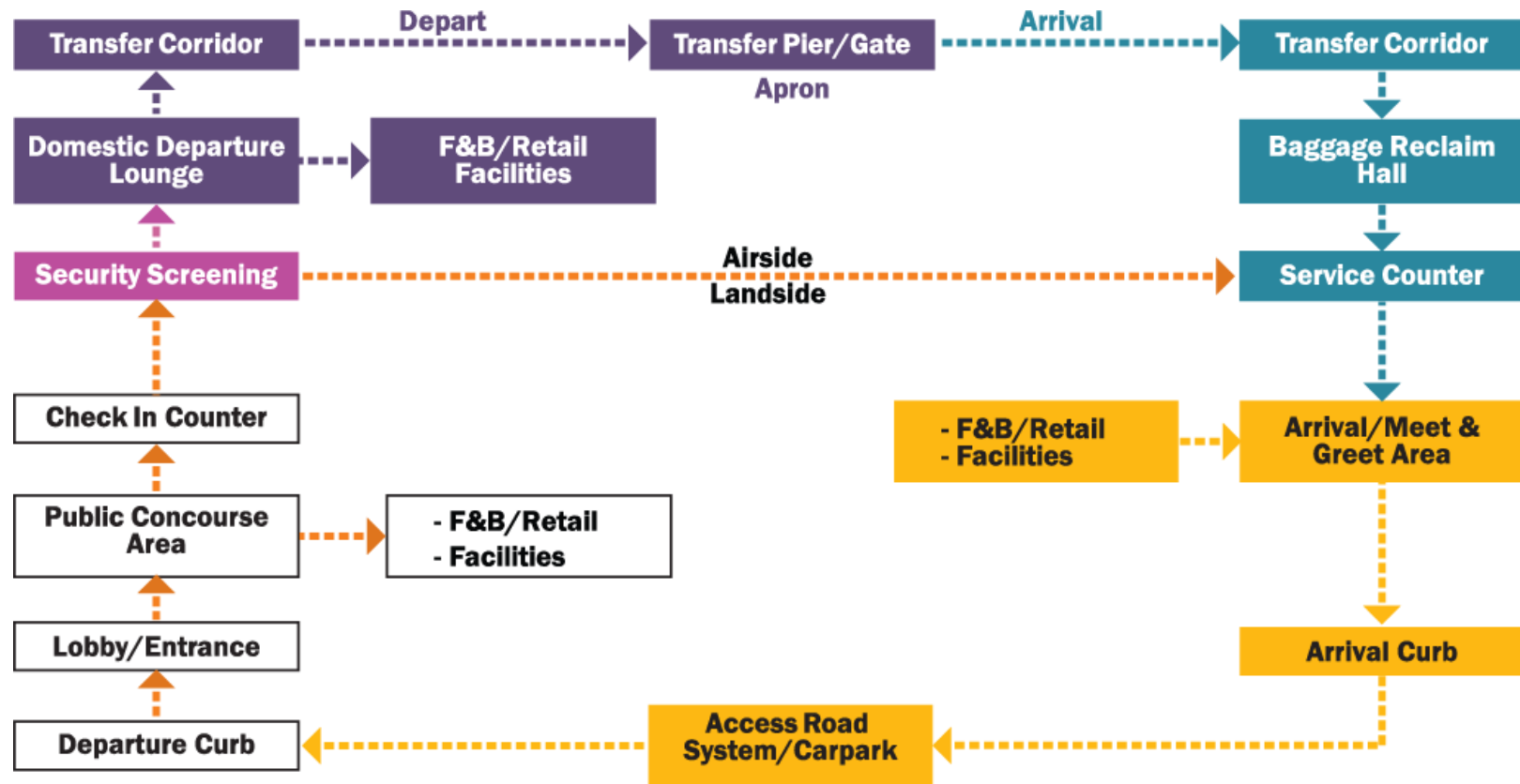
LAND BELOW THE WIND
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COMPONENTS

