CRMC DECISION WORKSHEET 2021-09-015

Windward Associates LLC

Hearing Date:		
Approved as Re	commended	
Approved w/additional	Stipulations	
Approved b	out Modified	
Denied	Vote	

Town Project Location Category Exception Variance			APPLICATION INFORMATION			
Plat 137 Lot 41 Date Accepted 09-09-2021 Windward Associates LLC Work at or Below MHW Drive Lease Required Drive Westerly, R1 02891	File Number	Town	Project Location	Category		Variance
Date Accepted 09-09-2021 Date Completed 01-13-2022 Date Completed O1-13-2022	2021-09-015	Westerly		A		
Date Accepted 09-09-2021 Date Completed 01-13-2022 Date Completed O1-13-2022			Owner Name and Address		· · · · · · · · · · · · · · · · · · ·	
PROJECT DESCRIPTION Construct a 3-bedroom single family dwelling with OWTS KEY PROGRAMMATIC ISSUES Coastal Feature: Coastal wetland Water Type: Type 2, Low Intensity Use CRMP: 1.1.7, 1.1.9, 1.1.11, 1.2.2(c) 1.3.1(F) SAMP: N/A Variances and/or Special Exception Details: Setback and buffer zone variances requested. Additional Comments and/or Council Requirements: Specific Staff Stipulations (beyond Standard stipulations): STAFF RECOMMENDATION(S) Engineer Recommendation: No Objection	Date Accepted	09-09-2021		Work at or	Below MHW	
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Construct a 3-bedroom single family dwelling with OWTS			Westerly, RI 02891			
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Engineer Recommendation: Biologist PJO Recommendation: No Objection	Additional Com	ments and/or Counc	il Requirements:	ices requeste	u.	
Biologist PJO Recommendation: No Objection			STAFF RECOMMENDATION(S))		
		Engineer	Recommendation:			
Other Staff Recommendation:		Biologist P	JO Recommendation:	No Objectio	n	
		Other Staff	Recommendation:			

Engineering Supervisor Sign-Off date

Executive Director Sign-Off

14 Jan 1822 date

Supervising Biologist Sign-off

OUL dat

Staff Sign off on Hearing Packet (Eng/Bio)

date

Name: Windward Associates LLC CRMC File No.: 2021-09-015

Staff Report



STATE OF RHODE ISLAND

COASTAL RESOURCES MANAGEMENT COUNCIL

INTER-OFFICE MEMORANDUM

DATE:

09-28-2021

TO:

Jeffrey M. Willis, Executive Director

FROM:

Peter O' Rourke.

SUBJECT: CRMC File No. 2021-09-015

Applicant's Name:

Windward Associates LLC

Project:

Construct a new 3 bedroom single family house and associated OWTS.

Location:

3 Setting Sun Drive, Westerly, plat 137, lot 41

Water Type/Name:

Type 2, Low Intensity Use, Pawcatuck River

Coastal Feature:

Coastal wetland.

Plans reviewed:

"Plan to accompany CRMC application proposed new dwelling construction and site

improvements for: Windward associates, LLC". By LeBlanc Engineering revised 10-

04-2021 sheets 1-3.

STAFF REPORT

Introduction:

This is a variance application request to 650RICR200-00-01.1.9 and 1.1.11 for buffer zone and setback variances. The house requires a 50% buffer relief to 75 ft. and provides a 13.5 ft. setback where 25ft is required. The proposed OWTS requires a 121ft relief from the 150 ft. standard due to regrading and will be located 51.7 ft. when built. The property is located on the corner of watch hill road and setting sun drive. The 103,038sf lot was combined from 4 original lots and measures approximately 560' by 150'.

Summary:

Applicant is proposing to construct a 3 bedroom single family house with a de-nitrifying OWTS. The applicant has been issued an RIDEM OWTS permit 0036-1132 for a 3 bedroom house. The applicant has also mistakenly received an Insignificant Alteration permit 19-0287 from RIDEM Fresh water wetlands program as it falls under RICRMC jurisdiction.

However it was noted in the wetlands permit that the wetland on site contained salt- marsh species near the culvert on watch hill road. The culvert is associated with an 18 inch corrugated pipe which crosses Watch

Name: Windward Associates LLC CRMC File No.: 2021-09-015

Staff Report

Hill road to the Pawcatuck River. The presence of salt marsh species had been confirmed in a previous PD application by CRMC staff.

The applicant requested that we confirm these findings as their biologist did not agree. A recent site inspection confirmed the presence of saltmarsh vegetation at the culvert area. The coastal wetland species seems to be in this area only. The Stated elevation of the freshwater wetlands is elevation 3' and the 18" corrugated metal pipe is at elevation 1.07. The higher the tide the greater the coastal wetland and conversely the lower the tide the more the wetland may drain.

The CHA has a 30 year design life shows it will meet SLR but not the SDE as the proposed FFE is14.5and the SDE is 18.6ft. The CERI is described as severe.

Analysis:

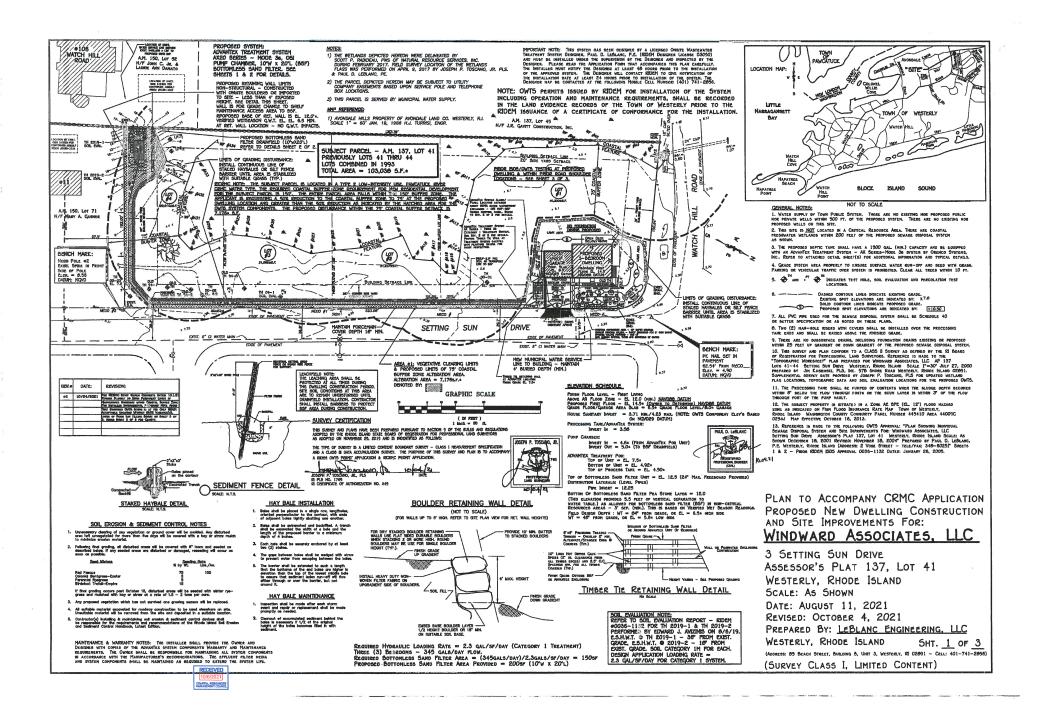
This application requires variances to 650RICR200-00-01 1.1.9 and 1.1.11to meet setback and buffer zone requirements. The 150 foot buffer zone is not provided and 75 ft. is provided except for the proposed BSF which is 51.7 ft. from the feature and which will require regrading within 29 ft. of the coastal feature. The assent will require permanent vegetative maintenance around the BSF for access to same. As stated this property has received permits from RIDEM.

The lot is connected to the coastal wetland by the 18" corrugated pipe which due to tidal influence creates a coastal wetland on the other side of the road. This 103,038 sf. Lot requires a 150ft. buffer and the applicant has requested a variance to the allowed 75ft. The proposed dwelling will be 13.5 ft. from the buffer so the required 25ft. setback is not met. The proposed leach field will be over 500ft. from the culvert, however it is only 51.7 feet from the nearest coastal wetland edge. The OWTS is located at the highest point of the property and appears to maximize the distance to the wetland as much as possible.

It is the opinion of the reviewing staff that the applicant has minimized variances to the greatest extent possible.

Recommendation:

There are no objections to the council granting of the variances and approving this application. Should the council approve this application standard stipulations shall be applied.



LeBlanc Engineering, LLC

85 Beach Street, Building B, Unit 3, Westerly RI 02891 Mobile: (401) 741-2856 Email: pleblancpe@aol.com

October 5, 2021

Attn: Mr. Peter O'Rourke Coastal Resources Management Council Stedman Government Center, Suite 3 4808 Tower Hill Road Wakefield, RI 02879-1900

Re: RICRMC Assent Application # 2021-09-015

3 Setting Sun Drive, Westerly RI (A.P. 137, Lot 41)

Supplemental Assent Documents Per CRMC Staff Review

Dear Mr. O'Rouke:

As requested from your office, I have prepared this correspondence as a formal response to CRMC staff review comments as discussed October 1, 2021 via telephone communication. LeBlanc Engineering, LLC has prepared a supplemental Sheet 3 of 3 to be included with the Council review documentation for the project. Prior plan sheets accompanying the prior assent submission package have been replaced within the attached replacement plan sets and have been renumbered Sheet 1 of 3 and Sheet 2 of 3 respectively; with relevant revision block revisions included, as well as reference to supplemental data prepared for Sheet 3 of 3.

Sheet 3 of 3 includes the approximate delineation of prior onsite filling of the subject parcel performed in conjunction with development of the "Avondale Hills Subdivision" plat and construction of Setting Sun Drive prior to 1970. The estimate of prior lot filling is approximately 49% (50,069sf) of the current lot area. Sheet 3 of 3 also shows the proposed limits of the permanent maintenance areas to be maintained by vegetative clearing/cutting for access to the proposed Bottomless Sand Filter (BSF) leachfield area and 3" forcemain sanitary transport line from the advanced treatment system to the BSF location. The total of the proposed permanent maintenance areas within the 75' coastal buffer zone setback limits is 6,368sf+/-. The total area to be permanently maintained within prior man filled areas within the 75' coastal buffer zone setback is estimated to be 3,435sf+/-. The total estimated area to be permanently maintained within prior non-fill impacted areas is 2,933sf+/-. The Applicant proposes to allow for natural revegetation of the net areas of impacted disturbance (total disturbance areas shown on Sheet 1 of 3) during the construction phase vs. the permanent maintenance limits shown on Sheet 3 of 3.

The Town of Westerly currently maintains the vegetative right-of-way strip from the westerly limits of Setting Sun Drive (pavement edge) to the easterly property limits (Town right-of-way limits) – see attached photos. The Applicant proposes a permanent maintenance edge strip adjacent to Setting Sun Drive for the maintenance of the sanitary forcemain transport line. This maintenance area is entirely within a prior filled plateau within the subject property – see attached photos. Likewise, the Applicant is

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OCT 06 2021

COASTAL RESOURCES
MANAGEMENT COUNCIL

proposing a permanent maintenance strip of 10' in width parallel to the southerly property limits and an area within the grading limits of the BSF grading limits.

Sheet 3 of 3 depicts the limits of the prior ISDS/OWTS site investigations for testholes and soil evaluation locations within the prior site fill plateau adjacent to Setting Sun Drive and the proposed dwelling location. All of these locations were disclaimed by RIDEM as non-suitable areas for siting an ISDS/OWTS leachfield system. The Applicant has proposed the area to the southerly limits of the lot as the only suitable onsite location acceptable to RIDEM for the siting of an OWTS without any variance to the OWTS Regulations. This is the current OWTS permitted location.

Should you have any questions or clarifications relative to this correspondence, please don't hesitate to contact me via email pleblancpe@aol.com or at 401.741.2856.

Sincerely,

Paul D LeBlac, P.E.

