

Madawaska-Edmundston International Bridge

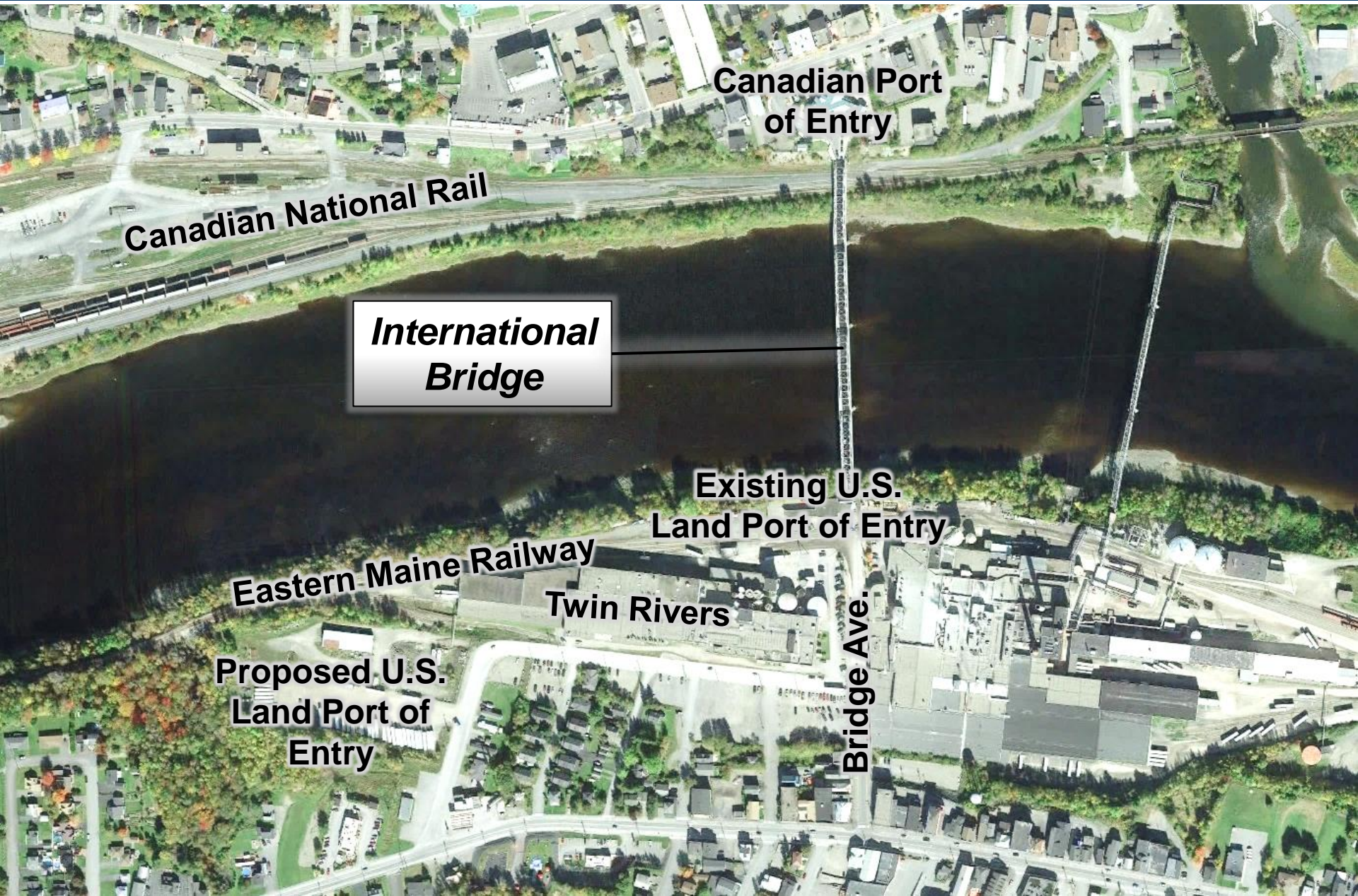
NBDTI C076 – MeDOT 2399 Madawaska-Edmundston

- \$86.5 Million USD Bridge Replacement
- Construction began: Spring of 2021
- Projected open to traffic date: June 2024
- Projected project completion date: June 2025
- Awarded Contractor:
- Reed & Reed of Woolwich, Maine
- Lead Agency: Maine

Madawaska-Edmundston International Bridge



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Canadian Port
of Entry

Canadian National Rail

**International
Bridge**

Existing U.S.
Land Port of Entry

Eastern Maine Railway

Twin Rivers

Proposed U.S.
Land Port of
Entry

Bridge Ave.