LAND BELOW THE WIND

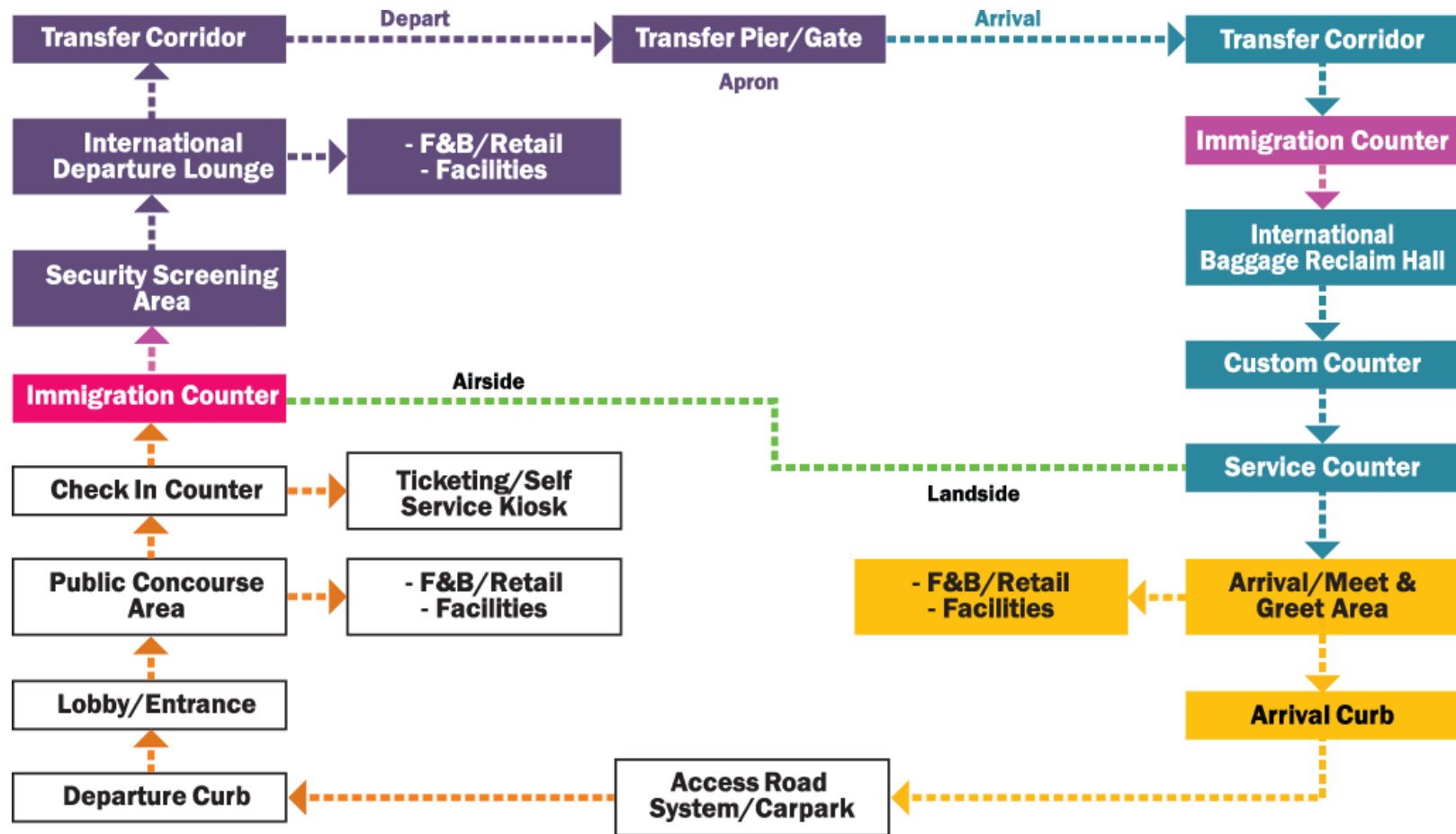
SOOK AIRPORT



DOMESTIC PASSENGER FLOW

LAND BELOW THE WIND

