



City of East Providence Engineering Division

Roberto L. DaSilva
Mayor

Erik Skadberg
City Engineer

May 22, 2025

Rhode Island Coastal Resources Management Council
Stedman Government Center, Suite 116
4808 Tower Hill Road
Wakefield, RI 02879-1900

RE: Crescent Park Slope Stabilization

To whom it may concern,

This letter documents the City's intent to use the excess sand generated from the slope stabilization project at and along Crescent Park beach as well as Sabin Point Park. At Crescent Park, the sand will be placed at the toe of the southerly revetment to mimic a low dune and will also be placed within the revetment stone area. At Sabin Point Park the sand will be placed along portions of the existing stone retaining wall, to mimic a sand dune and will be planted with beach grasses.

It is anticipated that there will be excess sand after it is placed as dunes and within the revetment. This sand will be stockpiled and protected with fencing at the City's municipal yard on Forbes Street, for use when the beaches at Crescent Park and Sabin Point Park need sand re-nourishment.

If you have any further questions or concerns, please feel free to contact me at 401-435-7703.

Sincerely,

Erik Skadberg, PE
Deputy DPW Director/City Engineer



FREG

FR Engineering Group

LETTER OF TRANSMITTAL

2346 Post Road, Suite 202

Warwick, RI 02888

Cell: 401-575-1569

stephanie.robat@fr-eng.com

TO: Mr. Rich Lucia, PE - CRMC
Oliver Stedman Government Center
Wakefield, Rhode Island

DATE:	5/23/2025	JOB NO:	22006.00
ATTENTION:			
RE: Emergency Slope Repairs Rose Larisa Memorial Park 701 Bullocks Point Avenue East Providence, RI			

WE ARE SENDING YOU

Attached Under separate cover via _____ the following items

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order Additional Information for Assent Application Amendment/Modification

COPIES	DATE	NO.	DESCRIPTION
1			Transmittal
4			Additional Information for Application Package

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS:

Rich,
Attached, as discussed, is the additional information requested related to the CRMC Assent application amendment/modification for the existing Assent 2023-04-007 and the pending assent application 2023-10-015. Please call me to discuss if you have any questions. As always thank you for the help. Stephanie

COPY TO: Robert Fairbanks, PE (FEC, via email) SIGNED: Erik Skadberg, PE (East Prov, via email)

If enclosures are not as noted, kindly notify us at once.

Stephanie Robot, P.E.
President





ENGINEERING GROUP

Geotechnical & Waterfront Engineers

May 22, 2025

Mr. Richard Lucia, P.E.
Coastal Resources Management Council (CRMC)
4808 Tower Hill Road
Wakefield, RI 02879
Email: rluca@crmc.ri.gov

Re: Sand Berm Construction & Beach Nourishment
Crescent Park and Sabin Point
East Providence, RI 02915
CRMC File #: 2023-10-015
FREG Project No. 22006.00



Dear Mr. Lucia,

This letter summarizes the additional work proposed by the City of East Providence (City) at Crescent Park and the work proposed at Sabin Point Waterfront Park, located in East Providence, Rhode Island, along the eastern shoreline of the Providence River and the upper reaches of Narragansett Bay. In general, the additional work proposed intends to build on the proposed design and layout shown in the CRMC Category B application, 2023-10-015, which is currently under review. This letter and the additional work proposed is in response to Save the Bay's letter to CRMC titled 'RE: City of East Providence c/o Erik Skadberg, PE, File Number: 2023-10-015', dated November 27, 2024, as well as the meetings with CRMC, Save the Bay, the City of East Providence, and FR Engineering Group that occurred on December 10, 2024 and March 31, 2025. No changes to the proposed construction access are being made.

Description of Work:

Due to the large volume of sand scheduled for removal during construction of the proposed shoreline protection system along Crescent Park's southern shoreline, the City proposes the following additional work to keep as much sand as feasible 'in the system'. All sand materials will be sourced from the excavation at Crescent Park. No imported sand material is proposed. Attached to this letter are the gradation results of the outwash sand collected from Crescent Park's southern shoreline sand slope. Refer to the attached plans for additional information/details. In general, the additional work proposed is as follows:

Crescent Park

1. Construct a 10 ft wide sand berm along the seaward side of the proposed revetment toe at a maximum slope of 3H:1V;
2. Plant American beachgrass on the sand berm spaced at 1 foot on center;
3. Install post and rope fencing at the toe of the sand berm to protect vegetation;
4. Place sand in the revetment stone matrix, as feasible;
5. Place sand in the revetment stone matrix along Crescent Park's northern shoreline (CRMC # 2022-02-036), as feasible;
6. Place sand at end of Beach Road (above high tide line) after completion of the new stormwater system construction; and,
7. Regrade beach profile seaward of the sand berm up to the high tide line at a maximum slope of 10H:1V where feasible.



Sabin Point

1. Construct sand berm with a maximum slope of 3H:1V;
2. Plant American beachgrass on the sand berm spaced at 1 foot on center;
3. Remove and demolish/abandon existing buried drainage utilities as shown;
4. Install post and rope fencing around the perimeter of the sand berm to protect vegetation; and,
5. Install timber access mat over sand berm for pedestrian access.

Sand Volume Calculations:

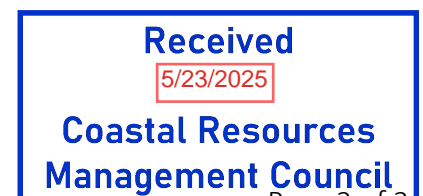
For estimating purposes, FREG calculated the approximate volume of sand to be excavated to facilitate construction of the proposed shoreline protection system. We also estimated how much of it would be utilized to construct the sand berm, infill the revetment stone matrix, re-grade the southern shoreline beach at Crescent Park, and construct the sand berm at Sabin Point. Refer to the table below for the estimated volumes.

