Station Location Analysis

September 20, 2023

East-West Transit Study

RideKC

RideKC Kansas City Area Transportation Authority

Summary

East-West Transit Study
RideKC

- **Inputs**
  - Data Sources
    - RideKC Transit Route and Station Dataset (GIS)
    - KCMO Parcel Viewer
    - Land Use Geodatabase (gdb)
    - Climate and Economic Justice Screening Tool (CEJST)
    - Planning Documents

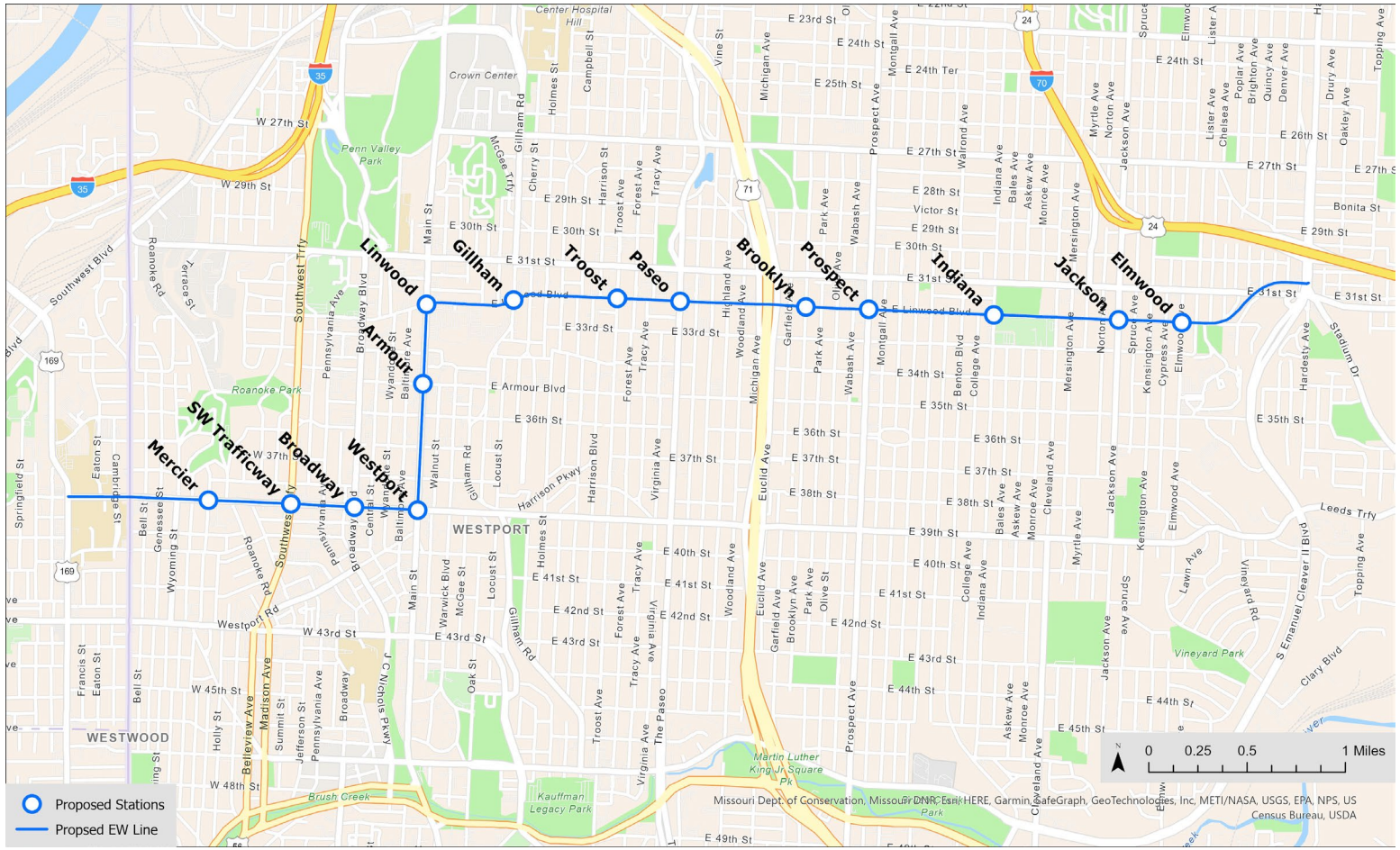
      NextRail (2013)

      RideKC Streetcar Main Street Expansion

Proposed Intermediate Stations

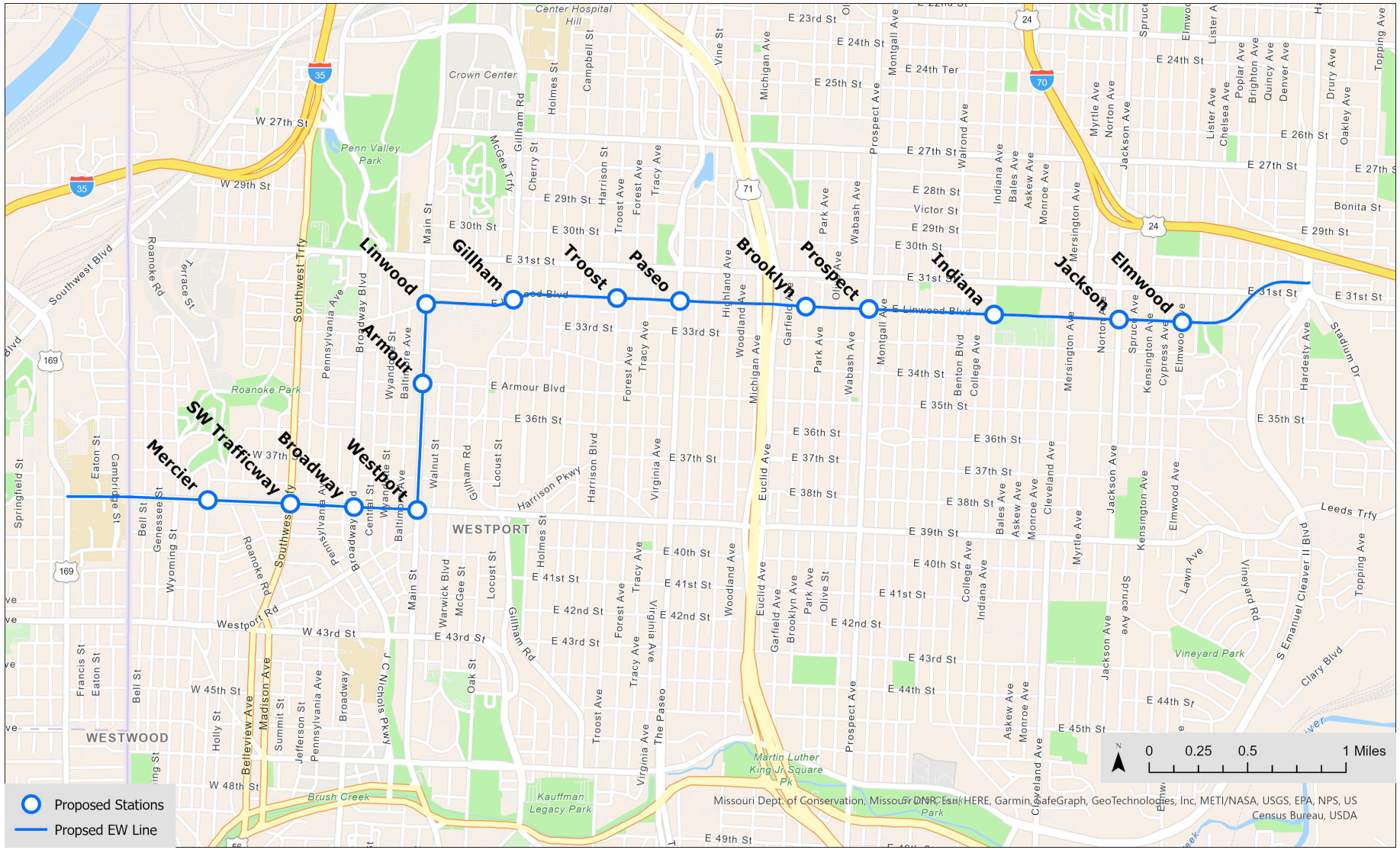
East-West Transit Study
RideKC

- 14 Intermediate Stations
- Spacing between .25 and .5 miles



Proposed Intermediate Stations

East-West Transit Study
RideKC



Proposed Stations – 39th St.

