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Building *Nunavut* Together  
*Nunavut* liuqatigiingniq  
Bâtir le *Nunavut* ensemble

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Department of Economic Development & Transportation  
Pivalliyuliyiqikkut Ingilrayuliyiyitkullu  
Ministère du Développement économique et des Transports

# Iqaluit International Airport

Northern Air Transport Association

April, 2015

# Operations

- Transferred Certificate to Nunavut Airport Services Ltd effective July 21, 2015
- 30 year term beginning 2017
- GN continues in ownership role
  - Provides project oversight (\$300 million)
  - Ensures airport is developed and operated in public interest
  - Commercial development & Property Management
  - Setting of fees
  - Initiatives outside IIAIP

# SSALR

- Not advanced in 2014
- Seabed Geotechnical June 2015
- Consultations Summer early fall 2015
  - Navigable Waters
  - Fisheries & Oceans
  - Hunters & Trappers Association
- Design Complete fall 2015
- ACAP Submission

# Airport Tariff

- Planned to implement January 01, 2015
- No change in Lang or Parking Fees 2015
- Collection of statistics
  - Non-Disclosure Agreement
  - GN Directive on protection and sharing of data
  - Storage on secure password protected server
- Critical information for planning and development purposes

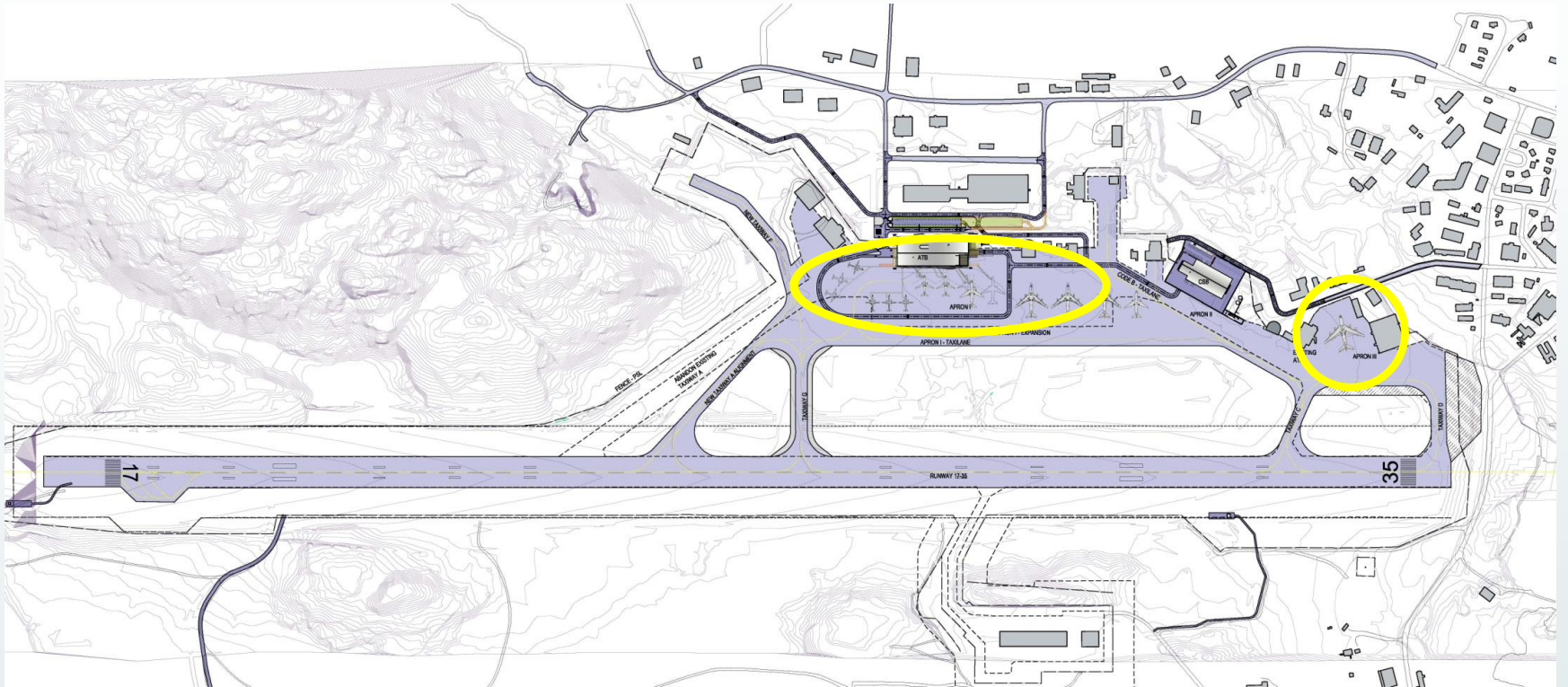
# Airport Lands

- Several small parcels of land from City to complete IIAIP.
- Development of additional airport commercial development lands.
- West 40 Lands transferred to City.
- Downtown Lands transferred to City.

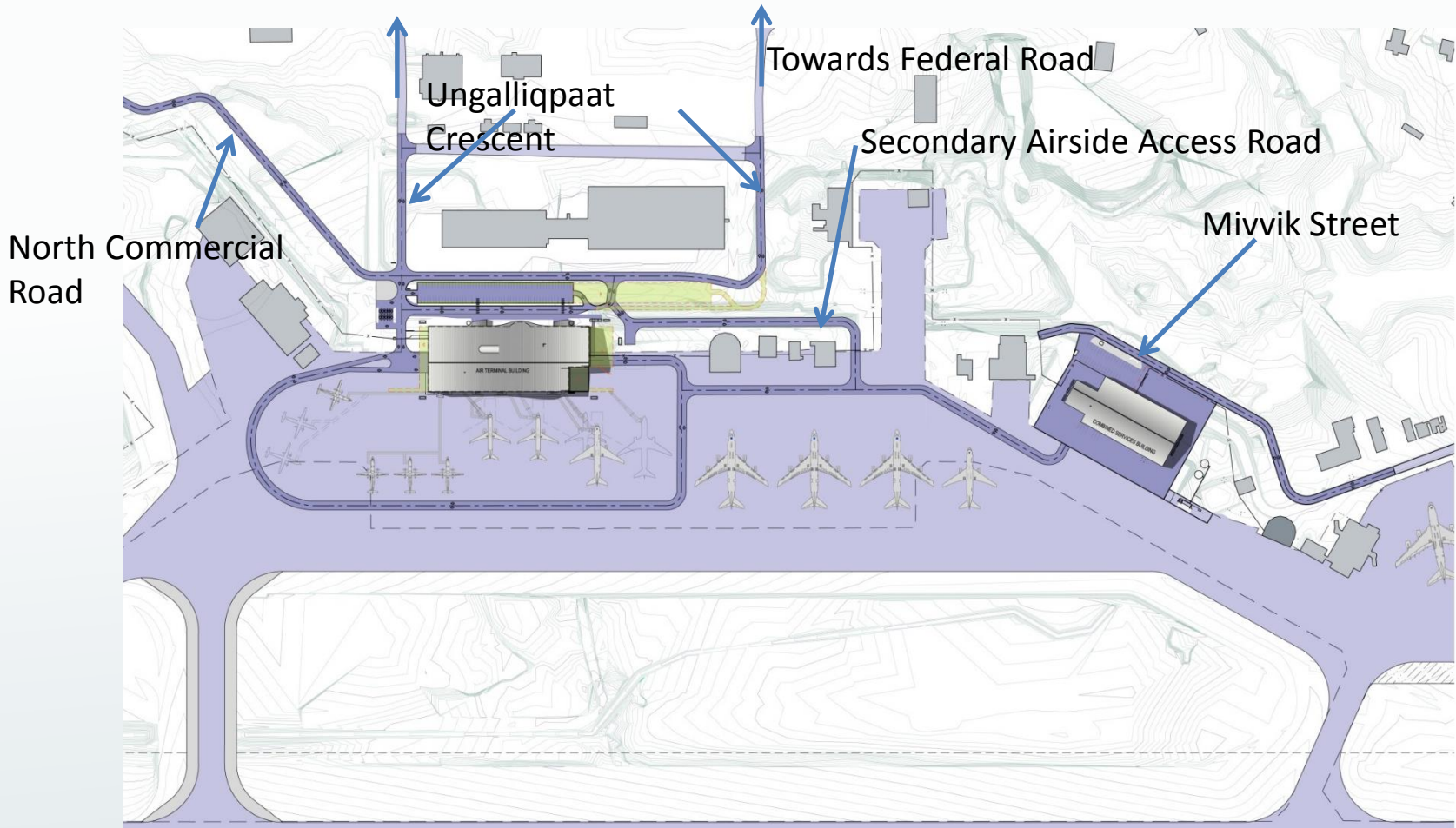
# Iqaluit International Airport Improvement Project (IIAIP)

- Airport Layout
- Design Considerations
- Air Terminal Building
- Schedule for Completion
- Operational Constraints
- Questions

