

Study Area Map

West Side Traffic Planning Study | City of Cumberland, Maryland

Project #21-13-BR

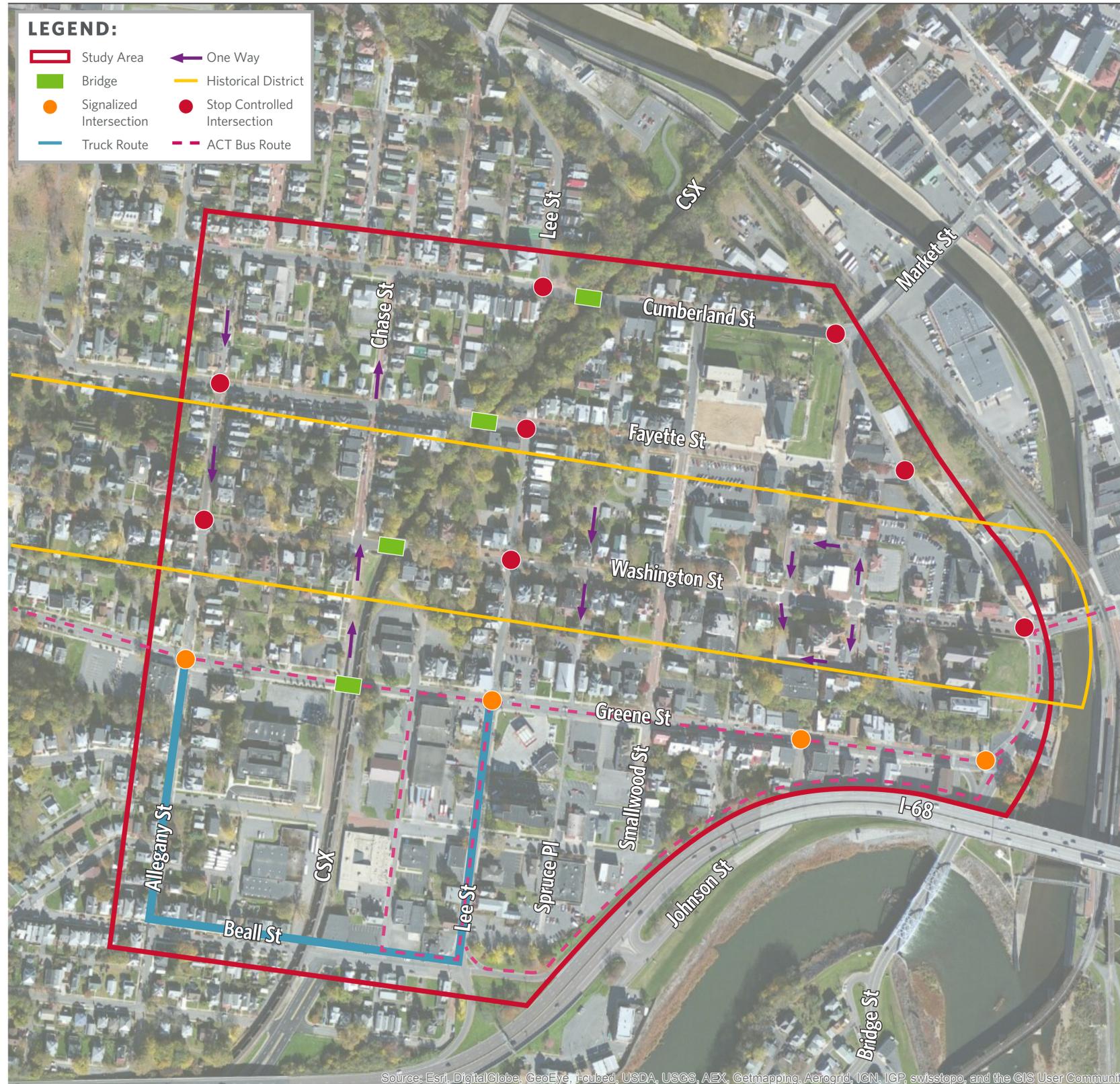


Study Purpose

The purpose of this traffic planning study is to evaluate the current traffic patterns for vehicles, cyclists, pedestrians, and rail to balance the needs of each mode to provide the most-feasible, cost-effective solutions to address the bridge structural deficiencies in the West Side neighborhood.