SAND TABLE ESTIMATES	
LOCATION	VOLUME OF MATERIAL (Cubic Yards)
ESTIMATED SAND PRODUCED FROM EXCAVATION AT CRESCENT PARK	
Crescent Park – Material Excavated	30,000
ESTIMATED SAND PLACED AT CRESCENT PARK	
Crescent Park – Grade 10H:1V from High Tide Line to Sand Berm	200
Crescent Park – Construction of Sand Berm	2,400
Crescent Park – Placement of Sand within Revetment Matrix	2,500
ESTIMATED SAND PLACED AT SABIN POINT	
Sabin Point – Construction of Sand Berm	800

Based on these volumes, we estimate that approximately 6,000 cubic yards of material will be used during the project, and 24,000 cubic yards of sand will remain after completion of the project. The City proposes to stockpile the sand at its municipal yard located on Forbes Street in East Providence, RI.

Future Sand Usage:

It is the City’s intent to utilize the excess sand to renourish the entirety of Crescent Park’s beach, the sand berms at both parks, and the revetment stone matrices, as needed. Based on CRMC’s shoreline change map titled ‘Narragansett Bay, Rhode Island: East Providence, Bullocks Cove’, we estimate 0.43 feet of erosion per year (Transect 1249). Using this estimate, the area will see 2.15 feet of erosion over the next 5 years. Based on this data, we anticipate that renourishment will be required at least every 5 years. Assuming the beach will be returned to its current grades during the renourishment work, each renourishment cycle will likely use a minimum of 12,000 cubic yards of sand; therefore, the remaining stockpile should be used entirely within two cycles, or 10 years.





We trust that this letter is suitable for your needs at this time. If you have any questions, please do not hesitate to call us or email us at stephanie.robat@fr-eng.com.

Very truly yours,
FR Engineering Group, Inc.

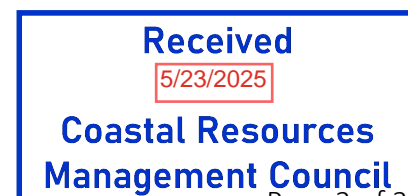
A handwritten signature in blue ink, appearing to read 'Stephanie Robat'.

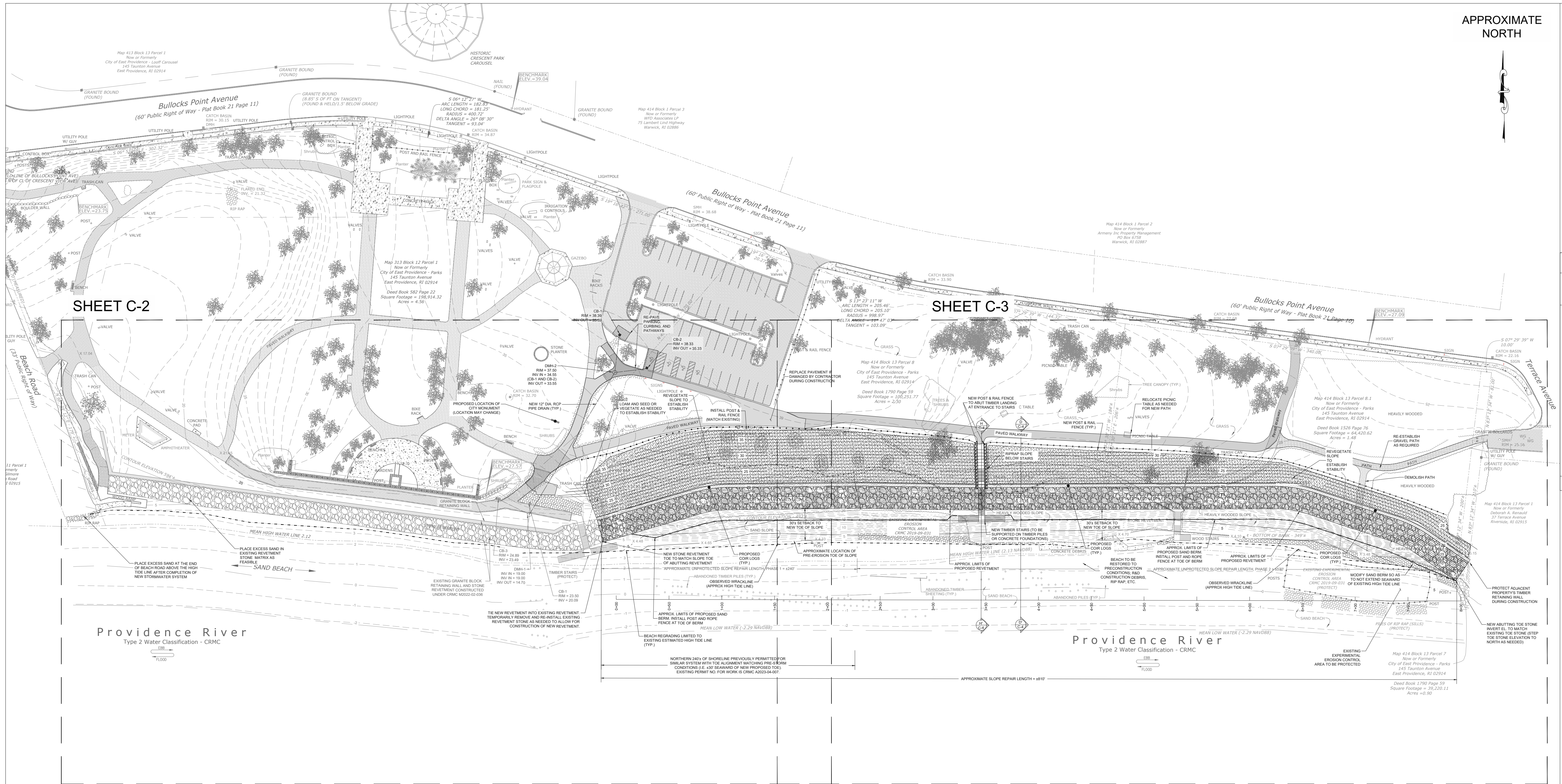
Stephanie Robat, P.E.
President

A handwritten signature in blue ink, appearing to read 'Brandon Follansbee'.

