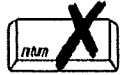




Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Emergency Certification Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. Emergency Information

Important:
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Issuance From: Salisbury Conservation Commission
Issuing Authority

1. Site Location: Salisbury Beach Public Access 8, 9, and 10

2 Reason for Emergency:
Erosion has compromised the stability of beach public access structures creating an imminent threat to public safety. See attached.

3. Applicant to perform work: Massachusetts Department of Conservation and Recreation

4. Public agency to perform work or public agency ordering the work to be performed:
Massachusetts Department of Conservation and Recreation

| | | |
|------------------------|------------------|------------------|
| 5. Date of Site Visit: | Start Date: | End Date*: |
| <u>5/17/2023</u> | <u>5/19/2023</u> | <u>6/18/2023</u> |

* no later than 30 days from start date or 60 days in the case of an Immediate Response Action approved by DEP to address an oil/hazardous material release.

6. Work to be allowed*:
See attached.


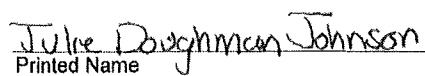
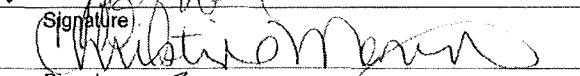
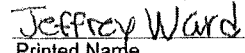
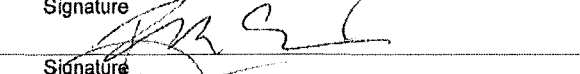
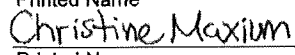



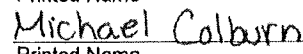
* May not include work beyond that necessary to abate the emergency.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Emergency Certification Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Signatures

Certified to be an Emergency by this Issuing Authority.

| | |
|---|--|
| Signatures:  Signature |  Printed Name |
|  Signature |  Printed Name |
|  Signature |  Printed Name |
|  Signature |  Printed Name |
|  Signature |  Printed Name |
| Signature | Printed Name |
| Signature | Printed Name |
| Signature | Printed Name |

A copy of this form must be provided to the appropriate DEP Regional Office.

C. General Conditions

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Emergency Certification or subject to enforcement action.
2. This Emergency Certification does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of property rights.
3. This Emergency Certification does not relieve the applicant or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. Any work conducted beyond that described above, and any work conducted beyond that necessary to abate the emergency, shall require the filing of a Notice of Intent.
5. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Emergency Certification at reasonable hours to evaluate compliance with this Certification, and may require the submittal of any data deemed necessary by the Conservation Commission or the Department for that evaluation.
6. This Emergency Certification shall apply to any contractor or any other person performing work authorized under this Certification.
7. No work may be authorized beyond 30 days from the date of this certification without written approval of the Department.



Massachusetts Department of Environmental Protection
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WPA Emergency Certification Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

D. Special Conditions

1. All work shall occur landward of MHW.
 2. NHESP approval of work is required.
 3. Sand imported to the site shall be compatible to the site and meet the gradation requirements in the Salisbury Beach Management Plan (2008).
 4. Mass DCR shall not allow the temporary 4' x 4' landing at access 9 to become an obstruction to dune movement or storm debris.
-

E. Appeals

The Department may, on its own motion or at the request of any person, review: an emergency certification issued by a conservation commission and any work permitted thereunder; a denial by a conservation commission of a request for emergency certification; or the failure by a conservation commission to act within 24 hours of a request for emergency certification. Such review shall not operate to stay the work permitted by the emergency certification unless the Department specifically so orders. The Department's review shall be conducted within seven days of: issuance by a conservation commission of the emergency certification; denial by a conservation commission of the emergency certification; or failure by a conservation commission to act within 24 hours of a request for emergency certification. If certification was improperly granted, or the work allowed thereunder is excessive or not required to protect the health and safety of citizens of the Commonwealth, the Department may revoke the emergency certification, condition the work permitted thereunder, or take such other action as it deems appropriate.



Date: May 18, 2023
To: Salisbury Conservation Commission
CO Adriane Marchland, Salisbury Conservation Agent:
From: Mark Georgian, DCR Coastal and Waterways Engineer
RE: **Salisbury Beach Access No. 8, 9, and 10
Emergency Certification Request**

This document includes a description of work needed to address unsafe conditions at Salisbury Beach Access No. 8, 9, and 10. A drawing showing the proposed work is attached separately.

Thank you for your feedback during the development of this plan. If you have any questions or comments, please do not hesitate to contact:

Mark Georgian, DCR Coastal and Waterways Engineer
Phone: 857.488.6900
Email: mark.n.georgian@mass.gov

Project Summary:

The Massachusetts Department of Conservation and Recreation (DCR) is requesting an Emergency Certification to address safety issues at Salisbury Beach Access No. 8, 9, and 10. These three (3) consecutive beach access structures were severely damaged by winter storms and erosion (see photograph below). The structures are no longer safe and are currently closed; however, they will pose a public safety issue until the compromised sections are addressed.

The structures at Beach Access No. 8, 9, and 10 are critical for evacuating the beach and emergency access. The closures impact consecutive structures, magnifying the associated risks. Additionally, without the structures in place, the public will be more likely to seek alternative routes through sensitive dune habitat or to attempt to use unsafe structures. These factors necessitate timely repairs to restore functionality as soon as practicable.

All three access points will be addressed in this request. Access No. 9 and 10 will be restored by a combination of repairs, limited modifications, and sand placement. These measures are anticipated to provide access through the summer. Damage to Access No. 8 was too severe to be repaired but left in place, the structure would present an attractive hazard. In the very near term, demolishing and removing the structure is the most feasible option. A separate Emergency Certification request will be submitted to address restoring access in the future. Note, shorebird monitoring in the area of the proposed work is ongoing and will continue while there is active work at the Site.

The sand placement and other modifications described below are necessary for the safety of citizens of the commonwealth. The approaches described in this request were developed in coordination with the Town of Salisbury's environmental scientist, DCR's engineering consultant (Stantec), and DCR staff. Feedback from Natural Heritage, USACE, Mass DEP, and Salisbury's Conservation Agent was sought in the development this request.

COMMONWEALTH OF MASSACHUSETTS · EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS

Department of Conservation and Recreation
251 Causeway Street, Suite 600
Boston MA 02114-2119
617-626-1250 | 617-626-1351 Fax
www.mass.gov/dcr

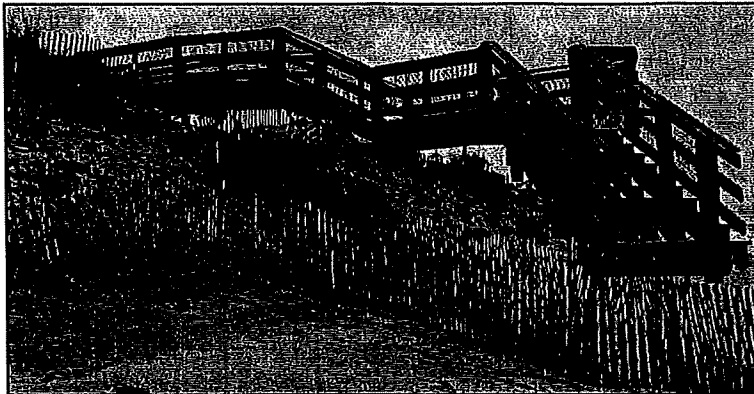


Maura T. Healey
Governor

Kimberley Driscoll
Lt. Governor

Rebecca L. Tepper, Secretary
Executive Office of Energy & Environmental Affairs

Brian Arrigo, Commissioner
Department of Conservation & Recreation



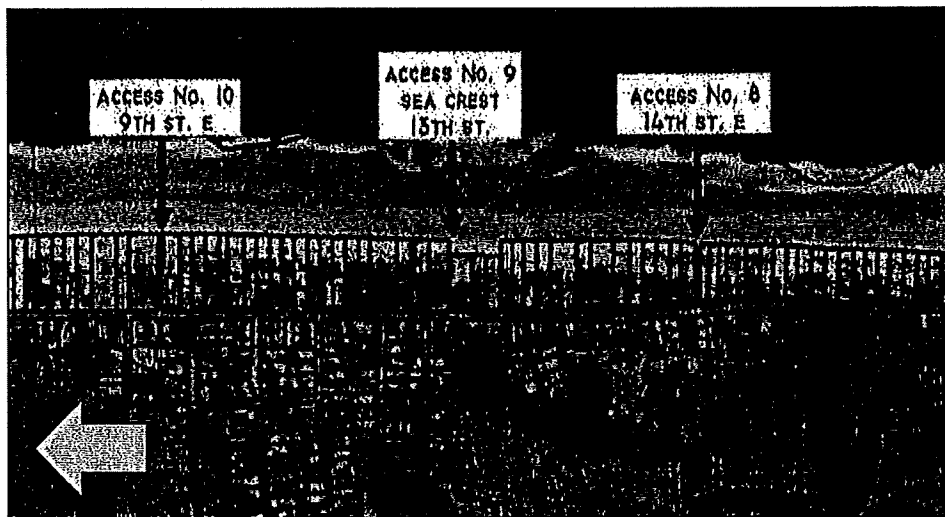
Photograph of Beach Access-8 taken 2/2/2023

A description of the structures and proposed work can be found below. A tabular summary is located at the end of this document.