Study Goals

- Increase vertical clearance at Greene Street
- Comply with modern railroad bridge replacement standards
- Improve neighborhood circulation
- Maintain neighborhood connectivity and historical integrity



Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Crossing Photos



Cumberland Street Bridge



Fayette Street Bridge



Washington Street Bridge



Greene Street Bridge

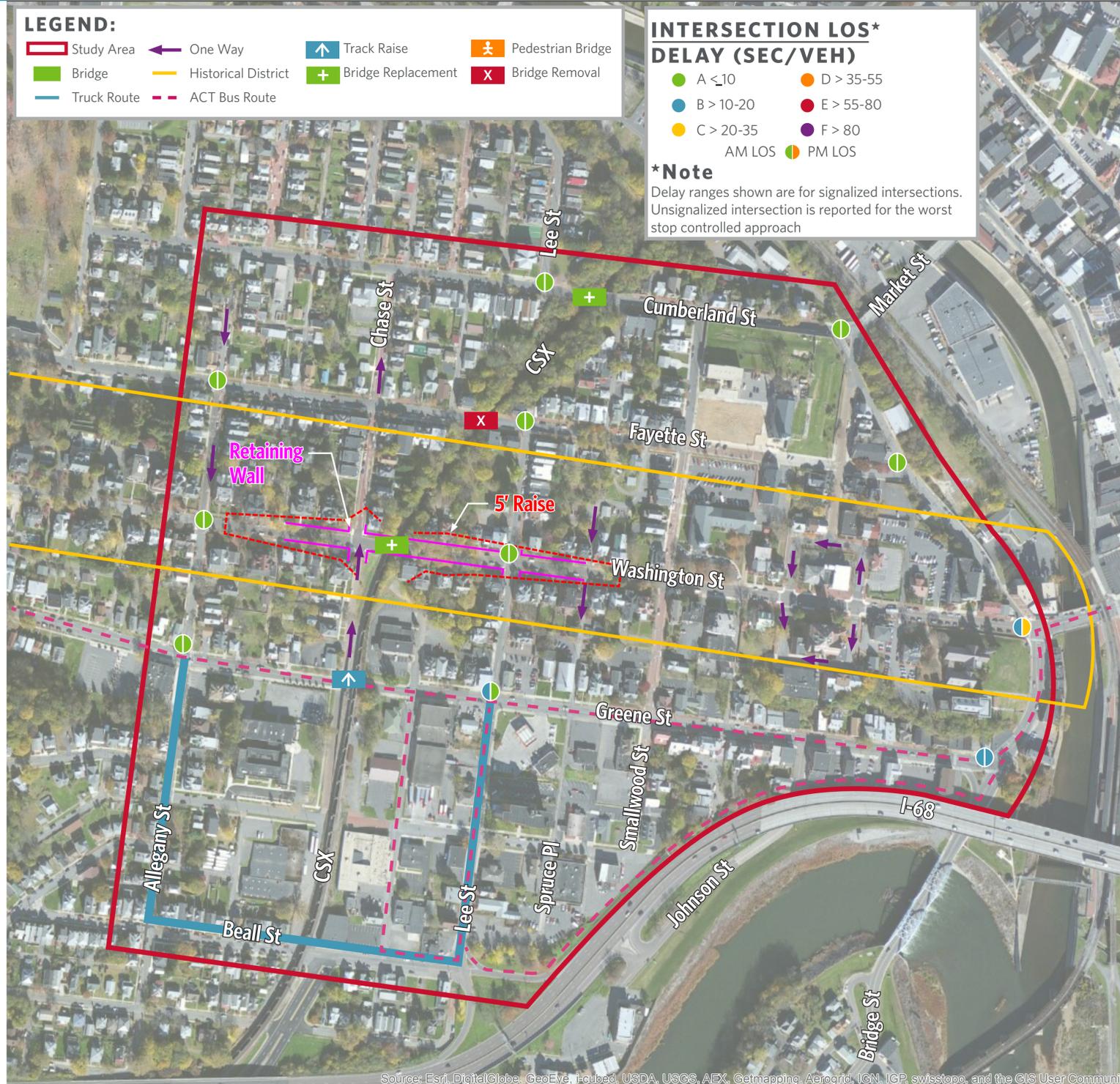
Stakeholder Goals

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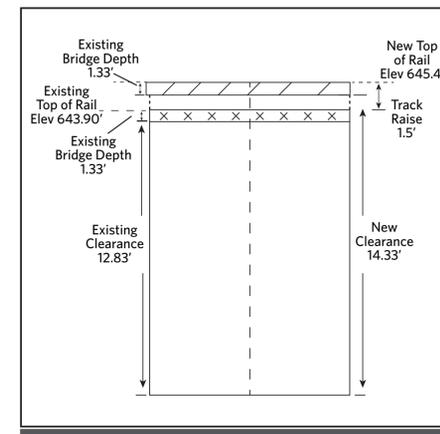
2035 Build Alternative 1 Detail

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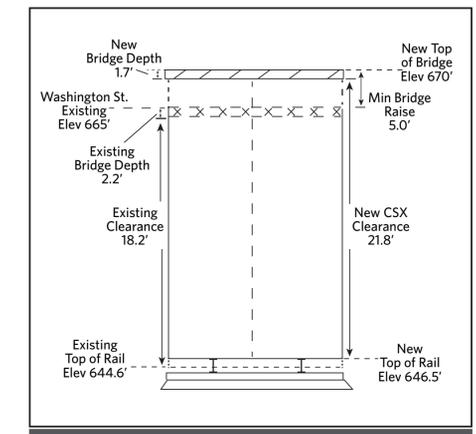
DESCRIPTION

- Improve Greene Street clearance to 21'-9" via a 1'-6" track raise
- Replace Washington Street Bridge and improve clearance to 21'-9"
- Remove Fayette Street Bridge from service
- Replace Cumberland Street Bridge
- Estimated Cost: \$3.80 M



