State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

PUBLIC NOTICE

File Number: 2026-08-010 Date: October 28, 2026

This office has under consideration the application of:

Department of Environmental Management
Division of Planning and Development
235 Promenade Street
Providence, RI 02908

for a State of Rhode Island Assent to construct and maintain structural shoreline protection consisting of 190' of top-dressed existing riprap revetement, 550' of maintained existing riprap revetment, and 1080' of new retreated riprap revetment with pedestrian access to the shore. Two pile supported timber fishing platforms are proposed behind the coastal feature. Additionally, the gravel road and parking area is proposed to be expanded and reconstructed.

Project Location:	West Beach Road
City/Town:	Charlestown
Plat/Lot:	Plat 1, lot 83
Waterway:	Quonochontaug Breachway

Plans of the proposed work can be requested at Cstaff1@crmc.ri.gov.

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter.

You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary, to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing (**with your correct mailing address**, **e-mail address and valid contact number**) and be received at this office on or before **November 28, 2026**.

Please email your comments/hearing requests to: cstaff1@crmc.ri.gov; or mail via USPS to: Coastal Resources Management Council; O. S. Government Center, 4808 Tower Hill Road, Rm 116; Wakefield, RI 02879.

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS

CHARLESTOWN, RHODE ISLAND

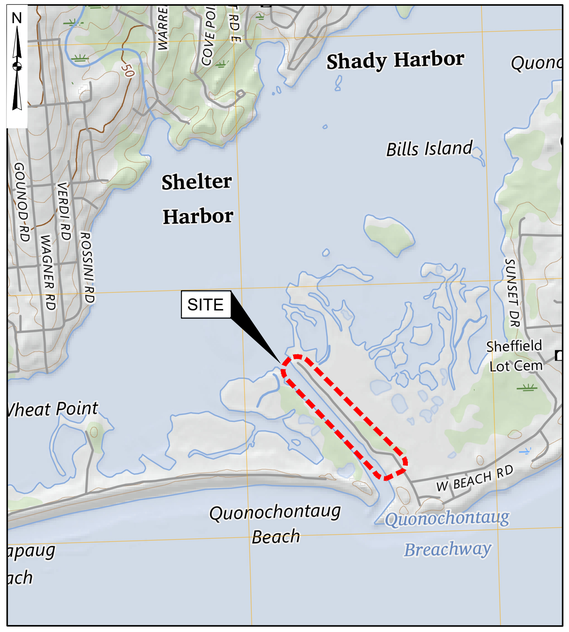
JULY 14, 2026

PREPARED FOR:

RHODE ISLAND DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
235 PROMENADE ST.
PROVIDENCE, RHODE ISLAND

PREPARED BY:

GZA GeoEnvironmental, Inc.
www.gza.com





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PROJECT LOCUS MAP

0 500' 1000' 2000' 3000'
SCALE IN FEET 1" = 1000'

SOURCE: USGSSTORE.GOV
BASE MAP FROM THE FOLLOWING USGS QUADRANGLE MAP:
QUONOCHONTAUG, RHODE ISLAND (2024)
DIGITAL TOPOGRAPHIC MAPS PROVIDED BY USGSSTORE.GOV.

CONTOUR ELEVATIONS REFERENCE NAVD 88,
CONTOURS ARE SHOWN IN FEET AT 10 FOOT INTERVALS

RHODE ISLAND



QUADRANGLE LOCATION

PROJECT VICINITY MAP

0 500' 1000' 2000' 3000'
SCALE IN FEET 1" = 1000'

AERIAL BASE MAP DEVELOPED FROM AN ELECTRONIC IMAGE FILE PROVIDED BY RIGIS AERIAL IMAGERY PUBLISHED IN MARCH 2024.

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

IF SHEET IS LESS THAN (22" x 34")
IT IS A REDUCED PRINT
SCALE REDUCED ACCORDINGLY

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APPROVED:

TODD R. GREENE
No. 8567
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
7/14/2026

G-1
SHEET NO. 1 OF 15

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7/31/2026
COASTAL RESOURCES
MANAGEMENT COUNCIL

RECEIVED
7/31/2026
COASTAL RESOURCES
MANAGEMENT COUNCIL

REFERENCE NOTES

EXISTING CONDITIONS PLAN BASE MAP DEVELOPED FROM THE FOLLOWING:

1. BASEPLAN DEVELOPED FROM AN ELECTRONIC DRAWING FILE, "QUONOCHONTAUG BASE-NOV-15-2024.DWG" DEVELOPED BY BRYANT AND ASSOCIATES.
2. BASE MAP DEVELOPED FROM INTERPRETING FEATURES IN RIGIS AERIAL IMAGERY TAKEN AND PUBLISHED IN SPRING 2019 AND A FIELD SURVEY CONDUCTED BY GZA PERSONNEL ON MARCH 23, 2020. ESTUARINE EMERGENT WETLAND LOCATIONS WERE SUPPLEMENTED USING THE 1988 RIGIS WETLAND DATABASE. LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.
3. BATHYMETRY IN QUONNIE POND IS PARTIALLY BASED ON THE POST-CONSTRUCTION INFORMATION PROVIDED BY RIDEM. GZA USED REFERENCE FILES NAMED "QUONNIE POSTDREDGE_FILL COMPLETE CONTOURS.DXF", "181206 MAIN CHANNEL DESIGN LIMITS.DXF", AND "190104 WESTERN CHANNEL DESIGN LIMITS.DXF.
4. CONTOURS AND TOPOGRAPHY USED TO SUPPLEMENT THE LEICA FIELD SURVEY DATA OBTAINED BY GZA WAS SOURCES FROM RIGIS STATEWIDE GIS DATABASE 2022 LIDAR DATA.
5. SPOT GRADES AROUND REVETMENT LOCATIONS WERE TAKEN USING LEICA ZENO GPS UNIT WITH AN ACCURACY OF 1CM AND SHOULD ONLY BE CONSIDERED ACCURATE TO THE DEGREE IMPLIED BY THE METHOD USED.
6. LEICA FIELD SURVEY INFORMATION DATED JANUARY 16, 2021, PERFORMED BY GZA.
7. FEATURES DELINEATED FROM GOOGLE EARTH PROFESSIONAL AERIAL MAP AND GZA LEICA FIELD SURVEY.
8. SALT MARSH AREA DELINEATED FROM GZA LEICA FIELD SURVEY AND SUPPLEMENTED WITH RIGIS 1988 WETLANDS DATABASE.

GENERAL NOTES

1. THE SITE IS LOCATED IN THE TOWN OF CHARLESTOWN ON WEST BEACH ROAD AP 01 LOT 83.
2. THE OWNER OF AP 01 LOT 83 IS THE STATE OF RHODE ISLAND, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
3. THE PROJECT PROPOSES A DISTURBANCE LIMIT OF APPROXIMATELY 7.04± ACRES.
4. THE SITE IS LOCATED WITHIN FEMA ZONES VE AND ZONE AE. REFERENCE FEMA FLOOD INSURANCE RATE MAP 44009C0278J AND 44009C0279J.
5. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED FOR SERVICE, SIZE, INVERT ELEVATION, LOCATION, ETC. PRIOR TO ANY CONSTRUCTION WORK IN THE VICINITY THEREOF. THE CONTRACTOR MUST NOTIFY DIGSAFE (PHONE NUMBER: 811) AT LEAST 3 FULL WORKING DAYS PRIOR TO ANY CONSTRUCTION. APPROPRIATE MUNICIPAL DEPARTMENTS MUST ALSO BE NOTIFIED. NOTIFY OWNER AND ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINDING, VERIFYING, AND RE-SETTING (IF NECESSARY) CONTROL POINTS AND BENCHMARKS FOR THE WORK OF THE CONTRACT OR OTHERWISE ESTABLISHING THEIR OWN.
7. THE RESPONSIBILITY FOR SAFETY IN, ON, OR ABOUT THE JOBSITE SHALL BE THAT OF THE CONSTRUCTION CONTRACTOR. THESE DRAWINGS DO NOT INCLUDE COMPONENTS WHICH MAY BE NECESSARY FOR CONSTRUCTION SAFETY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, EXCEPT WHERE SPECIFICALLY DETAILED IN THE PLANS. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEQUENCE OF THE WORK, EXCEPT WHERE SPECIFICALLY DETAILED IN THE PLANS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURFACE AND GROUNDWATER CONTROL DURING THE WORK OF THE CONTRACT. TEMPORARY WATER CONTROL MEASURES SHALL BE, AT MINIMUM, AS REQUIRED BY THE PROJECT PLANS, SPECIFICATIONS, AND PERMIT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL MEASURES NECESSARY FOR WATER CONTROL NECESSARY TO EXECUTE THE WORK OF THE CONTRACT "IN THE DRY". WATER CONTROL MEASURES ARE SUBJECT TO SPECIFIC LIMITS AND CONDITIONS AS MAY BE SHOWN ON THE PLANS.
10. ACCESS TO THE SITE SHALL BE FROM W. BEACH ROAD. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION AS PER THE PLANS AND SPECIFICATIONS. WHERE NO SPECIFIC INSTRUCTION IS GIVEN, RESTORATION SHALL BE TO THE ORIGINAL CONDITION OR BETTER AND AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR IS SPECIFICALLY INFORMED THAT THE RESTORATION REQUIREMENT APPLIES TO ALL AREAS DISTURBED AS A RESULT OF THE PROJECT, INCLUDING ACCESS ROADS.
11. SPECIFIC AREAS HAS BEEN DESIGNATED AND DELINEATED ON THE PLANS AS A CONTRACTOR STAGING AREAS. THE CONTRACTOR SHALL USE THESE AREAS AND THESE AREAS ONLY FOR ON-SITE PARKING, OFFICE TRAILERS (IF NECESSARY), EQUIPMENT AND MATERIAL STORAGE, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY SIGNAGE, FENCING, SAFETY, SEDIMENT/EROSION CONTROL, IMPROVEMENTS, RESTORATIONS, ETC. IN THESE AREAS. AREAS WITHIN THE LIMITS OF THE WORK MAY BE USED FOR TEMPORARY STORAGE, HAUL ROADS, PARKING, ETC.; HOWEVER, NO ADDITIONAL CONSIDERATIONS OR PAYMENT WILL BE MADE FOR WORK NECESSARY TO RE-GRADE AND RESTORE SUCH AREAS TO PRE-CONSTRUCTION CONDITIONS OR RELOCATE ANY MATERIALS OR EQUIPMENT TEMPORARILY STORED WITHIN THE LIMITS OF THE WORK. IF THE CONTRACTOR REQUIRES AND IDENTIFIES ADDITIONAL STAGING AREAS ON THE OWNER'S PROPERTY, THE CONTRACTOR SHALL MAKE A WRITTEN REQUEST TO THE OWNER AND ENGINEER DESCRIBING THE NEED AND LOCATION OF THE PROPOSED AREA. NO GUARANTEE IS MADE THAT ADDITIONAL STAGING AREAS WILL BE MADE AVAILABLE.
12. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL DEVELOP, SUBMIT, AND MAINTAIN AN EMERGENCY CONTACT LIST WITH NAMES AND PHONE NUMBERS (DAY AND NIGHT) OF ALL KEY PERSONNEL INVOLVED WITH THE PROJECT. THE LIST SHALL SPECIFICALLY INCLUDE THE PERSON FROM THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR ENVIRONMENTAL COMPLIANCE. THE LIST SHALL BE PROVIDED TO THE OWNER, ENGINEER, AND RIDEM AND UPDATED AS NEEDED.
13. THE CONTRACTOR IS RESPONSIBLE FOR ALL PENALTIES AND DELAYS DUE TO NON-COMPLIANCE WITH PERMIT CONDITIONS.
14. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.

