

Yarmouth 295 Bridge Replacements



By Sam Bloniasz

Introduction

I am Sam Bloniasz

- 3rd Year Construction Engineering Technology Student at University of Maine Orono
- This past summer I spent with CPM Constructors and I plan on returning next summer as well
- Previously I have worked at my hometown's Highway Department and at Putnam Pipe Inc.



CPM Constructors

CPM Constructors is a General Contractor based primarily out of Freeport, Maine.

They specialize in bridge, pile driving, railroad, historic rehabilitation and marine construction work.

Their primary clients include DOTs, Turnpike authority, towns, etc.



What is happening in Yarmouth?

The project in Yarmouth is a two bridge replacement (North and South bound)

First the new south bound bridge was built

Then the old North Bound Bridge was removed

Currently the new north Bound Bridge is being erected

Finally the old South Bound Bridge will be demolished



Challenges Along the Way

Switching Rebar Types

Coordinating Subs

Pick plans

Traffic Controls

Lead Beam Disposal



Switching Rebar Types

Original rebar was all Stainless Steel

Then due to a nickel shortage because of the Ukrainian War we had to switch to ChromX

ChromX is much more affordable than stainless



Coordination of Subs

Earthwork and Paving- Shaw Bros

Guardrail Sub - CA Newcomb and Sons

Membrane Sub - Nicom

Piling and sheet wall sub - HB Fleming



Pick Plan Design

Many challenges

- Estimating weights of bridges from the early 60s
- We had to brace the last beam from twisting and falling over



Traffic Control

We had to reconfigure traffic for the construction of NB Pier



Where is Yarmouth is currently at?

Currently working on the NB Substructure and the goal is to set steel in April of 2024 and have the bridge open to traffic by end of 2024 season

The. demo the remaining bridge throughout the winter of 2024-2025. All 2025 work is Rt. 1 work including the addition of a multi-use path

Completion is November 1st 2025.

