



MEETING POSTING

TOWN OF NANTUCKET

Pursuant to MGL Chapter 30A, § 18-25

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NANTUCKET TOWN CLERK
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Committee/Board/s	Coastal Resilience Advisory Committee
Day, Date, and Time	Tuesday, November 8 th , 2022, at 10am
Location / Address	☐ REMOTE PARTICIPATION VIA ZOOM The meeting will be aired at a later time on the Town's Government TV YouTube Channel https://www.youtube.com/channel/UC-sgxAlfdoxteLNzRAUHIXA
Signature of Chair or Authorized Person	Mary Longacre, Chair Vincent Murphy, Coastal Resilience Coordinator
WARNING: IF THERE IS NO QUORUM OF MEMBERS PRESENT, OR IF MEETING POSTING IS NOT IN COMPLIANCE WITH THE OML STATUTE, NO MEETING MAY BE HELD!	

Coastal Resilience Advisory Committee

Agenda for Tuesday, November 8th, 2022, at 10am

A. Convene in Open Session via Zoom

Join Zoom Meeting

<https://us06web.zoom.us/j/86863383148?pwd=YkE0YUVNMIU1NnpwYTJ6clg4U241QT09>

Meeting ID: 868 6338 3148

Passcode: 917271

1. Call to Order

2. Meeting announcements

- Script for remotely conducting Open Meetings, read by the Chair
- The meeting is being audio / visually recorded

3. Review of draft letter for Select Board to send to Mass DEP in support of ConCom's 8/11/22 letter
 - See packet for original Conservation Commission letter and new draft CRAC/Select Board letter.
 - The Mass office of Coastal Zone Management StormSmart Fact Sheets are available from <https://www.mass.gov/service-details/stormsmart-properties>
4. Review and approval of annual report to be submitted. See packet
5. Status update on CRP recommendations, one year in, and discussion of year two priorities. See packet
6. Approval of Minutes from October 11th and 25th.
7. Public Comment
8. New business, Committee & Natural Resources Dept. reports from Planning Board, Conservation Commission, Harbor and Shellfish Advisory Board, Select Board, Advisory Committee of Non-Voting Tax Payers, and other committee members.
 - Cape Cod Climate Change Collaborative hosted a free online "Net Zero Conference" on October 28th. <https://capecodclimate.org/nz-22/>
9. Discussion of upcoming meeting dates and topics: Next meeting dates are November 22th, and December 13th. No meeting on December 27th.
10. Motion to adjourn

Coastal Resilience Advisory Committee packet information for November 8th, 2022

1. Original letter from Conservation Commission to Mass DEP, August 11, 2022
2. CRAC combined letter, updated after October 25 CRAC meeting
3. Annual report
4. Coastal Resilience Plan – 1 year on.

1. Original letter from ConCom, August 11, 2022

TOWN OF NANTUCKET CONSERVATION COMMISSION

ASHLEY ERISMAN, CHAIR
131 PLEASANT STREET
NANTUCKET, MA 02554

CONCOM@NANTUCKET-MA.GOV
508-228-7230



August 11, 2022

MassDEP Waterways Program
1 Winter Street
5th Floor
Boston, MA 02108

Re: Chapter 91 Compliance Questions and Request for Inspections

Based on a unanimous vote (6-0) at the August 11, 2022 meeting of the Nantucket Conservation Commission, the local regulatory body charged with upholding the protections of the Massachusetts Wetlands Protection Act and the Nantucket Wetland Regulations, I as chair was authorized to provide this letter requesting assistance from the MassDEP Waterways program. The Commission understands that they have no control over the Chapter 91 license process and compliance but want to help insure that decisions that are being made are consistent with the policies and procedures of MassDEP Waterways.

The Commission has been receiving applications for repairs to existing Coastal Engineering Structures like bulkheads and groins over the past years and are seeking some guidance on how these structures are viewed under the Chapter 91 licensing process. Specifically, when these structures were licensed the on the ground conditions were surveyed and placed on plans. As time has passed waterlines have moved landward and resource areas changed with waterlines now against structures during most every tide cycle and cutting off reliable public access. Is there a trigger for an inspection against the Chapter 91 license where a remedy to this situation may be required? Does the license allow for reconstruction even with the original permit conditions no longer existing? As an example whether the original structure being protected is no longer present or that the resource areas have changed. How are these situations addressed?