Paul D. LeBlanc, P.E., President *LeBlanc Engineering*, *LLC*

cc: Windward Associates, LLC – C/O Gary Guastamachio Natural Resource Services (NRS) – C/O Scott Rabideau

Attachments: Site Photos, 4 Sets Revised Plans Sheets 1-3





PHOTOS OF TOWN OF WESTERLY DPW VEGETATION MAINTENANCE:



Photo 1 – Date: 10/4/2021

Looking Southeast Along Westerly Edge of Setting Sun Drive – Town of Westerly DPW is Currently Maintaining Vegetative Trimming to Frontage Property Line of Subject Parcel





Photo 2 - Date: 10/4/2021

Looking Northwest Along Westerly Edge of Setting Sun Drive – Town of Westerly DPW is Currently Maintaining Vegetative Trimming to Frontage Property Line of Subject Parcel





Photo 3 – Date: 10/4/2021

Photo Showing Large Boulders and Topsoil/Subsoil Fill Previously Placed Prior to 1970 for the Construction of the "Avondale Hills" Subdivision and Setting Sun Drive Roadbed. Photo Taken Looking Northwest Between Flagged Wetland Edge to the Left and Setting Sun Drive to the Right.





Photo 4 – Date: 10/4/2021

Photo Showing Large Boulders and Topsoil/Subsoil Fill Previously Placed Prior to 1970 for the Construction of the "Avondale Hills" Subdivision and Setting Sun Drive Roadbed. Photo Taken Looking Northwest Between Flagged Wetland Edge to the Left and Setting Sun Drive to the Right, Just Prior to the Proposed new Dwelling Location.





STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

HISTORICAL PRESERVATION & HERITAGE COMMISSION

Old State House • 150 Benefit Street • Providence, R.I. 02903-1209

TEL (401) 222-2678

FAX (401) 222-2968

TTY / Relay 711

Website www.preservation.ri.gov

Mr. Raymond Coia, Chair Coastal Resources Management Council Stedman Government Center, 4808 Tower Hill Road Wakefield, RI 02879

CRMC File Number: 2021-69-015

Applicant:

Windward Associates LLC

Town:

Response Date:

Shorter Tosh 4/

Dear Ms. Cervenka,

The Rhode Island Historical Preservation & Heritage Commission has reviewed the above-referenced project. It is our conclusion that this project will have no effect on any significant cultural resources (those listed on or eligible for listing on the National Register of Historic Places).

These comments are provided in accordance with 650-RICR-20-00-1.2.3 Areas of Historic and Archaeological Significance of the Coastal Resources Management Council. If you have any questions, please contact Charlotte Taylor, Senior Archaeologist, or Elizabeth Totten, Project Review Coordinator, at this office.

Very truly yours,

Jeffrey Emidy

Acting Director, RIHPHC

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OCT **05** 2021

RICRMC COASTAL HAZARD APPLICATION WORKSHEET

APPLICANT NAME: Windward Associates, LLC

PROJECT SITE ADDRESS: 3 Setting Sun Drive, Westerly RI (A.P. 137, Lot 41)

STEP 1. PROJECT DESIGN LIFE

A. For properties in a FEMA-designated **A**, or **X** Zone, provide the first floor elevation (FFE) of the proposed structure referenced to NAVD88, <u>OR</u>

For properties in a FEMA-designated **V** or **Coastal A** Zone, please provide the elevation of the lowest horizontal structural member (LHSM) referenced to NAVD88.

LHSM elevation ft

OR

FFF 14.5

NAVD88.

B. How long do you want your project to last? Identify the expected design life for the project (CRMC recommends a **minimum of 30 years**)

Design Life: 30

yrs

ft

C. Add the number of years you identified in 1B to the current year.

Design Life Year: 2051

D. CHECK beneath the sea level rise (SLR) projection that matches or comes closest to project design life year.

	1.47	2.13	3.05	4.00	5.15 O	6.49	7.94	9.41	
Year	2030	2040	2050	2060	2070	2080	2090	2100	

Source: Sea Level Rise (SLR) Projections (Feb. 2017). NOAA High Curve, 83% Confidence Interval. Newport, RI Tide Gauge. All values are expressed in feet relative to NAVD88. http://www.corosclimate.us/ccaceslcurves.cfm

NOTE: The STORMTOOLS sea level rise scenarios depict how high the water will be above the average height of the daily high tide over the 19-year period between 1983 and 2001. There have been between 4 and 5 inches of sea level rise in Rhode Island since then. The higher modeled water level accounts for the uncertainties in ice sheet and ocean dynamics.

STEP 2. SITE ASSESSMENT



. Open RICRMC Coastal Hazard Mapping Tool. Following the tutorial along the left side of the screen, enter the project site address and turn on the sea level layer closest to the number you circled in 1D.



ENTER the STORMTOOLS SLR map layer closest to the SLR value you checked in Step 1D above. If the value falls between the available STORMTOOLS SLR map layers, round to the closest of these sea level rise (SLR) numbers: 1ft, 2ft, 3ft, 7ft, 10ft, or 12ft

3

re tidal

C.

Does the STORMTOOLS SLR map layer you circled above expose your project site to future tidal inundation? **CHECK YES or NO**

D. List any **roads or access routes** that are potentially inundated from SLR. To do this, ZOOM OUT from your project location, change BASEMAP on the viewer to "street view" – see Step 2A.

Portions of Setting Sun Dr & Watch Hill Rd Near Project Site - (If 3ft SLR Est. is Correct)

STEP 3. STORMTOOLS DESIGN ELEVATION (SDE)

A. Select your SLR Scenario using the tabs along the top of the online map (NOTE: RECOMMENDED scenario is 100-year storm plus 3-feet of sea level rise). Follow the tutorial included along the left panels of the viewer to enter the address of your project site. Select the tab across the top that corresponds to the sea level rise projection you identified in STEP 1. Enter your address on the map, and then click on the project site to identify STORMTOOLS Design Elevation (SDE) from the pop-up box. Enter the SDE value:

16.8 ft

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MANAGEMENT COUNCIL

Page 1 of 2

^{**}Please be advised that CRMC staff may also review the implications of sea level rise in combination with nuisance storm flooding and discuss these potential project concerns with the applicant. Nuisance flooding impacts may be viewed in STORMTOOLS here.

RICRMCCOASTAL HAZARD APPLICATION WORKSHEET

	STEP 4. SHORELIN	NE CHANGE		Shidow Edit		MINE SEAL			
	A. Using the <u>CRMC</u>		<i>maps</i> , indica	te the trar	nsect number	Tran	sect Numb	er:	
	closest to your site, a are not available for	nd erosion rate liste	ed for that tra	nsect. NO	TE: Transects		Erosion Ra	ate:	ft/year
	B. CHECK below the	Projected Erosion R	late that corr	esponds to	the design lif	e you ider	itified above.		
		Year	2050	2060	2070	2080	2090	2100	
		Projected Future ProsionMultiplier	1.34	1.45	1.57	1.70	1.84	2.00	
		Source: Pro	ojected Shorelii	ne Change R	ate multipliers.	(Oakley et	al., 2016)		
	C. COMPLETEERO S	SIONSETBACKCALC	ULATION:						
		storic shoreline change rate, STEP 4A	Design Life STEP 1B		rojected Futu osion Multipli STEP4B		Erosion Set 4A x 1B		
		Х		Χ		=			
		uired per the <u>CRMC Red B</u>	ook, Section 1.1.		setback of 50-fe	eet is require	d , but a greater:	setback may be i	necessary and/or
	desirable based on this	anaiysis.							
	STEP 5. CERI & OT	THER SITE CONSI	DERATION	IS					
	A. If you live in a comm Narragansett, South Kin the map that correspon	ngstown, Warren, War	wick, Westerl	y), CHECK th					
	CERI Level:	Moderate		evere	Extreme	Inunda	ited by 210	00 Not a	oplicable
	B. Consider and discuss shoreline features, publ issues not listed above. I wells and septic systems	lic access, wastewater, In addition, pressure fr	, storm water, d	lepth to wat	ertable/ground	dwater dyna	amics, saltwat	er intrusion, o	other
	STEP 6. LARGE PR This step is for Large Promay be skipped for other	ojects and Subdivision	s only, six (6) o	r more units	s, as defined by	the <u>CRMC</u>	Red Book Sec	tion 1.1.6.I(1)(f). This step
7	A. Use the Sea Level Affe	ecting Marshes Model	(SLAMM) Map	s to assess p	otential				
	impacts to large projects projected sea level rise. (future potential project your project site to futu	CRMC SLAMM maps ca impacts on migrating	an be accessed marshes. Doe	here. The Cles the SLAMI	RMC recomme	_			
	STEP 7: DESIGN EV	VALUATION							
	A. Using Chapter 7 of the include that in the final a		SAMP as a guid	e, investigat	e mitigation op	tions for th	e exposure ide	ntified above	and
		eted Coastal Hazard Ap fessional, please print							
	DESIGN/ENGINEER	SIGNATURE:	Man	DES	Les ;	REL	DATE: 9	9/24/2021	
	OWNER'S	SIGNATURE	1 Des	The state of the s	ama	class	DATE: (9/24/2021	
	Version 08/10/20		- COP	2 WIL	OWBRO.	LESSUL.	LLC.	0-4-2	ORECEIVE

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COASTAL RESOURCES
MANAGEMENT COUNCIL



State of Rhode Island and Providence Plantations 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

APPLICATION FOR STATE ASSENT

To perform work regulated by the provisions of Chapter 279 of the Public Laws of 1971 Amended.

10 perform work regulated by the provisions of Chapter 279 of the Pr	dolle Laws of 1971 Afficilited.
	File No. (CRMC USE ONLY)
Project Location 3 Setting Sun Drive Westerly	2021-09-015
No. Street City/Town	
Owner's Name Windward Associates, LLC c/o Gary Guastamachio	Plat: 137
Owner's Name vindidate, 220 0/0 odry oddstamating	Lot(s): 41
Mailing Address 25 Windward Drive	Contact No.: (860)798-0012 Email Address:
City/Town Westerly State RI Zip Code 02891	jsgdevelopment1@sbcglobal.net
Contractor RI Reg. # Address	Email address: Tel. No.
85 Beach St, Building B, Unit 3 Designer Paul LeBlanc, P.E. Address Westerly, RI 02891	Tel. No. (401)741-2856
Name of Waterway	Estimated Project Cost (EPC): \$500,000.00
	Application Fee: \$2,750.00
Describe accurately the work proposed. (Use additional sheets of paper if nece Proposed construction of a 3-bedroom single family dwelling and on-site was	· · · · · · · · · · · · · · · · · · ·
Have you or any previous owner filed an application for and/or received an a	ssent for any activity on this property?
(If so please provide the file and/or assent numbers): A2017-06-048; 2020-02-002	, , , , , , , , , , , , , , , , , , ,
Is this site within a designated historic district?	S 🛭 NO
Is this application being submitted in response to a coastal violation? \Box YE	
If YES, you must indicate NOV or C&	
Name/mailing addresses of adjacent property owners whose property adjoins to insure proper notificationApplicant must initial to certify accuracy of adjacent property of A.P. 150, Lot 71 - Mary A Garner - 11 Setting Sun Drive Westerly, RI 02	wners and accuracy of mailing addresses. 891
A.P. 150, Lot 52 - John C Jr & Laurie Ann Damato - 106 Watch Hill Road	
A.P. 137, Lot 45 - JR Gavitt Construction Inc 100 Watch Hill Road Wes STORMTOOLS (http://www.beachsamp.org/resources/stormtools/) is a planning to	terly, RI 02891 ool to help applicants evaluate the impacts
of sea level rise and storm surge on their projects. The Council encourages appli	
understand the risk that may be present at their site and make appropriate adjus-	
NOTE: The applicant acknowledges by evidence of their signature that they have reviewed the Rhode Island Coastal Resources Mar and standards of the program. Where variances or special exceptions are requested by the applicant, the applicant will be prepared to each of these relief provisions. The applicant also acknowledges by evidence of their signature that to the best of their knowledge the information provided to the CRMC for this review is inaccurate or did not reveal all necessary information or data, then the permit Applicant requires that as a condition to the granting of this assent, members of the CRMC or its staff shall have access to the application assent. This application is made under oath and subject to the penalties of perjury. RECEIVED	o meet and present testimony on the criteria and burdens of proof for the information contained in the application is true and valid. If the granted under this application may be found to be null and void.
SEP 02 2021 Owner's Signature (sign and print)	WIHOKSHID ASSOCI
COASTAL RESOURCES PLE ASE REVIEW REVERSE SIDE OF APPLICATE	ION FORM

/ajt/lat

TO:

Coastal Resources Management Council

4808 Tower Hill Road Suite 3

Wakefield, RI 02879 Phone: (401) 783-3370



FRO	M: Building Official DATE: August 16, 2021
SUB.	I: Application of: Windward Associates, LLC - New Building Construction
	Location: 3 Setting Sun Drive Westerly, RI (A.P. 137, Lot 41) cel Located at the Intersection Watch Hill Road & Setting Sun Drive (South Side)
P	Address: 3 Setting Sun Drive, Westerly RI Plat No. 137 Lot No. 41
Was	To Construct: New 3-Bedroom Dwelling w/Attached Garage, Installation of New 3-Bedroom Onsite stewater Treatment System (OWTS) and Site Improvements
	I hereby certify that I have reviewed foundation plan(s). plan(s) for entire structure site plans
Westerly, Rho	Titled: Plan Showing Proposed Onsite Wastewater Treatment System (OWTS) and Site Improvements For: Windward Associates, LLC 3 Setting Sun Drive ode Island Scale: As Shown Date: September 17, 2019 Revised: June 26, 2021 Prepared By: LeBlanc Engineering, LLC (Sheets 1-4) Approved by RIDEM 7-13-2021.
Plan to Accon	pany CRMC Application Proposed New Dwelling Construction and Site Improvements For: Windward Associates, LLC 3 Setting Sun Drive Westerly, Rhode Island
Scale: As Sho	wn Date: August 11, 2021, Revised: Prepared By: LeBlanc Engineering, LLC (Sheets 1-2). Date of Plan (last revision): August 11, 2021
Manage of the latest of the la	and find that the issuance of a local building permit is not required as in accordance with Section of the Rhode Island State Building Code.
X	and find that the issuance of a local building permit is required. I hereby certify that this permit shall be issued once the applicant demonstrates that the proposed construction/activity fully conforms to the applicable requirements of the RISBC.
	and find that a Septic System Suitability Determination (SSD) must be obtained from the RI Dept. of Environmental Management.
	and find that a Septic System Suitability Determination (SSD) need not be obtained from the RI Dept. of Environmental Management.
***************************************	and find that said plans conform with all elements of the zoning ordinance, and that if said plans require zoning board approval, that the applicant has secured such approval and that the requisite appeal period has passed with no appeal filed or appeal is final. The Zoning Board approval shall expire on
	SEP 02 2021 COASTAL RESOURCES MANAGEMENT COUNCIL Building Official's Signature Date
×	and find that said plans conform with all elements of the zoning ordinance, and that if said plans require zoning board approval, that the applicant has secured such approval and that the requisite appeal period has passed with no appeal filed or appeal is final.



Town of Westerly, R. I.

Town Assessor's Office 45 Broad St Westerly RI 02891 Tel (401) 348-2541 Fax (401) 348-2616

TO WHOM IT MAY CONCERN:

RECORDS AT THE ASSESSOR'S OFFICE, TOWN OF WESTERLY, RI, INDICATE THAT THE FOLLOWING OWN PROPERTY IN SAID TOWN:

NAME:

WINDWARD ASSOCIATES LLC

25 WINDWARD DR WESTERLY, RI 02891

PROPERTY LOCATION: 3 SETTING SUN DR

PLAT/LOT: 137/41

LAND EVIDENCE RECORDS: BOOK 0489 PAGE 0106

DATE OF ISSUE: July 15, 2021

SINCERELY,

DAVID B THOMPSON TOWN ASSESSOR

SEP 02 2021

COASTAL RESOURCES
MANAGEMENT COUNCIL

TOWN OF WESTERLY, R.I. PROPERTY INDEX CARD

)LD PLAT: 0020 OLD LOT: 0004	ረታ Guastamachio, Joseph S., 8 Timothy Dr, Town 0 (Combined Lots 42,43, & 44 to this lot.	Quit Claim Deed	Woody Hill Homes Inc., 8 Timothy Drive Tow	-Guastamachio, Joseph S.	-#ESTEREY:R: 1"02891	CYO HAROLD SOCOVETICIK	.	NAME AND ADDRESS	SUBDIVISION: Avondale Hills	OCATION: SETTING SUN DRIVE-AVONDALE HILLS-L4	137 41 1151500 103,711 N	SQUARE FEET SEWER DISTRICT
OT: 0004	eph S., 8 Tim			# s	891	W-1727X		AND ADDRESS		H. 3 BY GNDAY + 3A		1
	othy Dr, To	Quit Claim Quit Claim	Drive			к				1118-14		
	wn lot:)	Deed	Town								13	STATE CODE
-	11/8/93	9/28/93	1/19/93	7/12/84		10/23/78 72	RECORDED	DATE	LOT: 4		加九〇	ZONING
25	489	482	448	268		72	RDED BOOK	DE	8		MFD	PI
	106	279	290	290		200	PAGE	DEED				FIRE

SEP 02 2021

COASTAL RESOURCES



Natural Resource Services, Inc.

August 10, 2021

Amy Silva, Senior Environmental Scientist Coastal Resources Management Council 4808 Tower Hill Road Wakefield, RI 02879

RE: Application for Assent 3 Setting Sun Drive, Westerly CRMC PD No. 2020-02-002

Dear Ms. Silva:

Natural Resource Services, Inc. (NRS) has been retained by Gary Guastamachio of Windward Associates, LLC to assist with the preparation and submission of this Application for Assent to construct a single family dwelling on the above referenced property. NRS did submit a Preliminary Determination (PD) to the Coastal Resources Management Council (CRMC) in February of 2020. The PD response and comments from now retired CRMC staff scientist Timothy Motte were received on March 2, 2020.

Mr. Motte made a determination that the freshwater wetland present on this lot is regulated by the CRMC as a coastal wetland. There is a 24-inch corrugated metal culvert beneath Watch Hill Road which drains water from this freshwater wetland to a coastal marsh on the north side of Watch Hill Road. Mr. Motte determined that at extreme hightides tidal waters flow through the culvert and into the freshwater wetland. I do not agree with the determination made by Mr. Motte. My rationale for this contradictory opinion is presented in the variance request narrative.

Freshwater wetlands on the south side of Watch Hill Road are regulated by the Department of Environmental Management (DEM), Office of Water Resources (OWR). The applicant has received an Insignificant Alteration permit from the DEM, OWR to construct a 4-bedroom single family home and on-site wastewater treatment system (DEM Application No. 19-0287). The DEM permitted plan maintains an undisturbed 50foot perimeter wetland around the proposed home. However, a sewer line force main and grading around the bottomless sand filter encroach into the perimeter wetland. These limited encroachments were deemed to be insignificant relative to the functions and values of this wetland.

In light of Mr. Motte's determination, this CRMC designated contiguous COASTA freshwater wetland necessitates a 150-foot buffer zone within this 2.37 acre parcella The applicant has reduced the size of the house to allow for the establishment of a 75-foot

buffer zone. The application package therefore includes a request for a 50 percent reduction in the buffer zone for construction of the dwelling.

Similarly, in order to accommodate a reasonably sized residence, the application also requests a variance to the setback requirement. At its closest point, the dwelling falls within 13.5 feet of the 75-foot buffer zone.

As previously mentioned, the OWTS grading falls within 29 feet of the wetland edge. This is the closest point of any land altering activity from the project. Therefore, the applicant must seek buffer zone relief of 81 percent in order to construct the DEM permitted OWTS. It should be noted that the house and septic have each been scaled down to 3-bedrooms.

Finally, Mr. Motte's PD findings makes substantive changes to the wetland delineation. He asserts that a coastal bluff is applicable along much of the wetland delineation. This determination, in my opinion, is not supported by the natural topography and should be revisited by staff as part of the assent application. Mr. Motte also requires changes to the wetland delineation in the southern portion of the lot nearest the proposed OWTS. This wetland edge was used and accepted as part of the DEM freshwater wetland application. I respectfully request that staff also review the original NRS delineation as part of this assent application.

Please do not hesitate to contact me if you have questions or require additional information.

Yery truly yours,

Scott P. Rabideau, PWS

Principal

Enclosures

Cc: Gary Guastamachio Paul LeBlanc, PE

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COASTAL RESOURCES
MANAGEMENT COUNCIL



Natural Resource Services, Inc.

Request for Buffer Zone and Setback Variances

Proposed Single Family Residence 3 Setting Sun Drive; A.P. 137, Lot 41 Westerly, Rhode Island



Prepared for: Gary Guastamachio Windward Associates, LLC 25 Windward Drive Westerly, RI 02891

Prepared by:

Scott P. Rabideau, PWS

August 10, 2021

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Introduction

The applicant is seeking permission from the Coastal Resources Management Council (CRMC) to construct a 3-bedroom single family residence on property listed as A.P. 137, Lot 41 or 3 Setting Sun Drive in Westerly. The work includes the installation of an on-site wastewater treatment system (OWTS) recently approved by the Department of Environmental Management (DEM). As proposed, the project will require relief in the form of variances from the Coastal Resources Management Program's (CRMP) Buffer Zone (650-RICR-20-00-1; Section 1.1.11) and Setback (Section 1.1.9) standards.

Pursuant to Section 1.1.7 of the CRMP, applicants requiring a variance from any Program standard must make the request in writing and address each of the six (6) variance criteria listed in this section. Natural Resource Services, Inc. (NRS) has prepared this written narrative on behalf of Windward Associates, LLC, the applicant, in fulfillment of this requirement.

Proposed Residential Development

The applicant is seeking permission to construct a 3-bedroom single family dwelling with an attached garage on a 2.37 acre parcel situated on the south side of the intersection of Setting Sun Drive and Watch Hill Road in Westerly. The property does have access to a municipal water service and as such no residential well is required. However, since municipal sewer service is not available, an OWTS is necessary.

Existing Site Conditions

As previously noted, that parcel is 2.37 acres in size and maintains road frontage on both Setting Sun Drive and Watch Hill Road. The lot is primarily wooded and undeveloped. There is an area of open water within the interior of the property.

NRS field delineated the limit of a freshwater wetland within this parcel on February 27, 2017. The flag series labeled A1-A34, as represented on the enclosed site development plan, depicts the landward extent of a pond/marsh complex. A fringe of dense shrub and sapling growth surrounds this wetland. NRS identified this resource area as a freshwater wetland regulated by the DEM pursuant to the Rules and Regulations Governing the Administration and Enforcement of the Freshwater Wetlands Act.

A Preliminary Determination (PD) was filed with the CRMC in February, 2020. A coastal wetland associated with the Pawcatuck River abuts the north side of Watch Hill Road directly opposite the property. The proposed dwelling falls within 200 feet of this identified coastal wetland. The intent of the PD filing was to determine the regulatory extent of the CRMP over the subject property.

In the PD issued on March 2, 2020, the CRMC staff biologist made a determination that the freshwater wetland within the lot is tidally influenced and therefore qualifies for regulation as a coastal wetland pursuant to Section 1.2.2(c) of the CRMP.



There is a 24-inch culvert extending beneath Watch Hill Road which allows the exchange of water between these two areas.

NRS is of the opinion that this culvert connection does not result in tidal waters inundating the subject wetland. The invert of the culvert adjacent to the coastal marsh was determined by the project surveyor, Joseph Toscano, PLS, to be at elevation 1.07 (NGVD88). Watch Hill Road is at elevation 5.0 and the freshwater wetland on the subject property is at elevation 3.0 with typical water surface elevation EL 3.4 to EL 3.6. A 2-foot cut was needed on the south side of the Watch Hill Road culvert invert to allow water from the freshwater wetland to discharge into the Pawcatuck River. Any potential backflow of tidal water through the culvert would be contained within the constructed depression at the culvert invert and not dispersed into the freshwater wetland. This flows from the freshwater wetland would back up into the contributing wetland area.

However, based on the CRMC PD determination, a 150-foot buffer zone is applied to the wetland delineation within the subject property. The PD comments also contend that a low coastal bluff extends the regulated coastal feature beyond the delineated wetland edge. NRS does not agree with this determination and requests a new assessment of the coastal feature limits as part of this Application for Assent. The plans submitted with this application do not reflect any of the wetland delineation changes listed in the March 2, 2020 PD findings.

Variances Requested

The applicant has received an OWTS approval from the DEM to install a bottomless sand filter (BSF) at the southern corner of this rectangular lot. This is the only location within the 2.37 acre parcel where a suitable water table with native soils (non-fill) was available to support this advanced treatment system. The BSF is situated 51.7 feet from the wetland edge, however, the perimeter grading around the leachfield encroaches to within 29 feet of the wetland. As such, the applicant is requesting 121 feet of relief from the 150-foot buffer requirement (an 81 percent variance from the standard). Since the BSF is located 51 feet from the wetland, it requires a variance from the 175-foot setback standard. The applicant is requesting 124 feet of relief from the 175-foot setback requirement (a 71 percent variance from the standard).

