

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.

	File No. (CRMC USE ONLY)
Project Location Brant Rd South South Kingstown	2023-12-058
No. Street City/Town	
	Plat: 90-4
Owner's Name Bette Gruskay Trustee Et als c/o Jean-Luc Bellefleur	Lot(s):130
	Owner's Contact:
Mailing Address 404 Roosevelt Ave, Unit 502 Central Falls, RI 02863	Number: (508)320-0453
Address City/Town, State Zip Code	Email Address: jeanlucbellefleur@vahoo.com
	Email address:
Contractor RI Reg. # Address	Tel. No.
Designer CJ Doyle Address PO Box 1161 Hope Vailey, RI 02832	Tel. No. (401)491-9530
Name of Waterway	Estimated Project Cost (EPC) \$750,000.00
	Application Fee: \$4,000.00
r rovine below a Description of Work As Proposed (required).	
construction of a z-betroom single ramity dwelling requiring buffer z	one and setback variances.
Have you or any previous owner filed an application for and/or received an (If so please provide the file and/or assent numbers): 2017-12-055	assent for any activity on this property?
Have you or any previous owner filed an application for and/or received an (If so please provide the file and/or assent numbers): 2017-12-055 Is this site within a designated historic district?	assent for any activity on this property?
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Town of South Kingstown, Rhode Island

DEPARTMENT OF ASSESSMENT

180 High Street Wakefield, RI 02879 Tel. 401-789-9331 Ext.1220

August 24, 2023

To Whom It May Concern:

This letter will confirm ownership of a building/buildings located in the Town of South Kingstown under the name(s) of **GRUSKAY BETTE TRUSTEE ET ALS** as of August 8, 2023. This building is located at **Brant Road South** and is listed on my records as Map **90-4** Lot **130**.

The Tax Assessor's Office cannot verify residency.

Sincerely,

Linda Caruso Clerk II



	Wal Pho	kefield, RI 02879 ne: (401) 783-3370	1 Suite 3 0 / Fax: (401) 783-7	2069		C M C
FROM	1: Bui	lding Official			DATE: _	12/20/2023
SUBJ	: App	lication of: Bette	Gruskay Trustess Et	als c/o Jean-Luc	Bellefleur	
	Location:	South Kingstown				· · · · · · · · · · · · · · · · · · ·
Sout	th Kingstow	/n				
	Address:	Brant Road South		DI	ot(s): 90-4	L of(e): 130
	To Constr	ruct: Two (2) bedroo	om single-family dwo	elling and associa	nted OWTS.	DOU(3).
P	I hereby of	eertify that I have re plan(s) for entire site plans	eviewed fou e structure 	MASTEWA	TER TRE	ATMENT SYSTEM,
	Date of P	lan (last revision)	8-18-2	2023	_	
N/A	and find t Rhode Isl	hat the issuance of and State Building	f a local building pe Code.	ennit is not requ	ired as in acco	rdance with Section of the
\checkmark	and find t the applic RISBC, a	hat the issuance of ant demonstrates th nd all other local, s	a local building per nat the proposed cor state and federal reg	mit is required. Istruction/activit gulations are me	I hereby certify y fully conform t.	y that this permit shall be issued once s to the applicable requirements of the
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N/A	and find Environm	that a Septic Sys	tem Suitability De t.	termination (S	SD) need not	be obtained from the RI Dept. of
\checkmark	and find ?	NO structural or no	m-structural fill is p	proposed in a FI	EMA-designate	d V-Zone or Coastal A-zone.
N/A	and find t	hat the proposed fi	ill is considered nor	n-structural fill a	and meets FEM	IA NFIP guidelines.
<u> </u>	and find th approval, filed or ap	hat said plans confo that the applicant b opeal is final. The	orm with all elemen as secured such app Zoning Board appr	ts of the zoning proval and that t oval shall expir	ordinance, and he requisite app e on: 7 11 - 2	that if said plans require zoning board beal period has passed with no appeal 29-2025
	and find th approval, filed or ap	hat said plans confe that the applicant f opeal is final.	Buit orm with all elemen has secured such app	ding Official's S ts of the zoning proval and that t	Signature ordinance, and he requisite app	12-20-2023 Date that if said plans require zoning board beal period has passed with no appeal