WATER CONTROL NOTES

1. TEMPORARY WATER CONTROL BY THE CONTRACTOR SHALL BE PERFORMED AS SPECIFIED IN THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY WATER CONTROL, SURFACE WATER AND GROUNDWATER CONTROL, NECESSARY TO EXECUTE AND COMPLETE THE WORK OF THE CONTRACT SUBJECT TO THE RESTRICTIONS CONTAINED IN THE CONTRACT AND PROJECT PERMITS. CONTROLS SHOWN IN THE CONTRACT DRAWINGS SHALL BE CONSIDERED MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL EMPLOY WHATEVER SUPPLEMENTARY MEASURES NECESSARY TO PROTECT THE SITE AND THE WORK.
3. ALL TEMPORARY WATER CONTROL MEASURES SHALL BE IMPLEMENTED IN CONJUNCTION WITH APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES SO AS TO MINIMIZE TO THE GREATEST EXTENT POSSIBLE RELEASE OF SEDIMENT INTO WATER BODIES AND POTENTIAL EROSION OF SOIL.
4. ANY TEMPORARY PUMPS USED AT THE SITE MUST BE PROPERLY BAFFLED AGAINST EXCESSIVE NOISE. PUMPS OR GENERATORS WHICH USE LIQUID FUEL MUST BE PLACED WITHIN AN IMPERMEABLE SECONDARY CONTAINMENT AREA WITH SUFFICIENT CAPACITY TO CONTAIN THE FULL VOLUME OF THE FUEL TANK.
5. WATER PUMPED FROM THE EXCAVATIONS MUST BE PASSED THROUGH A PUMPED WATER FILTER BAG OR OTHER SUCH BEST MANAGEMENT PRACTICE FEATURE PRIOR TO BEING DISCHARGED BACK TO A WATER BODY. DISCHARGE WATER SHALL MEET APPROPRIATE WATER QUALITY STANDARDS.
6. PUMPED WATER DISCHARGE AREAS MUST BE PROPERLY PROTECTED TO PREVENT EROSION BY HIGH VELOCITY FLOW.

MATERIAL NOTES:

1. MATERIAL AND PRODUCT REQUIREMENTS, WHERE REFERENCED AS RIDOT, THE REQUIREMENT REFERS TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN "BLUE BOOK", LATEST EDITION.

GRAVEL BORROW: M.01.02.1

CRUSHED STONE: M.01.06

COMMON FILL: M.01.01

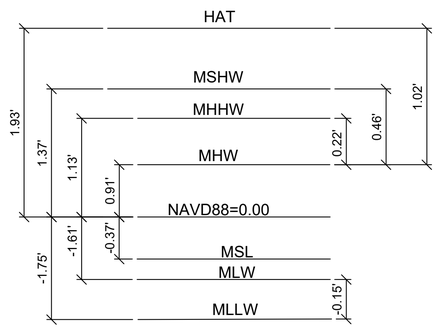
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FILTER FABRIC: NON-WOVEN FABRIC, INERT TO UV LIGHT, EQUAL IN PROPERTIES TO MIRAFI 180N OR APPROVED EQUAL

2. ANY PROPRIETARY PRODUCT(S) REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS IT IS PROPOSED TO SERVE. ALTERNATIVES TO ANY PROPRIETARY PRODUCT(S) MAY BE SUBMITTED TO THE ENGINEER OF RECORD AND RIDEM FOR CONSIDERATION, THESE MUST BE ACCOMPANIED BY APPROPRIATE SPECIFICATION SHEETS / ANY DESIGN CALCULATIONS THAT DEMONSTRATE THE ALTERNATIVE(S) MEET THE MINIMUM DESIGN PARAMETERS OF THE PRODUCT SHOWN ON THE PLANS. NO ALTERNATIVES MAY BE USED WITHOUT WRITTEN PERMISSION OF THE ENGINEER OF RECORD OR RIDEM

EROSION AND SEDIMENTATION CONTROL

1. TEMPORARY CONTROL OF EROSION AND SEDIMENT DISCHARGE IS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT AND UNTIL PROPOSED STABILIZATION IS ACHIEVED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE AREAS WITHIN THE LIMITS OF WORK AND BEYOND FROM SEDIMENT AND/OR POLLUTANTS ORIGINATING FROM ANY WORK DONE ON OR IN SUPPORT OF THE PROJECT, INCLUDING SEDIMENT DUE TO EROSION FROM STORMWATER RUNOFF.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES NECESSARY TO EXECUTE AND COMPLETE THE WORK OF THE CONTRACT, IN COMPLIANCE WITH THE TERMS AND CONDITIONS CONTAINED IN THE CONTRACT, PROJECT PERMITS AND ALL STATE AND LOCAL ORDINANCES THAT APPLY. CONTROLS SHOWN ON THE CONTRACT DRAWINGS SHALL BE CONSIDERED MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL EMPLOY WHATEVER SUPPLEMENTARY MEASURES NECESSARY TO PROTECT WATER, AND ADJACENT AREAS FROM DISTURBANCE OR DISCHARGE OF SEDIMENTS.
3. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT MIGRATION INTO WATER BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, CONCRETE, OR ANY OTHER POLLUTANTS ASSOCIATED WITH CONSTRUCTION PROCEDURES.
4. ACTUAL LOCATION OF EROSION CONTROLS AND BEST MANAGEMENT PRACTICES (BMP) MAY VARY DUE TO FIELD CHANGES, ONGOING CONSTRUCTION, ACCESS NEEDS, WEATHER, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THESE CHANGES AND ADJUSTING EROSION CONTROLS AND BMP LOCATIONS ACCORDINGLY. IN PARTICULAR, THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND RELOCATION OF BMPS WITH PROJECT PHASING, AS NECESSARY.
5. ALL EROSION CONTROLS AND BMPS SHALL REMAIN IN PLACE, EXCEPT AS OTHERWISE NECESSARY, UNTIL CONSTRUCTION IS COMPLETED AND PROPOSED STABILIZATION IS ACHIEVED. ALL CONTROLS AND BMPS SHALL BE SUBJECT TO INSPECTION BY THE OWNER AND THEIR REPRESENTATIVE AT ANYTIME THEREAFTER.
6. ADDITIONAL EROSION CONTROL BARRIERS SHALL BE INSTALLED AT THE DIRECTION OF THE ENGINEER TO MINIMIZE THE THREAT OF ADVERSE IMPACT DURING THE CONSTRUCTION PROCESS. AN ADEQUATE SUPPLY OF REPLACEMENT EROSION CONTROL BARRIERS WILL BE AVAILABLE ON-SITE FOR EMERGENCY PURPOSES.
7. PERIODIC INSPECTION, MAINTENANCE, AND CLEANING OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND BMPS ARE REQUIRED. ALL CONTROLS AND BMPS SHALL BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF RAINFALL EVENTS OF 0.5 INCHES OR GREATER. ROUTINE INSPECTION AND MAINTENANCE WILL REDUCE THE CHANCE OF POLLUTING STORMWATER BY FINDING AND CORRECTING PROBLEMS BEFORE THE NEXT RAIN EVENT. THE CONTRACTOR WILL BE REQUIRED TO KEEP A WRITTEN, UPDATED SITE MAINTENANCE LOG DOCUMENTING INSPECTION AND MAINTENANCE ACTIVITY.



DATUM RELATIONSHIP
NOT TO SCALE

NOTE:
TIDAL ELEVATIONS ARE REFERENCED TO NOAA TIDAL DISK BENCHMARK 8458022, WEEKAPAUG POINT, BLOCK ISLAND SOUND

SURVEY AND PROJECT DATUM:

1. ALL ELEVATIONS SHOWN ON PLANS ARE IN U.S. FEET AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. COORDINATES ARE BASED ON NORTH AMERICAN DATUM OF 1983 (NAD83), RHODE ISLAND STATE PLANE. EASTERN ZONE, U.S. FEET (RI83-EF).
3. CONTRACTOR SHALL MAINTAIN ADEQUATE SURVEY CONTROL AT ALL TIMES TO ESTABLISH AND MAINTAIN ALL LINES AND ELEVATIONS.

LEGEND

- EXISTING CONTOURS (MAJOR)
- EXISTING CONTOURS (MINOR)
- PROPOSED CONTOURS
- APPROXIMATE ADJACENT PROPERTY BOUNDARY
- APPROXIMATE SITE PROPERTY BOUNDARY
- EXISTING MEAN HIGH WATER (EL. 0.91')
- EXISTING MEAN LOW WATER (EL. -1.61')
- EXISTING HIGH TIDE LINE (EL. 1.93')
- PROPOSED MEAN HIGH WATER (EL. 0.91')
- PROPOSED MEAN LOW WATER (EL. -1.61')
- PROPOSED HIGH TIDE LINE (EL. 1.93')
- CONSTRUCTION/DISTURBANCE AREA PHASING LIMITS
- FILTRATION SOCK
- LIMIT OF DISTURBANCE
- EXISTING EDGE OF RIPRAP REVETMENT
- VEGETATION LINE
- EXISTING BUILDING
- EXISTING GRAVEL ROAD
- EXISTING INTERTIDAL SANDY BEACH
- EXISTING LIMITS OF RIPRAP REVETMENT
- EXISTING ASPHALT
- EXISTING ESTUARINE EMERGENT WETLANDS
- EXISTING MARSH
- PROPOSED GRAVEL ROAD
- APPROXIMATE LIMITS OF CLEARING
- PROPOSED LAYDOWN AREA
- PROPOSED COASTAL SHRUBLAND RESTORATION AREA
- PROPOSED REVETMENT RESTORATION
- PROPOSED FLAT TOP REVETMENT
- GRASS LAWN RESTORATION
- PROPOSED CRUSHED STONE
- PROPOSED GRAVEL DIAPHRAGM
- EXISTING SIGN
- EXISTING BOULDER
- PROPOSED BOULDER
- X.XX PROPOSED SPOT GRADE
- PROPOSED CONCRETE CURB WEIR
- PROPOSED SIGN
- PROPOSED TIMBER PILE
- PROPOSED TIMBER ACCESSIBLE FISHING PLATFORM

ABBREVIATIONS AND ACRONYMS

DIA.	DIAMETER
DL.	DESIGN LINE
EL.	ELEVATION
HASP	HEALTH AND SAFETY PLAN
HTL	HIGH TIDE LINE
INV.	INVERT
MHHW	MEAN HIGH, HIGH WATER
MHW	MEAN HIGH WATER
MIN.	MINIMUM
MLLW	MEAN LOW, LOW WATER
MLW	MEAN LOW WATER
N / F	NON OR FORMERLY
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
OHW	OVERHEAD WIRES
STA.	STATION
TYP.	TYPICAL
USCG	UNITED STATES COAST GUARD

NO.	ISSUE/DESCRIPTION	BY	DATE

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APPROVED:

TODD R. GREENE
No. 8567
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
7/31/2026