Madawaska-Edmundston International Bridge

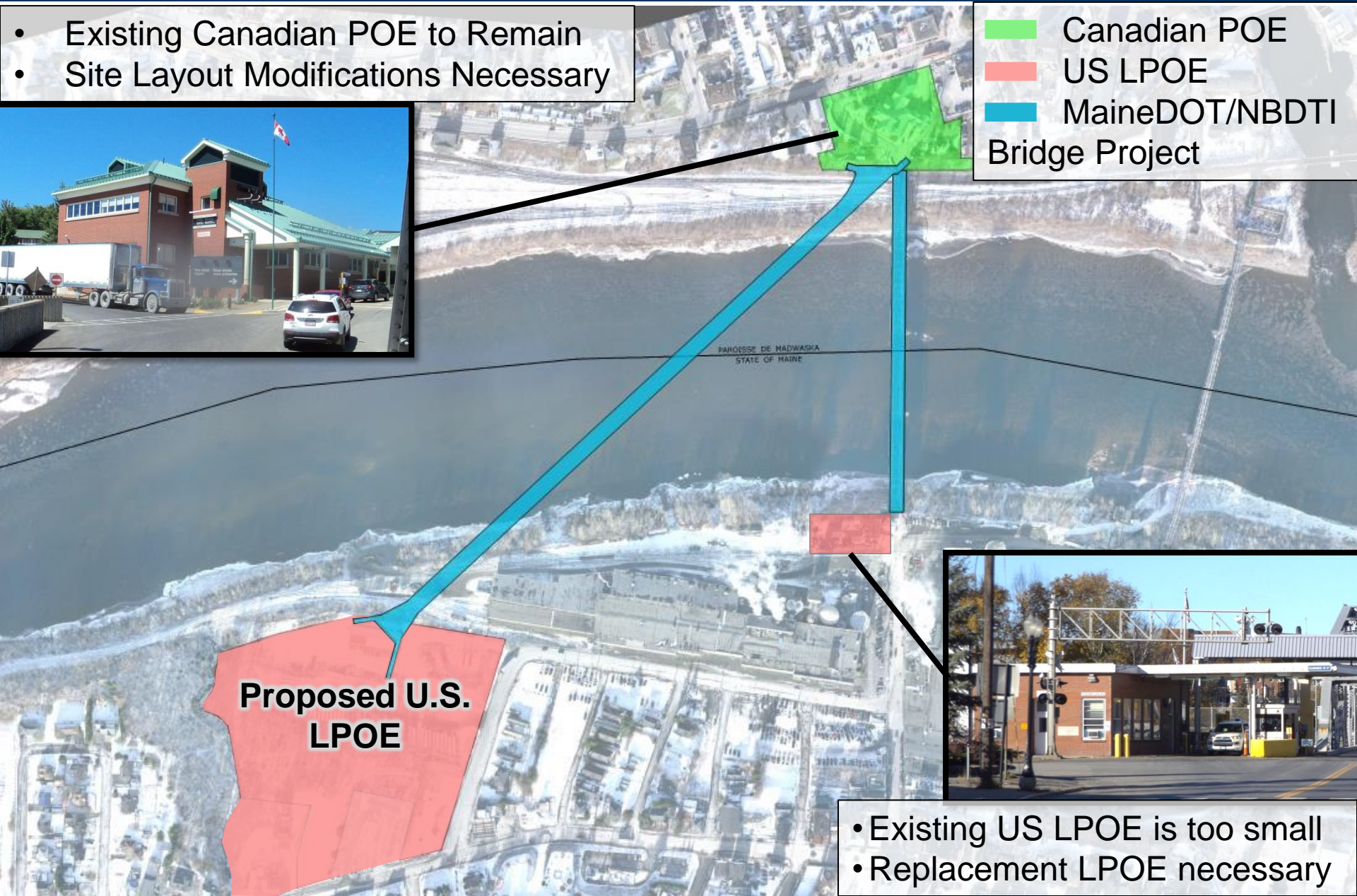


- Feasibility study considered 12 different crossing locations
- 6 crossing locations were shortlisted
- Focus on maintaining a crossing in the downtown business zone that also provided pedestrian access across the border