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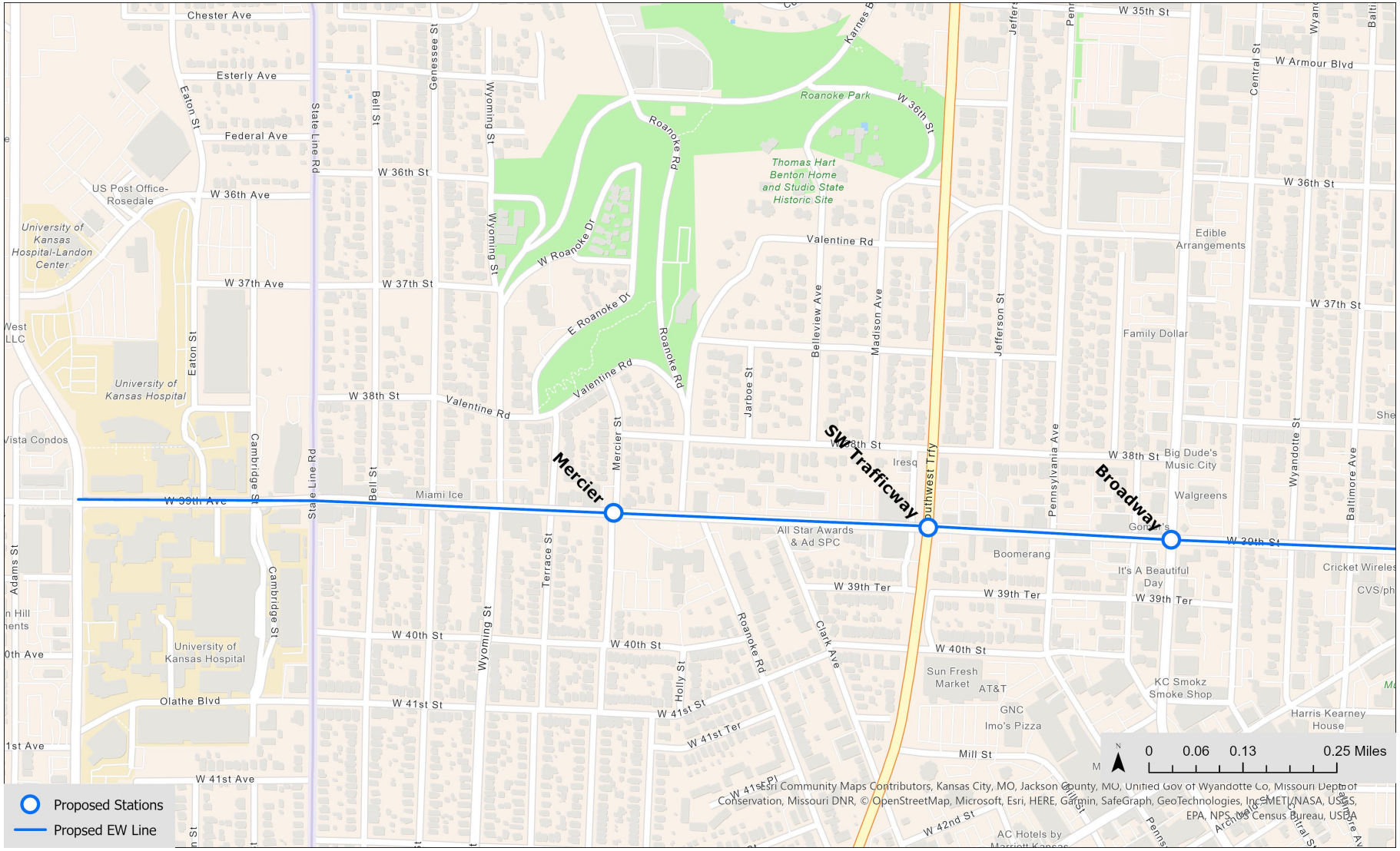

Proposed Stations – 39th St.

East-West Transit Study
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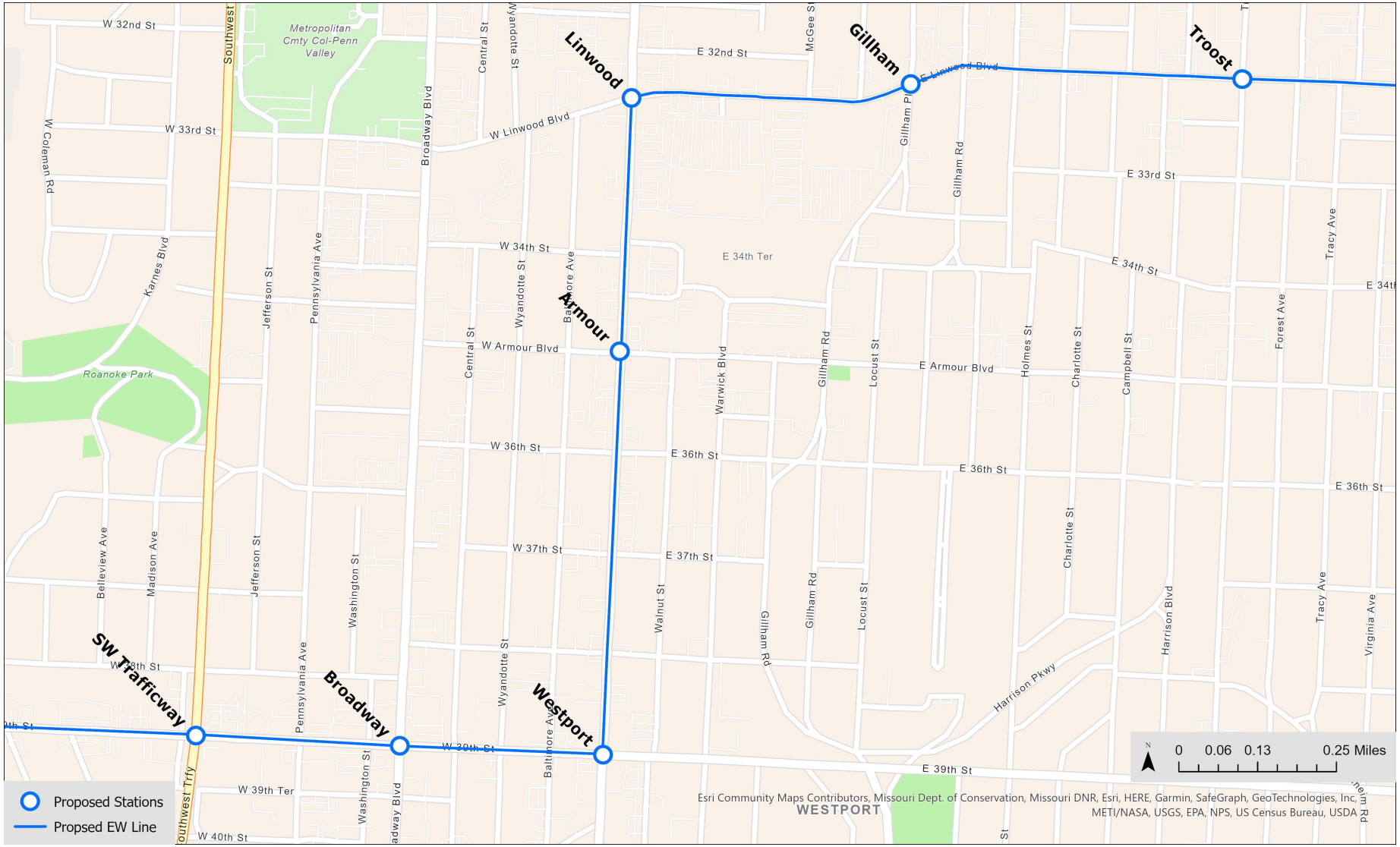
Station ID	Station Name	Planning Study	Disadvantaged Tract?	Existing Ridership Range	Future Land Use
1	Mercier	N/A	N	63 - 84	Mixed-Uses
2	SW Trafficway	N/A	N	58 - 121	Mixed-Uses
3	Broadway	N/A	N	1214 - 1,295	Mixed-Uses

Proposed Stations – Main St.

East-West Transit Study
RideKC



Proposed Stations – Main St.

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Station ID	Station Name	Planning Study	Disadvantaged Tract?	Existing Ridership Range	Future Land Use
4	Westport	Next Rail & KC Streetcar Expansion	N	221 - 260	Mixed-Uses
5	Armour	Next Rail & KC Streetcar Expansion	Y	461 - 557	Mixed-Uses
6	Linwood	Next Rail	Y	610 - 876	Mixed-Uses

Proposed Stations – Linwood Blvd.

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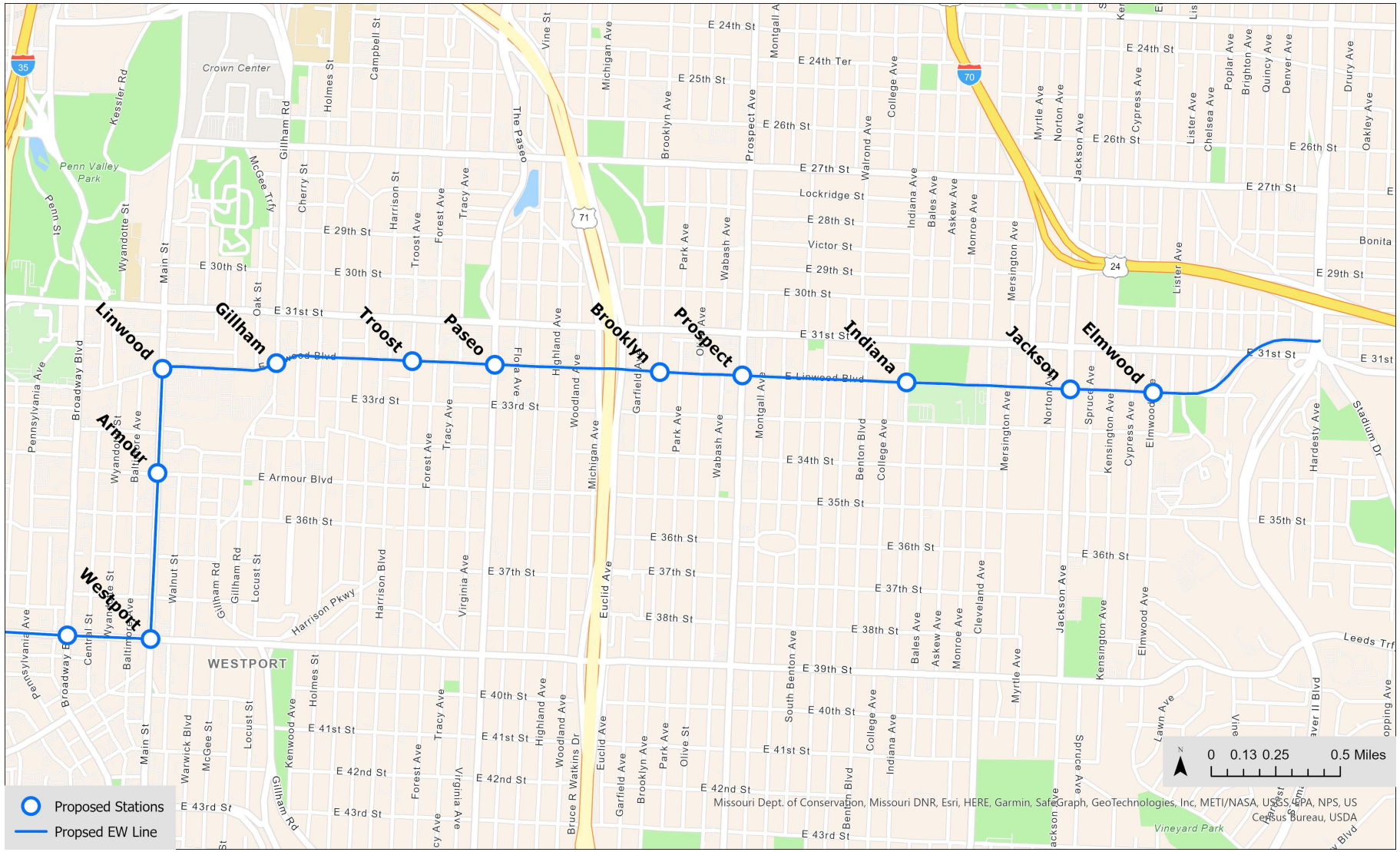

