

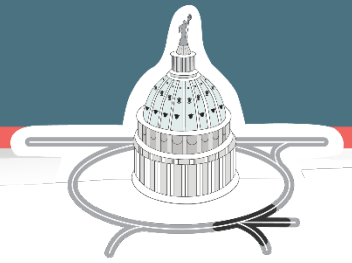
HARRISBURG
I-83 CAPITAL BELTWAY
SR 0083, SECTION 079
DAUPHIN COUNTY, PA

I-83 EAST SHORE SECTION

Chris Deats, PE and
Justin McCarthy, PE, SE
ASHE / PennDOT D8 / PTC Conference
April 26th, 2022

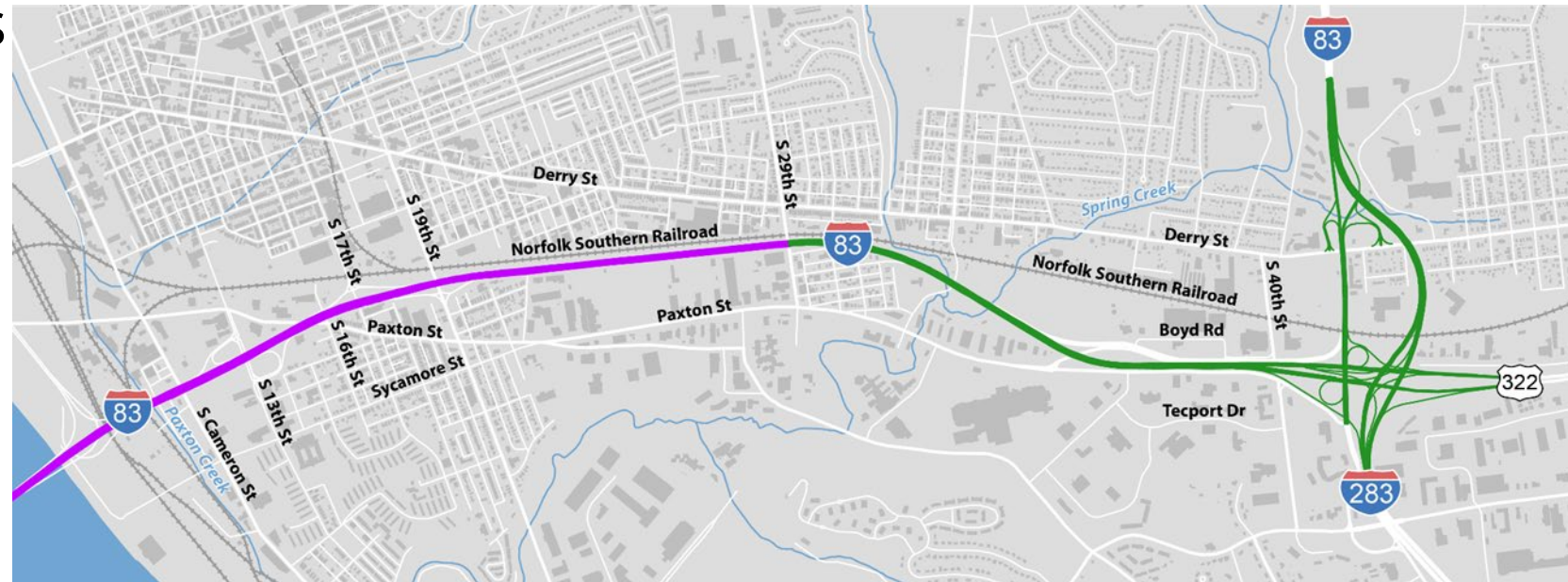
HNTB

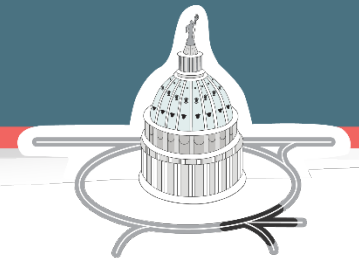




SR 0083 Section 079 Project

