



I-83 East Shore
Section 2 & 3:

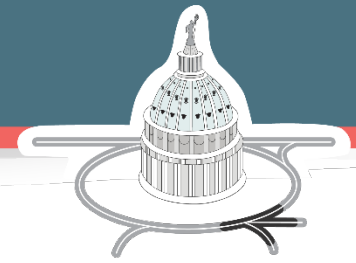
2022
Project Update



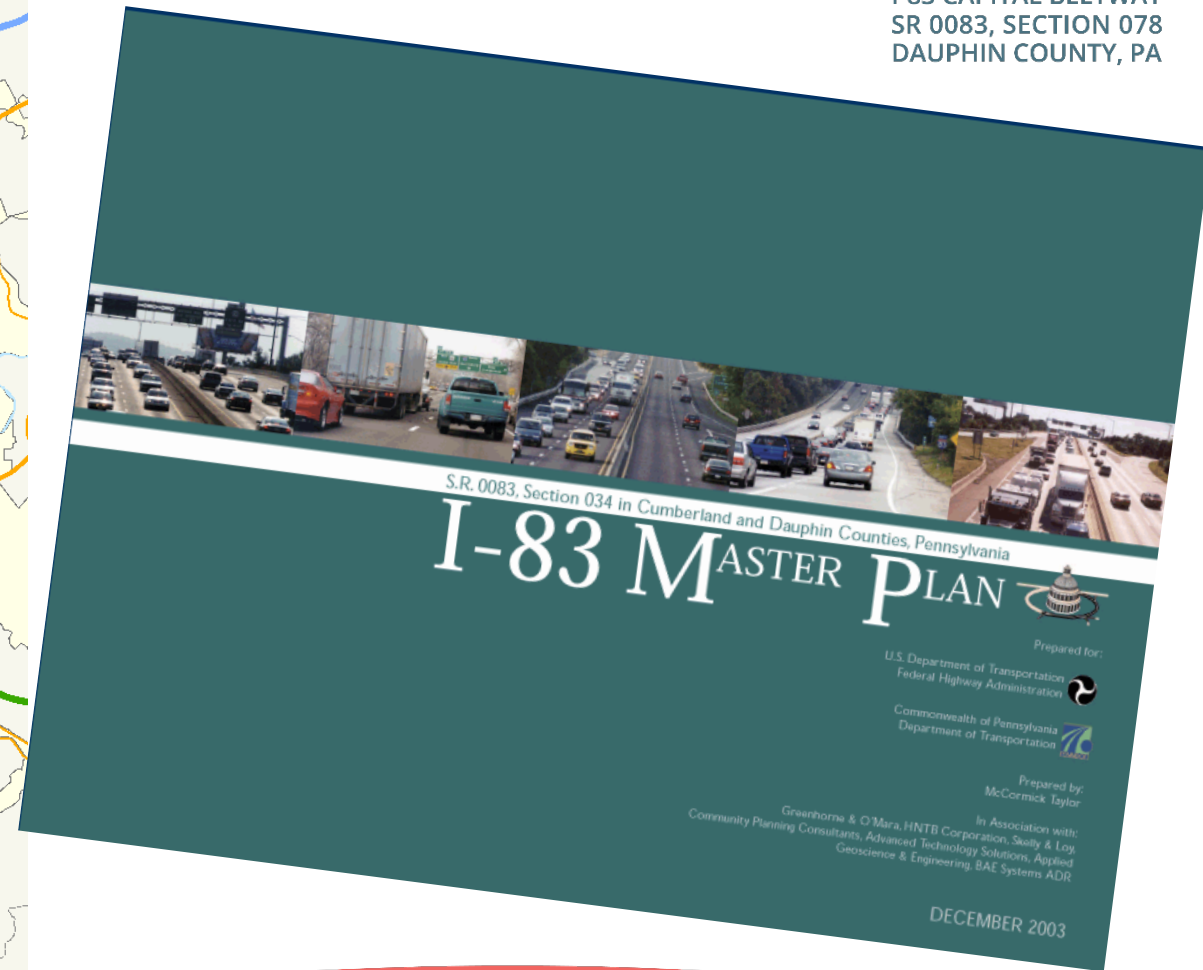
16th Annual ASHE Harrisburg /
PennDOT Engineering District 8-0 /
PTC Joint Conference
April 26, 2022