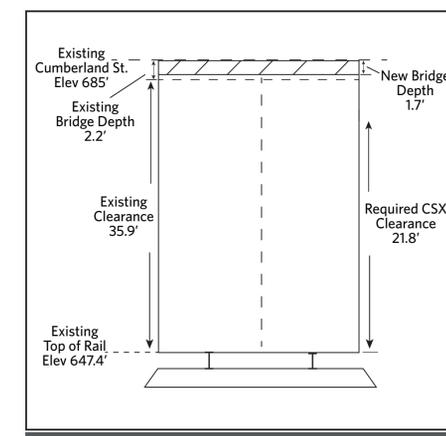
Greene St. Profile

Note: No Bridge Replacement only 1.5' track raise
Figures not to Scale



Washington St. Profile

Figures not to Scale



Cumberland St. Profile

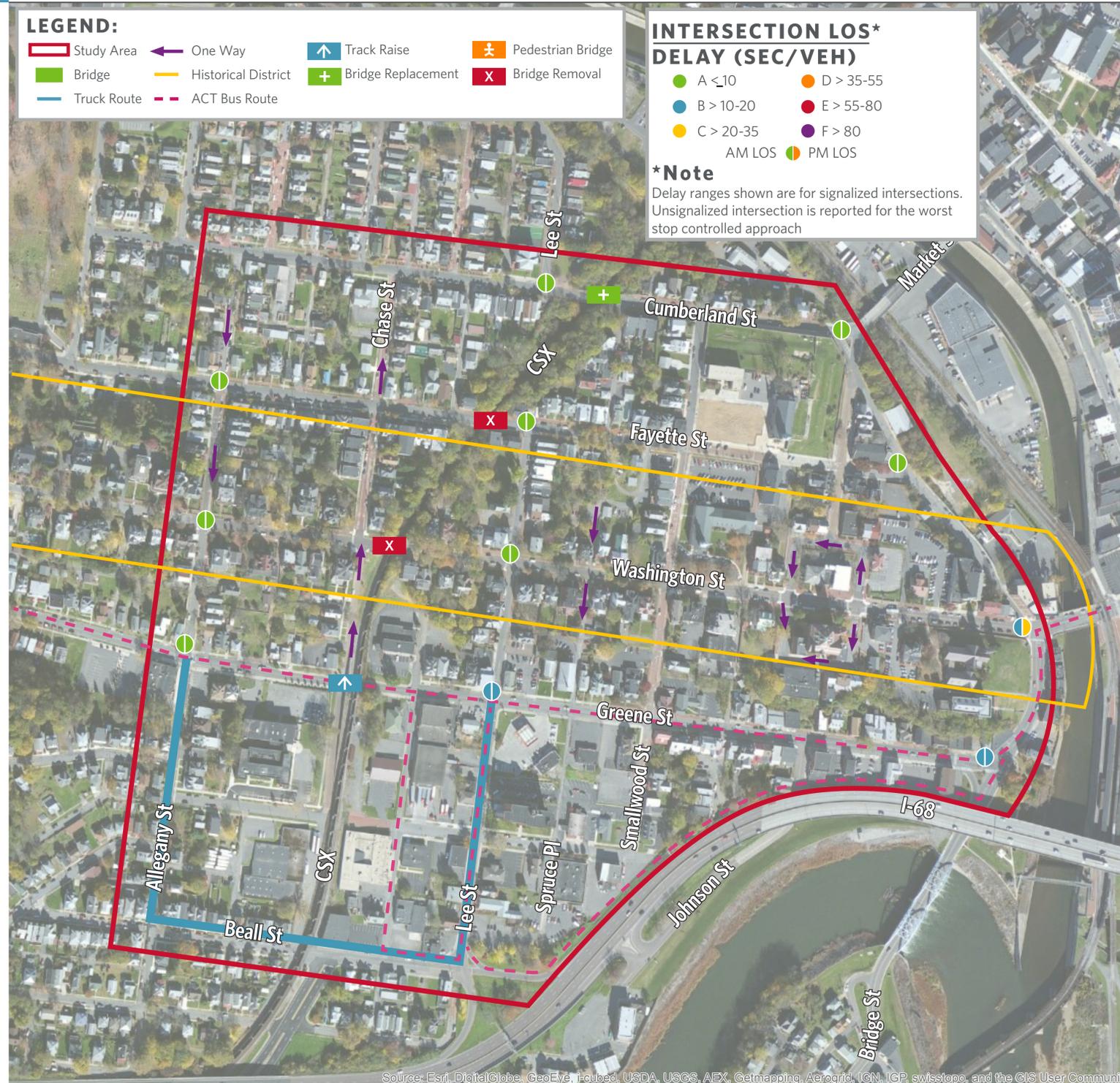
Note: No bridge raise, only replacement in place, top of bridge to remain at 685' elevation. Necessary 21'-9" clearance already achieved.
Figures not to Scale