Proposed Stations – Linwood Blvd.

East-West Transit Study
RideKC

Station ID	Station Name	Planning Study	Disadvantaged Tract	Existing Ridership Range	Future Land Use
7	Gillham	NextRail	Y	163 - 288	Mixed-Uses
8	Troost	NextRail	Y	1,683 – 1,763	Mixed-Uses
9	Paseo	NextRail	Y	150 - 192	Institutional/ Residential
10	Brooklyn	NextRail	Y	95 - 218	Park/Residential
11	Prospect	NextRail	Y	1,926 – 2,002	Mixed-Uses
12	Indiana	NextRail	Y	444 - 508	Institutional/ Park/Residential
13	Jackson	NextRail	Y	161 - 263	Residential
14	Elmwood	N/A	Y	40 - 152	Residential

Proposed Western Termini

East-West Transit Study
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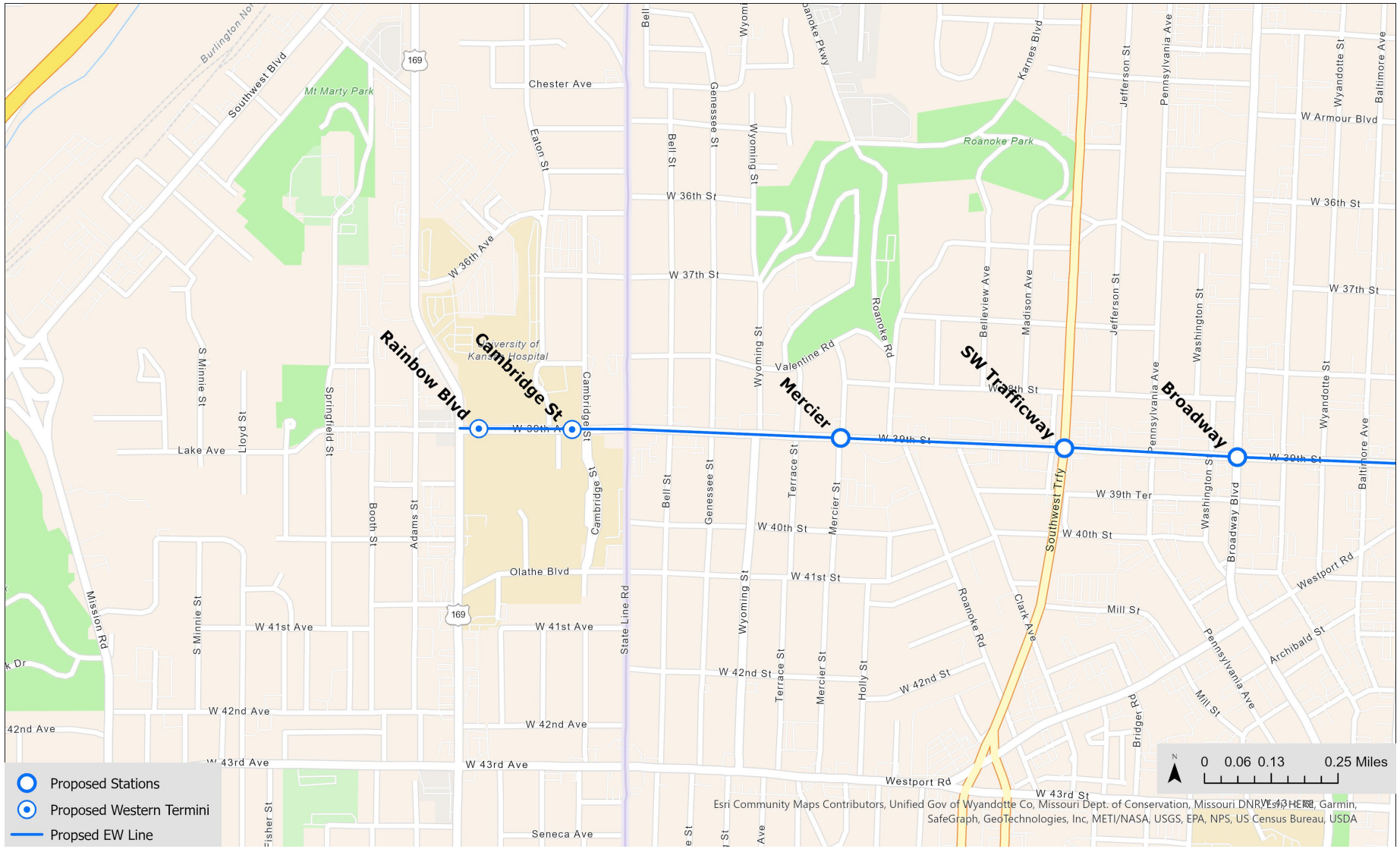
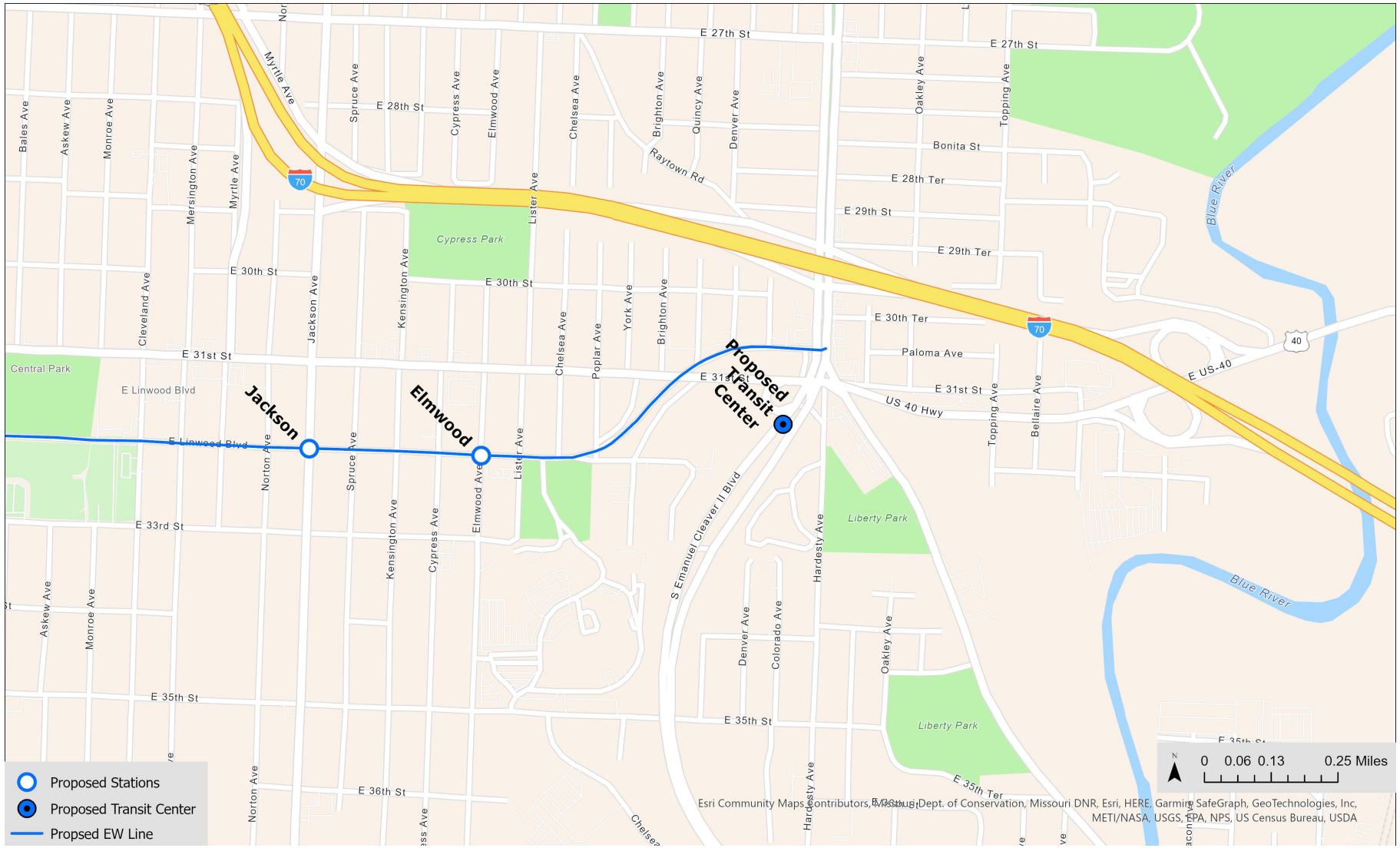