Madawaska-Edmundston International Bridge

- Existing Canadian POE to Remain
- Site Layout Modifications Necessary

- Canadian POE
- US LPOE
- MaineDOT/NBDTI Bridge Project



Proposed U.S. LPOE

- Existing US LPOE is too small
- Replacement LPOE necessary



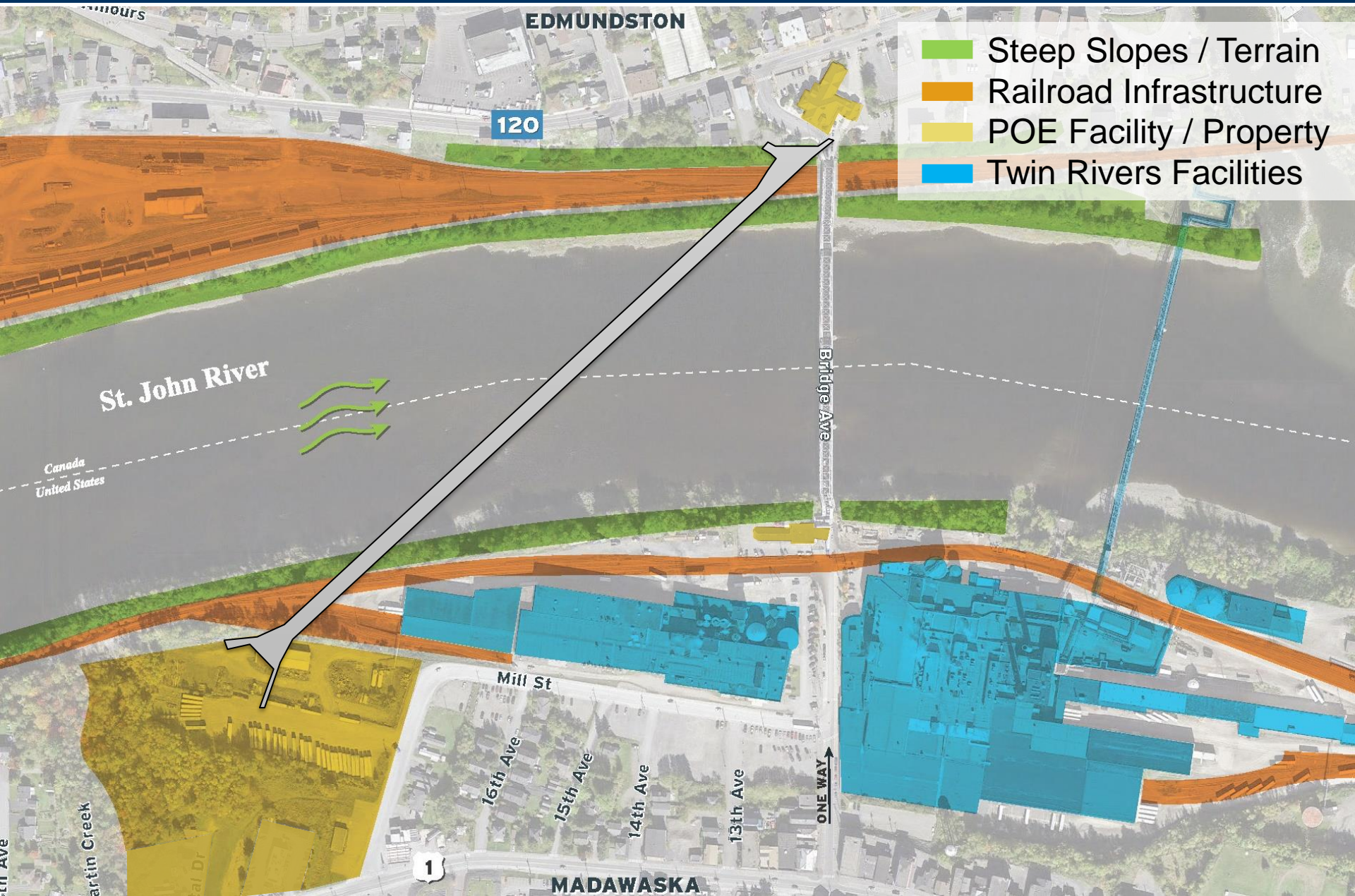
Project Background – Existing Bridge



- Built in 1920
- 4 Span Truss
- 14'-4" Vert. Clearance
- Currently Weight Restricted to 5-Tons
- Traffic maintained on the existing bridge during construction