IMPACTS:

- A 21'-9" clearance over track requires a 5'-0" raise of the Washington Street Bridge. Retaining walls approximately 11'-0" in height would be required on the west side of the bridge to minimize property acquisitions

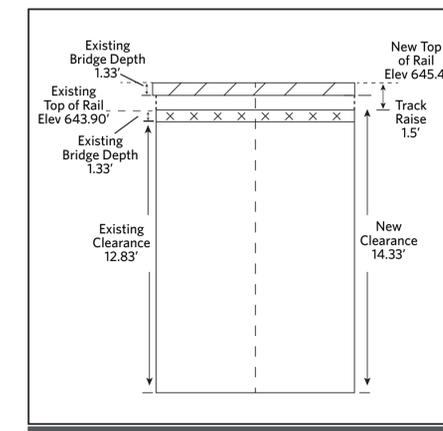
2035 Build Alternative 3 Detail

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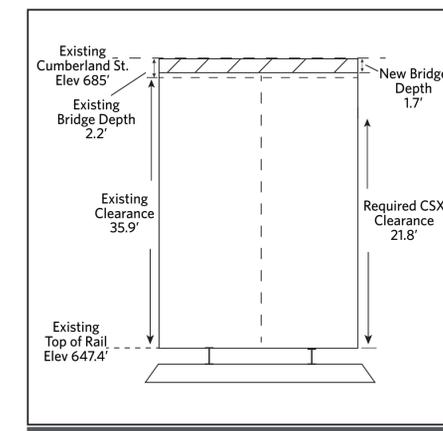
DESCRIPTION