While the OWTS location represents the project's closest encroachment to the NRS delineated coastal feature, the proposed dwelling also requires relief from the buffer zone and setback standards. The plan depicts an undisturbed 75-foot buffer zone around the dwelling. This represents a 50 percent reduction to the standard. The structure is proposed, at its closest point, 13.5 feet from the buffer zone, a 49 percent reduction.

Response to Variance Criteria

1. The proposed alteration conforms with applicable goals and policies of the Coastal Resources Management Program.



The applicant is proposing a relatively modest 3-bedroom home on a 2.37 acre parcel containing a contiguous freshwater wetland. This coastal wetland is adjacent to Type 2 waters along the Pawcatuck River. Type 2 waters are areas with high scenic value that support "low intensity recreational and residential uses". A 3-bedroom single family home on this parcel would be consistent with the Program's anticipated use surrounding Type 2 waters.

2. The proposed alteration will not result in significant adverse environmental impacts or use conflicts, including but not limited to, taking into account cumulative impacts.

The applicant has received an Insignificant Alteration permit from the DEM Freshwater Wetland Program. The plan which was reviewed and approved by the DEM included a larger 4-bedroom dwelling and OWTS. The permit allowed alterations for the dwelling to occur within 50 feet of the freshwater wetland. The OWTS grading and BSF location are consistent with the submitted CRMC plan. The CRMC plan increases the buffer zone around the dwelling to 75 feet.

The OWTS is an advanced treatment design. It requires a force main to carry the effluent from the treatment tank located adjacent to the house to the BSF. The proposed forcemain installation falls within the previous road/shoulder construction fill limits of the "Avondale Hills" platted subdivision (non-native soil fills are present – see testhole data presented within the approved OWTS plans).

Based on the reduction in size from the DEM approved plan, the utilization of an advanced treatment OWTS, and the careful placement of the force main, the project will not result in any significant adverse environmental impacts.

With regard to use conflicts, the applicant is proposing a single family home on property zoned for residential development. There is a commercial restaurant across Setting Sun Drive and a retail establishment on the north side of Watch Hill Road. However, a review of aerial photographs reveals the majority of the surrounding land use is for single family homes. As such, this project shall not result in any use conflicts.

3. Due to conditions at the site in question, the applicable standard(s) cannot be met.

It should be noted that the Town of Westerly previously merged the platted lots of record (Subdivision Lots 1 thru 4) for the subject parcel under consideration. The maximum extent of the coastal buffer zone and setbacks has been applied due to the prior merging of these lots. The Applicant – Windward Associates, LLC was not notified of the Town's merging of these lots in 1993. The proposed dwelling is sited on the prior subdivision lot – Lot #1 consisting of 40,200 +/- s.f. this has resulted in an additional hardship for the development of this parcel.

The request for both the buffer zone and setback variances are a direct result of the conditions which exist at the site. The OWTS is proposed at the only location where conditions were deemed acceptable through a site evaluation approved by the DEM.



Sufficient upland is not available adjacent to the BSF placement, which necessitates the dwelling being sited at the opposite side of the parcel. The force main is therefore necessary to carry the effluent to the leachfield.

There is sufficient upland available in the northern corner of the lot to support the 3-bedroom home. Since the parcel is only 150 feet wide, there is no opportunity to place a house anywhere on the property without the need for a buffer zone variance.

4. The modification requested by the applicant is the minimum variance to the applicable standard(s) necessary to allow a reasonable alteration or use of the site.

As previously noted, the location for the OWTS is necessary to support the leachfield. The project engineer designed the leachfield as a BSF to minimize the footprint and reduce the variance request and to also eliminate a variance request from the OWTS regulations. The buffer zone and setback variances sought for the OWTS and sewer force main are necessary to allow for the use of the property for a single family dwelling.

The applicant has reduced the size of the proposed residence to minimize both the buffer zone and setback relief sought. The home is modest while still keeping in relative conformance with the surrounding neighborhood. The relief to the two standards allows for this reasonable use.

5. The requested variance to the applicable standard(s) is not due to any prior action of the applicant or the applicant's predecessors in title. With respect to subdivisions, the Council will consider the factors as set forth in § 1.1.7(B) of this Part below in determining the prior action of the applicant.

The property is a lot of record in the Town of Westerly. There has been no action by the current owner or the predecessor in title which resulted in the need for seeking either the buffer zone or setback variance. The Town of Westerly through its prior merging of the platted subdivision lots 1 to 4 has created the current buffer zone and setback requirements.

6. Due to the conditions of the site in question, the standard(s) will cause the applicant an undue hardship. In order to receive relief from an undue hardship an applicant must demonstrate inter alia the nature of the hardship and that the hardship is shown to be unique or particular to the site. Mere economic diminution, economic advantage, or inconvenience does not constitute a showing of undue hardship that will support the granting of a variance.

The applicant is seeking an 81 percent reduction in the buffer zone standard and a 71 percent reduction in the setback standard in order to install an advanced treatment OWTS in the southern corner of the lot. This is the only location within the 2.37 acre parcel where soil conditions were determined to be suitable for the placement of the leachfield. If the CRMC were to deny the relief requested, the applicant would not be



able to construct any residence on the property and thereby suffer an undue hardship. The Town's merging of the prior platted subdivision lots has also resulted in a hardship when applying the minimum buffer and setback requirements.

A suitable location for the dwelling is located at the opposite side of the parcel. This places the home at the intersection of Watch Hill Road and Setting Sun Drive. The required stormwater management feature (rain garden) and the advanced treatment septic tank are each located within the town mandated 25-foot front yard setback. The residence is situated immediately behind each of these features. This represents the only location available which can support a modest 3-bedroom dwelling. If the buffer zone and setback variances for the home are not granted, the applicant would not be able to use the property for its locally zoned purpose and thereby suffer an undue hardship.





RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES

235 Promenade Street Providence, Rhode Island 02908

December 16, 2019

Windward Associates, LLC c/o Gary Guastamachio 25 Windward Drive Westerly, RI 02891



Insignificant Alteration - Permit

Re: Application No. 19-0287 in reference to the location below:

Approximately 100 feet west of Setting Sun Drive, Utility Pole (NECO) 1, approximately 120 feet southwest of its intersection with Watch Hill Road, Assessor's Plat 137, Lot 41, Westerly, RI

Dear Mr. Guastamachio:

Kindly be advised that the Department of Environmental Management's ("DEM") Freshwater Wetlands Program ("Program") has completed its review of your Request for Preliminary Determination application. This review included a site inspection of the above referenced property ("subject property") and an evaluation of the proposed four (4)-bedroom single-family residence, attached garage, crushed stone driveway, on-site wastewater treatment system (OWTS), and rain garden stormwater bioretention facility as illustrated and detailed on site plans submitted with your application. These site plans were received by the DEM on October 1, 2019.

Our observations of the subject property, review of the site plans and evaluation of the proposed project reveals that alterations of freshwater wetlands are proposed. However, pursuant to 250-RICR-150-15-1.9 of the Rules and Regulations Governing the Administration and Enforcement of the Fresh Water Wetlands Act, 250-RICR-150-15-1, this project may be permitted as an **insignificant alteration** to freshwater wetlands under the following terms and conditions:

Terms and Conditions for Wetlands Application No. 19-0287:

- 1. This letter is the DEM's permit for this project under the R.I. Fresh Water Wetlands Act, R.I. Gen. Laws § 2-1-18 et seq.
- 2. This permit is specifically limited to the project, site alterations and limits of disturbance as detailed on the site plans submitted with your application and received by the DEM on October 1, 2019. A copy of the site plans stamped approved by the DEM is enclosed. Changes or revisions to the project that would alter freshwater wetlands are not authorized without a permit from the DEM.
- 3. Where the terms and conditions of the permit conflict with the approved site plans, these terms and conditions shall be deemed to supersede the site plans.



- 4. You must notify this Program in writing of the anticipated start date, and of your contractor's contact information, by submitting the <u>Notice of Start of Construction Form</u> prior to commencement of any permitted site alterations or construction activity. You must also notify this Program in writing upon completion of the project. The Start of Construction Form can be found on the webpage: dem.ri.gov/stormwaterconstruction.
- 5. A copy of the stamped approved site plans and a copy of this permit must be kept at the site at all times during site preparation, construction, and final stabilization. Copies of this permit and the stamped approved plans must be made available for review by any DEM or town representative upon request.
- 6. Within ten (10) days of the receipt of this permit, you must record this permit in the land evidence records of the Town of Westerly and supply this Program with written documentation obtained from the Town showing this permit was recorded.
- 7. The effective date of this permit is the date this letter was issued. This permit expires four (4) years from the date of this letter unless renewed pursuant to the Rules.
- 8. Any material utilized in this project must be clean and free of matter that could pollute any freshwater wetland.
- 9. Prior to commencement of site alterations, you shall erect or post a sign resistant to the weather and at least twelve (12) inches wide and eighteen (18) inches long, which boldly identifies the initials "DEM" and the application number of this permit. This sign must be maintained at the site in a conspicuous location until such time that the project is complete.
- 10. Temporary erosion and sediment controls detailed or described on the approved site plans shall be properly installed at the site prior to or commensurate with site alterations. Such controls shall be properly maintained, replaced, supplemented, or modified as necessary throughout the life of this project to minimize soil erosion and to prevent sediment from being deposited in any wetlands not subject to disturbance under this permit. Please note that haybales are no longer an approved measure. Please refer to the Rhode Island Soil Erosion and Sediment Control Handbook http://www.dem.ri.gov/programs/bnatres/water/pdf/riesc-handbook16.pdf.
- 11. Upon permanent stabilization of all disturbed soils, temporary erosion and/or sediment controls must be removed.
- 12. You are obligated to install, utilize and follow all best management practices detailed or described on the approved site plans in the construction of the project to minimize or prevent adverse impacts to any adjacent freshwater wetlands and the functions and values provided by such wetlands.
- 13. This Program has made specific revisions to the approved site plans. These revisions are clearly marked in red on the approved plans. Specifically, disturbed soils associated with the force main installation should be seeded with an appropriate conservation seed mix as indicated on the site plan notes and planted with shrubs comprised of at least one of the following species: Rosebay Rhododendron (Rhododendron maximum), Inkberry (Ilex glabra) Highbush Blueberry (Vaccinium corymbosum), or S. Arrowwood (Viburnum dentatum) (depending on soil conditions), at least 3 feet tall after plantings and approximately 6 feet on center in the areas indicated on the site plans. This project must take place in compliance with these revisions.



- 14. All plantings of shrubs, trees or other forms of vegetation as shown or detailed on the approved plans, or detailed in this permit, must be installed as soon as possible after completion of final grading; weather and season permitting.
- 15. Any plantings which fail to survive one full growing season shall be replaced. Replacement plantings shall be similarly guaranteed for one full growing season.
- 16. For crushed stone driveway construction, the crushed stone must be ¾-inch to 1½ inch diameter, washed, angular crushed stone installed to a minimum depth of 3-inches with the grade of the finished driveway not higher than the adjacent ground elevation.
- 17. This permit supersedes a previous permit issued by the DEM for the subject property under Application No. 18-0338.

Pursuant to the provisions in 250-RICR-150-15-1.7(A)(9) and 250-RICR-150-15-1.11(D), as applicable, any properly recorded and valid permit is automatically transferred to the new owner upon sale of the property.

You are required to comply with the terms and conditions of this permit and to carry out this project in compliance with the Rules at all times. Failure to do so may result in an enforcement action by this Department.

In permitting the proposed alterations, the DEM assumes no responsibility for damages resulting from faulty design or construction.

Kindly be advised that this permit is not equivalent to a verification of the type or extent of freshwater wetlands on site. Should you wish to have the types and extent of freshwater wetlands verified, you may submit the appropriate application in accordance with 250-RICR-150-15-1.8(C).

This permit does not remove your obligation to obtain any local, state, or federal approvals or permits required by ordinance or law and does not relieve you from any duties owed to adjacent landowners with specific reference to any changes in drainage. Please note that pursuant to communication with the Coastal Resources Management Council (CRMC), the wetland on-site contains salt-marsh species near the culvert on Watch Hill Road. Accordingly, please contact CRMC at (401)783-3370 to determine CRMC permitting requirements.

