



Drakes Island Road Bridge Replacement Project July 27, 2022



Project Team & Partners

Town of Wells

CMA Engineers

GZA GeoEnvironmental

Wells National Estuarine Research Reserve

Rachel Carson National Wildlife Refuge

Drakes Island Community

Morris Communications



How to Comment or Ask Questions Tonight

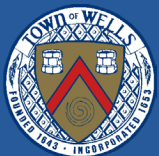
- In person, raise your hand
- At home, click on the hand symbol at the bottom of your screen
- I will call on you to speak
- Please tell us your name and where you live
- Why a hybrid meeting?
- We are recording the meeting and will follow up with a meeting report on the Town website: search for Drakes Island Road Bridge Replacement



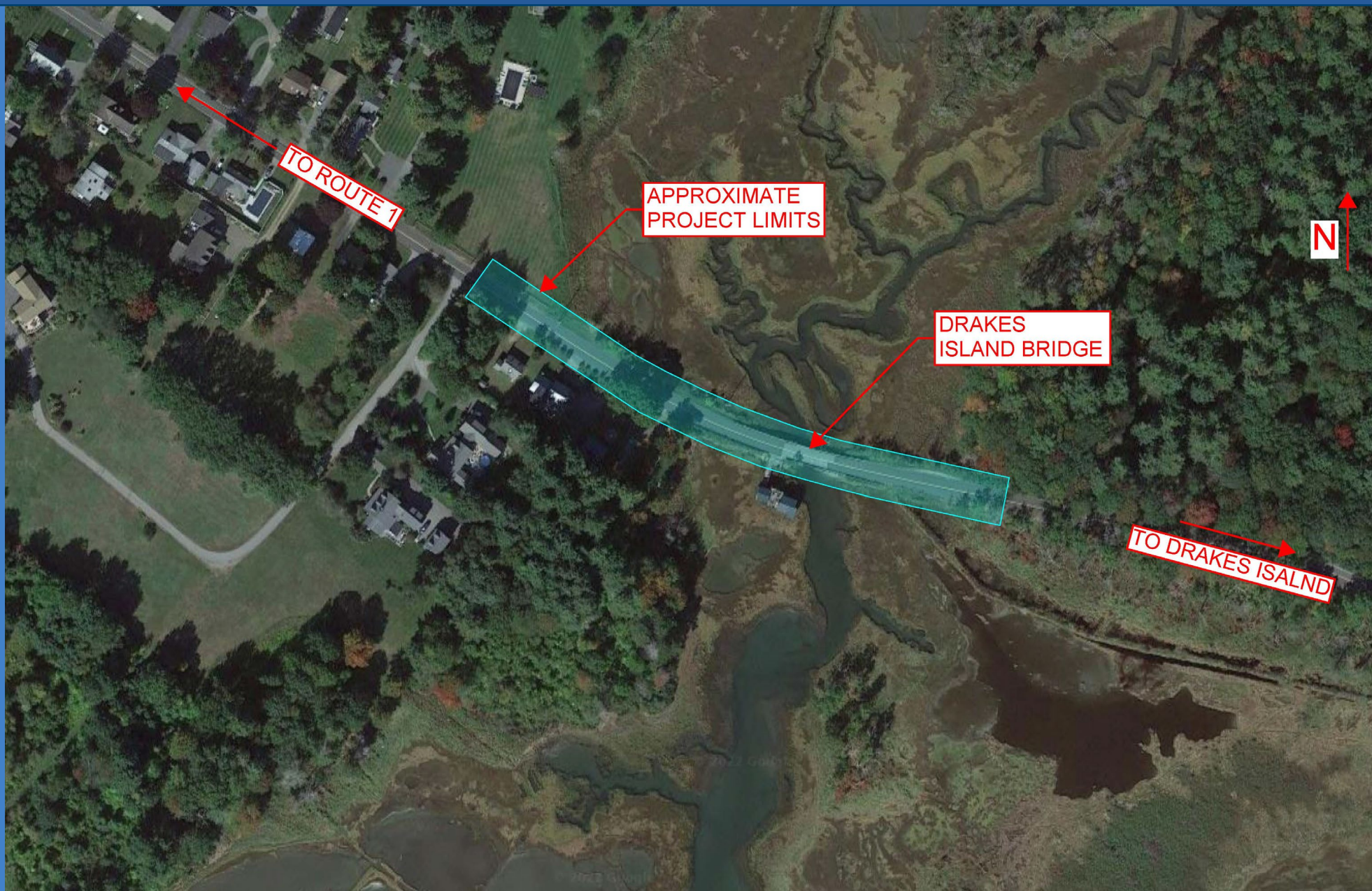
Introduction

- The Town's goal is to build a long-term, safe, high-quality bridge, preserve and enhance the salt marsh habitat, and establish strong community participation and support.
- The Town of Wells has hired an engineering firm to help the community determine what the replacement for this bridge could look like.