Location:

This request includes three structures located in Beach Management Area – 2 of the *Salisbury Beach State Reservation Beach Operations and Maintenance Plan* (OMP) dated May 21, 2020:

- Access No. 8: 14th St. E
- Access No. 9: Sea Crest – 13th St.
- Access No. 10: 9th St. E



Location of proposed work from OMP (north arrow is approximate).

Description of Work

Access No. 8: Demolition

The damaged structure is primarily constructed of wood, supported by helical piles, and connects the dune to the beach. The DCR is seeking to dismantle and remove the portion of the damaged structures extending past the dune scarp. Deteriorated steel fence posts along the toe of the dune will be removed to further reduce the chance of injury from cuts or impalement. The demolished structure will be moved offsite to a dumpster located at Salisbury Beach headquarters. Following the demolition, timbers will be fastened to the end of the walkway blocking access. The dune access will also be secured using beach fencing and signage.

The proposed work is anticipated to require hand tools and equipment authorized for use under *Table 1: Existing Beach Equipment* in the most recent OMP including a front-end loader and dump truck. A tracked mini excavator may be needed to remove helical piles. The equipment will access the Site using established maintenance routs and will be operated from the beach to minimize impacts to the dunes. Motorized equipment will be removed from the beach at the end of each day.

Access No. 9: Repairs

Damage from storms combined with the receding dune and beach have left the structure unsuitable for use. The dune has eroded back leaving a gap between the dune scarp and the structure's steps. Erosion on the beach has left the lowest step several feet above grade.

Carpentry such as the installation of cross bracing, extension of existing posts, and fastener replacement will be completed under the most recent OMP for Salisbury Beach State Reservation, but additional measures are needed for the structure to be suitable for use.

Access connecting the dune to the structure will be provided by a 5'x12' timber platform placed on grade to span the eroded and compromised areas. The platform will rest on the flexible timber dune mat and will be fastened to the existing deck stairs. To manage the additional loading, two (2) new helical piles will be installed to the landward side of the stairs. To add additional support for the structure, the DCR's engineer (Stantec) recommended another two (2) piles be installed at an intermediate bent farther seaward as shown in the attached drawing. The lower stairs will be reconnected to the existing grade on the beach with a timber stair extension supported by timber posts. The additional steps result in a larger change in elevation, necessitating the addition of a 4'x4' landing. Up to four (4) stairs will be added to the landing. To minimize impacts to lateral access, the stairs will be installed on the landward side of the platform.

Loss of sand from erosion contributed to the reduced stability of the structure. The dune scarp has migrated landward resulting in a growing gap between the dune and the structure. The scarp's vertical face is expected to collapse over time, threatening access and safety. The sand lost from under the structure reduced the efficacy of the helical piles. Placing sand against the eroded face of the dune and under the structure will address both issues.

Carpentry work related to the structures will be completed using hand tools. The contractor will utilize a 900 series loader (18-24 tons) and end dump truck (21-31 tons) to move and transport sand from Access No. 7 and/or 11. Smaller equipment, such as skid steers or mini excavators in the 7-14 ton range, will be utilized to place sand around structure. The smaller equipment will be

used to advance the four (4) additional helical anchors. Motorized equipment will be removed from the beach at the end of each day.

Access No. 10: Repairs

Damage from storms combined with aging hardware and the receding dune has rendered this structure unsuitable for use. Damage from fire further compromised one section.

Many of the issues can be addressed through maintenance including the installation of cross bracing, extension of existing posts, and fastener replacement. This work will be completed under the most recent OMP for Salisbury Beach State Reservation; however, additional measures are needed for the structure to be relied on for the season.

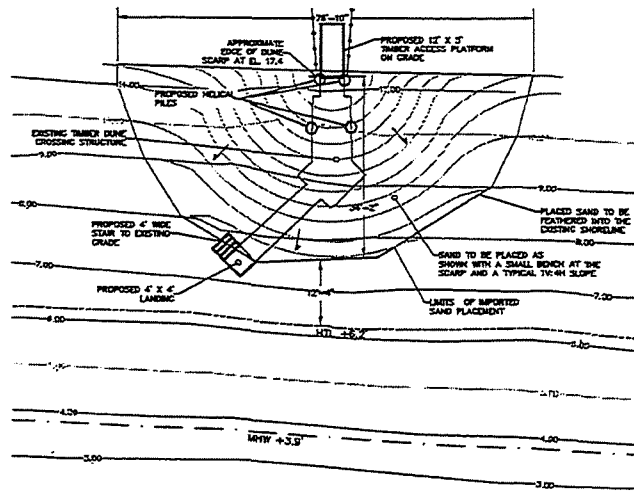
Access connecting the dune to the structure will be provided by a 5'x12' timber platform placed on grade to span the eroded and compromised areas. The platform will rest on the flexible timber dune mat and will be fastened to the existing deck structure.

Loss of sand from erosion contributed to the reduced stability of the structure. The dune scarp has migrated landward resulting in a growing gap between the dune and the structure. The scarp's vertical face is expected to collapse over time, threatening access and safety. The sand lost from under the structure reduced the efficacy of the helical piles. Placing sand against the eroded face of the dune and under the structure will address both issues.

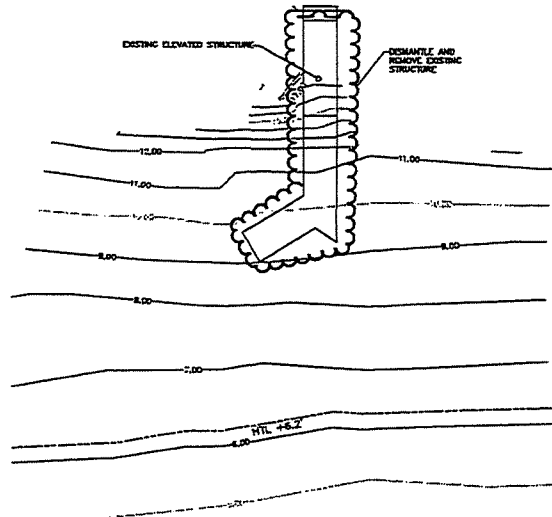
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Tabular Summary of Proposed Work Covered in the Emergency Certification Request

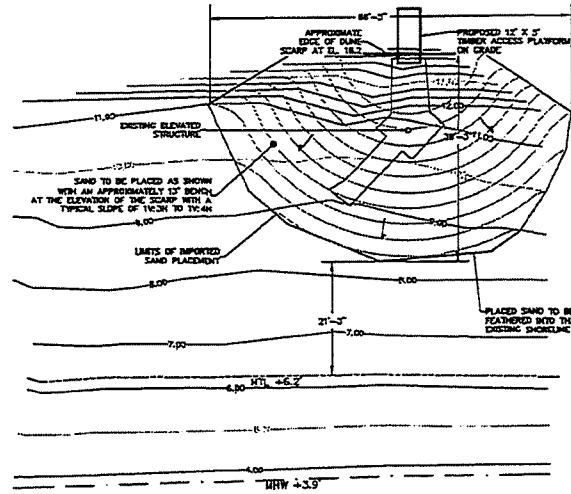
| Access | Description of Work |
|---------------|---|
| Access No. 8 | Demolition and removal of existing structure |
| Access No. 8 | Remove rusted fence posts |
| Access No. 8 | Close existing structure |
| Access No. 9 | Install 12'x5' timber access pad at upper structure access |
| Access No. 9 | Construct 4'x4' stair landing at lower structure access |
| Access No. 9 | Construct 3 to 4 stair risers to existing grade at lower structure access |
| Access No. 9 | Install 4 helical piles |
| Access No. 9 | Place sand as shown in drawings |
| Access No. 10 | Install 12'x5' timber access pad at upper structure access |
| Access No. 10 | Place sand as shown in drawings |



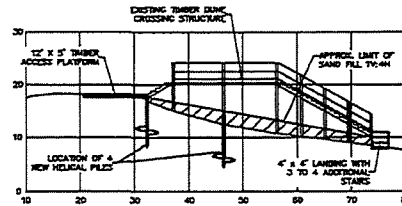
BEACH ACCESS 9 - PLAN VIEW
SCALE: 1"=10'



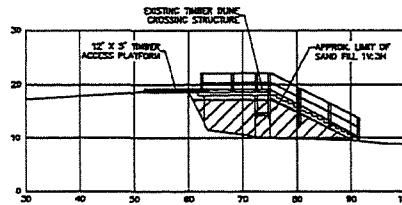
BEACH ACCESS 8 - PLAN VIEW
SCALE: 1"=10'