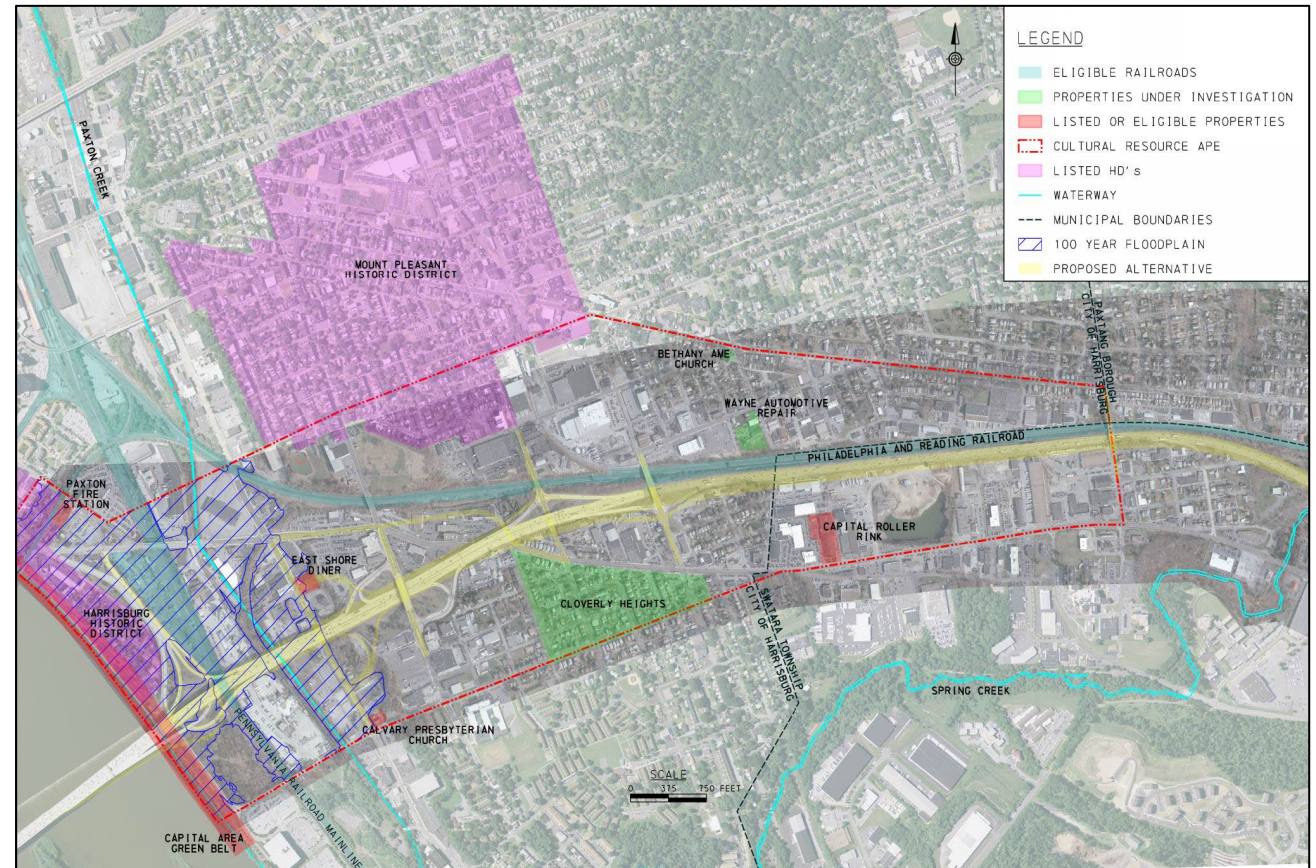
- Design Considerations
- Alternatives
- Traffic Model
- Construction Projects
- Contract #1
- Traffic Control
- Structures
- Timeline



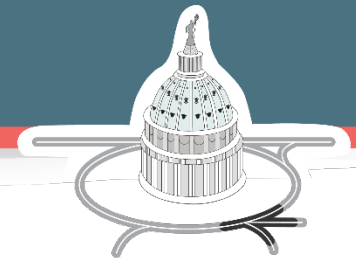


Project Considerations

- NS Railroad
- Historic Properties
- River Floodplain
- EJ Communities
- North-South Ped/Bike Connections
- Tie-in to Viaduct