Brandon Follansbee
Project Geologist

Attachments: Plan Sheets C-1 through C-5
Laboratory Gradation Results
Sand Use Letter from the City of East Providence





APPROXIMATE NORTH

SHEET C-2

SHEET C-3

FR ENGINEERING GROUP
 2346 Post Road, Suite 202
 Warwick, RI 02886
 401-575-1569
 stephanie.robat@fr-eng.com

REVISION DESCRIPTION	DATE	BY

**CRESCENT PARK SHORELINE PROTECTION
 CRESCENT PARK
 EAST PROVIDENCE, RHODE ISLAND**

PROPOSED SAND PLACEMENT PLAN - OVERALL

1 PROPOSED SAND PLACEMENT PLAN - OVERALL
 SCALE: 1" = 50'

LEGEND

	EXISTING CONTOUR (MAJOR)		EXISTING RIP RAP
	EXISTING CONTOUR (MINOR)		EXISTING STONE REVETMENT
	ESTIMATED HIGH TIDE LINE		PROPOSED NEW STONE REVETMENT
	PROPOSED CONTOUR (MAJOR)		PROPOSED VEGETATED SLOPE
	PROPOSED CONTOUR (MINOR)		PROPOSED COIR LOGS
	PROPOSED TOE OF SAND BERM / POST & ROPE FENCE		
	EXISTING OVERHEAD WIRES		
	EXISTING SEWER MANHOLE		
	EXISTING DRAINAGE MANHOLE		
	EXISTING CATCH BASIN		
	EXISTING BUILDING		
	EXISTING SPOT GRADE		
	EXISTING STONE WALL		
	EXISTING UTILITY POLE		
	EXISTING LIGHT POLE		
	EXISTING WATER GATE		
	EXISTING HYDRANT		

NOTES

- THIS BASE PLAN WAS DEVELOPED FROM THE FOLLOWING AUTOCAD DWG FILE:
 1.1. "2020050.DWG" BY THE CITY OF EAST PROVIDENCE DEPARTMENT OF PUBLIC WORKS - ENGINEERING DEPARTMENT.
- THE FIELD SURVEY FOR THE BASE PLAN WAS COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION ON AUGUST 7, 2020 AND DOES NOT REFLECT RECENT CHANGES TO SITE CONDITIONS.
- THE WRACKLINE IS BASED ON LIMITED SURVEY INFORMATION OBTAINED BY FR ENGINEERING GROUP ON 12/24/2024 USING AN EMLID REACH RS3 GPS USING RTK CORRECTIONS. INFORMATION SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHODS USED AND REFLECT THE CONDITIONS OF THE SITE AT THE TIME OF THE SURVEY.
- EXCESS SAND GENERATED DURING CONSTRUCTION TO BE USED AS NOTED. REMAINDER OF EXCESS SAND TO BE TRANSPORTED TO THE CITY'S YARD ON FORBES STREET FOR FUTURE BEACH REPLENISHMENT NEEDS.

Received
 5/23/2025
 Coastal Resources
 Management Council

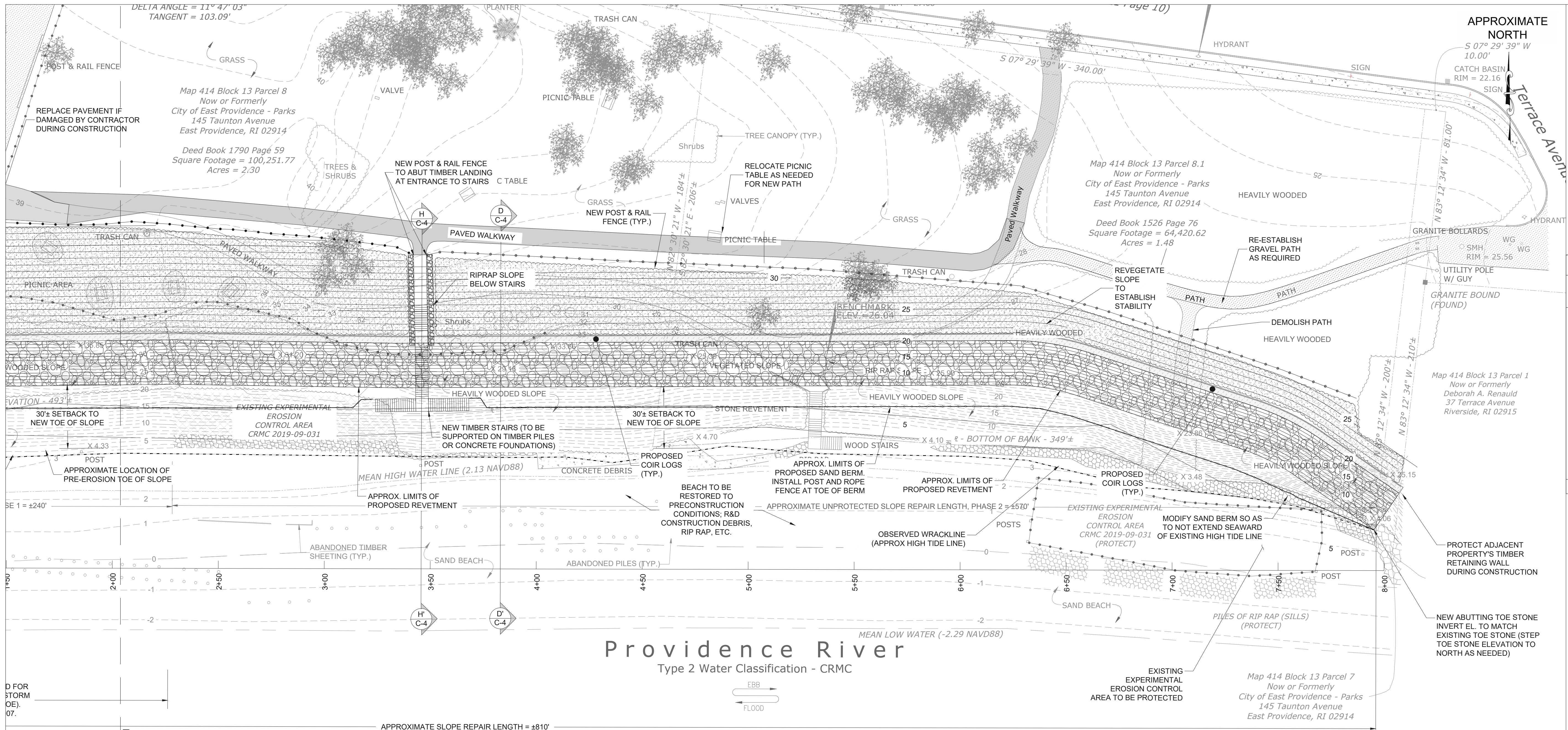
STEPHANIE M. ROBAT
 05/23/2025
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL 5/22/25

