



LaGuardia Terminal B Fact Sheet

The LaGuardia Terminal B redevelopment project – valued at \$5.1B (including \$4B in construction value) is the largest public-private partnership in US aviation history. The redevelopment includes a new 35-gate terminal, a parking garage, related roadways and supporting infrastructure – all with innovative construction phasing, including building over-top of the current operation, that allowed the original terminal to remain fully functional while the new is built.

LaGuardia Gateway Partners (LGP) is the private entity selected by the Port Authority of New York and New Jersey to operate and redevelop Terminal B at LaGuardia. LGP is composed of Vantage Airport Group, Skanska, Meridiam and JLC Infrastructure for development and equity investment. Vantage Airport Group leads the redevelopment program and management of Terminal B, with Skanska Walsh as the design build joint venture, with HOK and WSP for design.

Terminal B Overview

The 1.3M square foot Terminal B facility is made up of the Arrivals & Departures Hall and two island concourses, which house 35 gates. The sleek new terminal features high ceilings, an abundance of natural light, intuitive way finding and an array of passenger amenities.

Arrivals & Departures Hall Overview:

This is where passengers check-in, pass through security, experience new shops, restaurants and services, and pick up checked luggage. The building connects directly – via dual skybridges – to our eastern and western concourses.

- Approximately 850,000 square ft
- 4 levels
 - Level 1: HOV (buses including MTA, on airport buses, hotel shuttle etc.), Welcome Center
 - Level 2: Arrivals (9 baggage carousels + 2 oversize luggage belts); taxi cabs, private vehicle pick up and access to the parking garage and for-hire-vehicles
 - Level 3: Departures (75 counters located within 4 large check-in islands with 8 rows); 105 self-service kiosks; a first of its kind in North America TSA security check point installation and a spacious re-composure area
 - Level 4: All departing and arriving passengers pass through this level, where the majority of our shops, restaurants and services are located, all post security
- Dining includes sit down restaurants, a food court area, grab and go and a lively bar
- Comfortable seating areas to relax in
- Dual Pedestrian Skybridges on Level 4 lead to Terminal B's two concourses

Eastern & Western Concourses:

- 35 gates split between 2 concourses
- Park areas with greenery and benches
- Children's play area
- Plenty of seating offering an abundance of charging for electronic devices
- Additional shops and dining
- Airline lounges



Restrooms

- Spacious and thoughtfully designed restrooms:
 - Over sink shelves to keep belongings dry
 - Large stalls that allow passengers to easily maneuver with their luggage
 - Designed to be as hands free as possible – passengers don't need to touch a door handle, flush valve, soap dispenser, faucet or towel dispenser when using the facilities, helping to avoid germs
- Dedicated family restrooms and nursing mother's rooms
- Two pet relief areas

Roadways

- We're building eight miles of roadway and 20 bridges throughout the airport

Airlines

- Air Canada, American Airlines, Southwest Airlines and United Airlines operate all of their ticket counters and baggage claim from the new Arrivals & Departures Hall. JetBlue also operates all of their LGA flights – with the exception of Boston – from Terminal B.
- Terminal B is a common use facility, which increases operational efficiency
- Airlines will consistently operate from the same counters, gates, and baggage belts.
 - However, during irregular operations, if needed, we have the flexibility to allocate additional or alternate ticket counters, gates or baggage belts to the airline to help support the operation
- There is also a common use group check-in desk that airlines can reserve as needed on Level 1 to help process large groups

Skybridges

- Conceived by Vantage Airport Group and designed by HOK, the new Terminal B was built *over top* the original terminal building thanks to the inclusion of dual skybridges. This innovative approach allowed the original building to remain operational during construction and its design provides
- The taxiway under the eastern skybridge is now operational and the western taxiway will open in 2022
- LaGuardia is the only airport in the world to have dual pedestrian bridges
- Passengers can watch aircraft taxi underneath their feet as they cross the skybridge, and the western bridge offers views of the iconic Manhattan skyline
- The eastern skybridge is 430' long and the highest part of the bridge is 97' above the taxiway
- The distance between the taxiway and the eastern pedestrian bridge floor is 66', with the airplane clearance height at 57'

Guest Experience

- Unlike the original terminal, nearly all of the shops, restaurants and services are located post-security
- The Arrivals & Departures Hall features 21 shops and restaurants
- Order food from Terminal B restaurants for pick up or delivery, through our partnership with Grab
- B-FAST, exclusively available at LaGuardia Terminal B, offers passengers an express pass for purchase to skip to the front of the security line