Eastern Terminus – Proposed Transit Center

East-West Transit Study
RideKC



Proposed Stations – Network Context

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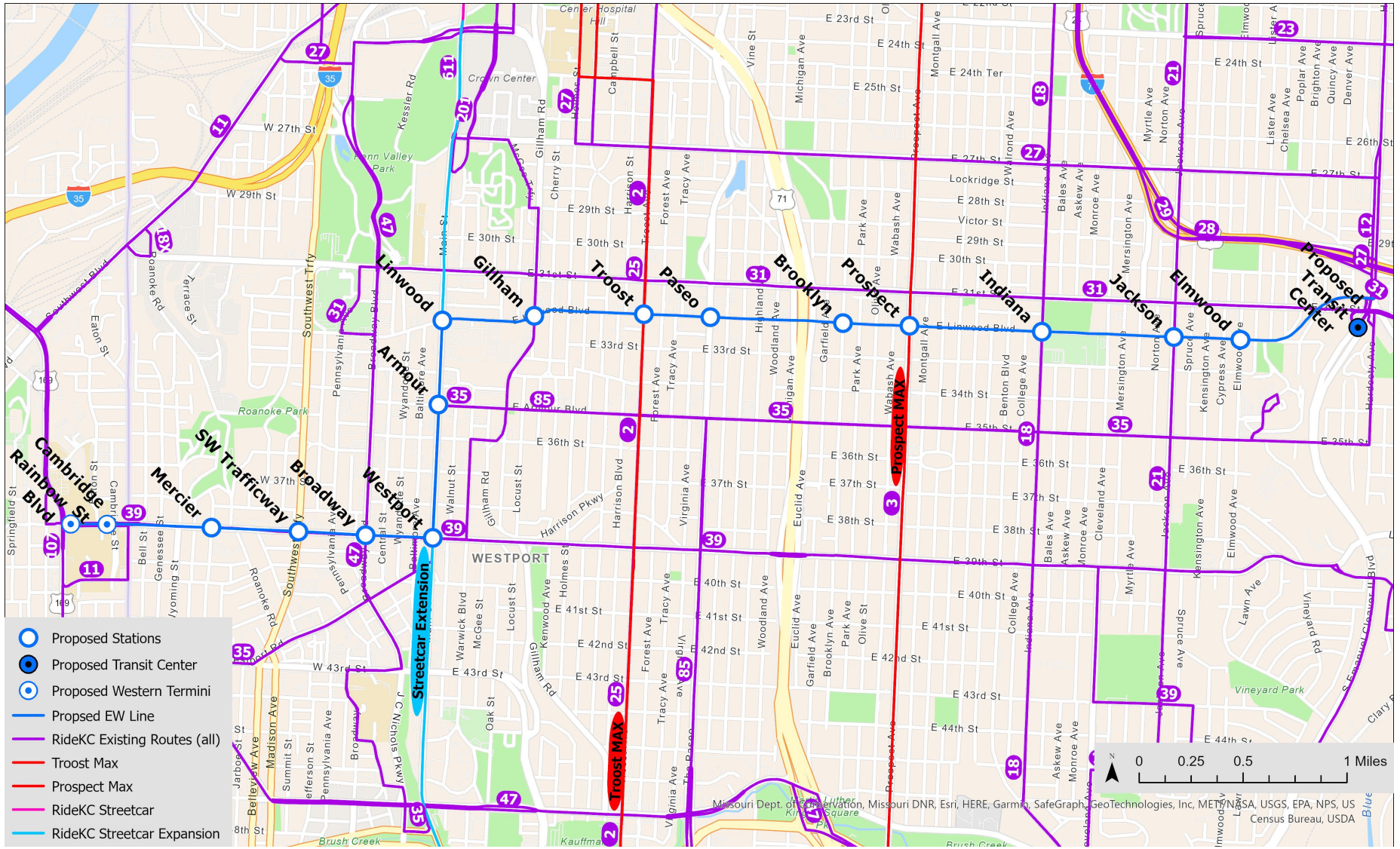

Proposed Stations – Current Land Uses*

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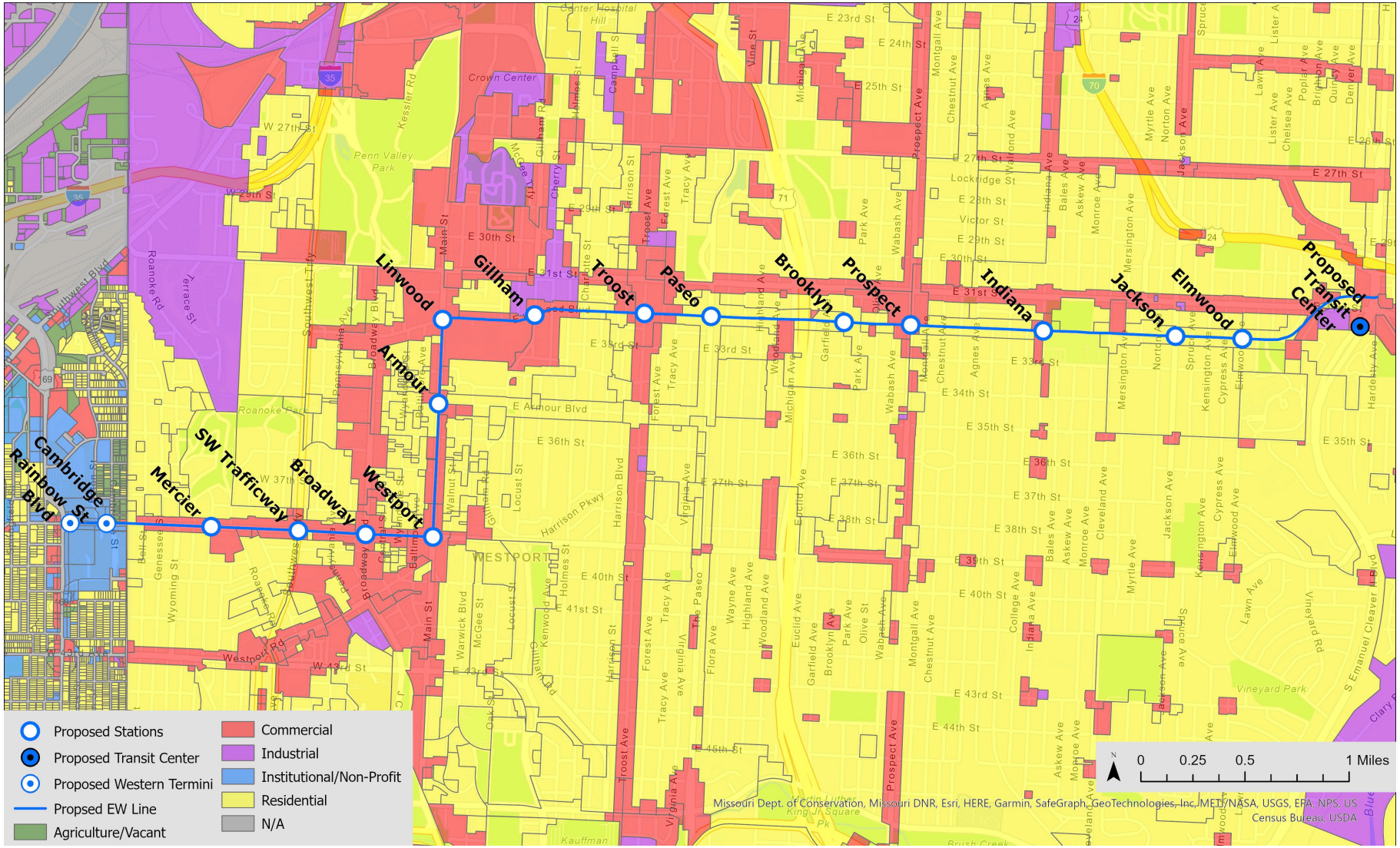
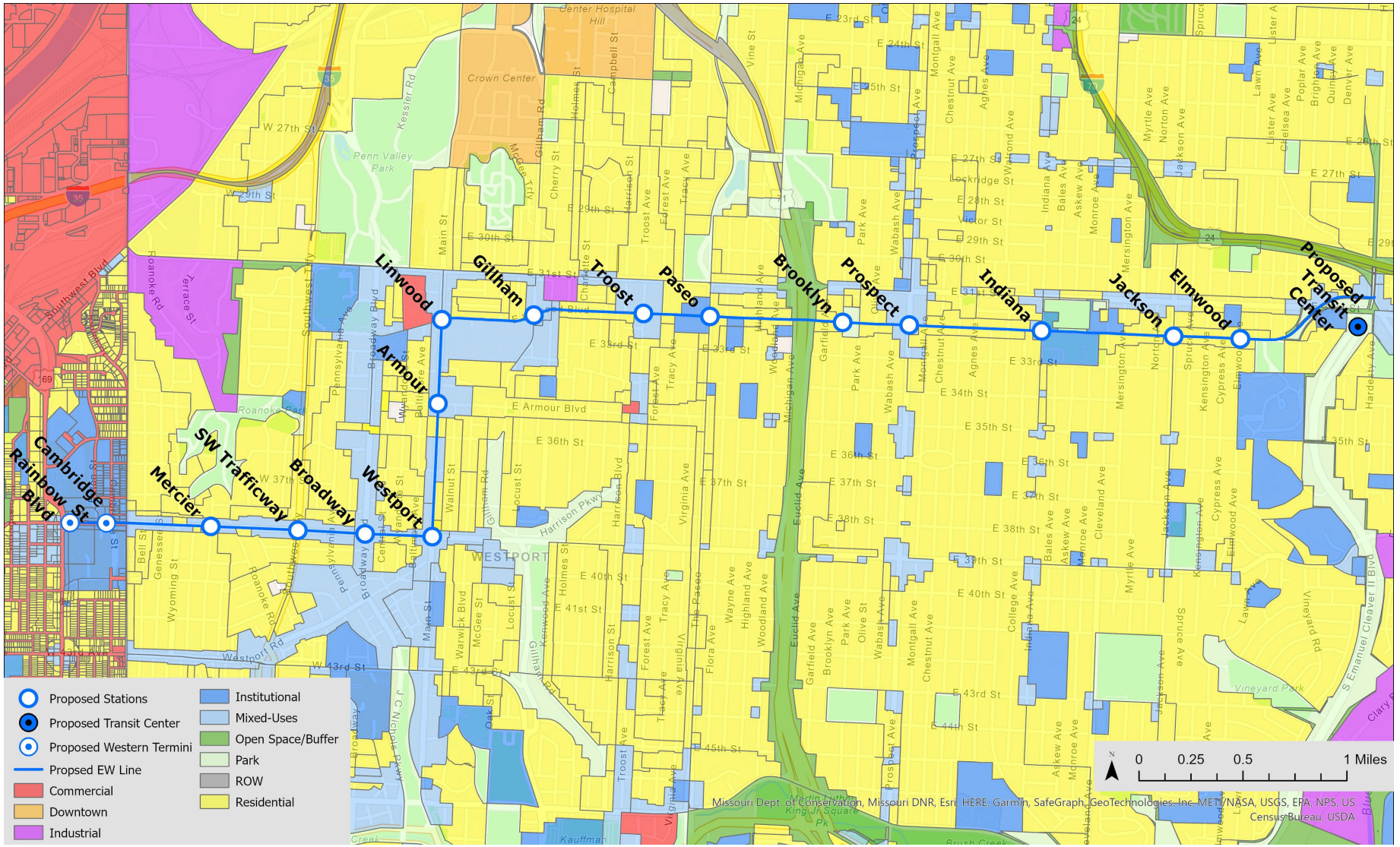