0' 25' 50' 100'
 FULL SCALE (22X34 PRINT): 1" = 50'
 HALF SCALE (11X17 PRINT): 1" = 100'

PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE: MAY 22, 2025
 DESIGN BY: SMR
 DRAWN BY: BMF
 CHECKED BY: SMR
 PROJECT NUMBER: 22006.00

C-1
 SHEET 1 OF 5



Providence River

Type 2 Water Classification - CRMC

1 PROPOSED SAND PLACEMENT PLAN
SCALE: 1" = 25'

- LEGEND**
- EXISTING CONTOUR (MAJOR)
 - EXISTING CONTOUR (MINOR)
 - ESTIMATED HIGH TIDE LINE
 - PROPOSED CONTOUR (MAJOR)
 - PROPOSED CONTOUR (MINOR)
 - PROPOSED TOE OF SAND BERM / POST & ROPE FENCE
 - EXISTING OVERHEAD WIRES
 - EXISTING SEWER MANHOLE
 - EXISTING DRAINAGE MANHOLE
 - EXISTING CATCH BASIN
 - EXISTING BUILDING
 - EXISTING SPOT GRADE
 - EXISTING STONE WALL
 - EXISTING UTILITY POLE
 - EXISTING LIGHT POLE
 - EXISTING WATER GATE
 - EXISTING HYDRANT
 - EXISTING RIP RAP
 - EXISTING STONE REVETMENT
 - PROPOSED NEW STONE REVETMENT
 - PROPOSED VEGETATED SLOPE
 - PROPOSED COIR LOGS

- NOTES**
- THIS BASE PLAN WAS DEVELOPED FROM THE FOLLOWING AUTOCAD DWG FILE: 1.1. '2020060.DWG' BY THE CITY OF EAST PROVIDENCE DEPARTMENT OF PUBLIC WORKS - ENGINEERING DEPARTMENT.
 - THE FIELD SURVEY FOR THE BASE PLAN WAS COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION ON AUGUST 7, 2020 AND DOES NOT REFLECT RECENT CHANGES TO SITE CONDITIONS.
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 - EXCESS SAND GENERATED DURING CONSTRUCTION TO BE USED AS NOTED. REMAINDER OF EXCESS SAND TO BE TRANSPORTED TO THE CITY'S YARD ON FORBES STREET FOR FUTURE BEACH REPLENISHMENT NEEDS.

Received
5/23/2025
Coastal Resources
Management Council

STEPHANIE M. ROBAT
12101
REGISTERED
PROFESSIONAL ENGINEER
CIVIL 5/22/25

0' 12.5' 25' 50'
FULL SCALE (22X34 PRINT): 1" = 25'
HALF SCALE (11X17 PRINT): 1" = 50'

FR ENGINEERING GROUP
2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1569
stephanie.robat@fr-eng.com