# Airport Layout

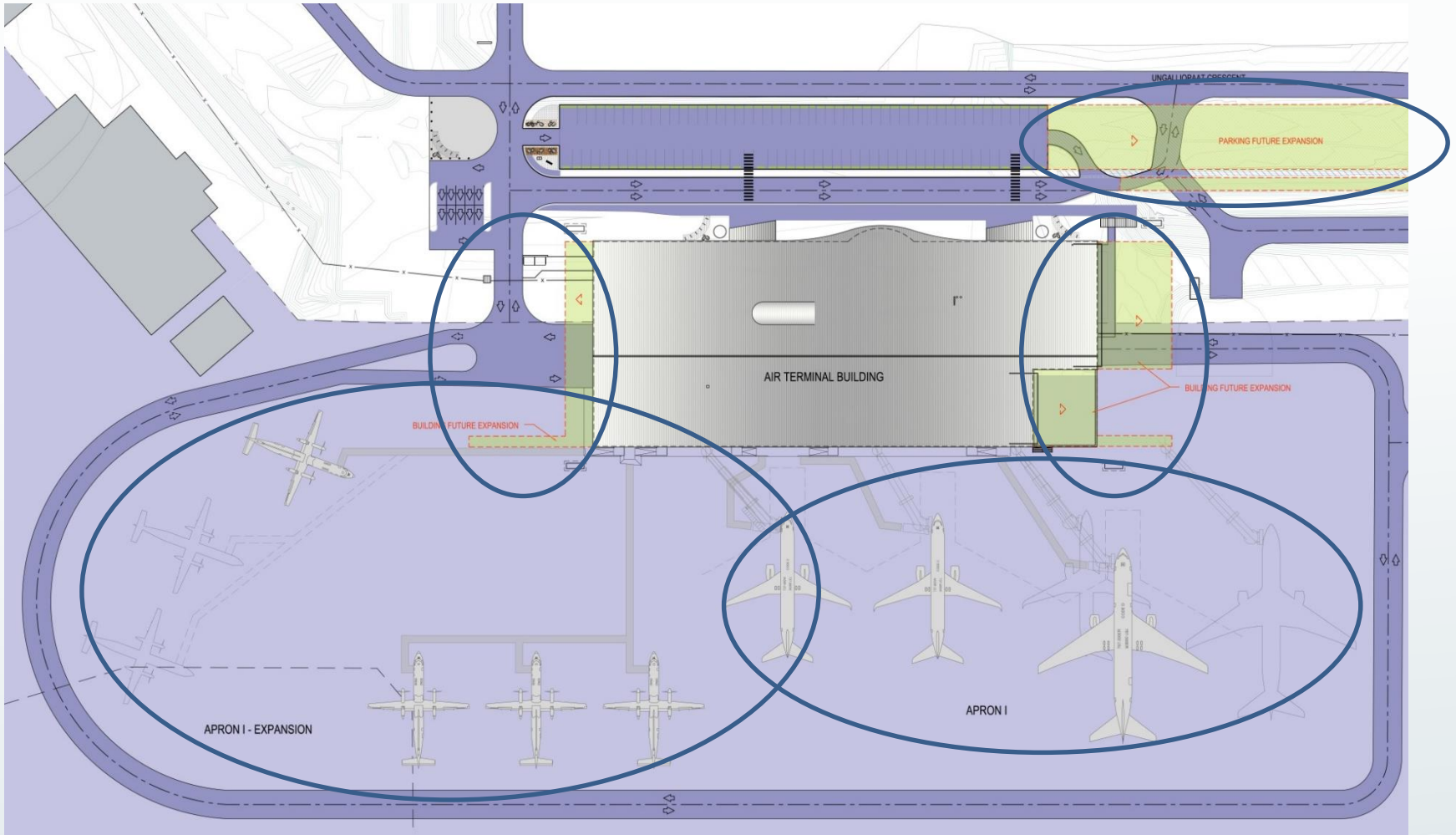


# Airport Layout





# Airport Layout



# Design Development

## **Six form determinants:**

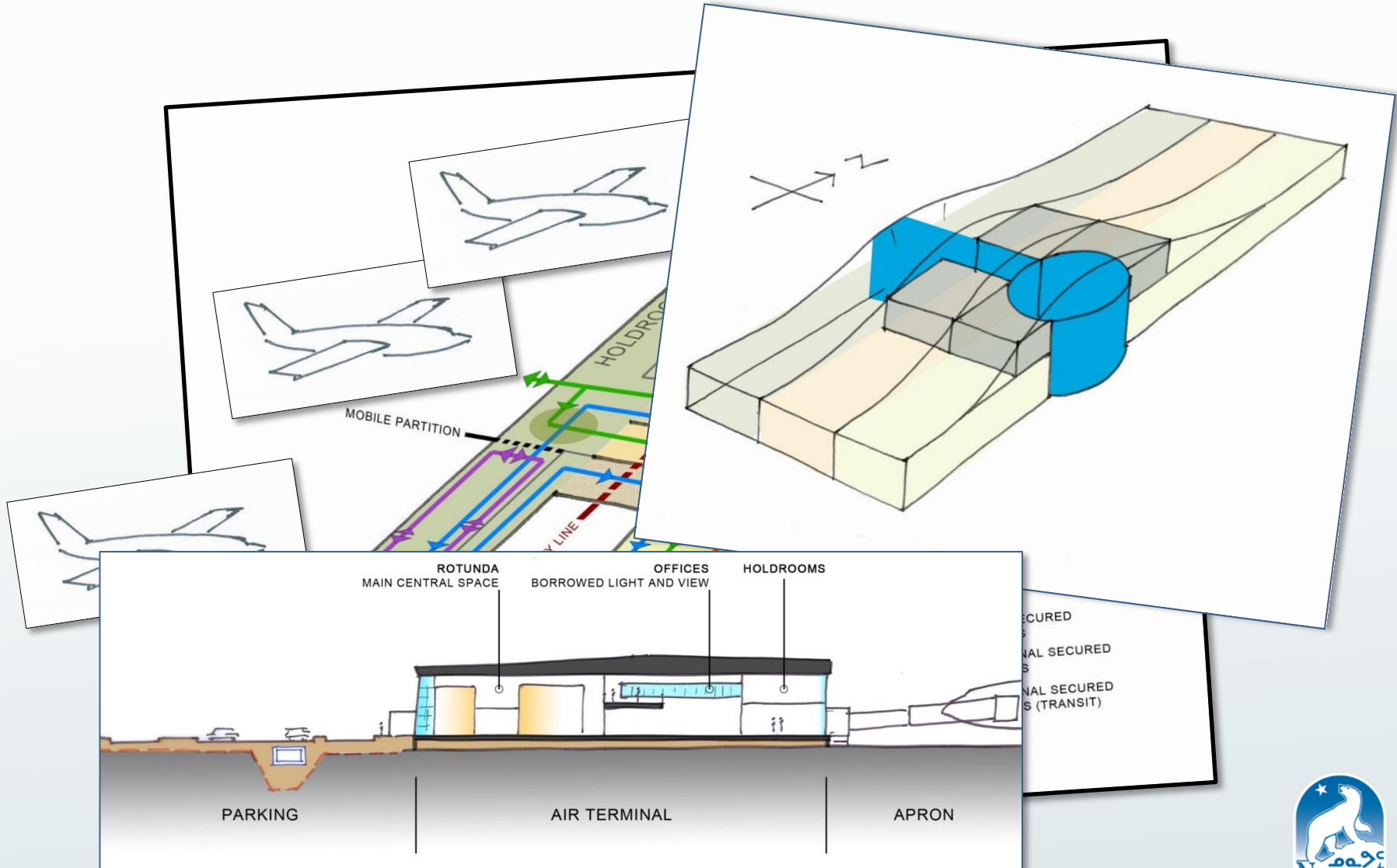
1. Phased development,
2. Walking distances,
3. Clear wayfinding,
4. Public realm,
5. Climate, and
6. Cost effectiveness



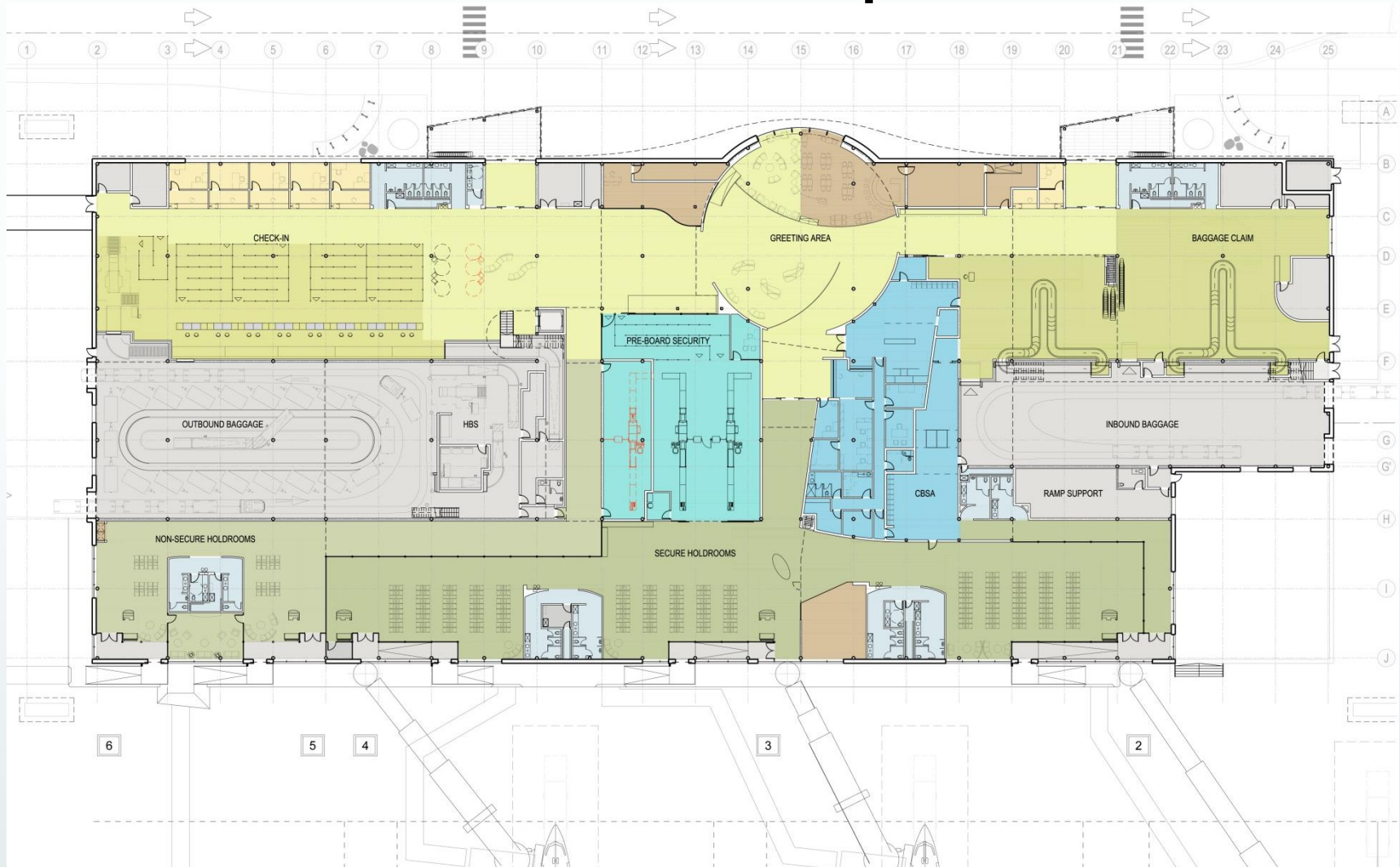
## **Seven principles:**

1. Gateway to Nunavut,
2. Pax experience, operational efficiency and safety,
3. Expansion, flexibility
4. Architectural presence,
5. Life cycle, sustainability, energy efficiency,
6. Climate, and
7. Accessibility