COASTAL RESOURCES MANAGEMENT COUNCIL

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RICRMC COASTAL HAZARD ANALYSIS WORKSHEET

APPLICANT NAME:

PROJECT SITE ADDRESS: Brant Rd South - South Kingstown

A. For	properties in a l	EMA-design	ated A. or ¥7	one, provid	e the first floor		F	FE ZU		f
eli	evation (FFE) oft			OR						
Fo	evation of the lo	FEMA-desig	nated V or C ntal structura	oastal A Zor al member (L	ne, please pro HSM) referen	vide the nced to	LHSM elevati	ion		
B. How	w long do you w for the project (vant your pro CRMC recom	oject to last? mends a min	Identify the imum of 30	expected de years)	sign	Design	n Life: 30		
C. Add (Fo war	d the number of r example, if yo nt your project to	of years you u are comple o last 30 year	identified in eting this for s, your design	n 18 to the m in the yea n life year wil	current year. ar 2020, and 1 1 be 2050.)	You	Design Life	Year: 20	53	
D. CHI	ECK beneath the	sea level rise	(SLR) project	ion that mat	ches or come	s closest to p	project design	life year.		
Year	2030	2040	2050	2060	2070	2080	2090	2100		
SLR	0.71	1.11	1.60	2.29	3.17	4,19	5.35	6.47	*	
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ft

Version 3/28/2072

COASTAL RESUMANAGEMENT

RECEIVED 12/22/202:

RICRMCCOASTALHAZARD APPLICATION WORKSHEE

STEP 4. SHORELINE CHANGE

A. Using the <u>CRMC Shoreline Change maps</u>, indicate the transect number closest to your site, and erosion rate listed for that transect. Transect Number: N/a Erosion Rate:

ft/year

B. CHECK below the Projected Erosion Rate that corresponds to the design life you identified above.

Year	2050	2060	2070	2080	2090	2100
Projected Future ErosionMultiplier	1.34	1.45	1.57	1.70	1.84	2.00
Source: Pro	ojected Shorel	ine Change Re	ate multiplier.	s. (Dakley et a	H. 2016)	

C. COMPLETE EROSION SET BACK CALCULATION:

Historicshoreline changerate, STEP4A	DesignLife, STEP 1C	Projected Future ErosionMultiplier, STEP4B		Erosion Setback (ft) 4A x 1C x 4B
0	χ 30	χ 1.34	= 0	

NOTE: Setbacks are required per the <u>CRMC Red Book, Section 1.1.9</u>. A minimum setback of 50-feet is required, but a greater setback may be necessary and/or desirable based on this analysis.

STEP 5. OTHER SITE CONSIDERATIONS: CERI & SLAMM

A. Use the **Coastal Environmental Risk Index (CERI)** map (See Tab 5A on the viewer) to enter your address and CHECK the level of projected damage to your location, as indicated on the map that corresponds to the design life identified in STEP 1.

CERI Level:	Moderate	High	Severe	Extreme	inundated by 2100	Not sppli	cable
B. Sea Level Affecting I Subdivisions only, six (6)	Marshes Model (SL	AMM) (See	Tab 5B on the	e Viewer) - This st	tep is for Large Projects and 6.1(1)(0. This step may be		
skipped for other project	ts. Use the Sea Leve	Affecting N	Marshes Model	(SLAMM) Maps 1	to assess potential impacts	0	0
maps can be accessed he future potential project life you identified in STE	ere. The CRMC rec impacts on migrat P 1 expose your p	ommends u ing marshes oject site to	sing the 3-foo . Does the SL future salt m	t SLR projection v AMM map that c harsh migration? (within SLAMM to assess corresponds to the design CHECK YES or NO	YES	NO

C. Consider and discuss with your design consultant other forces or factors that might impact the development, such as coastal habitats, shoreline features, public access, wastewater, storm water, depth to water table/groundwater dynamics, saltwater intrusion, or other issues not listed above. In addition, pressure from rising sea levels will result in rising subsurface groundwater levels ultimately effecting wells and septic systems.

STEP 6: DESIGN EVALUATION

A. Using Chapter 7 of the RI Shoreline Change SAMP as a guide, investigate mitigation options for the exposure identified above and include that in the final application.