BEACH ACCESS 10 - PLAN VIEW
SCALE: 1"=10'



BEACH ACCESS 9 - SECTION 9
SCALE: 1"=20'

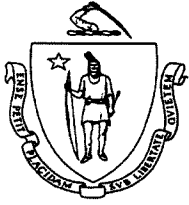


BEACH ACCESS 10 - SECTION 10
SCALE: 1"=20'

PLAN NOTES:

1. EXISTING STRUCTURE LAYOUT ADAPTED FROM PLANS BY GZA GEOENVIRONMENTAL, INC DATED JUNE 2018
2. ALL ELEVATIONS REFERENCE NAVD88 UNLESS OTHERWISE NOTED.
3. EXISTING SURFACE BASED ON FIELD MEASUREMENTS TAKEN BY SALISBURY'S ENVIRONMENTAL SCIENTIST ON 5/11/2023. MEASUREMENTS WERE TAKEN USING AN RTK GPS SYSTEM.
4. HIGH TIDE LINE PROVIDED BY SALISBURY'S ENVIRONMENTAL SCIENTIST BASED ON RECENT LOCAL PROJECT SUBMISSIONS.
5. MHW AND MLW BASED ON PREVIOUS PLANS AND VERIFIED USING VDATUM VERSION 5.
6. MLW AT ELEVATIONS -4.8' (NAVD88)

| | | |
|--|--------------------|--------------------|
| BA #8, 9 & 10 BOARDWALK REPAIR PLAN & PROFILE VIEW | | |
| BOARDWALK REPAIR AT SALISBURY BEACH STATE RESERVATION STATE RESERVATION RD, SALISBURY MA | | |
| DEPARTMENT OF CONSERVATION AND RECREATION MASSACHUSETTS | | |
| SCALE: VARIES | DATE: 5/18/23 | |
| JOB NO./FILE NAME: SALBPLANS.DWG | DESIGNED BY: EJ | PLAN NO. 1 of 1 |
| | DRAWN BY: EG | |
| | CHECKED BY: MG | |



The Commonwealth of Massachusetts
Division of Occupational Licensure
Office of Public Safety and Inspections
 1000 Washington Street, Suite 710, Boston, MA 02118
Building Division - 780CMR
Building Permit

Permit No: DEM24-0005
Issued: 2024-01-31
Type: Demolition
Use:
Construction Type: VA

Property Address:
 Salsbury Beach
 Access Points 9 & 10
 1 Beach Road
 Salisbury, MA 01952

Owner or Lessee of Building or Structure:
 DCR

General Contractor:
 T Ford Company, Inc.

THIS CARD SHALL BE DISPLAYED IN A CONSPICUOUS PLACE ON THE PREMISES

Work Description: Demolition of Access 9 and 10 to Salisbury Beach that were destroyed in recent historic storms. Emergency order received from Salisbury Fire Chief and emergency order from Salisbury Conservation Committee JB 2-6-24.

| Plumbing | Inspector | Electrical | Inspector | Sheet Metal | Inspector | Fire | Inspector | Building | Inspector |
|----------|-----------|------------|-----------|-------------|-----------|-------|-----------|----------|-----------|
| Date: | ROUGH | Date: | ROUGH | Date: | ROUGH | Date: | ROUGH | Date: | ROUGH |
| Date: | FINAL | Date: | FINAL | Date: | FINAL | Date: | FINAL | Date: | FINAL |

John Bennett
John Bennett

State Building Inspector

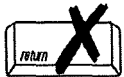




Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Emergency Certification Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. Emergency Information

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Issuance From: Salisbury Conservation Commission
 Issuing Authority

1. Site Location: Salisbury Beach Public Access 8, 9, and 10

2. Reason for Emergency:
Erosion has compromised the stability of beach public access structures creating an imminent threat to public safety. See attached.

3. Applicant to perform work: Massachusetts Department of Conservation and Recreation

4. Public agency to perform work or public agency ordering the work to be performed:
Massachusetts Department of Conservation and Recreation

| | | |
|------------------------|------------------|------------------|
| 5. Date of Site Visit: | Start Date: | End Date*: |
| <u>5/17/2023</u> | <u>5/19/2023</u> | <u>6/18/2023</u> |

* no later than 30 days from start date or 60 days in the case of an Immediate Response Action approved by DEP to address an oil/hazardous material release.

6. Work to be allowed*:
See attached.

* May not include work beyond that necessary to abate the emergency.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Emergency Certification Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Signatures

Certified to be an Emergency by this Issuing Authority.

Signatures:

[Handwritten Signature]
Signature

Adriane Marchand, Agent
Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

A copy of this form must be provided to the appropriate DEP Regional Office.

C. General Conditions

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Emergency Certification or subject to enforcement action.
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3. This Emergency Certification does not relieve the applicant or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. Any work conducted beyond that described above, and any work conducted beyond that necessary to abate the emergency, shall require the filing of a Notice of Intent.
5. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Emergency Certification at reasonable hours to evaluate compliance with this Certification, and may require the submittal of any data deemed necessary by the Conservation Commission or the Department for that evaluation.
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D. Special Conditions

1. All work shall occur landward of MHW.
 2. NHESP approval of work is required.
 3. Sand imported to the site shall be compatible to the site and meet the gradation requirements in the Salisbury Beach Management Plan (2008).
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-

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Massachusetts



Date: May 18, 2023
 To: Salisbury Conservation Commission
 CO Adriane Marchland, Salisbury Conservation Agent:
 From: Mark Georgian, DCR Coastal and Waterways Engineer
 RE: **Salisbury Beach Access No. 8, 9, and 10
 Emergency Certification Request**

This document includes a description of work needed to address unsafe conditions at Salisbury Beach Access No. 8, 9, and 10. A drawing showing the proposed work is attached separately.

Thank you for your feedback during the development of this plan. If you have any questions or comments, please do not hesitate to contact:

Mark Georgian, DCR Coastal and Waterways Engineer
 Phone: 857.488.6900
 Email: mark.n.georgian@mass.gov

Project Summary:

The Massachusetts Department of Conservation and Recreation (DCR) is requesting an Emergency Certification to address safety issues at Salisbury Beach Access No. 8, 9, and 10. These three (3) consecutive beach access structures were severely damaged by winter storms and erosion (see photograph below). The structures are no longer safe and are currently closed; however, they will pose a public safety issue until the compromised sections are addressed.

The structures at Beach Access No. 8, 9, and 10 are critical for evacuating the beach and emergency access. The closures impact consecutive structures, magnifying the associated risks. Additionally, without the structures in place, the public will be more likely to seek alternative routes through sensitive dune habitat or to attempt to use unsafe structures. These factors necessitate timely repairs to restore functionality as soon as practicable.

All three access points will be addressed in this request. Access No. 9 and 10 will be restored by a combination of repairs, limited modifications, and sand placement. These measures are anticipated to provide access through the summer. Damage to Access No. 8 was too severe to be repaired but left in place, the structure would present an attractive hazard. In the very near term, demolishing and removing the structure is the most feasible option. A separate Emergency Certification request will be submitted to address restoring access in the future. Note, shorebird monitoring in the area of the proposed work is ongoing and will continue while there is active work at the Site.

The sand placement and other modifications described below are necessary for the safety of citizens of the commonwealth. The approaches described in this request were developed in coordination with the Town of Salisbury’s environmental scientist, DCR’s engineering consultant (Stantec), and DCR staff. Feedback from Natural Heritage, USACE, Mass DEP, and Salisbury’s Conservation Agent was sought in the development this request.