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

NOTES AND LEGEND

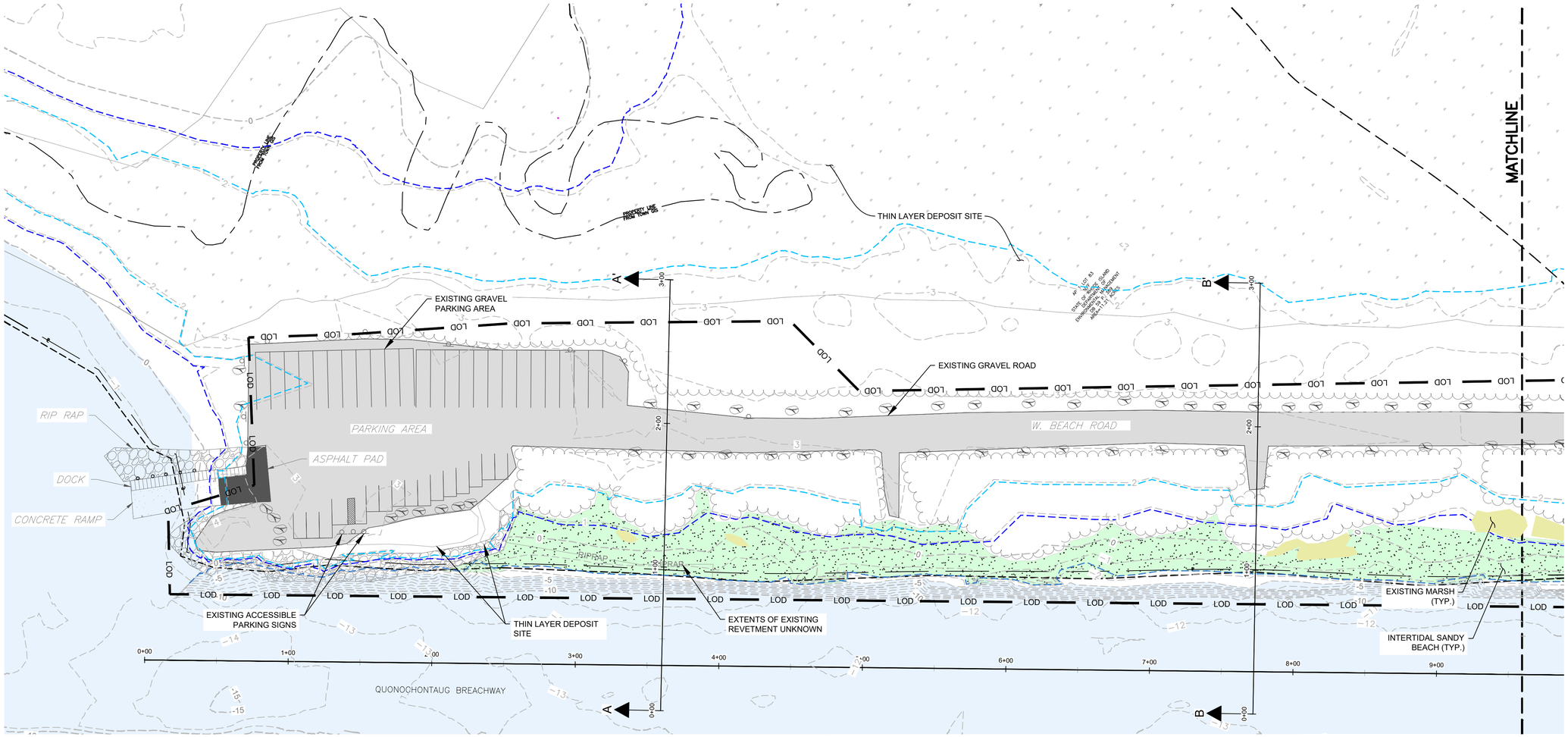
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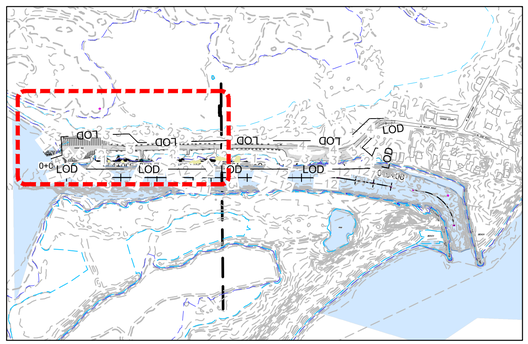
PREPARED FOR:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PROJ MGR: KBN	REVIEWED BY: TRG	CONSULT REV: RJM	DRAWING
DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	G-2
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 2 OF 15

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G:\ACAD\NEW ENGLAND\RHODE ISLAND\QUONNIE DRAWINGS LOCAL\CRMC RIDEM PERMIT SET\PLANS\2-NOTES AND LEGEND.DWG 2 July 13, 2026 CATHERINE ROUSSEAU

RECEIVED
7/31/2026
COASTAL RESOURCES MANAGEMENT COUNCIL





KEY PLAN
NOT TO SCALE

GENERAL NOTES:

1. BASEPLAN DEVELOPED FROM AN ELECTRONIC DRAWING FILE, "QUONOCHONTAUG BASE-NOV-15-2024.DWG" DEVELOPED BY BRYANT AND ASSOCIATES.
2. ELEVATION DATA DEVELOPED FROM SURVEYS PERFORMED BY GZA PERSONNEL BETWEEN JANUARY 15TH AND 18TH, 2021 AND NOVEMBER 12TH, 2025.
   a. ELEVATION DATA BEYOND THE LIMITS OF THE SURVEY ARE BASED ON LIDAR DATA DEVELOPED 2022.
3. MEAN TIDE VALUES WERE REFERENCED FROM NOAA TIDAL DISK BENCHMARK 8455022.
4. ALL ELEVATIONS ARE IN NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE ADJACENT PROPERTY BOUNDARY
- LOD — LIMIT OF DISTURBANCE
- RIPRAP — EXISTING EDGE OF RIPRAP REVETMENT
- VEGETATION LINE
- EXISTING MEAN HIGH WATER (EL. 0.91')
- EXISTING MEAN LOW WATER (EL. -1.61')
- EXISTING HIGH TIDE LINE (EL. 1.93')
- EXISTING INTERTIDAL SANDY BEACH
- EXISTING ESTUARINE EMERGENT WETLANDS
- EXISTING MARSH
- EXISTING BUILDING
- EXISTING GRAVEL ROAD
- EXISTING LIMITS OF RIPRAP REVETMENT
- EXISTING ASPHALT
- EXISTING SIGN
- EXISTING BOULDER

N

0 20' 40' 80' 120'
SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

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QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

EXISTING CONDITIONS PLAN (SHEET 1 OF 2)

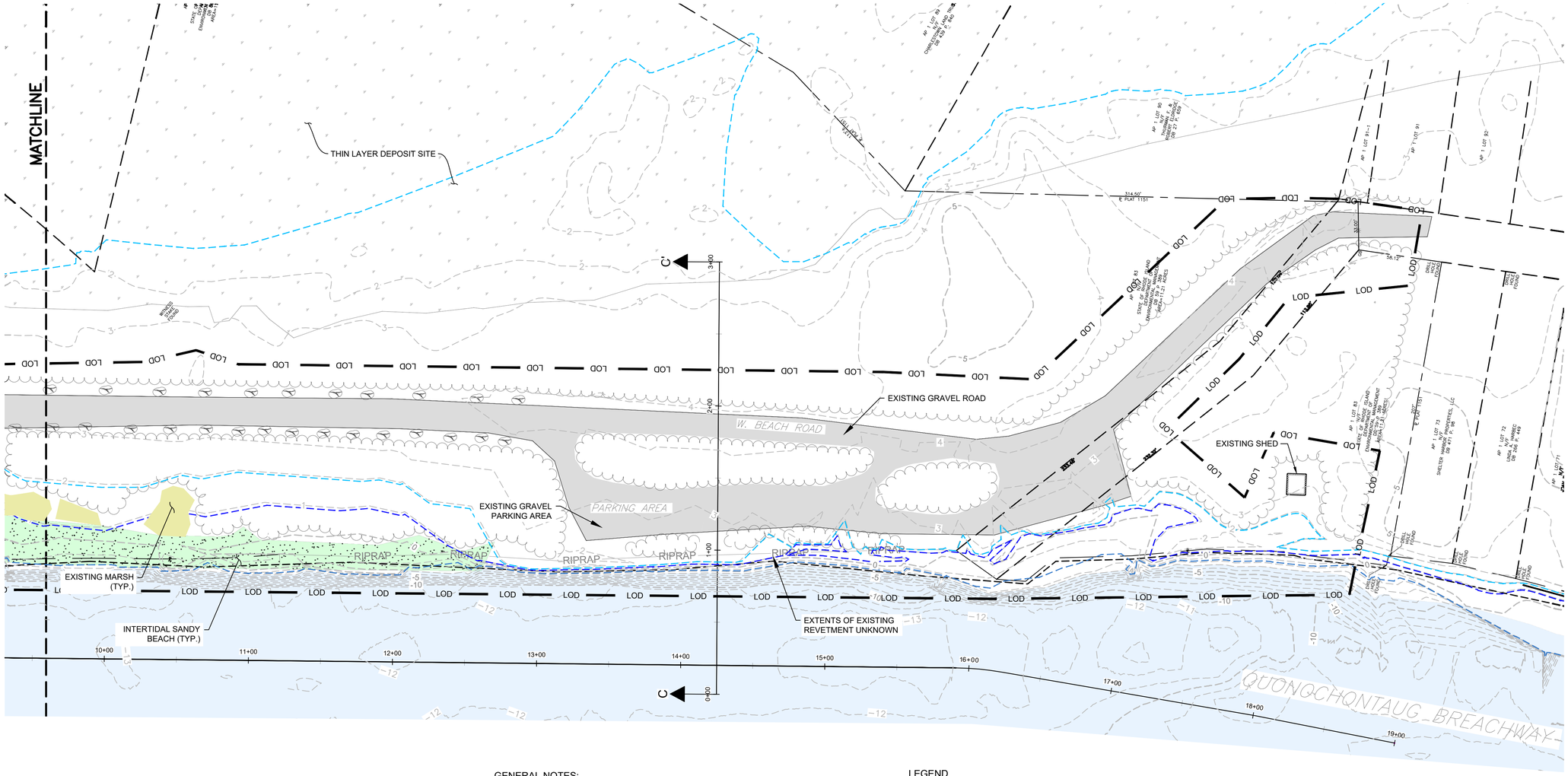
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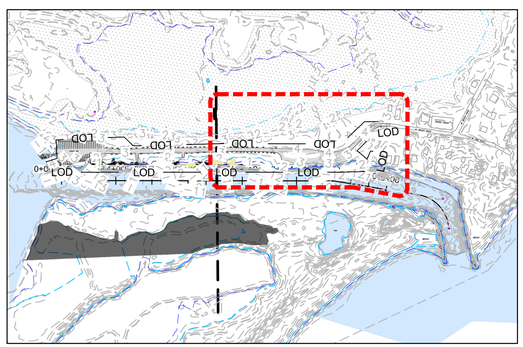
PREPARED FOR:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PROJ MGR: KBN	REVIEWED BY: TRG	CONSULT REV: RJM	DRAWING C-1
DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 3 OF 15

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GZA-12\CHEDWE-1\GZA\DESKTOP\QUONNIE DRAWINGS LOCAL\CRMC RIDEM PERMIT SET\PLANS\3-4_EXISTING CONDITIONS.DWG 3 July 13, 2026 CATHERINE ROUSSEAU

RECEIVED
7/31/2026
COASTAL RESOURCES MANAGEMENT COUNCIL





KEY PLAN
NOT TO SCALE

GENERAL NOTES:

1. BASEPLAN DEVELOPED FROM AN ELECTRONIC DRAWING FILE, "QUONOCHONTAUG BASE-NOV-15-2024.DWG" DEVELOPED BY BRYANT AND ASSOCIATES.
2. ELEVATION DATA DEVELOPED FROM SURVEYS PERFORMED BY GZA PERSONNEL BETWEEN JANUARY 15TH AND 18TH, 2021 AND NOVEMBER 12TH, 2025.
   a. ELEVATION DATA BEYOND THE LIMITS OF THE SURVEY ARE BASED ON LIDAR DATA DEVELOPED 2022.
3. MEAN TIDE VALUES WERE REFERENCED FROM NOAA TIDAL DISK BENCHMARK 8455022.
4. ALL ELEVATIONS ARE IN NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE ADJACENT PROPERTY BOUNDARY
- LIMIT OF DISTURBANCE
- EXISTING EDGE OF RIPRAP REVETMENT
- VEGETATION LINE
- EXISTING MEAN HIGH WATER (EL. 0.91')
- EXISTING MEAN LOW WATER (EL. -1.61')
- EXISTING HIGH TIDE LINE (EL. 1.93')
- EXISTING INTERTIDAL SANDY BEACH
- EXISTING ESTUARINE EMERGENT WETLANDS
- EXISTING MARSH
- EXISTING BUILDING
- EXISTING GRAVEL ROAD
- EXISTING LIMITS OF RIPRAP REVETMENT
- EXISTING SIGN
- EXISTING BOULDER