This fully completed Coastal Hazard Application Guidance worksheet must accompany the application. If you are a design or engineering professional, please print and sign here that you have discussed the findings of this worksheet with the Owner.

DESIGN/ENGINEER SIGNATURE:		DATE:
OWNER'S SIGNATURE:	A-787-	DATE:

ATE: 12/14/23



Vetuiem 3/20/2022

Parge 2 of 1



Project Narrative for a CRMC Assent Application

Brant Road South A.P. 90-4, Lot 130 South Kingstown, Rhode Island



Prepared for: Jean-Luc Bellefleur 404 Roosevelt Avenue, Unit 502 Central Falls, RI 02863

Project Narrative Prepared by:

Scott P. Rabideau, PWS Principal

December 11, 2023

P. O. Box 311 Harrisville, RI 02830 401-568-7390



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Conclusion	6
References	8

Appendix USGS Topographic Map USDA Soil Map



Introduction

Natural Resource Services, Inc. (NRS) was retained by Jean-Luc Bellefleur in the preparation and submission of a Variance Request to the RI Coastal Resources Management Council (CRMC). The property owner is Bette Gruskey Trustee et als. (hereafter the applicant).

The subject property features a coastal wetland coastal feature associated with the Type II waters of Green Hill Pond. Coastal features are subject to the buffer zone and setback standards as outlined in Sections 1.1.9 and 1.1.11 of the CRMP respectively. This property also falls within the Rhode Island Salt Pond Region Special Area Management Plan (SAMP): Lands Developed Beyond Carrying Capacity.

The applicant is seeking permission to construct a single family home within the upland of the subject lot.

The subject lot is approximately 28,800 square feet in size and thus the coastal feature on site is afforded a 75-foot buffer zone and 25-foot construction setback from the buffer zone edge in accordance with Section 1.1.11. The applicant is requesting a variance to both the buffer zone and setback standards to move forward with this project. This request is to reduce the buffer to 25 feet, a 66% variance, and the minimum required in Chapter 9, Section 3.4.3(C)(e) of the Salt Pond SAMP. The applicant also requests to reduce the setback to 12.5 feet, a 50% variance, from the buffer zone.

The design plans referenced throughout this report have been prepared by CJ Doyle, PE referencing the survey data by Jeffrey K. Balch, PLS. These plans are considered to be standalone documents that have been included in the application package as required.

Section 1.1.7 requires applicants seeking a variance to the setback and buffer standards to respond, in the form of a written narrative, to the six (6) criteria listed within Section 1.1.7(A) of the CRMP. This narrative is being submitted to provide the applicant's written response to these standards.

Existing Conditions

The approximately 0.66 acre property is situated along the eastern side of Brant Road, a thin gravel street. This parcel lies within the town's R-80 zoning district. It is undeveloped and maintains approximately 330 feet of road frontage. The property is surrounded to the north, east and west by single family residential homes. The majority of upland on site is comprised of shrub and vine vegetation. There is a large tree by the roadway along with a small clump within the northeastern side. Vegetation primarily consists of black cherry, Morrows honeysuckle, wineberry, goldenrod, Asiatic bittersweet, Japanese honeysuckle, barberry and highbush blueberry. The transitional area between wetland and upland has minimal understory. However, further interior in the wetland vegetation thickens with highbush blueberry and sweet coastal pepperbush with an overstory of red maple. The wetland transitions into a phragmites marsh along the edge of the coastal pond.



The coastal feature on the property is the edge of this contiguous freshwater wetland associated with the Type II waters of Green Hill Pond. This wetland was delineated by NRS in November of 2016 and was verified in a CRMC Preliminary Determination #2017-12-055. This area is regulated by the CRMP as a Type 2 Water, areas with high scenic value reserved for low intensity recreational and residential use.

Project Scope

The primary purpose of this project is to residentially develop the lot with a two bedroom single family home to be used as a primary residence. The proposed home shall be 20 by 30 or 35 feet in size with a small open balcony extending into the setback. The property falls within a VE flood zone with a base flood elevation of 17 feet. To compensate for this, the home shall be placed on a pile foundation with a first floor elevation of 20 feet. The property does not have access to town sewer and thus requires an onsite wastewater treatment system (OWTS). The system proposed is a GST Fujiclean Cen5 septic treatment tank to a Geomatrix GST leach field, an enhanced nitrogen removal system designed for use in nutrient sensitive areas such as the subject lot. The property does have access to town water and shall connect to the existing infrastructure.

