



## **Breezy Point/Roxbury Planning Committee Meeting #4**

November 4, 2013

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# Agenda

- 1. Project Update** **7:00 - 7:30**
- 2. Initial Strategies & Projects** **7:30 – 8:30**
- 3. Q&A and Next Steps** **8:30 – 8:45**

# Agenda

**1. Project Update** **7:00 - 7:30**

**Status & Key Next Steps**

**Governor's Conference**

**Public Outreach**

**2. Initial Strategies & Projects** **7:30 – 8:30**

**3. Q&A and Next Steps** **8:30 – 8:45**

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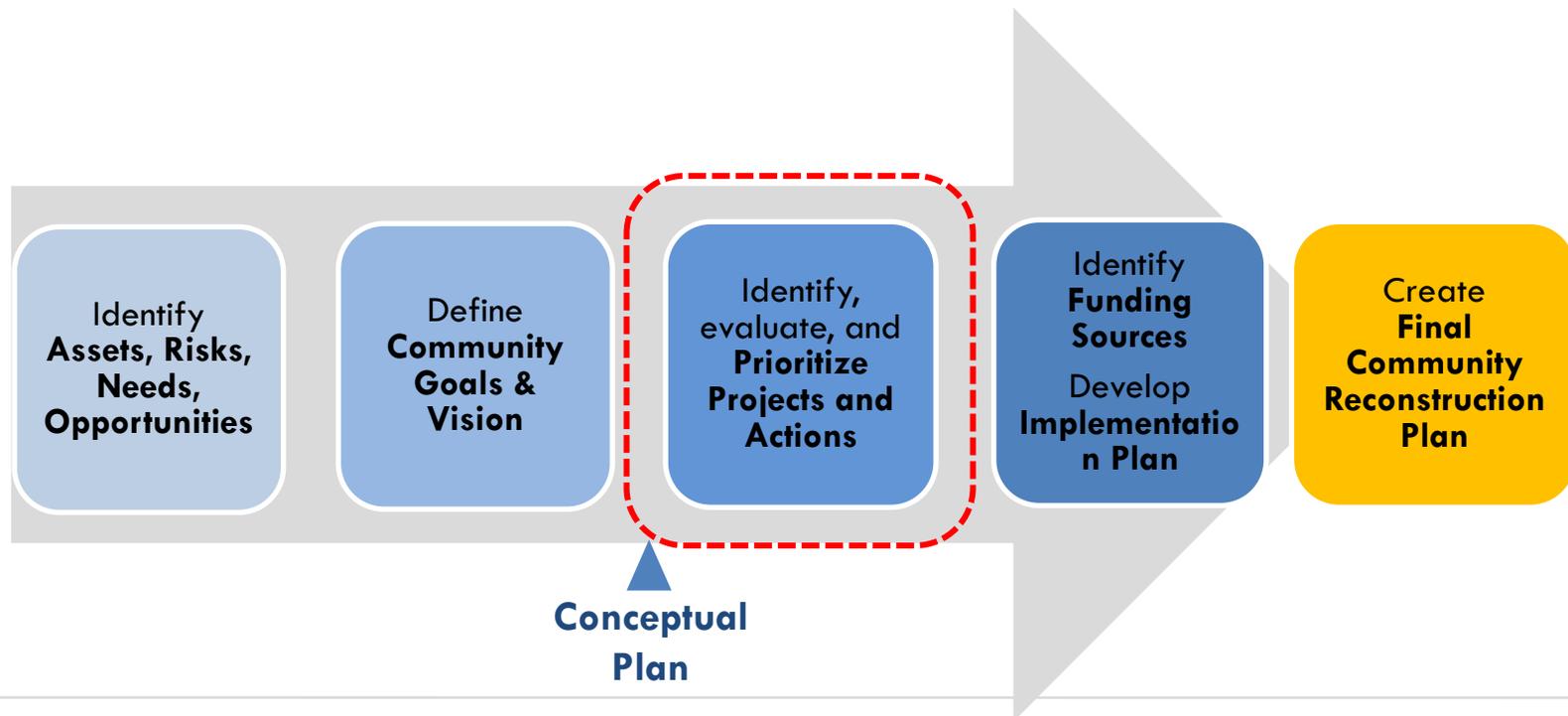
Today's meeting will focus on developing the strategies and initial project ideas for the Breezy Point communities.

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## Objectives:

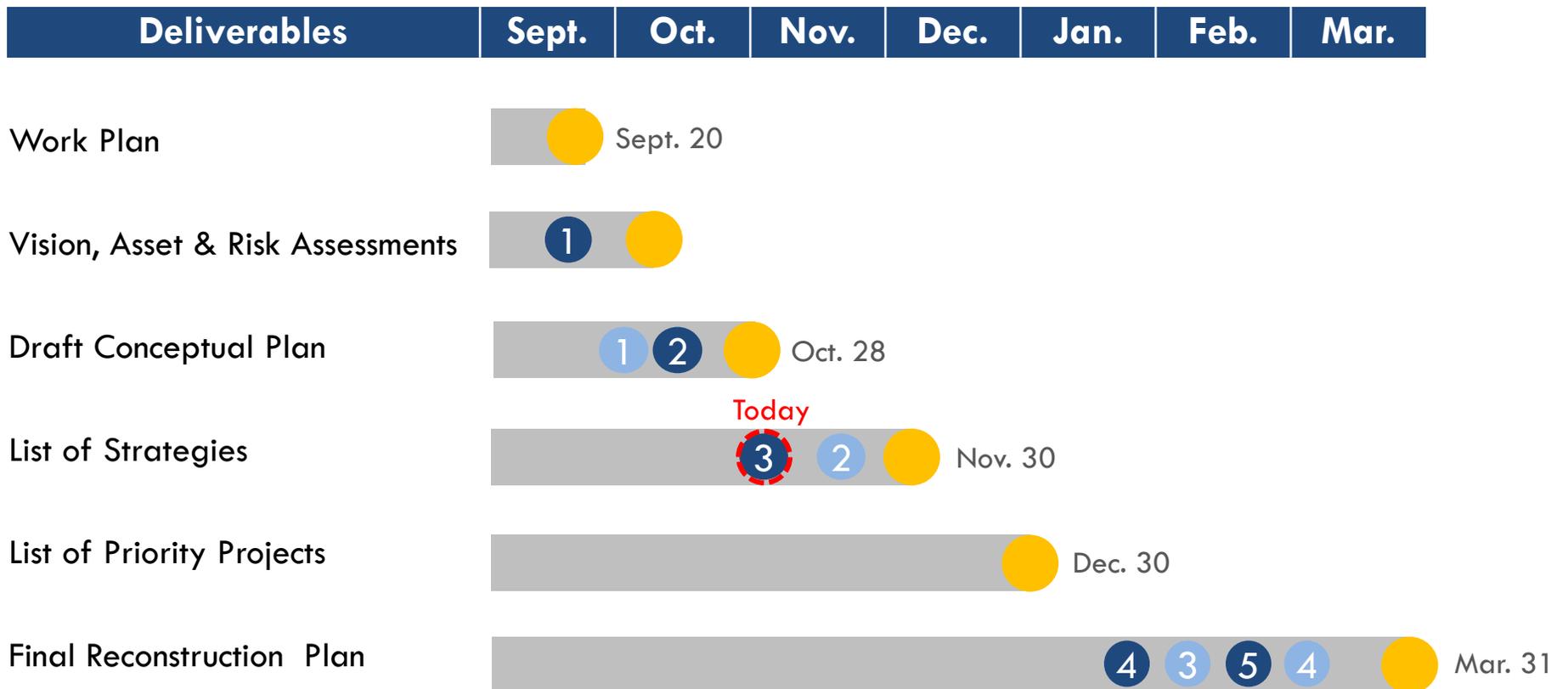
Discuss strategies and projects

Prepare for the Public meeting



# NY Rising Community Reconstruction Program Schedule

- Planning Committee Meeting
- Public Meeting
- Deliverable Due Date



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# Conceptual Plan

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Posted on NY Rising website by end of week:

<http://stormrecovery.ny.gov/nycrcr/community/breezy-point>



## **Breezy Point Community Reconstruction**

Conceptual Plan  
October 28, 2013



# Online Feedback

<http://breezypoint.nyrisingmap.org>

The screenshot displays the NY Rising Breezy Point online feedback map. The map shows various asset categories, including Economic, Health and Social Services, Housing, Infrastructure Systems, and Natural and Cultural. A specific asset, 'BALLFIELD & TENNIS COURTS', is highlighted in green. The interface includes a 'Suggest Correction' button, a comment box, and a list of recent comments on the right side.

**NY Rising: Breezy Point** WHAT TO DO

SIGN IN WITH [Twitter](#) [Facebook](#)

Asset categories:

- Economic
- Health and Social Services
- Housing
- Infrastructure Systems
- Natural and Cultural

**NATURAL AND CULTURAL**

**BALLFIELD & TENNIS COURTS**

Parks and Recreation.

Risk zone: High

[Corrections](#) [Issues](#)

Tell us what we have missed or gotten wrong.

Comment

Your Name

[Suggest Correction](#)

Comments on the whole neighborhood

- NY Rising Team commented on BREEZY POINT BEACH
- NY Rising Team left a neighborhood comment
- NY Rising Team commented on POINT BREEZE VFD
- NY Rising Team commented on 328 ROCKAWAY POINT BLVD
- Pat Burke commented on FERRY DOCK
- Anne Tully commented on BREEZY POINT BEACH
- Maryellen Rudolph commented on BREEZY POINT BEACH
- Summer resident since 1950. commented on BREEZY POINT BEACH
- homeowner left a neighborhood comment

Powered by [Shareabouts](#), a project of [OpenPlans](#).

Or email: [info@stormrecovery.ny.gov](mailto:info@stormrecovery.ny.gov)

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# NY Rising Governor's Conference – October 22, 2013

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## NY Rising to The Top Competition

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### **NY Rising Community Reconstruction Program Funds:**

Breezy Point: up to \$19.5 million

Possible additional funds (\$3 million per category)

1. Regional Collaboration
2. Use of Technology in the Planning Process
3. Community Involvement
4. Inclusion of Vulnerable Populations
5. Use of Green Infrastructure
6. Innovative and Cost-Effective Financing
7. Infrastructure Investment with Multiple Co-Benefits

## Public Outreach – Public Meeting #2



### New York Rising Community Reconstruction Program Public Information Meeting

#### Breezy Point Envisions a Resilient Future Make Your Voice Heard!

Tuesday, November 12, 2013  
7:00pm–8:30pm

**Colony Theater**

Breezy Point community members are invited to participate in the second public meeting to share feedback on Breezy Point's resiliency strategies and projects.



**Colony Theater  
500 Bayside Drive**

**PROVIDE INPUT ONLINE:** <http://nyrisingmap.org>

For more information, please contact: [info@stormrecovery.ny.gov](mailto:info@stormrecovery.ny.gov)  
[www.stormrecovery.ny.gov/community-reconstruction-program](http://www.stormrecovery.ny.gov/community-reconstruction-program)

#NYRising  
[@NYStormRecovery](https://twitter.com/NYStormRecovery) 

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## Public Outreach – Public Meeting #2

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### Channels

NY Rising Website

Rockaway Point News – other?

Elected Officials?

Public meeting email distribution list

Networks/Social Media/Newsletters

### Approach

- Determine materials and volume
- Provide lists and point people for distribution

# Agenda

1. Project Update 7:00 - 7:30
- 2. Initial Strategies & Projects 7:30 – 8:30**
3. Q&A and Next Steps 8:30 – 8:45

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## Draft Key Strategies

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**Protect the Edge** - Minimize rising water's entry into Breezy communities by strengthening the ocean and bay edges

**Housing** - Rebuild and protect housing, the most important assets within the community

**Infrastructure** - Strengthen power/utilities/communications/water management infrastructure to ensure sustainability and endurance at all times

**Emergency Preparedness** - Pursue measures to strengthen Breezy's ability to contend with and recover from large-scale natural disasters and emergency events

**Economic Viability** - Strengthen and protect commercial areas to protect and sustain economic health and vibrancy

# Draft Strategies & Projects

## PROTECT THE EDGE

Strategy	Short-Term Goal	Long-Term Goal	Potential Initiatives
Minimize rising water's entry into Breezy Point by strengthening the ocean and bay edges	Address any immediate coastal protection risks with respect to both the ocean and bay edges	Strengthen the edge by creating hard and soft edges to maximally protect all of the neighborhoods across Breezy Point	<ul style="list-style-type: none"> <li>Identify vulnerabilities in the bay wall and identify short-term remediation measures where feasible</li> <li>Pursue project to fortify the Cove</li> <li>Determine any gaps in current beachfront plans and determine short- and long-term projects to address them</li> <li>Evaluate opportunities to protect the community's edges along adjacent parklands to west and east</li> </ul>
Rebuild and protect housing, the most important assets within the community	Rebuild and strengthen damaged homes	Protect and make resilient all homes in Breezy Point, including both primary and secondary homes	<ul style="list-style-type: none"> <li>Evaluate scope of existing housing recovery programs and any other rebuilding programs, determine gaps, and create a proposal to address remaining rebuilding and protection needs—for both primary and secondary homes</li> <li>Create program to help all primary and secondary homeowners assess technical housing needs, understand insurance rates and other financial considerations, etc.</li> <li>Create a grant or low-cost loan program to help all people invest in the resiliency of their homes</li> <li>Investigate implications of coastal protection measures on flood rates</li> </ul>