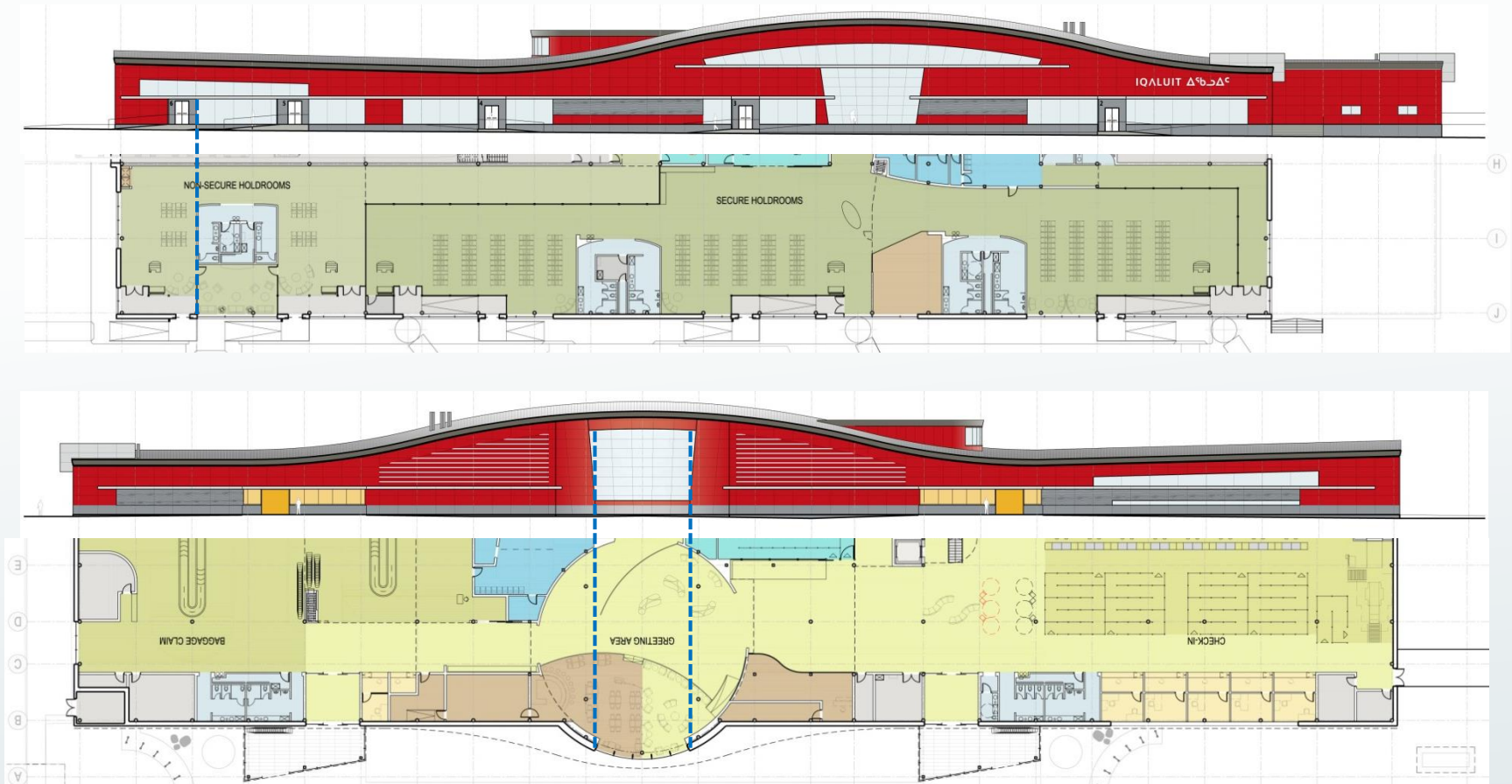
# Design Development



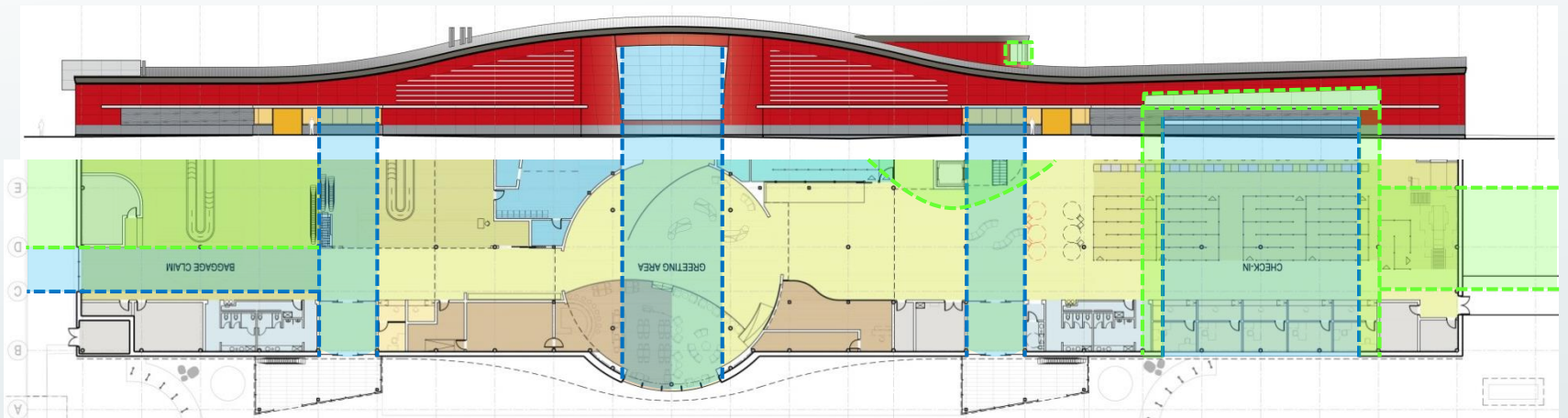
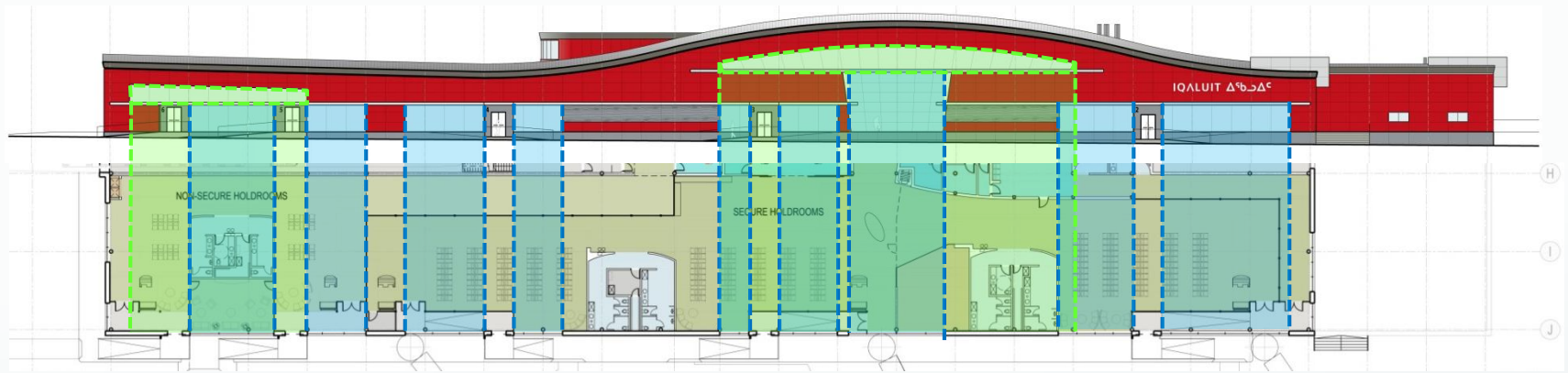
# ATB Floorplan