The Commissions hope is that MassDEP waterways could work with the Commission's staff at the Town of Nantucket Natural Resources Department to assess the existing licensed structures and determine if action needs to be taken or if MassDEP Waterways determines these structures to be in compliance with the existing license and conditions. As climate change and sea-level rise continue to impact Massachusetts coastlines having clear guidance on how these types of

2. CRAC combined letter, updated after October 25 CRAC meeting

November XX, 2022

MassDEP Waterways Program

1 Winter St, 5th Floor

Boston, MA 02108

RE: Chapter 91 Compliance Questions and Request for Inspection

At the request of its Conservation Commission representative member, the Coastal Resilience Advisory Committee at its October 25th meeting approved submitting a request asking The Select Board of the Town of Nantucket to join and support the request dated August 11, 2022 from the Nantucket Conservation Commission for assistance from the MassDEP Waterways program to ensure that decisions made locally are consistent with the policies and procedures of MassDEP Waterways.

The Select Board charged the Coastal Resilience Advisory Committee with “Reviewing pertinent existing regulations to include coastal resiliency accommodations; identify any “disconnects” between regulations and practice and/or conflicts and recommend ways to achieve alignment; reviewing proposed pertinent regulations for coastal resiliency purposes.” The Coastal Resilience Advisory Committee delivered a Coastal Resilience Plan (CRP) to the Select Board, which adopted it on January 12th, 2022. One of the elements of public feedback that the CRP received is the sentiment that “nature-based strategies should be implemented wherever feasible with a clear emphasis on minimizing ecological impacts and maximizing ecological and public access benefits. Preserving Nantucket’s beaches and coast into the future for as long as possible should be (the) primary goal.”

Given that the Massachusetts Office of Coastal Zone Management (CZM) has specified in its StormSmart Properties Fact Sheet 7: Repair and Reconstruction of Seawalls and Revetments regarding Beach Access that “According to the requirements of the Massachusetts Public Waterfront Act (Chapter 91), coastal property owners are required to maintain public access along the shore for the purpose of ‘fishing, fowling and navigation’ ...When erosion results in no fronting beach at mean high tide, then the reconstruction or repair of the structure will require a license from the Mass DEP Waterways Program that specifies how the property owner will maintain public access,” we ask that Mass DEP require property owners on Nantucket in the future to obtain a license for reconstruction under Chapter 91 in

advance before appearing before the Nantucket Conservation Commission for a Notice of Intent to effect said reconstruction.

Thank you for your consideration

Sincerely,

Jason Bridges, Chair

Nantucket Select Board

Mary Longacre, Chair,

Nantucket Coastal Resilience Advisory Committee

3. CRAC annual report

Coastal Resilience Advisory Committee report from July 1, 2021 to June 30, 2022.

Contact Vince Murphy, the Town's Coastal Resilience Coordinator (CRC) & staff member assigned to the CRAC with any questions about CRAC's activities. Contact information and links to the documents and presentations mentioned in this annual report may be found on the CRAC's page on the Town's website: <https://nantucket-ma.gov/1391/Coastal-Resiliency-Advisory-Committee>

Coastal Resilience Advisory Committee members in this term were Mary Longacre, Chair, (At-Large), Peter Brace, Vice-chair (Harbor & Shellfish Advisory Board), Fritz McClure* Secretary (Planning Board) Gary (Beller, Advisory Committee of Non-Voting Tax Payers), Sarah Bois, Ph.D. (At-Large), Matt Fee, (Select Board), Ian Golding, (Conservation Commission), Jennifer M. Karberg, Ph.D, (Nantucket Conservation Foundation) & Joanna Roche, At-Large.

The CRAC met entirely remotely via Zoom due to the pandemic in 2020-2021.

*Fritz McClure resigned from Planning Board and his representative seat on CRAC in April 2022. Peter Brace volunteered and was duly appointed the Pro-tem Secretary until the end of the term.

COASTAL RESILIENCE PLAN:

The CRAC completed and unanimously voted to accept the Nantucket Coastal Resilient Plan (CRP) in November 2021. In January 2022 the Select Board unanimously endorsed the Nantucket Coastal Resilience Plan. The plan is publicly available online at <https://www.nantucket-ma.gov/DocumentCenter/View/40278/Nantucket-Coastal-Resilience-Plan-PDF>

The CRAC developed the Coastal Resilience Plan with a Project Team consisting of Arcadis as the primary consulting group, and sub-consultants Stoss; One Architecture; and The Craig Group. Completion of the CRP was a key goal of the committee as outlined in the Committee Charter. Implementation of the 40 recommendations in the CRP is now a key focus for the CRAC.