Stormwater shall be managed onsite. The proposed driveway shall be constructed to meet a pervious standard. Surface water shall be directed from the roof into a rain garden. Erosion controls shall be utilized throughout the construction process. Silt fencing shall be placed around the limit of disturbance (LOD).

Based on the size of the lot and type of adjacent water, the coastal feature is afforded a 75-foot buffer zone and a 25-foot setback. The applicant has applied for and received a variance to the town setback standards. The side yard setback has been reduced from the standard of 40 feet to 9.9 feet. To move forward with the project, the applicant is seeking a variance to Sections 1.1.9 and 1.11 of the CRMP. In total, the applicant is seeking a 66% reduction to the buffer standard, and a 50% reduction to the setback standard. The established 25-foot buffer zone shall be permanently demarcated by stone bounds. This reduction shall support the above described development while remaining consistent with the goals and policies of the CRMC. The request is also consistent with the CRMC PD comments noting that a 25-foot buffer and 12.5-foot setback could receive staff support.

Section 1.1.7 - Variances

Section 1.1.7 of the CRMP states than an applicant seeking a variance to an established standard must respond in writing to the six (6) criteria listed. The following is the applicant's written response to the variance standards.

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

Section 1.2.1 of the CRMP outlines the Council's policies for land use adjacent to Type 2 Waters. This designation is reserved for areas with high scenic value that support low intensity recreational and residential uses. The proposed use is for a single-family



residential home, similar to those is the surrounding development along Brant Road as well as the roads directly west and east, Wild Goose Road and Mallard Road, that are in similar proximity to the 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 proposed project shall require the alteration of existing naturalized vegetation within the upland adject to the contiguous freshwater wetland. However, the proposed home has been placed as far away from the on-site wetland as practicable, close to the roadway and the adjacent home to the property's north. Also, as previously noted, the upland within the site is primarily comprised of invasive shrub and vine vegetation including Morrow's honeysuckle, wineberry, goldenrod, Asiatic bittersweet, Japanese honeysuckle and Japanese barberry.

As previously stated, appropriate erosion controls shall be established along the authorized limit of disturbance. This erosion control barrier shall be installed prior to the commencement of development activities and shall remain in place until the conclusion of the project and all disturbed areas have stabilized. These measures shall be performed to be consistent with the RI Soil Erosion and Sediment Control Handbook (2014).

Concerning use conflicts, this parcel lies within the town's R-80 zoning district, a designation that is reserved for "primarily rural areas which are not served by public facilities, and in which intensive development should not occur. They are characterized by low-density residential development, large estates, agriculture and certain low intensity non-residential activities incidental to a rural environment". Additionally, the proposed project was approved by town zoning with variances. As noted in the zoning board review many of the homes in the surrounding area are set "askew" due to the development challenges presented by Green Hill Pond. Additionally, most of the neighborhood "predates the current Zoning Ordinance and R80 designation making many of the lots substandard in size therefore requiring dimensional relief". The applicant's project shall not adversely impact the character of this neighborhood in this district.

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

The residentially zoned parcel has enough upland to support a home and necessary infrastructure. However, the 75 foot buffer zone and 25 foot setback applied to the limit of contiguous freshwater wetland would leave the applicant with no developable area. Even with the significant variance to the town side yard setback standards, the required CRMC buffer and setback standards could not be met. With the requested variances, the applicant does meet the minimum required 25 foot buffer zone as well as a 12.5 foot setback.

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.



The applicant has included measures to minimize the variance request to the greatest extent possible. The applicant has received a variance to the side yard setback from the town, allowing the applicant to push the proposed home further from the coastal feature. The home has also been sized down to reflect a minimization of size, similar to smaller homes within the area. The proposed home has been placed and angled so as to minimize the required variance to buffer and setback standards as well.

5) The requested variance to the applicable standards is not due to any prior action of the applicant or the applicant's predecessors in title.

The variance request is not the result of any prior action of the applicant or the applicant's predecessor in title. The property is a legally platted residential lot that was not created by subdivision.