COMMONWEALTH OF MASSACHUSETTS · EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS

Department of Conservation and Recreation
 251 Causeway Street, Suite 600
 Boston MA 02114-2119
 617-626-1250 | 617-626-1351 Fax
 www.mass.gov/dcr

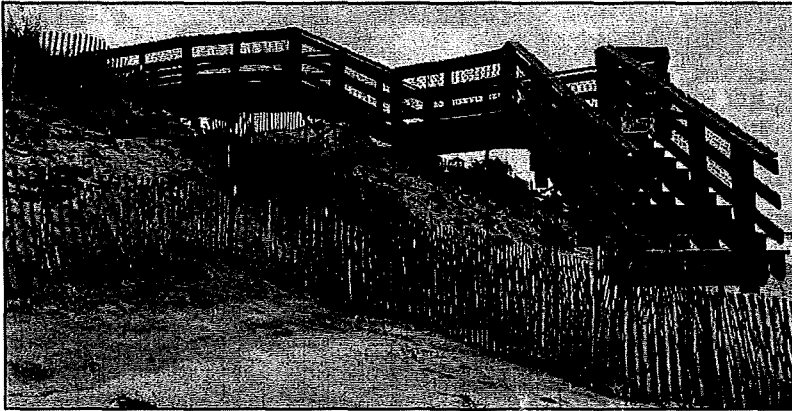


Maura T. Healey
 Governor

Kimberley Driscoll
 Lt. Governor

Rebecca L. Tepper, Secretary
 Executive Office of Energy & Environmental Affairs

Brian Arrigo, Commissioner
 Department of Conservation & Recreation



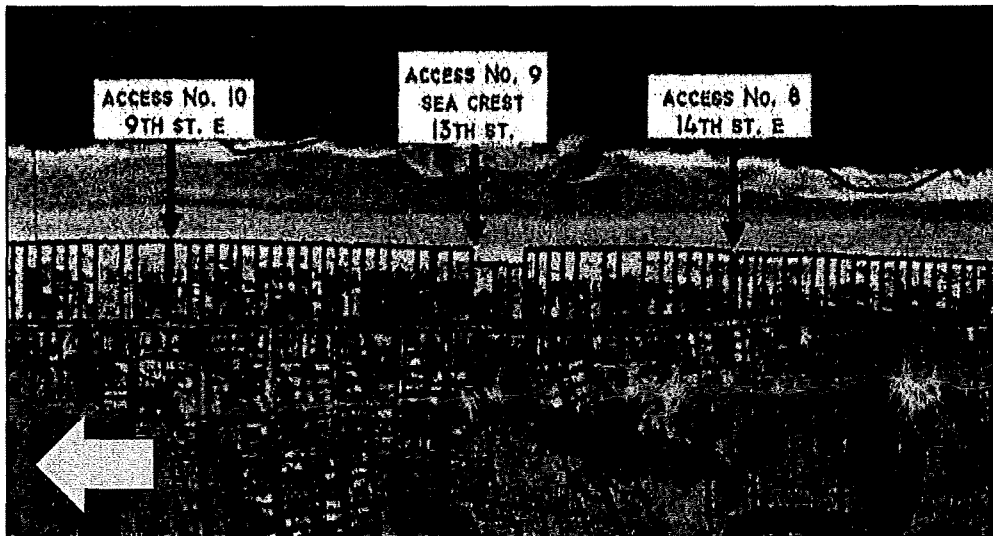
Photograph of Beach Access-8 taken 2/2/2023

A description of the structures and proposed work can be found below. A tabular summary is located at the end of this document.

Location:

This request includes three structures located in Beach Management Area – 2 of the *Salisbury Beach State Reservation Beach Operations and Maintenance Plan* (OMP) dated May 21, 2020:

- Access No. 8: 14th St. E
- Access No. 9: Sea Crest – 13th St.
- Access No. 10: 9th St. E



Location of proposed work from OMP (north arrow is approximate).

Description of Work

Access No. 8: Demolition

The damaged structure is primarily constructed of wood, supported by helical piles, and connects the dune to the beach. The DCR is seeking to dismantle and remove the portion of the damaged structures extending past the dune scarp. Deteriorated steel fence posts along the toe of the dune will be removed to further reduce the chance of injury from cuts or impalement. The demolished structure will be moved offsite to a dumpster located at Salisbury Beach headquarters. Following the demolition, timbers will be fastened to the end of the walkway blocking access. The dune access will also be secured using beach fencing and signage.

The proposed work is anticipated to require hand tools and equipment authorized for use under *Table 1: Existing Beach Equipment* in the most recent OMP including a front-end loader and dump truck. A tracked mini excavator may be needed to remove helical piles. The equipment will access the Site using established maintenance routs and will be operated from the beach to minimize impacts to the dunes. Motorized equipment will be removed from the beach at the end of each day.

Access No. 9: Repairs

Damage from storms combined with the receding dune and beach have left the structure unsuitable for use. The dune has eroded back leaving a gap between the dune scarp and the structure's steps. Erosion on the beach has left the lowest step several feet above grade.

Carpentry such as the installation of cross bracing, extension of existing posts, and fastener replacement will be completed under the most recent OMP for Salisbury Beach State Reservation, but additional measures are needed for the structure to be suitable for use.

Access connecting the dune to the structure will be provided by a 5'x12' timber platform placed on grade to span the eroded and compromised areas. The platform will rest on the flexible timber dune mat and will be fastened to the existing deck stairs. To manage the additional loading, two (2) new helical piles will be installed to the landward side of the stairs. To add additional support for the structure, the DCR's engineer (Stantec) recommended another two (2) piles be installed at an intermediate bent farther seaward as shown in the attached drawing. The lower stairs will be reconnected to the existing grade on the beach with a timber stair extension supported by timber posts. The additional steps result in a larger change in elevation, necessitating the addition of a 4'x4' landing. Up to four (4) stairs will be added to the landing. To minimize impacts to lateral access, the stairs will be installed on the landward side of the platform.

Loss of sand from erosion contributed to the reduced stability of the structure. The dune scarp has migrated landward resulting in a growing gap between the dune and the structure. The scarp's vertical face is expected to collapse over time, threatening access and safety. The sand lost from under the structure reduced the efficacy of the helical piles. Placing sand against the eroded face of the dune and under the structure will address both issues.

Carpentry work related to the structures will be completed using hand tools. The contractor will utilize a 900 series loader (18-24 tons) and end dump truck (21-31 tons) to move and transport sand from Access No. 7 and/or 11. Smaller equipment, such as skid steers or mini excavators in the 7-14 ton range, will be utilized to place sand around structure. The smaller equipment will be

used to advance the four (4) additional helical anchors. Motorized equipment will be removed from the beach at the end of each day.

Access No. 10: Repairs

Damage from storms combined with aging hardware and the receding dune has rendered this structure unsuitable for use. Damage from fire further compromised one section.

Many of the issues can be addressed through maintenance including the installation of cross bracing, extension of existing posts, and fastener replacement. This work will be completed under the most recent OMP for Salisbury Beach State Reservation; however, additional measures are needed for the structure to be relied on for the season.

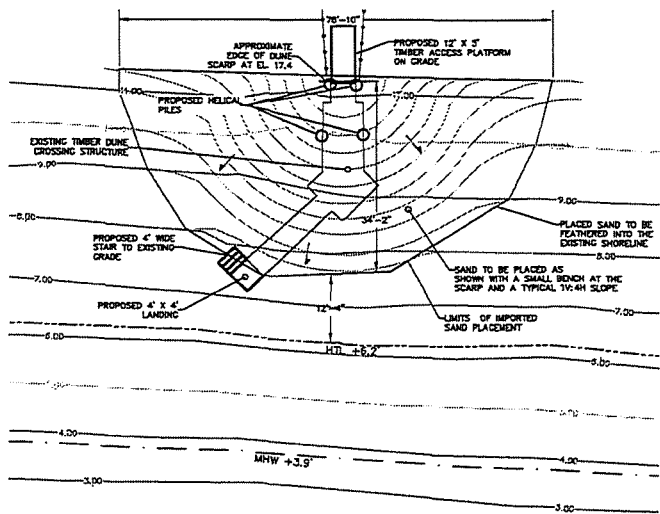
Access connecting the dune to the structure will be provided by a 5'x12' timber platform placed on grade to span the eroded and compromised areas. The platform will rest on the flexible timber dune mat and will be fastened to the existing deck structure.

Loss of sand from erosion contributed to the reduced stability of the structure. The dune scarp has migrated landward resulting in a growing gap between the dune and the structure. The scarp's vertical face is expected to collapse over time, threatening access and safety. The sand lost from under the structure reduced the efficacy of the helical piles. Placing sand against the eroded face of the dune and under the structure will address both issues.

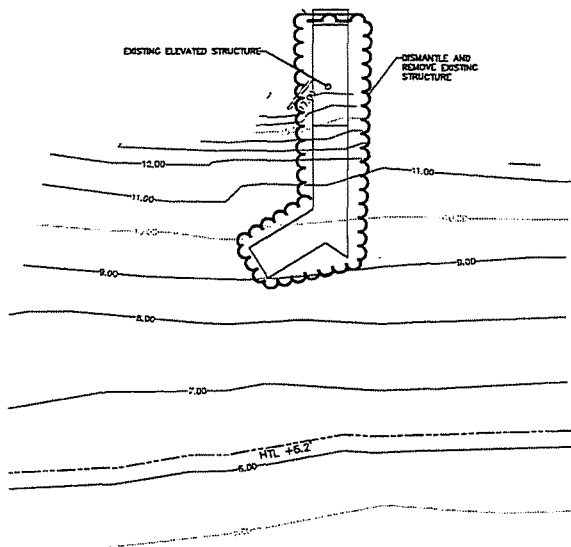
Carpentry work related to the structures will be completed using hand tools. The contractor will utilize a 900 series loader (18-24 tons) and end dump truck (21-31 tons) to move and transport sand from Access No. 7 and/or 11. Smaller equipment, such as skid steers and mini excavators in the 7-14 ton range, will be utilized to place sand around structure. Motorized equipment will be removed from the beach at the end of each day.