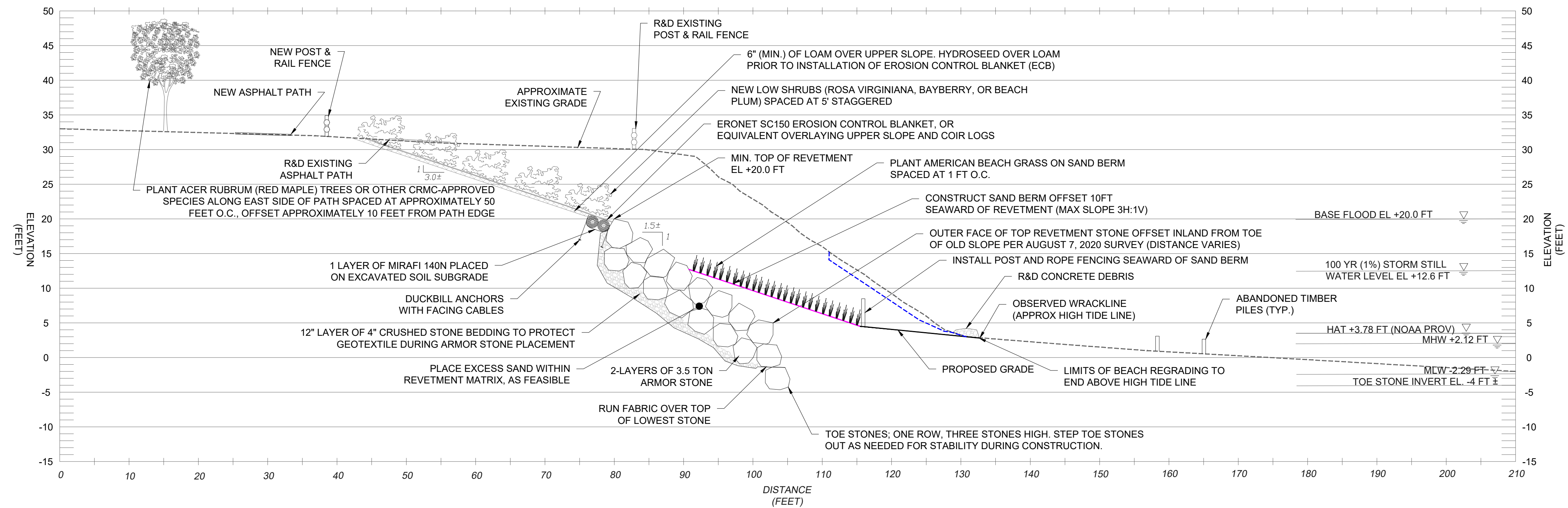
REVISION #	DESCRIPTION	DATE	BY

CRESCENT PARK SHORELINE PROTECTION
CRESCENT PARK
EAST PROVIDENCE, RHODE ISLAND
PROPOSED SAND PLACEMENT PLAN - 2 OF 2

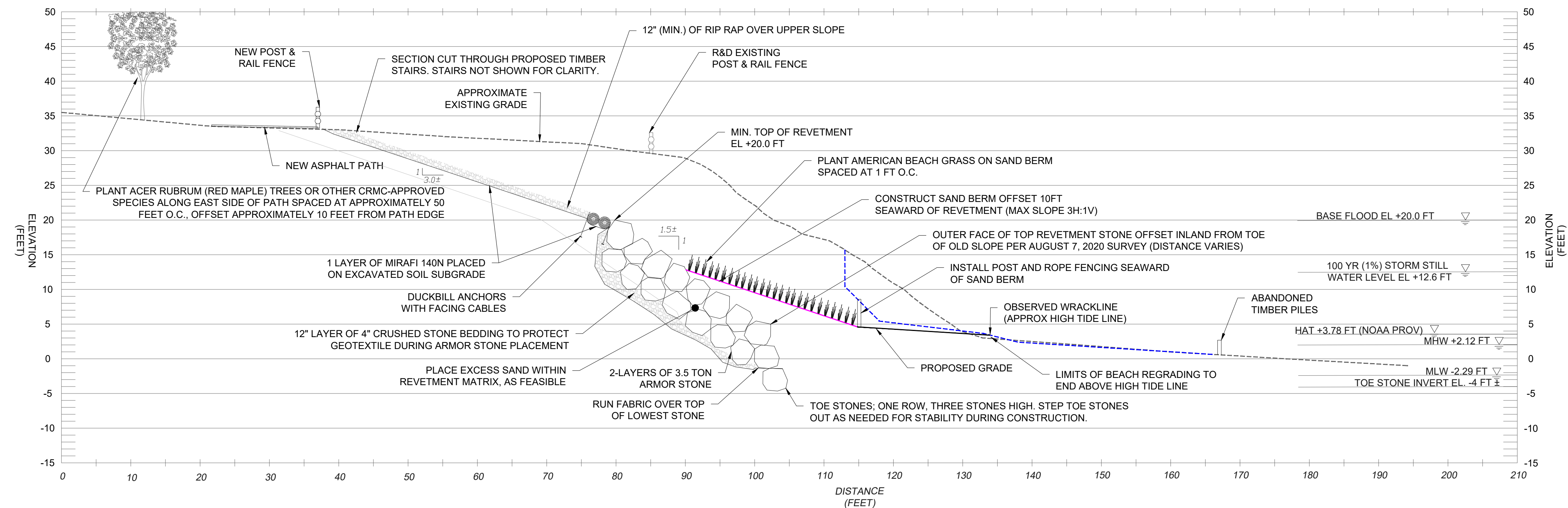
PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE: MAY 22, 2025
DESIGN BY: SMR
DRAWN BY: BMF
CHECKED BY: SMR
PROJECT NUMBER: 22006.00

C-3
SHEET 3 OF 5



D-D' REVETMENT SECTION D-D'
C-1 C-4 SCALE: 1" = 10'



H-H' REVETMENT SECTION H-H'
C-1 C-4 SCALE: 1" = 10'

- LEGEND**
- PRE-EXISTING GRADE
 - - - - - APPROX. LIMITS OF EROSION (2025)
 - BERM 10' OFFSET (3H:1V)
 - PROPOSED GRADE

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STEPHANIE M. ROBAT
12101
REGISTERED
PROFESSIONAL ENGINEER
CIVIL 5/22/25

0' 5' 10' 20'
FULL SCALE (22X34 PRINT): 1" = 10'
HALF SCALE (11X17 PRINT): 1" = 20'