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.

Upholding the buffer and setback standard on the lot would cause the applicant undue hardship as it would prohibit the applicant from any development as the buffer zone encompasses the entire lot. If relief from the standards is not granted the applicant could not achieve residential development within the legally platted lot of record which would constitute as an undue hardship.

Section 1.1.10 - Sea Level Rise

Section 1.1.10 of the CRMP outlines the Council's policies pertaining to climate change and sea level rise. The CRMC requires that applicants proposing development within the jurisdiction of the CRMC consider various sea level rise scenarios as part of the application process. NRS has reviewed the subject property using the STORMTOOLS data layer with GIS software. STORMTOOLS provides models detailing sea level rise scenarios with one (1), two (2), three (3), five (5) and seven (7) foot projections. Based on our review of this data, portions of the property may be impacted by 5 feet of sea level rise and greater. Five feet of sea level rise will also begin to impact access to the property along Brant Road. However, a coastal hazard analysis was performed on the required worksheet. The project design life of 30 years shall not be impacted by the 2 feet of projected sea level rise. Although portions of Brant Road may be impacted the property can still be accessed with the projected rise in sea level.

Conclusion



The applicant is seeking permission in the form of a variance request to construct a two bedroom single family home on the property. The proposal includes the construction of an OWTS, pervious driveway and rain garden. The applicant is requesting a variance to the buffer and setback standards of the CRMP in order to construct this residence within the lot. More specifically, this project requires a 66% percent reduction to the buffer to the minimum buffer of 25 feet as well as the reduction of the setback from 25 to a 12.5 feet from the buffer. Appropriate erosion controls shall be implemented and established along the LOD in accordance with the specifications of the site plans. The buffer shall also be permanently demarcated with buffer zone posts.

This narrative has been prepared to provide the applicant's written response to the six (6) criteria listed in Section 1.1.7 of the CRMP for variance requests. Based on the project's ability to satisfy such criteria, it is our opinion that the project may be permitted through a variance to the setback standards.



References

- Coastal Resources Management Council, (Refiled January 2012) Coastal Resources Management Program, as Amended.
- RIGIS. (1939-2022). *Topo map & aerial photoviewer*. RI Department of Environmental Management.
- RI State Conservation Committee, RI Department of Environmental Management, RI Coastal Resources Management Council & RI Department of Transportation. (2016) *RI Soil Erosion and Sedimentation Control Handbook*.



Appendix







RESIDENTIAL LOT DRAINAGE

Location: Brant Road South, South Kingstown (Plat 90-4, Lot 130) **Owner; Jean-Luc Bellefleur** 9/9/2022, Rev. 12/L3/2023 Date: 640.00 s.f. Area of house roof 53.33 cu. ft. Water quality volume: Soils: silt loam *Based on soils data for OWTS design, seasonal high water table = 28" @ SE-2(attached) USDA Soil Web Survey shows Tisbury sil loam, hydro group c, 18"-30" GWT GWT = 5.90 - 2.33' = 3.57 Rain Garden 640.00 s.f. in reg'd = 198 s.f.* silt loam *Based on Town of South Kingstown requirement to mitigate 10-year storm.

Exceeds requirement for water quality volume in accordance with RI stormwater Guidance for Individual Single-Family Residential Development

Required Size:

Rain garden bottom dimensions = <u>irregular =</u> 198 s.f. 8" - depth

Sidewalls shall have a 2:1 slope3:1 usedRequired length to width > 2:1Required grade at site in area of rain garden < 12%</td>Required distance to foundation >10'Required distance to septic system > 15'Required distance to private drinking water well > 25

Used for: house roof

Conclusion: Proposed infiltration field mitigates the peak discharge rate of flow and volume discharge for a 10-year storm event to 0.00 cfs and 0.00 cf. Reference attached Hydrocad calculations.





RESIDENTIAL LOT DRAINAGE

Location: Brant Road South, South Kingstown (Plat 90-4, Lot 130) Owner: Jean-Luc Bellefleur Date: <u>9/9/2022</u>

Area of drive

<u>660.00</u> s.f.

Water quality volume: <u>55.00</u> cu. ft.