*Institutional/Non-Profit uses were not provided for by KCMO officials in the making of this dataset

Proposed Stations – Future Land Uses

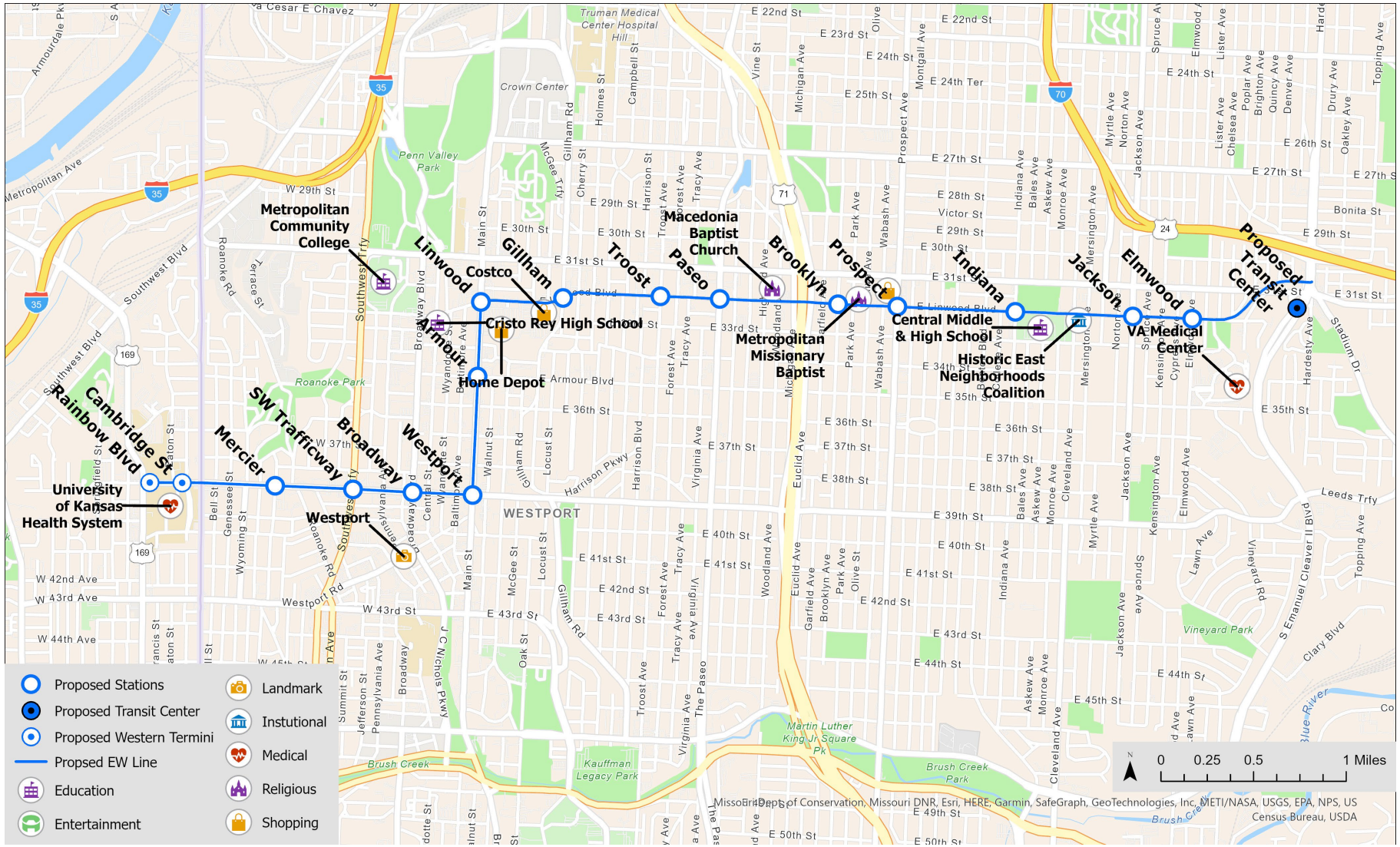
East-West Transit Study
RideKC



*Industrial uses were not provided for by KCK officials in the making of this dataset