Please contact Rene Legault of this office (telephone: 401-222-4700, ext. 7732) should you have any questions regarding this letter.

Sincerely,

Nancy L. Freeman, Principal Environmental Scientist

Nancy L. Freeman

Office of Water Resources Freshwater Wetlands Program

NLF/RJL/rjl

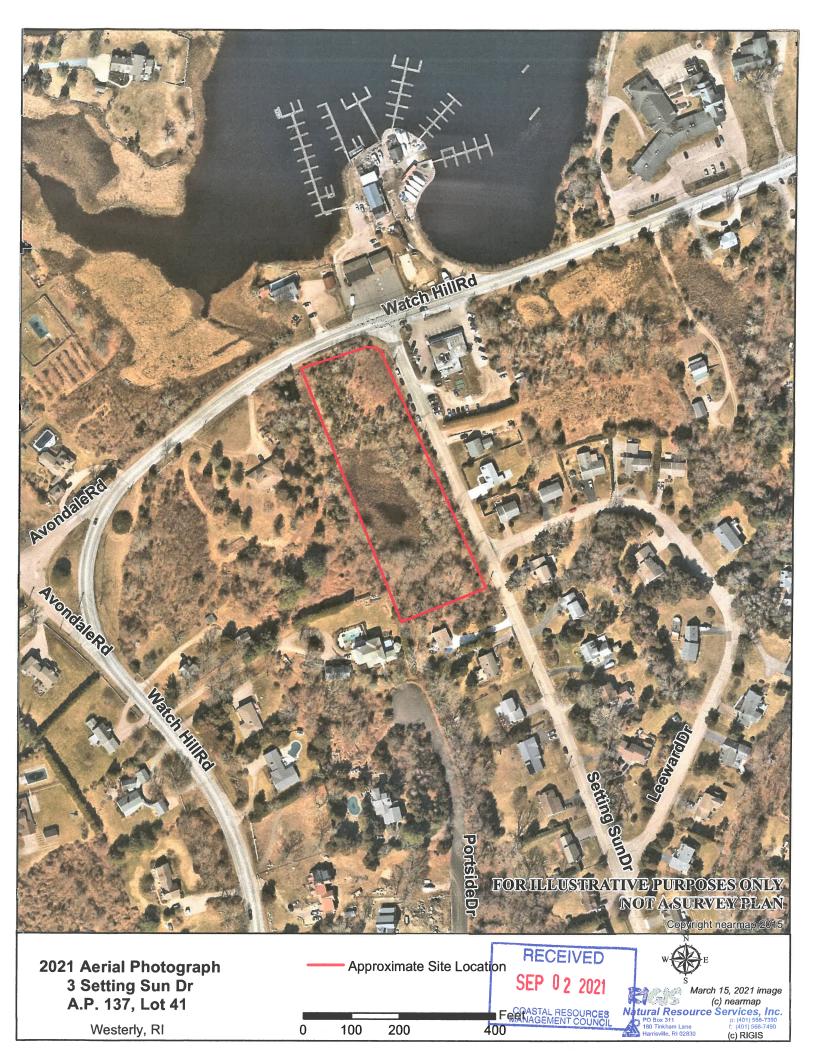
Enclosure: Approved site plans

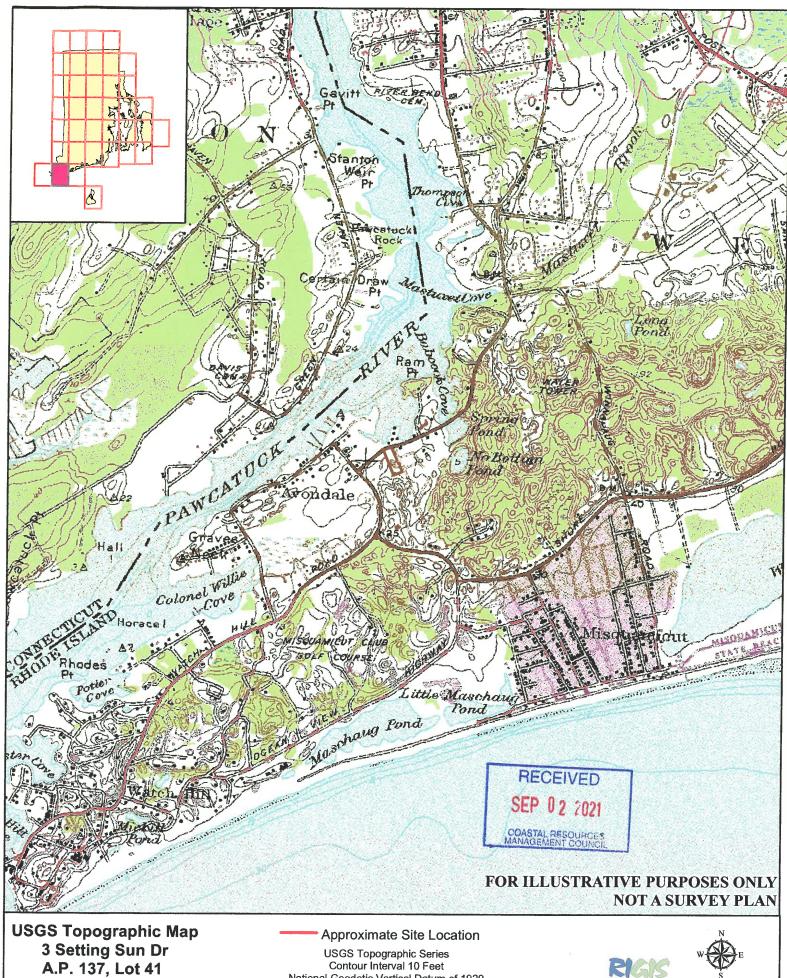
ec: Tim Motte, CRMC Permitting Program
Martin D. Wencek, DEM Freshwater Wetlands Program Supervisor
Mohamed Freij, DEM OWTS Program
David Murphy, Westerly Building Official
Paul D. LeBlanc, LeBlanc Engineering, LLC.
Scott P. Rabideau, President, Natural Resource Services, Inc.

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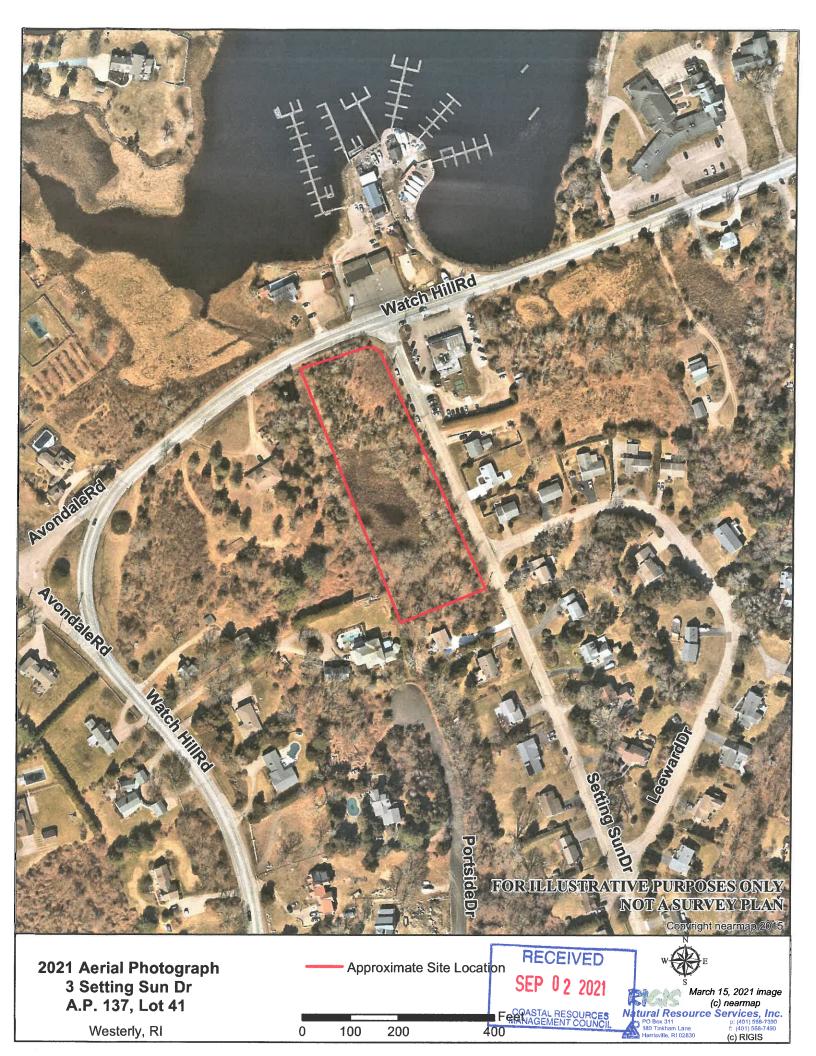