## REBUILD AND PROTECT HOUSING

# Draft Strategies & Projects

## INFRASTRUCTURE AND UTILITIES

Strategy	Short-Term Goal	Long-Term Goal	Potential Initiatives
<p>Strengthen power/utilities/communications/water management infrastructure to ensure sustainability and endurance at all times</p>	<p>Identify and implement short-term improvements to strengthen power/utilities/communications/water management infrastructure</p>	<p>Invest in long-term upgrades to utilities and infrastructure, creating a regional model for sustainability and energy independence</p>	<ul style="list-style-type: none"> <li>• Pursue short- and long-term efforts to create resilient, green, alternative energy sources across Breezy</li> <li>• Evaluate short-term opportunities to improve water drainage or pumping</li> <li>• Improve overall water infrastructure (including sanitary systems) to ensure long-term functionality and sustainability</li> <li>• Evaluate surface areas across the community and create strategies to minimize pooling, maximize drainage, and find opportunities for multi-use sites and materials that support this</li> <li>• Pursue back-up "hard-wired" communications networks to serve as redundant system for cellular towers</li> <li>• Pursue secondary means of access and egress (especially for emergencies); e.g., via rebuilt docks, new roadways via park, etc.</li> </ul>

# Draft Strategies & Projects

## EMERGENCY PREPAREDNESS

Strategy	Short-Term Goal	Long-Term Goal	Potential Initiatives
Pursue measures to strengthen Breezy's ability to contend with and recover from large-scale natural disasters and emergency events	Increase emergency preparedness	Become self-sufficient in emergencies and also increase connections to New York City	<ul style="list-style-type: none"> <li>• Upgrade and strengthen alarm system</li> <li>• Bolster existing emergency services, such as providing ATV/4-wheel drive vehicles, emergency supplies, connecting to FDNY communications system, new dedicated fire hydrant lines, etc.</li> <li>• Create community preparedness plan and training program, with focus on supporting more vulnerable residents</li> <li>• Identify and fortify key locations that can serve as safe, central centers during an emergency, ensuring power with emergency generators</li> <li>• Ensure that vulnerable populations, including seniors, are adequately served</li> </ul>

## ENSURE ECONOMIC SUSTAINABILITY

Strengthen and protect commercial areas to protect and sustain economic health and vibrancy	Rebuild businesses and support commercial recovery and redevelopment	Enable sustainable economic viability across Breezy	<ul style="list-style-type: none"> <li>• Evaluate scope of existing business recovery plans, determine gaps, identify best practices in other small business communities affected by Sandy, and create a proposal rebuild or protect retail assets</li> <li>• Expand low-cost loan programs to rebuild businesses and help make businesses more resilient</li> <li>• Create Rockaway business-to-business program to learn about opportunities, share ideas, and collectively help improve Breezy's small business economy (as well as the Rockaways overall)</li> </ul>
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## Tonight's Discussion

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Review Draft Strategies and Projects

Discuss Various Considerations & Approaches

Discuss Dependencies, Feasibility, Other Challenges

Narrow and Prioritize Strategies

Further Develop List of Near- & Long-Term Projects

Identify Key People to Coordinate With

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## Protect the Edge – Approach Discussion

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### Start with 2 Approaches:

1. Do It Yourself
2. Coordinate with Agencies/Region

### Discuss and Narrow Strategies



AERIAL PHOTO

0 1,000'



