LOCAL CONCERNS MEETING

DEPOT STREET BRIDGE

JAMAICA BO 1442(42)

TH 19, BRIDGE NO. 32 OVER WEST RIVER

DECEMBER 14, 2020

PRESENTATION OUTLINE

- Purpose and Need
- Location Map
- Existing Bridge Information
- Inspection Findings
- Rehabilitation & Traffic Control Alternatives
- Cultural & Natural Resources
- Abutters & Right-of-Way
- Your Input is Needed
- Next Steps
- Anticipated Schedule
- Questions

PURPOSE AND NEED

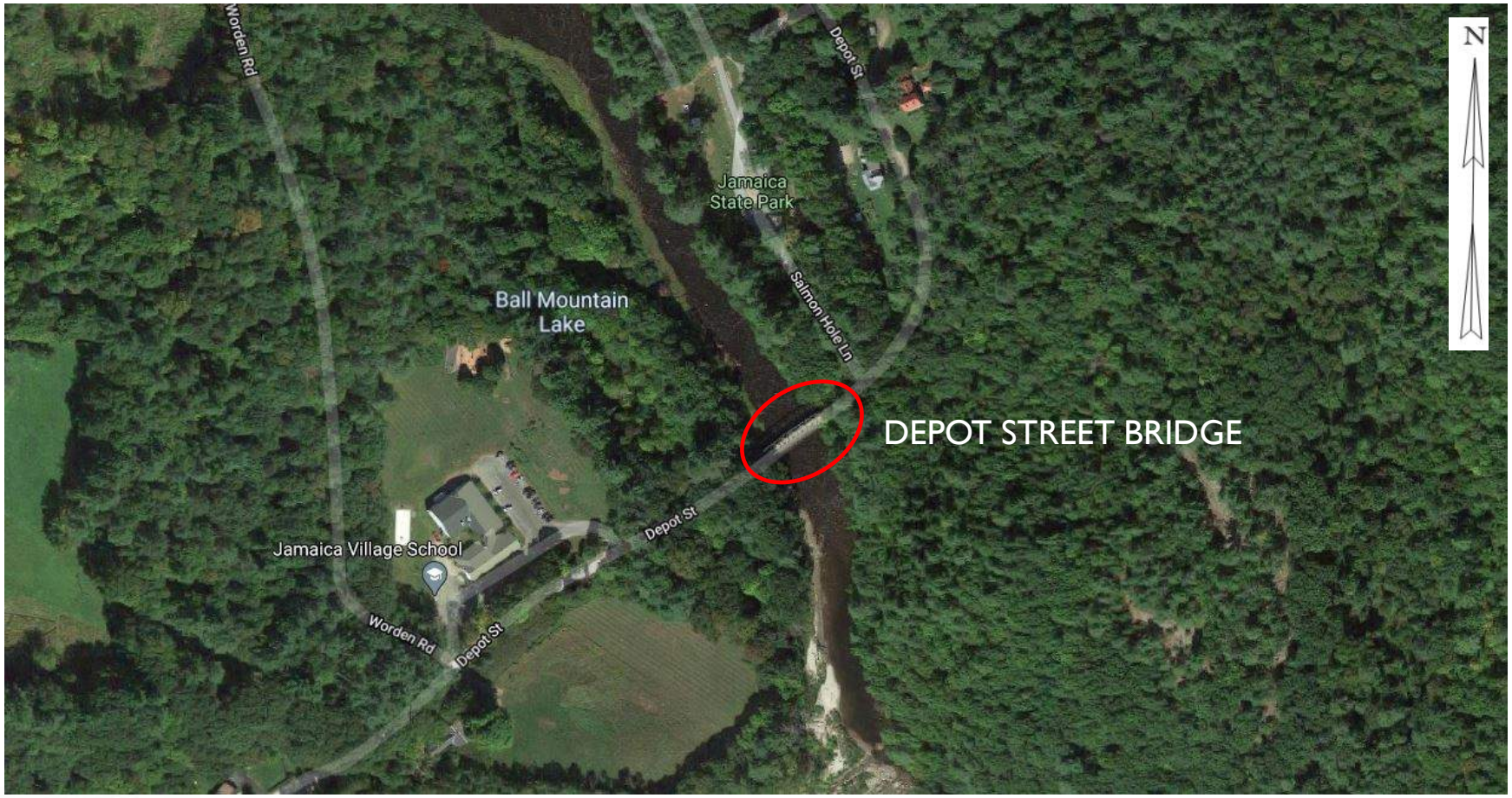
Purpose

- Provide a safe crossing over the West River at the Depot Street Bridge

Need

- The steel through-truss requires rehabilitation or replacement to continue to meet the needs of the community