- Improve Greene Street clearance to 21'-9" via a 1'-6" track raise
- Remove both Washington Street and Fayette Street Bridges from service
- Replace Cumberland Street Bridge
- Estimated Cost: \$3.44 M



Greene St. Profile

Note: No Bridge Replacement only 1.5' track raise
Figures not to Scale

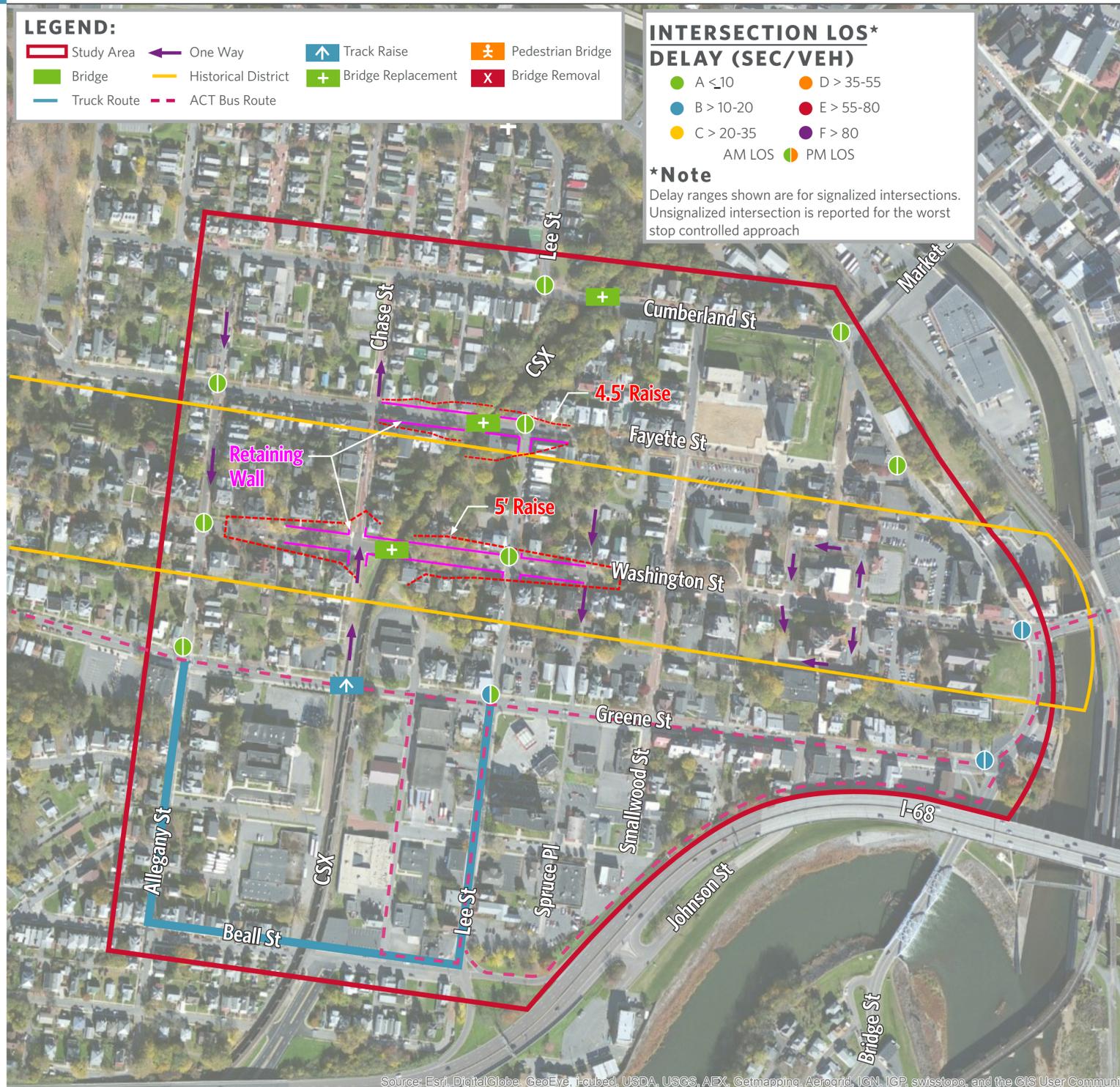


Cumberland St. Profile

Note: No bridge raise, only replacement in place, top of bridge to remain at 685' elevation. Necessary 21'-9" clearance already achieved.