Project Area





Public Outreach

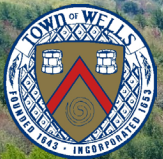
- First of two informational meetings
- The primary purpose of this meeting is to hear your input and answer questions
- A second informational meeting will present project alternatives for public feedback before progressing to the design phase
- Project page on Town of Wells website

<https://www.wellstown.org/1024/Drakes-Island-Road-Bridge-Replacement-Pr>



Project Schedule & Timing

- Project Initiation April 2022
- Engineering Study July 2022
- First Public Meeting July 2022
- Second Public Meeting Early 2023
- Engineering Study Complete March 2023
- Preliminary Design 2023
- Final Design 2024
- Project Construction No Earlier than Fall 2024



DRAKES ISLAND ROAD
Bridge Replacement Project



Linden Street Bridge, Exeter, NH



River Road Culvert, Ogunquit, ME



Norris Brook Culvert, Exeter, NH



Tuck's Point Sewall, Manchester, MA



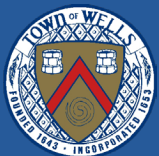


Project Complexity

Deep Foundations
Rigorous Environmental Permitting
Tidal Hydraulics & Storm Surge
High Quality, Sensitive Environmental Setting



Construction Access
Utilities
Adjacent Structures
Resident Access During Construction

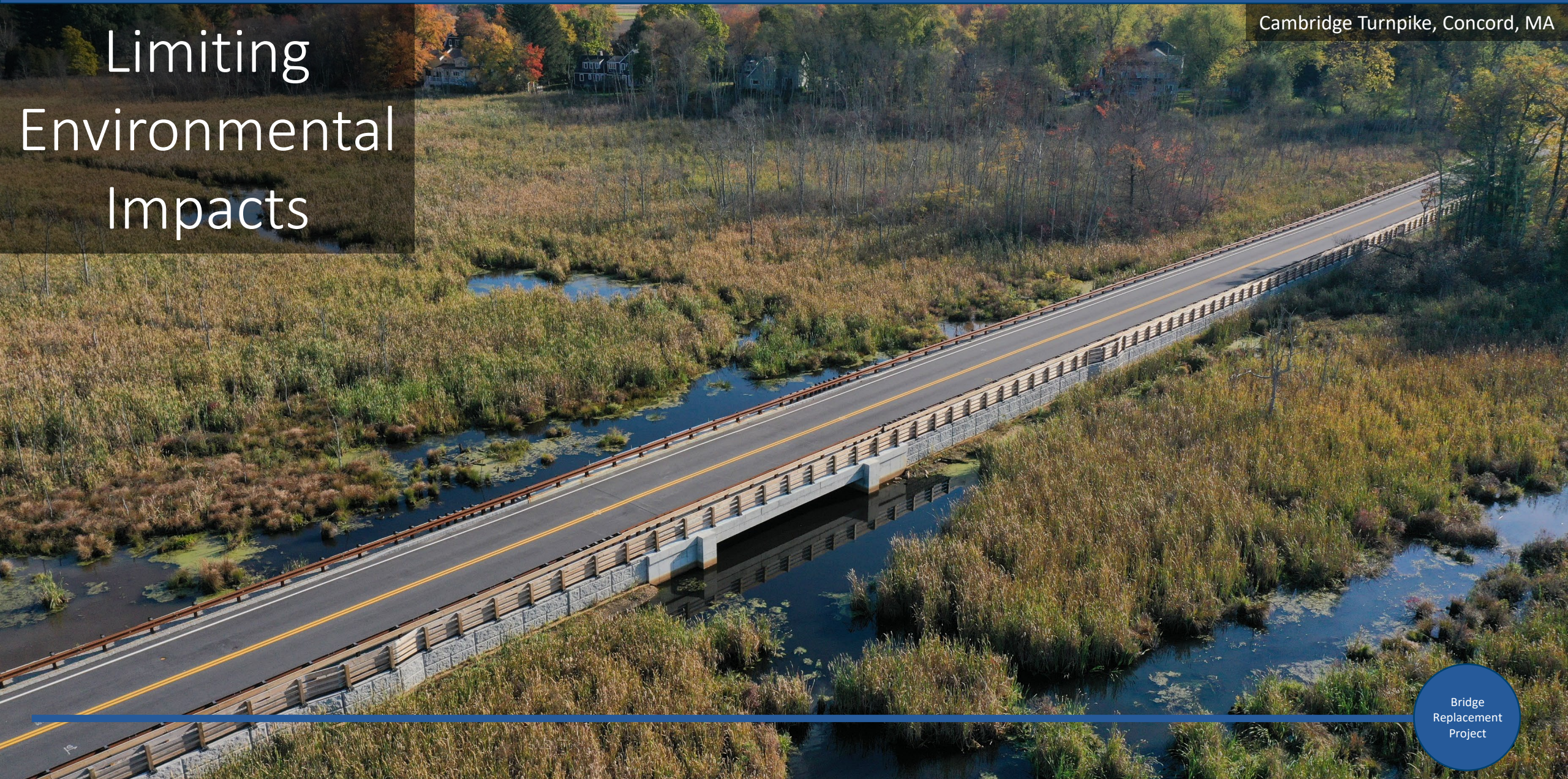


DRAKES ISLAND ROAD
Bridge Replacement Project



Cambridge Turnpike, Concord, MA

Limiting Environmental Impacts



Bridge
Replacement
Project



DRAKES ISLAND ROAD
Bridge Replacement Project

Phased Bridge Construction

CMA
ENGINEERS



Bridge
Replacement
Project



DRAKES ISLAND ROAD
Bridge Replacement Project



Current Mean Higher High Water (MHHW)