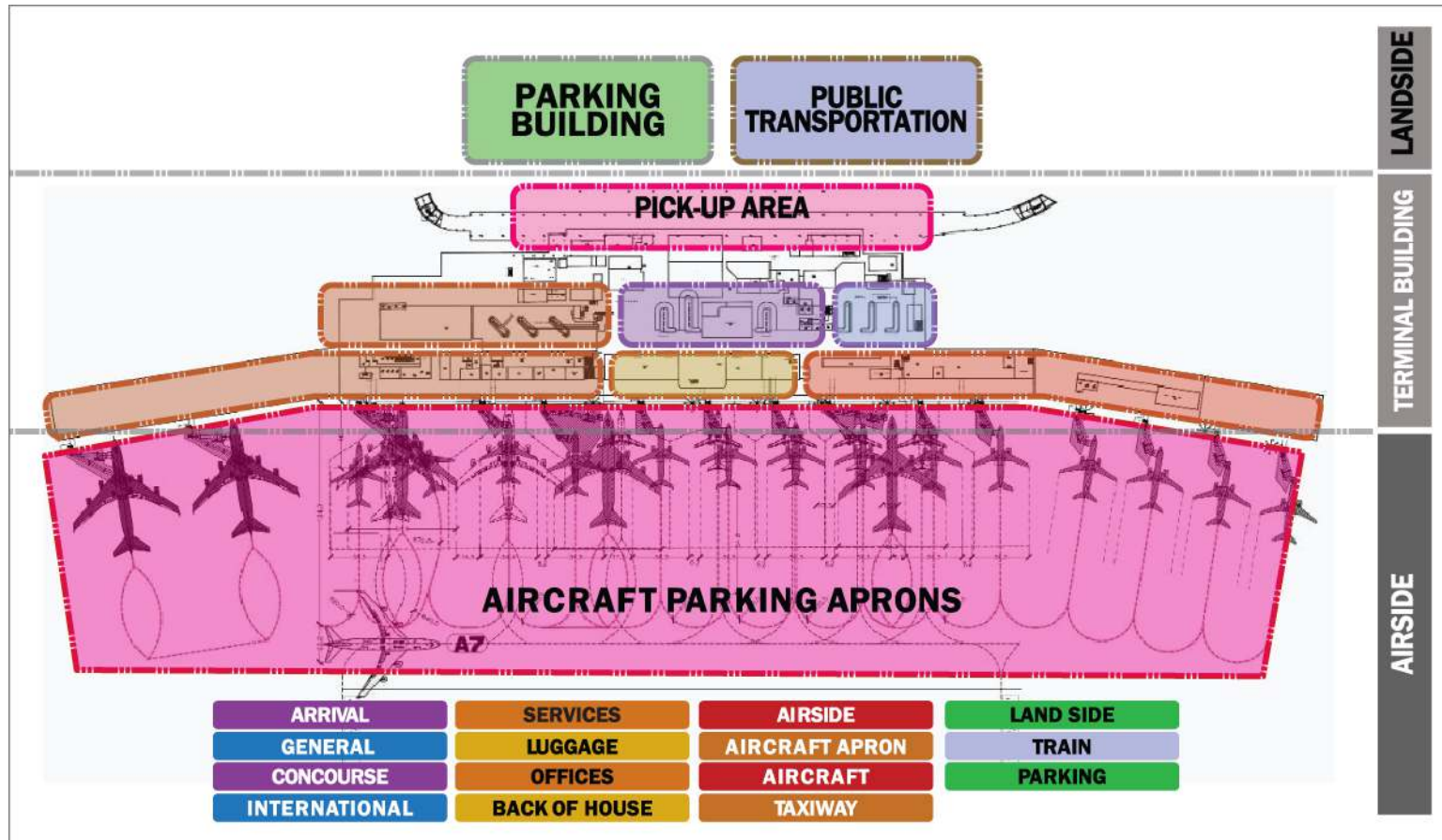
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INTERNATIONAL PASSENGER FLOW