Figures not to Scale

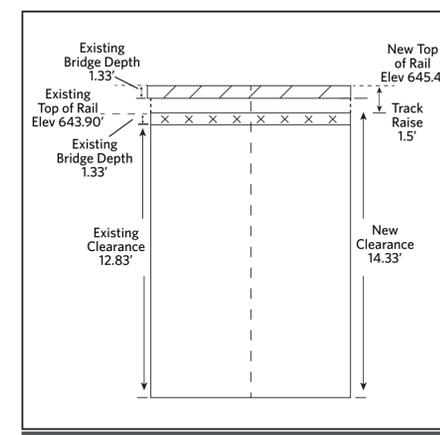
2035 Build Alternative 4 Detail

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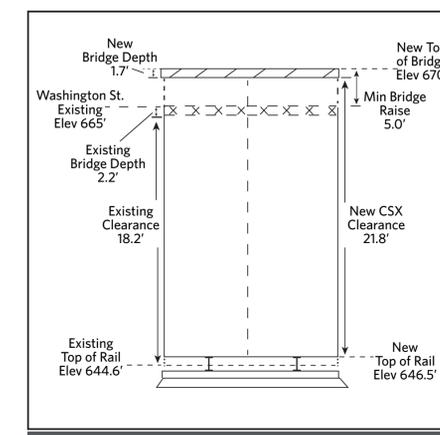
DESCRIPTION

- Improve Greene Street clearance to 21'-9" via a 1'-6" track raise
- Replace both Washington Street and Fayette Street Bridges and improve clearance to 21'-9"
- Replace Cumberland Street Bridge
- Estimated Cost: \$4.22 M