Project Site Overview

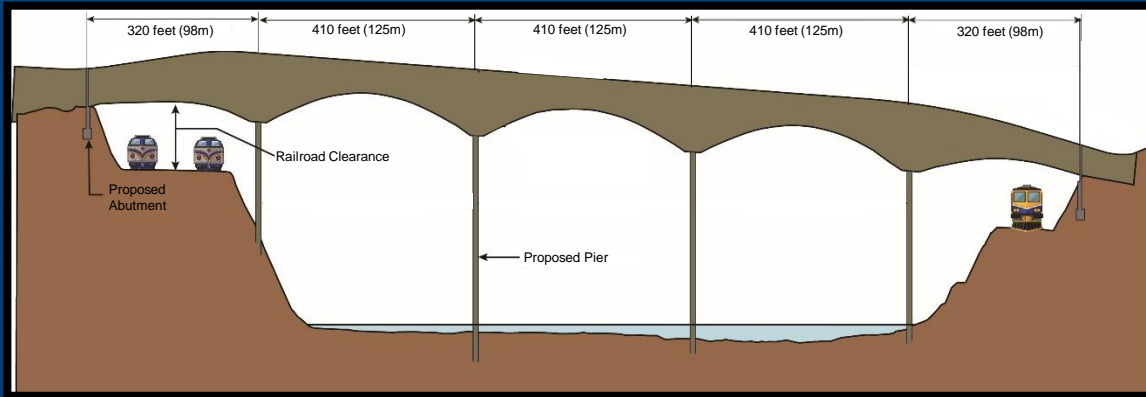


Project Site Overview

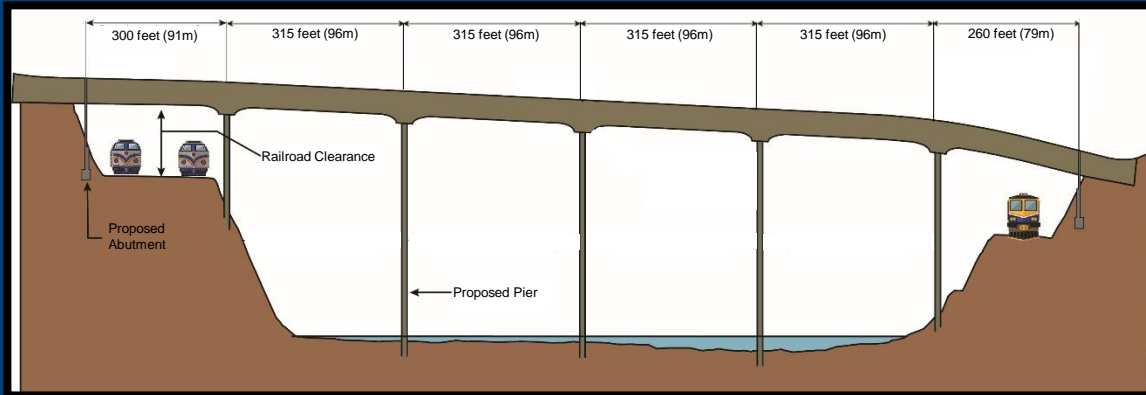
2019 Geotechnical Boring Program



Alternatives Overview— Initial Alternatives

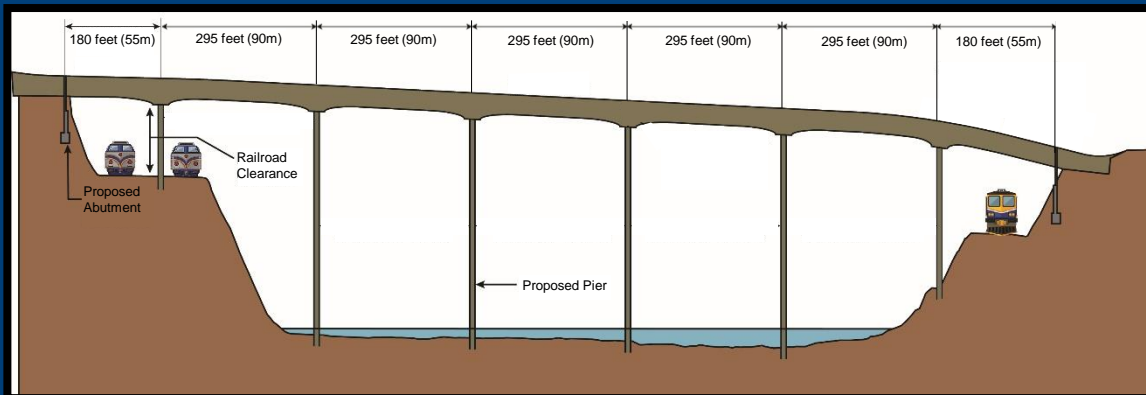


- 5-Span



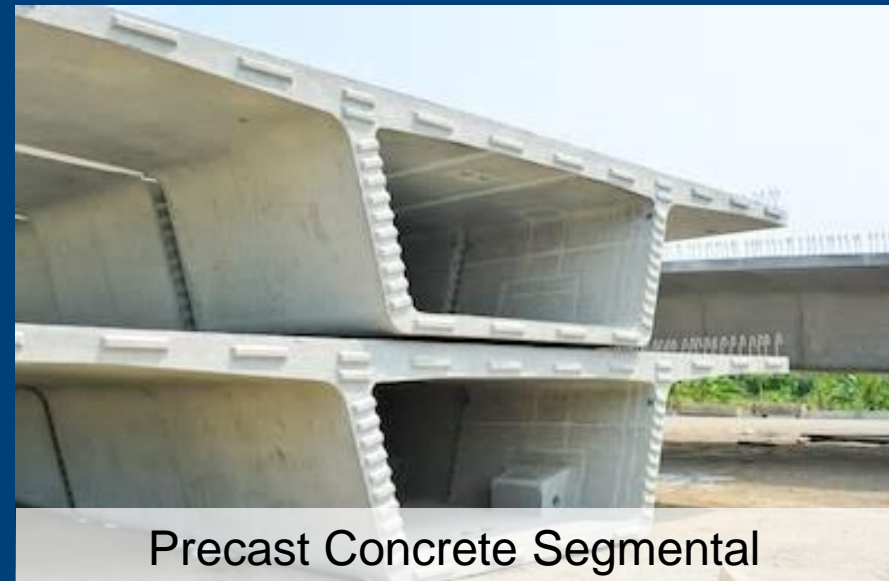
- 6-Span

✓
Advanced



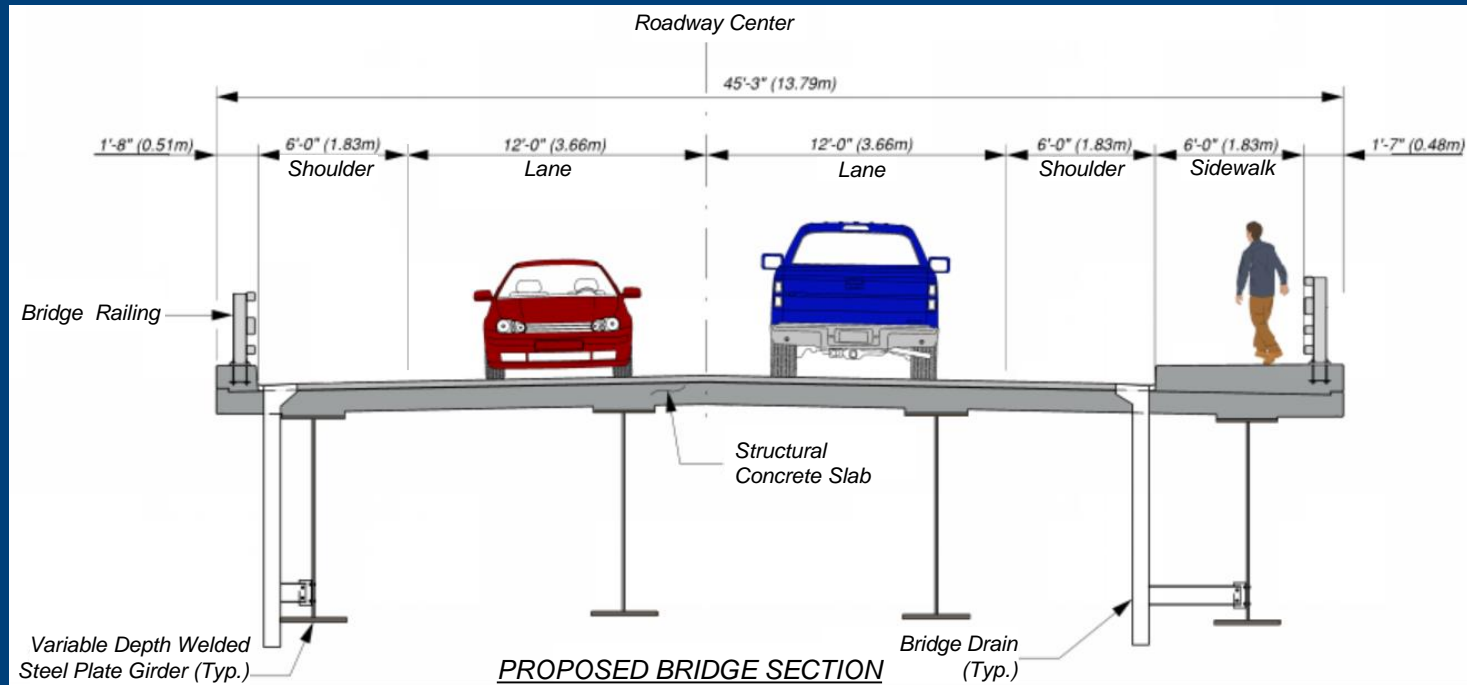
- 7-Span

Alternatives Overview– Initial Alternatives

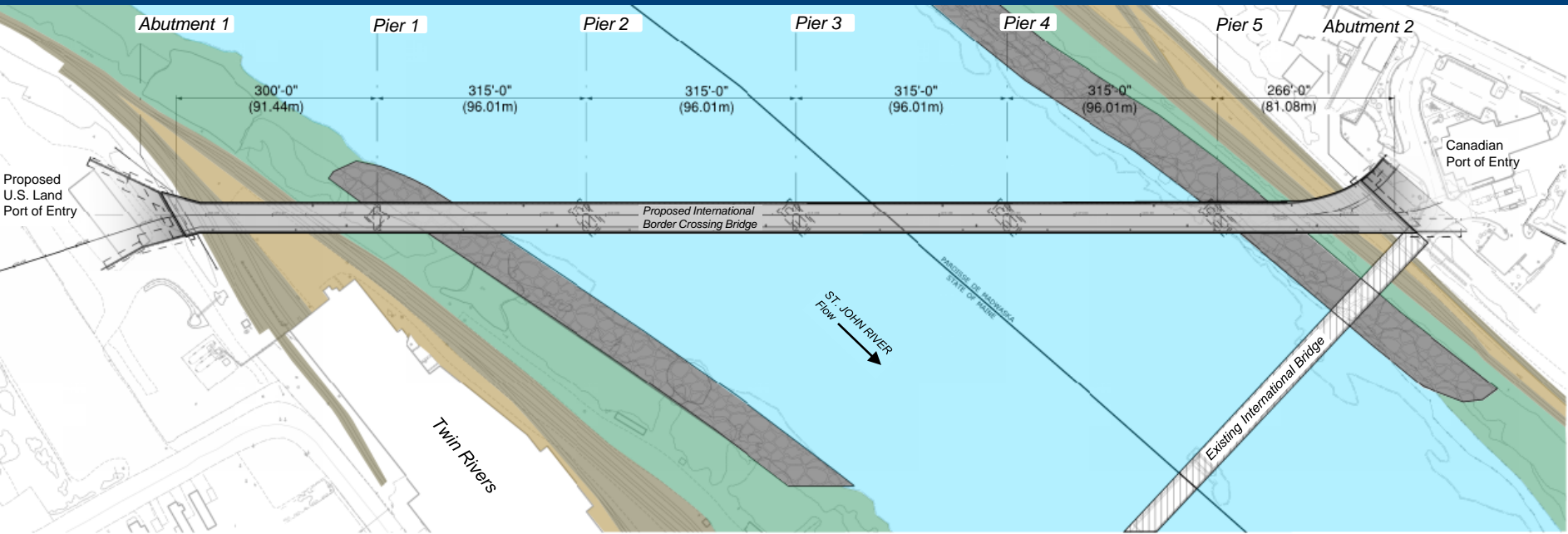


Preferred Alternative

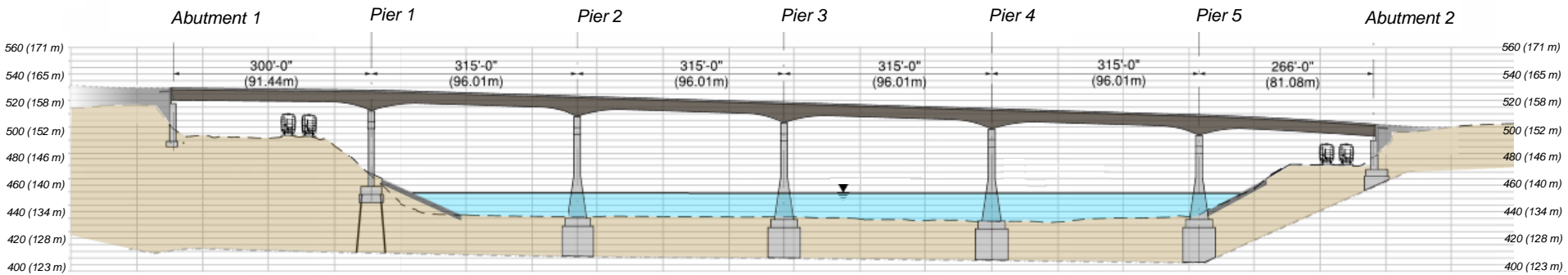
- 6-span Steel Girder Structure
 - Faster Construction (6 Months Quicker)