DRAFT

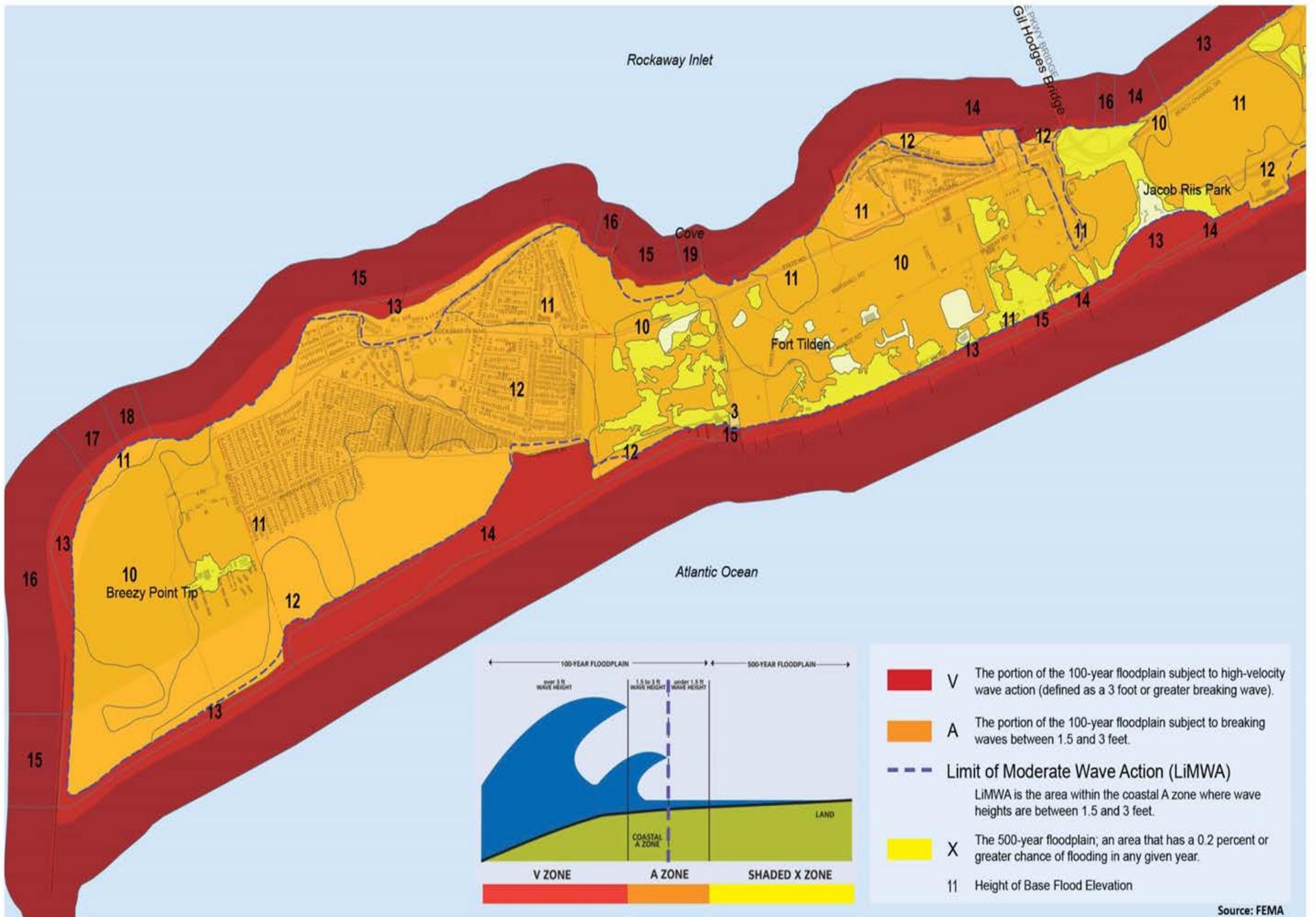


Source: FEMA



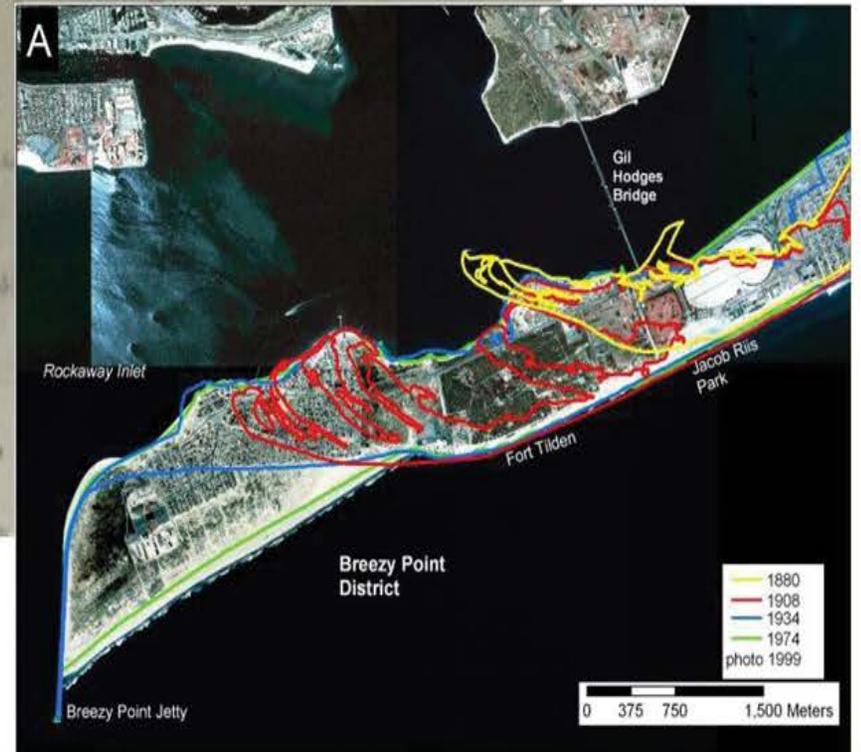
**SANDY INUNDATION AND FEMA BUILDING DAMAGE**







1776



HISTORIC SHORELINE



*Hardened - Bulkhead*

*Hardened - Riprap*

*Natural - Sandy*

*Natural - Sandy*

**Shoreline Condition**

- NATURAL
- HARDENED



**SHORELINE CONDITION**



**Owner Type**

- City
- Other -- Public Authority, State or Federal Ownership
- Private

**NOTE: SUBJECT TO VERIFICATION**



# Do it Yourself Edge Strategy



**NOTE: CONCEPTUAL DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO FURTHER ENGINEERING & TECHNICAL ANALYSIS & VERIFICATION**

- Edge Protection Strategies**
- Reinforced Dune
  - Earthen Levee
  - Groin / Jetty
  - Revetment / Seawall
  - Floodwall
  - Elevated Roadway with Integrated Seawall
  - Pedestrian Access
  - /// Potential Cove Restoration



**NOTE: CONCEPTUAL DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO FURTHER ENGINEERING & TECHNICAL ANALYSIS & VERIFICATION**

# Conceptual Section A: Dune protection



Key Plan

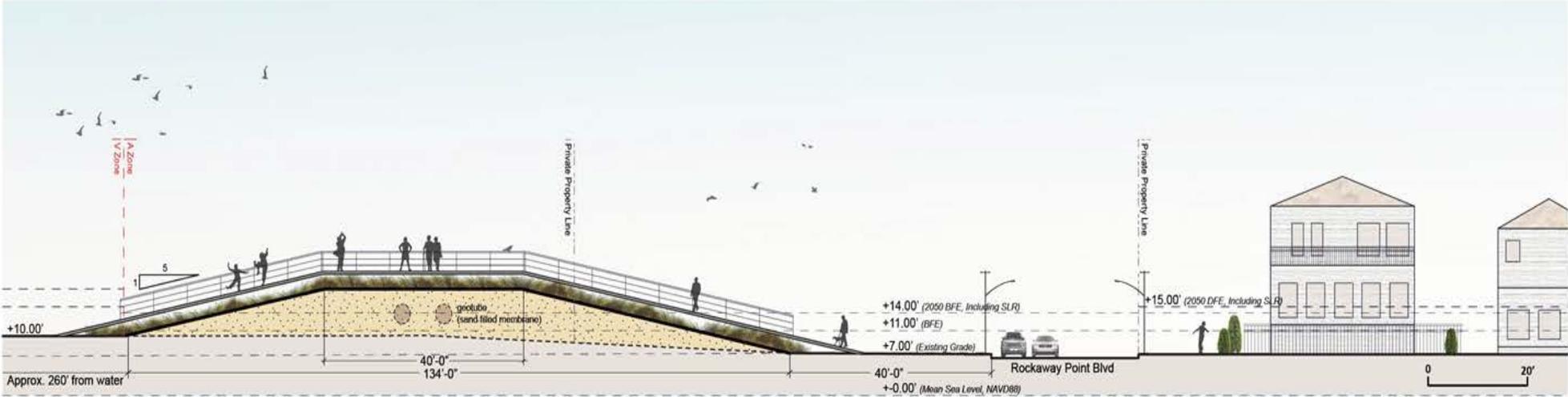


Existing Conditions



**NOTE: CONCEPTUAL DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO FURTHER ENGINEERING & TECHNICAL ANALYSIS & VERIFICATION**

# Conceptual Section A: Dune protection (applicable to Bay and Ocean)



Precedent: Ocean City, NJ



Precedent: Atlantic City, NJ

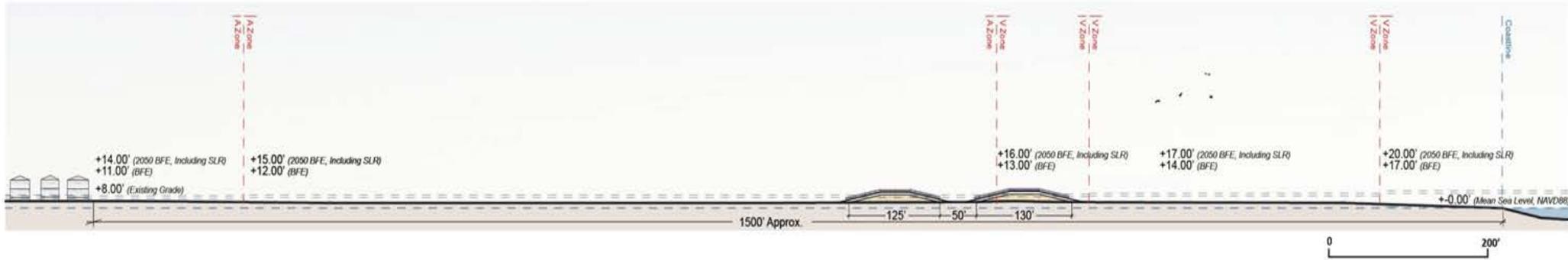


Precedent: Bradley Beach, NJ



# Conceptual Section E: Double Dune protection

**NOTE: CONCEPTUAL DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO FURTHER ENGINEERING & TECHNICAL ANALYSIS & VERIFICATION**