History of Need for Improvements

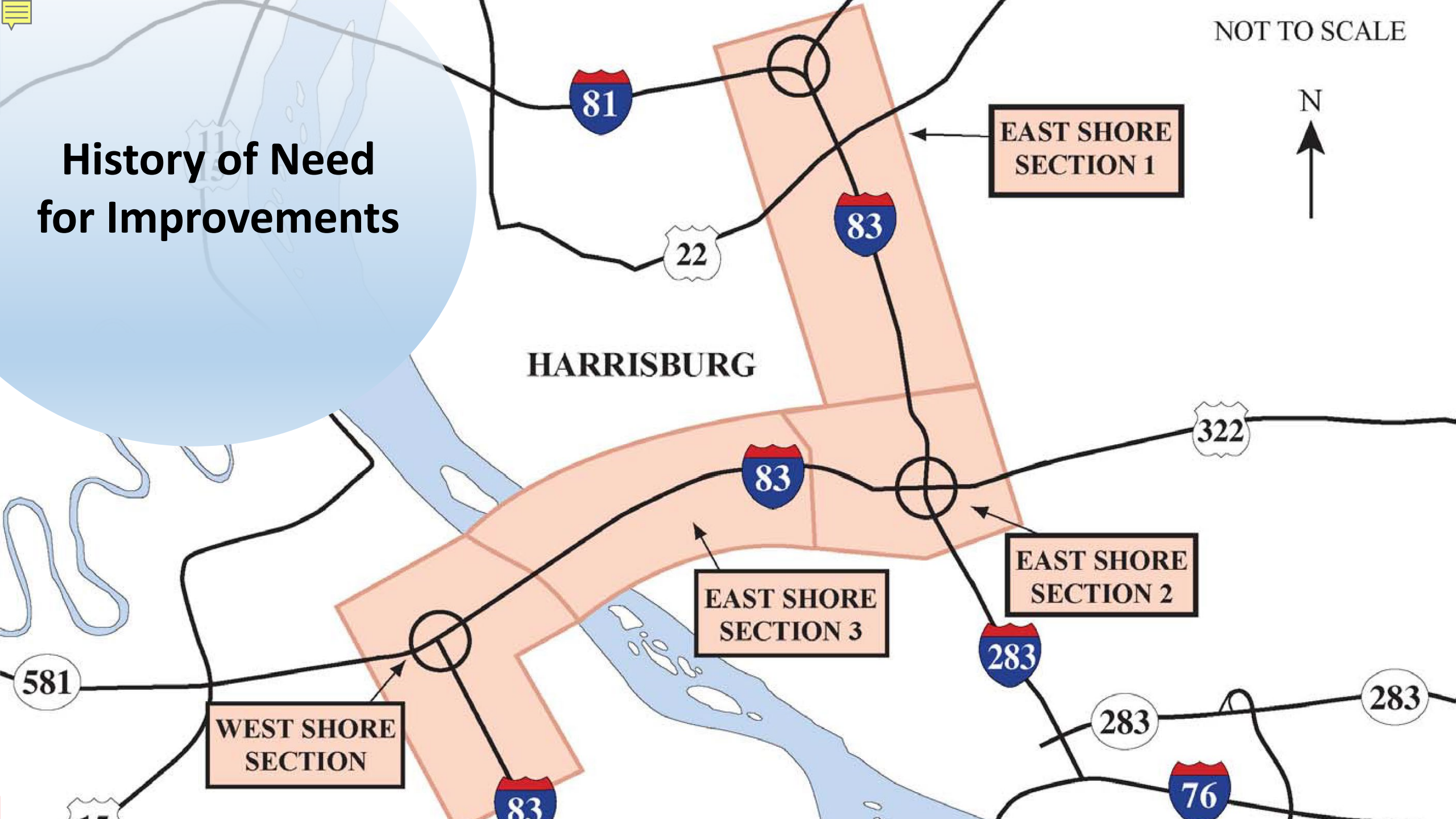


HARRISBURG
I-83 CAPITAL BELTWAY
SR 0083, SECTION 078
DAUPHIN COUNTY, PA



History of Need for Improvements

NOT TO SCALE





SR 0083-078/I-83 EAST SHORE SECTION

Project Update



HARRISBURG
I-83 CAPITAL BELTWAY
SR 0083, SECTION 078
DAUPHIN COUNTY, PA

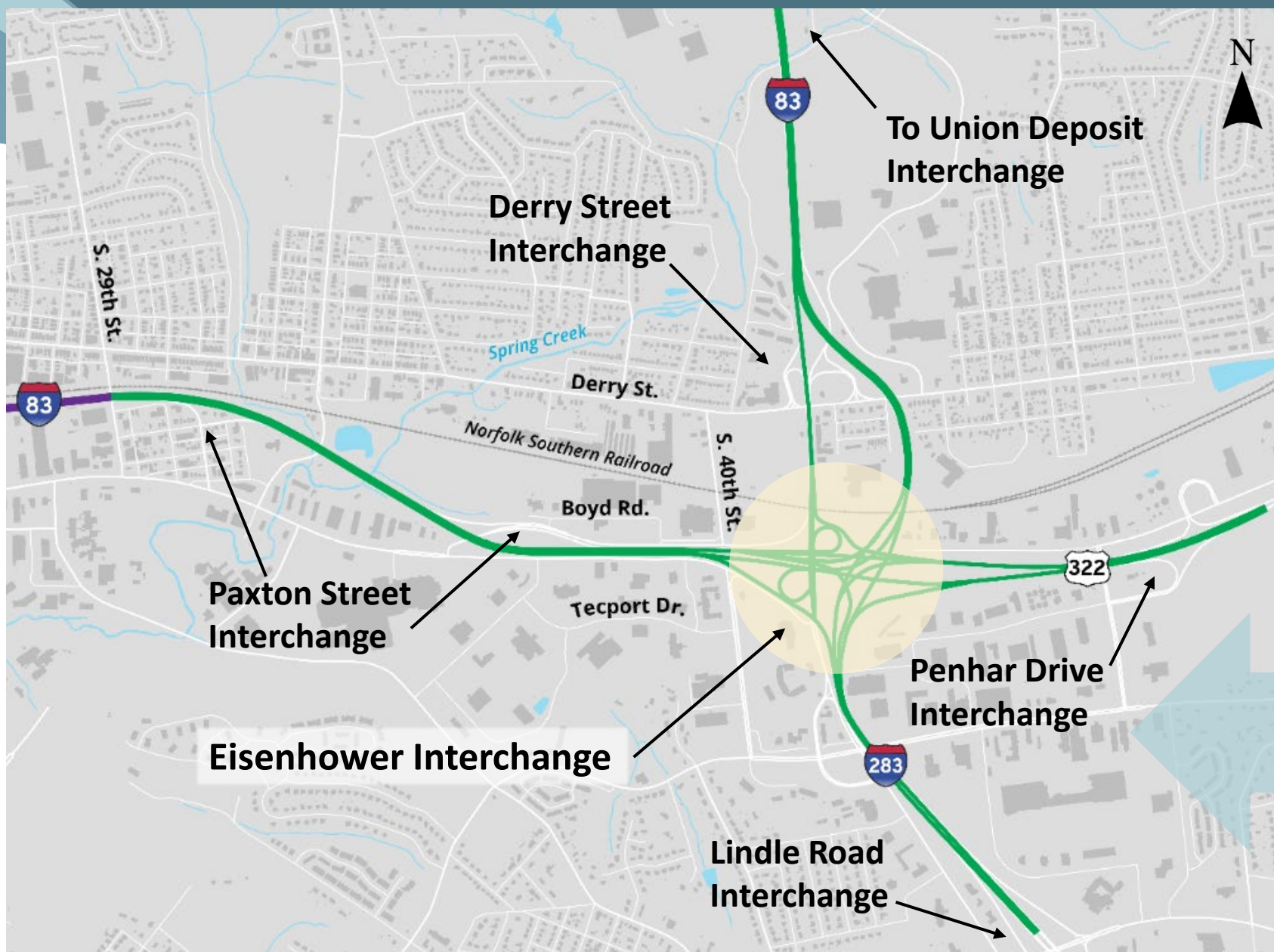
ESS2 / SR 0083 Sec 078

- History of Need for Improvements
- Project Overview
- Magnitude of Improvements
- Challenges / Complexities
- Sequence of Construction
- Contract 1 Project Update



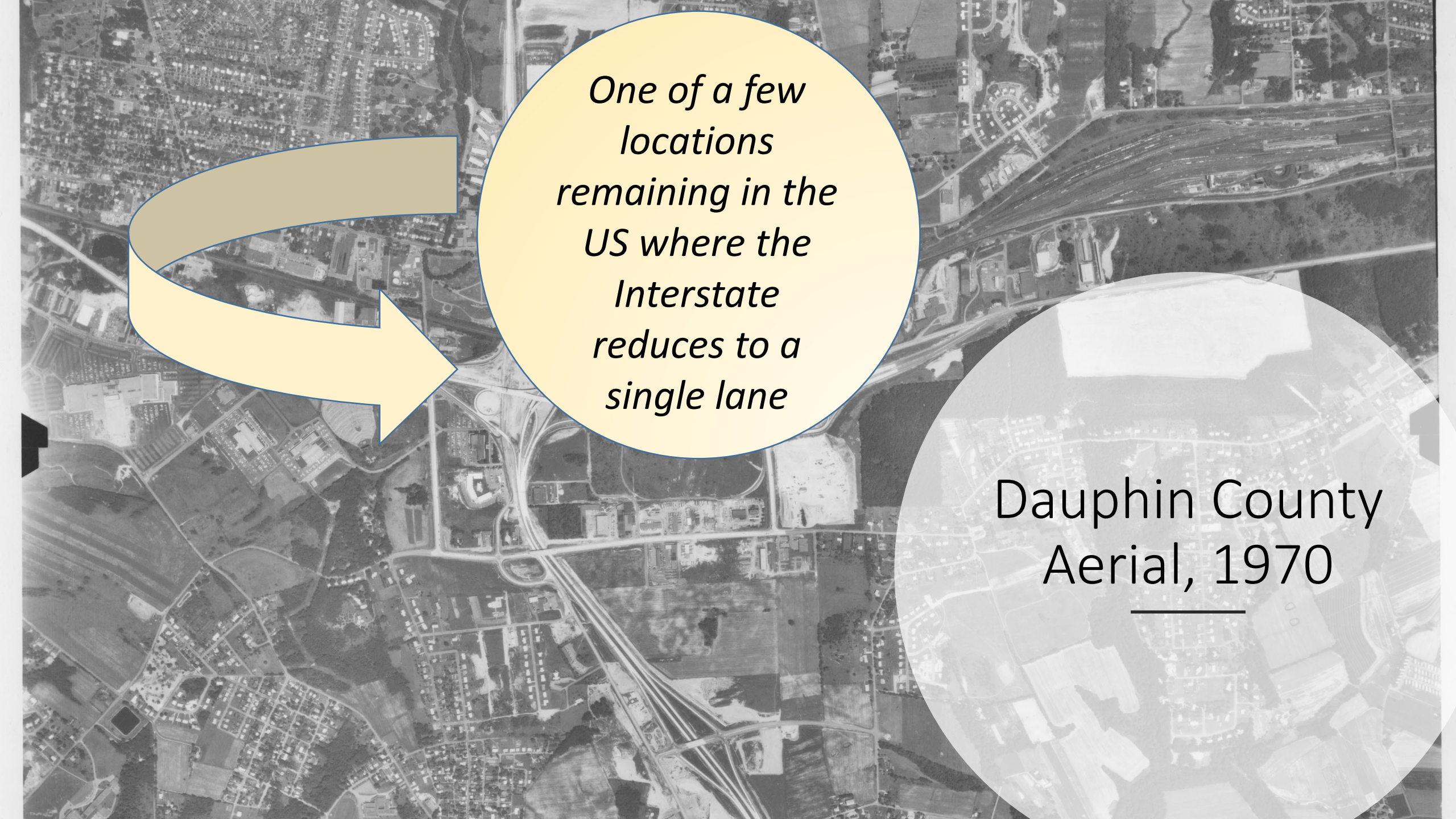


HARRISBURG
I-83 CAPITAL BELTWAY
SR 0083, SECTION 078
DAUPHIN COUNTY, PA



I-83 East Shore Section 2 also known as...