0 20' 40' 80' 120'
SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

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APPROVED:

TODD R. GREENE
No. 8567
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
7/31/2026

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

EXISTING CONDITIONS PLAN (SHEET 2 OF 2)

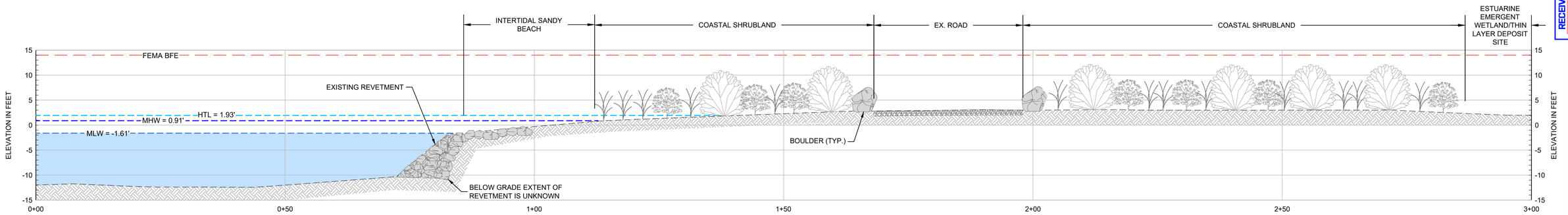
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PREPARED FOR:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

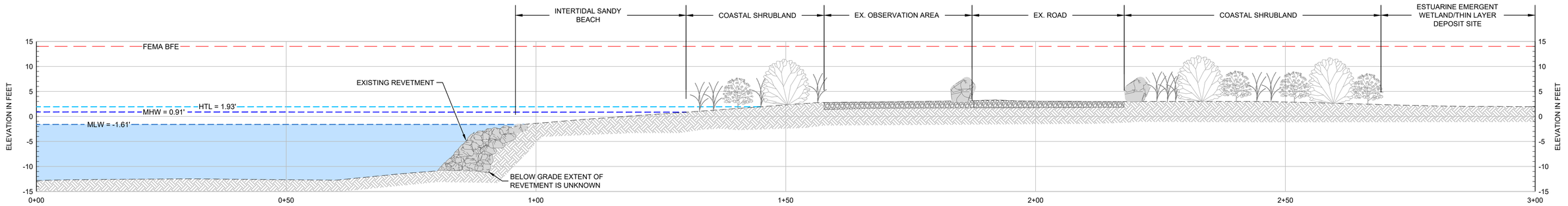
PROJ MGR: KBN	REVIEWED BY: TRG	CONSULT REV: RJM	DRAWING C-2
DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 4 OF 15

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G:\ZA-DS\ONEDRIVE - GZA\DESKTOP\QUONNIE DRAWINGS LOCAL\CRMC RIREM PERMIT SET\PLANS\3-4_EXISTING CONDITIONS.DWG 4 July 13, 2026 CATHERINE ROUSSEAU

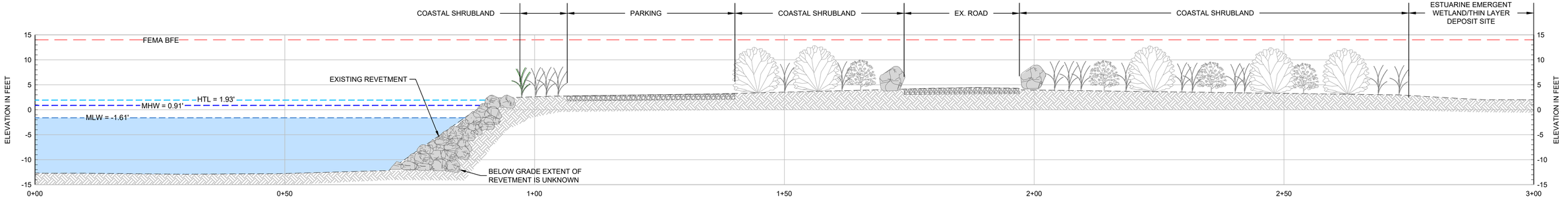
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7/31/2026
COASTAL RESOURCES MANAGEMENT COUNCIL



PROFILE A



PROFILE B



PROFILE C

0 5' 10' 20' 30'
SCALE IN FEET 1" = 10'

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APPROVED:

TODD R. GREENE
No. 8567
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
7/14/2026

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

EXISTING CONDITIONS PROFILES

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PROJ MGR: KBN	REVIEWED BY: TRG	CONSULT REV: RJM	DRAWING
DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	C-3
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 5 OF 15

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G:\24-D\...\DRAWINGS LOCAL\ORMC RISEM PERMIT SET\PLANS\5-EXISTING PROFILES.DWG 5 July 13, 2026 CATHERINE ROUSSEAU

RECEIVED
7/31/2026
COASTAL RESOURCES MANAGEMENT COUNCIL

MATCHLINE

APPROXIMATE LIMITS OF CLEARING (TYP.)

APPROXIMATE LIMITS OF DISTURBANCE AREA PHASE 2

APPROXIMATE LIMITS OF DISTURBANCE AREA PHASE 1

EXISTING VEGETATION TO REMAIN

FILTRATION SOCK (TYP.)

EXISTING VEGETATION TO REMAIN

EXISTING VEGETATION TO REMAIN

RIP RAP

DOCK

CONCRETE RAMP

ASPHALT PAD

PARKING AREA

W. BEACH ROAD

RIPRAP

RIPRAP

QUONOCHONTAUG BREACHWAY

PROPERTY LINE FROM TOWN GIS

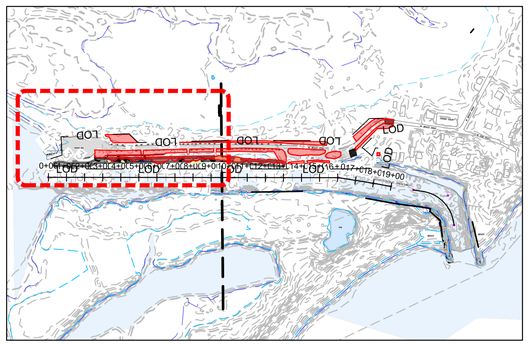
PROPERTY LINE FROM TOWN GIS

AP 1 LOT 83
STATE OF RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MONUMENT
AREA 17.11

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00

N

0 20' 40' 80' 120'
SCALE IN FEET 1" = 40'



KEY PLAN
NOT TO SCALE

GENERAL NOTES:

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LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE ADJACENT PROPERTY BOUNDARY
- LIMIT OF DISTURBANCE
- EXISTING EDGE OF RIPRAP REVETMENT
- VEGETATION LINE
- EXISTING MEAN HIGH WATER (EL. 0.91')
- EXISTING MEAN LOW WATER (EL. -1.61')
- EXISTING HIGH TIDE LINE (EL. 1.93')
- CONSTRUCTION/DISTURBANCE AREA PHASING LIMITS
- FILTRATION SOCK
- APPROXIMATE LIMITS OF CLEARING

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APPROVED:

TODD R. GREENE
No. 8567
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
7/14/2026

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QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

TEMPORARY SITE CONTROLS AND DEMOLITION PLAN (SHEET 1 OF 2)

PREPARED BY:
GZA GeoEnvironmental, Inc.
www.gza.com

PREPARED FOR:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PROJ MGR: KBN	REVIEWED BY: TRG	CONSULT REV: RJM	DRAWING C-4
DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 6 OF 15

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G:\ACAD\CIVIL - GZA\DESKTOP\QUONNIE DRAWINGS LOCAL\CRMC RIDEM PERMIT SET\PLANS\6-7_TEMP SITE CONTROLS PLAN.DWG 6 July 14, 2026 CATHERINE ROUSSEAU

RECEIVED
7/31/2026
COASTAL RESOURCES MANAGEMENT COUNCIL

MATCHLINE

APPROXIMATE LIMITS OF CLEARING (TYP.)

EXISTING VEGETATION TO REMAIN

FILTRATION SOCK (TYP.)

W. BEACH ROAD

PARKING AREA

RIPRAP

APPROXIMATE LIMITS OF DISTURBANCE AREA PHASE 1

APPROXIMATE LIMITS OF DISTURBANCE AREA PHASE 2

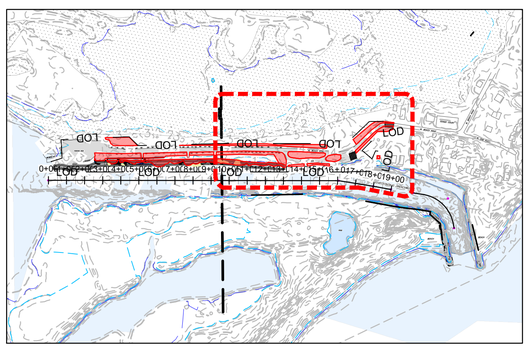
CONSTRUCTION ENTRANCE

REMOVE AND DISPOSE EXISTING SHED

PROPOSED LAYDOWN AREA

QUONOCHONTAUG BREACHWAY

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00



KEY PLAN
NOT TO SCALE

LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE ADJACENT PROPERTY BOUNDARY
- LOD — LIMIT OF DISTURBANCE
- RIPRAP — EXISTING BREACHWAY WALL
- VEGETATION LINE
- MEAN HIGH WATER (EL. 0.91)
- MEAN LOW WATER (EL. -1.61')
- HIGH TIDE LINE (EL. 1.93')
- CONSTRUCTION/DISTURBANCE AREA PHASING LIMITS
- (-) (-) — FILTRATION SOCK
- APPROXIMATE LIMITS OF CLEARING
- PROPOSED LAYDOWN AREA

GENERAL NOTES:

1. BASEPLAN DEVELOPED FROM AN ELECTRONIC DRAWING FILE, "QUONOCHONTAUG BASE-NOV-15-2024.DWG" DEVELOPED BY BRYANT AND ASSOCIATES.
2. ELEVATION DATA DEVELOPED FROM SURVEYS PERFORMED BY GZA PERSONNEL BETWEEN JANUARY 15TH AND 18TH, 2021 AND NOVEMBER 12TH, 2025.
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4. ALL ELEVATIONS ARE IN NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

0 20' 40' 80' 120'
SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

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APPROVED:

TODD R. GREENE
No. 8567
REGISTERED PROFESSIONAL ENGINEER
CIVIL
7/31/2026

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

TEMPORARY SITE CONTROLS AND DEMOLITION PLAN (SHEET 2 OF 2)