Precedent: Ocean City, NJ

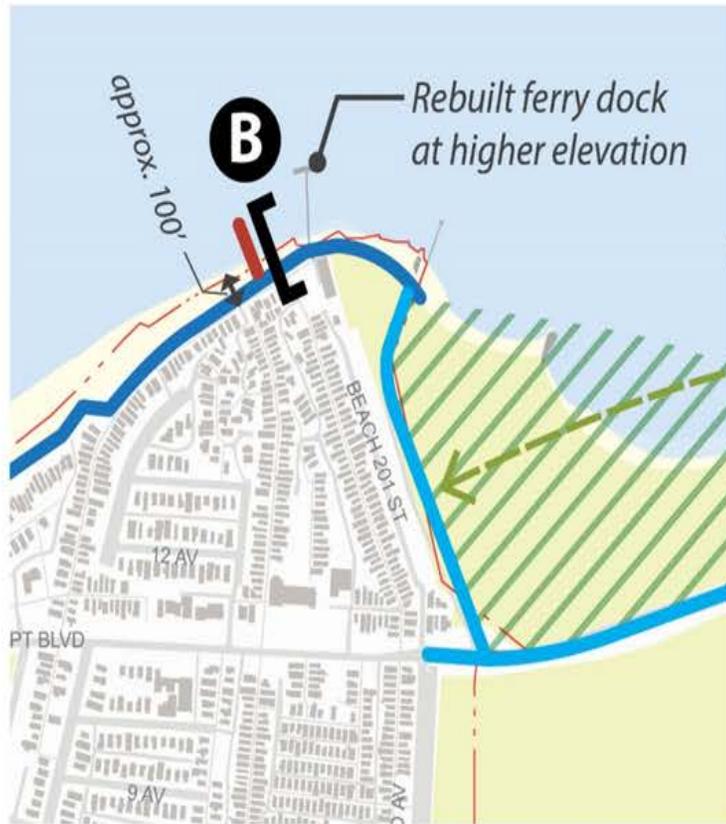


Key Plan



**NOTE:** CONCEPTUAL DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO FURTHER ENGINEERING & TECHNICAL ANALYSIS & VERIFICATION

# Conceptual Section B: Sea Wall



Key Plan

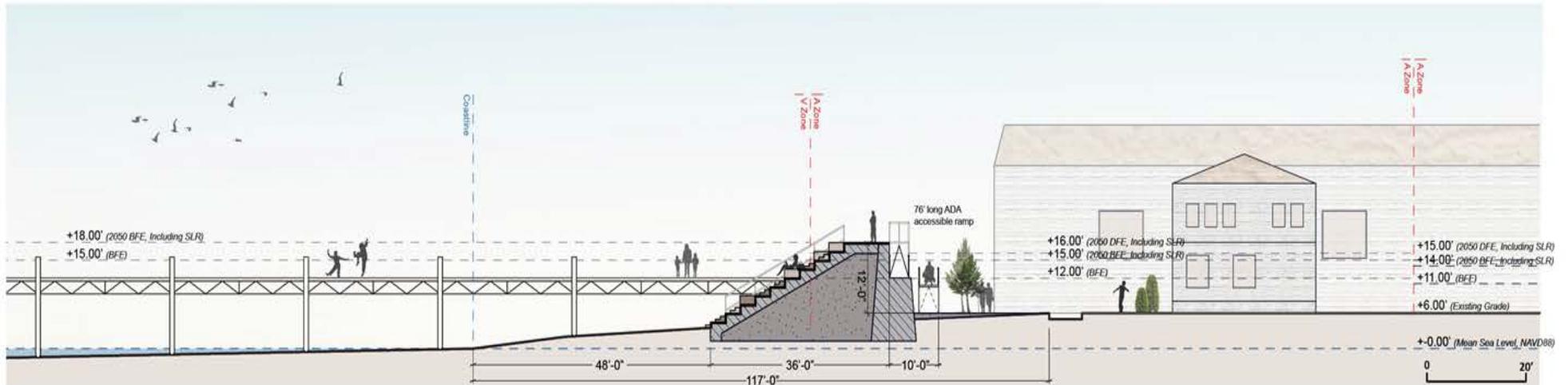


Existing Conditions



**NOTE: CONCEPTUAL DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO FURTHER ENGINEERING & TECHNICAL ANALYSIS & VERIFICATION**

# Conceptual Section B: Sea Wall



Precedent: Rockaways, 106th Street



Precedent: Melbourne, Australia



Precedent: Glenelg Beach, Australia



**NOTE: CONCEPTUAL DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO FURTHER ENGINEERING & TECHNICAL ANALYSIS & VERIFICATION**