*SR 0083 Sec 078,
Eisenhower Interchange
Reconstruction Project*



*One of a few
locations
remaining in the
US where the
Interstate
reduces to a
single lane*

Dauphin County
Aerial, 1970



Need #1: Deterioration of the Existing Roadway

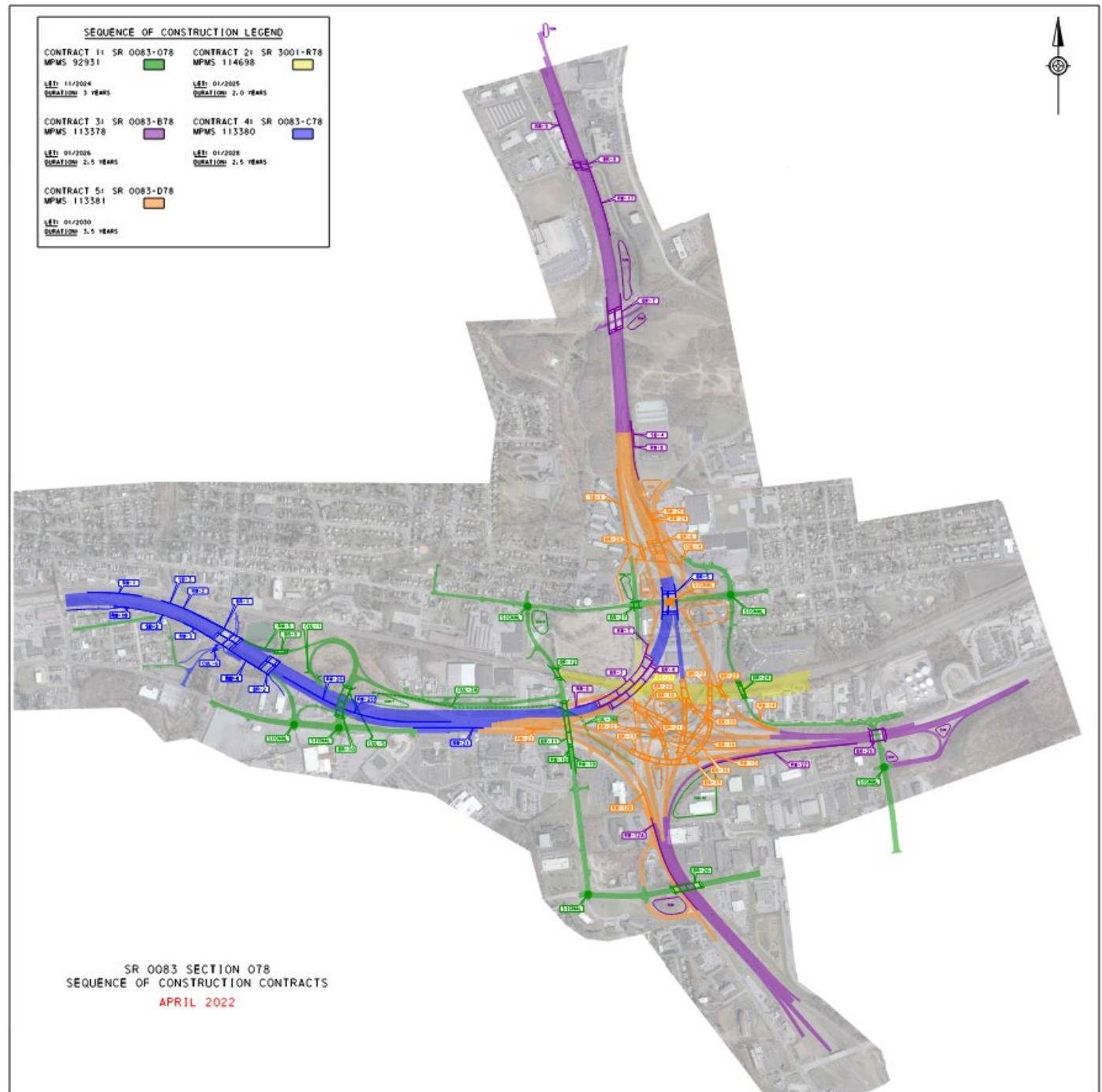
Need #2: Congested Conditions from High Traffic Volumes

Need #3: Operational Safety Concerns from Substandard Design Characteristics

Need #4: Existing Local Roadway Network Impedes North/South Mobility

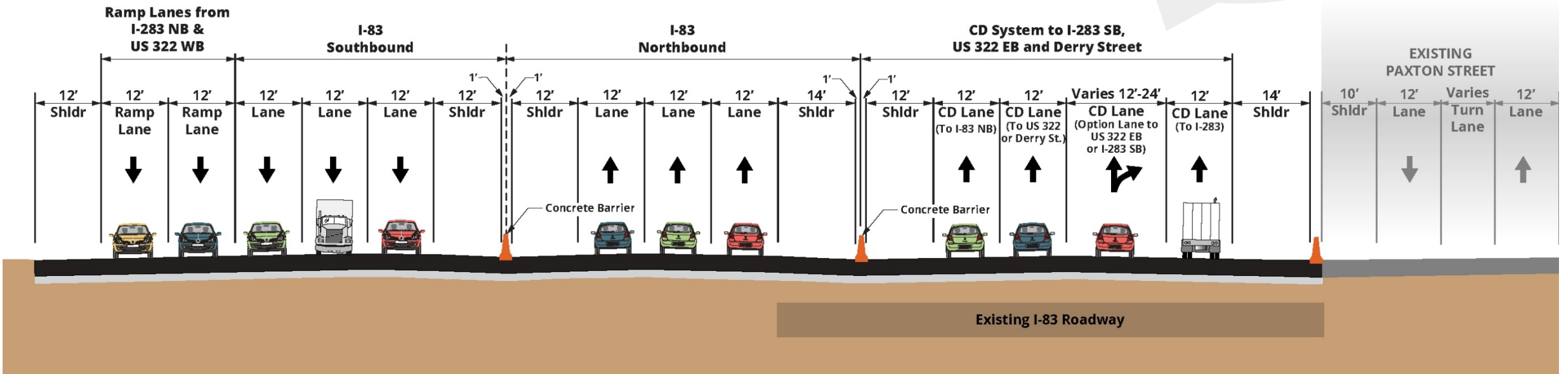
Project Needs

Project Overview



I-83 Mainline Typical at CD System

236' in Width





- Total Reconfiguration of 3 Interchanges
 - Eisenhower (System to System)
 - Paxton Street
 - Derry Street (Single Point Urban Intr.)
- Partial Modification to 3 Interchanges
 - Union Deposit
 - Penhar Drive
 - Lindle Road
- 28 Ramps between the 6 interchanges