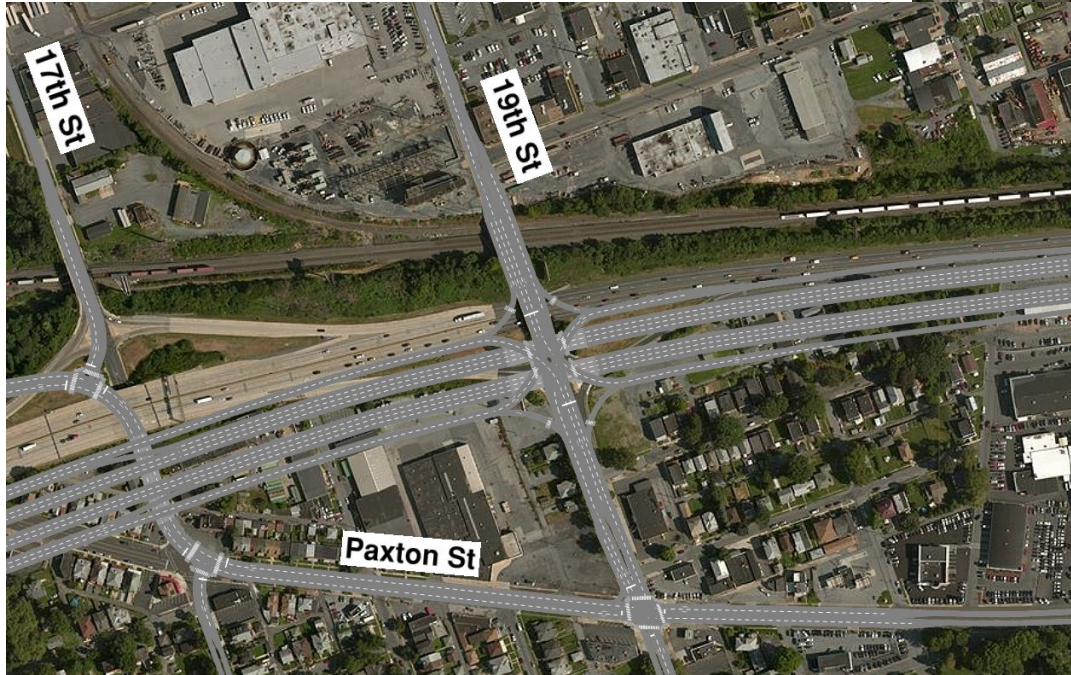


SR 0083 Sec 079 Overview

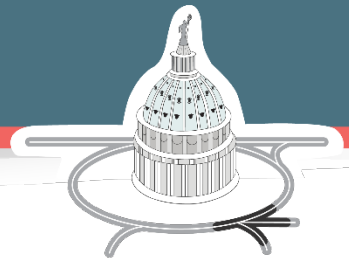


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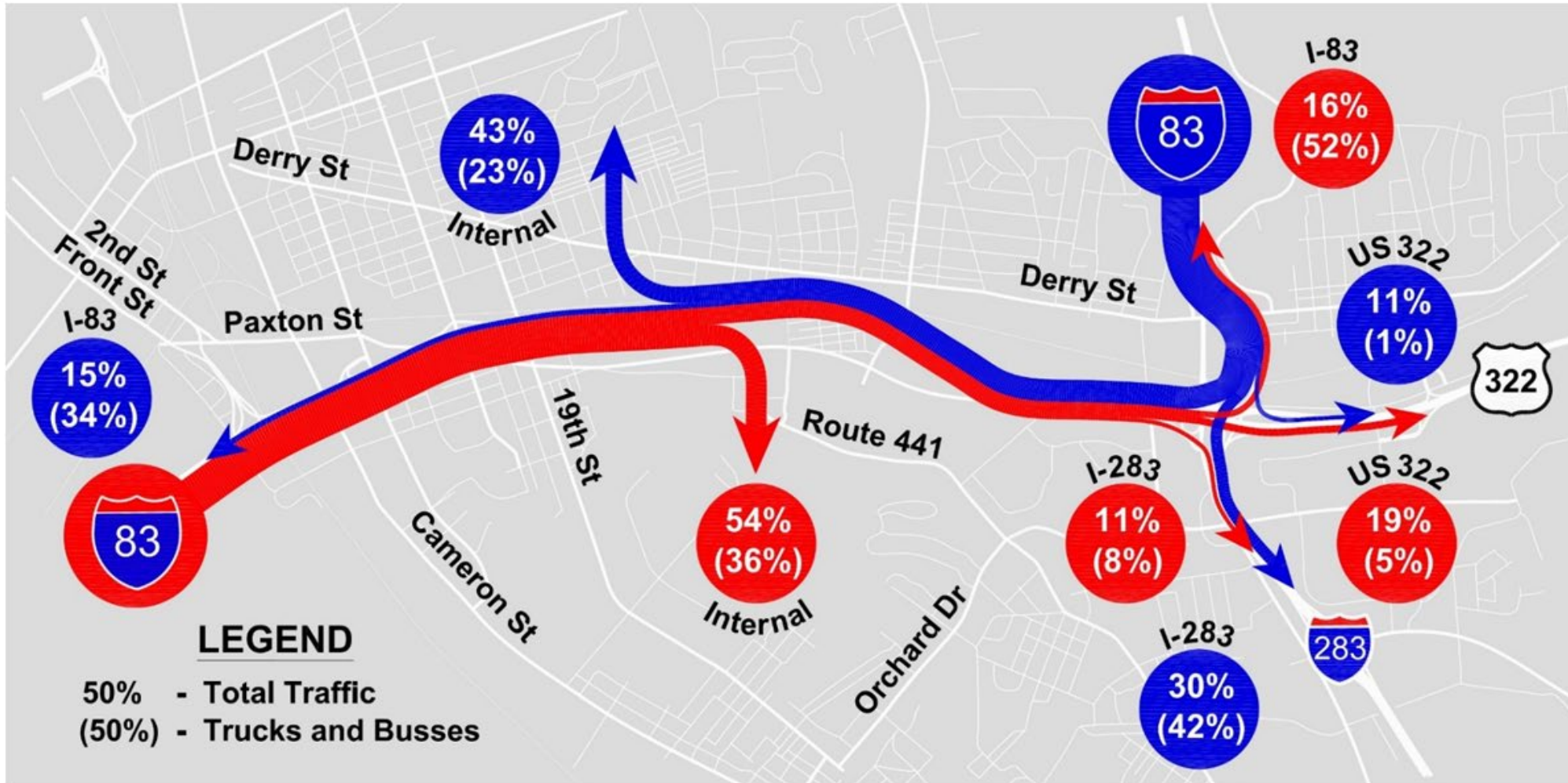
Alternatives