Proposed Stations – Activity Centers

East-West Transit Study
RideKC



Proposed Stations – Adjacent Routes and Stations

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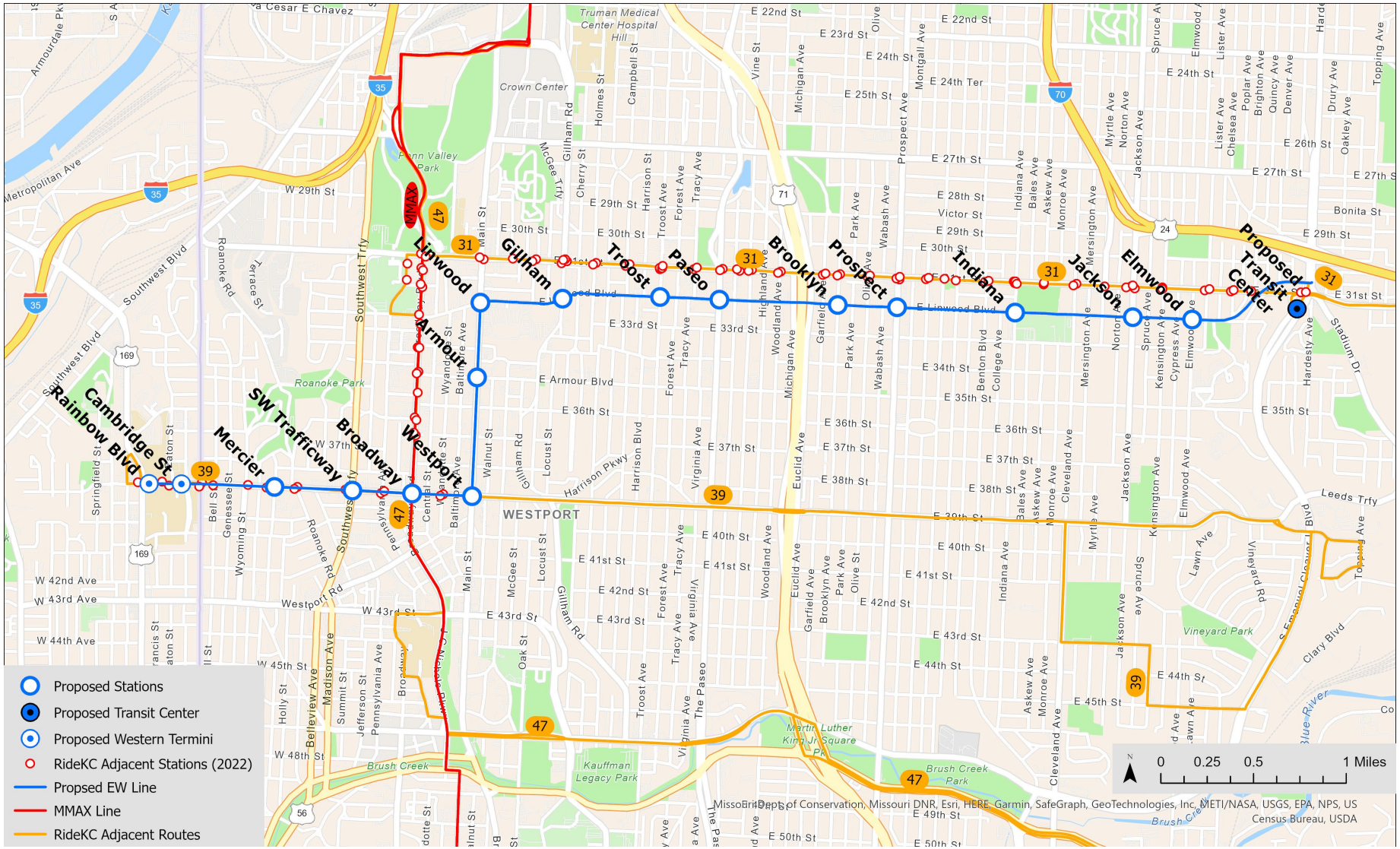
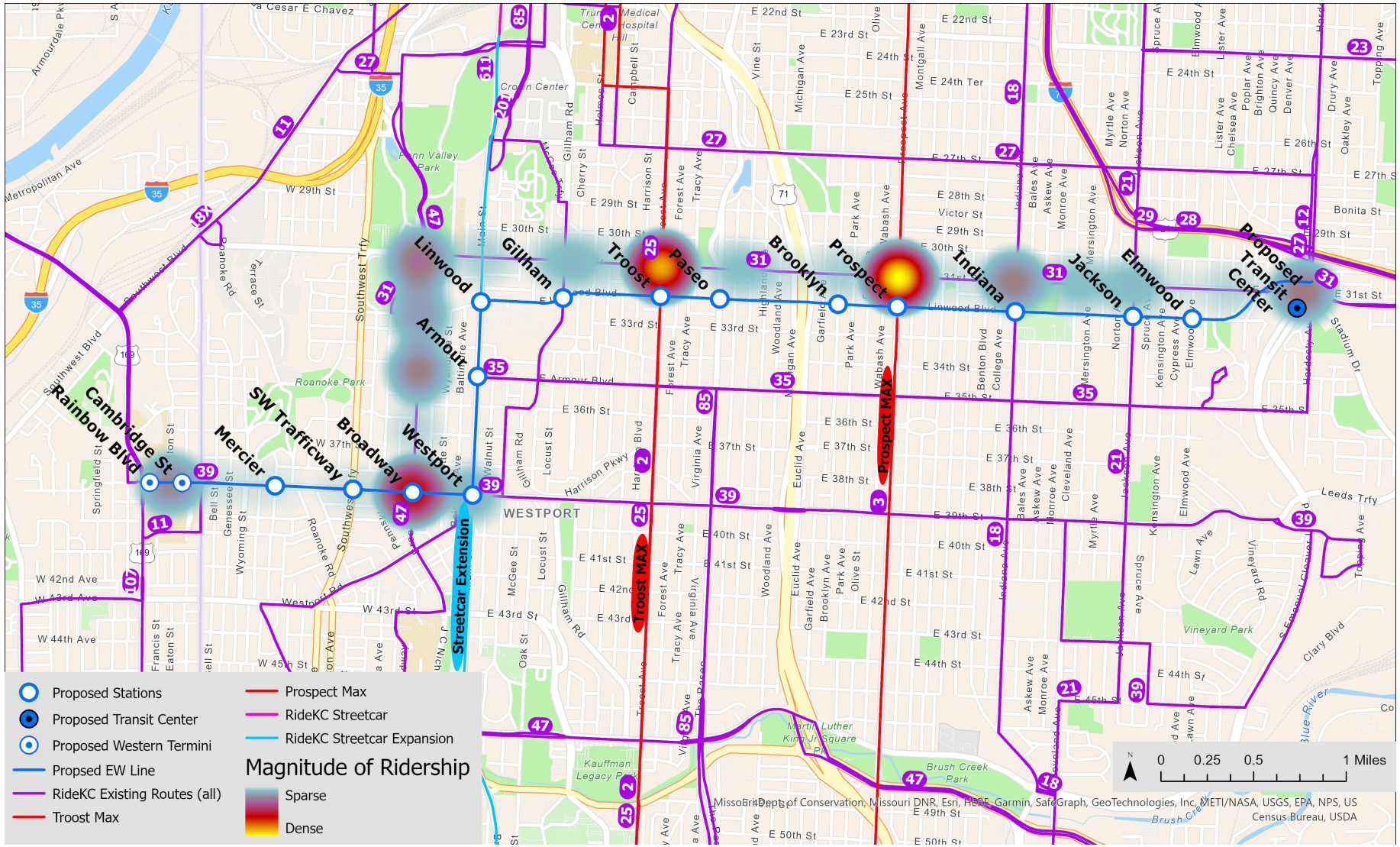
RideKC



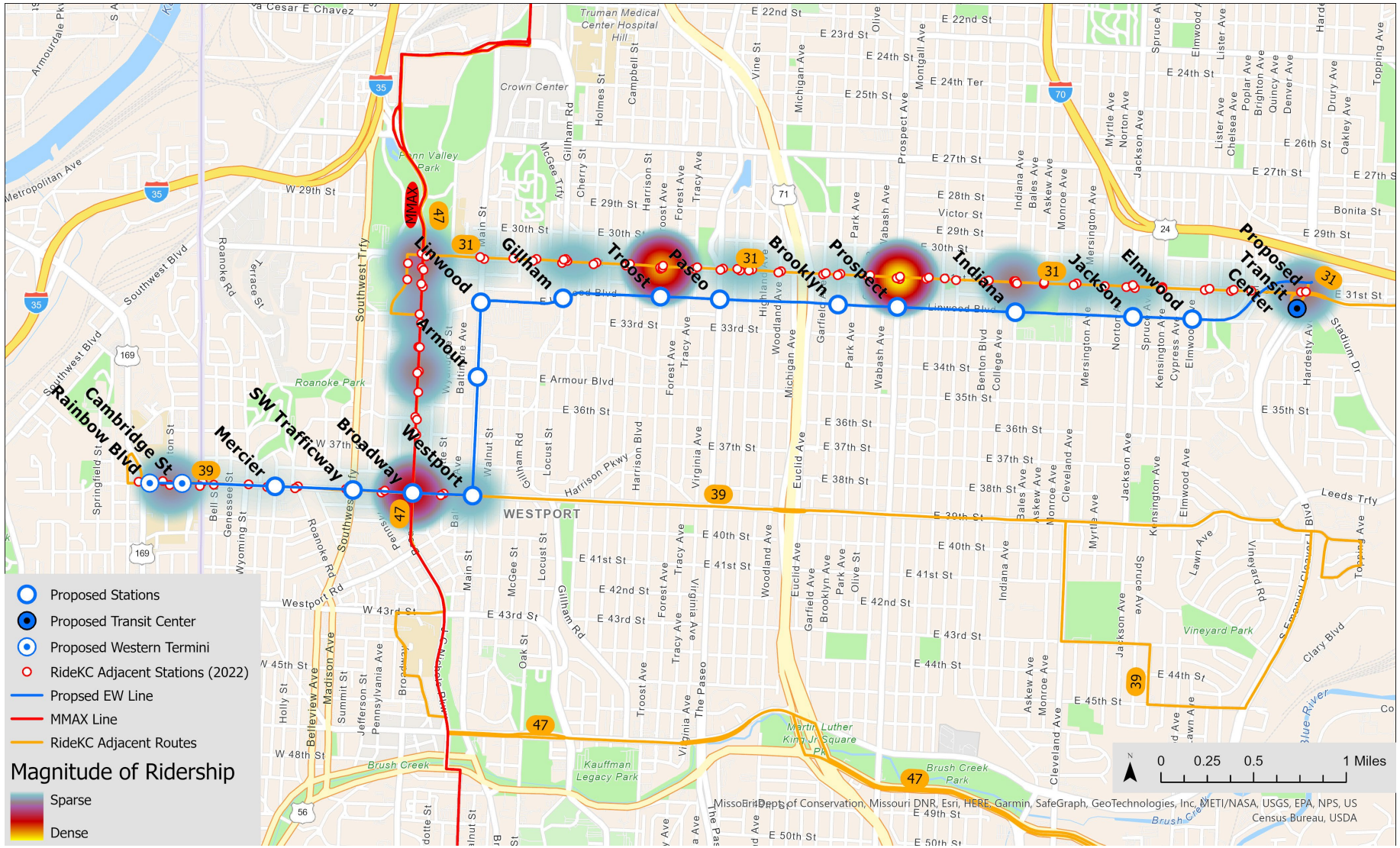
Proposed Stations – Transfers on Existing Routes

East-West Transit Study
RideKC



Proposed Stations –
Existing Ridership on Adjacent Routes

East-West Transit Study
RideKC



Proposed Stations – Walkshed Analysis (Distance)