LOCATION MAP



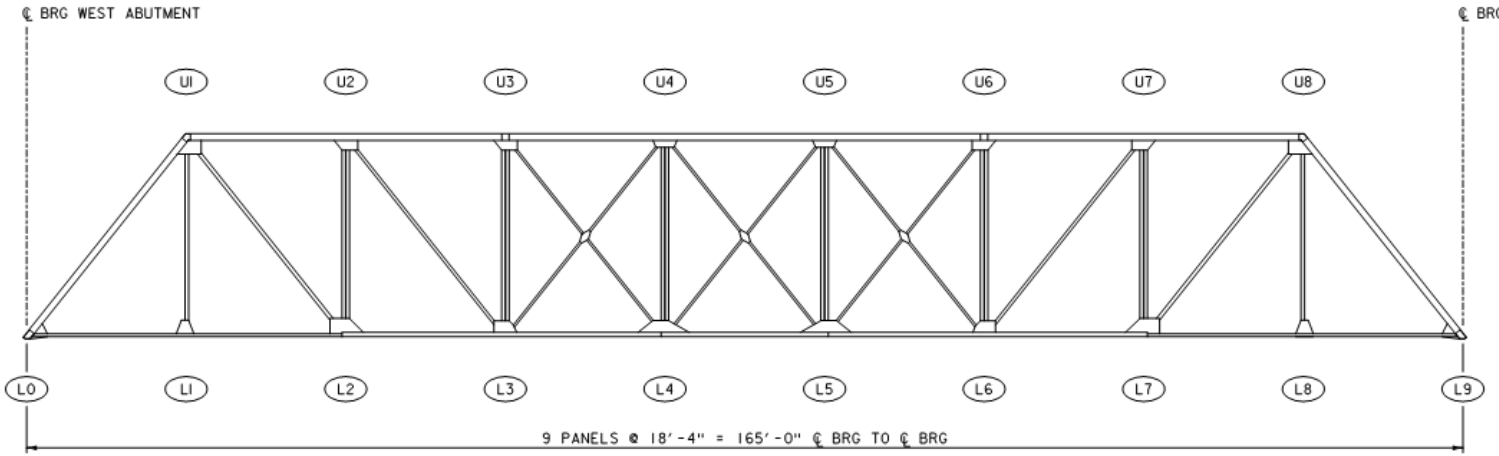
EXISTING BRIDGE INFORMATION

- Bridge no. 32 constructed in 1926
- Fabricated by the Berlin Construction Company
- Kittredge Bridge Company as the contractor
- Pratt Through-Trusses:
  - 165' Total Span Length
  - 15'-4" On Center, 13'-6" Between Curbs
  - 14'-7" Vertical Clearance
  - Posted Weight: 8 Tons

EXISTING BRIDGE INFORMATION

- Precursor to post-1927 standardized Pratt Trusses
- Utilizes built up members rather than rolled I-beams
- Meets registration requirements for inclusion in the National Register of Historic Places (NRHP)
- 1998 VTrans Historic Bridge Programmatic Agreement
  - Listed as Category A for limited highway use
  - Change of use would require additional review and agreements
- Substructures: dry-laid stone masonry

ELEVATION VIEW



PLAN VIEW

Graphic being finalized

INSPECTION FINDINGS

- National Bridge Inspection Standard Condition Ratings
  - 9 = Excellent
  - 0 = Failed Condition - Closed
- Overall bridge condition is rated 6 or satisfactory.
  - Deck condition is rated 6 or satisfactory.
  - Superstructure condition is rated 6 or satisfactory.
  - Substructure condition is rated 6 or satisfactory.
  - Channel condition is rated 8 or very good.

APPROACHES

Limited sightlines north approach

Satisfactory sightlines south approach

DECK

Transverse deck planks are in fair condition

FLOOR SYSTEM

Stringers and floorbeams have some section loss

Debris collecting on floor system members from gaps in deck

TRUSS MEMBERS

Minor section loss observed on lower portions of trusses

SUBSTRUCTURE

Some smaller stones have fallen outward from abutment faces

REHABILITATION ALTERNATIVES ANALYSIS

- Bridge rehabilitation is feasible based on:
  - Current condition of bridge.
  - Deterioration type and level of section losses observed.
  - Expected remaining service life.
- Rehabilitation will extend service life.

REHABILITATION ALTERNATIVES ANALYSIS

- Bridge rehabilitation alternatives analysis will consider and evaluate:
  - H-8 (8-Ton) Design Vehicle
  - H-12 (12-Ton) Design Vehicle
  - H-15 (15-Ton) Design Vehicle
  - H-20 (20-Ton) Design Vehicle

LOAD RATING

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  - H-8 (8-Ton) Design Vehicle
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REHABILITATION ALTERNATIVES ANALYSIS

- Rehabilitation alternatives evaluation will include:
  - Initial construction cost.
  - Traffic impact.
  - Public safety.
  - Environmental impacts.
  - Property impacts.
  - Extending remaining service life.
  - Public input.