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SOOK AIRPORT

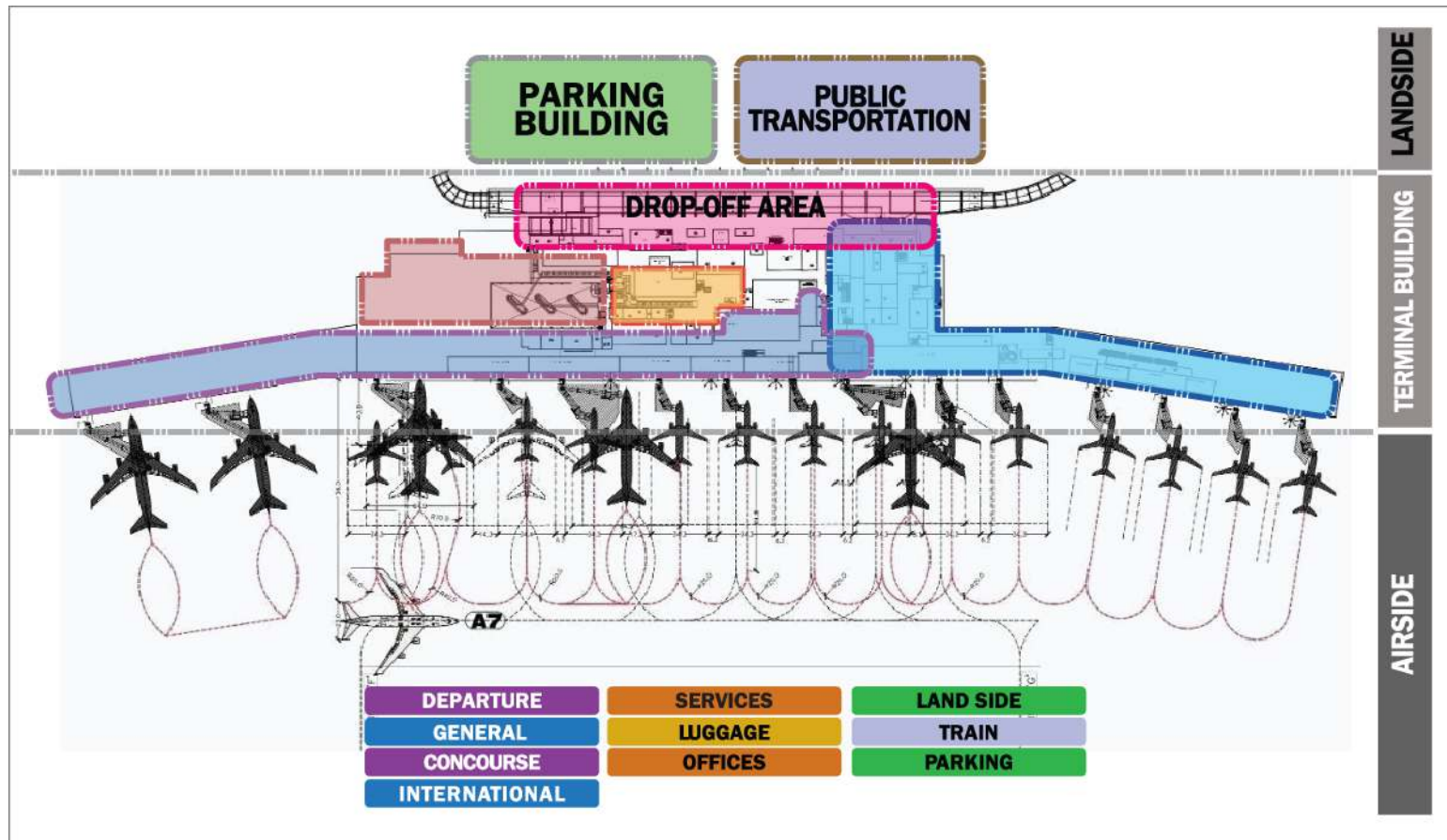


MAIN TERMINAL LEVEL 1

INTERNAL ZONING

LAND BELOW THE WIND

SOOK AIRPORT

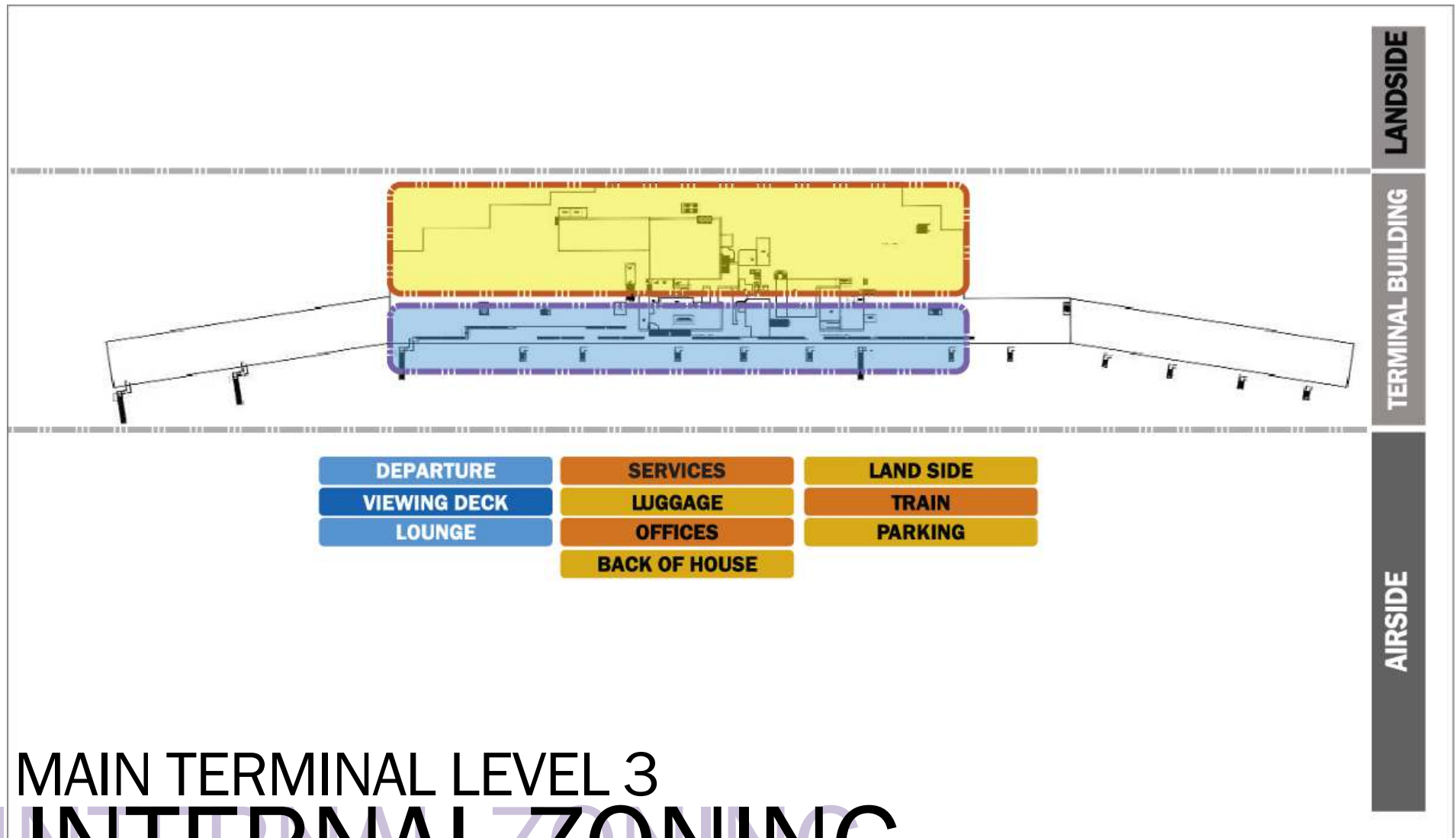


MAIN TERMINAL LEVEL 2