Soils:silt loam*(0.27 in/hr infiltration rate)* Based on soils data for OWTS design, seasonal high water table = 28" @ SE-2 (ref site plan)USDA Web Survey shows Tisbury silt loam, hydro group C, 18"-30" GWT

GWT = 6.0 - 2.33 = 3.67 at driveway

 Stone Reservoir
 660.00
 s.f. in
 silt loam
 req'd size =
 660.00
 s.f.*

 *Based on town of South Kingstown requirement to mitigate 10-year storm. Exceeds
 requirement for water quality volume in accordance with RI Stormwater Guidance

 for Individual Single Family Residential Development

660 s.f. crushed stone of full depth See attached Hydrocad data

Required Size for 660 s.f. drive:Stone reservoir bottom dimensions = $20.0' \times 33.0' =$ 660.00 s.f.Depth stone = 7"Required grade for pervious drive < 5%</td>Required distance to foundation >10'Required distance to septic system > 15'Required distance to private drinking water well > 25'25'Required distance to GWT >2'25'

Used for: <u>driveway</u>

<u>Conclusion</u>: Based on attached Hydrocad calculations, proposed stone reservoir mitigates the peak discharge rate of flow and volume discharge for a 10-year storm event such that there is no increase in peak discharge rate of flow and volume discharge from the project site for the proposed condition when compared to the existing condition.







Summary for Subcatchment PSC1: roof - 640 s.f.

Runoff	=	0.07 cfs @	12.07 hrs,	Volume=	249 cf,	Depth= 4.66"
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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs Type III 24-hr 10 yr New Rainfall=4.90"

Ar	ea (sf)	CN	Description						
	640	98	Unconnected roofs, HSG C						
	640		100.00% In	npervious A	rea				
	640		100.00% U	nconnected	l				
Tc (min)	Length (feet)	Slope (ft/ft	e Velocity)(ft/sec)	Capacity (cfs)	Description				
5.0					Direct Entry, Roof		_		

Summary for Subcatchment PSC2: drive - 660 s.f.

Runoff = 0.08 cfs @ 12.07 hrs, Volume= 256 cf, Depth= 4.66*

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs Type III 24-hr 10 yr New Rainfail=4.90"

A	rea (sf)	CN [Description			
	660	98 F	^b aved park	ing, HSG C		
	660		100.00% Im	ipervious A	rea	
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
5.0					Direct Entry, drive	

Summary for Pond P-1: rain garden

Inflow Area	a =	640 sf,	,100.00% Ir	npervious,	Inflow Depth = 4	.66" for	r 10 yr N	lew event
Inflow	=	0.07 cfs @	12.07 hrs,	Volume=	249 cf			
Outflow	=	0.00 cfs @	15.90 hrs,	Volume=	249 cf,	Atten= 9	7%, Lao	a= 229.6 min
Discarded	=	0.00 cfs @	15.90 hrs,	Volume=	249 cf			-
Primary	=	0.00 cfs @	0.00 hrs,	Volume=	0 cf			

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs / 3 Peak Elev= 5.22' @ 15.90 hrs Surf.Area= 325 sf Storage= 154 cf

Plug-Flow detention time= 749.0 min calculated for 249 cf (100% of inflow) Center-of-Mass det. time= 749.0 min (1,496.4 - 747.4)

₹ 8	<u> </u>	lume	Invert	Avail.Storage	Storage Description
NAGE	12	#1	4.63'	308 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
	22				
	20				
NCES	23				

Beilefleur proposed Rev1 Prepared by CJ DOYLE, P.E.

HydroCA	AD® 10.00-	25_s/n 07550 ©	2019 HydroCAD S	Software Solutions LLC	Page 3
Elevati (fee	on et)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
4. 5. 5.	63 30 63	198 343 424	0 181 127	0 181 308	
Device	Routing	Invert	Outlet Devices		
#1 #2	1 Discarded 4.63' 2 Primary 5.30'		0.270 in/hr Exfi 10.0' long x 0.5 Head (feet) 0.2 Coef. (English)	Itration over Horizontal area 5' breadth Broad-Crested Red 0 0.40 0.60 0.80 1.00 2.80 2.92 3.08 3.30 3.32	Phase-In= 0.01' tangular Weir