PREPARED BY:
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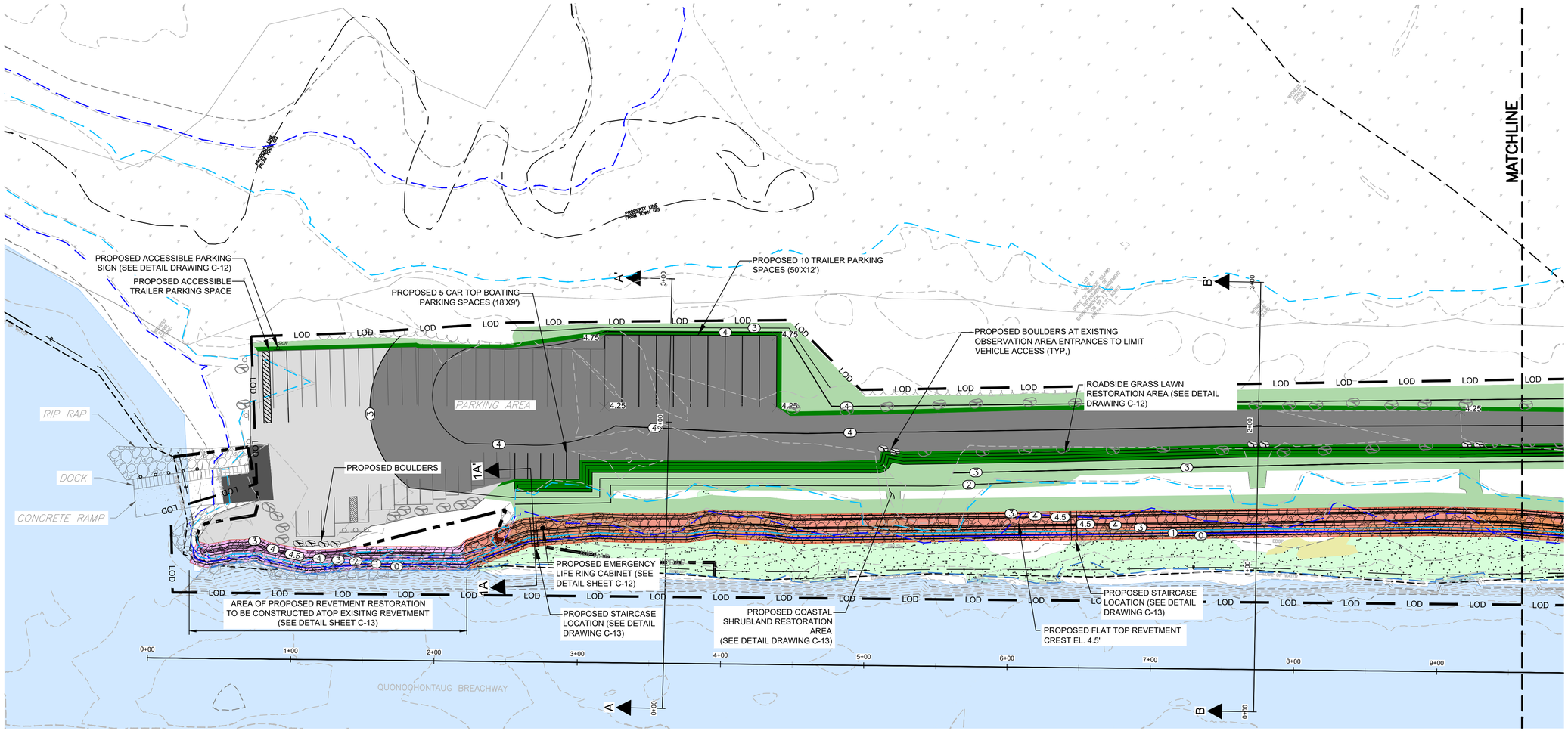
PREPARED FOR:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

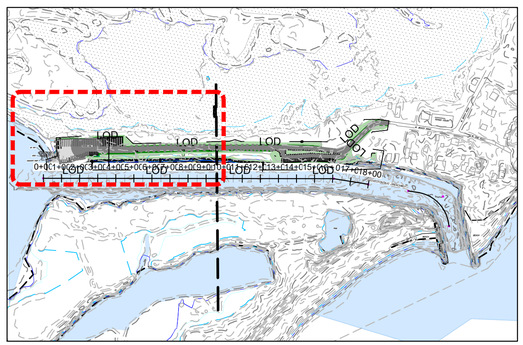
PROJ MGR: KBN	REVIEWED BY: TRG	CONSULT REV: RJM	DRAWING C-5
DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 7 OF 15

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G:\24-0\VNEWVE~1\GZA\DESKTOP\QUONNE DRAWINGS LOCAL\CRMC RIDEM PERMIT SET\PLANS\6-7_TEMP SITE CONTROLS PLAN.DWG 7 July 14, 2026 CATHERINE ROUSSEAU

RECEIVED
7/31/2026
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NORTHERN PARKING STALL COUNT	
EXISTING VEHICLE PARKING STALLS	14
EXISTING ACCESSIBLE PARKING STALLS	2
PROPOSED VEHICLE PARKING STALLS	19
EXISTING TRAILER PARKING STALLS	24
PROPOSED TRAILER PARKING STALLS	32
PROPOSED ACCESSIBLE TRAILER PARKING STALLS	1





KEY PLAN
NOT TO SCALE

LEGEND

- PROPOSED CONTOURS
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE ADJACENT PROPERTY BOUNDARY
- LIMIT OF DISTURBANCE
- EXISTING MEAN HIGH WATER (EL. 0.91')
- EXISTING MEAN LOW WATER (EL. -1.61')
- EXISTING HIGH TIDE LINE (EL. 1.93')
- PROPOSED MEAN HIGH WATER (EL. 0.91')
- PROPOSED MEAN LOW WATER (EL. -1.61')
- PROPOSED HIGH TIDE LINE (EL. 1.93')
- PROPOSED REVETMENT RESTORATION
- PROPOSED FLAT TOP REVETMENT
- PROPOSED GRAVEL ROAD
- GRASS LAWN RESTORATION
- PROPOSED COASTAL SHRUBLAND RESTORATION AREA
- PROPOSED BOULDER
- X.XX PROPOSED SPOT GRADE
- PROPOSED CONCRETE CURB WEIR
- PROPOSED SIGN

GENERAL NOTES:

1. BASEPLAN DEVELOPED FROM AN ELECTRONIC DRAWING FILE, "QUONOCHONTAUG BASE-NOV-15-2024.DWG" DEVELOPED BY BRYANT AND ASSOCIATES.
2. ELEVATION DATA DEVELOPED FROM SURVEYS PERFORMED BY GZA PERSONNEL BETWEEN JANUARY 15TH AND 18TH, 2021 AND NOVEMBER 12TH, 2025.
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0 20' 40' 80' 120'
SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

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APPROVED:

TODD R. GREENE
No. 8867
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
7/31/2026

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

PROPOSED CONDITIONS PLAN (SHEET 1 OF 2)

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. www.gza.com		RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT	
PROJ MGR: KBN	REVIEWED BY: TRG	CONSULT REV: RJM	DRAWING C-6
DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 8 OF 15

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G:\24-10_\WEDRIVE - GZA\DESKTOP\QUONNIE DRAWINGS LOCAL\CRMC RIDEM PERMIT SET\PLANS\8-9_PROPOSED CONDITIONS - EAST.DWG 8 July 14, 2026 CATHERINE ROUSSEAU

SOUTHERN PARKING STALL COUNT	
EXISTING VEHICLE PARKING STALLS	23
PROPOSED VEHICLE PARKING STALLS	25
ACCESSIBLE PARKING STALLS REQUIRED	2 (1 VAN)

RECEIVED 7/31/2026 COASTAL RESOURCES MANAGEMENT COUNCIL

MATCHLINE

LOW POINT RELOCATED TO ALLOW FOR RESIDENTIAL STORMWATER DRAINAGE TO MARSH

COASTAL SHRUBLAND RESTORATION AREA 1 (SEE DETAIL DRAWING C-12)

ROADSIDE GRASS LAWN RESTORATION AREA (SEE DETAIL DRAWING C-12)

PROPOSED GRAVEL ROAD

COASTAL SHRUBLAND RESTORATION AREA 2 (SEE DETAIL DRAWING C-12)

PROPOSED BOULDER (TYP.)

PROPOSED ACCESSIBLE VAN PARKING SPACE SIGN (SEE DETAIL DRAWING C-12)

PROPOSED STAIRCASE LOCATION (SEE DETAIL DRAWING C-13)

PROPOSED FLAT TOP REVETMENT CREST EL. 4.5'

PROPOSED EMERGENCY LIFE RING CABINET (SEE DETAIL SHEET C-12)

PEDESTRIAN ACCESS TO REVETMENT CREST (TYP.)

PROPOSED ACCESSIBLE PARKING SPACE SIGN (SEE DETAIL DRAWING C-12)

PROPOSED PILE-SUPPORTED ACCESSIBLE FISHING PLATFORM (SEE DETAIL DRAWING C-8)

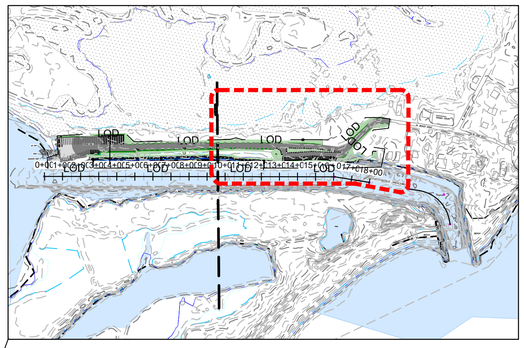
FISHING LINE RECYCLING CONTAINER (SEE DETAIL DRAWING C-12)

PROPOSED PILE-SUPPORTED ACCESSIBLE FISHING PLATFORM (SEE DETAIL DRAWING C-13)

PROPOSED FLAT TOP REVETMENT CREST EL. 4.5'

QUONOCHONTAUG BREACHWAY

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00



KEY PLAN
NOT TO SCALE

GENERAL NOTES:

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LEGEND

- PROPOSED CONTOURS
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE ADJACENT PROPERTY BOUNDARY
- LIMIT OF DISTURBANCE
- EXISTING MEAN HIGH WATER (EL. 0.91')
- EXISTING MEAN LOW WATER (EL. -1.61')
- EXISTING HIGH TIDE LINE (EL. 1.93')
- PROPOSED MEAN HIGH WATER (EL. 0.91')
- PROPOSED MEAN LOW WATER (EL. -1.61')
- PROPOSED HIGH TIDE LINE (EL. 1.93')
- PROPOSED FLAT TOP REVETMENT
- PROPOSED GRAVEL ROAD
- GRASS LAWN RESTORATION
- PROPOSED COASTAL SHRUBLAND RESTORATION AREA
- PROPOSED BOULDER
- PROPOSED SPOT GRADE
- PROPOSED CONCRETE CURB WEIR
- PROPOSED SIGN
- PROPOSED TIMBER PILE
- PROPOSED TIMBER ACCESSIBLE FISHING PLATFORM

N

0 20' 40' 80' 120'
SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

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APPROVED:

TODD R. GREENE
No. 8567
REGISTERED PROFESSIONAL ENGINEER
CIVIL
7/31/2026

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

PROPOSED CONDITIONS PLAN (SHEET 2 OF 2)

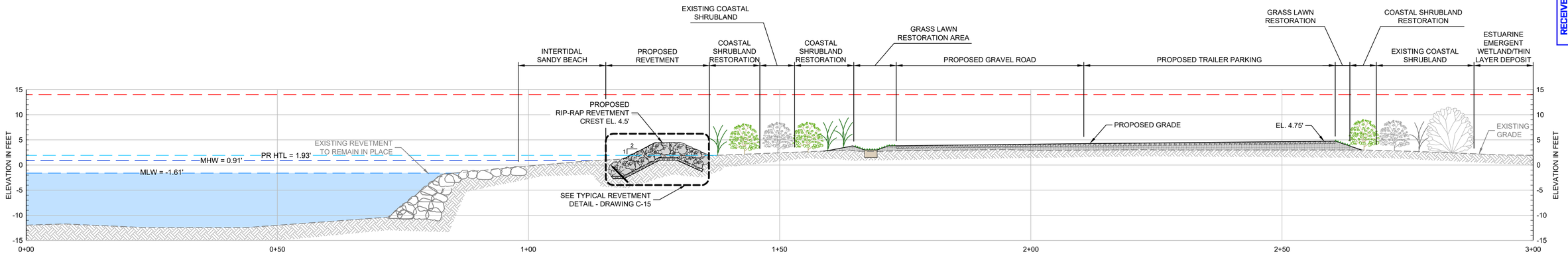
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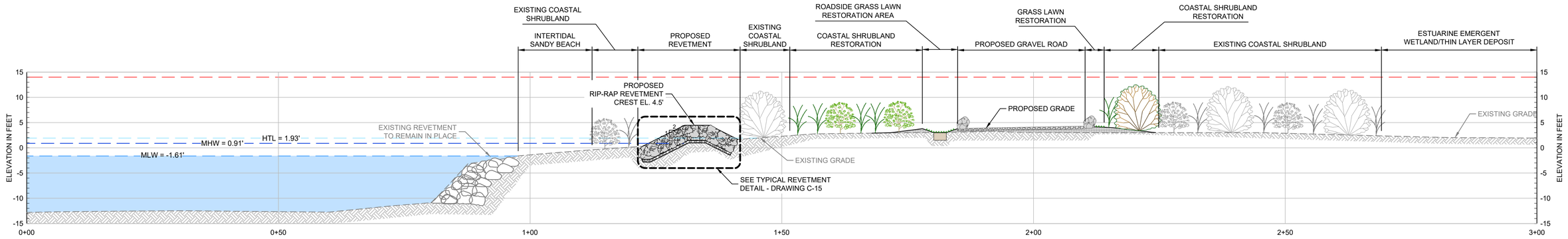
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DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 9 OF 15