PARTICIPATION IN OTHER RESILIENCE EFFORTS

The CRAC participated as a stakeholder in the Baxter Road Engineering Feasibility Assessment coastal resilience project led by Arcadis that was completed in October 2021. CRAC has not taken a position on this project. Arcadis' final report is available online at <https://www.nantucket-ma.gov/DocumentCenter/View/40516/Baxter-Road-Long-Term-Planning-Final-Memo-October-20-2021-PDF>

COMMITTEE REPORTS PRODUCED:

Updating Sea Level Rise recommendation supporting material

In Spring 2022 CRAC began the process of updating the supporting information for the Town Policy on sea level rise planning. The wording of the recommendation will remain the same, which is: "The CRAC recommends all Town Departments, Boards, Commissions and Committees and any service providers, contracted engineers and consultants need to be aware of and need to use the NOAA "High" scenario to accommodate current storm surge as well as Sea Level Rise in their decisions, deliberations and planning. These data are periodically updated by NOAA and will be posted on the CRAC page on the Town's website."

Quarterly reports

In order to provide a regular platform to keep the Select Board and community informed of Committee actions, and also provide regular recommendations and requests to the Select Board, the CRAC is presenting quarterly reports to the Select Board. Quarter 1 of January to March 2022 was presented to the Select Board in June 2022.

CRAC BECAME A PERMANENT AND EXPANDED COMMITTEE.

CRAC was established in 2019 with 2-year terms for all members. The terms were extended by 1 year for all members in spring 2021 due to the Covid-19 pandemic and the impending completion of the Coastal Resilience Plan. In May 2022, the CRAC requested, and the Select Board approved, making the committee permanent and expanding the membership from 9 to 11 seats. Two new seats were created to include a seat for a representative from Nantucket Land Bank and a seat for a representative from Capital Program Committee. The three reappointed At Large members were assigned term lengths of one, two and three years beginning on July 1, 2022 to stagger future appointments.

GRANT APPLICATIONS

In January 2022 the CRAC voted unanimously to make the Downtown Flood Barrier project (CRP Projects 2-2 and 2-6) the priority projects to move forward for implementation and grant applications. To that end, in June 2022 the CRAC and Coastal Resilience Coordinator, with assistance from Arcadis, submitted a grant application to the Massachusetts Office of Coastal Zone Management (CZM) to begin the 2-6 Downtown Neighborhood Flood Barrier Phase 1 project.

PUBLIC OUTREACH:

Through summer and fall 2021, the CRAC had a number of presentations on the content of the CRP, through which both the committee and the public provided feedback.

In April 2022 CRAC had a special meeting to have a presentation from Woods Hole Group on a project developed by The Trustees of Reservation and Nantucket Conservation Foundation related to the implementation of a CRP project on Coatue, Great Point & the Haulover.

Special guest speakers during the year included Robert Davis, General Manager of the Steamship Authority, Courtney Rocha, Southeast Regional Coordinator, Municipal Vulnerability Preparedness (MVP) Program, and Stephen McKenna, Cape Cod and Islands Regional Coordinator, Mass Office of Coastal Zone Management (CZM)

OTHER EVENTS:

CRAC participated in the Design Thinking Workshop for Town Departments, Board, Committee & Commission chairs and large landowning organizations including the Land Bank and Nantucket Conservation Foundation. This two-day event on March 7 & 8 2022 resulted in broader understanding of the Coastal Resilience Plan and generated number and innovative ideas on implementation of the CRP. <https://sway.office.com/xzqM7zsrpWKGmGD1?ref=Link>

The CRAC together with ACKlimate successfully petitioned the Select Board to declare September 2021 Climate Change Awareness Month on Nantucket, with an associated calendar of events from ACKlimate partners to mark the month.

GOALS:

CRAC will continue to review, discuss and report on research, new publications, and local projects regarding the threats climate change, sea level rise, erosion, pose to the islands.

The Coastal Resilience Advisory Committee endorses the goals of the Design Thinking Workshop and wants to see the “Just do it” list implemented.

Implementation of the CRP is now a main goal of the committee. Continued public outreach and education is also a committee goal. Funding CRP projects over the coming years is an ongoing discussion.