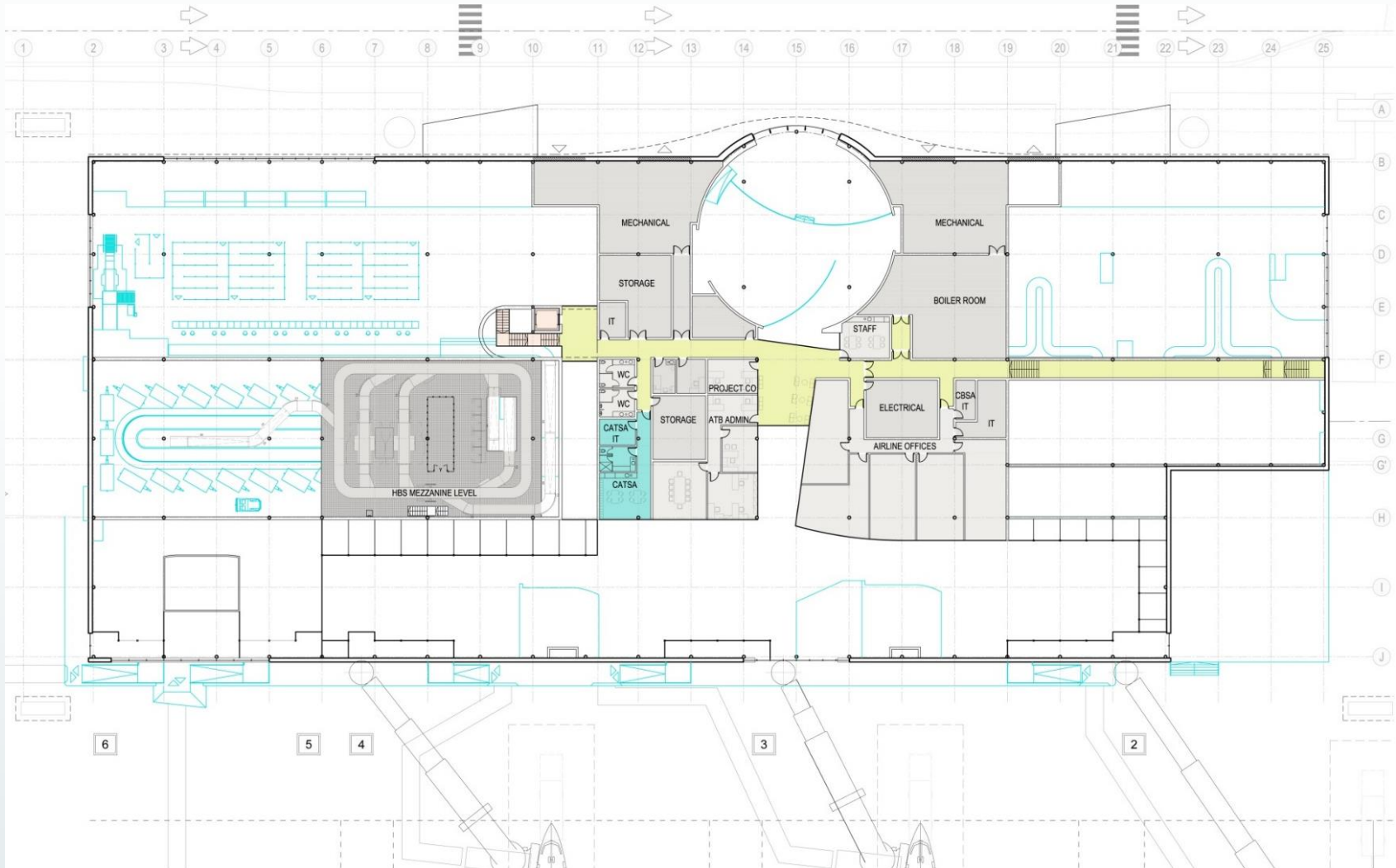
# ATB Elevations



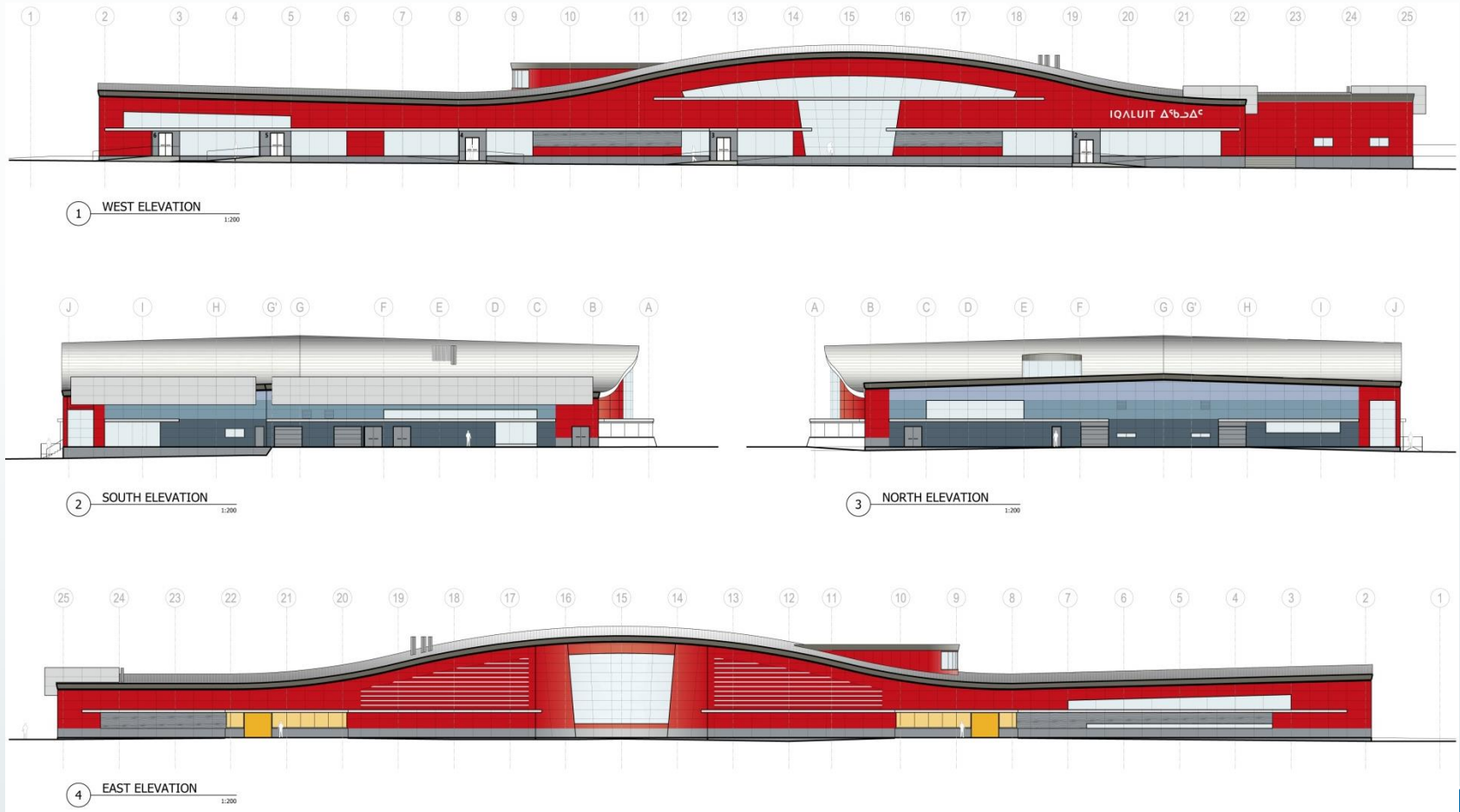
# Use of Natural Light



# ATB Floorplan (2<sup>nd</sup> Floor)

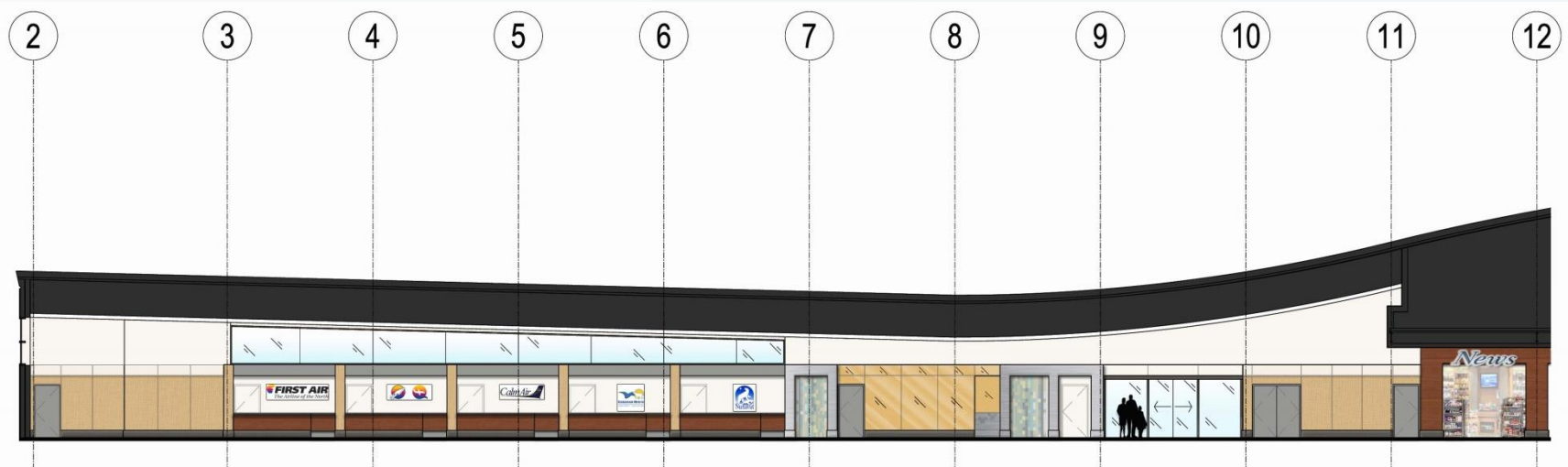
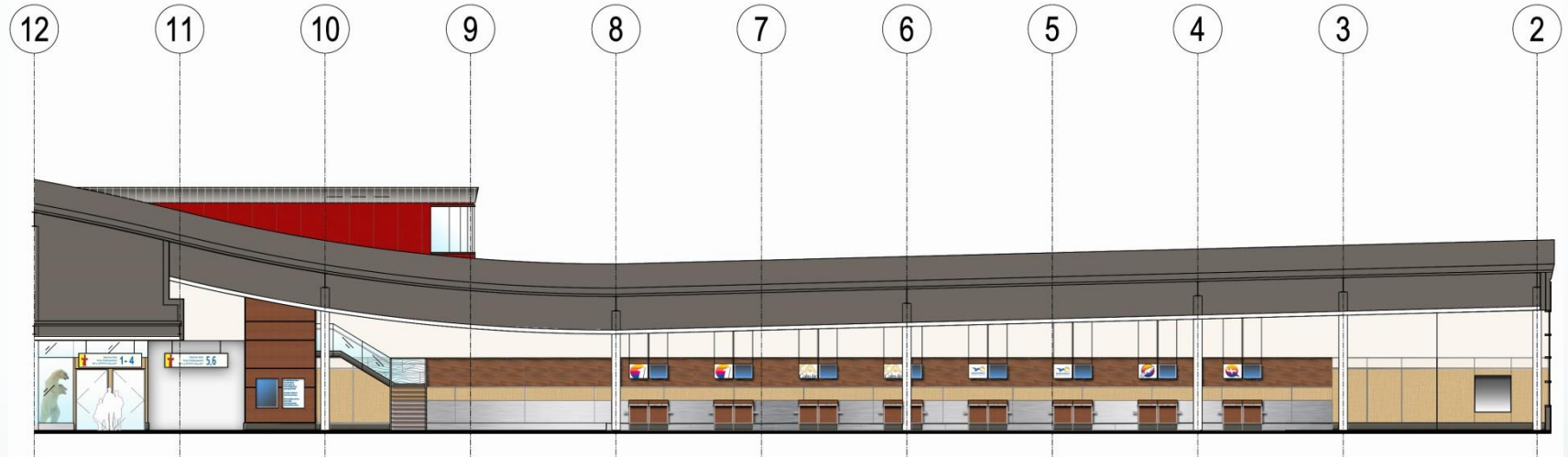


# ATB Elevations





# Interior Elevations



# Landside



# Airside



# Secure Holdroom



# Rotunda



# Wayfinding



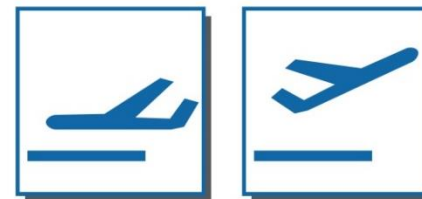
IQUALUIT INTERNATIONAL AIRPORT  
AÉROPORT INTERNATIONAL D'IQUALUIT  
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A rectangular sign with a yellow background on the left containing a red totem pole icon. The rest of the sign has a white background with blue text. The text is in English, French, and Inuktitut.