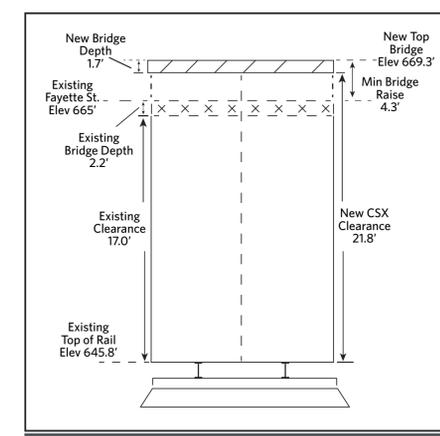
Greene St. Profile

Note: No Bridge Replacement only 1.5' track raise
Figures not to Scale



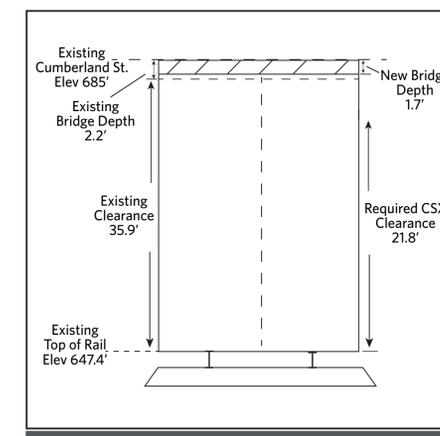
Washington St. Profile

Figures not to Scale



Fayette St. Profile

Figures not to Scale



Cumberland St. Profile

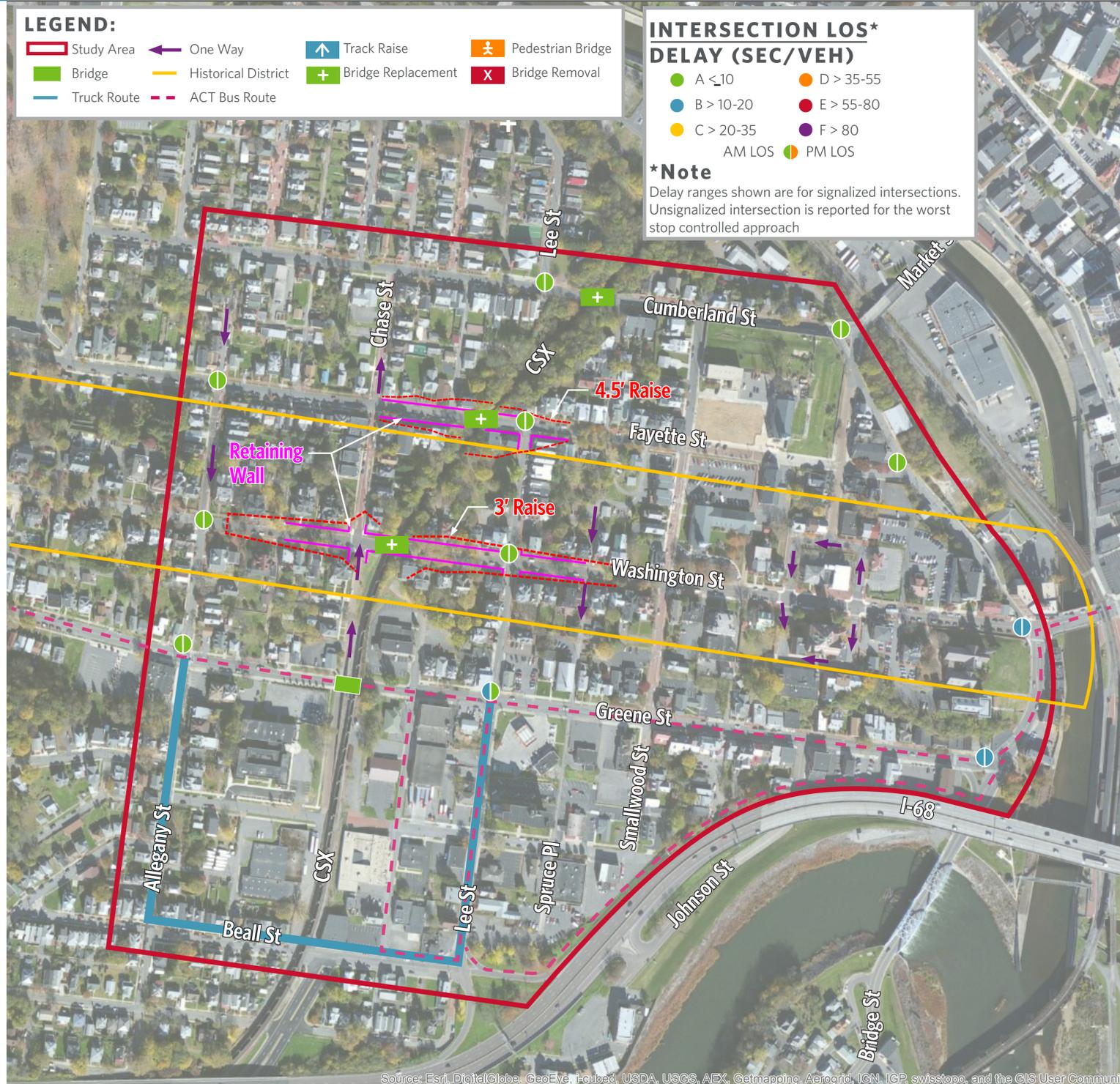
Note: No bridge raise, only replacement in place, top of bridge to remain at 685' elevation. Necessary 21'-9" clearance already achieved.
Figures not to Scale

IMPACTS:

- A 21'-9" clearance over track requires a 5'-0" raise of the Washington Street Bridge. Retaining walls approximately 11'-0" in height would be required on the west side of the bridge to minimize property acquisitions
- A 21'-9" clearance over track requires an approximately 4'-4" raise of the Fayette Street Bridge. Retaining walls approximately 6'-0" in height would be required adjacent to the bridge to minimize property acquisitions.