# Conceptual Section C: Flood Wall



Key Plan

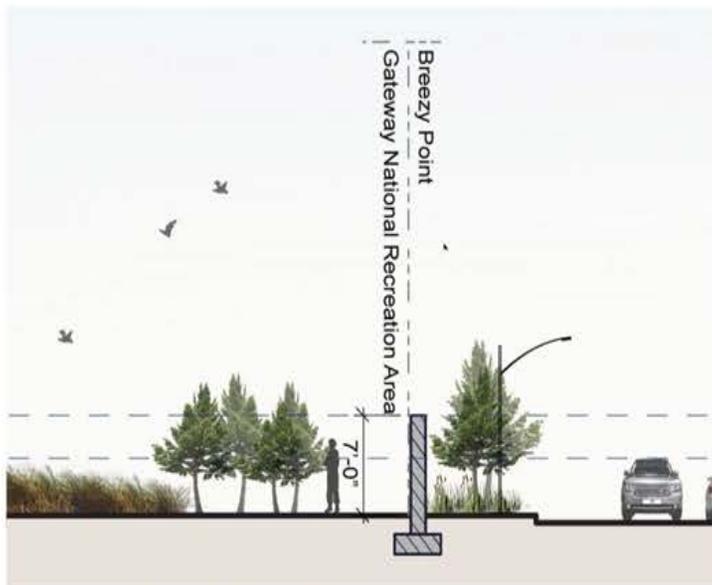
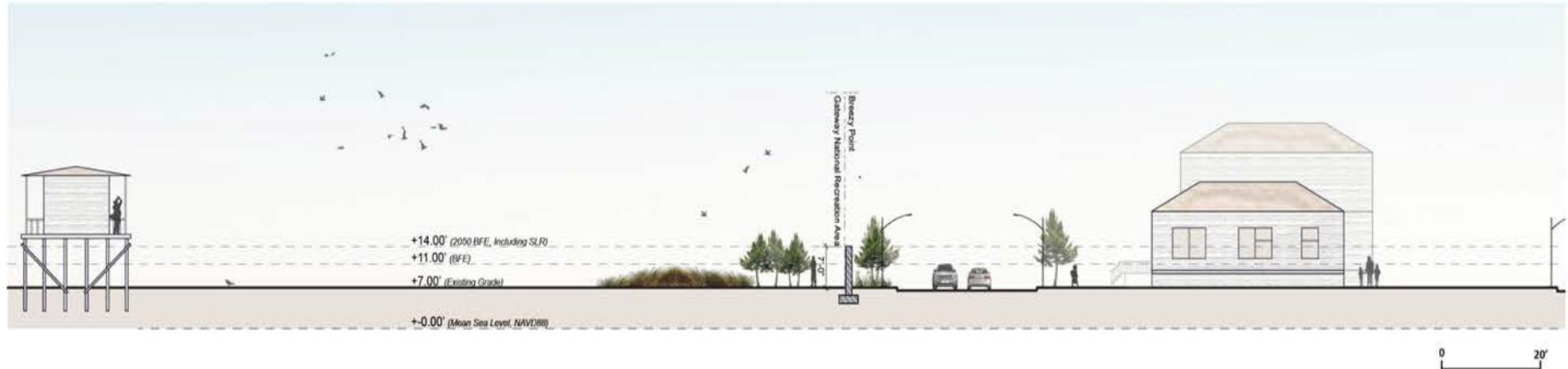


Existing Conditions



**NOTE: CONCEPTUAL DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO FURTHER ENGINEERING & TECHNICAL ANALYSIS & VERIFICATION**

# Conceptual Section C: Flood Wall



Zoom-in: Flood Wall detail



Precedent: Columbus Regional Hospital



Precedent: Great Neck Floodgate



# Coordinated Approach



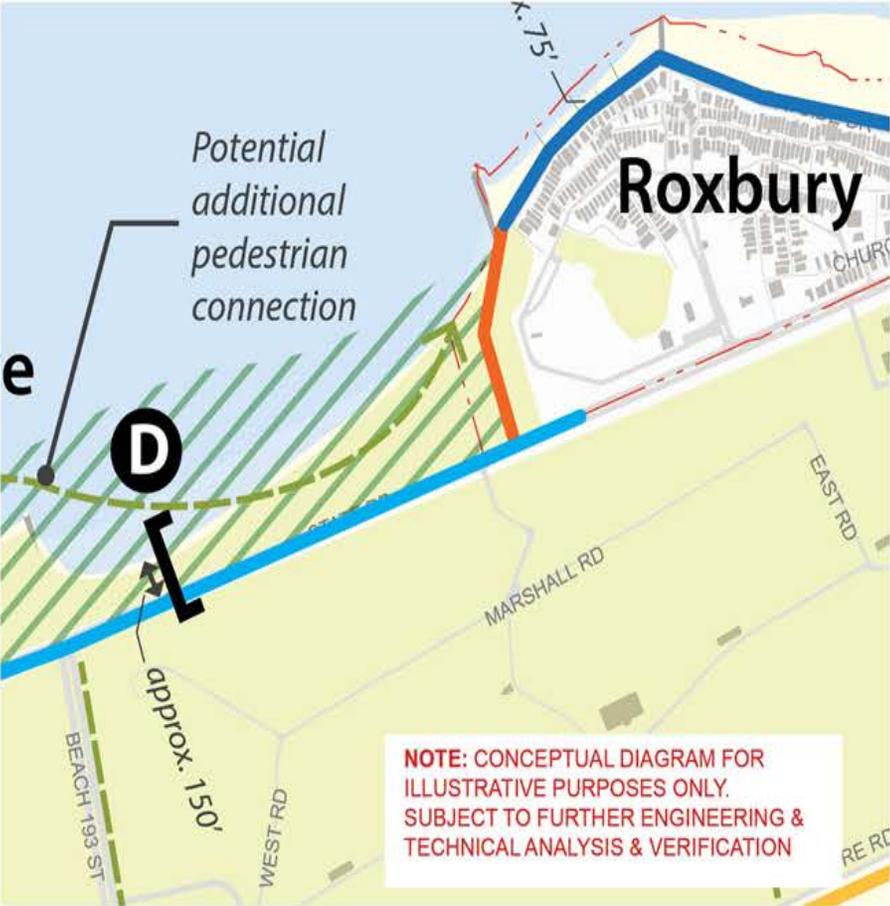
## Edge Protection Strategies

- Reinforced Dune
- Earthen Levee
- Groin / Jetty
- Revetment / Seawall
- Floodwall
- Elevated Roadway with Integrated Seawall
- Pedestrian Access
- / / / Potential Cove Restoration

**NOTE: CONCEPTUAL DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO FURTHER ENGINEERING & TECHNICAL ANALYSIS & VERIFICATION**



# Conceptual Section D: Elevation Roadway (integrated seawall)



Key Plan



Existing Conditions



NOTE: CONCEPTUAL DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO FURTHER ENGINEERING & TECHNICAL ANALYSIS & VERIFICATION