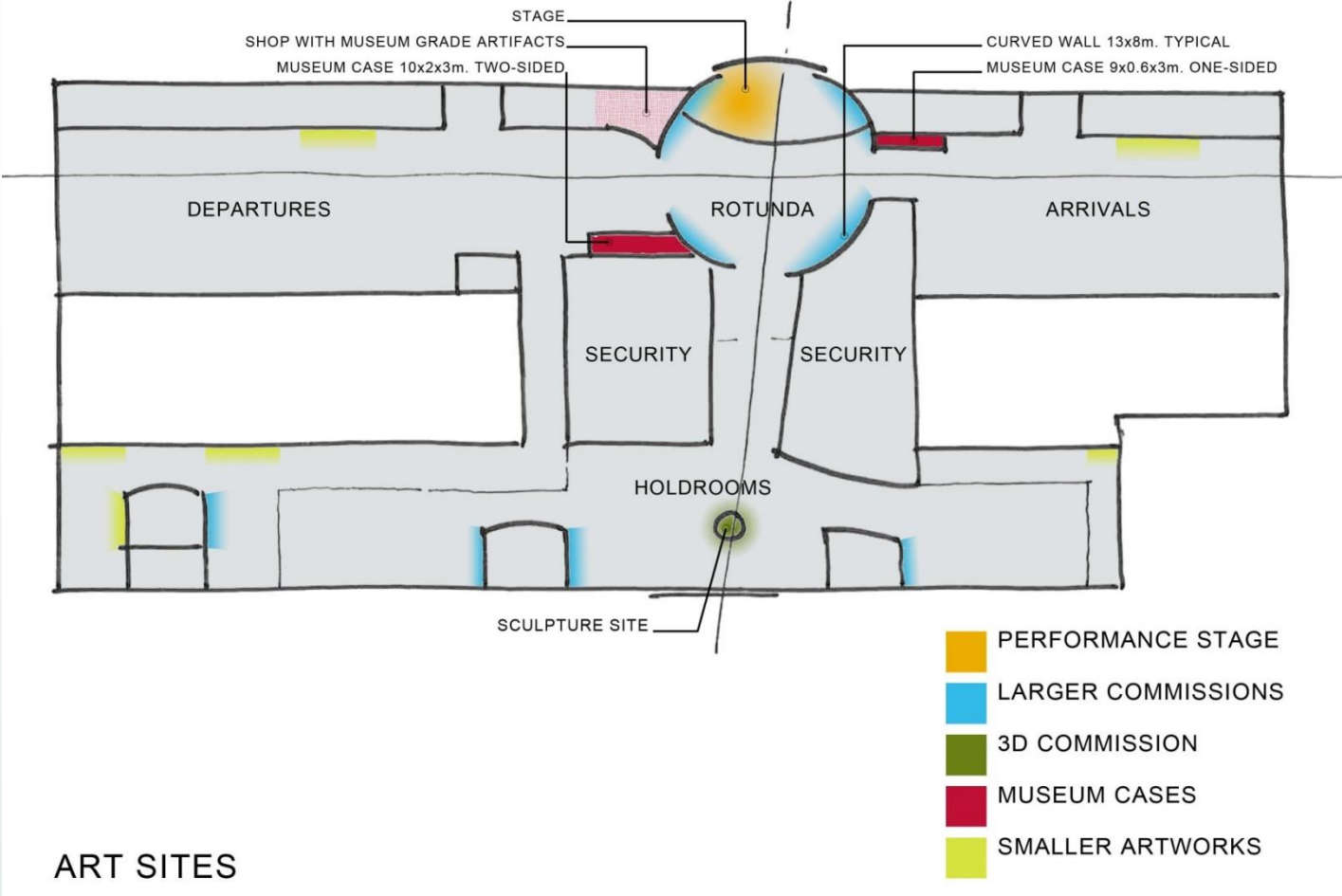
Departure Gates  
Portes d'embarquement  
ᐱᐃᑦᑕᑎᐱᑦᑕᑦᑕ ᐱᐃᑦᑕᑎᐱᑦᑕ  
5,6 →

A rectangular sign with a yellow background on the left containing a red totem pole icon. The rest of the sign has a white background with blue text. It indicates the direction to departure gates 5 and 6.

3  
Monitor

A rectangular sign with a yellow background on the left containing a red totem pole icon. To its right is a white background with a large blue number '3'. Further right is a blue square with the word 'Monitor' written in white.

# Art Locations



ART SITES

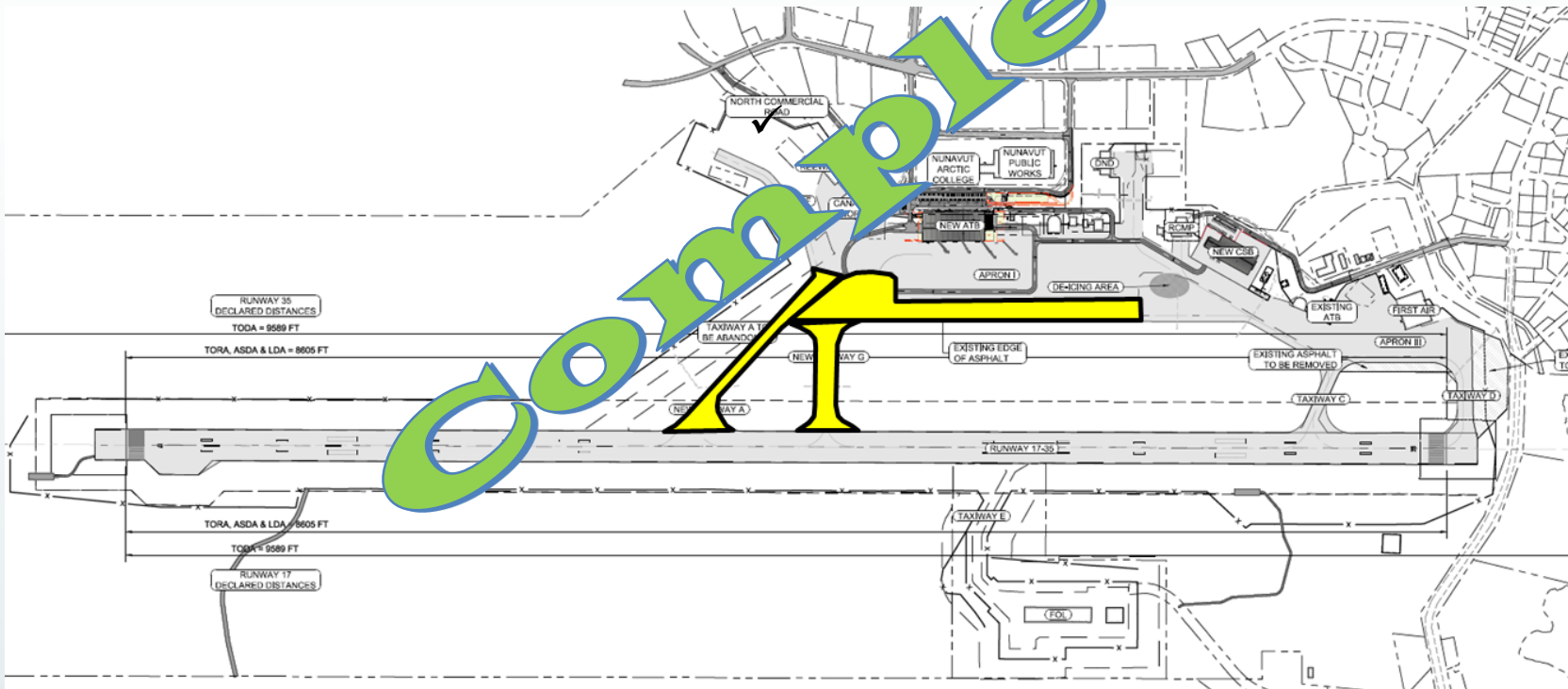
# Project Schedule

Description	Date
Selection of Preferred Proponent	July 1, 2013
Signature of Early Works Agreement	Summer, 2013
Design and Users Consultation Process / Development Permit application	Summer, 2013
Development Permit Application	Summer 2013
Submission of Initial Project Schedule	August 12, 2013
Financial Close Date	September 13, 2013
Submission – Schematic Design	October 19, 2013
Civil and buildings construction Start	Mai 2014
New ATB/ CSB – Power On	September 2016
Interim Service Commencement	August 2017
Service Commencement	December 2017



