HIGH-SPEED TRANSPORTATION: HYPERLOOP

Public Update

November 11, 2019

Clint Hail, Transportation Planner
Automated Vehicle Program
Ecosystem of Transportation Innovation in North Texas

Courtesy WFAA

Courtesy Drive.ai

Courtesy Uber Elevate

Courtesy FedEx

Courtesy Kodiak Robotics
NCTCOG RFP: High-Speed Transportation Study

• Based on recommendations made in Mobility 2025.
• Not just hyperloop technology but will look at a variety of high-speed transportation options.
• Ongoing study: Hyperloop route from Fort Worth to Laredo
• For questions re: RFP, contact TransRFPs@nctcog.org
• RFP: https://www.nctcog.org/trans/funds/overview/rfp-altanalysis-pe-and-nepa-documentation-for-high
What is hyperloop technology?
Typical Sections

Number 1

* Horizontal and vertical clearances allow for the area needed to construct, operate and maintain the guideway and supporting facilities.
** Minimum vertical clearance over roadways is 5 m or 16.5 ft. Vertical clearance of 5.6 m or 18 ft would be required over interstate highways and other roadway corridors designated for freight. Vertical clearance over passenger or freight railroads would be 7 m or 23 ft.
**Typical Sections**

**Number 2**

- **Horizontal Clearance***
  - 4 m / 13.1 ft

- **Tube**
  - 5 m / 16.4 ft

- **AV/Roadway**
  - 8.5 m / 28 ft

- **Tube**
  - 5 m / 16.4 ft

- **Horizontal Clearance***
  - 4 m / 13.1 ft

- **Vertical Clearance***
  - 4 m / 13.1 ft

- **Tube**
  - 5 m / 16.4 ft

- **Vertical Clearance**
  - Over Roadway:
    - 5 to 5.6 m / 16.5 to 18.5 ft

- **Vertical Clearance**
  - Over Guideway:
    - 10 to 10.6 m / 32.9 to 34.9 ft

- **Horizontal Clearance***
  - 26.5 m = 87 ft

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# VHO Phases & Timing

(Dates Will Be Pushed Back)

<table>
<thead>
<tr>
<th>VHO Phase</th>
<th>Timing</th>
<th>Length of Track Built in Phase</th>
<th>Total Length of Track</th>
<th>Number of Tubes</th>
<th>Number of Vacuum Buildings</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>18 months (Estimate Feb 2020 to Aug 2021)</td>
<td>1.5 km (straight) (0.9 mi)</td>
<td>1.5 km (straight) (0.9 mi)</td>
<td>1</td>
<td>1</td>
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<tr>
<td>B</td>
<td>9 months (Estimate Aug 2021 to May 2022)</td>
<td>3 to 5 km (1.9 to 3.1 mi)</td>
<td>4.5 to 6.5 km (2.8 to 4.0 mi)</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>C</td>
<td>9 Months (Estimate May 2022 to Jan 2023)</td>
<td>0</td>
<td>4.5 to 6.5 km (2.8 to 4.0 mi)</td>
<td>?</td>
<td>?</td>
</tr>
<tr>
<td>D</td>
<td>9 Months (Estimate Jan 2023 to Nov 2023)</td>
<td>6 to 8 km (3.7 to 5.0 mi)</td>
<td>10.5 to 14.5 km (6.5 to 9.0 mi)</td>
<td>?</td>
<td>2</td>
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</tbody>
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VHO RFP: Hyperloop Certification Center

• Virgin Hyperloop One (VHO) requesting proposals from across the country.
• Focus on certification facility.
• Regional Transportation Council discussing VHO RFP this week—Thursday, 14 November.

Courtesy AECOM and Fort Worth Star-Telegram
Questions?

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