# Conceptual Section D: Elevation Roadway (integrated seawall)



Precedent: Jamaica Bay Cove restoration



Precedent: Scheveningen, Netherlands



Precedent: Landscaped Terrace

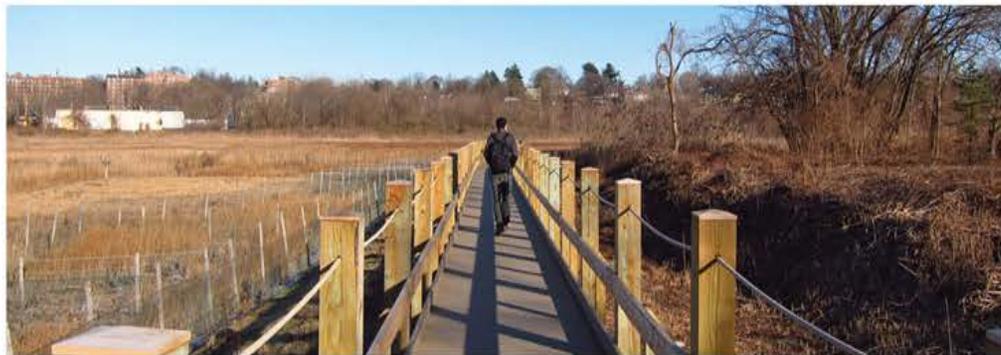


# Cove Restoration Precedents:

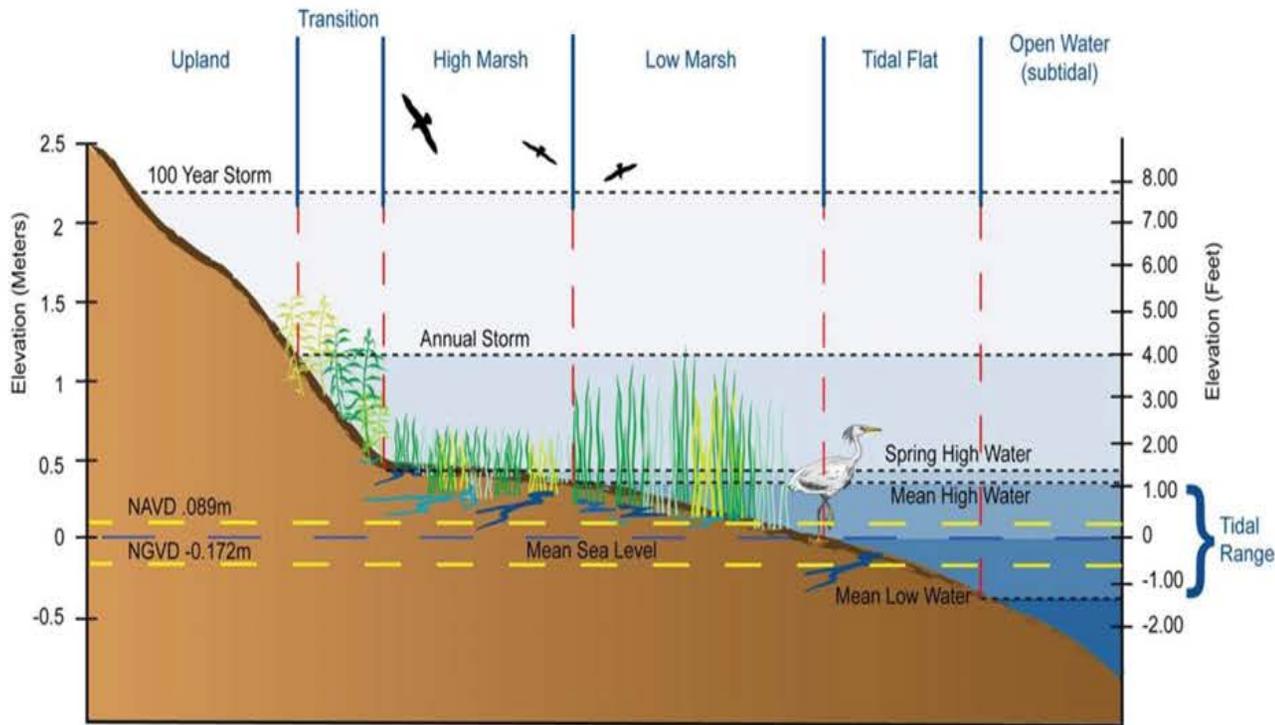
A boardwalk over the wetland would provide a scenic pedestrian connection between Roxbury and Breezy Point as well as opportunities for ecological education



NOTE: SUBJECT TO REVIEW, ANALYSIS AND APPROVALS BY ACOE, DEC, NPS AND OTHER AGENCIES.



# Cove Restoration Precedents



Typical tidal wetland profile

NOTE: SUBJECT TO REVIEW, ANALYSIS AND APPROVALS BY ACOE, DEC, NPS AND OTHER AGENCIES.



Restoration of the tidal wetland or beach restoration can be a community or school event



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## Protect the Edge – Questions for Discussion

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- What are the key priorities?
- Is there anything else to consider?

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## Draft Strategies & Projects – Housing

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- Evaluate scope of existing housing recovery programs and any other rebuilding programs, determine gaps, and create a proposal to address remaining rebuilding and protection needs —for both primary and secondary homes
- Create program to help all primary and secondary homeowners assess technical housing needs, understand insurance rates and other financial considerations, etc.
- Create a grant or low-cost loan program to help all people invest in the resiliency of their homes
- Investigate implications of coastal protection measures on flood rates

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## Housing – Questions for Discussion

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### Scope

- What is the status of current rebuilding and what do you expect will be accounted for in those efforts?
- What do you think the additional needs will be?

### Approach

- What are the key priorities?
- How do you want to contend with elevation?
- Do you want to consider new housing types or development opportunities?

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## Draft Strategies & Projects – Infrastructure

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- Pursue near- and long-term efforts to create resilient, green, alternative energy sources across Breezy
- Evaluate near-term opportunities to improve water drainage or pumping
- Conduct study of overall water infrastructure (including sanitary systems) to ensure long-term functionality and sustainability
- Conduct study to evaluate surface areas across the community and create strategies to minimize pooling, maximize drainage, and find opportunities for multi-use sites and materials that support this
- Implement back-up “hard-wired” communications networks to serve as redundant system for cellular towers
- Pursue secondary means of access and egress (especially for emergencies); e.g., via rebuilt docks, new roadways via park, etc.

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## Infrastructure – Questions for Discussion

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- Are there more specific strategies to consider?
  - e.g. Green/sustainable infrastructure; alternative energy sources
- Are there additional co-benefits we can consider?
- What are the regional approaches we could consider?
- What are the key priorities?
- Can we establish a working group to scope and plan infrastructure projects?

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## Draft Strategies & Projects – Emergency Preparedness

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- Bolster existing emergency services, such as providing ATV/4-wheel drive vehicles, emergency supplies, connecting to FDNY communications system, new dedicated fire hydrant lines, etc.
- Create community preparedness plan and training program, with focus on supporting more vulnerable residents
- Identify and fortify key locations in Breezy and Roxbury that can serve as safe, central centers during an emergency, ensuring power with emergency generators
- Ensure that vulnerable populations, including seniors, are adequately served

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## Emergency Preparedness – Questions for Discussion

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- What, if any, emergency preparedness plans are in place? What would you add or change?
- What, if any, plans exist for vulnerable populations? What would you add or change?
- Are there regional approaches we could consider?
- Can we establish a working group to scope and expand emergency preparedness?

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## Draft Strategies & Projects – Economic Sustainability

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- Evaluate scope of existing business recovery plans, determine gaps, identify best practices in other small business communities affected by Sandy, and create a proposal to address needs to rebuild or protect retail corridors
- Expand low-cost loan programs to rebuild businesses and help make businesses more resilient
- Create Rockaway business-to-business program to learn about opportunities, share ideas, and collectively help to build up the overall small business community and economy of Breezy (as well as the Rockaways overall)

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## Economic Sustainability – Questions for Discussion

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### Scope

- What is the status of current rebuilding and what do you expect will be accounted for in those efforts?
- What do you think the additional needs will be?

### Approach

- What are the key priorities?
- How do you want to contend with elevation?
- What is the best way to organize local businesses around planning and resiliency efforts?
- How can we best coordinate across the peninsula?