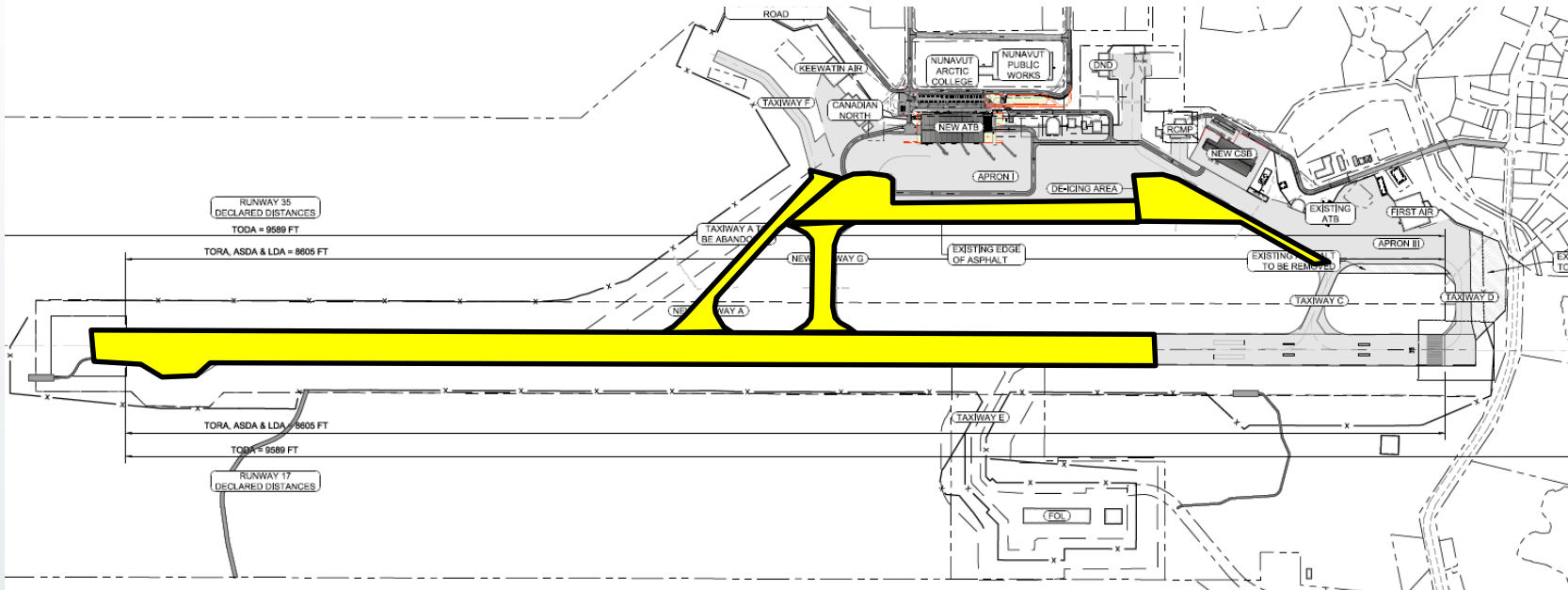
# 2014 Civil Works

- Apron 1 Extension: Excavate, backfill and install part of gravel structure
- New Taxiway A & G: Excavate, backfill and install part of gravel structure
- ATB and CSB: Excavate, install thermosyphons



# 2015 Civil Works

- Runway: repair failed areas, leaving at least 6000'X100' available at all times
- Runway: first lift of asphalt on northern 2/3
- Apron 1 Extension: base and final lift of asphalt
- Taxiway A & G: base and final lift of asphalt
- Taxiway B: excavate, backfill, base and asphalt
- ATB and CSB: erect steel structure, pour concrete slabs, close building envelope

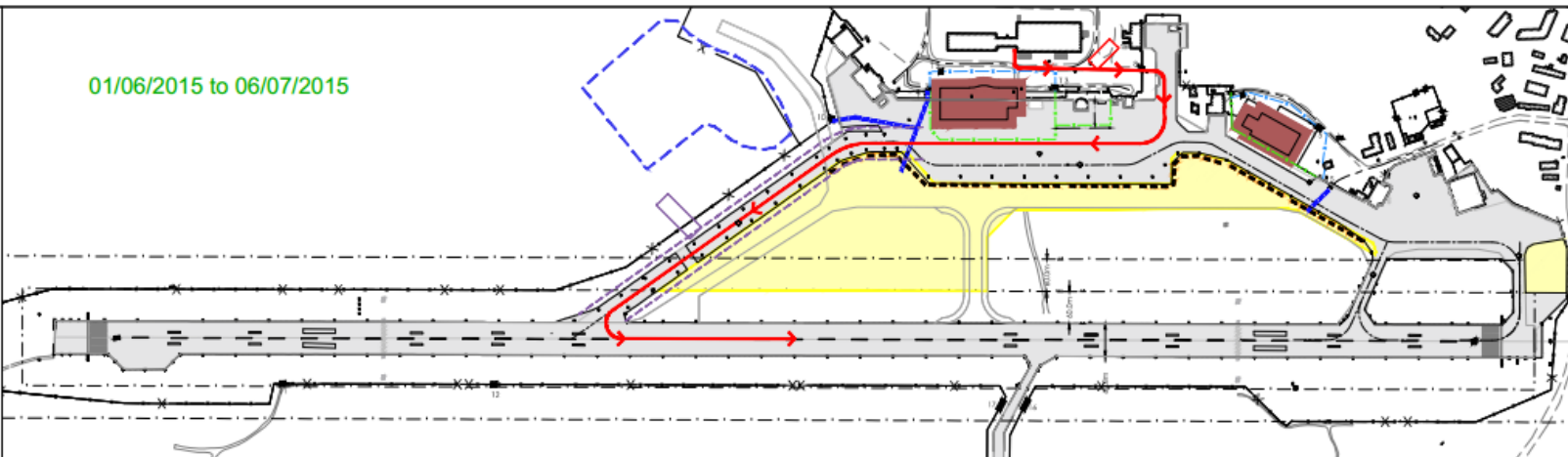


**STAGE 2015-1 DAY**

1. DAY TIME CONSTRUCTION HOURS
2. RUNWAY 16-34: OPEN, NO RESTRICTION
3. TAXI A: OPEN
4. TAXI B: OPEN
5. TAXI C: OPEN
6. TAXI D: OPEN
7. TAXI E: OPEN
8. TAXI F: NOT BUILT
9. TAXI G: NOT BUILT
10. APRON I: OPEN WITH RESTRICTION: NEW TEMPORARY TAXILANE CODE D
11. APRON II: OPEN
12. APRON III: OPEN

01/06/2015 to 06/07/2015

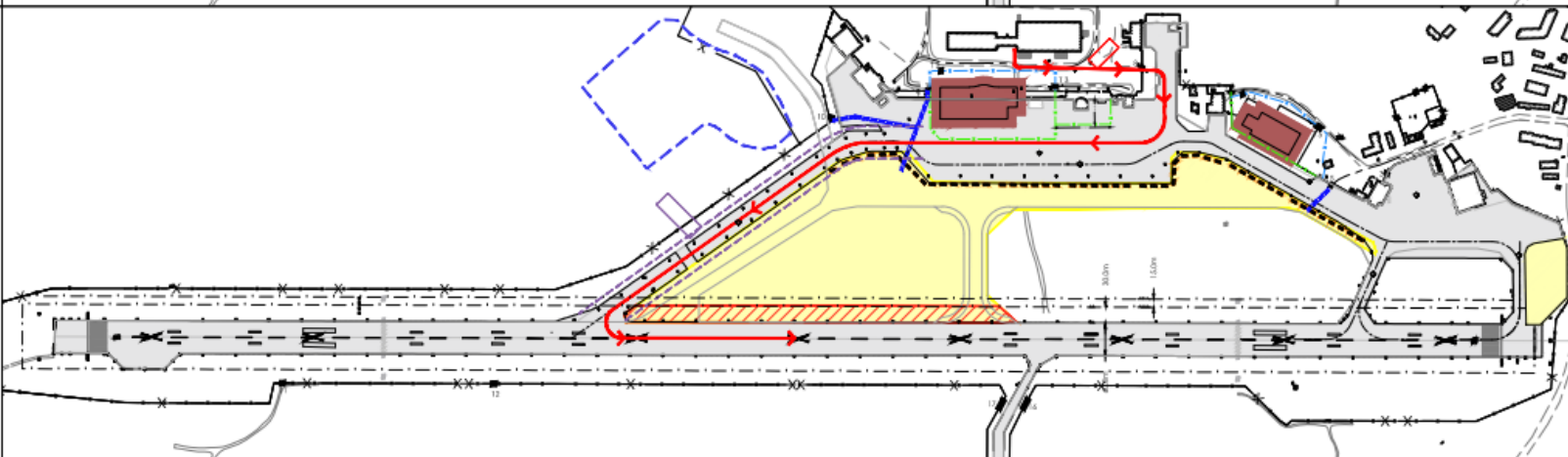
DECLARED DISTANCES	RUNWAY	
	16	34
TORA	8 605	8 605
TODA	9 589	9 589
ASDA	8 605	8 605
LDA	8 605	8 605



**STAGE 2015-1 NIGHT**

1. NIGHT TIME CONSTRUCTION HOURS
2. RUNWAY 16-34: CLOSED
- 2.1. RUNWAY 34 ILS U/S
- 2.2. RUNWAY 16 PAPI U/S
- 2.3. RUNWAY 16/34 APPROACH LIGHTING U/S
- 2.4. RUNWAY CODE 4N1 FOR MEDEVAC
3. TAXI A: OPEN
4. TAXI B: OPEN
5. TAXI C: OPEN
6. TAXI D: OPEN
7. TAXI E: OPEN
8. TAXI F: NOT BUILT
9. TAXI G: NOT BUILT
10. APRON I: OPEN WITH RESTRICTION: NEW TEMPORARY TAXILANE CODE D
11. APRON II: OPEN
12. APRON III: OPEN