Discarded OutFlow Max=0.00 cfs @ 15.90 hrs HW=5.22' (Free Discharge) -1=Exfiltration (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=4.63' (Free Discharge) 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P-2: perv drive

Inflow Area	1 =	660 sf,	100.00% Impervious	, Inflow Depth = 4.6	66" for 10 yr New event
inflow	=	0.08 cfs @	12.07 hrs, Volume=	256 cf	-
Outflow	=	0.00 cfs @	10.77 hrs, Volume=	256 cf, /	Atten= 95%, Lag= 0.0 min
Discarded	=	0.00 cfs @	10.77 hrs, Volume=	256 cf	
Primary	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs / 3 Peak Elev= 5.92' @ 13.82 hrs Surf.Area= 660 sf Storage= 109 cf

Plug-Flow detention time= 212.6 min calculated for 256 cf (100% of inflow) Center-of-Mass det. time= 212.6 min (960.0 - 747.4)

Volume	Invert	Avail.Stor	age Storage Description
#1	5.42'	12	6 cf 20.00'W x 33.00'L x 0.58'H Prismatoid 383 cf Overall x 33.0% Voids
Device	Routing	Invert	Outlet Devices
#1 # 2	Discarded Primary	5.42' 5.98'	0.270 in/hr Exfiltration over Surface area Phase-In= 0.01' 12.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
Discard	ed OutFlow	/lax=0.00 cfs	a @ 10.77 hrs HW=5.43' (Free Discharge)

1=Exfiltration (Exfiltration Controls 0.00 cfs)

Non-2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)





Conservation Service

12/13/2023 Page 1 of 3

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Tb—Tisbury silt loam

Map Unit Setting

National map unit symbol: 9lxf Elevation: 0 to 520 feet Mean annual precipitation: 44 to 50 inches Mean annual air temperature: 48 to 50 degrees F Frost-free period: 120 to 195 days Farmland classification: All areas are prime farmland

Map Unit Composition

Tisbury and similar soils: 90 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tisbury

Setting

Landform: Terraces, outwash plains Down-slope shape: Linear Across-slope shape: Linear, concave Parent material: Coarse-silty eolian deposits over sandy and gravelly glaciofluvial deposits derived from granite and/or schist and/or gneiss

Typical profile

Ap - 0 to 8 inches: silt loam Bw1 - 8 to 18 inches: silt loam Bw2 - 18 to 26 inches: silt loam 2C - 26 to 60 inches: stratified very gravelly sand to loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 6.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 2w Hydrologic Soil Group: C



Ecological site: F149BY007NY - Moist Outwash Hydric soil rating: No

Minor Components

Enfield

Percent of map unit: 4 percent Landform: Terraces, outwash plains Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

Bridgehampton

Percent of map unit: 3 percent Landform: Outwash plains Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

Raypol

Percent of map unit: 3 percent Landform: Outwash plains Down-slope shape: Concave Across-slope shape: Concave Hydric soil rating: Yes

Data Source Information

Soil Survey Area: State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties Survey Area Data: Version 23, Sep 8, 2023







A PROPOSED 2-BEDROOM DWELLING WITH PILE FOUNDATION DESIGNED TO MEET

THE CONTRACTOR IS REQUIRED TO MAINTAIN THE CONSTRUCTION AREA IN A SAFE MANNER AND ALL CONSTRUCTION ACTIVITY ON THE SITE IN ACCORDANCE WITH ALL

ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT

	D.E.M. REQUIRES THE REMOVAL OF ALL TREES AND BRUSH WITHIN 10 FEET OF THE PROPOSED LEACH FIELD
thacks	NO VEHICULAR TRAFFIC IS PERMITTED OVER THE PROPOSED LEACH FIELD.
0 foot	NO DRAINS, INCLUDING FOUNDATION DRAINS, SHALL BE WITHIN 25' OF THE PROPOSE
	LEACH FIELD.
0.0 feet	UNLESS, SHOWN THERE ARE NO KNOWN DRAINS WITHIN 200' OF THE PROPOSED
9 feet*	LEACH FIELD.
027%±	THIS SITE IS LOCATED IN A CRITICAL RESOURCE AREA (RULE 6.42).
35 foot	THERE ARE NO COASTAL POND SHORELINE FEATURES AND TRIBUTARIES INCLUDING
55 1661	STORM AND SUBSURFACE DRAINS DIRECTLY DISCHARGING THERETO WITHIN 200' OF