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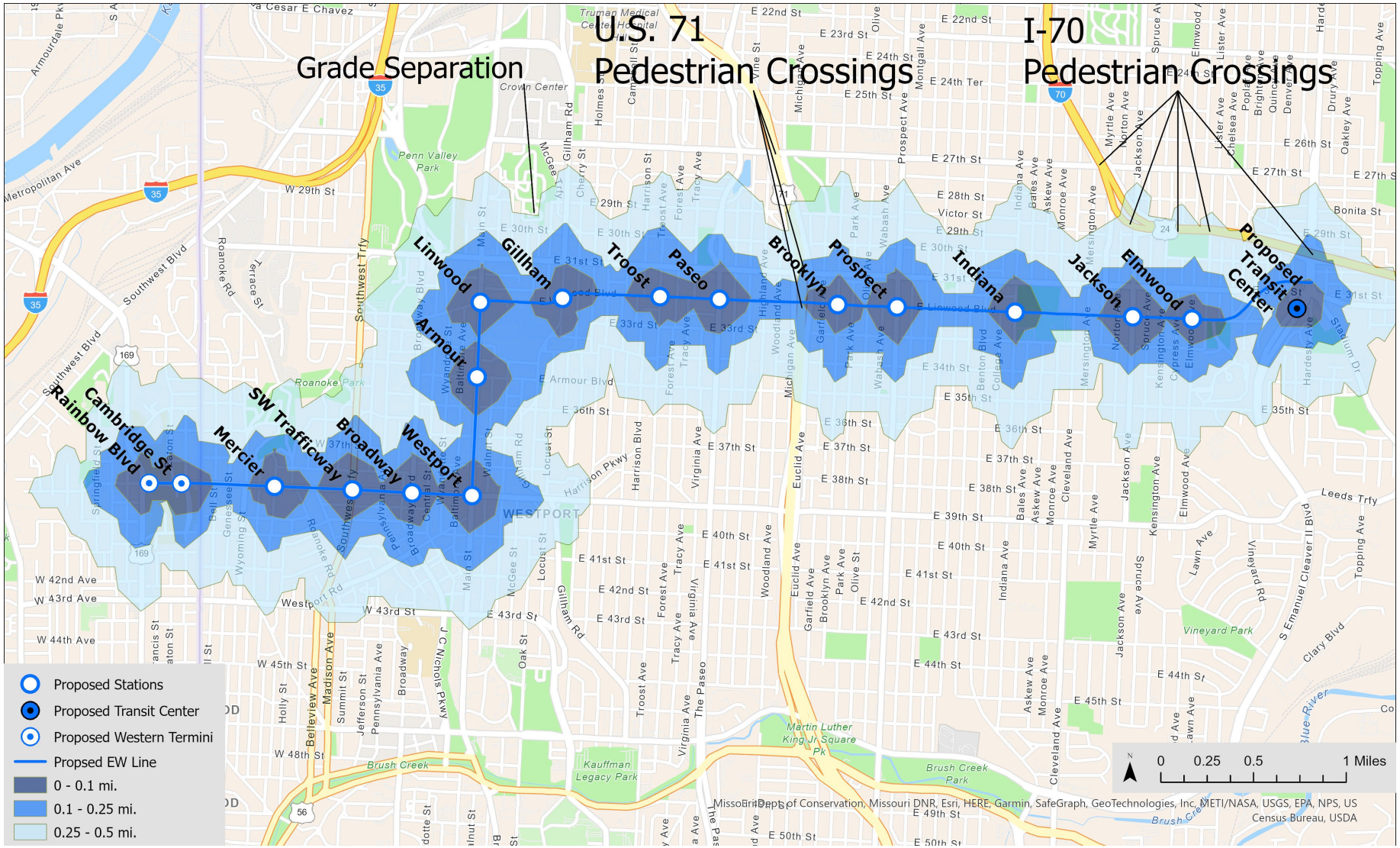

Proposed Stations – Walkshed Analysis (Time)

East-West Transit Study
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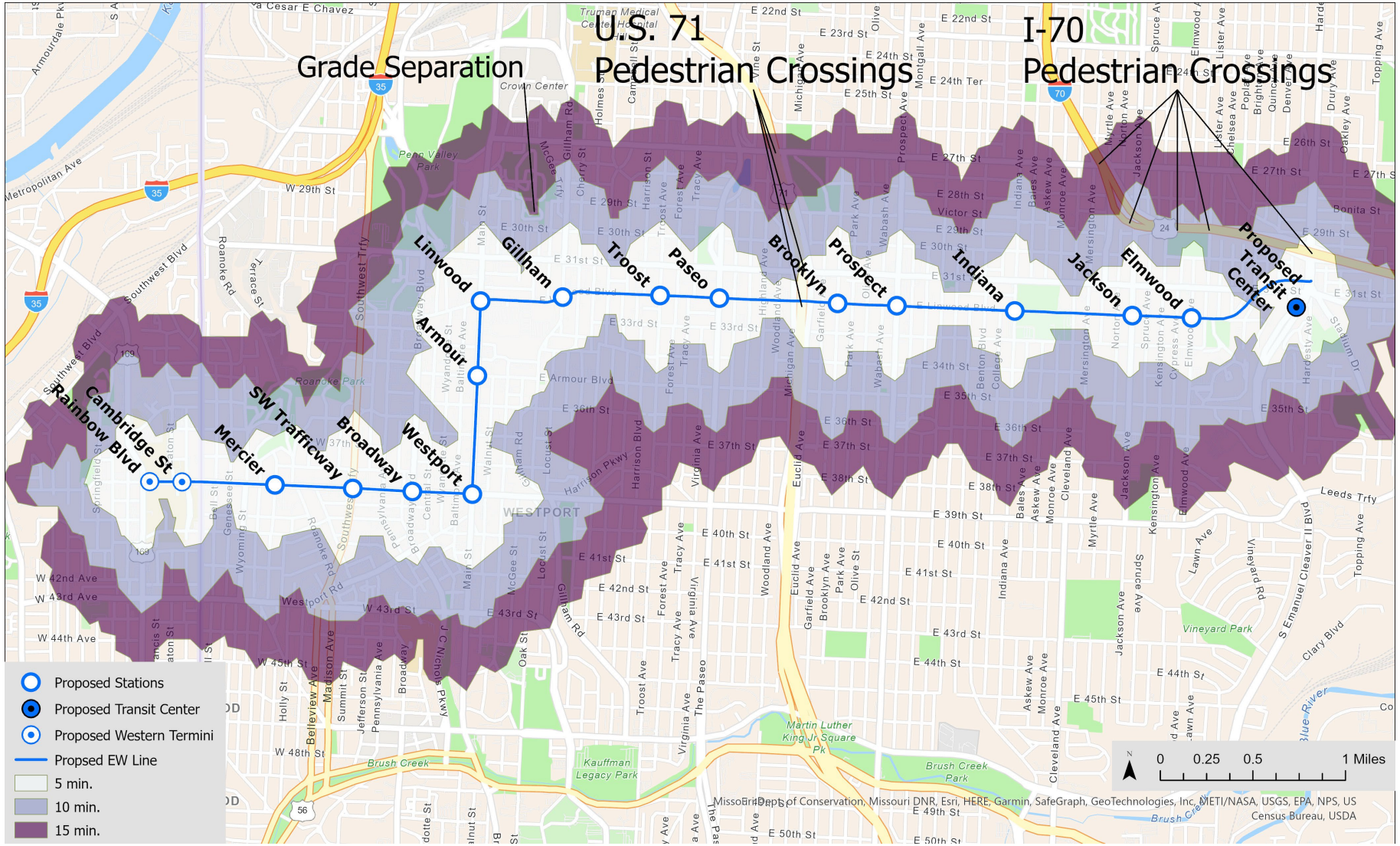
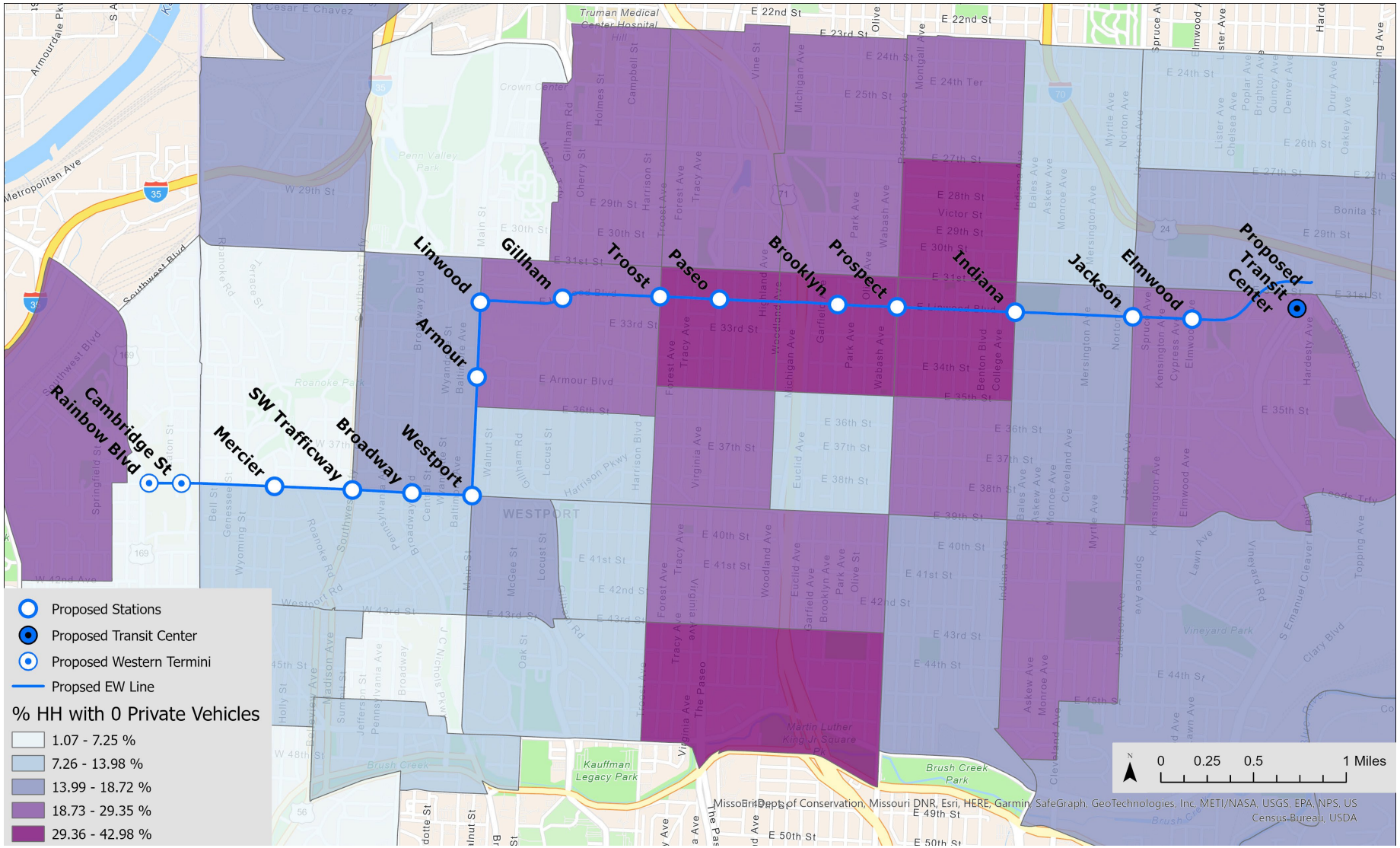