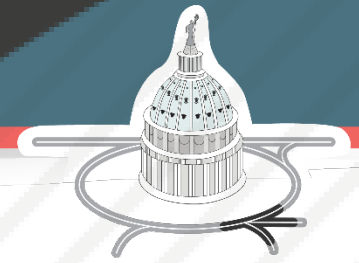
Magnitude of
Improvements



Magnitude of Improvements

- 29 Bridges
 - 16 Curve Girder Structures
 - 7 Bridges over Norfolk Southern
 - 1 Bridge carrying Norfolk Southern Tracks
 - SF of all Bridges Combined = ~825,000 SF (18 .9 Acres)
- 22 Retaining Walls
 - Total Wall Length = ~13,000 LF
- 7 Culverts
 - ~2500 LF of Culverts to be Jack & Bored
 - Largest Box Culvert at $\frac{3}{4}$ Mile in Length, up to 30' Deep
- 4 Noise Walls
- 36 Overhead Sign Structures

Magnitude of Improvements



HARRISBURG
I-83 CAPITAL BELTWAY
SR 0083, SECTION 078
DAUPHIN COUNTY, PA

Number of Lane Miles

Ramps & CD
System = 16 Miles

Local Roadways
= 14.6 Miles

Total of
64
Lane Miles

Mainline (I-83 /
I-283 / US 322) =
33.4 Miles

Magnitude of Improvements

Bicycle and Pedestrian Accommodations

- New Sidewalk = ~15,520'
- Reconstructed Sidewalk = ~2,180'
- Shared Use Path = ~2,150'
- Bike Lanes = ~2,115'
- ADA Ramps = 110'



Challenges / Complexities

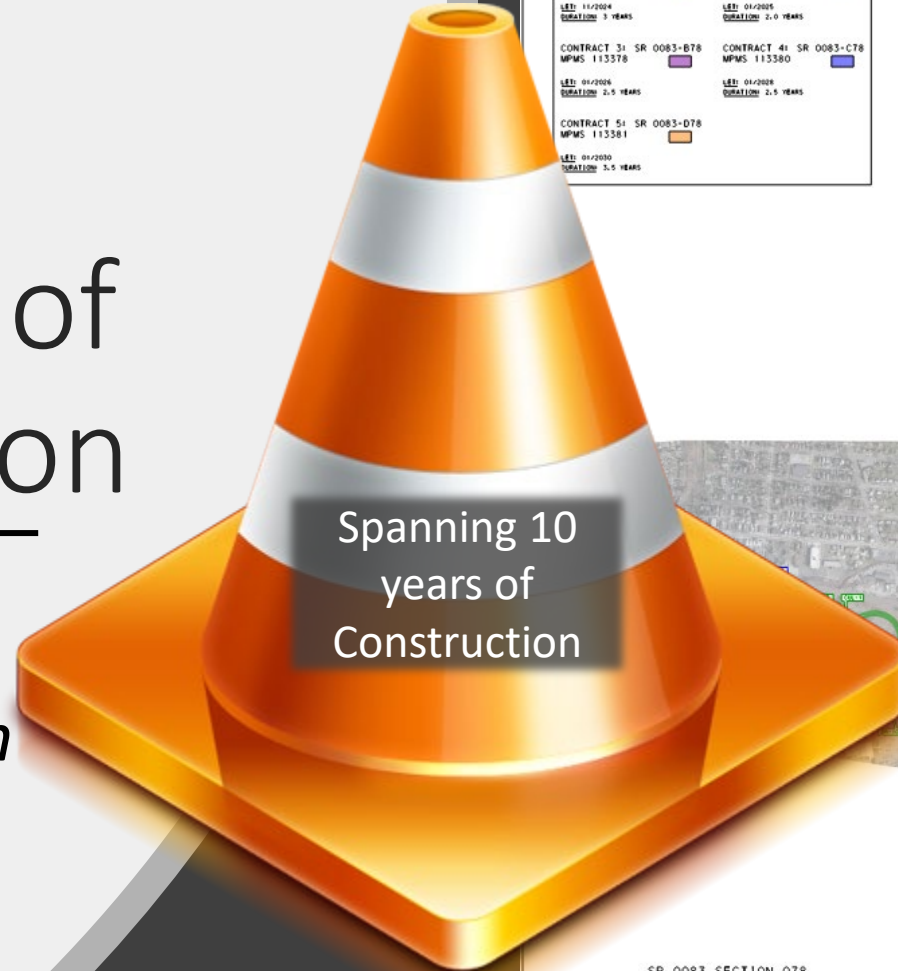
- Maintenance and Protection of Traffic
- Constructability
- Geotech – Karst Conditions
- Utilities
- Hazardous Waste
- Railroad
- Environmental Resources