 - Lower Cost (~\$2 Million USD Less)
 - Lower Risk (Less impacted by railroad schedule, winter construction, and availability of skilled workforce)
 - Traffic Maintained On-Site During Construction



Preferred Alternative



PLAN



PROFILE

International Coordination

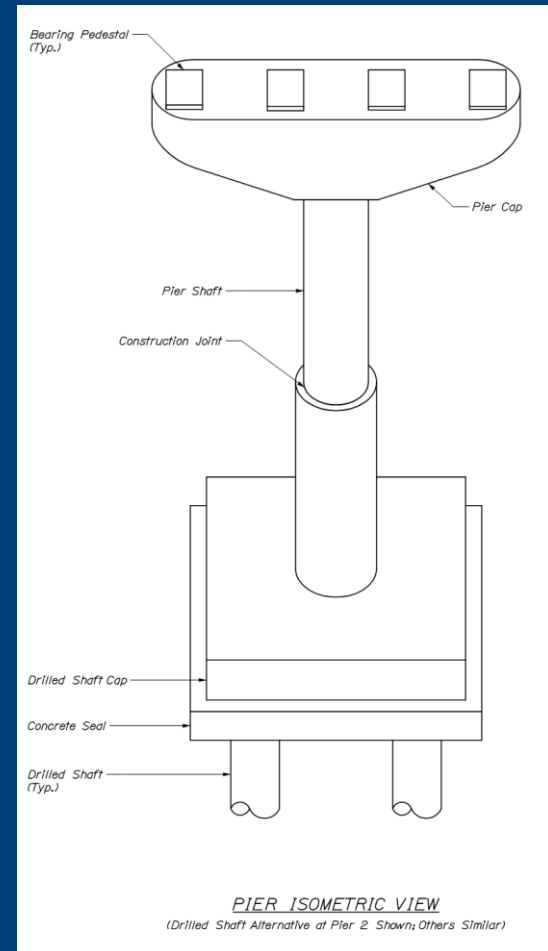
- *U.S. Stakeholders:*
 - *General Services Administration (GSA) (construct new LPOE)*
 - *Customs & Border Protection (CBP)*
 - *Federal Highway (\$36 million INFRA Grant)*
 - *U.S. Coast Guard (lead permitting agency)*
 - *Town of Madawaska (utility relocation & aesthetics)*
 - *Maine Northern Railroad (access agreements & relocations)*
 - *Twin Rivers Paper Company (access agreements & relocations)*
- *New Brunswick Stakeholders:*
 - *New Brunswick Department of Transportation & Infrastructure*
 - *Canada Border Services Agency (access agreements & upgrades)*
 - *City of Edmundston (utility relocation & aesthetics)*
 - *Canadian National Railway (access agreements and relocations)*
 - *First Nations (environmental coordination & oversight)*

International Coordination

- *Environmental Permitting*
 - *Coast Guard Bridge Permit*
 - *International Joint Commission*
 - *Sulfide-Bearing Rock*
 - *Any rock with sulfur content greater than 0.3% by weight and with a neutralization potential ratio less than 3.0%*
 - *Cannot be used to armor riverbanks temporarily or permanently*
 - *Contractor will sample quarry source using a two-step process:*
 - *Screen for total sulfur content.*
 - *Those with greater than 3% are subject to Sobec acid-base accounting procedure*
 - *No less than 3 samples per 100 cubic yards.*
 - *In-Water Trestle Removal*
 - *Removal of components above elevation 450.0' seasonally*
 - *Flooding/Ice damming concerns*
 - *Tree Clearing & Nesting Migratory Birds*
 - *First Nations Inspections*
- *Border Crossing during a pandemic*