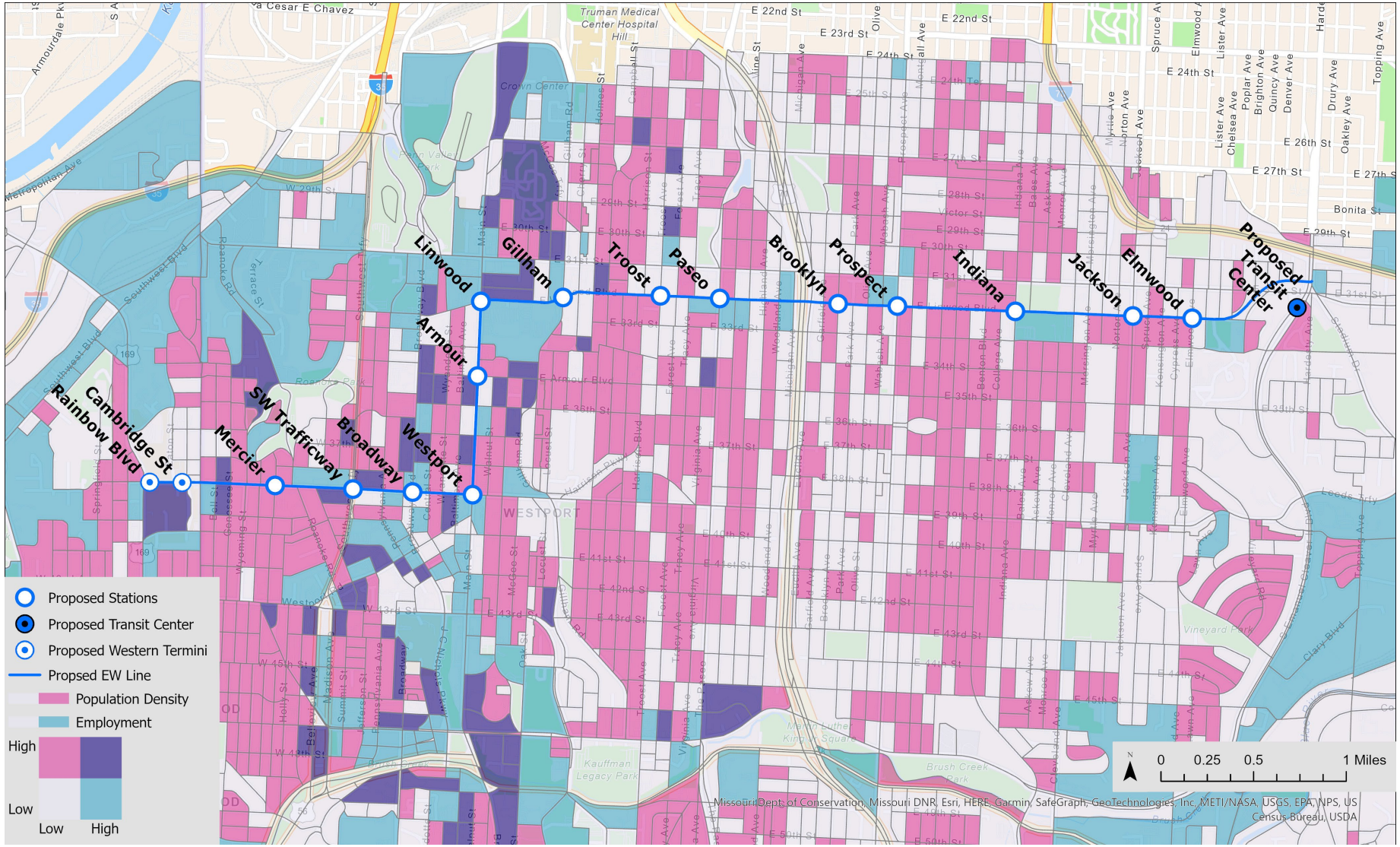
Demographic Analysis – Access to Private Vehicles

East-West Transit Study
RideKC



Demographic Analysis – Employment and Population Overlap*

East-West Transit Study
RideKC



Source: Census Data (2020) & LODES8 Data

Demographic Analysis – Disadvantaged Tracts

East-West Transit Study
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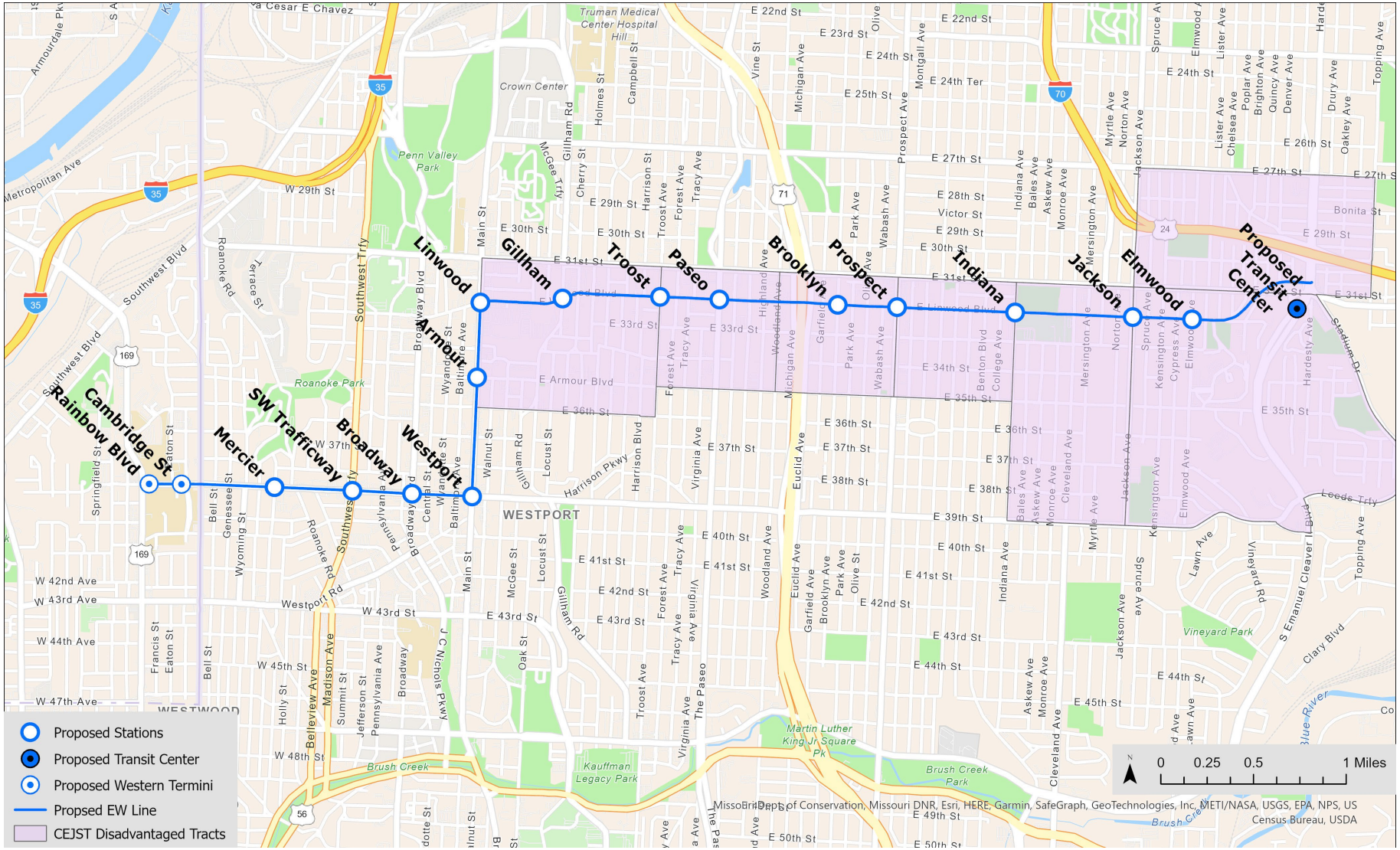

Source: Climate and Economic Justice Screening Tool (CEJST)