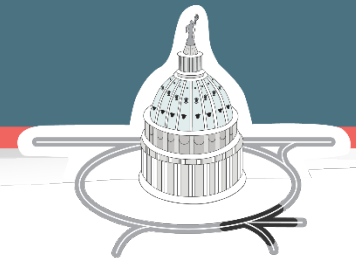


SR 0083 Sec 079 Overview



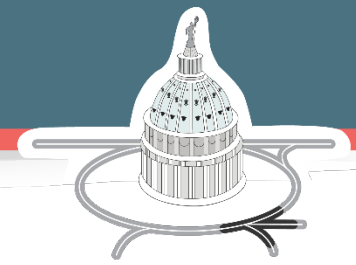
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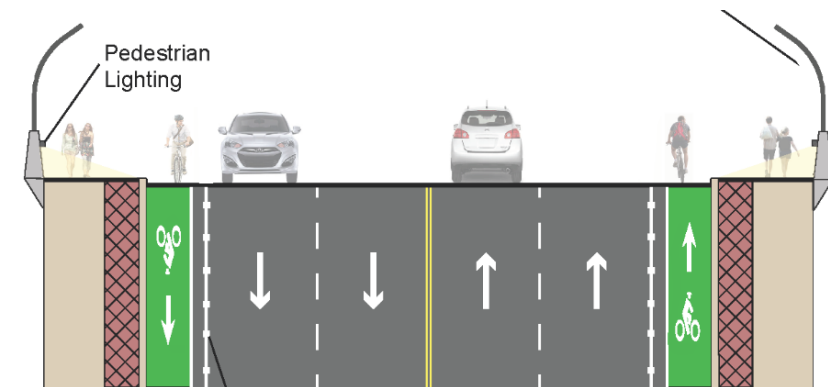
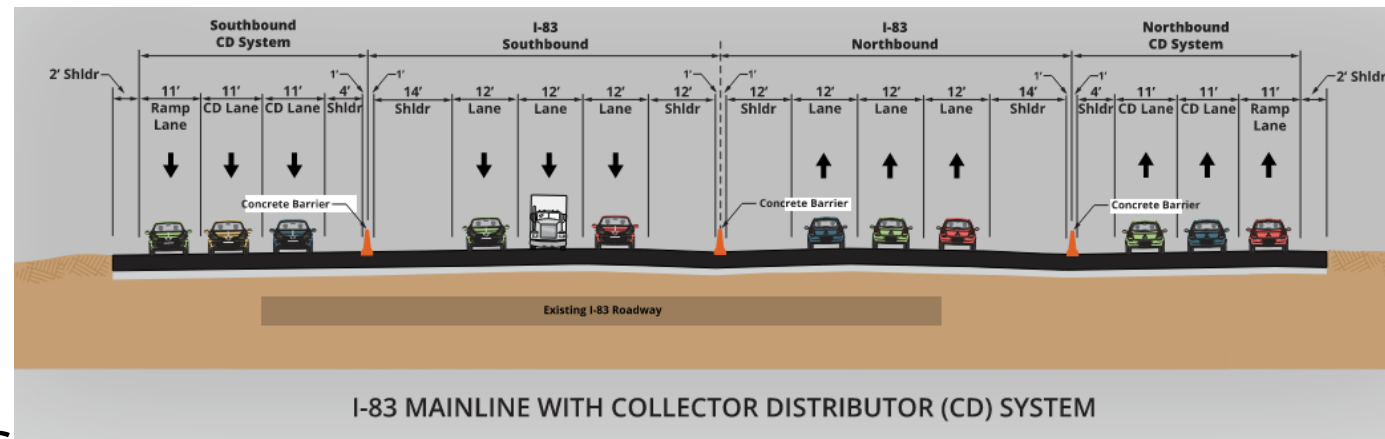
Construction Projects

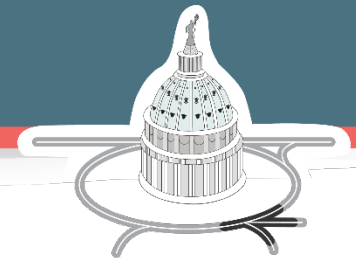




Contract #1 Section 079

- Cameron Street Interchange including stormwater basins
- 19th Street Interchange
- NB widening from 19th Street overpass to 29th Street overpass
- Cameron Street Reconstruction
- 19th Street Reconstruction
- 29th Street Reconstruction

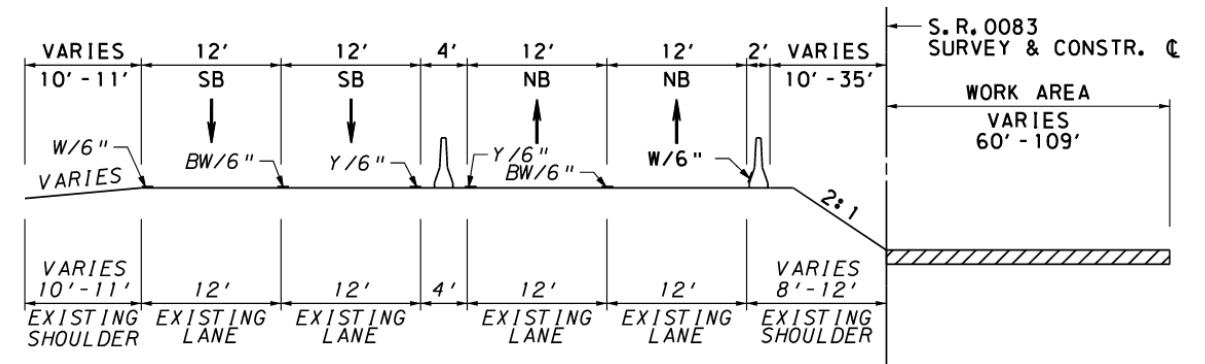
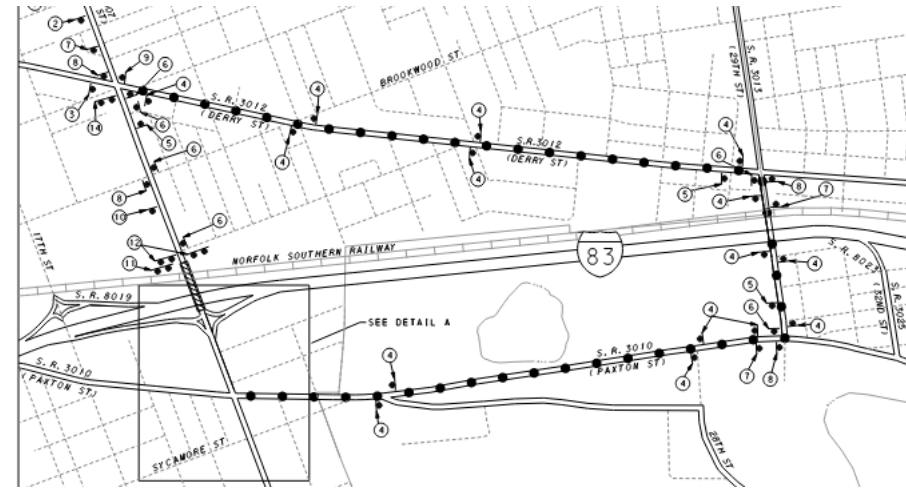