- Meet and Greet Service through partnership with Air General

Shops, Dining and Lounges

The new Terminal B has more than X shops and dining options, representing the best of NYC as well as top national brands. These include:

Dining:

- Dunkin' Donuts: Terminal B runs on Dunkin'! Enjoy Dunkin's original blend of premium coffee as well as freshly baked donuts, breakfast sandwiches and packaged snacks, salads, yogurts and fruit
- Shake Shack: A modern day "roadside" burger stand. Founded by revered New York restaurateur Danny Meyer, it has since grown from a humble New York burger stand into a global phenomenon
- La Chula: La Chula brings authentic 5 star quality Mexican food by Chef Julian Medina and redefines what quick-serve Mexican dining looks like
- Eli's Essentials: Loyal New York gourmands know Eli Zabar is a name synonymous with only the very best, highest quality products. At Terminal B, fans can grab their favorite Eli's sandwich, bagel or pastry fix to go, and enjoy his artisanal treats while sitting at the gate, on the plane or anywhere in-between
- Mulberry Street: Created by Marc Forgione, Mulberry Street, the first full-service restaurant and bar to open in Terminal B, brings the best of this hometown gastronome's critically acclaimed plates and serves them in a wholly engaging, casual meets culinary chef-led dining experience
- Spirit and Bell: A brand created specifically for Terminal B by one of New York's most influential hospitality teams, Spirit and Bell serves up a full-service wine and cocktail bar which features one of the world's best cocktail menus
- Brooklyn Diner: Celebrating the borough of Brooklyn's diverse culinary history with classic American dishes that have a distinct ethnic personalities and dishes that define America's melting pot cuisine, Brooklyn Diner features scratch-made specialties including house-cured hot pastrami, chicken pot pie and double-fisted hamburgers, as well as tacos, burritos, frankfurters and pasta
- Dos Toros Taqueria: New York City's original mission-style taqueria, serving burritos, tacos, bowls and salads made from scratch, using only fresh ingredients and naturally raised meats.
- Junior's Restaurant and Cheesecake: Originally opened in the heart of Brooklyn in 1950, over 65 years and three generations later, Junior's continues to be the epitome of New York comfort food. Serving sliced deli sandwiches, hot Reubens, juicy burgers, fresh cut fries, hearty breakfasts, and of course the best cheesecake in the world!
- Sweetleaf: The feel good, taste good, be good choice, an interactive concept centered around healthy and fresh items. Serving chef inspired salads, wraps, grain bowls, smoothies and fresh juices, using only the highest quality ingredients
- Wendy's: Dig into a classic Wendy's single, double or triple. Spice things up with some zesty chili. Or grab a signature garden-fresh salad. Whatever you do, don't forget the Frosty!

Shops & Services

- The Bowery Shops: Enjoy 15,000 sq. feet of a world-class, New York-centric shopping experience that connects travelers to an array of iconic brands as well as state-of-the-art experiences that pay homage to the city's rich history and cultural diversity. Rotating pop-up



shops will feature unparalleled sensory experiences designed to enhance the customer journey and give travelers first-hand access to an endless assortment of products and services

- The Dean: A 5,000-square-foot, fashion-forward men's emporium featuring bespoke products and services designed for the discerning business traveler. Featured brands include Herschel, Hugo Boss, Kiehl's, LaCoste, Mizzen + Main, Rhone, Shinola, The Art of Shaving, TUMI, Vince Camuto, and more
- FAO Schwarz: The first airport concept of the iconic toy store is conveniently located next to Terminal B's children's play area, offering an unparalleled selection of extraordinary toys that have enchanted generations and cultivated a loyal clientele
- MAC Cosmetics: A beauty brand with a NYC headquarters that has become the world's leading professional makeup authority
- Be Relax Spa: Take a moment to relax before your flight with wellness and beauty services. We offer massages, nail care, and more
- InMotion: A traveler's top destination for electronics on the go
- WHSmith: Powered by Amazon's Just Walk Out technology, this store offers everyday travel must-haves in a convenient, checkout-free environment

Lounges

- Beautiful and spacious new airline lounges include American's Admirals Club, Air Canada's Maple Leaf Lounge, and the United Club
- American Express Centurion Lounge, which has doubled their footprint from the original terminal