DECLARED DISTANCES	RUNWAY	
	16	34
TORA	8 605	8 605
TODA	9 589	9 589
ASDA	8 605	8 605
LDA	8 605	8 605



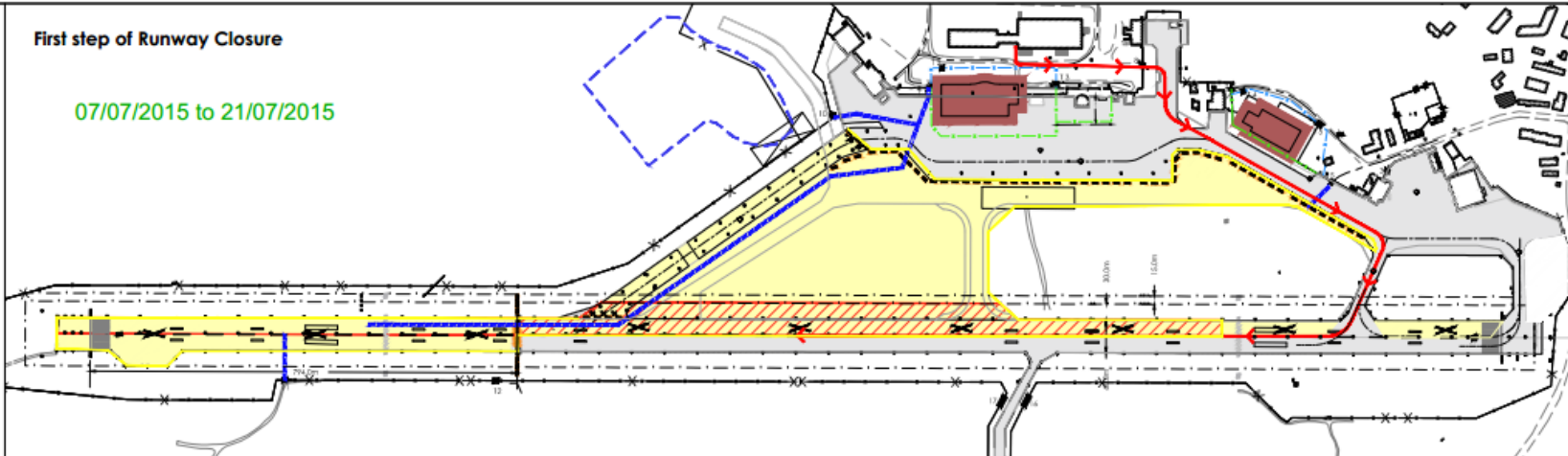
**STAGE 2015-2 during DAY**

1. DAY TIME CONSTRUCTION HOURS
2. RUNWAY 16-34: PARTIALLY CLOSED
  - 2.1. RUNWAY 34 ILS U/S
  - 2.2. RUNWAY 16 PAPI U/S
  - 2.3. RUNWAY 16/34 APPROACH LIGHTING U/S
- 2.4. THRESHOLD RELOCATED 2,605ft (794m)
- 2.5. EAST SIDE OF RUNWAY CLOSED
- 2.6. REVISED RUNWAY WIDTH 30m
- 2.7. RUNWAY CODE 4N
3. TAXI A: CLOSED
4. TAXI B: OPEN
5. TAXI C: OPEN
6. TAXI D: OPEN
7. TAXI E: OPEN
8. TAXI F: NOT BUILT
9. TAXI G: NOT BUILT
10. APRON I: OPEN WITH RESTRICTION: NEW TEMPORARY TAXILANE CODE D
11. APRON II: OPEN
12. APRON III: OPEN

DECLARED DISTANCES	RUNWAY	
	16	34
TORA	6 000	6 000
TODA	6 984	6 984
ASDA	6 000	6 000
LDA	6 000	6 000

**First step of Runway Closure**

07/07/2015 to 21/07/2015

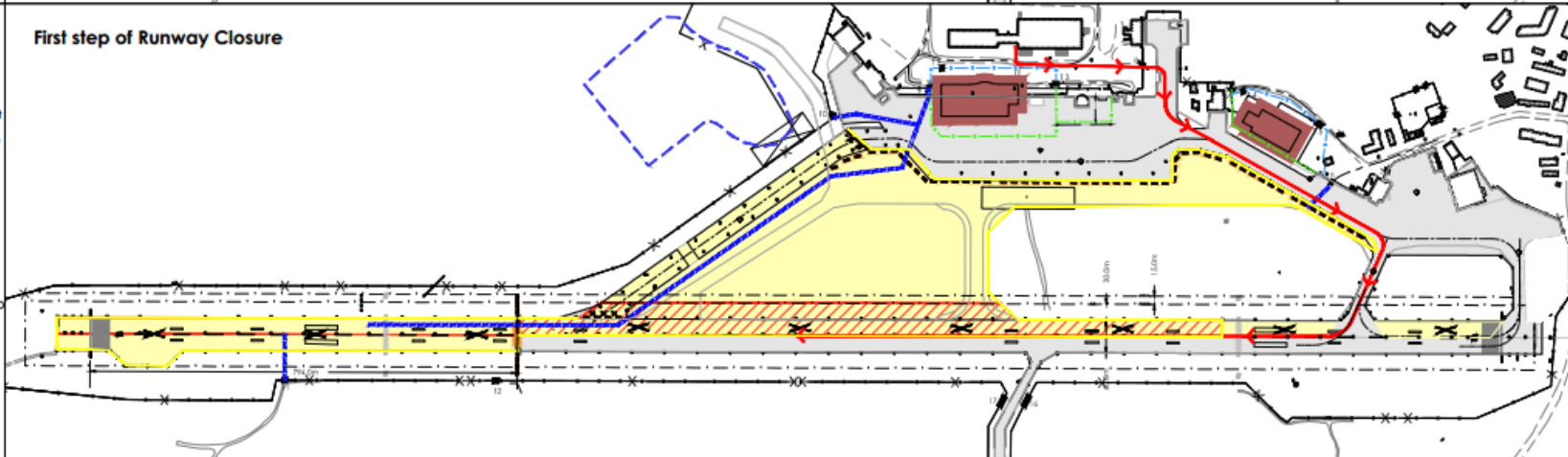


**STAGE 2015-2 during NIGHT**

1. NIGHT TIME CONSTRUCTION HOURS
2. RUNWAY 16-34: CLOSED
  - 2.1. RUNWAY 34 ILS U/S
  - 2.2. RUNWAY 16 PAPI U/S
  - 2.3. RUNWAY 16/34 APPROACH LIGHTING U/S
- 2.4. THRESHOLD RELOCATED 2,605ft (794m)
- 2.5. EAST SIDE OF RUNWAY CLOSED
- 2.6. REVISED RUNWAY WIDTH 30m
- 2.7. RUNWAY CODE 4N FOR MEDEVAC
3. TAXI A: CLOSED
4. TAXI B: OPEN
5. TAXI C: OPEN
6. TAXI D: OPEN
7. TAXI E: OPEN
8. TAXI F: NOT BUILT
9. TAXI G: NOT BUILT
10. APRON I: OPEN WITH RESTRICTION: NEW TEMPORARY TAXILANE CODE D
11. APRON II: OPEN
12. APRON III: OPEN

DECLARED DISTANCES	RUNWAY	
	16	34
TORA	6 000	6 000
TODA	6 984	6 984
ASDA	6 000	6 000
LDA	6 000	6 000

**First step of Runway Closure**

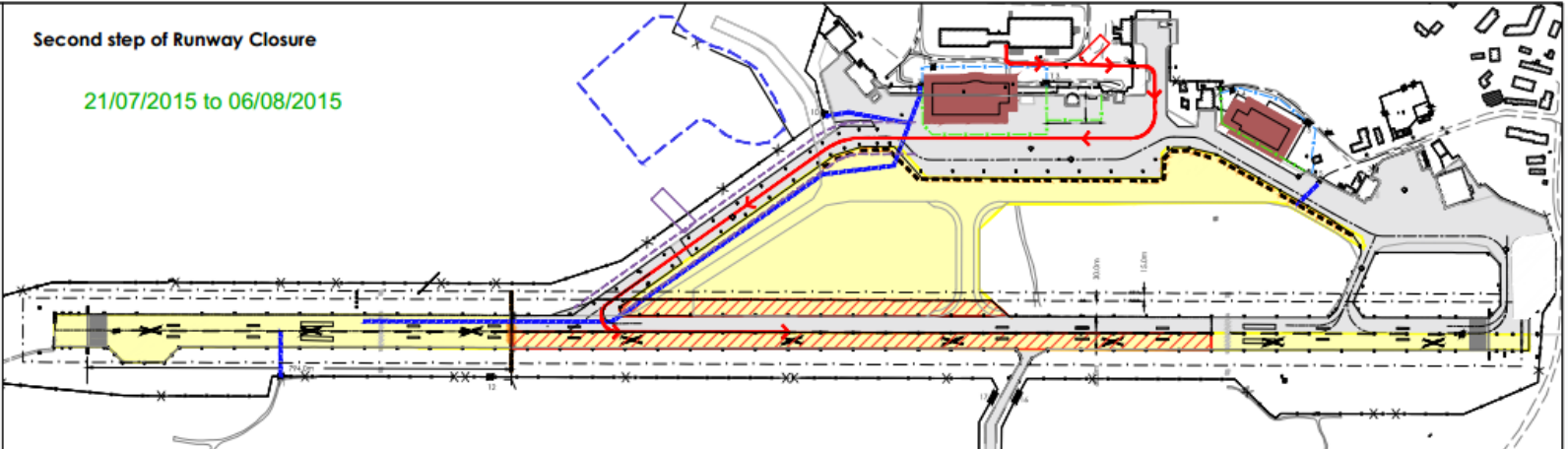


- STAGE 2015-3 during DAY**
- DAY TIME CONSTRUCTION HOURS
  - RUNWAY 16-34: PARTIALLY CLOSED
    - RUNWAY 34 ILS U/S
    - RUNWAY 16 PAPI in service
    - RUNWAY 16/34 APPROACH LIGHTING U/S
    - THRESHOLD RELOCATED 2,605ft (794m)
    - WEST SIDE OF RUNWAY CLOSED
    - REVISED RUNWAY WIDTH 30m
    - RUNWAY CODE 4N1
  - TAXI A: OPEN
  - TAXI B: OPEN
  - TAXI C: OPEN
  - TAXI D: OPEN
  - TAXI E: CLOSED
  - TAXI F: NOT BUILT
  - TAXI G: NOT BUILT
  - APRON I: OPEN WITH RESTRICTION: NEW TEMPORARY TAXILANE CODE D
  - APRON II: OPEN
  - APRON III: OPEN