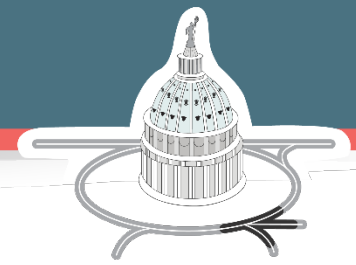


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Traffic Control

- Maintain 2 lanes of traffic in each direction for I-83
- Off-alignment widening
- Detours for bridges over I-83
- Maintain current interchange at 13th Street until Cameron Street Interchange is constructed



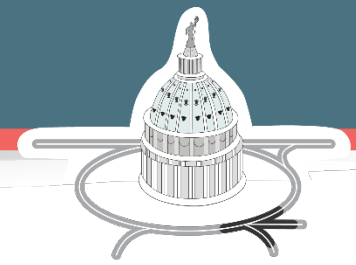


Summary of Bridges

- 29th St over SR 0083 & Norfolk Southern
- 19th St over Norfolk Southern
- 19th St over SR 0083
- SR 0083 over Abandoned Railroad Spur (Bridge Removal)



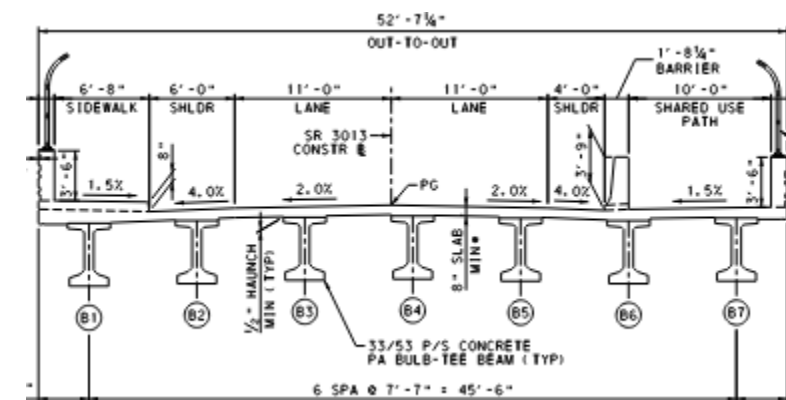
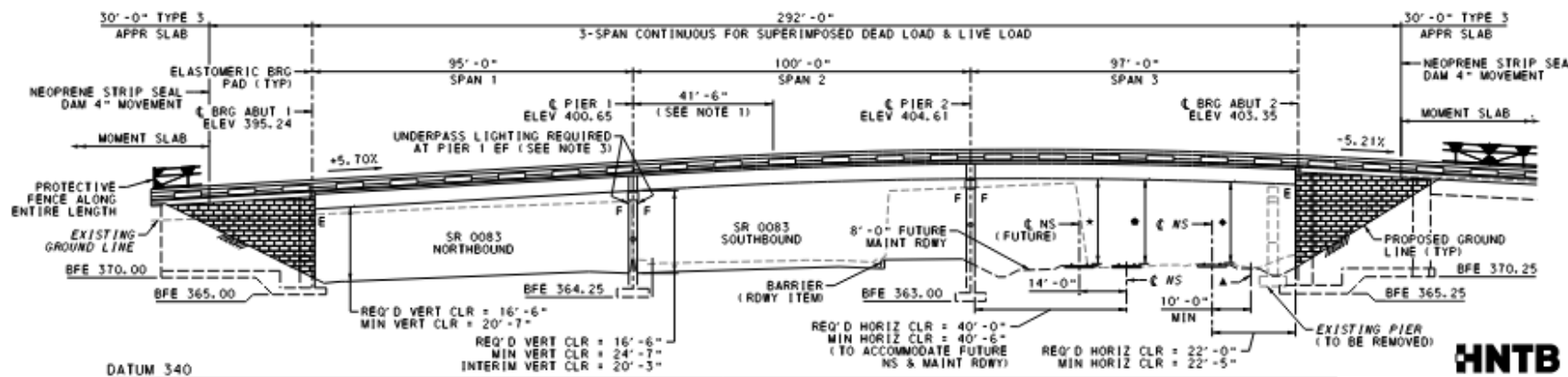
SR 0083 Sec 079 Structures

