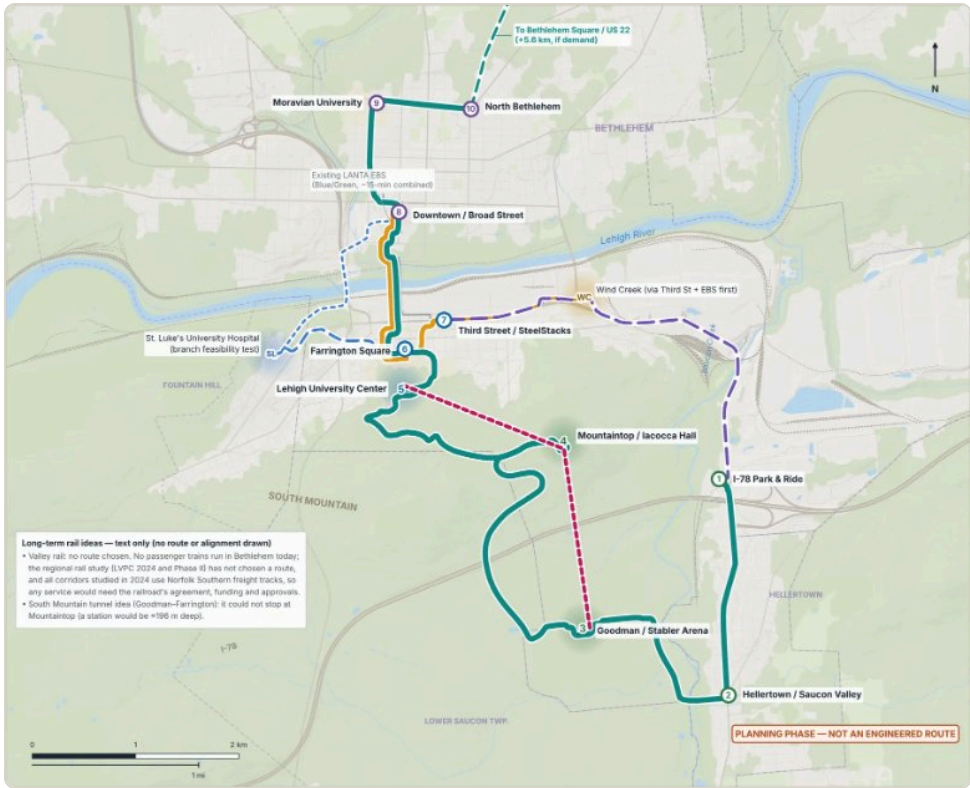


Connect Spine

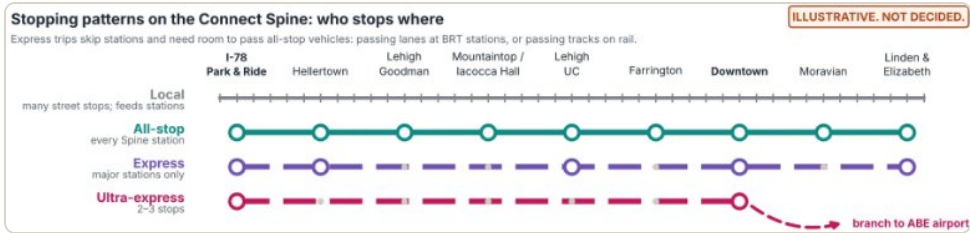
Electric bus rapid transit from the I-78 Park & Ride to Linden & Elizabeth: 16.5 km and about 35 minutes end to end, built on LANTA's Enhanced Bus Service.

PHASE 1 · CONDITIONAL TARGET 2029

Planning phase. An independent plan; nothing is funded or built yet.



Station dots mark areas. Shaded areas mark station areas, not sites. Long-term rail ideas are text only: no rail route or tunnel is drawn.



10 stations

9 on the Spine, 1 on the River Line; plus 3 evaluated destinations

Every 10 min

18 hours a day (planning assumption)

16.5 km · ~35 min

end to end, measured on street data

11 electric Spine buses

9 at the peak; 15 with the River Line

SPINE STATIONS, SOUTH TO NORTH (MINUTES FROM THE STOP BEFORE)

1	I-78 Park & Ride	start
2	Hellertown / Saucon Valley	~4.7
3	Goodman / Stabler Arena	~4.6
4	Mountaintop / Iacocca Hall	~7.8
5	Lehigh University Center	~6.2
6	Farrington Square	~2.3
8	Downtown / Broad Street	~3.3
9	Moravian University	~3.3
10	North Bethlehem	~2.4

CONNECTIONS

- River Line (Phase 1): Downtown – Farrington Square – Third Street / SteelStacks, 2.5 km, upgrading LANTA's EBS core.
- Gondola mountain link: a Phase 1 option, about 12 minutes Goodman – Mountaintop / Iacocca Hall – Asa Packer, decided only after wind, regulatory, land and cost studies.
- Service tiers (long-term vision): local, all-stop, express limited-stop and ultra-express hub-to-hub.

STILL UNKNOWN

- Who could fund about 71,000 new service hours a year (Spine and River Line), and in what shares.
- Whether battery buses can run all winter on 11–13% campus grades, and at what energy use.