Tabular Summary of Proposed Work Covered in the Emergency Certification Request

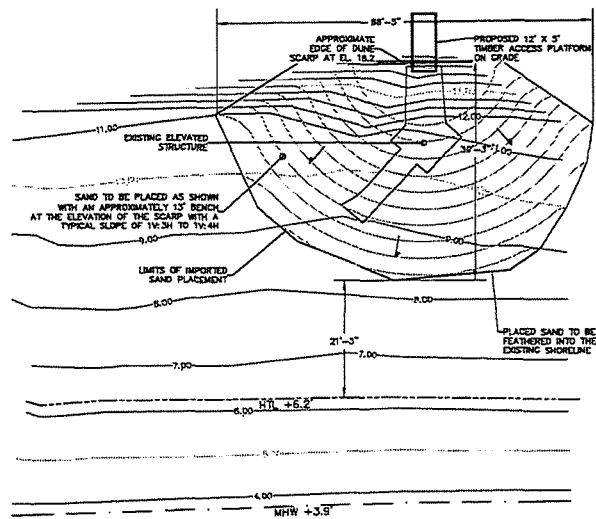
| Access | Description of Work |
|---------------|---|
| Access No. 8 | Demolition and removal of existing structure |
| Access No. 8 | Remove rusted fence posts |
| Access No. 8 | Close existing structure |
| Access No. 9 | Install 12'x5' timber access pad at upper structure access |
| Access No. 9 | Construct 4'x4' stair landing at lower structure access |
| Access No. 9 | Construct 3 to 4 stair risers to existing grade at lower structure access |
| Access No. 9 | Install 4 helical piles |
| Access No. 9 | Place sand as shown in drawings |
| Access No. 10 | Install 12'x5' timber access pad at upper structure access |
| Access No. 10 | Place sand as shown in drawings |



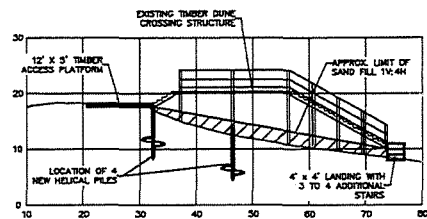
BEACH ACCESS 9 - PLAN VIEW
SCALE: 1"=10'



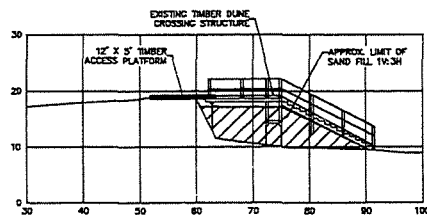
BEACH ACCESS 8 - PLAN VIEW
SCALE: 1"=10'



BEACH ACCESS 10 - PLAN VIEW
SCALE: 1"=10'



BEACH ACCESS 9 - SECTION 9
SCALE: 1"=20'



BEACH ACCESS 10 - SECTION 10
SCALE: 1"=20'

PLAN NOTES:

1. EXISTING STRUCTURE LAYOUT ADAPTED FROM PLANS BY GZA GEOENVIRONMENTAL, INC DATED JUNE 2018
2. ALL ELEVATIONS REFERENCE NAVD88 UNLESS OTHERWISE NOTED.
3. EXISTING SURFACE BASED ON FIELD MEASUREMENTS TAKEN BY SALSBURY'S ENVIRONMENTAL SCIENTIST ON 5/11/2023. MEASUREMENTS WERE TAKEN USING AN RTK GPS SYSTEM. HIGH TIDE LINE PROVIDED BY SALSBURY'S ENVIRONMENTAL SCIENTIST BASED ON RECENT LOCAL PROJECT SUBMISSIONS.
4. MHW AND MLW BASED ON PREVIOUS PLANS AND VERIFIED USING VDATUM VERSION 5.
5. MLW AT ELEVATIONS -4.8' (NAVD88)

| | | |
|--|--------------------|--------------------|
| BA #8, 9 & 10 BOARDWALK REPAIR PLAN & PROFILE VIEW | | |
| BOARDWALK REPAIR AT SALSBURY BEACH STATE RESERVATION STATE RESERVATION RD, SALSBURY MA | | |
| DEPARTMENT OF CONSERVATION AND RECREATION | | |
| BOSTON | | MASSACHUSETTS |
| SCALE: VARIES | DATE: 5/18/23 | |
| JOB NO./FILE NAME: SALBPLANS.DWG | DESIGNED BY: EG | PLAN NO. 1 OF 1 |
| | DRAWN BY: MC | CHECKED BY: MC |



Date: June 8, 2023
To: Salisbury Conservation Commission
c/o Adriane Marchland, Salisbury Conservation Agent:
From: Mark Georgian, DCR Coastal and Waterways Engineer
**RE: Salisbury Beach Access No. 8
Emergency Certification Request**

This document includes a description of work needed to address unsafe conditions at Salisbury Beach Access No. 8. A drawing showing the proposed work is attached separately. For construction details regarding see the sketches by Stantec, titled *DCR Salisbury Beach Access #8* dated May 19, 2023.

DCR requests that an Emergency Certification is not issued until after we receive permission from the Division of Fish and Wildlife (DFW) for a "Time of Year Intrusion". Once the Town is notified, we will consider the request complete. This is necessary to avoid exceeding the 30day window for work under the Certification. DCR will update the Commission when the permission is obtained.

Thank you for your feedback during the development of this plan. If you have any questions or comments, please do not hesitate to contact:

Mark Georgian, DCR Coastal and Waterways Engineer
Phone: 857.488.6900
Email: mark.n.georgian@mass.gov

Project Summary:

The Massachusetts Department of Conservation and Recreation (DCR) is requesting an Emergency Certification to address safety issues at Salisbury Beach Access No. 8. Recently, the damaged portion of the structure was demolished under the Emergency Certification requested by DCR on May 18, 2023. See Figure 1 below for a picture of the partially dismantled structure.



Figure 1: Photograph of Beach Access-8 being dismantled.

COMMONWEALTH OF MASSACHUSETTS · EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS

Department of Conservation and Recreation
251 Causeway Street, Suite 600
Boston MA 02114-2119
617-626-1250 | 617-626-1351 Fax
www.mass.gov/dcr



Maura T. Healey
Governor

Kimberley Driscoll
Lt. Governor

Rebecca L. Tepper, Secretary
Executive Office of Energy & Environmental Affairs

Brian Arrigo, Commissioner
Department of Conservation & Recreation

Beach Access No. 8 is critical for evacuating the beach and emergency access, so restoring its functionality is critical. With this closure, evacuating the beach or responding to an emergency requires additional travel of up to 0.2 miles to the north or 0.3 miles to the south, across a potentially crowded beach. Without the structures in place, the public will be more likely to seek alternative routes through sensitive dune habitat or use abutters' structures. These factors necessitate the restoration of beach access as soon as practicable. The sand placement and access reconstruction described below are necessary for the safety of citizens of the commonwealth.

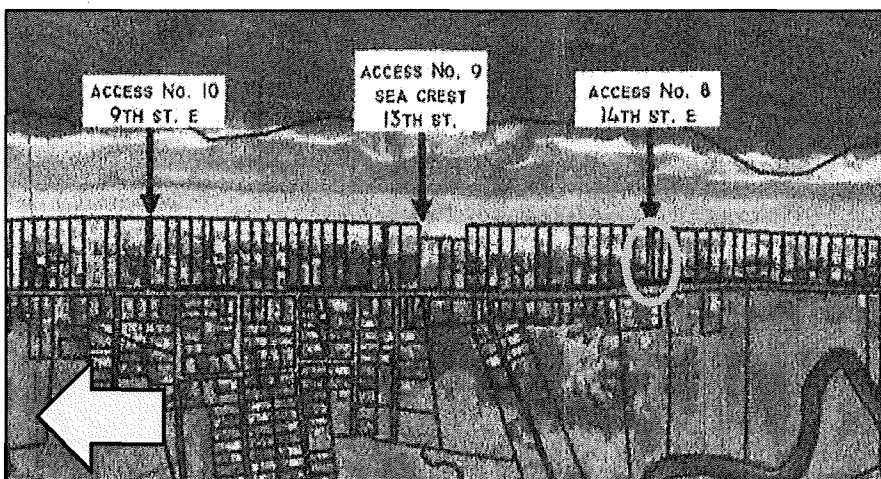
The approaches described in this request were developed in coordination with the Town of Salisbury's environmental scientist, DCR's engineering consultant (Stantec), and DCR staff. Feedback from Natural Heritage, USACE, Mass DEP, and Salisbury's Conservation Agent was sought in the development of this request.

DCR will be filing simultaneously to the Division of Fish and Wildlife (DFW) a request for a "Time of Year Intrusion" pursuant to the Massachusetts Endangered Species Act emergency provisions (321 CMR 10.15) and in accordance with the Salisbury Beach State Reservation Operation and Maintenance Plan (NHESP # 08-24602).