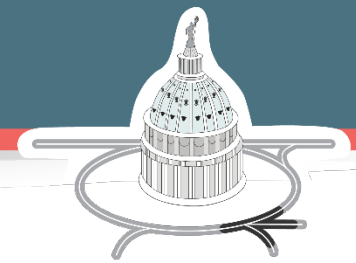


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29th St over SR 0083 & NS

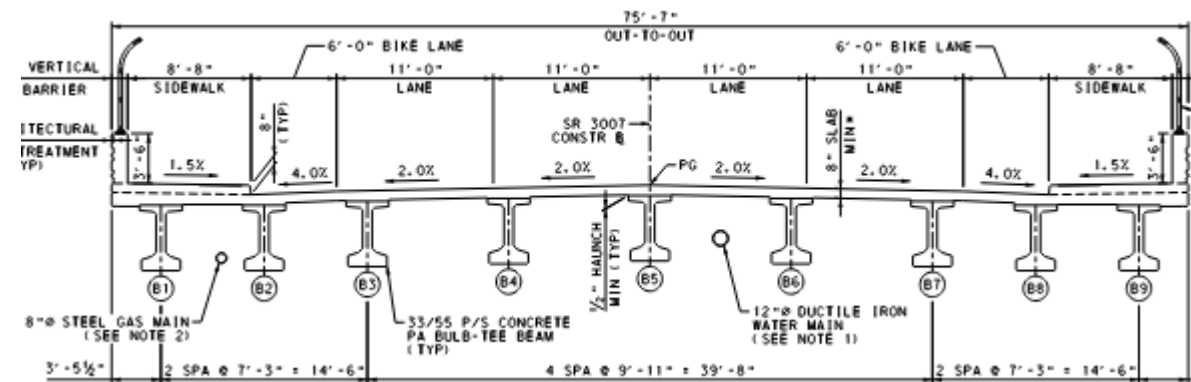
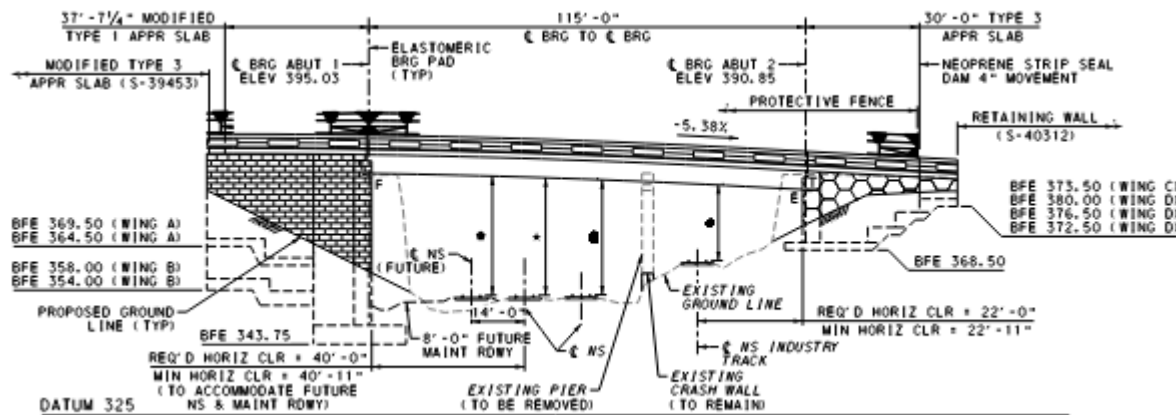
- Coordination with Norfolk Southern
- Existing abutment removal concept details
- Beam placement concept details

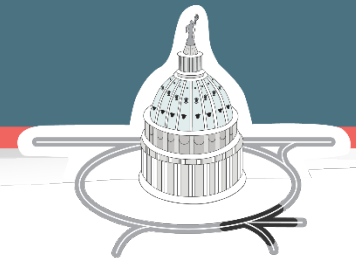




19th St over NS

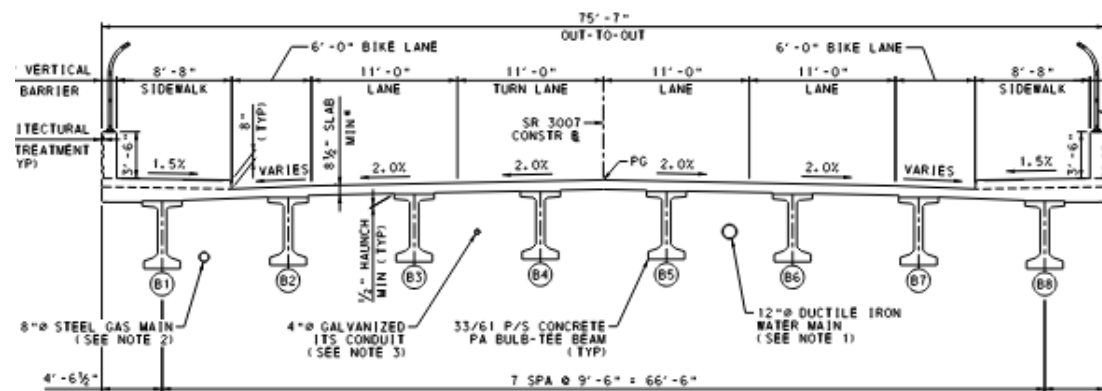
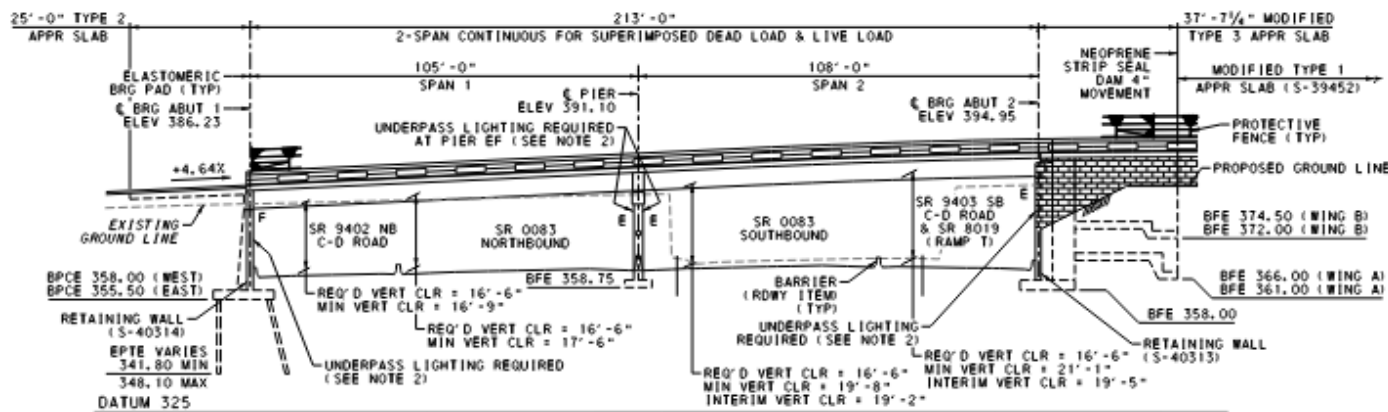
- Coordination with Norfolk Southern
- Existing pier removal concept details
- Beam placement concept details