Art & Water Feature

Public Art

LaGuardia Gateway Partners has partnered with the New York based nonprofit Public Art Fund to bring 4 permanent public art commissions by some of the world's leading artists to the new Terminal B. The art expresses the creative spirit of New York and was conceived specifically for the new Terminal B:

- Sarah Sze's *Shorter than the Day*
 - This monumental sculpture by artist Sarah Sze evokes the passage of time through an intricate constellation of photographs. Hundreds of images form a mirage-like sphere that appears to float in midair. Each photograph captures a snapshot of the sky above New York City taken over the course of one day. Collectively, they chart a cyclical journey from the pale yellow of dawn to the bright blues of daylight, through sunset's dusky orange, and midnight's violet. Like the Earth, Sze's globe is fragile and gradually reveals more of itself as we circle it. *Shorter Than the Day* is a meditation on permanence and transience that embodies the essence of the Emily Dickinson poem for which it is named. Sze gives form to the idea expressed in the poem's evocative line: "We passed the Setting Sun / Or rather – He passed us."
- Laura Owens' *I 🍷 NY*
 - Laura Owens' tiled mosaic mural considers every curve, corner, and plane of the airport's largest interior wall, transforming it into a celebration of New York City. Against a brilliant blue sky filled with illustrative clouds, Owens depicts dozens of iconic images in a motif that evokes the potential New York City conjures in the public imagination. Representing the city's historic public artworks, treasured landmarks, popular snacks, and



everyday sights, the mural also includes many symbols of the expansive transit network that connects them all. The colossal work synthesizes her unique painterly style with the artisan craft of handmade ceramic and the visual language of digital image-making. This dynamic composition changes with our point of view, as recognizable images seen from afar become gridded abstractions when seen in proximity, dissolving into impressionistic colors and out-of-focus glimpses of our imagined city.

- Sabine Hornig's *La Guardia Vistas*
 - Artist Sabine Hornig's *La Guardia Vistas* alters our perception of the urban landscape. Her transparent photo-collage fills an expansive glass façade, allowing sunlight to immerse visitors in a kaleidoscopic wash of color, image, and text as they move through the Connector. The highly detailed composition merges over 1100 photographs of New York City into a pair of interlocking cityscapes. Buildings pictured in twilight shades of blue reach up to the tops of inverted skyscrapers that reflect the golden morning sun. The work's title refers to Fiorello La Guardia, founder of the airport and New York City Mayor from 1934 to 1945. Hornig has included 20 quotes from and about La Guardia, reminding us of the power of visionary leadership to shape our shared environment
- Jeppe Hein's *All Your Wishes* (balloons and benches)
 - Dozens of colorful and reflective balloon-shaped steel sculptures by artist Jeppe Hein are distributed throughout Terminal B, as if released into the air and allowed to float to the ceiling in defiance of gravity. Dispersed around every corner like a fairytale breadcrumb trail, Hein's brilliantly playful balloons invite viewers to look skyward and embrace their sense of wonder.
 - Jeppe Hein's witty and whimsical bench sculptures reinvent a familiar form of public seating, turning a functional object into a lyrical and evocative work of art. Three bright red benches curve, loop, and twist to form an irresistible invitation to spontaneous expression and social connection. Providing for a moment of respite to countless travelers, Hein's benches offer new perspectives on ourselves, each other, and the spaces we have in common.

Water Feature

- The centerpiece of our commercial district, the Water Feature is the only installation of its kind in the Americas
- The Terminal B water feature uses 4,000 gallons of recirculated water, which travels through two suspended 25-foot-tall rings to create a water curtain
- We created multiple shows that are projected onto the water feature, using choreographed lighting, video projection and music.

New York Sense of Place

The spirit of New York can be found throughout the new Terminal B:

- Facades of storefronts inspired by architecture of different neighborhoods of Manhattan, including Fifth Avenue, Rockefeller Center, and Soho.
- Native stone elements inspired by Westchester
- Photography of NYC throughout the terminal
- Restaurants and shops include Junior's Restaurant & Cheesecake, Brooklyn Dine, Eli's Essentials from Eli Zabar and Mulberry Street, from NY Chef Marc Forgione.
- Permanent commissioned artwork includes NY artist's Sarah Sze's sculpture *Shorter than the Day*, which incorporates hundreds of images of the sky above NYC, captured during a single



day; Laura Owens' *I NY* mosaic tile with iconic NYC images and Sabine Hornig's *La Guardia Vistas*, a transparent photo collage with over 1100 photographs of NYC and quotes from NYC Mayor and airport founder, Fiorello La Guardia