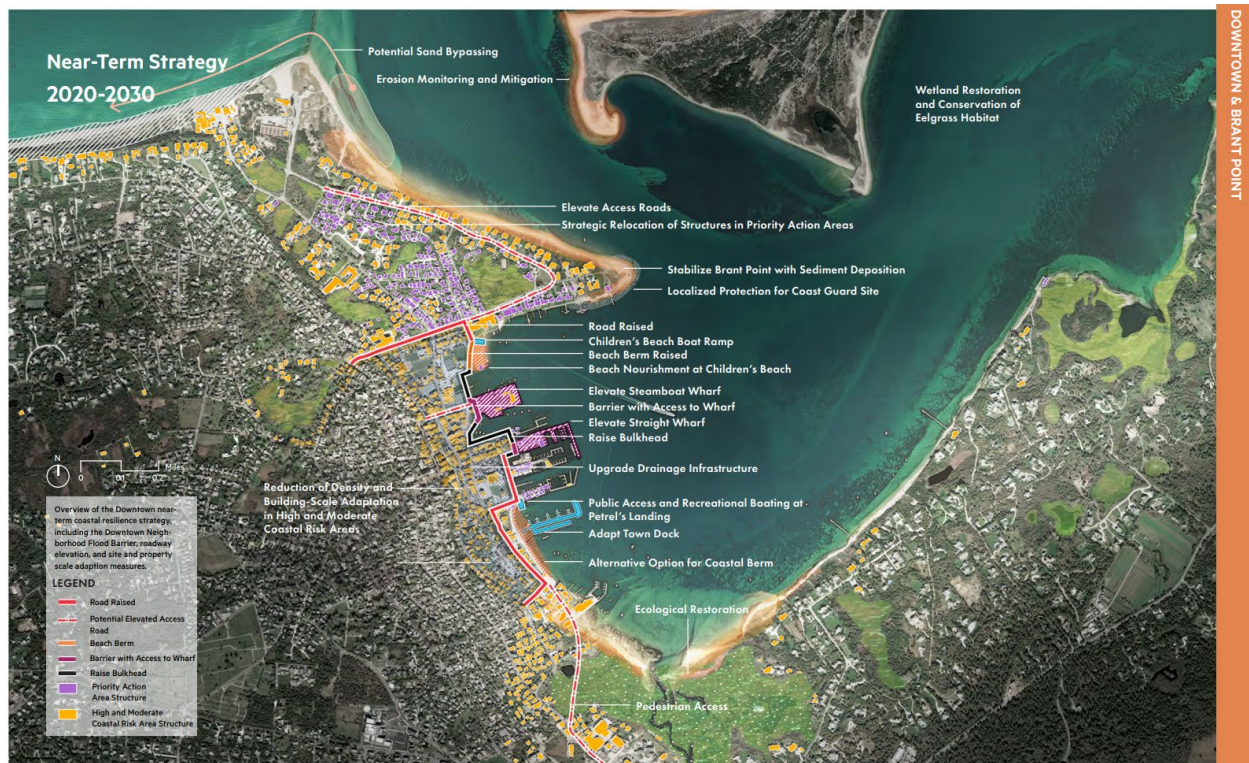


Image of the Downtown Neighborhood Flood Barrier as shown on page 145 of the Nantucket Coastal Resilience Plan. To see this image in the report, and all other CRP recommendations go to <https://www.nantucket-ma.gov/DocumentCenter/View/40278/Nantucket-Coastal-Resilience-Plan-PDF>