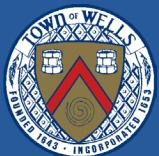
Current MHHW Plus 4 Feet of Sea Level Rise



Existing Bridge Condition

Substructure: 4 – Poor Condition
Superstructure: 7 – Good Condition
Deck: 7 – Good Condition





Engineering Process

- Engineering Study
 - Collect Site Information
 - Informational Meeting
 - Preliminary Permitting
 - Site Hydraulics
 - Identify and Evaluate Alternatives
 - Informational Meeting
 - Engineering Study Report
- Preliminary Design
- Final Design
- Construction



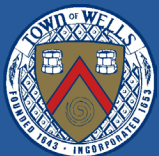
Information Gathering

Known Information

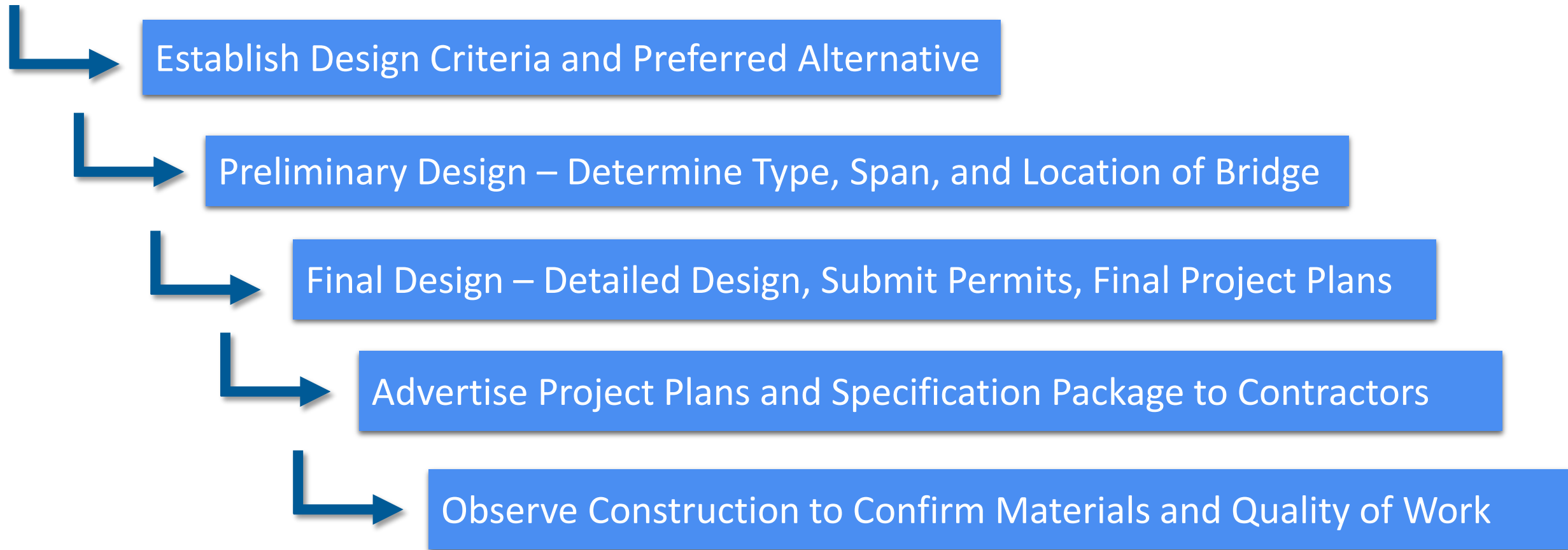
- Existing bridge has surpassed its useful lifespan
- New bridge will have a 75-year + lifespan
- Existing top of bridge is within 9-inches of the current design flood elevation
- Site abuts tidal salt marsh on all sides
- Currently no pedestrian facilities across existing bridge

Information to be Determined

- Length of proposed span
- Roadway cross section
- Elevation of new bridge and roadway
- Effects of project on surrounding tidal salt marsh
- Final structure type and material
- Exact timeframe for completion of design and start of construction



Gather Site Data and Community Input





Project & Community Considerations

- Planning for Future: Sea-Level-Rise
- Pedestrian & Bike Access
- Safety / Speed
- Island Access During Construction
- Other??