Westerly, RI Watch Hill Quad Map National Geodetic Vertical Datum of 1929

■ Feet 1,000 2,000 4,000

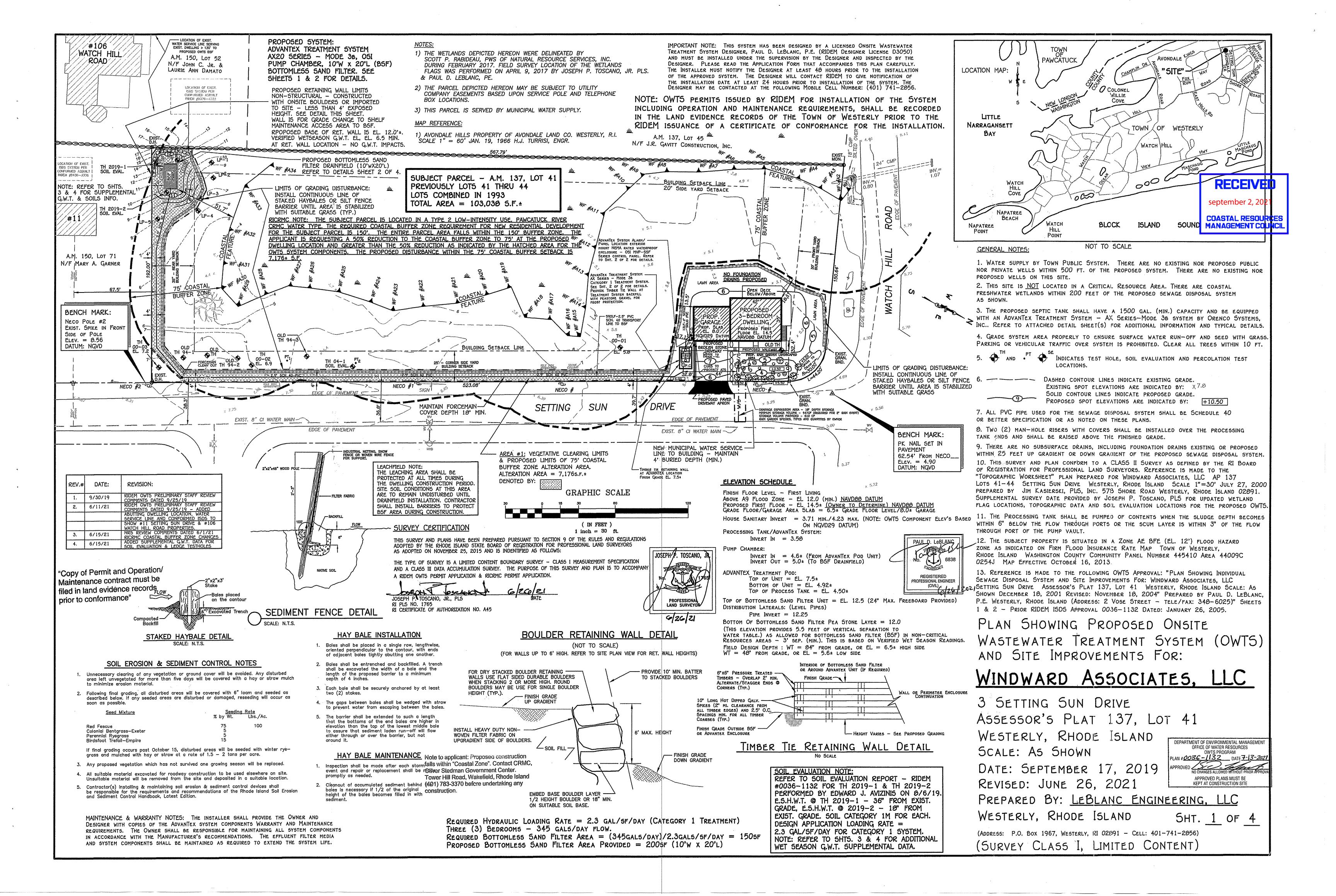


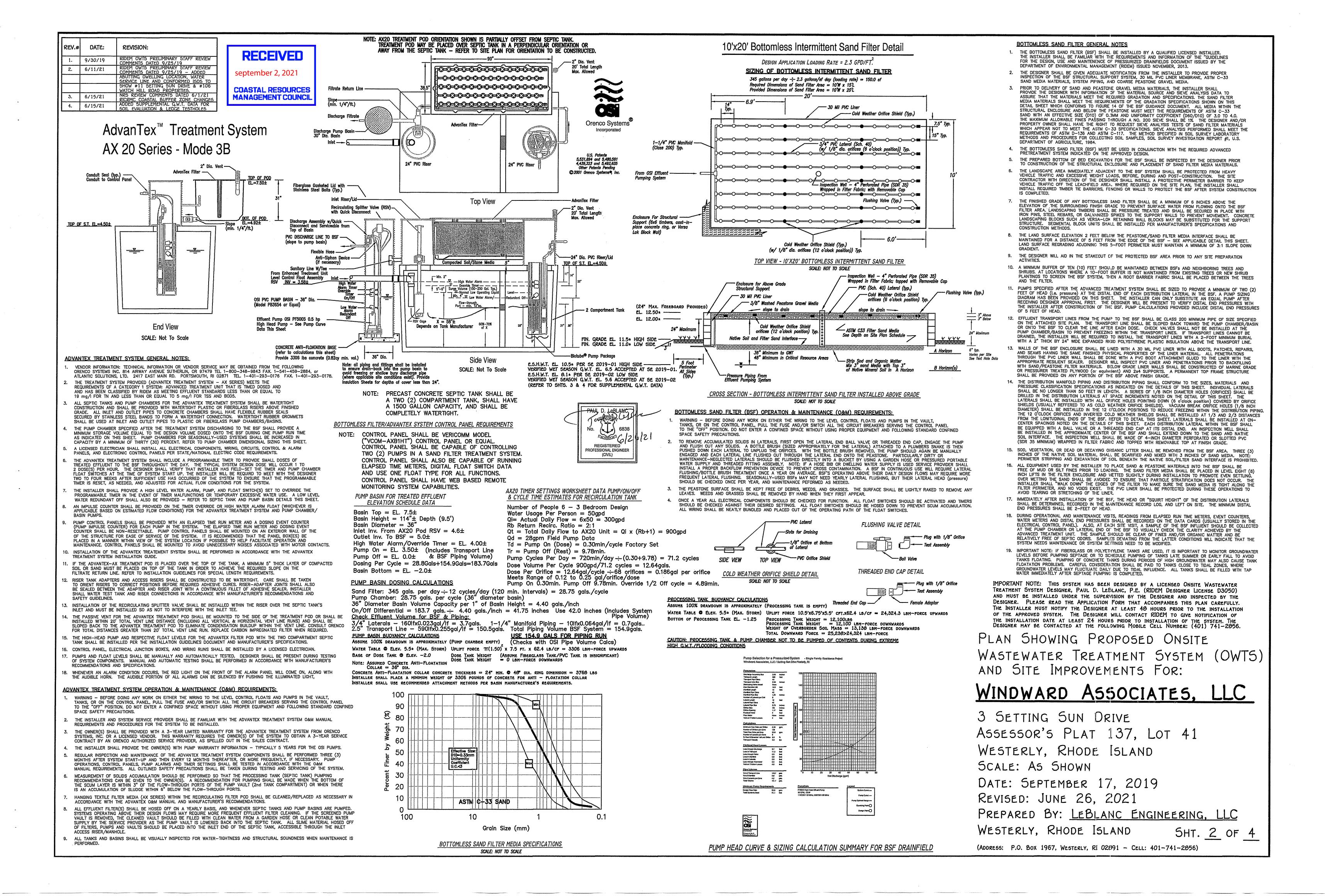


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ONSITE WASTEWATER TREATMENT SYSTEM CONSTRUCTION PERMIT RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

7.15-702





REV.#	DATE:	REVISION:
1.	9/30/19	RIDEM OWTS PRELIMINARY STAFF REVIEW COMMENTS DATED 9/25/19
2.	6/11/21	RIDEM OWTS PRELIMINARY STAFF REVIEW COMMENTS DATED 9/25/19 - ADDED
		ABUTTING DWELLING LOCATION, WATER SERVICE LINE AND CONFORMED ISDS TO
		5HOW #11 5ETTING SUN DRIVE & #106 WATCH HILL ROAD PROPERTIES.
3,	6/15/21	NRS REVIEW COMMENTS DATED 6/1/21 RICRMC COASTAL BUFFER ZONE CHANGES
4,	6/15/21	ADDED SUPPLEMENTAL G.W.T. DATA FOR

SUPPLEMENTAL GROUNDWATER TABLE (G.W.T.) DATA WET SEASON VERIFIED PERIOD 11/4/2019 THRU 5/31/2021

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september 2, 2021
COASTAL RESOURCES MANAGEMENT COUNCIL

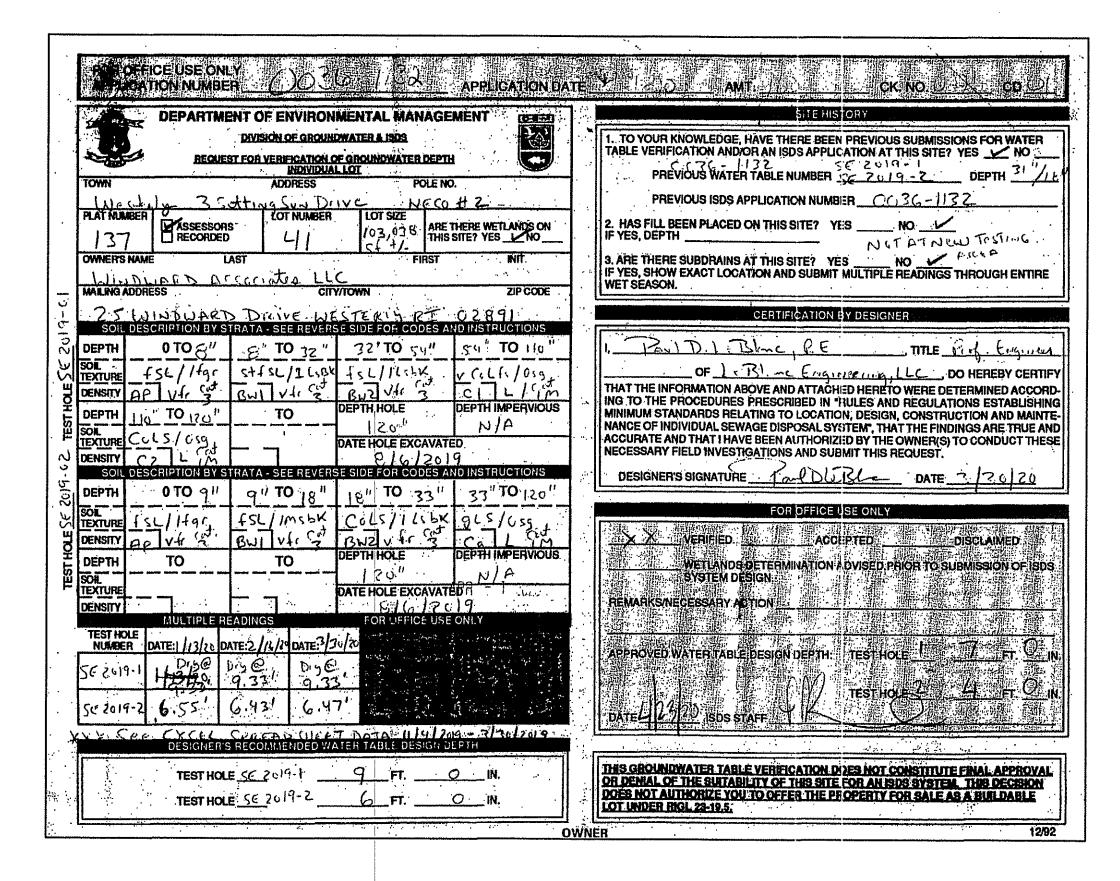
13 SETTING SUN E N.P. 137 , LOT 41								<u> </u>
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				2/23/2020		9.83	4.15	9.33 Dry - No Sign of GWT Within Pip
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				3/8/2021	118	9.83	4.15	9.33 Dry - No Sign of GWT Within Pip
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				4/26/2021	118	9,83	4.15	9.33 Dry - No Sign of GWT Within Pip
				5/3/2021	118	9,83	4,15	9.33 Dry - No Sign of GWT Within Pip
				5/10/2021	118	9.83	4.15	9.33 Dry - No Sign of GWT Within Plp
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				5/31/2021	118	9.83	4.15	9.33 Dry - No Sign of GWT Within Pip 9.33 Dry - No Sign of GWT Within Pip
SE 2019-2	8/6/2019	11,15	9,7	11/4/2019	97	80.8	3.07	6.63
				12/3/2019 12/16/2019	94 92	7.83 7.67	3.32 3.48	6.38 6.22
	 		 	1/13/2020	96	8.00	3.15	6.55
		-		1/20/2020	97	8.08	3.07	6.63
				1/26/2020	96	8.00	3.15	6.55
				2/10/2020	96	8.00	3.15	6.55
				2/16/2020	94.5	7.88	9.28	6.43
				2/23/2020 2/29/2020	98 97	8.17 8,08	2.98 3.07	6.72 6.63
				3/7/2020	97	80.8	3.07	6.63
				3/15/2020	99.5	8.29	2.86	6.84
				3/21/2020	99	8.25	2.90	6,80
				3/30/2020	95	7.92	3.23	6.47
				4/17/2020	93.5	7.79	3.36	6.34
				2/15/2021	98.5	8.21	2,94	6.76 6.73
				2/22/2021 3/1/2021	98 99	8.17 8.25	2.98 2.90	6.72 6.80
***************************************	***************************************			3/8/2021	99,5	8.29	2.86	6,84
•				3/15/2021	98.5	8.21	2.94	6.76
				3/22/2021	99	8.25	2.90	6,80
				3/29/2021	99.5	8.29	2,86	6.84
	,			3/30/2021	99,5	8,29	2.86	6.84
		····		4/5/2021	100.5	8.33 8.39	2,82 2,78	6.88 6.93
				4/12/2021 4/19/2021	99,5	8.38 8.29	2.78 2.86	6.94 6.84
				4/26/2021	99	8.25	2,90	6.80
				5/3/2021	99.5	8.29	2.86	6.84
				5/10/2021	99.5	8.29	2.86	6.84
				5/17/2021	98	8.17	2.98	6.72
				5/24/2021	97.5	8.13	3.03	6.68
				5/31/2021	96	8.00	3.15	6.55