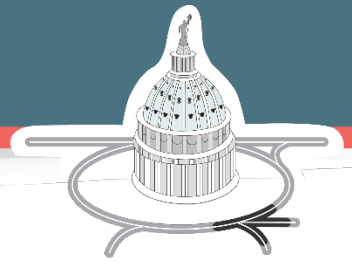




19th St over SR 0083

- Beam placement concept details
- Substructure founded on rock outcropping
- Complex geometry – Abutment 1 at 19th St interchange

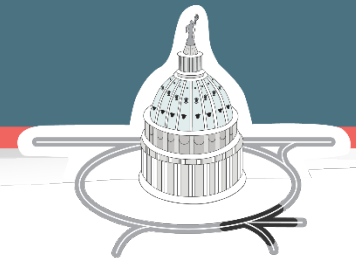




Summary of Retaining Walls, Sound Barriers & Moment Slabs

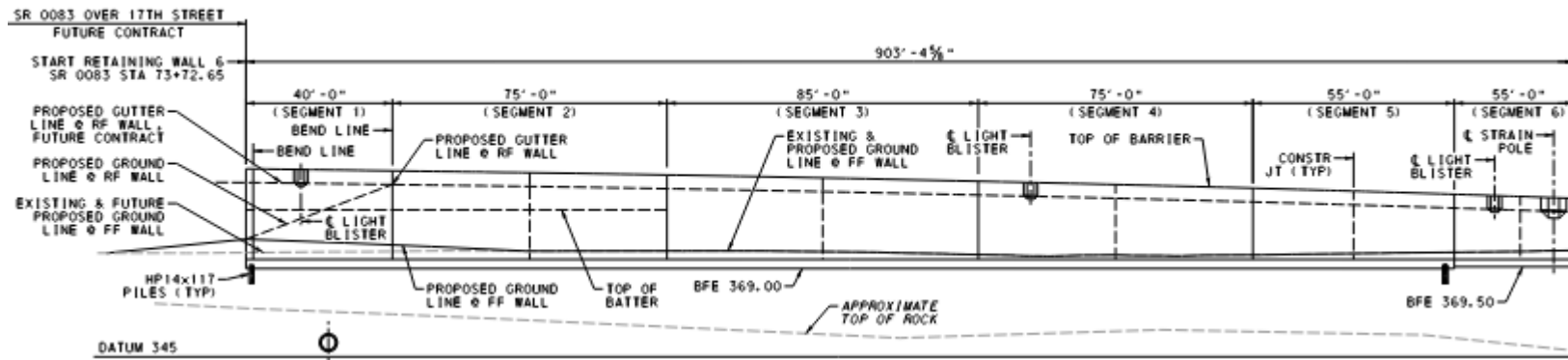
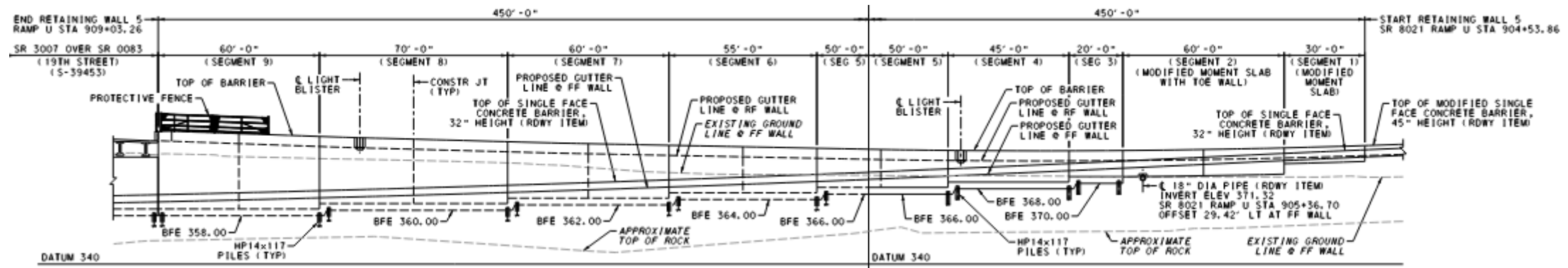
- RW1 – 19th St Northeast
- RW2 – 19th St over SB C-D Road
- RW3 – Ramp V over NB C-D Road
- RW4 – Yates Alley over Ramp V
- RW5 – Ramp U over NB C-D Road
- RW6 – Ramp U over 18th St
- SB1 – East of RW4 along Ramp V & NB C-D Road
- SB2 – West of RW4 along Ramp V
- MS1 & MS2 – Along SR 0083 SB (to maintain grading outside of NS ROW)