4. CRP progress 1 year on

Priority	Number	Project Name	Status	Notes
1	1-1	Community Outreach on Property Owner Resilience Best Practices	Not started	Mentioned in one CRAC meeting as a possible committee project
1	1-2	Updates to Zoning By-Law	Not started	To be led by PLUS and may need specialized consultants
1	1-3	Updates to Wetland Ordinance and Regulations	In development	NRD and Conservation Commission actively undertaking this
1	1-4	Strategic Retreat and Relocation Program	In development	Putting a scope of services together
1	1-5	Coastal Resilience & Sustainability Interdepartmental Working Group	Complete	Began meeting in April and meets quarterly. Vince is the Chair.
3	1-6	Joint Staff Review of Development Proposals	In development	A working group objective
1	1-7	Coastal Resilience and Sustainability Program	Not started	A priority for the Sustainability Programs Manager
2	1-8	Shoreline Change Monitoring Program	Complete	Morgan and Vince began in December 2021. Developing a webpage for December / January.
1	1-9	Sediment Sourcing and Transport Study	In development	Scope written and awaiting bid posting.
2	1-10	Stormwater Management Plan	In development	DPW and Sewer Dept actively developing this. Linked to 1-13
1	1-11	Sediment Budget	Not started	Needs 1-9 Sediment Transport Study complete first to inform this plan
2	1-12	Stormwater By-Laws Assessment	In development	Linked with 1-13
2	1-13	Stormwater By-Law and Regulations Update	In development	DPW and Sewer Dept actively developing this.
1	1-14	Update locally-adopted sea level rise scenarios and Best Available Flood Hazard Data	In development	CRAC is waiting on MC-FRM to be published on Town GIS to finish and update recommendation to Select Board.
1	2-1	Steamboat Wharf Resilience	Not started	January 2022, Steamship Authority said 6-8 years before they will begin facility updates on Nantucket. Plan to work with Steamship then.
1	2-2	Downtown Neighborhood Flood Barrier	In development	CRAC priority, linked with 2-6. Grant applied for (not won) to undertake a feasibility study and will continue to seek other opportunities
3	2-3	Easton Street and Hubert Avenue Road Raising	Not started	A priority 3 project slated for commencement before 2030.
3	2-4	Washington Street Extension and Consue Springs Walkway Raising	Not started	A priority 3 project slated for commencement before 2030. Land Bank undertaking works that may extend current usefulness
2	2-5	Building Scale Resilience at 37 Washington Street	Not started	Has not been talked about. Meant to be an example to the community
1	2-6	Downtown Neighborhood Flood Barrier - Phase 1 Project	In development	CRAC priority, linked with 2-2. Grant applied for (not won) to undertake a feasibility study and will continue to seek other opportunities

Priority	Number	Project Name	Status	Notes
1	3-1	Madaket Road Raising and Bridge Conversion	Not started	Briefly discussed with sewer Madaket.
1	3-2	Ames Avenue Bridge Resilience	In development	NRD and Admin developing a project (just started 2 weeks ago, so researching). Linked with 3-4
3	3-3	F Street Boat Ramp	Not started	To commence after 2030
1	3-4	Madaket Erosion Mitigation Pilot	In development	NRD and Admin developing a project (just started 2 weeks ago, so researching). Linked with 3-2
1	3-5	Department of Public Works Facility and Land Fill Resilience	Not started	Bigger question first. Will DPW relocate? Then, plan appropriately.
2	4-1	Polpis Road Raising and Bridge Conversion at Folgers Marsh	In development	Tried to revive this project with NCF with a feasibility assessment and plan development in the spring with a grant application. Failed, but outline developed.
2	4-2	Polpis Road Raising, Culvert Expansion, and Wave Attenuation at Sesachacha Pond	In development	NRD was awarded a grant from SNEP for wave attenuation
3	4-3	Coatue Erosion Mitigation and Dune Resilience	In development	NCF and TTOR project. Initial study completed in spring 2022. More study and implantation required. How can CRAC/ Town help?
1	4-4	Numerical Modeling Study of Coatue Breaching	Not started	Scope developed in the spring but didn't progress. Could be picked up with the right grant application.
3	5-1	Sconset Bluff Dune Restoration	Not started	Anticipated to commence in 2026.
2	5-2	Codfish Park Dune Restoration	Not started	Anticipated to commence in 2024
2	5-3	Baxter Road Relocation Planning	In development	NRD and Admin began a contract with Arcadis in February 2022 to run for 12-18 months.
2	5-4	Sconset Bluff Nearshore Breakwaters Feasibility Study	Not started	Anticipated to commence in 2023. NOI for geotube in progress. May be a cost prohibitive project.
2	6-1	Nantucket Memorial Airport Dune Restoration	Not started	Anticipated to commence in 2026
1	6-2	Surfside Wastewater Treatment Plant Dune Restoration	In development	Sewer Dept is considering options
1	6-3	Tom Nevers Field Erosion Mitigation Pilot Project	In development	Being led by Parks and Recreation in DPW. Project just commenced.
2	6-4	Surfside Emergency Access Planning	Not started	Could be a brief project but need to find a way to advance it.
2	6-5	Sheep Pond Road Relocation Study	In development	Not currently a study, but relocation efforts underway
3	7-1	North Shore Dune Restoration and Nourishment	Not started	Anticipated to commence in 2026
3	7-2	Sand Pumping Feasibility Study	Not started	Anticipated to commence in 2026. possibly liked to 7-1. may be cost prohibitive

Complete	2
In development	19
Not started	19