The recently demolished structure became unsafe primarily because of shoreline retreat. Erosion exposed a substantial length of the piles and helical plates, this reduced the stability and capacity of the structure. This process is likely to continue. As a result, the reconstructed structure is not anticipated to be permanent. At the same time, it is important to take measures to improve the longevity of the repair. This will be done by building the structure relatively close to existing grade and by supplementing the area around the structure with imported sand.

Location:

This request includes Beach Access No. 8 located in Beach Management Area – 2 of the *Salisbury Beach State Reservation Beach Operations and Maintenance Plan (OMP)* dated May 21, 2020:



Location of proposed work from circled in blue (north arrow is approximate).

Mitigation:

The Salisbury Beach Access Design Guidance indicates that elevated walkways should typically be 18" to 24" above the ground or as high as it is wide. The first 10' of the stairs, where vegetation is most likely to

establish, meets the 18" minimum. To mitigate possible impacts to vegetation, the design includes ThruFlow decking (or approved equal) to allow rain and sunlight to reach plants under the decking. The historic rate of erosion in this location suggests that dune expansion is unlikely. Instead, erosion is expected to increase the clearance over time which.

Replacing the structure in kind with a stair extension would result in a larger structure that covers more beach and extends farther seaward. The longer piles on such a structure would require a more substantial structure with a larger impact. The proposed approach reduces impacts to lateral beach access and provides a stable and relatively light weight structure.

State-Listed Shorebird Species:

The project area is influenced by tidal waters and hence unlikely to support successful nesting activity of state-listed species. While Piping Plover nesting activity was previously recorded 0.2 Miles north of the proposed project area, the project area was impacted by the monthly astronomical high tidal cycle recorded June 3 to Jun 6. All nesting activity washed out during this cycle. Currently there is a single PIPL male foraging across an extent of 0.6 miles.

If new breeding activity is recorded in the project area, a monitoring plan and further protection measures will be implemented as follows:

- 1) The start of work and the continuation of work are subject to the restrictions identified below and will depend upon a) the availability of the monitor(s) to inspect the site and b) the status/proximity of state-listed species.
- 2) Prior to the start of work, the qualified shorebird monitor(s) must survey all areas of suitable habitat within a minimum of 200 m from the project area for any state-listed species nesting activity, including pre-nesting scrapes. This survey may not occur more than 24 hours prior to the start of work. If the survey occurs and work does not commence, the site will need to be re-surveyed prior to the start of work.
- 3) Prior to the start of work and for each following survey, the qualified shorebird monitor must determine the location of all state-listed species, nests, scrapes and unfledged chicks. The status of symbolic fencing shall be noted and, if necessary, adjusted to ensure all nests and scrapes are protected.
- 4) Mechanized equipment on the coastal beach should not travel within 200 m of piping plovers, their nests, pre-nesting scrapes, unfledged chicks and their known brood range. The qualified shorebird monitor will determine the 200m distance from the brood location and, if it encroaches into the project area, identify the location and communicate with the applicant and contractor. Flagging, or appropriate marker may be utilized to prevent encroachment into the 200m buffer area for state-listed species protection.
- 5) If the qualified shorebird monitor determines that there is potential for unfledged chicks to be present within 200m of the work area, then the qualified monitor(s) must be onsite in advance of the start of work to determine the location of all unfledged chicks and must remain onsite for the duration of work. If unfledged chicks move closer to the project site expanding the brood range(s) then the 200m buffer must be adjusted accordingly.
- 6) If it is determined that state-listed shorebirds are disturbed by the activity, (1) all work must cease immediately and (2) notification must be provided to DFW, NHESP program and USFWS for further consultation.
- 7) A summary report of the shorebird monitoring must be provided to DFW.

Description of Work:

Structure:

The recently demolished beach access structure connected the dune to the beach and the new structure will restore this functionality. The recently demolished access was comprised of decking fastened to a wood frame supported by helical piles. The new proposed structure will be of similar construction, with ThruFlow decking used where practicable. As shown in the attached plans, the structure has been configured minimize the impacts. For additional construction details, see the Sketches by Stantec attached separately.

Sand Placement:

The imported sand will be placed at a maximum slope of 3H:1V. Based on the elevation data provided by the Town, it appears that sand may not be placed to the crest of the dune without burying portions of the structure. It is anticipated that this will result in approximately 1.3' of dune crest remaining. That said, the final elevation of the placed sand will depend on the conditions encountered in the field at the time of construction. Note that the sand along the natural grade typically erodes slower than the placed sand, so placing more sand and elevating the structure would be counterproductive.

Equipment:

The proposed work is anticipated to require hand tools and equipment authorized for use under *Table 1: Existing Beach Equipment* in the most recent OMP which may including a front-end loader and dump truck. A complete list of equipment to be utilized can be found at the end of this document. The equipment shall be inspected daily for leaks of any type, and the Contractor shall maintain a spill kit for the duration of the work. Refueling shall not be permitted in the resource area.

Access:

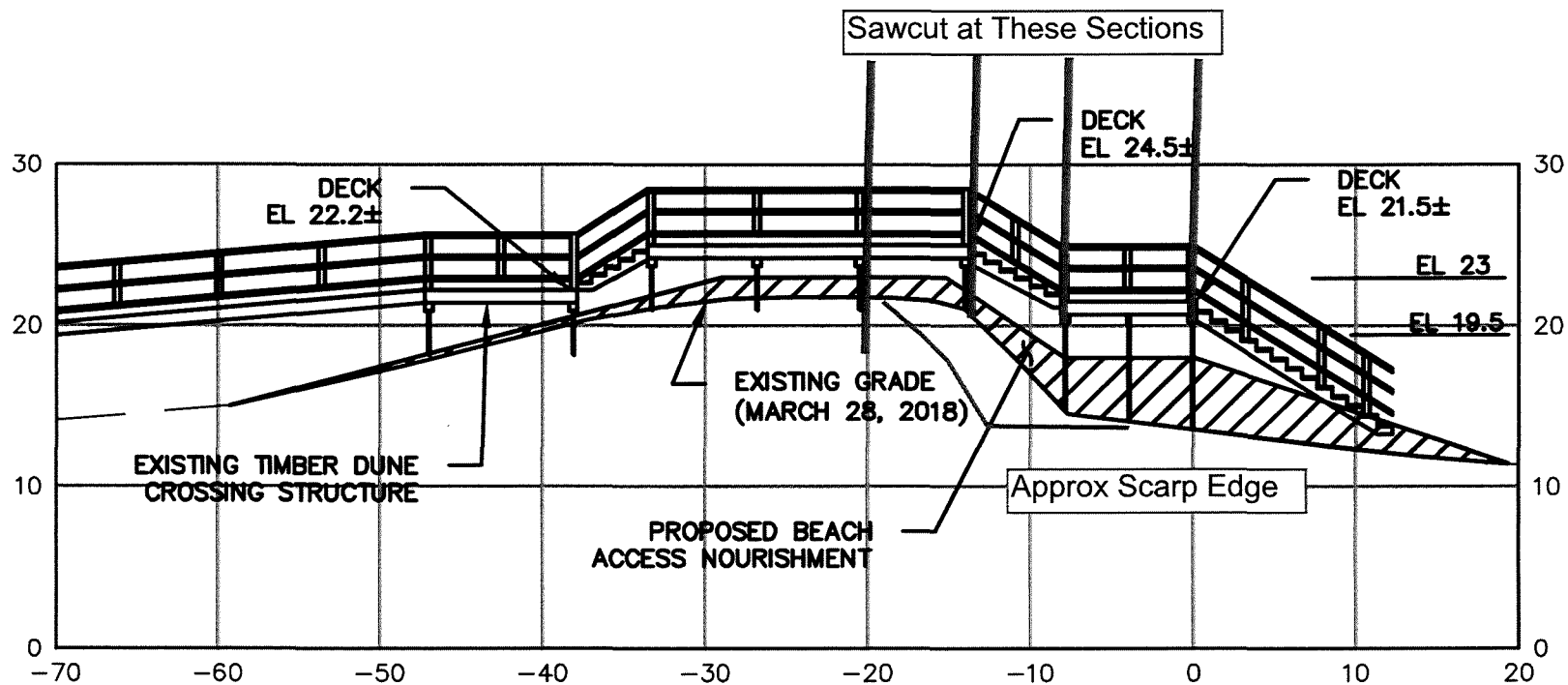
The primary route for equipment traveling to the Site will be Access No. 7, including a 1-ton dump truck. Access No. 11 will be used as a secondary route as needed for safety or to minimize impacts to endangered species. Motorized equipment will be removed from the beach at the end of each day.