INTERNAL ZONING

LAND BELOW THE WIND

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LAND BELOW THE WIND

SOOK AIRPORT



AIRSIDE VIEW 1

CONCEPTUAL PERSPECTIVE

LAND BELOW THE WIND

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AIRSIDE VIEW 2

CONCEPTUAL PERSPECTIVE

LAND BELOW THE WIND

SOOK AIRPORT

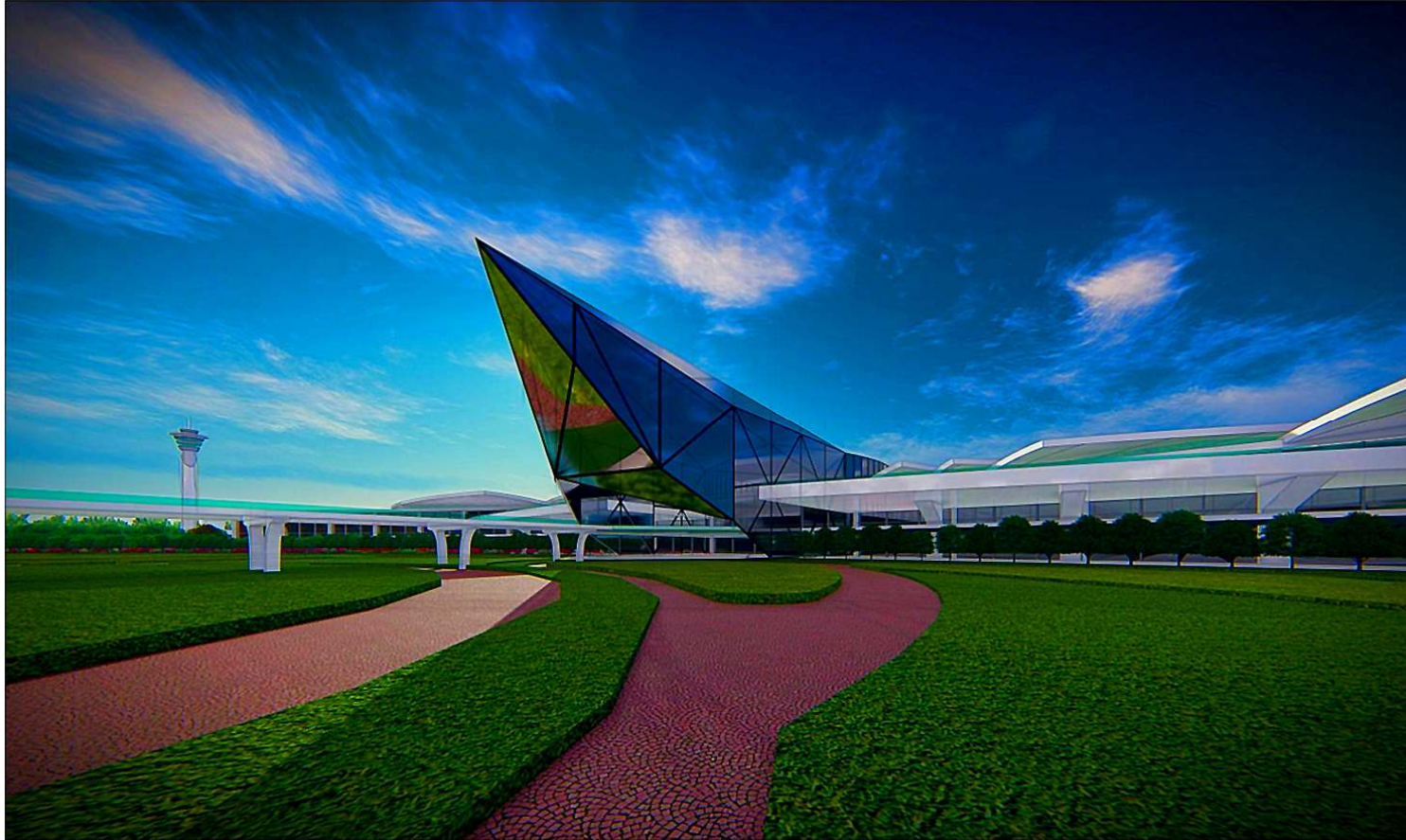


LANDSIDE VIEW 1

CONCEPTUAL PERSPECTIVE

LAND BELOW THE WIND

SOOK AIRPORT



LANDSIDE VIEW 2

CONCEPTUAL PERSPECTIVE

LAND BELOW THE WIND