DECLARED DISTANCES	16	RUNWAY 34
TORA	6 000	6 000
TODA	6 984	6 984
ASDA	6 000	6 000
LDA	6 000	6 000

### Second step of Runway Closure

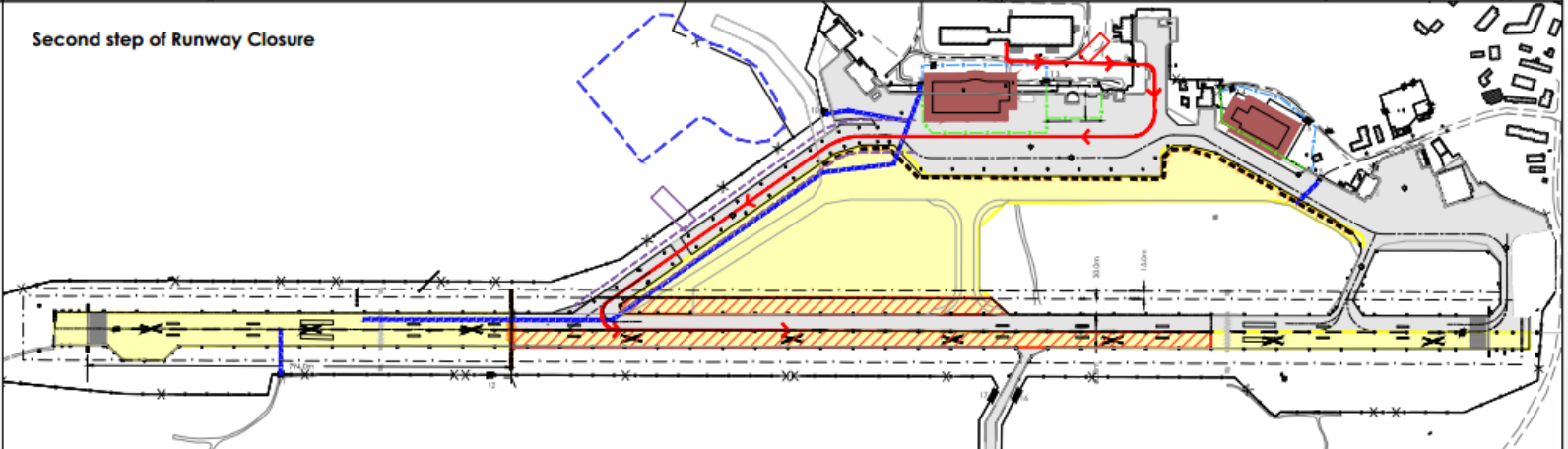
21/07/2015 to 06/08/2015



- STAGE 2015-3 during NIGHT**
- NIGHT TIME CONSTRUCTION HOURS
  - RUNWAY 16-34: CLOSED
    - RUNWAY 34 ILS U/S
    - RUNWAY 16 PAPI U/S
    - RUNWAY 16/34 APPROACH LIGHTING U/S
    - THRESHOLD RELOCATED 2,605ft (794m)
    - WEST SIDE OF RUNWAY CLOSED
    - REVISED RUNWAY WIDTH 30m
    - RUNWAY CODE 4N1 FOR MED/VAC
  - TAXI A: OPEN
  - TAXI B: OPEN
  - TAXI C: OPEN
  - TAXI D: OPEN
  - TAXI E: CLOSED
  - TAXI F: NOT BUILT
  - TAXI G: NOT BUILT
  - APRON I: OPEN WITH RESTRICTION: NEW TEMPORARY TAXILANE CODE D
  - APRON II: OPEN
  - APRON III: OPEN

DECLARED DISTANCES	16	RUNWAY 34
TORA	6 000	6 000
TODA	6 984	6 984
ASDA	6 000	6 000
LDA	6 000	6 000

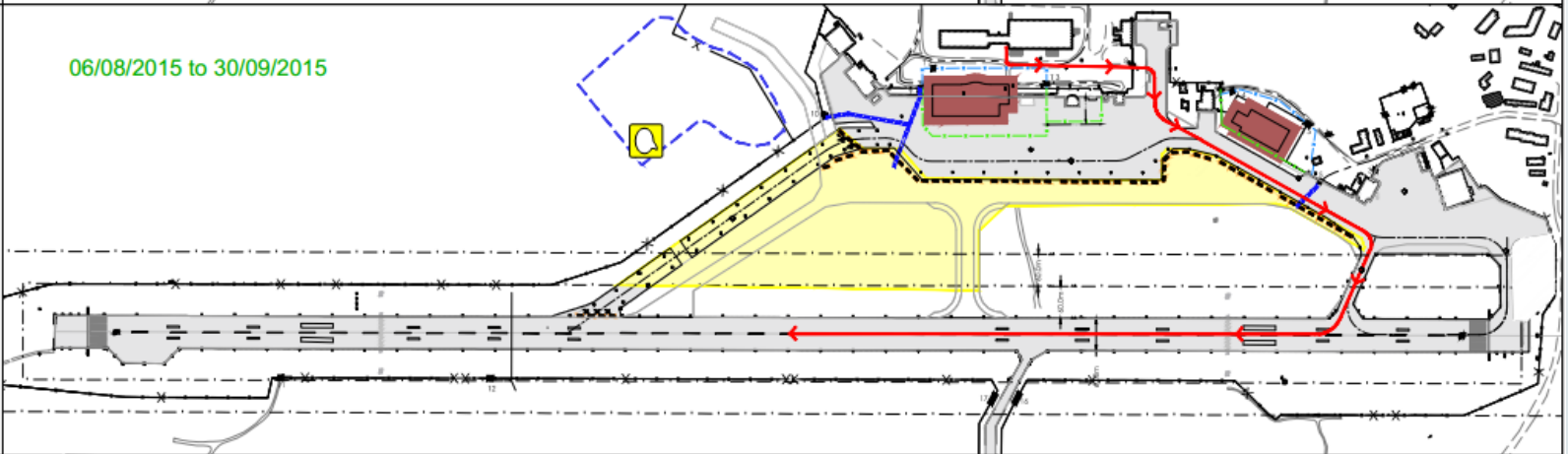
### Second step of Runway Closure



- STAGE 2015-4**
- DAY TIME CONSTRUCTION HOURS
  - RUNWAY 16-34: OPEN, NO RESTRICTION
  - TAXI A: CLOSED
  - TAXI B: OPEN
  - TAXI C: OPEN
  - TAXI D: OPEN
  - TAXI E: OPEN
  - TAXI F: NOT BUILT
  - TAXI G: NOT BUILT
  - APRON I: OPEN WITH RESTRICTION: NEW TEMPORARY TAXILANE CODE D
  - APRON II: OPEN
  - APRON III: OPEN

DECLARED DISTANCES	16	RUNWAY 34
TORA	8 605	8 605
TODA	9 589	9 589
ASDA	8 605	8 605
LDA	8 605	8 605

06/08/2015 to 30/09/2015

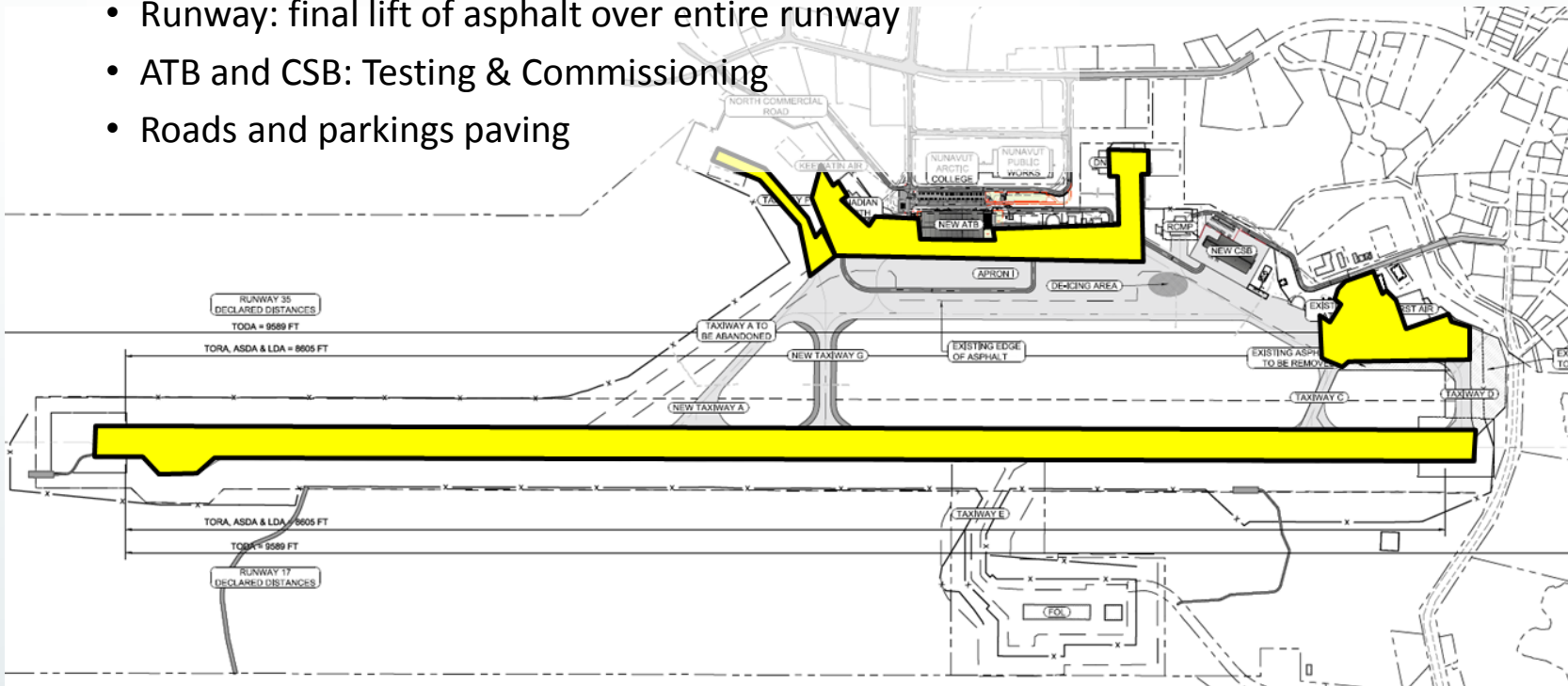


ORIGINAL SHEET - AND B



# 2017 Civil Works

- Apron I: east part paving
- Apron III: repairs and asphalt overlay
- Commercial Apron: repair failed areas and lift of asphalt
- Taxiway F: full construction including all asphalt
- Runway: final lift of asphalt over entire runway
- ATB and CSB: Testing & Commissioning
- Roads and parkings paving



# Questions?