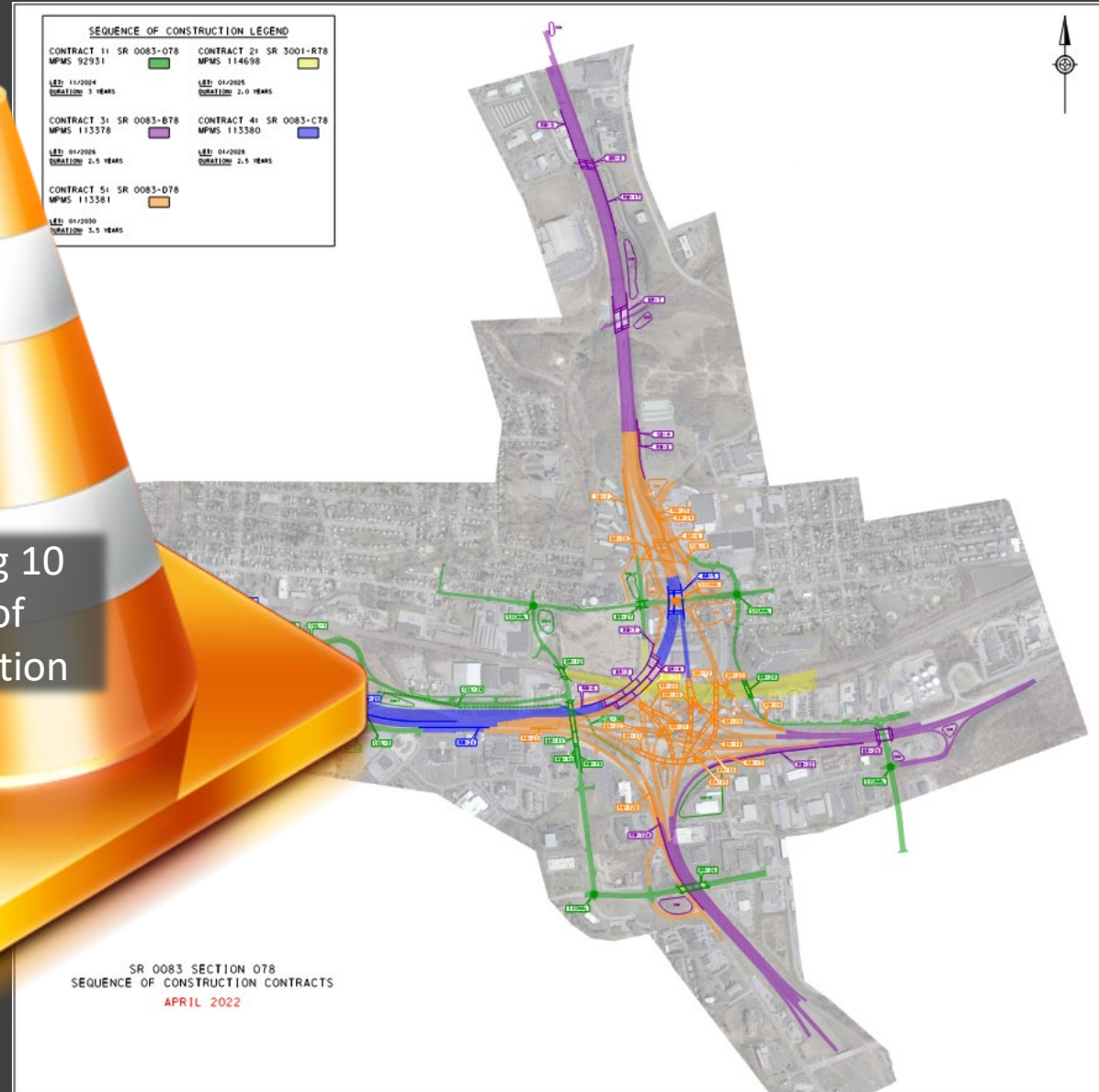


Sequence of Construction

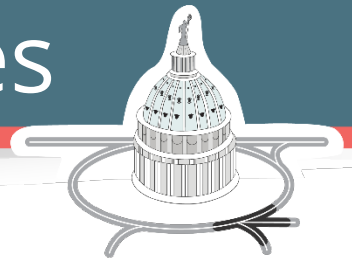
Five Construction Contracts



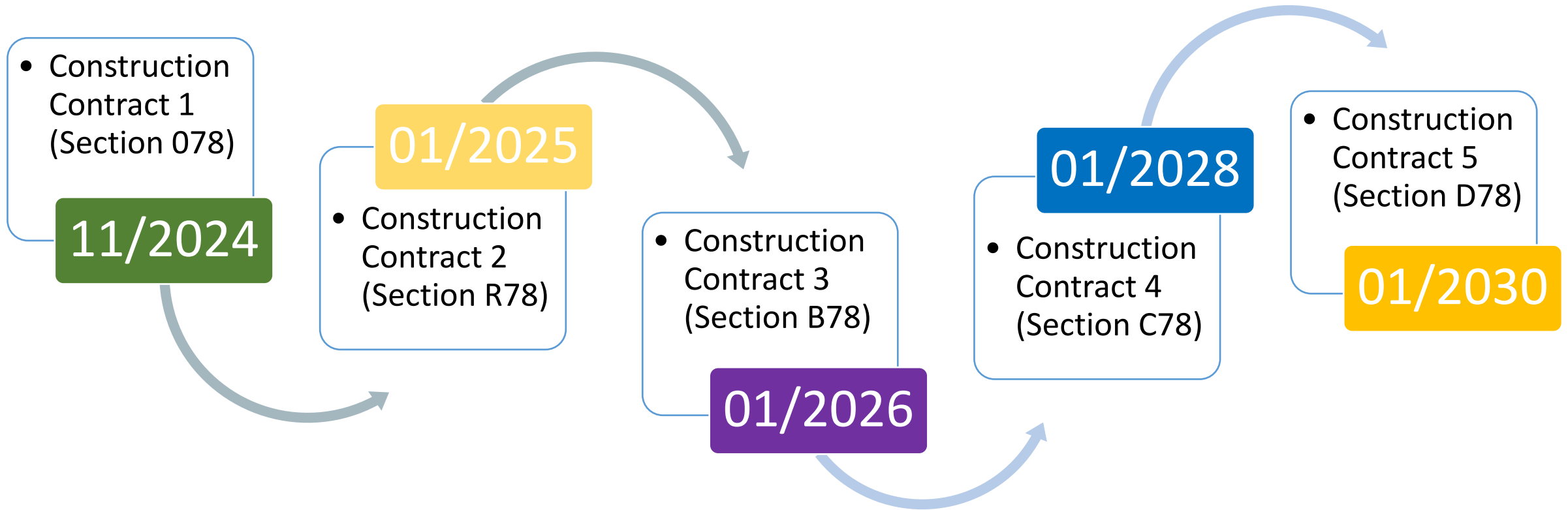
Spanning 10
years of
Construction



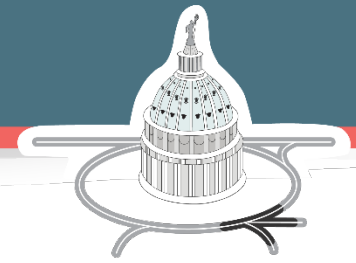
Construction Contract Timeline: Let Dates



HARRISBURG
I-83 CAPITAL BELTWAY
SR 0083, SECTION 078
DAUPHIN COUNTY, PA



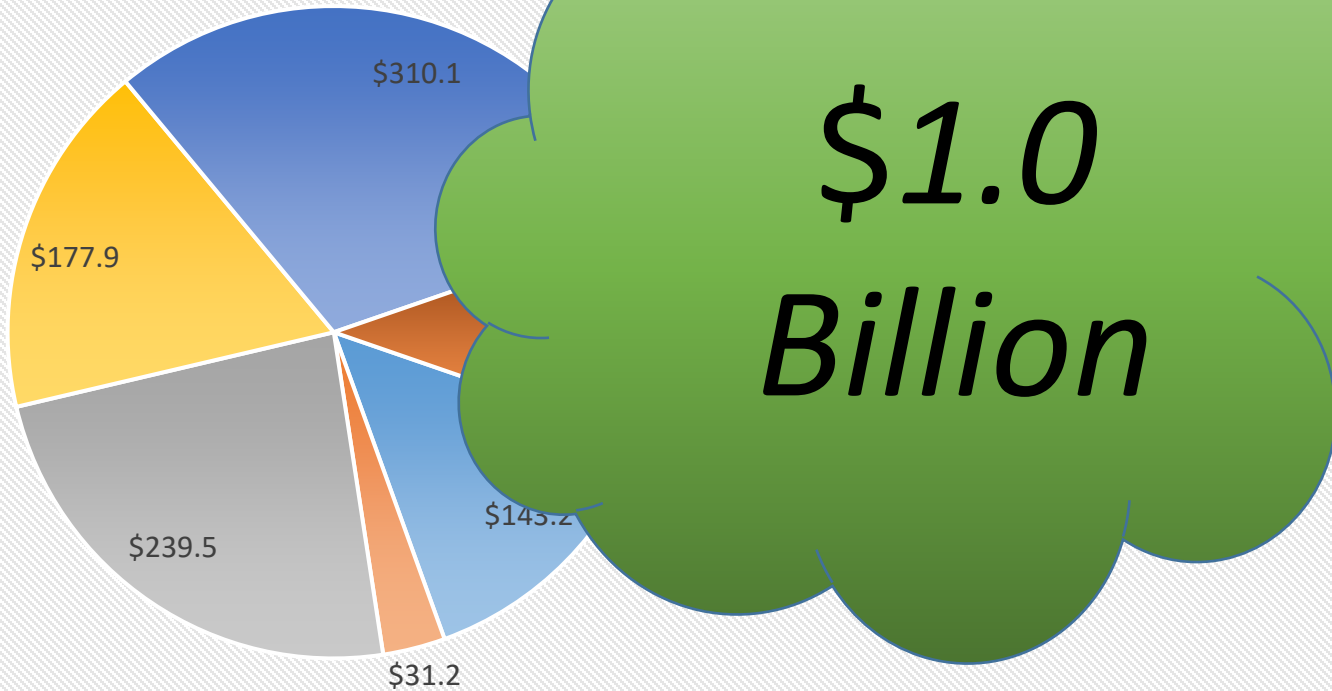
Construction Cost Estimate



HARRISBURG
I-83 CAPITAL BELTWAY
SR 0083, SECTION 078
DAUPHIN COUNTY, PA

Preliminary Cost Estimate as of 2021

(with Inflation)