- Water Feature shows celebrating NYC

Baggage Handling System (BHS)

- The BHS is located in Levels 1-3 of the headhouse
- System can handle 3,250 bags per hour
- 3.2 miles of conveyer
- Installed using 1,704 miles of wire
- Outbound bags screened at 5 TSA inline CTX machines
- 9 common use inbound bag carousels plus 2 for over-sized luggage
- 7 induction belts, 2 oversize drop off belts and 3 curbside check-in position with belts (AC, AA and UA customers)
- 1 group check in belt
- 17 sortation piers
- BHS system is energy efficient and goes into 'sleep mode' when not in use. This is expected to save at least 37% of energy when compared to airports that use older technology motors in their BHS.
- Mobile Inspection Tables (MIT):
 - With 55 MITs, Terminal B has one of the largest numbers of MITs in the US
 - The bag is automatically placed on an MIT, which then rolls itself over to a TSA officer to manually inspect the bag on the mobile table
 - MIT is guided by LIDAR technology. LIDAR stands for Light Detection and Ranging, and it is a remote-sensing method used by agencies such as NOAA to examine the surface of the Earth.
 - The MITs eliminate lifting and pulling by TSA officers, improve tracking accuracy, reduce noise pollution and increase the overall speed of the baggage screening process.

TSA Security Check-Point

General Overview

- LGP partnered with the TSA to ensure the most technologically advanced screening equipment is used in the new Terminal B
- 1 main security check point allows TSA to staff more efficiently and open and close lanes as needed
- Our 16-lane operation includes dedicated lanes for families, wheelchairs, TSA pre-check, premium passengers and airport employees.
- Carpeting to reduce noise, a large re-composure area with plenty of seating and natural light to improve passenger comfort
- Security wait times are prominently displayed on digital screens

Podiums (where passengers typically present boarding pass and ID to TSA Officer)

- Utilizing the new CAT (Credential Authorization Technology) at 8 positions (out of 24 total)
- Passenger's driver's license or passport is scanned, instead of also scanning boarding pass.
 - This eliminates a risk of a fraudulent boarding pass



- One of the first airports in the US to use this technology

Smart PAD System (the conveyer belt system for screening carry-on items)

- LaGuardia Terminal B is the first in the world to have this technology, called SmartPad ASL.
 - Currently only being used in the TSA test lab, it allows up to 5 people to divest into bins simultaneously per lane and will automatically sequence the bins onto the belt while the passenger begins filling the next bin
- Trays for belongings have RFID tags on them
- As trays go through X-ray, they are classified as ‘no threat’; ‘possible threat’ or ‘high threat’.
 - Based on classification, the bag is automatically sorted into the correct lane on the conveyer; If high threat, it goes into a ballistics containment unit.
- Faster screening process
- System includes an automated bin return with a camera able to track if someone leaves an item behind in the bin.
 - A light flashes to alert passengers and TSA officers, and the system prevents the bin from entering the lowerator so it doesn’t suck up the item.

AIT – Advanced Imaging Technology/QPS 201 (the body scanner)

- Most advanced system available
- Eight AITs
- Larger area to stand in for screening, easier to enter/exit, no need to raise your hands above your head, faster process time than conventional AITs

Innovative Technology

- LGP partnered with the TSA to ensure Terminal B features the most technologically advanced screening equipment. This includes mobile inspection tables as part of the baggage system, Smart Pad System, and Advanced Imaging Technology
- Building Management System (BMS): Building Management System is a computer-based control system that controls and monitors the building's mechanical and electrical equipment such as ventilation, lighting, power system and fire systems.
- Mobile and contactless food ordering through our partnership with Grab: Guests can use their phone to order food from select restaurants.
- Dynamic terminal map: In addition to traditional static maps throughout the terminal, we offer an interactive map that allows you to navigate the terminal virtually, find walking paths to points of interest.
- Common use check-in systems allow any airline to utilize any check-in counter position.
- Common use check-in kiosks allow passengers to utilize any kiosk in the departure hall, also with bag tag printing capability.
- Dynamic signage in the TSA queue display passenger wait times and allows queue zones to be adjusted based on passenger demand.
- Redesigned Flight Information Display screens across the passenger journey designed to communicate flight information to passengers in new and innovative ways.
- Testing UV light for cleaning handrails of escalators and temperature screening cameras to monitor guests with elevated temperatures.
- Feedback Now updated to incorporate QR code for touchless operation.



