

## Duxbury Seawall Construction Project Timeline

Version 4.0 (September 27, 2022)

**Project Lead:** Planning Department

**Project Contact:** Christopher Ryan

**Assumptions:** See notes below Gantt Chart

Project Contact: Christopher Ryan				YEAR		2022												2023												2024												2025												2026												2027														
Assumptions: See notes below Gantt Chart				MONTH		S O N D J F M A M J J A S O N D												J F M A M J J A S O N D												J F M A M J J A S O N D												J F M A M J J A S O N D												J F M A M J J A S O N D																										
TASK				LEAD	OTHER	PROGRESS	START	END																																																																								
Local Due Diligence																																																																																
Seawall Construction Easements	EH		0%		11/1/2022	TBD																																																																										
Outreach Program Elements	CR		0%		Ongoing	12/10/2026																																																																										
Property Owners Meeting #1 (Beach Nourishment Permitting)	CR		0%		10/17/2022	11/16/2022																																																																										
Property Owners Meeting #2 (Seawall Pre-Construction)	CR		0%		5/13/2024	6/6/2024																																																																										
Property Owners Meeting #3 (Seawall Construction)	CR		0%		8/1/2025	9/17/2025																																																																										
Property Owners Meeting #4 (Beach Nourishment Construction)	CR		0%		9/1/2026	9/24/2026																																																																										
Public Meeting #1 (Beach Nourishment and Seawall)	CR		0%		11/10/2022	12/7/2022																																																																										
Public Meeting #2 (Seawall)	CR		0%		5/9/2024	6/9/2024																																																																										
Public Meeting #3 (Seawall)	CR		0%		9/28/2024	9/28/2024																																																																										
Public Meeting #4 (Seawall)	CR		0%		11/12/2026	12/9/2026																																																																										
Public Meeting #5 Seawall and Beach Nourishment)	CR		0%		12/1/2025	12/1/2025																																																																										
Establish Internal Project Team	TBD		0%		10/5/2022	11/30/2022																																																																										
Related Tasks																																																																																
Beach & Dune Nourishment Plans and Designs			100%		COMPLETED																																																																											
Beach Nourishment Grants			100%		COMPLETED																																																																											
BN Grant 1: Alternatives, Outreach, Permitting			100%		COMPLETED																																																																											
BN Grant 2: Permitting and Public Education			100%		COMPLETED																																																																											
BN Grant 3: Permitting	CR/GGW/H		50%		N IN PROGRESS (1/23)																																																																											
Beach Nourishment Permitting	CR/GGW/H		40%		N IN PROGRESS (1/23)																																																																											
BN Permitting: Conservation Commission (OOC)			100%		COMPLETED																																																																											
BN Permitting: MEPA Review (Expanded ENF + EEA Fin. Rec. Dec.)			100%		COMPLETED																																																																											
BN Permitting: Mass DEP Div. of Waterways (Ch. 91 Permit); p. 7, FY22 App.	CR/GGW/H		0%		N IN PROGRESS (1/23)																																																																											
BN Permitting: MA CDM (f.d. Consistency Determination); p. 7, FY22 App.	CR/GGW/H		0%		N IN PROGRESS (1/23)																																																																											
BN Permitting: US Army Corps of Engineers (Dobury Permit); p. 7, FY22 App.	CR/GGW/H		0%		N IN PROGRESS (1/23)																																																																											
Consultation: National Marine Fisheries Service (NMFS)	CR/GGW/H		0%		N IN PROGRESS (1/23)																																																																											
Consultation: US Fish and Wildlife Service (FWS)	CR/GGW/H		0%		N IN PROGRESS (1/23)																																																																											
Beach Nourishment Easements Secured	EH		90%		1/1/2022	10/14/2022																																																																										
Easements Recording	EH		0%		10/17/2022	10/21/2022																																																																										
Beach Nourishment Project Execution	TBD		0%		8/13/2026	4/30/2027																																																																										
Plans Development																																																																																
Formalize Plan Set	PB				4/1/2023	5/26/2023																																																																										
Funds Seeking																																																																																
Internal Municipal Funding (e.g., borrowing, settlement, etc.)	CR				11/1/2022	3/14/2023																																																																										
Dam and Seawall Removal or Repair Grant (See Table 2 below)	CR				11/30/2022	12/31/2027																																																																										
Other Grant Program Opportunities (See Table 2 below)	CR				TBD	12/31/2027																																																																										
Pre-Construction and Permitting																																																																																
Seawall Permitting	TBD		0%		6/1/2023	6/30/2024																																																																										
Seawall: Conservation Commission	TBD		0%		6/1/2023	6/30/2024																																																																										
Seawall: MEPA	TBD		0%		6/1/2023	6/30/2024																																																																										
Seawall: US Army Corps of Engineers	TBD		0%		6/1/2023	6/30/2024																																																																										
Seawall: Mass DEP Division of Waterways	TBD		0%		6/1/2023	6/30/2024																																																																										
Seawall: MA CDM	TBD		0%		6/1/2023	6/30/2024																																																																										
Construction																																																																																
Bid Solicitation Process (incl. contract talks and NTP)	CR/PB/K		0%		7/1/2024	9/29/2024																																																																										
Shop Drawings Submit/Review/Approve	TBD				9/23/2024	10/25/2024																																																																										
Construction Process	TBD				10/28/2024	10/30/2026																																																																										
Pre-Construction Conference	TBD		0%		6/23/2023	6/30/2023																																																																										
Contractor Mobilization	TBD				11/8/2024	11/13/2024																																																																										
Wall Construction	TBD		0%		11/13/2024	10/5/2026																																																																										
Site Restoration and Punch List	TBD		0%		10/5/2026	10/14/2026																																																																										
Demobilization and Contract Closeout	TBD		0%		10/19/2024	11/20/2026																																																																										