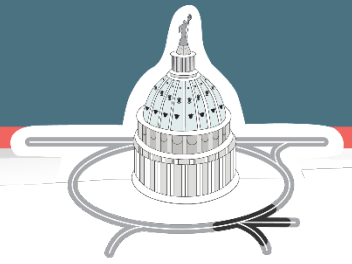
SR 0083 Sec 079 Structures



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RW5 & RW6

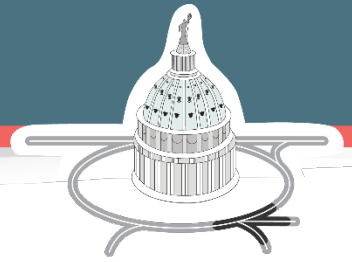




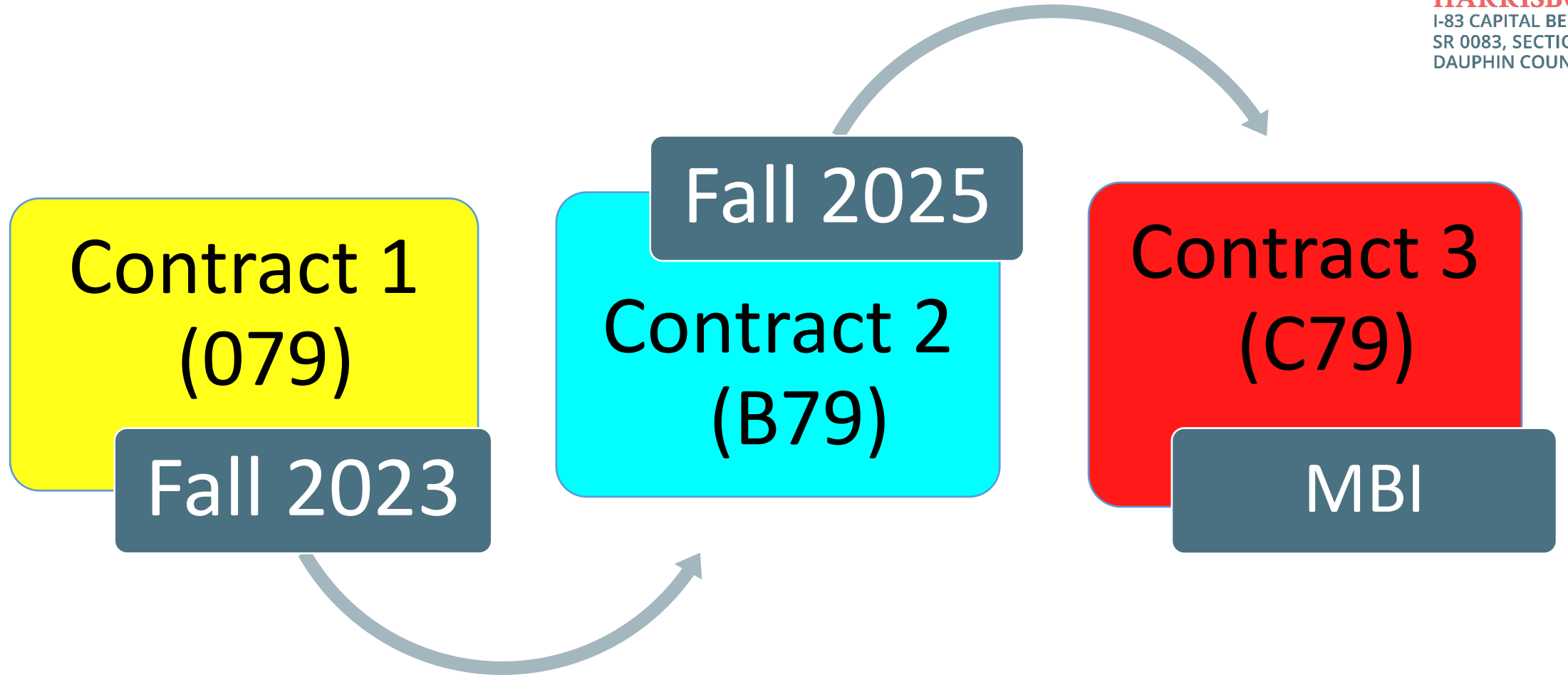
Summary of Structures

- 17th St over Norfolk Southern
- SR 0083 over 17th St
- SR 0083 over Paxton St
- 13th St over SR 0083
- RW7 – SB C-D Road between 17th St & Paxton St
- RW8 – NB C-D Road between 17th St & Paxton St
- MS3 – Continuation of MS2 from Sec 079
- MS4 – Along NB C-D Road between 13th St & Paxton St

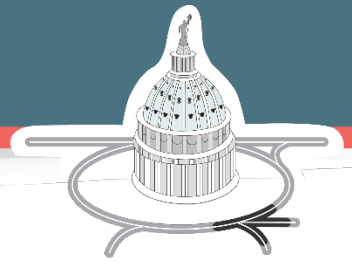
SR 0083 Sec 079 Project Timeline 2022



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SR 0083 Sections 078 & 079



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