- Dynamic displays at baggage claim that will display baggage delivery time, taxi/bus wait time, weather etc.
- Integrated Operations Center with the latest CCTV and system monitoring technology
- LaGuardia Gateway Partners is piloting numerous technology initiatives to improve guest experience and increase operational efficiency and commercial outlook
 - *Using camera technology to monitor and analyze vehicle traffic on terminal frontage*
 - *Testing Smart Restroom technology that incorporates data including passenger footfall, passenger feedback on restroom conditions and janitorial time spent cleaning to guide better cleanliness (this includes Feedback Now – as well as other elements)*
 - *Testing People Counting & Tracking technology to support both the Operation and the Commercial program. People counting technology can – for example – allow us to share data with partners like the TSA to review in consideration of efficient staffing levels. And tracking technology helps us measure dwell time for the commercial program.*
 - *SITA twin pilot to monitor overall airport operations*

Sustainability

- The new Terminal B was the first airport project in the world to achieve the LEED v4 Gold certification for sustainable design.
- The Terminal B project received the first-ever Envision Platinum award from The Institute for Sustainable Infrastructure (ISI) under its newly updated Envision V3 framework.
- 99% of debris from the old P2 parking garage has been recycled for use on the project
- The new baggage system is eco-friendly and uses 37% less energy compared to older systems.
 - The new Baggage Handling Systems (BHS) provides controlled movement of bags only when they are present on the system – and will essentially be in ‘sleep mode’ when not in use.
- The new terminal features water saving plumbing fixtures:
 - Solar Hot Water System - Rooftop solar hot water systems augment the domestic hot water supply for the bathrooms.
 - The solar hot water system, combined with our water efficient fixtures, is expected to generate 78% in hot water energy savings when the new terminal is complete.
- The new terminal features energy saving LED lighting:
 - These LED lights are currently installed in the new Arrivals & Departures Hall, eastern concourse and the Central Heating and Refrigeration plant and will also be installed in the new western concourse, once complete.
 - Furthermore, the orientation of the building along the east-west allows the building to harness natural light which can be controlled using daylighting dimmers.
 - Occupancy sensors are also deployed to optimize energy use.
- LGP is optimizing the performance of heating and cooling through LGP’s computer-based Building Management System:
 - The new Terminal B features demand control ventilation design that utilizes outside air dampers & variable air volume (VAV) systems to supply the right amount of fresh air to guests when and where needed.
 - There are two types of roof materials being used at the new Terminal B. The roof is covered with light color aluminum and PVC membrane. The light color materials



- reflects solar heat better than the conventional dark color ones.
- The apron concrete pavement also reflects more solar heat than the conventional asphalt pavement. Collectively, the design reduces summer cooling loads and greenhouse gas emissions.
- Responsibly Sourced Material:
 - LGP is making more informed choices by including materials with declarations on their life cycle environmental impact or its constituting ingredients as much as possible. For example, the ceiling tiles, carpets, and drywall are made from recycled content and the structural steel is made from high recycled content values.
- The new Terminal B features stations to refill water bottles, eliminating waste from disposable plastic bottles.
- LGP also eliminated the use of single use plastic straws in Terminal B

Project Timeline

The new Terminal B opened in phases to allow the original terminal to remain operational during construction:

- June 2016: Lease signed and construction begins
- February 2018: New Terminal B Parking Garage opens
- December 2018: Eastern Concourse opens
- June 2020: Arrivals & Departures Halls and Eastern Skybridge opens
- August 2020: Phase 1 of Western Concourse opens
- May 2021: Taxiway under Eastern Skybridge opens
- December 2021: Phase 2 of Western Concourse opens
- January 2022: Western Skybridge opens

Remaining work to be completed in 2022: demolition of the last piece of the old terminal, to allow for opening of additional gates and taxiway under the Western Skybridge.

Construction Facts

- The new Terminal B is a construction marvel -- and at its completion, an estimated 11 million work hours will be performed over the life of the project to transform LaGuardia Terminal B.
- This is one of the most complex airport construction projects in history.
 - We built on an incredibly small footprint –in front of, next to and even over top the existing terminal without impacting airport operations.
- 40,000 tons of steel were used to construct the new terminal.
 - The Arrivals and Departures Hall alone is made up of almost 10,000 pieces of steel, weighing approximately 12,000 tons – more than the weight of the steel in the Eiffel Tower.
- 99% of debris from the old P2 parking garage has been recycled for use on the project.

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