### Assumptions and Notes

1. Seawall Permitting can proceed as soon as plans are reviewed and a consultant secured (see Note 12).
2. One property owners meeting and one public meeting for beach nourishment project.
3. Three property owners meetings and three public meetings for seawall construction project.
4. Assuming Internal project team of Ryan, Rofco, Buttkus, Reed and external advisory group of DBR, DBMC, DDC, DSC, FinCom, and Citizen Reps (as possible, Marshfield).
5. Beach nourishment easements to be recorded in October 2022 and nourishment permitting should be secured before seawall construction (as possible may require this).
6. Beach nourishment project should begin AFTER most of seawall project completed as per Woods Hole Seawall Homeowners. However, CSM may not concur.
7. Beach nourishment project estimated to increase to cost between \$4.4 Million on low end (Alternative 1) and \$8.4 Million on high end (Alternative 3); See Note 3 at telt.
8. Town must individually identify sources of funding for construction of nourishment project. See Note 3 at telt.
9. Final permit for beach nourishment contingent on current CSM grant application award, which was SUCCESSFUL.
10. UAC permitting for nourishment is a wild card that could impact this timeline.
11. Initial funds to be secured for seawall construction in March 2023 via ATM action. Grants applied for to supplement.
12. There have been NO seawall permits applied for as yet (confirmed 9/12/2022). Previous permits approved but expired.
13. Based on Section 1 (Replace Ertse Seawall) of Amory Assessment Report entitled "Duxbury Beach Seawall Assessment and Replacement Phasing Plan" dated 6/1/2020
14. Scenario 1 Cost Estimate \$4.4 million (updated November 2022)
15. Only waters with priority estimated higher than the other 1000' of beach to the southern 300 feet of wall cannot be done between April 1 and October 31.
16. Seawall construction closed in October 2026 or earlier, weather permitting.
17. Local seawall funding could include tax-exempt or direct, private bank, MA Infrastructure Bank.

### Questions and Unknowns

- 1 How long are the various beach nourishment permits good for? The ConCom Order of Conditions is good for 3 years and can be extended.  
a. USACE = 10 yrs.

**Resources and Links (See separate funding resource maxrix available upon request)**

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|---|---|
| 1 | <a href="https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities">Building Resilient Infrastructure and Communities (BRIC) funds - FEMA Program</a><br>Link: <a href="https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities">https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities</a><br>Maximum: \$2 million per grant<br>Eligibility: Apply through the Commonwealth - Likely MEA   <b>Open Next:</b> Fall 2022   |
| 2 | <a href="https://www.mass.gov/service-details/dam-and-seawall-repair-or-removal-program-grants-and-funds#:~:text=O">Dam and Seawall Repair or Removal Loan Program - Commonwealth of Massachusetts</a><br>Link: <a href="https://www.mass.gov/service-details/dam-and-seawall-repair-or-removal-program-grants-and-funds#:~:text=O">https://www.mass.gov/service-details/dam-and-seawall-repair-or-removal-program-grants-and-funds#:~:text=O</a><br>Maximum: \$2 million per loan<br>Eligibility: CATEGORY 2 - Apply through the Commonwealth - EEA   <b>Open Next:</b> Oct. or Nov. 2022   <b>Close Next:</b> 8 W |
| 3 | <a href="https://www.mass.gov/service-details/coastal-resilience-grant-program">Coastal Resiliency Grants for Beach Nourishment</a><br>Link: <a href="https://www.mass.gov/service-details/coastal-resilience-grant-program">https://www.mass.gov/service-details/coastal-resilience-grant-program</a><br>Maximum: \$ 2 Million per grant<br>Eligibility: CATEGORY 5 (Shoreline Restoration)   <b>Open Next:</b> FY24 Cycle   |
| 4 | <a href="#">Infrastructure Investment and Jobs Act</a> (Pending)  |
| 5 | <a href="#">Inflation Reduction Act</a> (Pending)   |
| 6 | <a href="https://www.nfwf.org/programs/national-coastal-resilience-fund?activeTab=tab-2">National Coastal Resilience Fund (NOAA and NFWF) for beach nourishment construction</a><br>Link: <a href="https://www.nfwf.org/programs/national-coastal-resilience-fund?activeTab=tab-2">https://www.nfwf.org/programs/national-coastal-resilience-fund?activeTab=tab-2</a><br>Maximum: \$ 2 Million per grant<br>Eligibility: CATEGORY 4 (Restoration Implementation) by local governments   <b>Open Next:</b> June 30, 2023   |