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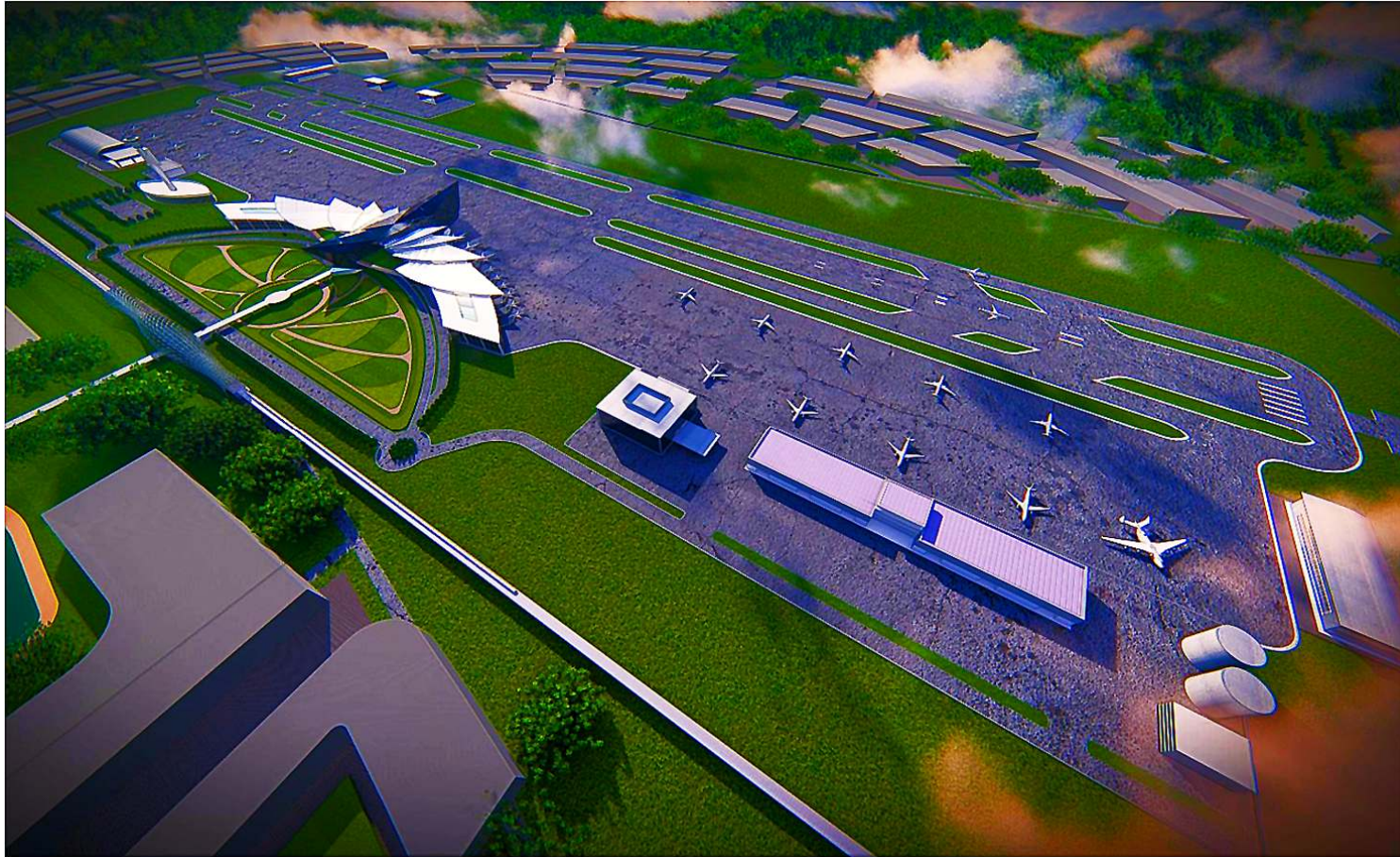


AERIAL VIEW VIEW 1

CONCEPTUAL PERSPECTIVE

LAND BELOW THE WIND

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AERIAL VIEW VIEW 2

CONCEPTUAL PERSPECTIVE