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GZA-D:\ONEDRIVE - GZA\DESKTOP\QUONNE DRAWINGS LOCAL\DRWC RIDEM PERMIT SET\PLANS\9-9_PROPOSED CONDITIONS - EAST.DWG 9 July 14, 2026 CATHERINE ROUSSEAU

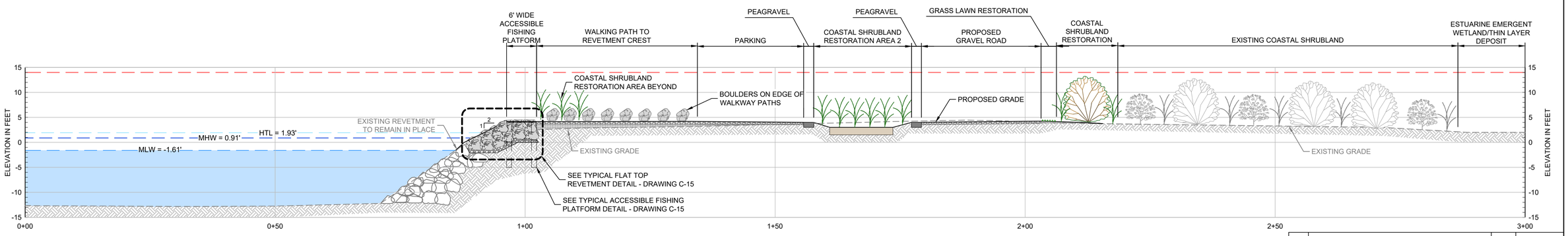
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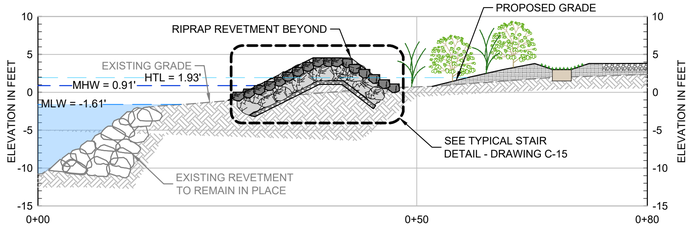
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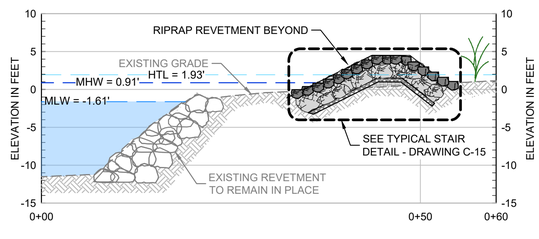
PROFILE B



PROFILE C



STAIR PROFILE 1A



STAIR PROFILE 1B

0 5' 10' 20' 30'
SCALE IN FEET 1" = 10'

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TODD R. GREENE
No. 8567
REGISTERED PROFESSIONAL ENGINEER
CIVIL
7/14/2026

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QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

PROPOSED CONDITIONS PROFILES

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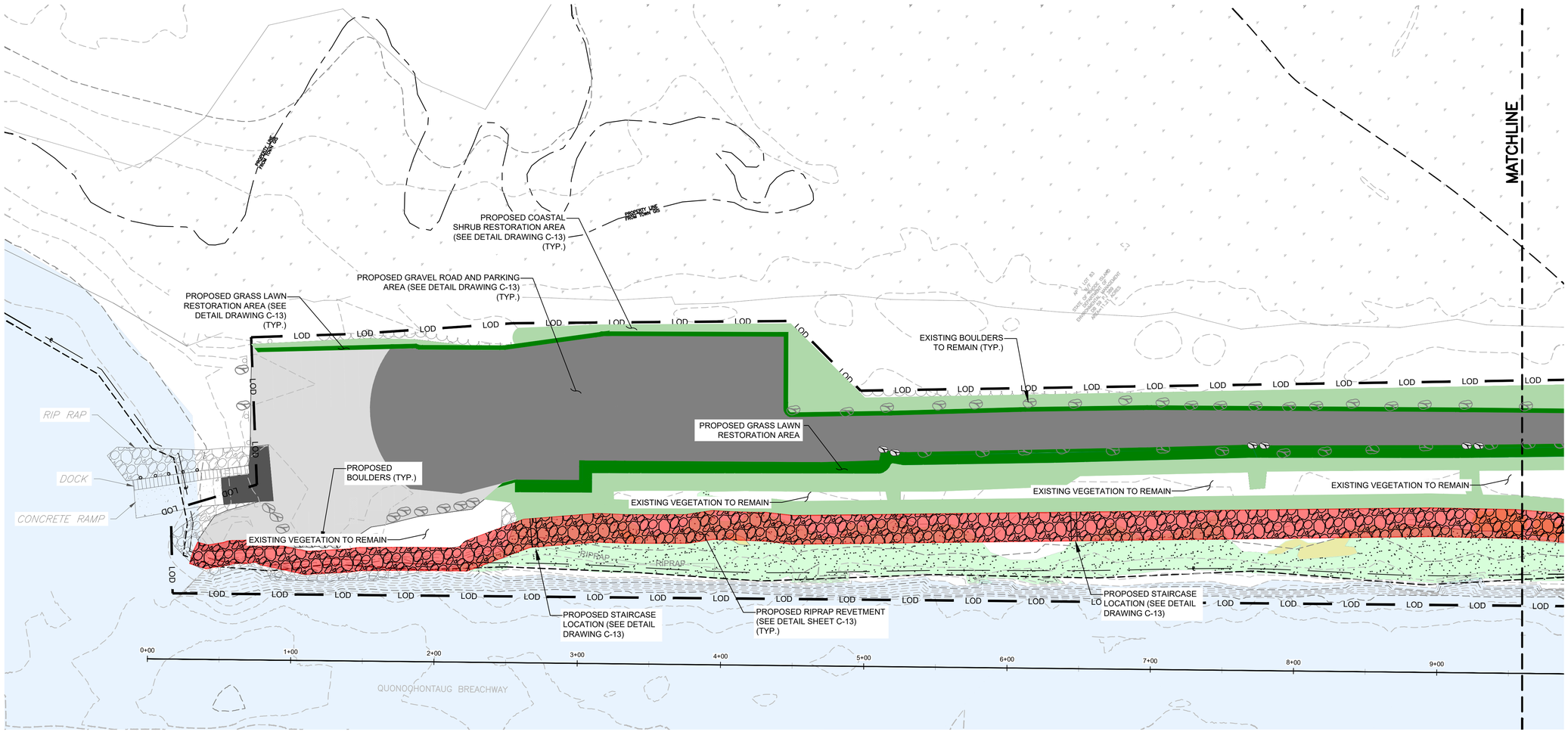
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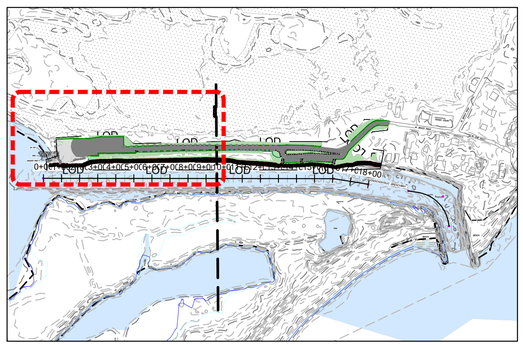
PROJ MGR:	KBN	REVIEWED BY:	TRG	CONSULT REV:	RJM
DESIGNED BY:	CAR	DRAWN BY:	CAR	SCALE:	AS NOTED
DATE:	JULY 14, 2026	PROJECT NO.	174739.10	REVISION NO.	0

DRAWING C-8
SHEET NO. 10 OF 15

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G:\ZA-CO\ONEDRIVE - GZA\DESK\PV\QUONNIE DRAWINGS LOCAL\DRWG RISEM PERMIT SET\PLANS\10-PROPOSED PROFILES.DWG 10 July 14, 2026 CATHERINE ROUSSEAU

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KEY PLAN
NOT TO SCALE

GENERAL NOTES:

1. BASEPLAN DEVELOPED FROM AN ELECTRONIC DRAWING FILE, "QUONOCHONTAUG BASE-NOV-15-2024.DWG" DEVELOPED BY BRYANT AND ASSOCIATES.
2. ELEVATION DATA DEVELOPED FROM SURVEYS PERFORMED BY GZA PERSONNEL BETWEEN JANUARY 15TH AND 18TH, 2021 AND NOVEMBER 12TH, 2025.
   a. ELEVATION DATA BEYOND THE LIMITS OF THE SURVEY ARE BASED ON LIDAR DATA DEVELOPED 2022.
3. MEAN TIDE VALUES WERE REFERENCED FROM NOAA TIDAL DISK BENCHMARK 8455022.
4. ALL ELEVATIONS ARE IN NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

LEGEND

- PROPOSED CONTOURS
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE ADJACENT PROPERTY BOUNDARY
- LIMIT OF DISTURBANCE
- VEGETATION LINE
- EXISTING BUILDING
- EXISTING ESTUARINE EMERGENT WETLANDS
- EXISTING GRAVEL ROAD
- EXISTING INTERTIDAL SANDY BEACH
- EXISTING LIMITS OF RIPRAP REVETMENT
- EXISTING ASPHALT
- PROPOSED BOULDER
- PROPOSED CONCRETE CURB WEIR
- PROPOSED GRAVEL ROAD
- GRASS LAWN RESTORATION
- PROPOSED COASTAL SHRUBLAND RESTORATION AREA
- PROPOSED RIPRAP REVETMENT

N

0 20' 40' 80' 120'
SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

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TODD R. GREENE
No. 8567
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
7/31/2026

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

RESTORATION PLAN (SHEET 1 OF 2)