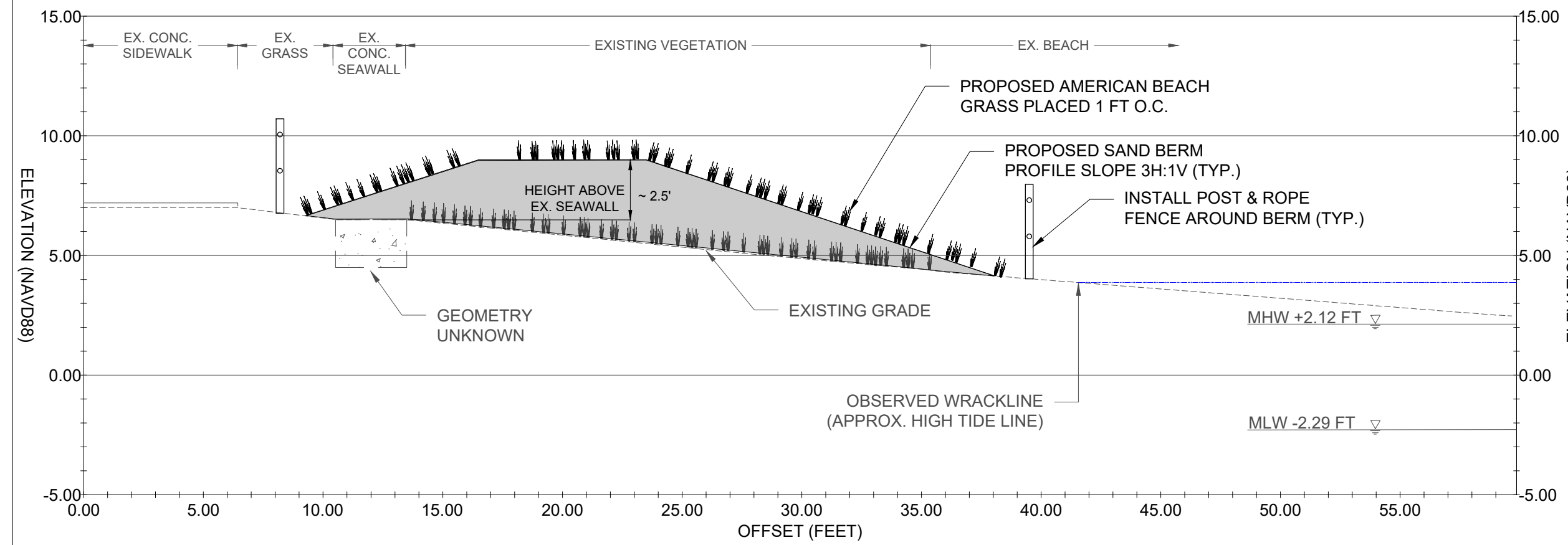
REVISION DESCRIPTION	DATE	BY

CRESCENT PARK SHORELINE PROTECTION
CRESCENT PARK
EAST PROVIDENCE, RHODE ISLAND
TYPICAL SECTIONS

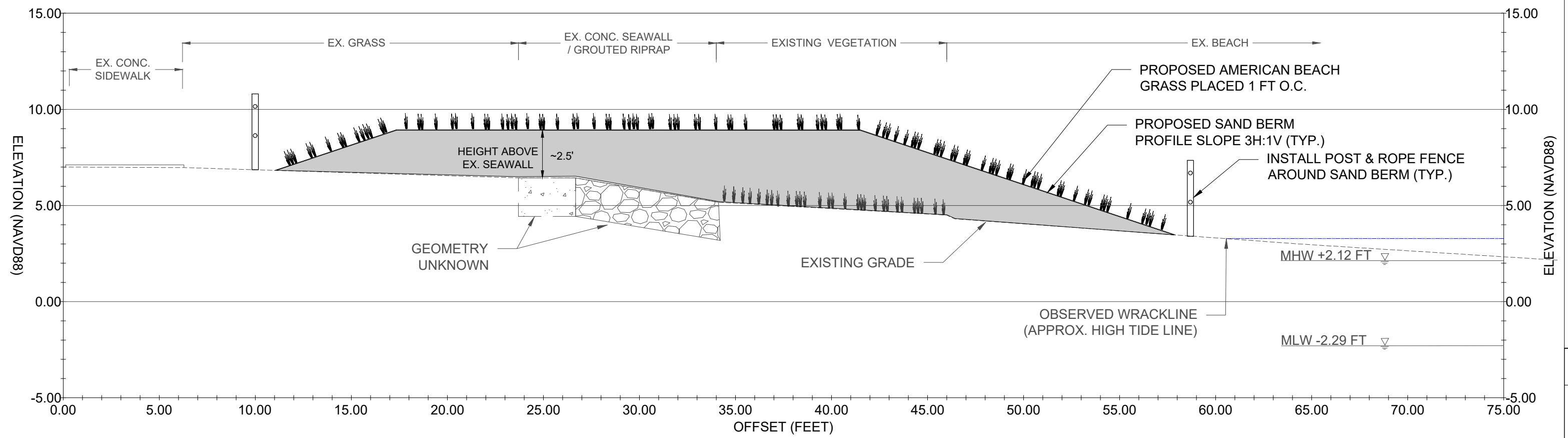
PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE: MAY 22, 2025
DESIGN BY: SMR
DRAWN BY: BMF
CHECKED BY: SMR
PROJECT NUMBER: 22006.00

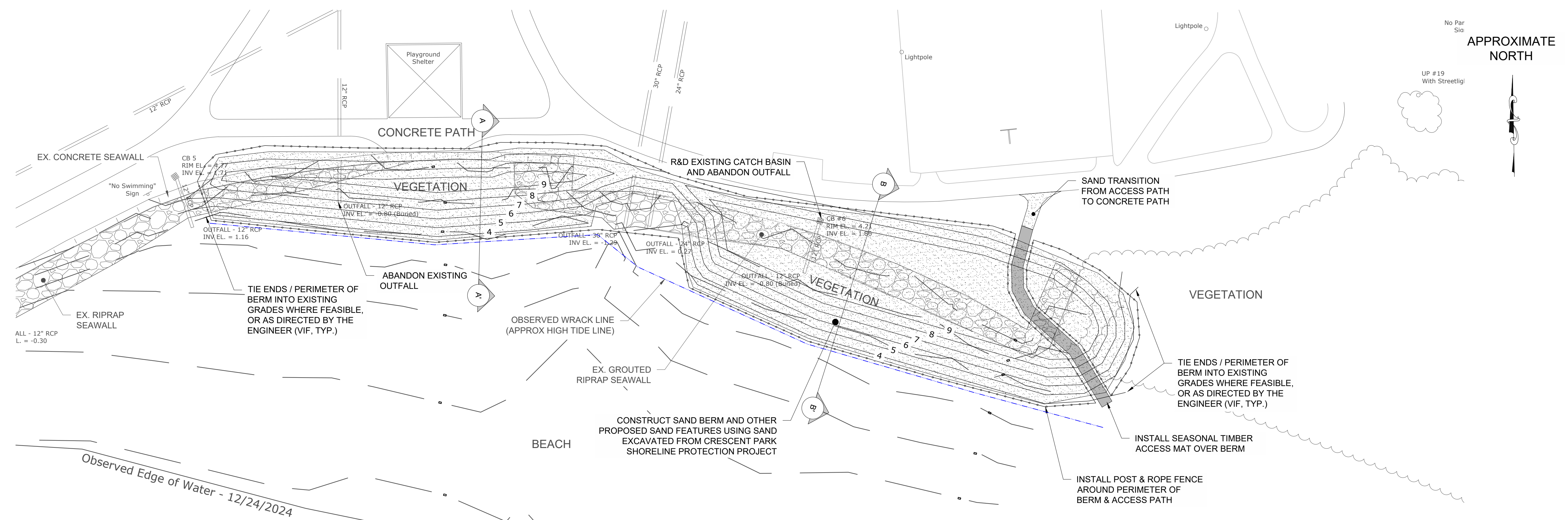
C-4
SHEET 4 OF 5



A-A' SAND BERM SECTION A-A'
C-5 C-5 SCALE: 1" = 5'



B-B' SAND BERM SECTION B-B'
C-5 C-5 SCALE: 1" = 5'

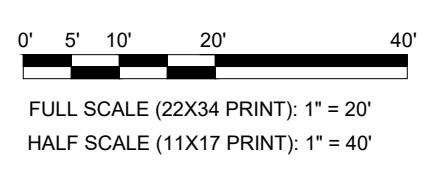
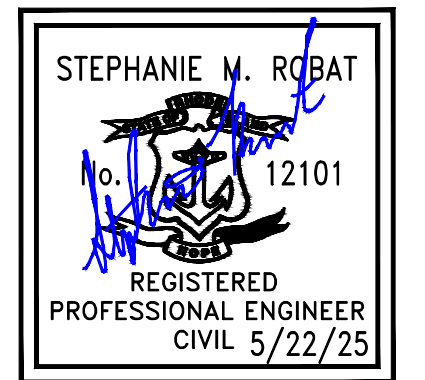


