

## Construction Update for Stakeholders - Q3 2014

### The Airport Development Program (ADP)

Calgary International Airport (YYC) is Alberta's aviation hub of choice welcoming over 14.3 million passengers annually. YYC was the fastest-growing airport in Canada in 2013, and over the past 20 years it has more than doubled in size and passenger volume. In order to meet the needs of this continued growth, The Calgary Airport Authority has undertaken the largest and most ambitious expansion program in its history.

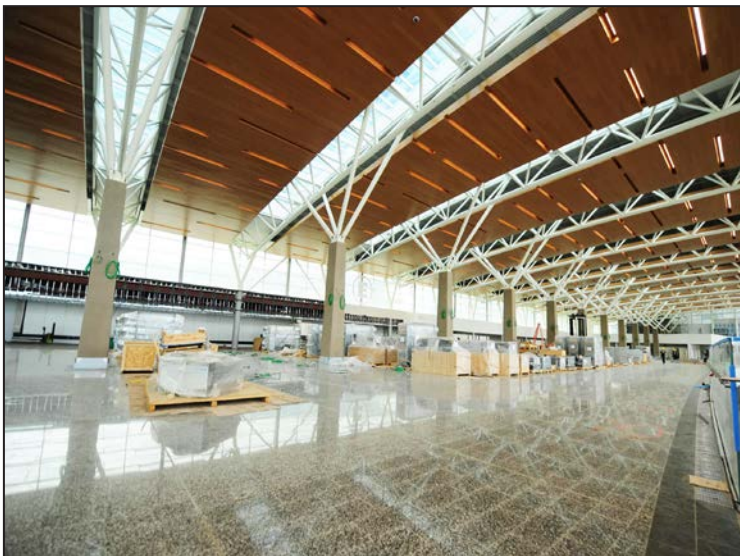
The Airport Development Program (ADP) includes two major projects – the Runway Development Project (RDP) and the International Facilities Project (IFP) – an over \$2 billion investment. The RDP is complete and the runway has been fully operational as of June 28, 2014. The IFP is well underway and scheduled for construction completion in 2015.

The Program will provide much needed airport capacity, vital to our airport partners' growth and development, and will solidify YYC's position as an important economic generator for the city, region and province.



*IFP Trivia: The total concrete poured for the new concourse is equivalent to 8,585 truck loads filled with concrete!*

### International Facilities Project (IFP)



Above: Departures Check-in Hall of the IFP

#### Once completed the new IFP will:

- Add 22 new aircraft gates for International and U.S. destinations.
- Have a roof area of more than 53,000 m<sup>2</sup>.
- Harvest 500,000 litres of rainwater to be used for flushing low-flow plumbing fixtures.
- Divert 75 per cent of construction waste from landfill.
- Include geothermal ground source energy heating and cooling.

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### International Facilities Project (IFP)

The IFP construction is divided into eight areas and construction is in progress in all areas.

- Building excavation has been completed with 500,000 m<sup>3</sup> of earth removed.
- 85,000 tonnes of gravel have been placed for the base floor slabs.
- 111,000 m<sup>3</sup> of concrete have been poured and placed (including peripheral projects for the IFP).
- 620 foundation piles have been completed to date.
- All major structural steel installation has been completed.
- Glass installation for the curtain wall is ongoing with 85 per cent completed.
- 590 km of radiant tubing have been installed (95 per cent of the total estimated 620 km).
- The granite flooring installation is ongoing with 56 per cent completed (218,727 sq. ft of the total 389,494 sq. ft).
- Overall, there will be 180,000 sq. ft of wood paneling for the ceilings. To date, 57 per cent has been installed.
- There has been over 6.9 million hours worked by construction crews to date.



Above: Aerial view of IFP construction



Above: Arrivals Level of the IFP

### Baggage Handling System (BHS)

- The BHS is a 'Tote-Tray' system, meaning one bag per tote tray.
- The total length of the Tote-Tray conveyor system is 9 km.
- The BHS is more efficient than a traditional baggage conveyor system, consuming 60 per cent less energy.
- The BHS is 100 per cent positive for bag tracking and has the capacity to process 4,000 bags per hour.
- 83 per cent of the new baggage handling equipment has been installed.



Above: Tote-Tray conveyor system

### Connecting Passengers

There are a number of additional elements that are being incorporated into the ADP.

The first being new connection processes that will create a seamless experience for the millions of travellers that visit YYC each year. YYC's connection processes will allow passengers to connect easily from international, transborder and domestic, while remaining post-security and without having to pick up and recheck their bags.

The Authority is also constructing a secure airside corridor to move passengers quickly between the existing concourses and the new International Terminal. In addition to moving walkways, passengers will have access to a new Compact Transit System (CTS), which can carry up to 10 passengers at a time, designated to move passengers quickly and efficiently between concourses.



Above: Compact Transit System (CTS) station.



Above: Connections Corridor

#### Additional elements will include:

- A Connections Corridor that will be shared among three transportation modes: moving walkways, foot traffic and a Compact Transit System (CTS).
- The Connections Corridor will be approximately 600 metres long.
- Four CTS stations along the Connections Corridor.
- Eight moving walkways, each approximately 50 metres long.
- 1,770 sq. metres of glass installed for the curtain wall.

*ConnectivityTrivia: There will be approximately 200 kg of new structural steel for every square metre of the new Corridor area.*