# Agenda

1. Project Update 7:00 - 7:30
2. Initial Strategies & Projects 7:30 – 8:30
3. Q&A and Next Steps 8:30 – 8:45

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## Q&A and Next Steps

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### Public Meeting

- Approach
- Next Steps

### General Questions?

### Next Steps

- Committee Meeting early/mid December?



**THANK YOU**





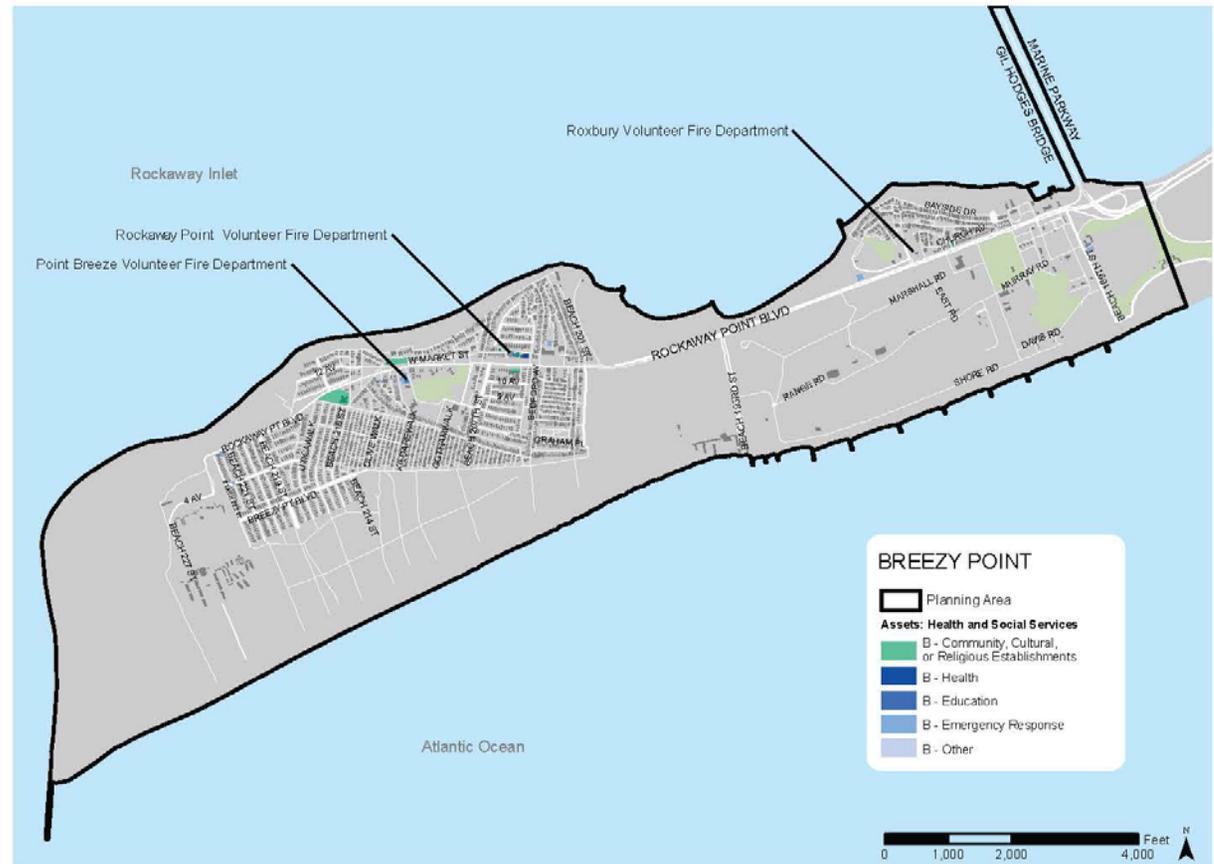
## IV. Community Assets – Health & Social Services

### Health and Social Service Assets

Overall, the Breezy Point communities do not have many health or social services on site, and many residents travel to reach such services. However, unlike most communities across New York, the Breezy Point Cooperative provides basic services in addition to or instead of City-administered services. These include the **Point Breeze Volunteer Fire Department, Rockaway Point Volunteer Fire Department, and Roxbury Volunteer Fire Department**, which were also identified as critical.

Further, houses of worship were identified as important community gathering places and although there was general concern about the lack of health services immediately available on the Peninsula, the existing medical facility was not considered a high-priority asset.

### Health and Social Service Asset Map



Source: NYC Department of City Planning MapPluto, 13v1

## IV. Community Assets – Infrastructure & Recreational

### Natural and Cultural Resource Assets

**The Breezy Point beaches** were identified as critical because they serve a dual role of providing recreational areas and protecting against future storms.

**The Cove** was also deemed critical in that it is an important access point to the community and further erosion to the Cove could compromise Rockaway Point Boulevard—the only road in and out of the community.

Breezy has a number of other recreational and cultural amenities, such as sports fields, a lighthouse, and a 9/11 memorial. These assets may not be considered critical assets in the face of a life-threatening storm; however, the community highly values them and would like to protect them as part of larger community resiliency projects.

### Natural and Cultural Resource Assets



Source: NYC Department of City Planning MapPluto, 13v1

## IV. Needs & Opportunities

### Needs and Opportunities Summary

Recovery Function	Need	Times mentioned
INFRASTRUCTURE	Resilient power and utility	12
	Improved water/sewer systems	8
	Accessibility, roads, circulation	7
	Strengthening edge	20
HOUSING	Physical sustainability	12
	Financial sustainability	7
HEALTH & HUMAN SERVICES	Improved health services	2
COMMUNITY PLANNING & CAPACITY BUILDING	Strengthened emergency services	1
NATURAL & RECREATION	Beach/bay amenities and facilities	7
ECONOMIC DEVELOPMENT	Commercial building protection	7

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## IV. Goals & Vision

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### Goals

Short-Term (2-5 years)	Long-Term (5-10 years)
<ul style="list-style-type: none"><li>• Improve coastal protection</li><li>• Rebuild damaged homes</li><li>• Strengthen emergency preparedness</li><li>• Support commercial recovery and redevelopment</li><li>• Improve short-term water management and drainage</li><li>• Protect and meet the needs of seniors and other vulnerable populations</li></ul>	<ul style="list-style-type: none"><li>• Strengthen the edge (ocean and bay)</li><li>• Protect all homes across the communities</li><li>• Create sustainable drainage/water management systems for the long-term</li><li>• Strengthen overall infrastructure and surface area</li><li>• Become self-sufficient in emergencies</li><li>• Leverage green technologies and systems in reconstruction</li></ul>

### Vision Statement

Through the NY Rising process, Breezy Point intends to strengthen, protect, and improve the overall readiness and capacity of its communities. Breezy Point will be able to prepare for, respond to, and quickly recover from emergency events and natural disasters. With the use of modern and green technologies, our community will be able to build more secure structures and barriers to foster a better future for all our residents, no matter what age, background, or financial situation. Breezy Point intends to meet our needs to maintain self-sufficiency for an extended period of time.