LOCATION OF	DATE HOLE	TOP OF PIPE	EXISTING GROUND	1	DEPTH TO G.W.T. D		G.W.T. Depth	DEPTH TO	COMMENT:
READING	EXCAVATED	ELEVATION DATUM NGDV29	SURFACE ELEV.	G.W.T. READING	FROM TOP OF PIPE (Inches)	FROM TOP OF PIPE (Feet)	ELEV. (EL =)	G.W.T. FROM EXIST. GRADE	
LP-3	11/25/2019	8.97			70	5.83		1,74	
				12/16/2019	68	5.67	3.30	1.58	
				1/13/2020	77.5	6,46	1	2.37	
			i	1/20/2020	78	6.50		2.41	
			İ	1/26/2020	69	5.75		1.66	
				2/10/2020	71.5	5.96	3.01	1.87	
				2/16/2020	68.5	5.71	3.26	1.62	
			1	2/23/2020	73	6.08		1.99	
				2/29/2020	69.5	5.79		1.70	
				3/7/2020	75	6.25	2.72		
				3/15/2020	73.5	6,13	2.85	2.04	
				3/21/2020 3/30/2020	71	5.92		1.83	
				4/17/2020	67.5 69	5.63 5.75		1.54 1.66	
				2/15/2021	78	5.73 6.50		2.41	
				2/22/2021	77	6.42		2,33	
				3/1/2021	78.5	6.54	2.43	2.45	
				3/8/2021	79.5	6.63	1	2.54	
				3/15/2021	78	6.50		2.41	
				3/22/2021	77.5	6.46	2.51	2.37	
				3/29/2021	78	6,50	2.47	2.41	
				3/30/2021	77.5	6.46	t e	2.37	
				4/5/2021	08	6.67	2.30	2.58	
				4/12/2021	81	6.75		2.66	
				4/19/2021	79	6.58	2.39	2,49	
				4/26/2021	77.5	6.46		2.37	
				5/3/2021	78	6.50	1	2.41	
				5/10/2021	76	6.33	2.64	2,24	
				5/17/2021 5/24/2021	75.5 74	6.29 6.17	2.68 2.80	2.20 2.08	
			***************************************	5/31/2021	72.5	6,04	2.93	1.95	
***************************************			·		7 613				· · · · · · · · · · · · · · · · · · ·
LP-4	11/25/2019	9.29	5.93	12/3/2019	70	5.83	3.46	2.47	
- '	,,	2	2.02	12/16/2019	67	5.58	3.71	2.22	
				1/13/2020	72	6.00	3.29	2.64	
***************************************				1/20/2020	72.5	6.04	3.25	2.68	
*****				1/26/2020	68	5,67	3,62	2.31	
				2/10/2020	73	6,08	3,21	2.72	
				2/16/2020	69,5	5.79	3.50	2.43	
		*****************************		2/23/2020	75	6,25	3.04	2,89	*******
				2/29/2020	72.5	6.04	3.25	2.68	
				3/7/2020	74	6.17	3.12	2.81	
				3/15/2020	71.5	5.96	3.33	2,60	
				3/21/2020	73	6.08	3.21	2.72	
	· · · · · · · · · · · · · · · · · · ·			3/30/2020	68.5	5.71 5.83	3.58 3.46	2.35	
				4/17/2020	70 73	6.08	3.46 3.21	2,47	
				2/15/2021	72	6.00	3,29	2.72	
				2/22/2021 3/1/2021	72.5	6.13		2.64 2.77	
				3/8/2021	74.5	6.21	3.08	2.85	
				3/15/2021	73	6,08	3.21	2.72	
				3/22/2021	75	6.25	3.04	2.89	
				3/29/2021	75.5	6.29	3.00	2.93	
				3/30/2021	74.5	6.21	3.08	2.85	
				4/5/2021	75.5	6.29	3.00	2.93	
				4/12/2021	76	6.33	2.96	2.97	
				4/19/2021	75	6.25	3.04	2.89	
				4/26/2021	74	6.17	3.12	2.81	
	************************			5/3/2021	74.5	6,21	3.08	. 2.85	
				5/10/2021	75	6,25	3,04	2.89	***
		ĺ		5/17/2021	73.5	6,13	3.17	2.77	
				5/24/2021	72.5	6.04	3.25	2.68	
			į	5/31/2021	72	6.00.	3.29	2.64	
LOCATION OF	DATEROLE	TOD OF 0105	EVICTING COOLING		DESTRICT OF MET IN		CHIT Domb	DEBTILTO	COLALACITE

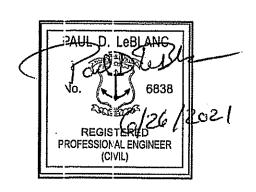
DEPTH TO G.W.T. DEPTH TO G.W.T. G.W.T. Depth DEPTH TO

			T			1	T		
LOCATION OF	DATE HOLE	TOP OF PIPE	EXISTING GROUND D	ATE OF	DEPTH TO G.W.T. D	EPTH TO G.W.T.	G.W.T. Depth	DEPTH TO	COMMENTS
READING	EXCAVATED	ELEVATION	SURFACE ELEV.	G.W.T.	FROM TOP OF	FROM TOP OF	ELEV.	G.W.T. FROM	COMMING
		DATUM NGDV29	······································	READING	PIPE (Inches)	PIPE (Feet)	(EL =)	EXIST. GRADE	**************************************
LP-1	11/25/2019	11.83	9.03	12/3/2019	105.5	8.79	3.04	5.99	
` '				12/16/2019	103	8.58	3.25	5.78	
				1/13/2020	105.5	8.79		5.99	
				1/20/2020	108	9.00	2.83	6.20	
				1/26/2020	110	9.17	2.66	6.37	
				2/10/2020	107	8.92	2,91	6.12	
				2/16/2020	107	8.92		6.12	
			·	2/23/2020	109 108.5	9.08	2.75 2.79	6.28 6.24	
				2/29/2020 3/7/2020	108.5	8.92	2.91	6.12	***************************************
				3/15/2020	110	t	2.66	5.37	
				3/21/2020	109.5	1	2,71	6.33	
				3/30/2020	105	8.75	3.08	5.95	
				4/17/2020	105.5	8.79	3.04	5,99	
				2/15/2021	106.5	8.88	2.96	6.08	
				2/22/2021	106	8,83	3.00	6.03	
				3/1/2021	107	8.92	2. 9 1	6.12	
				3/8/2021	108	9.00	2.83	6.20	
				3/15/2021	107	8.92	2,91	6.12	
				3/22/2021	107.5	8.96	2,87	6.16	
				3/29/2021	108.5	9.04	2.79	6.24	
				3/30/2021	108.5	9,04	2.79	6.24	
				4/5/2021 4/12/2021	109 110	9.08 9.17	2,75 2,66	6.28 6.37	,
				4/19/2021	108.5	9.04	2.79	6.24	
				4/26/2021	108	9.00	2.83	6.20	
				5/3/2021	108.5	9.04	2.79	6,24	
				5/10/2021	108	9.00	. 2.83	6.20	
				5/17/2021	106.5	88,8	2.96	6,08	
				5/24/2021	106	8.83	3.00	6.03	
				5/31/2021	105.5	8.79	3.04	5.99	
LP-2	11/25/2019	9.78	7.08	12/3/2019	79	6.58	3.20	3.88	
				12/16/2019	78 81	6.50	3.28 3.03	3.80	
				1/13/2020 1/20/2020	81.5	6.75 6.79	2.99	4.05 4.09	
				1/26/2020	80,5	6.71	3.07	4.01	
			ļ	2/10/2020	82	6.83	2.95	4.13	
				2/16/2020	79.5	6.63	3,16	3.93	**** **** **** ***** *****
				2/23/2020	85.5	7.13	2.66	4,43	
			Ì	2/29/2020	83	6.92	2.86	4.22	
				3/7/2020	86	7.17	2.61	4,47	
				3/15/2020	85	7.08	2.70	4,38	
		***************************************		3/21/2020	82.5	6,88	2.91	4.18	
				3/30/2020	79	6.58	3.20	3.88	
				4/17/2020	80	6.67	3.11	3.97	
				2/15/2021	84	7.00	2.78	4.30	
				2/22/2021 3/1/2021	83.5 83.5	6.92 6.96	2.86 2.82	4.22 4.26	
				3/8/2021	84.5	7.04	2.74	4.34	
				3/15/2021	83.5	6.96	2,82	4.26	
				3/22/2021	84	7.00	2.78	4.30	
				3/29/2021	85	7.08	2.70	4.38	
				3/30/2021	84.5	7.04	2,74	4.34	
			1	4/5/2021	86	7.17	2.61	4,47	
		ļ		4/12/2021	86.5	7.21	2.57	4.51	
	***************************************			4/19/2021	85	7,08	2.70	4.38	
				4/26/2021	84.5	7.04	2.74	4.34	
				5/3/2021	85	7.08	2.70	4.38	
				5/10/2021	85.5	7.13	2.66	4.43	
				5/17/2021	84	7.00	2.78	4.30	
				5/24/2021 5/31/2021	83 81.5	6.92 6.79	2.86 2.99	4.22 4.09	
		3		2/21/2021	97.51	6.791	2. 3 9	4.09	

LOCATION OF READING	DATE HOLE EXCAVATED	TOP OF PIPE ELEVATION DATUM NGDV29	EXISTING GROUND D. SURFACE ELEV. READING (EL)	ATE OF G.W.T. READING	DEPTH TO G.W.T. D FROM TOP OF PIPE (Inches)	EPTH TO G.W.T. FROM TOP OF PIPE (Feet)	G.W.T. Depth ELEV. (EL ≃)	DEPTH TO G.W.T. FROM EXIST. GRADE	COMMENTS
LP-5	11/25/2019	11.8	8.18	12/3/2019		8.33	3.50	4.68	
				12/16/2019		7.96	3.87	4.31	
				1/13/2020		8.29	3.54	4.64	
				1/20/2020	: 1	8.33	3.50	4.68	
	******************************			1/26/2020	100,5	8.38	3.46	4.73	
				2/10/2020		8.67	3.16	5,02	······································
				2/16/2020		8.42	3.41	4.77	
				2/23/2020		8.75	3,08	5.10	
				2/29/2020		8.54	3.29	4.89	
	······			3/7/2020		8.63	3,21	4.98	
		·····		3/15/2020		8.75	3.08	5.10	
				3/21/2020		8.58	3.25	4.93	
				3/30/2020		8.04	3.79	4.39	
				4/17/2020		8.29	3.54	4.64	
				2/15/2021	103.5	8,63	3.21	4.98	
······································				2/22/2021	102	8.50	3.33	4,85	
				3/1/2021	104	8.67	3.16	5.02	
				3/8/2021		8.75	3.08	5.10	
				3/15/2021	103.5	8.63	3,21	4.98	
				3/22/2021	104.5	8.71	3.12	5,06	····
				3/29/2021	105	8.75	3.08	5,10	
				3/30/2021	105	8.75	3.08	5.10	
				4/5/2021	105.5	8.79	3.04	5.14	
				4/12/2021	105.5	8.79	3.04	5.14	
			·····	4/19/2021	104	8.67	3,16	5.02	
				4/26/2021	103	8.58	3.25	4.93	
				5/3/2021	104	8,67	3.16	5.02	
				5/10/2021	103.5	8.63	3.21	4.98	
				5/17/2021	102.5	8.54	3.29	4,89	
				5/24/2021	102	8.50	3.33	4.85	
		***************************************		5/31/2021	100	8.33	3,50	4.68	
** NOTE: DATA RA	NGE FOR READ E.S.H.	G.W.T. IS FROM NOV	CVE REFERENCED TEST H EMBER 4, 2019 TO APR EMBER 3, 2019 TO APRI	L 17, 2020& F	EBRUARY 15, 2021 TO				



ACCEPTED VERIFIED 5.H.G.W.T. @ 5E 2019-01 & 2019-02 SUPERSEEDS SOIL EVALUATION E.S.H.G.W.T. ON SHEET 4 OF 4



PLAN SHOWING PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) AND SITE IMPROVEMENTS FOR:

WINDWARD ASSOCIATES, LLC

3 SETTING SUN DRIVE ASSESSOR'S PLAT 137, LOT 41 WESTERLY, RHODE ISLAND

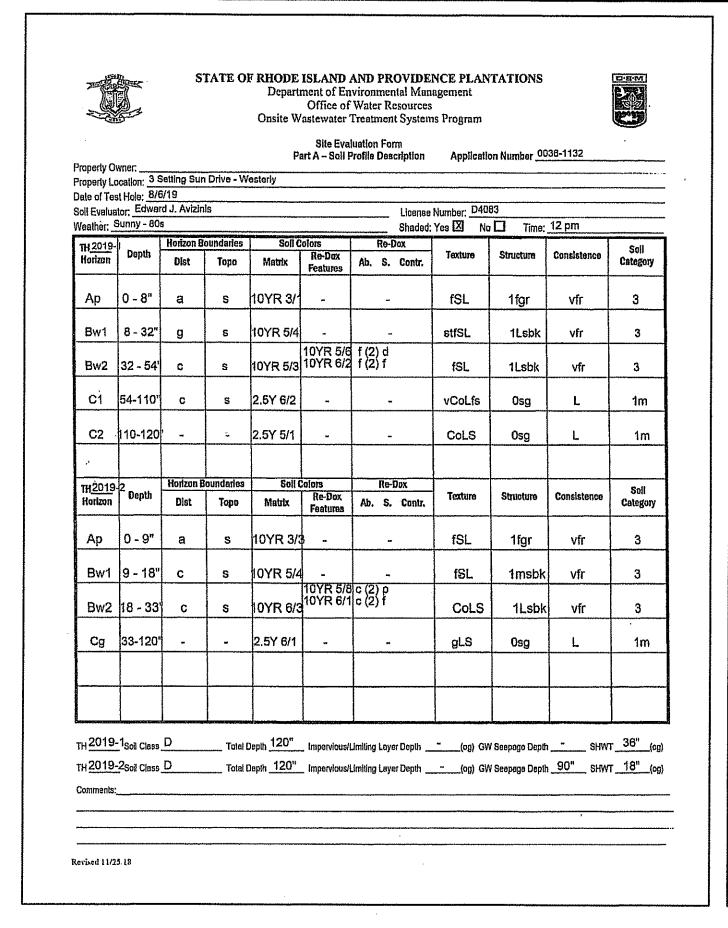
SCALE: AS SHOWN
DATE: JUNE 26, 2021

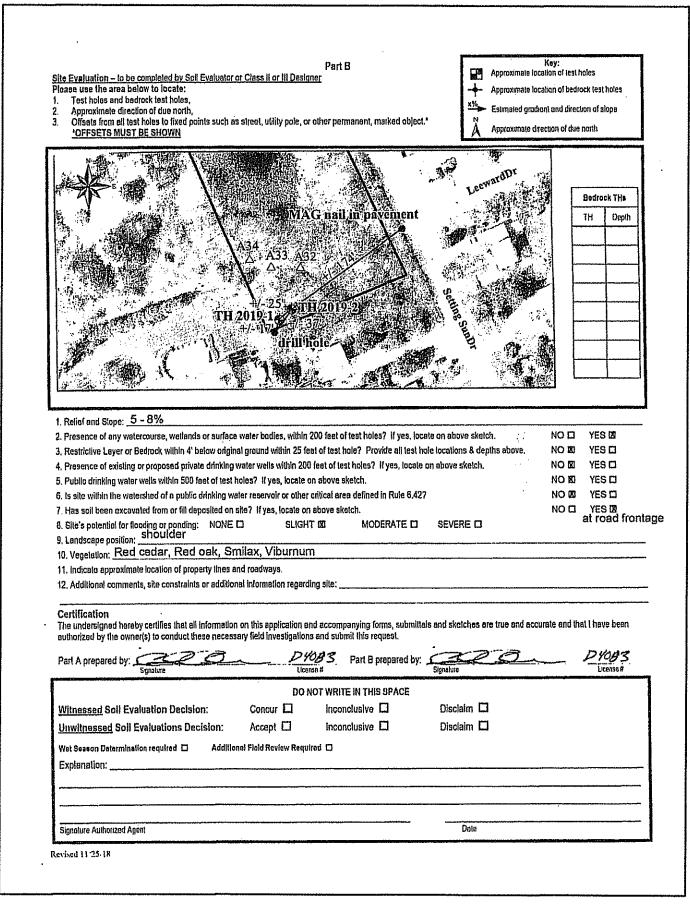
REVISED:

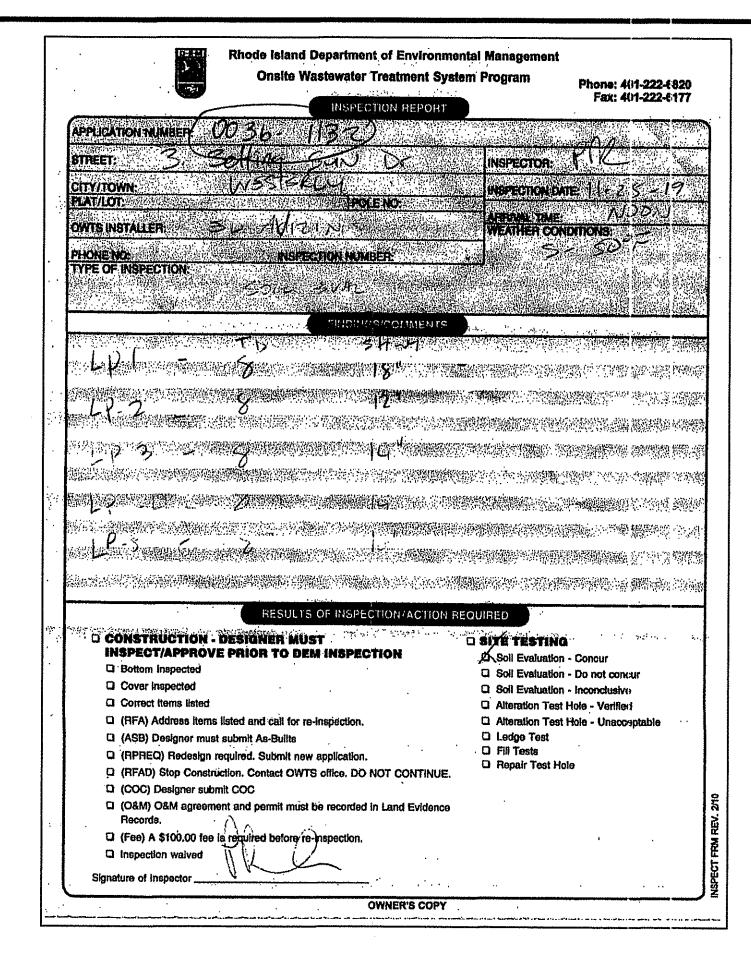
PREPARED BY: <u>LEBLANC ENGINEERING</u>, <u>LLC</u>
WESTERLY, RHODE ISLAND SHT. 3 OF 4

(ADDRESS: P.O. BOX 1967, WESTERLY, RI 02891 - CELL: 401-741-2856)

REV.#	DATE:	REVISION:
1.	9/30/19	RIDEM OWTS PRELIMINARY STAFF REVIEW COMMENTS DATED 9/25/19
2.	6/11/21	RIDEM OWTS PRELIMINARY STAFF REVIEW COMMENTS DATED 9/25/19 - ADDED
	·	ABUTTING DWELLING LOCATION, WATER SERVICE LINE AND CONFORMED ISDS TO
		SHOW #11 SETTING SUN DRIVE & #106 WATCH HILL ROAD PROPERTIES.
3.	6/15/21	NRS REVIEW COMMENTS DATED 6/1/21 RICRMC COASTAL BUFFER ZONE CHANGES
4.	6/15/21	ADDED SUPPLEMENTAL G.W.T. DATA FOR

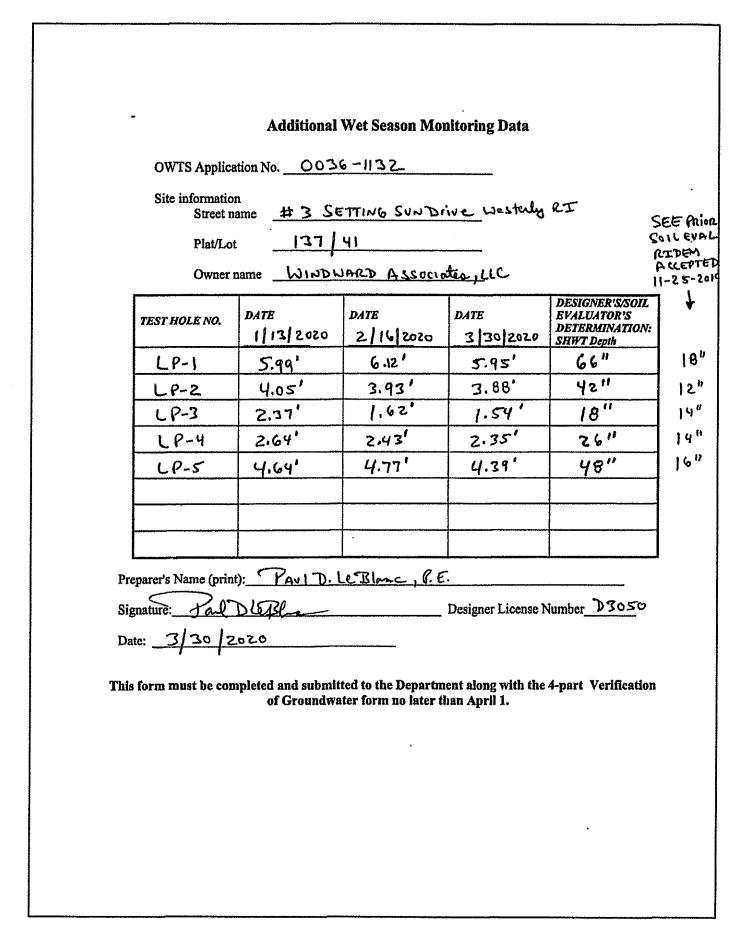






SOIL EVALUATION REPORT FOR SE 2020-01 & SE 2020-02 RESULTS REPLACED BY ACCEPTED WET SEASON VERIFIED READINGS SEE SHT 3 OF 4.

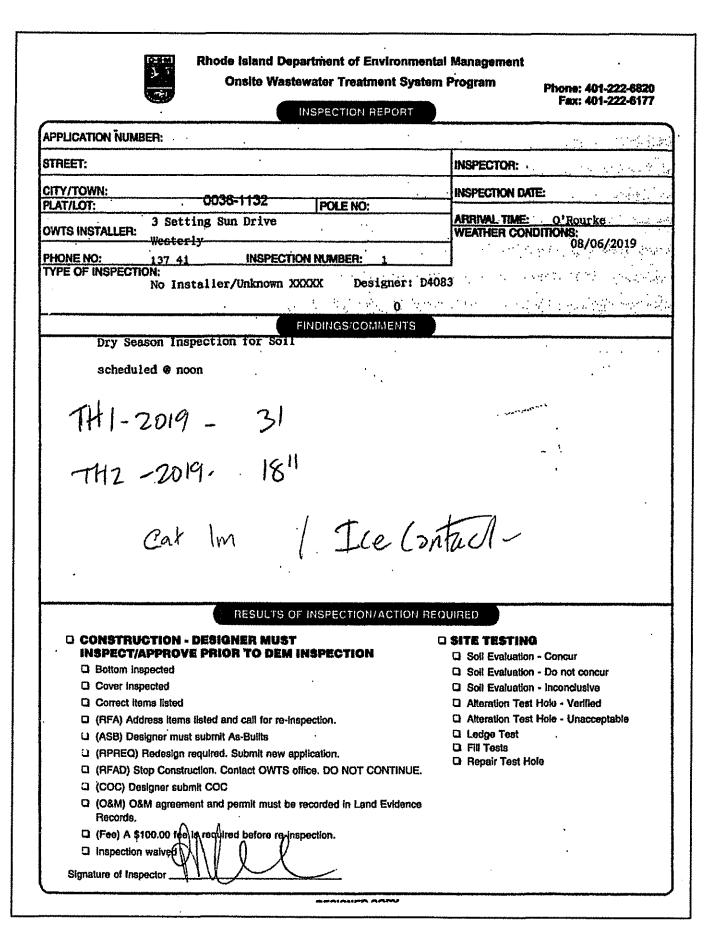
RIDEM E.S.H.W.T. @ LEDGE TESTHOLES LP-1 THRU LP-5
RESULTS REPLACED BY ACCEPTED WET SEASON VERIFIED READINGS THIS SHT.



DESIGNER'S WET SEASON VERIFIED G.W.T. @

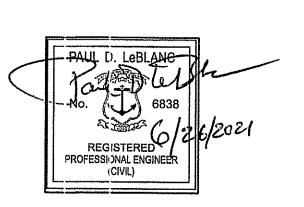
LEDGE TESTHOLES LP-1 THRU LP-5

ACCEPTED BY RIDEM TO REPLACE E.S.H.G.W.T. READINGS 11.25.2019



RIDEM E.S.H.G.W.T. FOR SE-2019-01 & SE-2019-02 NOTE: SUPERSEEDED BY WET SEASON VERIFIED READINGS SEE SHEET 3 OF 4.





PLAN SHOWING PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) AND SITE IMPROVEMENTS FOR:

WINDWARD ASSOCIATES, LLC

3 SETTING SUN DRIVE ASSESSOR'S PLAT 137, LOT 41 WESTERLY, RHODE ISLAND SCALE: AS SHOWN

DATE: JUNE 26, 2021

REVISED:

PREPARED BY: <u>LEBLANC ENGINEERING</u>, <u>LLC</u>
WESTERLY, RHODE ISLAND SHT. 4 OF 4

(ADDRESS: P.O. BOX 1967, WESTERLY, RI 02691 - CELL: 401-741-2056)