Summary of Proposed Work Covered in the Emergency Certification Request:

- Import and place sand
- Install helical anchors
- Construct stairs and landing
- Remove closure fencing and signage
- Summary of equipment

Summary of Equipment to be Utilized:

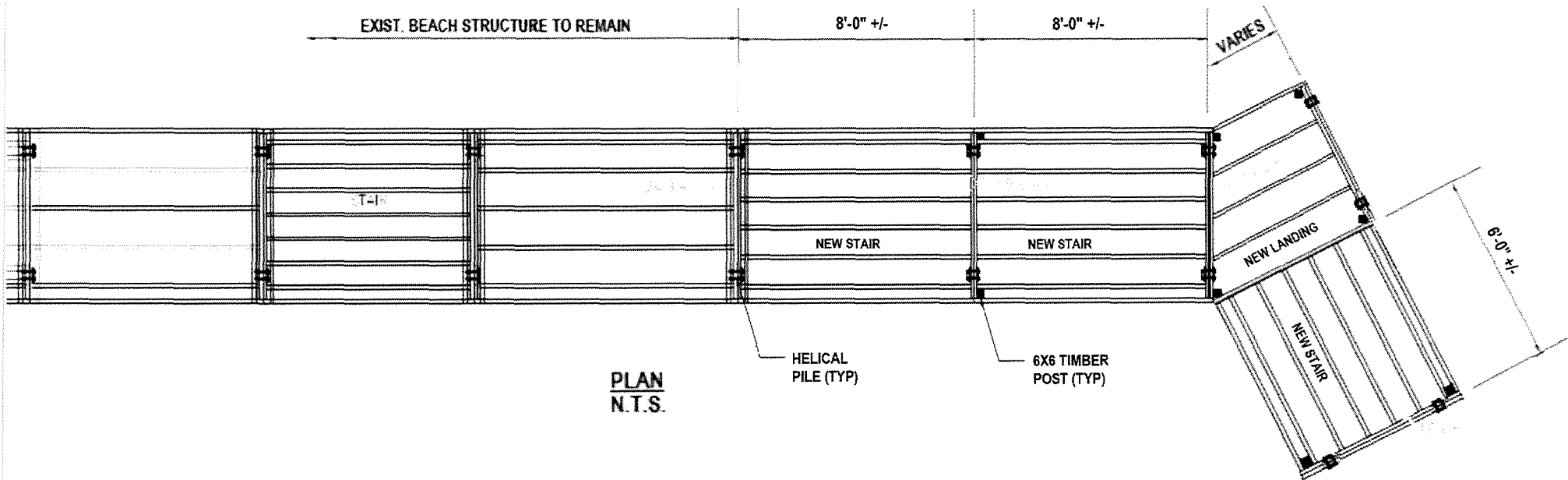
- 1 Ton Dump Truck (to carry lumber and supplies)
- 30 Ton Off Road Dump Truck (sand hauler)
- CAT 320 Excavator (for installation of helical piles and placement of sand under and around the new stairs)
- John Deere UTV (for escorting dump truck and personal)
- Tools of the Trade (to reconstruct the stairs)



ACCESS NO. 8 (14th STREET EAST) – SECTION 8–8'
SCALE: 1"=20'

Demolition Plan for Access No. 8

1. Secure perimeter fence
2. Sawcut timber structure at the sections in sketch above
3. Use a mini-excavator to lower structure away from the scarp, one section at a time.
4. Dismantle lowered sections on the beach and haul spoils to DCR yard.
5. Fence off remaining helical piles to be drilled out by piling subcontractor at a later date.



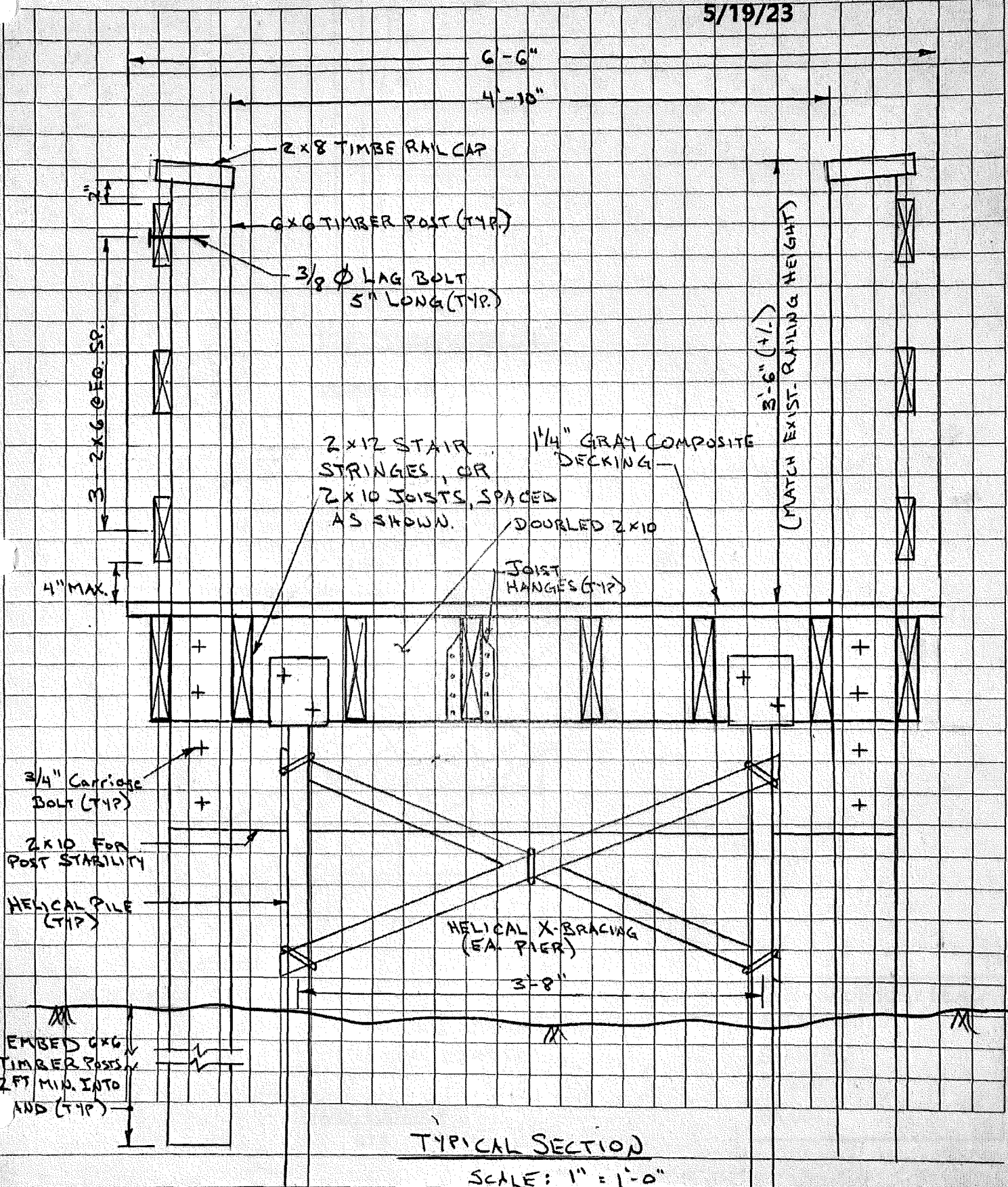
**PLAN
N.T.S.**

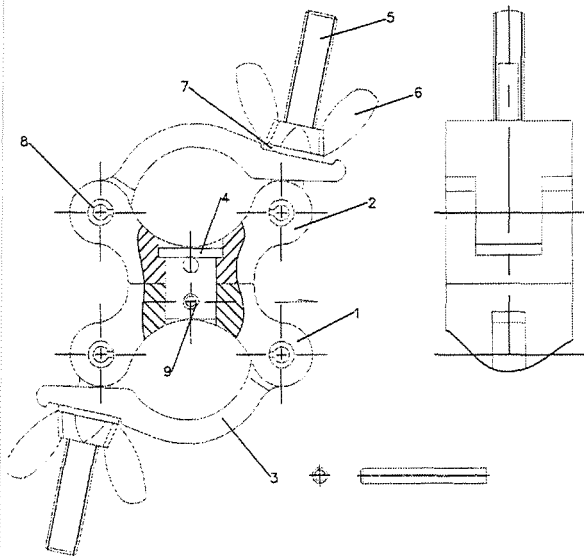
NOTES:

1. ALL DECKING AND FRAMING SHALL MEET 100 PSF LOADING, AND BE IN COMPLIANCE WITH THE MASSACHUSETTS STATE BUILDING CODE, 8TH EDITION AND THE INTERNATIONAL BUILDING CODE, 2012 EDITION.
2. HEAVY DUTY VINYL COATED 10 GAUGE WIRE IS TYPICAL FOR ALL RAILS.
3. PIPE BRACING WITH BRACING SWIVEL COUPLERS SHALL BE USED IN BAYS AS SHOWN IN DRAWING.
4. PLANS AND SECTIONS ARE APPROXIMATE AND ARE TO BE USED FOR GENERAL LAYOUT. CONTRACTOR TO VERIFY DIMENSIONS AND LAYOUT IN THE FIELD PRIOR TO COMMENCING WORK.
5. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD BEFORE ORDERING MATERIALS OR STARTING WORK.
6. FIELD VERIFY ALL WORK POINT LOCATIONS AND ADVISE OWNER OF ANY DISCREPANCIES BETWEEN ACTUAL LOCATIONS AND THOSE SHOWN ON DRAWINGS BEFORE PROCEEDING WITH WORK.
7. CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO AVOID DAMAGE TO ANY EXISTING STRUCTURE TO REMAIN IN PLACE DURING CONSTRUCTION AND/OR AFTER CONSTRUCTION IS COMPLETE.
8. ALL FRAMING TIMBER TO BE SOUTHERN YELLOW PINE NO. 1 DENSE, 0.4 ACQ TREATED UNLESS OTHERWISE SPECIFIED.
9. DECK BOARDS TO BE GRAY COMPOSITE DECKING, WITH VISIBLE WOOD GRAIN, FASTENED TO STRINGERS WITH COMPOSITE RECOMMENDED DECK SCREWS.
10. BRACKETS TO BE STAINLESS STEEL AS MANUFACTURED BY SIMPSON STRONG-TIE OR EQUAL.
11. CONTRACTOR SHALL REPLACE THE WWF ON THE BEACH PLATFORM AND STAIR, WHICH ARE TO REMAIN.

DCR SALISBURY BEACH
ACCESS #8
STANTEC
5/19/23
SK-01

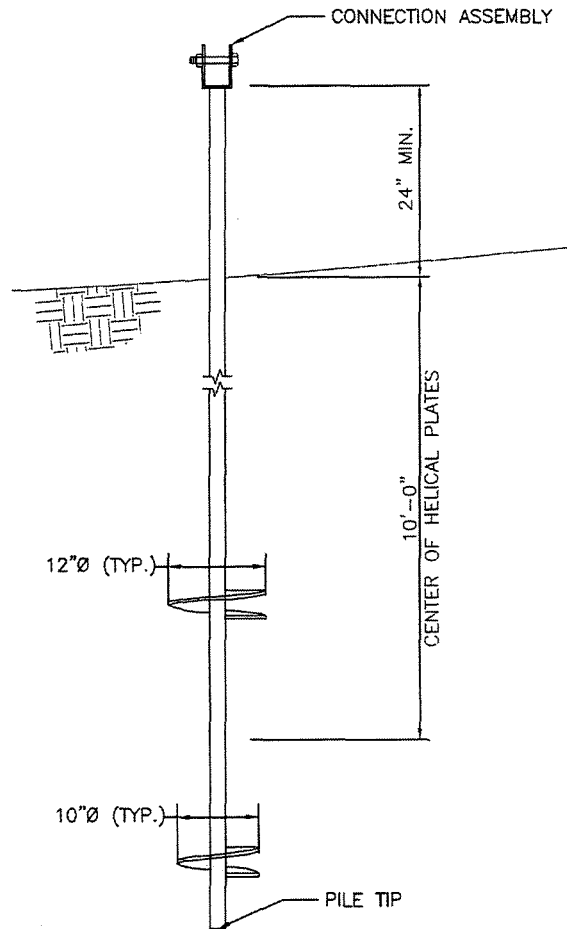
5/19/23





| | | | |
|---|--------------|---|---------|
| 1 | Base Plate 1 | 1 | |
| 2 | Base Plate 2 | 1 | |
| 3 | Moving Plate | 2 | |
| 4 | Pin | 1 | |
| 5 | Eye Bolt | 2 | 1/2"-12 |
| 6 | Wing-Nut | 2 | 1/2"-12 |
| 7 | Washer | 2 | 12 |
| 8 | Spring-Pin | 4 | 10X45 |
| 9 | Spring-Pin | 2 | 6X50 |

SWIVEL COUPLER
SCALE: NTS



HELICAL PILE DETAILS
SCALE: NTS

HELICAL PILE NOTES

1. DESIGN IS PRELIMINARY. CONTRACTOR TO FINALIZE DESIGN BASED ON WALKWAY PLANS AND FIELD CONDITIONS. CONTRACTOR SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL BY ENGINEER.
2. BEACH SOIL LAYER IS ASSUMED TO CONSIST OF 10' MEDIUM DENSE SAND. CONTRACTOR TO VERIFY AND SUBMIT FINDING FOR APPROVAL.

NOTES

1. ALTERNATIVE PIPE BRACING CONNECTORS SHALL BE PERMITTED WITH APPROVAL FROM THE ENGINEER.

DCR - SALISBURY BEACH
ACCESS #8
STANTEC
5/19/23
SK-05



MASSWILDLIFE

DIVISION OF FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581

p: (508) 389-6300 | f: (508) 389-7890

MASS.GOV/MASSWILDLIFE

June 8, 2023

Priscilla Geigis
DCR Deputy Commissioner
251 Causeway Street
Boston MA 02114

RE: Applicant: Priscilla Geigis, DCR Deputy Commissioner
 Project Location: Beach Access No. 8, Salisbury Beach State Reservation
 Project Description: Beach Access Stair Replacement
 NHESP File No.: **08-24602**

Dear Commissioners & Applicant:

The Natural Heritage & Endangered Species Program of the Massachusetts Division of Fisheries & Wildlife (the "Division") received the MESA Review Checklist, site plans titled "DRAFT PERMIT PLAN: BEACH ACCESS NO. 8 PROPOSED REPLACEMENT" dated 6/1/23 prepared by Department of Conservation and Recreation and supporting documentation for review pursuant to the MA Endangered Species Act Regulations (321 CMR 10.18).

The beach access stair replacement and associated work will occur within the **actual** habitat of the Piping Plover (*Charadrius melodus*) a state-listed Threatened species. State-listed species and their habitats are protected in accordance with MESA. The Piping Plover is federally protected as "Threatened" pursuant to the U.S. Endangered Species Act (ESA, 50 CFR 17.11). Fact sheets for state-listed species can be found at www.mass.gov/nhesp. In Massachusetts, these coastal birds can be found during April – August. Piping Plovers are ground-nesting birds that will establish nests on sparsely vegetated, sandy areas of coastal beaches and dunes. Their nests are comprised of shallow depressions in the sand that may be lined with shell fragments or pebbles. Piping Plovers, terns, their nests, and chicks are particularly vulnerable to predators, unleashed pets, and human disturbance. After hatching, unfledged chicks are not capable of flight for a period up to 30 days. Piping Plover chicks range widely to forage and seek shelter.

The purpose of the Division's review under the MESA regulations is to determine whether a Take of state-listed species will result from the proposed project. Based on the information provided and the information contained in our database, the Division has determined that this project, as currently proposed, **must be conditioned in order to avoid a prohibited Take** of state-listed species (321 CMR 10.18(2)(a)). To avoid a prohibited Take of state-listed species the following conditions must be implemented:

1. **Time of Year Restriction.** Work associated with the beach access stair, including maintenance, repair or replacement shall not occur during the shorebird breeding period **April 1 – August 31**, unless a monitoring and protection for state-listed species is approved in writing by the Division.

MASSWILDLIFE

2. **State-listed Species Protection.** The property owner has the responsibility of protecting breeding Piping Plovers and state-listed species of terns that may utilize section of beach. Therefore, the property owner must allow regular monitoring for the presence of Piping Plovers and terns by a qualified shorebird monitor, as determined by the Division, during the period April 1 – August 31 and shall allow any nests, scrapes, or unfledged chicks to be protected with symbolic fencing (warning signs and twine fencing).
3. **Authorization Duration.** This authorization is valid for 5 years from the date of issuance. Work may be completed at any time during this 5-year period in compliance with the conditions herein. Thereafter, the applicant shall re-file under the MESA.

Provided with all the above noted conditions are properly implemented the project will not result in a prohibited Take of state-listed species pursuant to the MESA. This determination is a final decision of the Division of Fisheries and Wildlife pursuant to 321 CMR 10.18. Any changes to the proposed project or any additional work beyond that shown on the site plans may require an additional filing with the Division pursuant to the MESA. This project may be subject to further review if no physical work is commenced within five years from the date of issuance of this determination, or if there is a change to the project.

Please note that this determination addresses only the matter of state-listed species and their habitats. If you have any questions regarding this determination please contact Amy Hoenig, Endangered Species Review Biologist, at Amy.Hoenig@mass.gov or (508) 389-6364.

Sincerely,



Everose Schlüter, Ph.D.
Assistant Director

cc: Mark Georgian, DCR Coastal and Waterways Engineer
Jorge Ayub, Senior Coastal Ecologist
Salisbury Conservation Commission