Providence River
Type 2 Water Classification - CRMC

- LEGEND**
- EXISTING 1' MINOR CONTOUR
 - EXISTING 5' MAJOR CONTOUR
 - EXISTING VEGETATION
 - EXISTING SITE FEATURE / STRUCTURE
 - ESTIMATED HIGH TIDE LINE
 - EXISTING RIP RAP
 - PROPOSED POST & ROPE FENCE
 - PROPOSED CONTOUR
 - PROPOSED TIMBER ACCESS PATH
 - PROPOSED SAND BERM / PATH

1 PROPOSED SAND BERM PLAN
C-5 C-5 SCALE: 1" = 20'

- NOTES**
1. THIS PLAN HAS BEEN ISSUED FOR PERMITTING PURPOSES ONLY AND IS NOT CONSIDERED SUFFICIENT FOR CONSTRUCTION.
 2. THIS BASE PLAN WAS DEVELOPED FROM AN EXISTING SURVEY PLAN OF SABIN POINT BY THE CITY OF EAST PROVIDENCE, DATED 11/06/201 AND CAN ONLY REFLECT THE CONDITIONS OF THE SITE AT THAT TIME.
 3. THE WRACKLINE IS BASED ON LIMITED SURVEY INFORMATION OBTAINED BY FR ENGINEERING GROUP ON 12/24/2024 USING AN EMLID REACH RS3 GPS USING RTK CORRECTIONS. INFORMATION SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHODS USED AND REFLECT THE CONDITIONS OF THE SITE AT THE TIME OF THE SURVEY.
 4. ELEVATIONS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



REVISION #	DESCRIPTION	DATE	BY

**CRESCENT PARK SHORELINE PROTECTION
SABIN POINT WATERFRONT PARK
EAST PROVIDENCE, RHODE ISLAND**

**PROPOSED SAND BERM PLAN
& TYPICAL SECTIONS**

PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE: MAY 22, 2025
DESIGN BY: SMR
DRAWN BY: SJR
CHECKED BY: SMR

PROJECT NUMBER: 22006.00

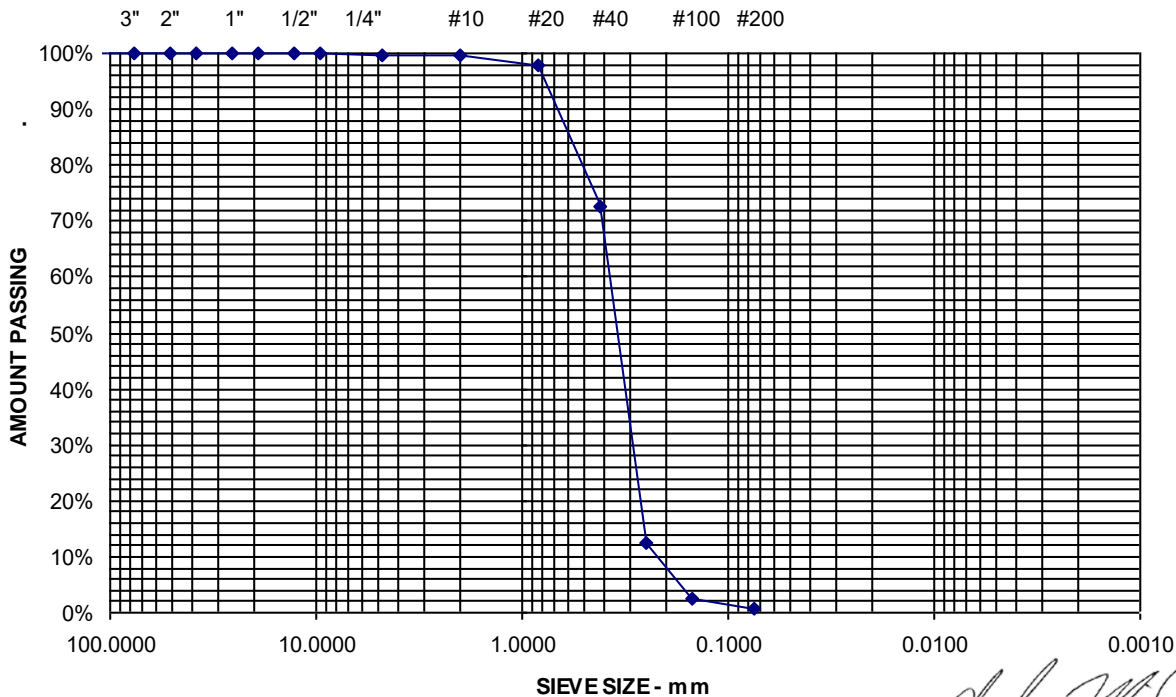
C-5
SHEET 5 OF 5

Project Name RIVERSIDE RI - ROSE LARISA PARK SOUTHERN SHORELINE
PROTECTION - LABORATORY TESTING SERVICES
Client FR ENGINEERING GROUP, INC.
Material Type SAND
Material Source S-1 NORTH GRAB (FREG #22006.00)

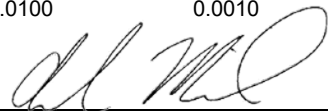
Project Number 24-2479
Lab ID 1727R
Date Received 12/20/2024
Date Completed 12/30/2024
Tested By NATHANIEL MATTHIAS

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>SPECIFICATIONS (%)</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	100	
4.75 mm	No. 4	100	
2.00 mm	No. 10	99	
850 μm	No. 20	98	
425 μm	No. 40	73	
250 μm	No. 60	13	
150 μm	No. 100	3	
75 μm	No. 200	0.6	