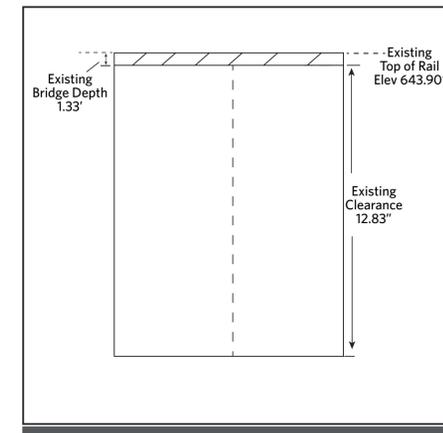
2035 Build Alternative 5 Detail

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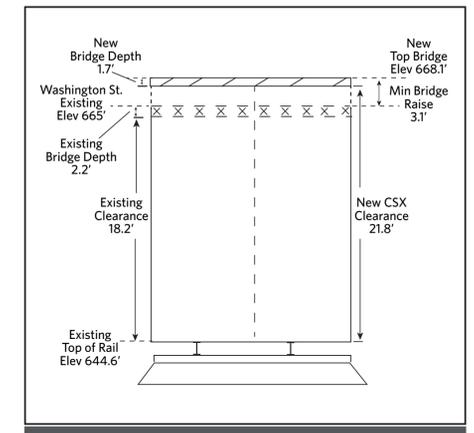
DESCRIPTION

- No modifications at Greene Street
- Replace both Washington Street and Fayette Street Bridges and improve clearance to 21'-9"
- Replace Cumberland Street Bridge
- Estimated Cost: \$4.05 M



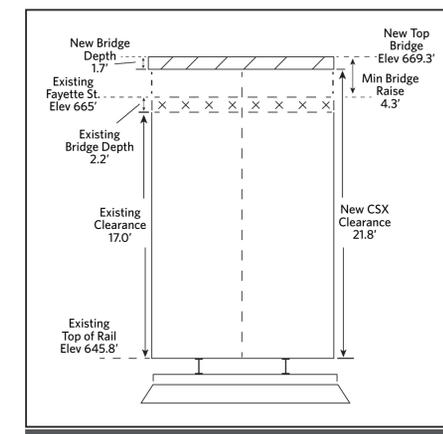
Greene St. Profile

Note: Greene St. left as existing
Figures not to Scale



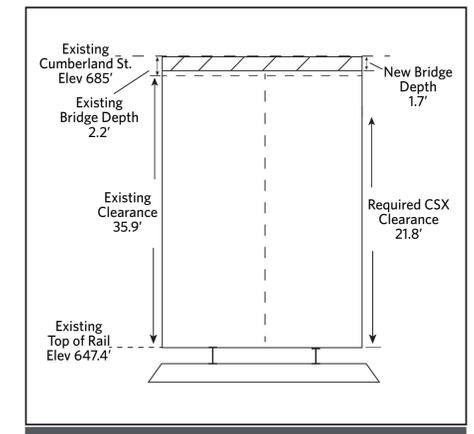
Washington St. Profile

Figures not to Scale



Fayette St. Profile

Figures not to Scale



Cumberland St. Profile

Note: No bridge raise, only replacement in place, top of bridge to remain at 685' elevation. Necessary 21'-9" clearance already achieved.
Figures not to Scale

IMPACTS:

- A 21'-9" clearance over track requires an approximately 3'-1" raise of the Washington Street Bridge. Retaining walls approximately 9'-0" in height would be required on the west side of the bridge to minimize property acquisitions
- A 21'-9" clearance over track requires an approximately 4'-4" raise of the Fayette Street Bridge. Retaining walls approximately 6'-0" in height would be required adjacent to the bridge to minimize property acquisitions.