\$1.0 Billion

Biggest Project to date for PennDOT District 8-0

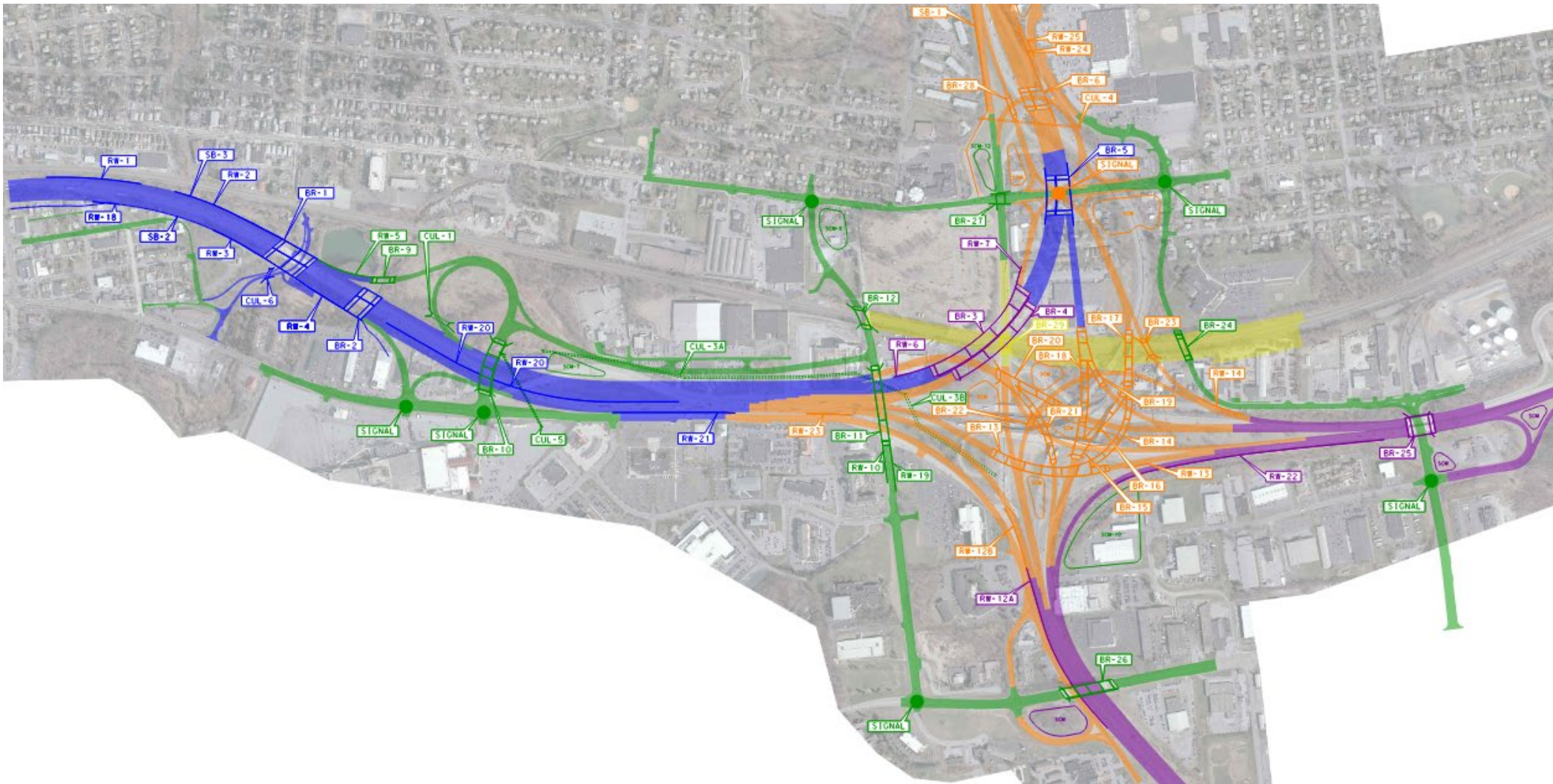
- Total Construction Cost Contract 1 (Sec 078)
- Total Construction Cost Contract 2 (Sec R78)
- Total Construction Cost Contract 3 (Sec B78)
- Total Construction Cost Contract 4 (Sec C78)
- Total Construction Cost Contract 5 (Sec D78)
- Right-of-Way
- Utilities

