



Convention Center Loop, Underground Transportation System FACT SHEET June 2021

OVERVIEW

Elon Musk's innovative underground transportation system known as the Convention Center Loop serves as a fun and quick transportation solution to move thousands of convention attendees throughout the more than 200-acre Las Vegas Convention Center (LVCC) campus, all 40 feet beneath the ground. Created by a state-of-the-art boring machine, two one-way vehicular tunnels, including three passenger stations, connects the existing campus to the brand new, 1.4 million square foot West Hall expansion. The first commercial project of its kind, the \$52.5 million project allows convention attendees to be whisked across the sprawling campus in just under two minutes, free of charge, in all-electric Tesla vehicles.

ABOUT ELON MUSK'S BORING COMPANY

The creation of Elon Musk's underground transportation system was born out of his desire to solve the problem of traffic gridlock – a problem with which he was personally plagued as a Los Angeles resident. As such, the company is focused on building low-cost, fast-to-build underground transportation systems to alleviate traffic congestion. Going underground has several advantages as tunnels are structurally safe, weatherproof, noise-free and can meet growing capacity by easily adding multiple levels.

CONSTRUCTION FACTS

- The boring machine in May 2020 emerged from the new West Hall side of the LVCC, ending the second of two 4,500-foot journeys and signaling the completion of excavation on the project. The underground transportation system was funded by the Las Vegas Convention and Visitors Authority at a cost of \$52.5 million.
- The Convention Center Loop includes three passenger stations, connecting the existing 3.2 million square feet of LVCC campus with the new West Hall.
 - South Station: East of South Hall in the Las Vegas Convention Center Red Lot (above ground station)
 - Central Station: Immediately adjacent to Central Hall (below ground station)
 - West Station: West of the new West Hall (above ground station)
- The tunnels measure 13.5 feet, outer diameter and 12 feet, inner diameter.
- The tunnels include full illumination and communications, monitoring and fire life safety systems.

HOW DOES THE LVCC UNDERGROUND TRANSPORTATION SYSTEM WORK?

- The Convention Center Loop utilizes all-electric Tesla vehicles
 - Passengers load into vehicles capable of holding three people, with future vehicles capable of holding up to 12 people.
 - The number of vehicles in operation at any given moment will be based on the Convention Center trade show schedule.
 - The system is designed to transport up to 4,400 convention attendees per hour, per direction, across the campus.

- The underground transportation system is currently staffed with drivers but will eventually be autonomous.
- It takes less than two minutes to carry passengers across the convention center campus; by foot it is a 20-30-minute walk.
- Vehicles have capacity to go 150 mph but will go 35-40 mph due to the short distance of the tunnels.
- The underground transportation system is free for convention attendees.

THE FUTURE LAS VEGAS LOOP

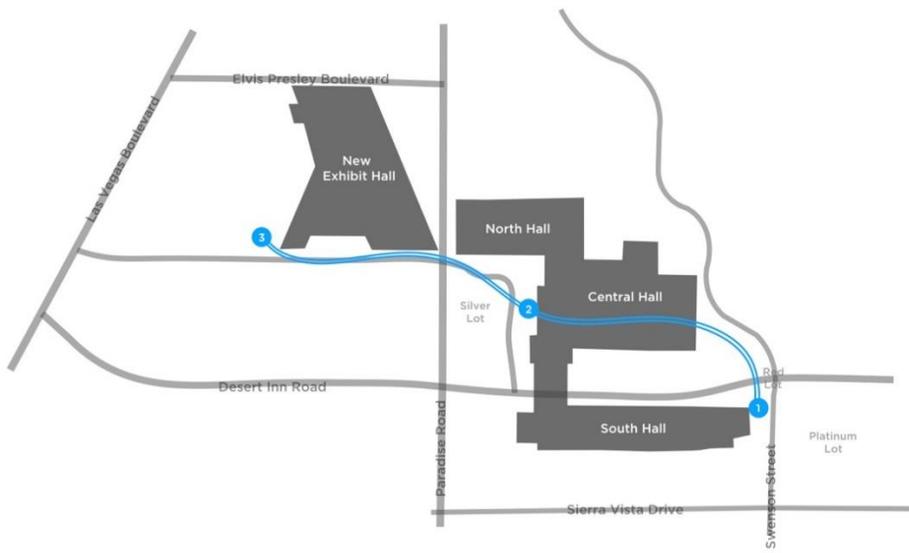
The Convention Center Loop inspired a larger effort for the creation of underground transportation throughout the destination. Encore at Wynn Las Vegas will be among the first to connect to the LVCC campus as their plans have already been approved by the county. Plans have been announced to expand the system throughout the entire resort corridor, known as the Vegas Loop, which will ease traffic congestion and offer a new transportation option for visitors.

UNDERGROUND TRANSPORTATION SAFETY

- The system's design strives to be the safest possible public transportation system.
- Tesla's Model X, S, and 3 have achieved the lowest probability of injury of any vehicle ever tested by the National Highway Transportation Safety Administration.
- The track requires no electrified "third rail" (like most subways) as each vehicle is battery-powered; therefore, there are no touch hazards in the tunnel and the entire track can be used as a walkway for emergency exits.
- A bidirectional ventilation system is designed to exceed applicable standards.
- The tunnels feature redundant power & communications systems.

TIMELINE

- January 2019: Request for Proposal (RFP) issued
- March 2019: LVCVA Board of Directors approved a recommendation to select Musk's company to design and construct the underground transportation system
- May 2019: LVCVA Board of Directors approved contract with Elon Musk's boring company
- September 2019: Excavation began at launch shaft (South Station)
- October 2019: Launch shaft completed, the tunnel boring machine lowered into shaft 40 feet underground and assembled
- November 2019: The tunnel boring machine is turned on and tunneling begins
- February 2020: Excavation of Tunnel 1 is completed and work on Tunnel 2 began
- May 2020: Excavation of Tunnel 2 is completed, marking the official end of tunneling
- November 2020: Both tunnels paved and fully lit
- January 2021: Certificate of Occupancy granted
- February 2021: LVCC Loop completed



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