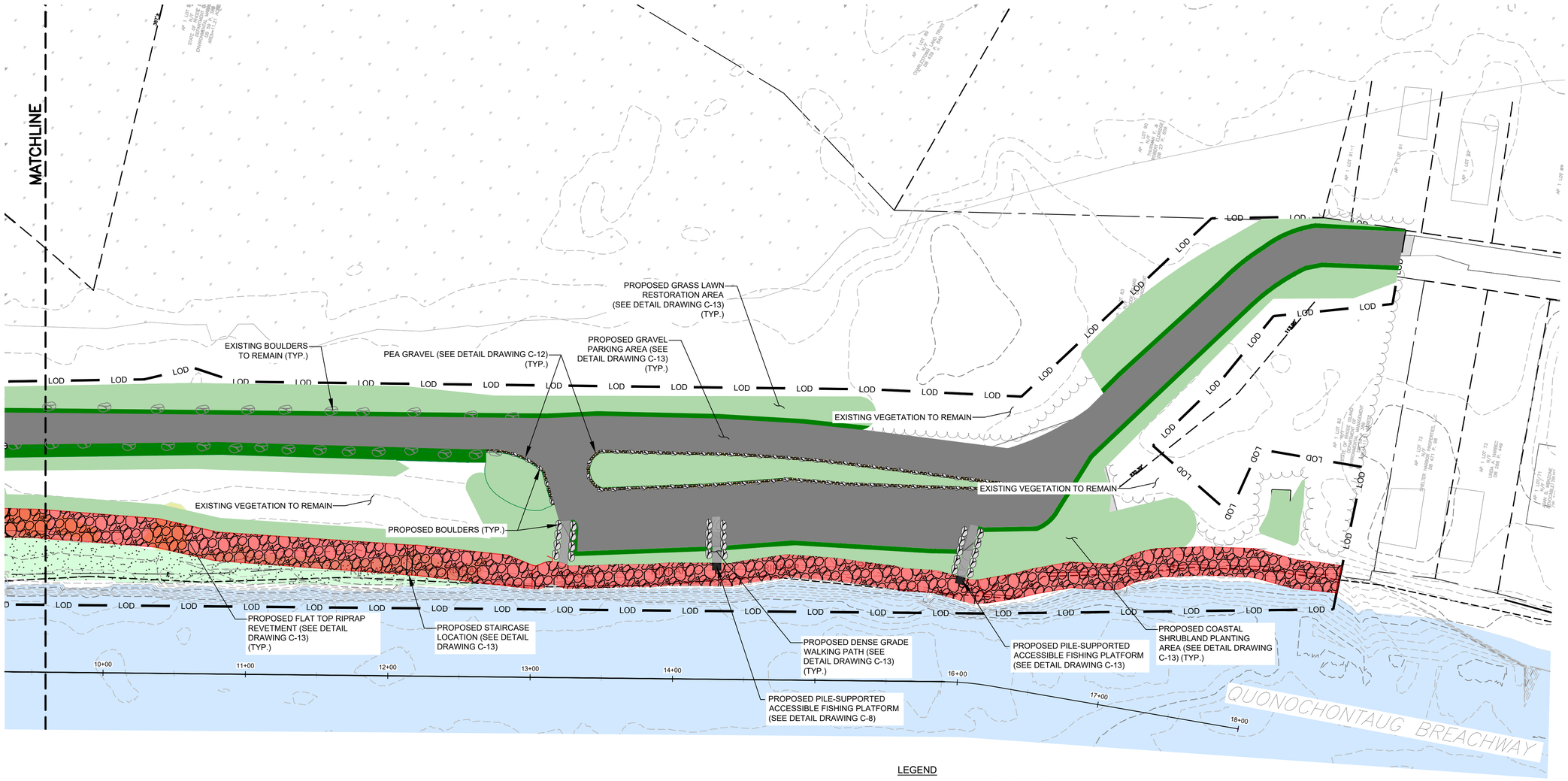
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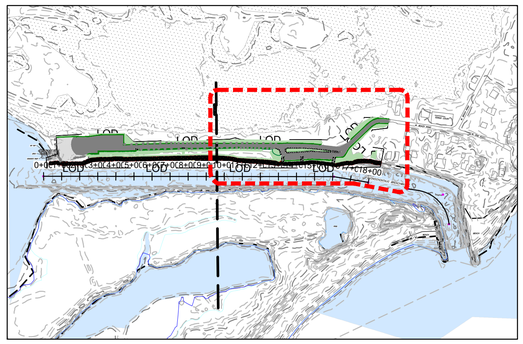
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PROJ MGR: KBN	REVIEWED BY: TRG	CONSULT REV: RJM	DRAWING C-9
DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 11 OF 15

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G:\21\21.0\DESIGN\CAD\DRAWINGS LOCAL\DRMC RIDEM PERMIT SET\PLANS\13-14_RESTORATION PLAN - QUONNIE EAST.DWG 11 July 14, 2026 CATHERINE ROUSSEAU

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KEY PLAN
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GENERAL NOTES:

1. BASEPLAN DEVELOPED FROM AN ELECTRONIC DRAWING FILE, "QUONOCHONTAUG BASE-NOV-15-2024.DWG" DEVELOPED BY BRYANT AND ASSOCIATES.
2. ELEVATION DATA DEVELOPED FROM SURVEYS PERFORMED BY GZA PERSONNEL BETWEEN JANUARY 15TH AND 18TH, 2021 AND NOVEMBER 12TH, 2025.
   a. ELEVATION DATA BEYOND THE LIMITS OF THE SURVEY ARE BASED ON LIDAR DATA DEVELOPED 2022.
3. MEAN TIDE VALUES WERE REFERENCED FROM NOAA TIDAL DISK BENCHMARK 8455022.
4. ALL ELEVATIONS ARE IN NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

LEGEND

- PROPOSED CONTOURS
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE ADJACENT PROPERTY BOUNDARY
- LIMIT OF DISTURBANCE
- VEGETATION LINE
- EXISTING BUILDING
- EXISTING ESTUARINE EMERGENT WETLANDS
- EXISTING GRAVEL ROAD
- EXISTING INTERTIDAL SANDY BEACH
- EXISTING LIMITS OF RIPRAP REVETMENT
- EXISTING ASPHALT
- PROPOSED BOULDER
- PROPOSED CONCRETE CURB WEIR
- PROPOSED TIMBER PILE
- PROPOSED TIMBER ACCESSIBLE FISHING PLATFORM
- PROPOSED GRAVEL ROAD
- GRASS LAWN RESTORATION
- PROPOSED COASTAL SHRUBLAND RESTORATION AREA
- PROPOSED RIPRAP REVETMENT

N

0 20' 40' 80' 120'
SCALE IN FEET 1" = 40'

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TODD R. GREENE
No. 8567
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
7/14/2026

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

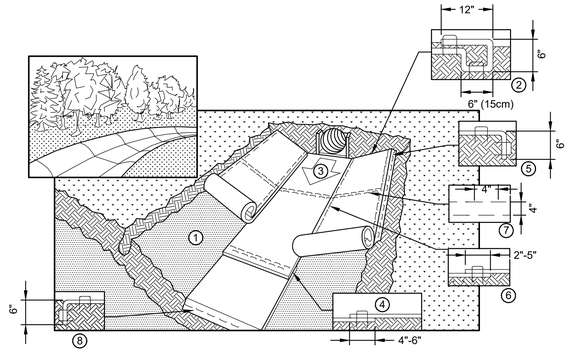
RESTORATION PLAN (SHEET 2 OF 2)

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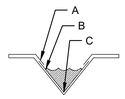
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DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 12 OF 15

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G:\ACAD\CONSTRUCTION DRAWINGS\QUONOCHONTAUG BREACHWAY\QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS\QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS.DWG
Z:\GZA\DESKTOP\QUONOCHONTAUG BREACHWAY\QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS.DWG
Z:\GZA\DESKTOP\QUONOCHONTAUG DRAWINGS LOCAL\CRMC RIDEM PERMIT SET\PLANS\13-14_RESTORATION PLAN - QUONNIE EAST.DWG 12 July 14, 2026 CATHERINE ROUSSEAU



INSTALLATION DETAIL OF EROSION CONTROL BLANKET

NOT TO SCALE



CRITICAL POINTS:

A. OVERLAPS AND SEAMS

B. PROJECTED WATER LINE

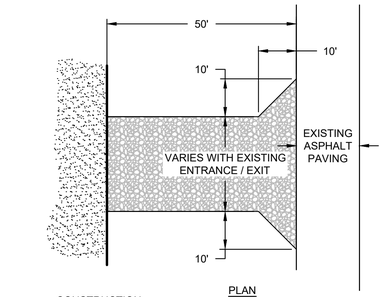
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTES:

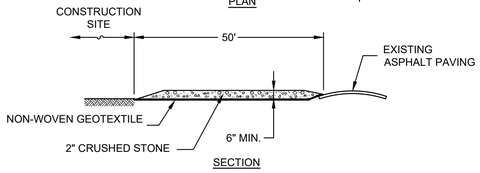
1. PRODUCT TO BE NORTH AMERICAN GREEN EROSION CONTROL BLANKET OR ENGINEER APPROVED EQUAL.
2. HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
3. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

INSTALLATION NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's). INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP's IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE(tm). WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP's END OVER END (SHINGLE STYLE) WITHA 4" - 6" (10cm -15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE RECP's.
5. FULL LENGTH EDGE OF RECP's AT TOP OF SIDE SLOPES MUST BE ANCHORED WOTH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP x 4" (10cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP's MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5cm - 12.5cm) (DEPENDING ON RECP'S TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9M - 12M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP's MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



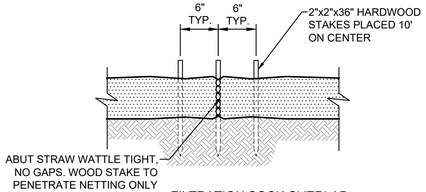
PLAN



SECTION

CONSTRUCTION ENTRANCE/EXIT

NOT TO SCALE

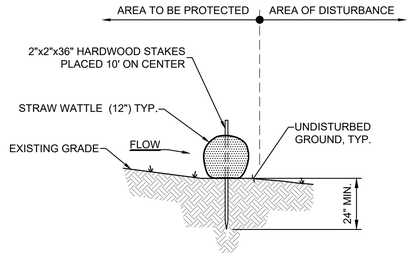


FILTRATION SOCK OVERLAP

NOT TO SCALE

NOTES:

1. ALL MATERIAL TO MEET FILTRATION SOCK SPECIFICATIONS.
2. FILTER MEDIA (TM) FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE AS APPROVED BY ENGINEER.



FILTRATION SOCK DETAIL

NOT TO SCALE

FILTRATION SOCK SEDIMENT CONTROL DETAIL

NOT TO SCALE

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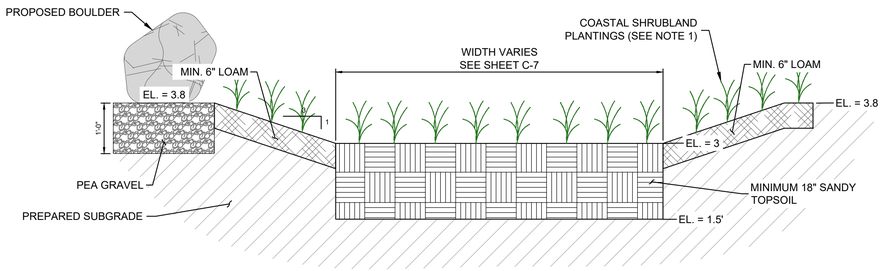
TODD R. GRIENE
No. 8567
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
7/14/2026

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

TEMPORARY SITE CONTROLS DETAILS

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. www.gza.com		RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT	
PROJ MGR: KBN	REVIEWED BY: TRG	CONSULT REV: RJM	DRAWING C-11
DESIGNED BY: CAR	DRAWN BY: CAR	SCALE: AS NOTED	
DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 15 OF 15

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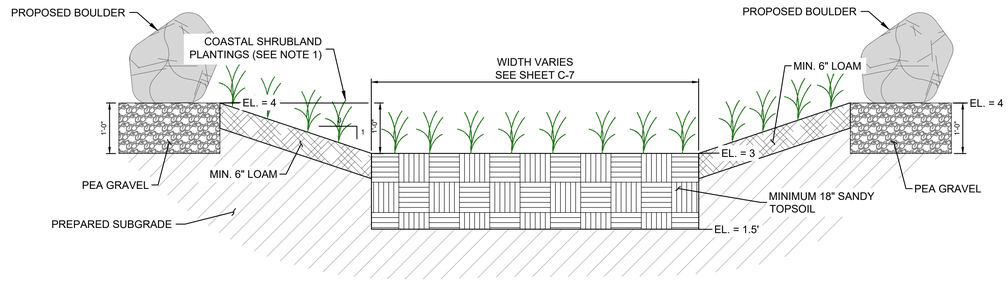


COASTAL SHRUBLAND RESTORATION AREA 1

NOT TO SCALE

NOTES:

1. COASTAL SHRUBLAND PLANTINGS TO BE FROM THE CRMC COASTAL BUFFER PLANTING GUIDE, MARITIME OR COASTAL SHRUBLAND SECTION.

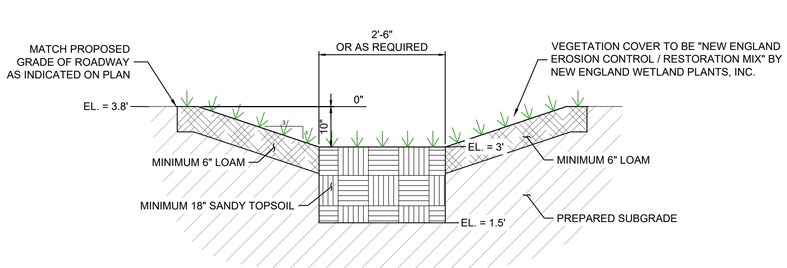


COASTAL SHRUBLAND RESTORATION AREA 2

NOT TO SCALE

NOTES:

1. COASTAL SHRUBLAND PLANTINGS TO BE FROM THE CRMC COASTAL BUFFER PLANTING GUIDE, MARITIME OR COASTAL SHRUBLAND SECTION.



ROADSIDE GRASS LAWN RESTORATION AREA

NOT TO SCALE



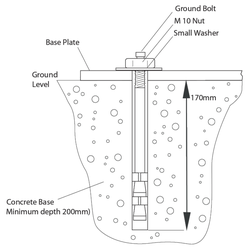


ADA PARKING SIGN DETAIL

NOT TO SCALE







EMERGENCY THROWABLE LIFE RING CABINET AND MOUNT DETAIL

NOT TO SCALE

NOTES:

1. EMERGENCY THROWABLE LIFE RING, CABINET AND MOUNT TO BE GLASDON GUARDIAN 30" LIFE RING CABINET WITH 30-INCH USCG TYPE IV LIFE RING, 100-FOOT FLOATING POLYPROPYLENE THROW ROPE, SURFACE MOUNTED ARMORTEC-COATED STEAL POST AND CUSTOM EMERGENCY INSTRUCTION DECALS.
2. EMERGENCY THROWABLE LIFE RING CABINET AND MOUNT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.



FISHING LINE RECYCLING CONTAINER DETAIL

NOT TO SCALE

NOTES:

1. FISHING LINE RECYCLING CONTAINER DETAIL SHALL BE CONSIDERED APPROXIMATE.
2. FISHING LINE RECYCLING CONTAINER SHALL BE EQUIVALENT TO EXISTING FISHING LINE RECYCLING CONTAINER LOCATED AT BOAT LAUNCH.

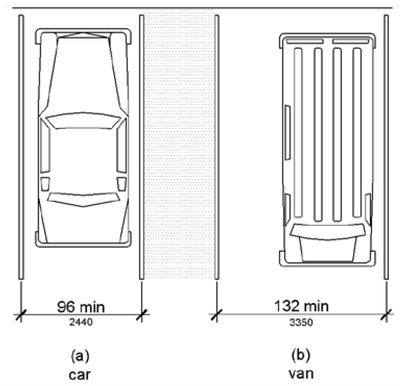


Figure 502.2
Vehicle Parking Spaces

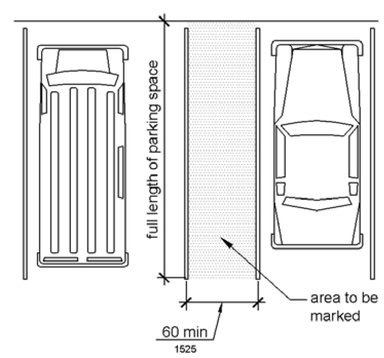


Figure 502.3
Parking Space Access Aisle

ADA PARKING DETAIL

NOT TO SCALE

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APPROVED:

TODD R. GREENE
No. 8567
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CIVIL
7/14/2026

QUONOCHONTAUG BREACHWAY RESILIENCY IMPROVEMENTS
CHARLESTOWN, RHODE ISLAND

MISCELLANEOUS DETAILS (1 OF 2)

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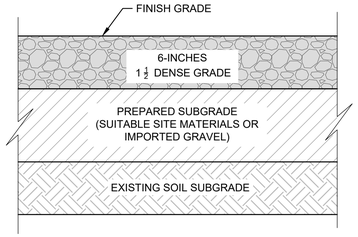
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DATE: JULY 14, 2026	PROJECT NO. 174739.10	REVISION NO. 0	SHEET NO. 14 OF 15

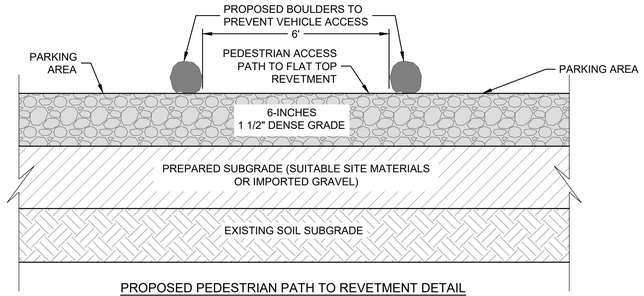
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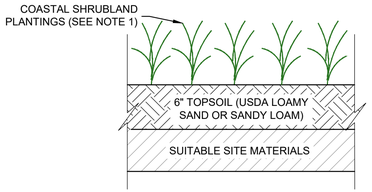
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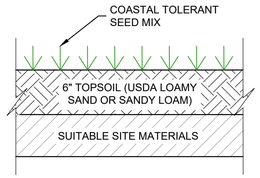
PROPOSED ROADWAY AND PARKING SECTION
NOT TO SCALE



PROPOSED PEDESTRIAN PATH TO REVETMENT DETAIL
NOT TO SCALE



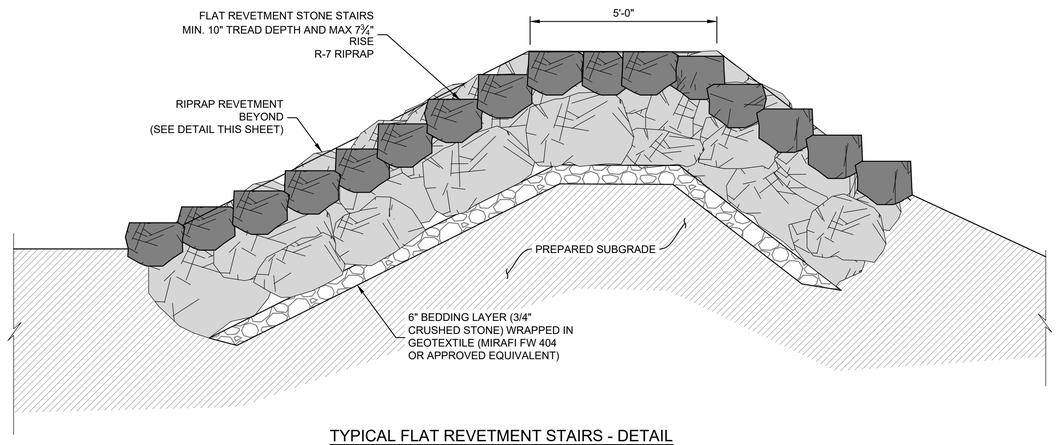
PROPOSED COASTAL SHRUBLAND RESTORATION DETAIL
NOT TO SCALE



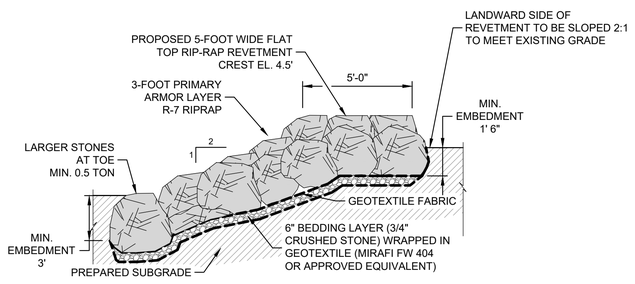
PROPOSED GRASS LAWN DETAIL
NOT TO SCALE

NOTES:

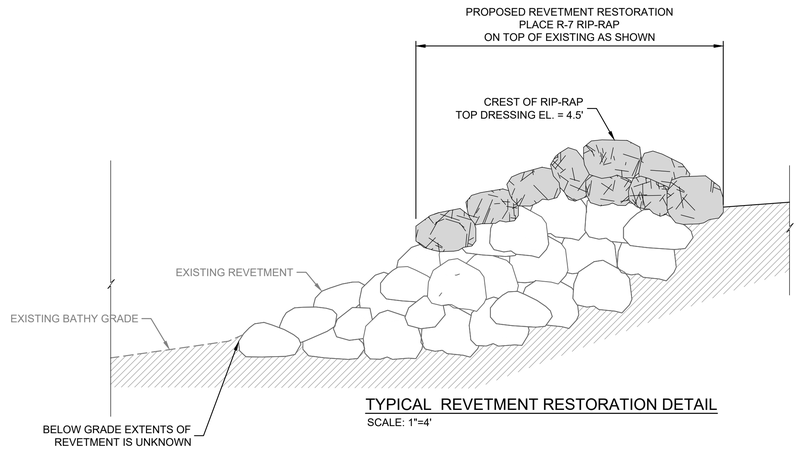
1. COASTAL SHRUBLAND PLANTINGS TO BE FROM THE CRMC COASTAL BUFFER PLANTING GUIDE, MARITIME OR COASTAL SHRUBLAND SECTION.



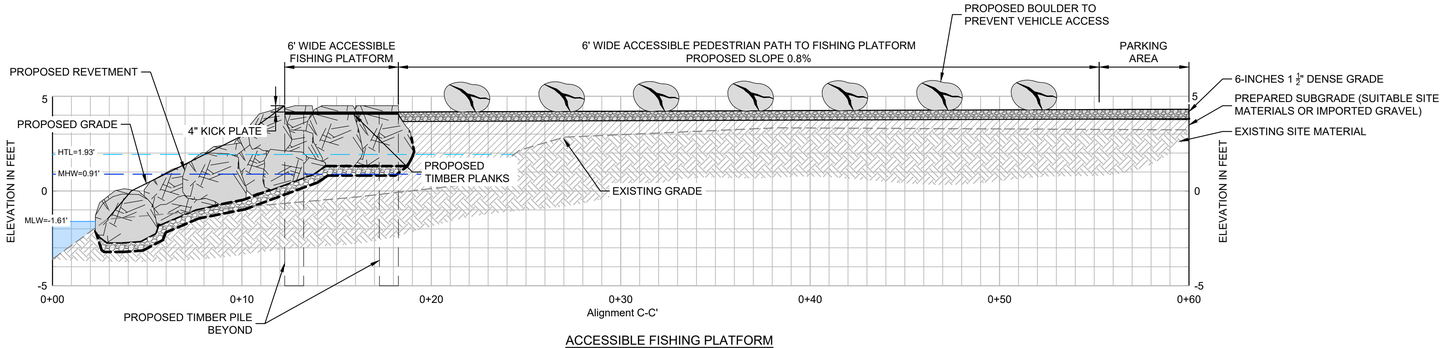
TYPICAL FLAT REVETMENT STAIRS - DETAIL
SCALE: 1"=2'



TYPICAL FLAT TOP REVETMENT DETAIL
SCALE: 1"=4'



TYPICAL REVETMENT RESTORATION DETAIL
SCALE: 1"=4'



ACCESSIBLE FISHING PLATFORM
SCALE: 1" = 4'

NOTES:

1. TIMBER PILE DESIGN TO BE DETERMINED BY CONTRACTOR GEOTECHNICAL EXPLORATION .
2. FISHING PLATFORM WILL BE WOODEN WITH 4-INCH KICK PLATE FROM SURROUNDING REVETMENT ROCK.

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CHARLESTOWN, RHODE ISLAND

MISCELLANEOUS DETAILS (2 OF 2)

PREPARED BY:
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PREPARED FOR:
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