*Dollars in Millions

Contract 1, Section 078 – Project Update



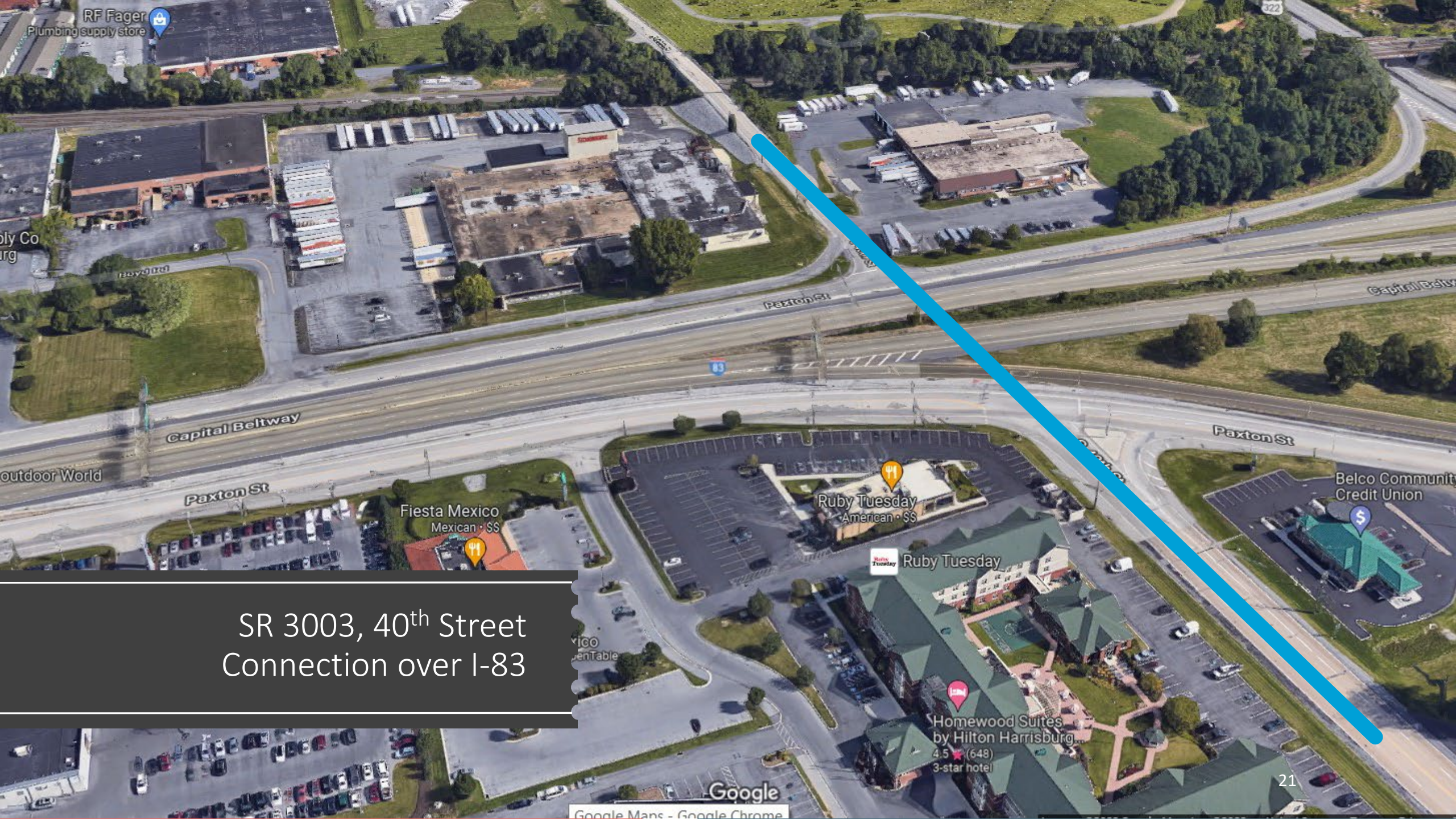
HARRISBURG
I-83 CAPITAL BELTWAY
SR 0083, SECTION 078
DAUPHIN COUNTY, PA



Contract 1, Section 078

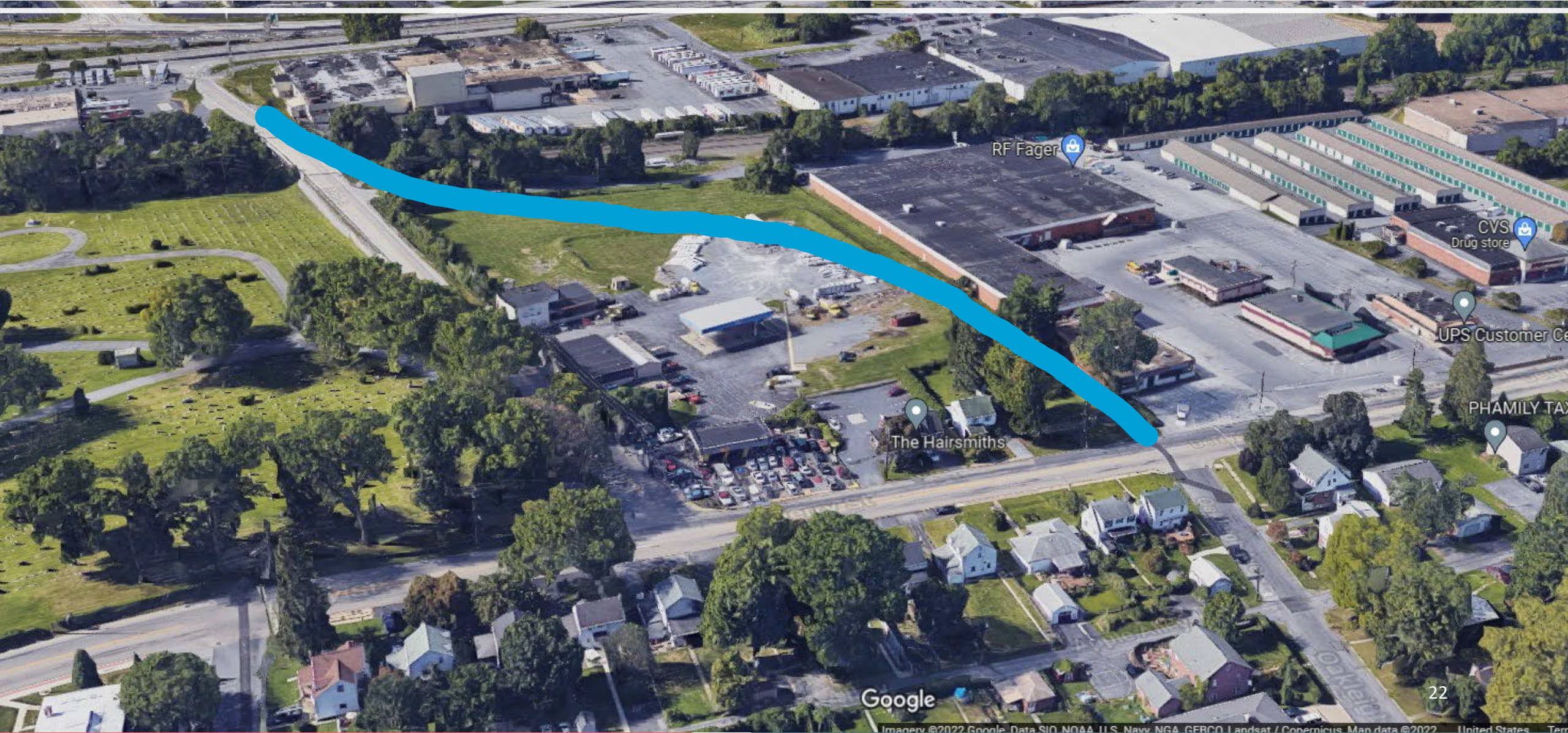
- Additional access options to local roadway network
 - Connection of 40th Street over I-83
 - New State Route, east of the Eisenhower Interchange
- Other Roadway Improvements on...
 - Derry Street
 - Paxton Street
 - Penhar Drive
 - Chambers Hill Road
 - East Park Drive
- Paxton Street Interchange
- Traffic Signals
 - 12 locations, including 3 New
- Proposed Structures:
 - 7 Bridges (2 over Norfolk Southern RR)
 - 2 Retaining Walls
 - 5 Culverts





SR 3003, 40th Street
Connection over I-83

Realigned 40th Street, New Traffic Signal at Oakleigh Ave



New State Route: SR 3037, Paxton Street Connector





First National Bank

Seema Boutique
Clothing store

Mid Penn Bank

Capital Beltway

Capital Beltway

York St

S 43rd St

Pennsylvania
Employees Benefit

SR 3037 New
Intersection with
East Park Drive

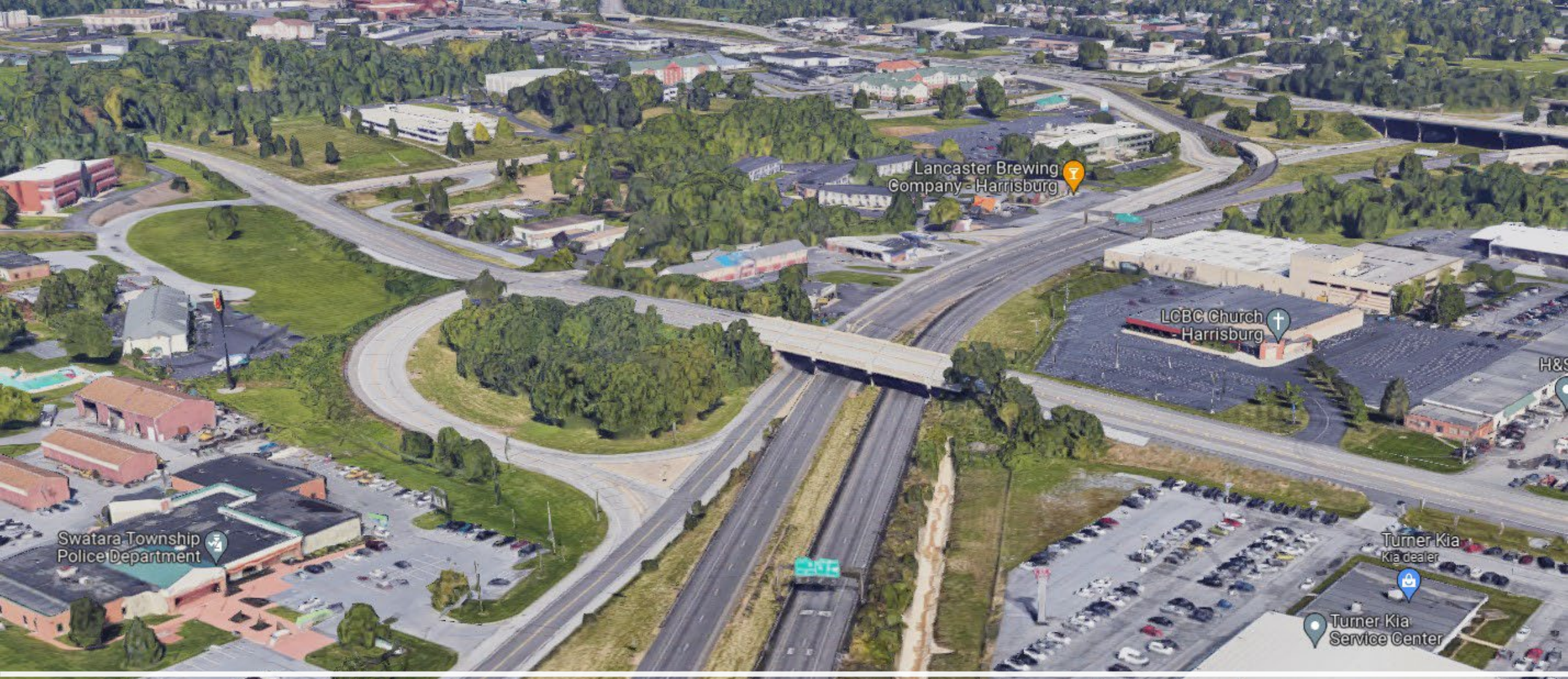
24

Google



SR 3012, Derry Street over Eisenhower Blvd. (Future SR 283 SB)