Contractor In Design Process

- *Engaged contractors during final design*
 - *Requested letters of interest from contractors to participate*
 - *Only contractors who participate in the CID process can bid as a prime contractor*
 - *Cianbro, Reed & Reed, and Caldwell & Ross*
- *Purpose is to identify, discuss, and try to mitigate risk items that will impact cost and schedule*
 - *In-water piers*
 - *Trestle construction*
 - *Deck placement sequencing*
 - *Site access on GSA property*
- *Held Group and 1 on 1 Meetings*
 - *Reviewed 60%, 90%, and 98% plan sets*



Construction



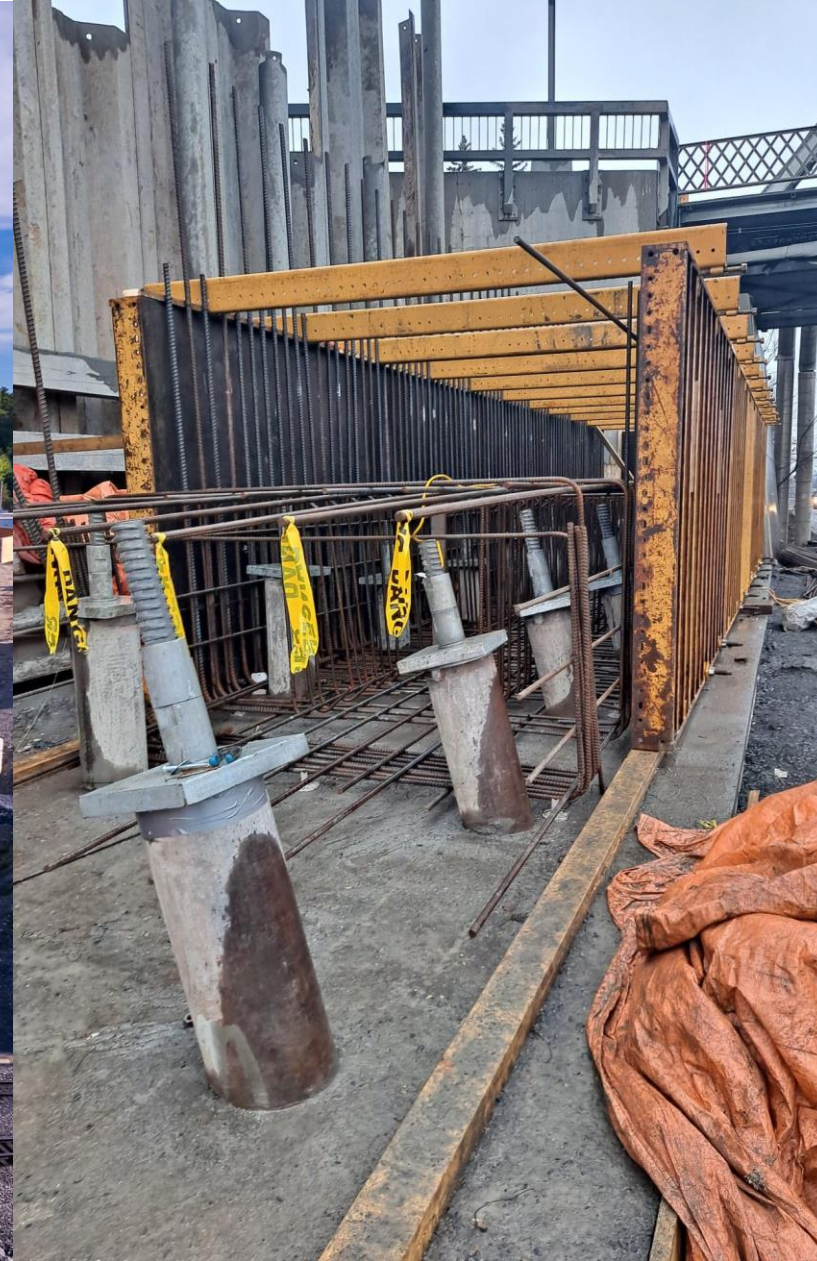
Construction



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