Received
5/23/2025
**Coastal Resources
Management Council**



Comments

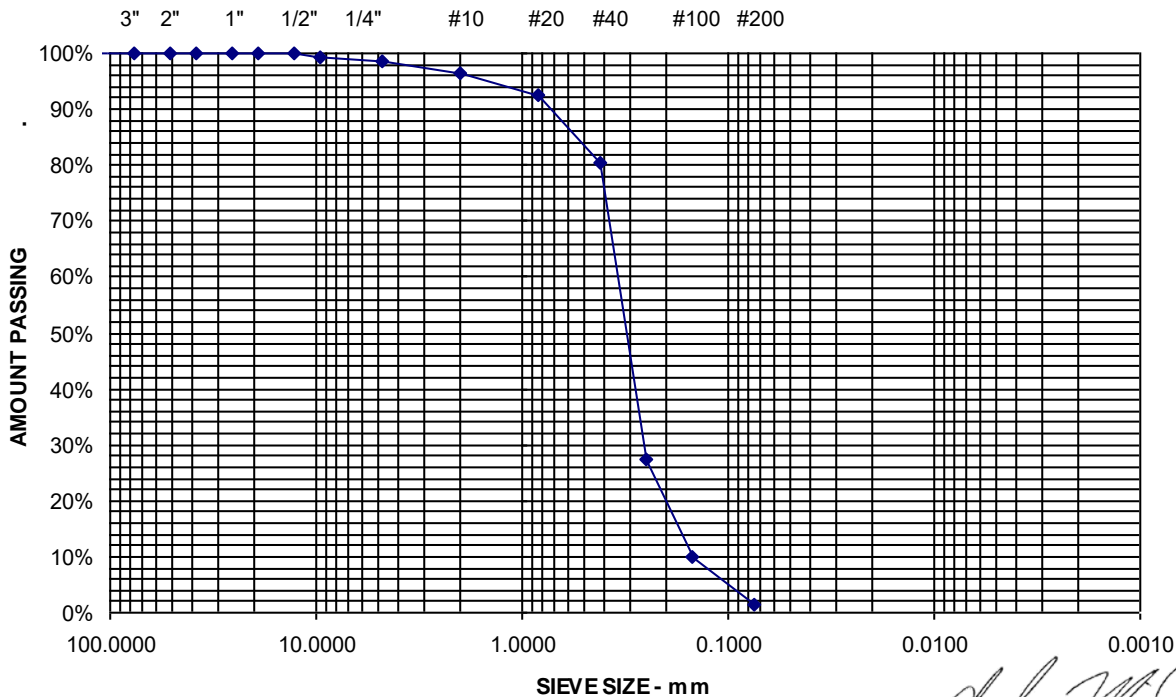


Project Name RIVERSIDE RI - ROSE LARISA PARK SOUTHERN SHORELINE
PROTECTION - LABORATORY TESTING SERVICES
Client FR ENGINEERING GROUP, INC.
Material Type SAND
Material Source S-2 MIDDLE GRAB (FREG #22006.00)

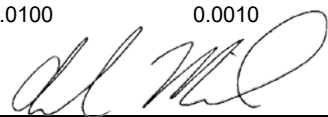
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Lab ID 1728R
Date Received 12/20/2024
Date Completed 12/30/2024
Tested By NATHANIEL MATTHIAS

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150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	99	
4.75 mm	No. 4	99	
2.00 mm	No. 10	97	
850 μm	No. 20	92	
425 μm	No. 40	80	
250 μm	No. 60	28	
150 μm	No. 100	10	
75 μm	No. 200	1.3	

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5/23/2025
**Coastal Resources
Management Council**



Comments

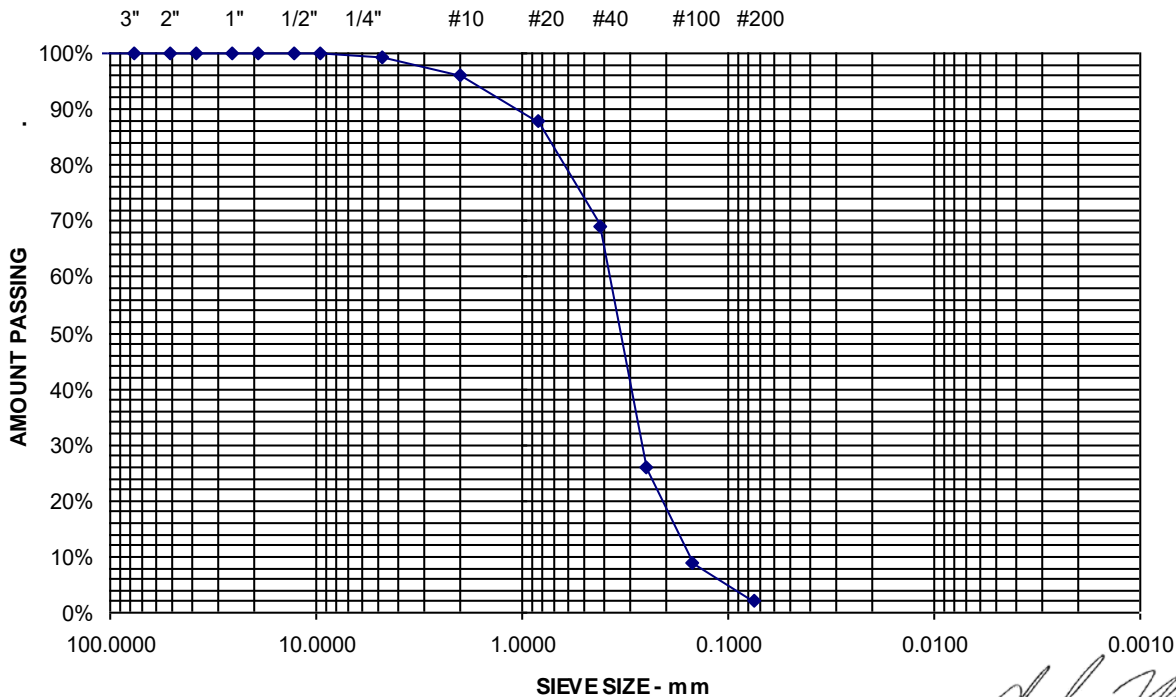


Project Name RIVERSIDE RI - ROSE LARISA PARK SOUTHERN SHORELINE
PROTECTION - LABORATORY TESTING SERVICES
Client FR ENGINEERING GROUP, INC.
Material Type SAND
Material Source S-3 SOUTH GRAB (FREG #22006.00)

Project Number 24-2479
Lab ID 1729R
Date Received 12/20/2024
Date Completed 12/30/2024
Tested By NATHANIEL MATTHIAS

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>SPECIFICATIONS (%)</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	100	
4.75 mm	No. 4	99	
2.00 mm	No. 10	96	
850 μm	No. 20	88	
425 μm	No. 40	69	
250 μm	No. 60	26	
150 μm	No. 100	9	
75 μm	No. 200	2.2	

Received
5/23/2025
**Coastal Resources
Management Council**



Comments