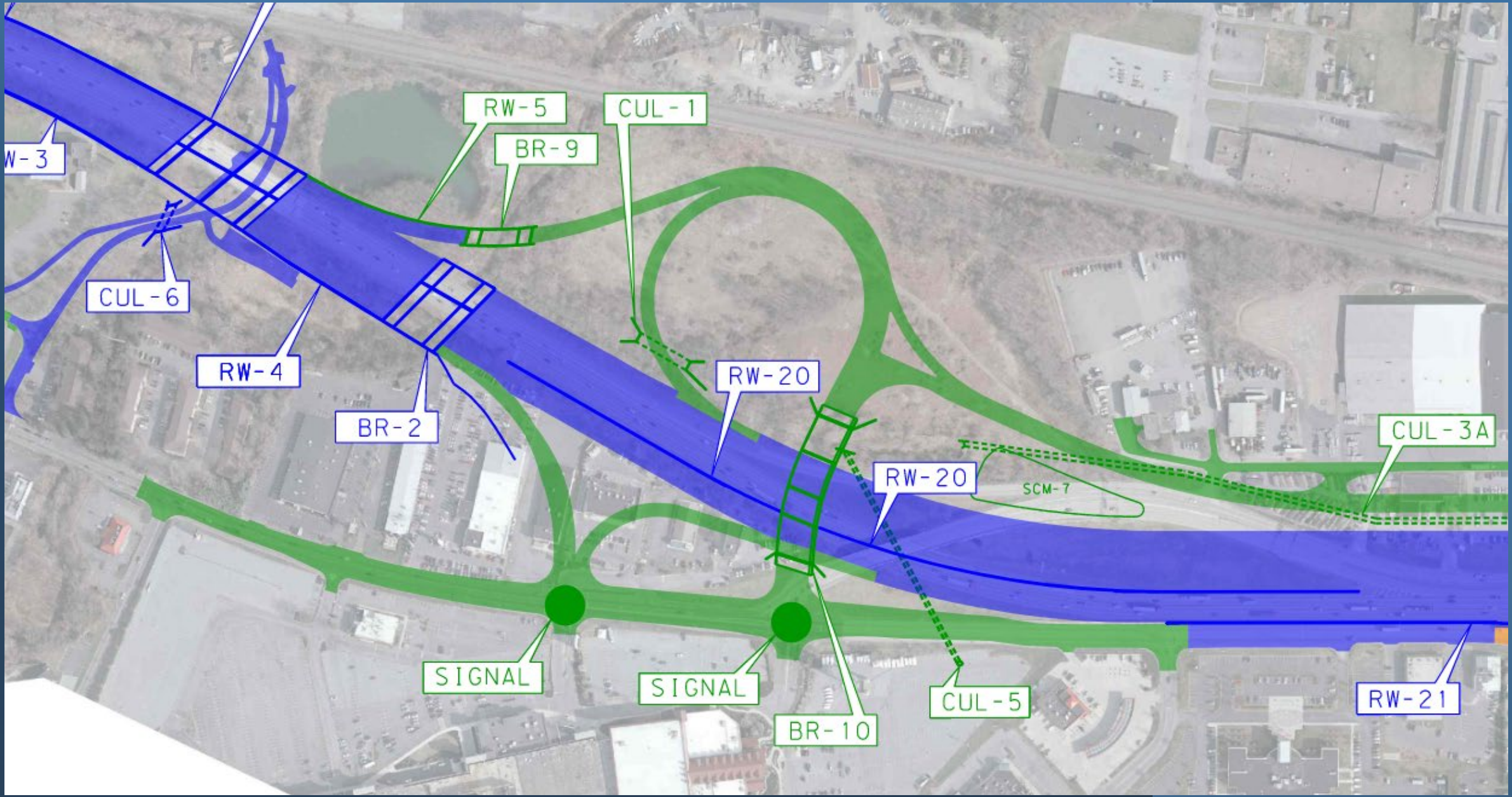
- Temporary Road/Bridge to Construct
- Interim Ramp Configuration – SPUI not until Contract 5
- Eisenhower Blvd – Converted to Southbound only

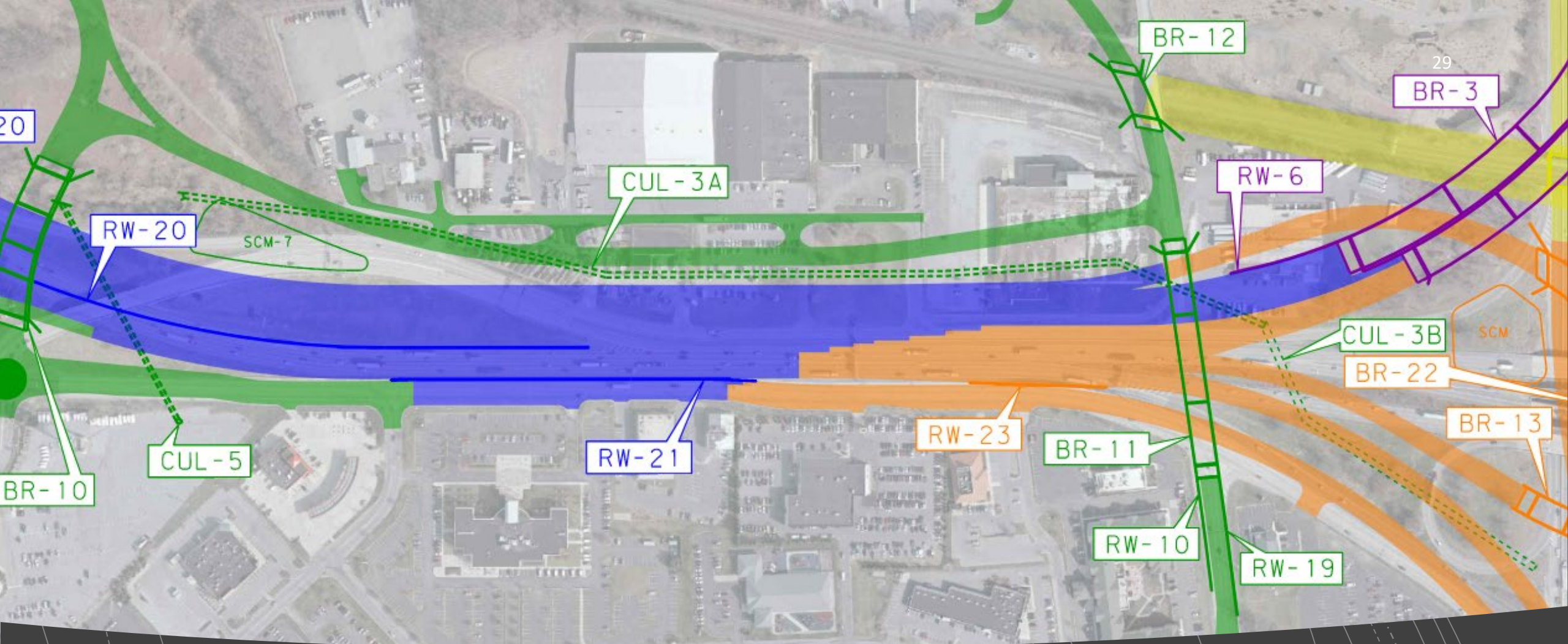


SR 3006, Chambers Hill Road

Paxton Street Interchange







Culverts 3A, 3B & 5



Thank You!