ADAPTIVE REUSE

- Adaptive reuse would include:
  - A new bridge on a new alignment upstream of the existing bridge
  - The existing bridge would remain in place for pedestrian use.
- This option would require extensive historic review and property acquisition

TRAFFIC CONTROL ALTERNATIVES

- Phased construction.
  - One lane of alternating two-way traffic (Not Feasible)
- Temporary bridge
  - Archaeological review will be required
- Bridge closure with off-site detour (Not Feasible)

CULTURAL RESOURCES

- Project must follow Section 106 of the National Historic Preservation Act
  - Section 106 requires consideration of cultural resources, including historic buildings, structures & archaeological deposits
- Section 4(f) of the U.S. Department of Transportation Act of 1966 includes evaluation of the use of park lands during Transportation project development.
- Coordinate with State Historic Preservation Office (SHPO) and Historic Metal Truss Bridge Preservation Plan

NATURAL RESOURCES
ABUTTERS & RIGHT-OF-WAY

- Natural Resources
  - Have been identified in the project area
- Abutters & Right-of-Way
  - A temporary bridge or new bridge would be outside the existing right of way.

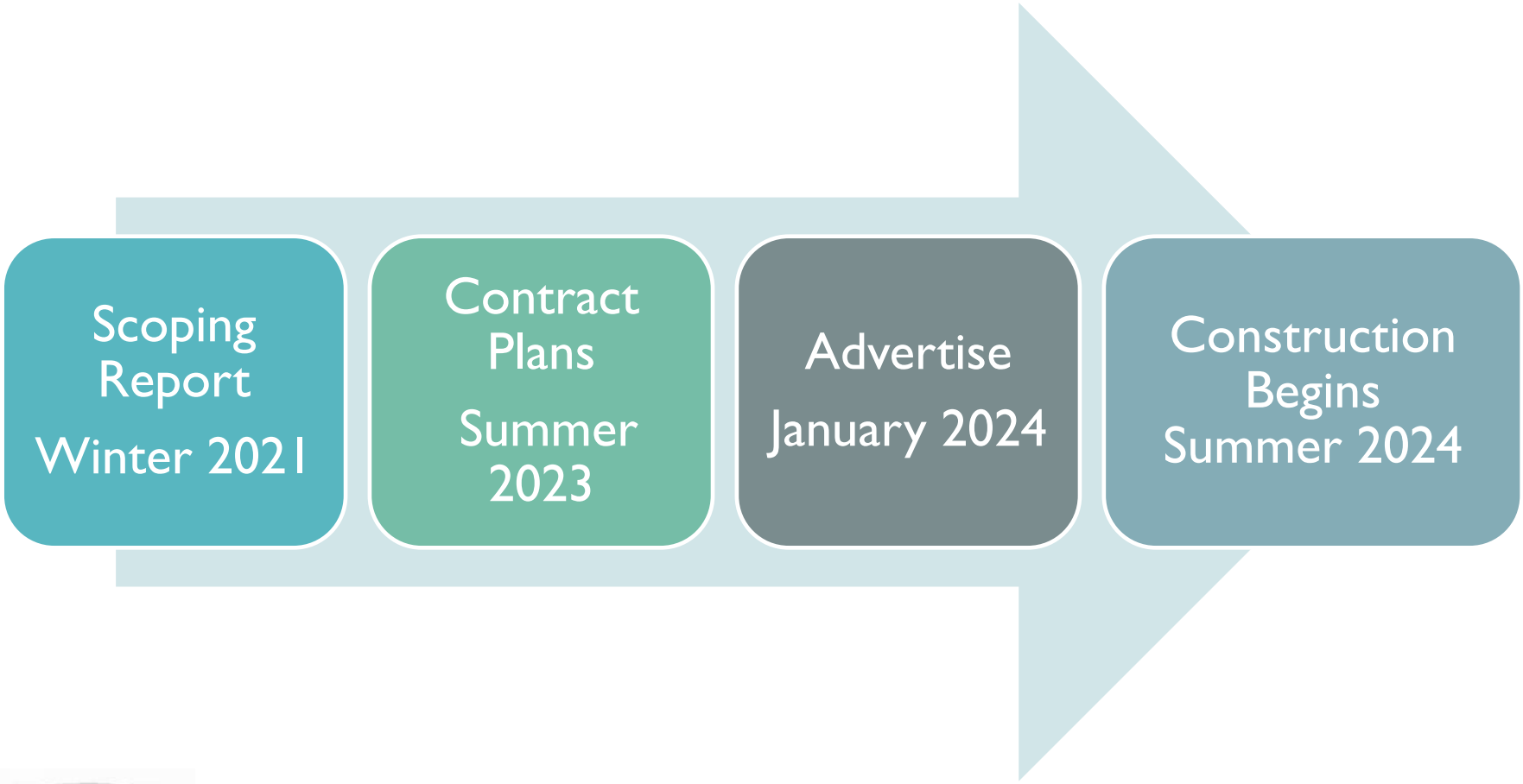
YOUR INPUT IS NEEDED

- Abutter concerns
- Emergency response
- Bridge usage
- Local events and impacts
- Bridge safety concerns
- Other concerns

NEXT STEPS

- Evaluate rehabilitation and adaptive reuse alternatives
- Hold Public Information Meeting to present recommended rehabilitation alternative
- Complete National Environmental Policy Act (NEPA) Process for environmental permitting
- Prepare Scoping Report
- Develop contract plan & documents

ANTICIPATED SCHEDULE



QUESTIONS