THE PROPOSED O.W.T.S. THERE IS A WETLAND CONTIGUOUS TO THE SALT POND WITHIN 200' OF THE

SOIL NOTES:

TEST HOLE #1 (Elev. 7.30) 0-8" Ap, 10YR2/2, sil, 1sbkf, fr 8-34" Bw1, 2.5Y4/4, sil, 1sbkf, fr

34-51" Bw2, 2.5Y6/1, sil, 0-m, fr 51-96" 2C, 2.5Y5/4, cobgrs, 0-sg, l DEPTH TO GROUNDWATER TABLE = 36 GROUNDWATER ELEV. = 4.30 Test Hole #2 (Elev. 5.90)

0-8" Ap, 10YR2/2, sil, 1sbkf, fr 8-24" Bw1. 10YR4/6, sil, 1sbkf, fr 24-45" Bw2, 2.5Y5/4, sil, 0-m, fr 45-84" 2C, 2.5Y5/4, cobgrs, 0-sg, I

DEPTH TO GROUNDWATER TABLE = 28" GROUNDWATER ELEV. = 3.57



LOCATION PLAN SCALE: 1" = 2000'

1	SCHEDULE OF INVERTS	
INVERT No.	LOCATION OF INVERT	INVERT ELEV.
1	BUILDING SEWER	5.31
2	SEPTIC TANK - IN	5.17
В	SEPTIC TANK - OUT	4.92
4	PUMP CHAMBER - IN	4.88
5	PUMP CHAMBER - OUT	5.05
6	LATERAL INVERT	6.97
7	MIN. FIN. GR.	7.57

				~ ~ ~		LIMIT OF DISTUR	BANCE
>	ι	JTILITY POLE	_	w	w w	EXISTING WATE	R LINE
	Р	ROPOSED CONT	DUR	(M	WELL	
	F	ROPOSED SPOT	GRADE		.		
	F		P	X	Ŏ	WATER SHUT-OF	F
	. с т		TX	v I	\sim	WATER VALVE	
٦,	_					EXISTING EDGE	OF BRUSH
	FRISELLA - BALCH & ASSOCIATES LAND SURVEYORS 33 NORTH RD. SUITE C-201 PEACE DALE, RI PHONE (401) 783-5949 www.frisella.com				CJ DOYLE, P.E. CIVIL ENGINEERING MAILING ADDRESS: P.O. BOX 1161, HOPE VALLEY RIO OFFICE: 1122 MAIN STREET, WYOMING, PHONE (401) 491-9530 ckengine@cox.net		.E. NG RI 02832 NG, RI
1	-	00/40/2022		TDAC			
	4	12/14/2022)	CJD
	2	12/06/2022			MMENTS		CJD
	1	10/31/2022	REVISED PER DE		MENTS/GE	OMATRIX GST	CJD
	NO.	DATE	-	DES			BY
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		AN-LUC	BELLEF	LEL	90-4 J R (BU	YER)	
	OWNED JE ADDRE	AN-LUC SS: ANT ROA	BELLEFI	LEU	90-4 JR (BU	YER)	
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ARD	OWNEE JE, ADDRE BR, IN TI DATE: SCALE:	AN-LUC SS: ANT ROA HE TOWN OF SEPTEMBER 1" =20'	BELLEFI D SOUTH F SOUTH R 16, 2022		90-4 JR (BU IGSTOV	Y ER) VN, RI	
ARD	OWNEE JE, ADDRE BR, IN TI DATE: SCALE: DESIGN	AN-LUC SS: ANT ROA HE TOWN OF SEPTEMBER 1" =20' IED BY: CAROL	BELLEFI		90-4 JR (BU IGSTOV	Y ER) VN, RI	
٩RD	OWNEE JE, ADDRE BR, IN TI DATE: SCALE: DESIGN DRAWN JK/CJ	AN-LUC SS: ANT ROA HE TOWN OF SEPTEMBER 1" =20' IED BY: CAROL	BELLEFI D SOUTH SOUTH R 16, 2022		90-4 JR (BU	YER) VN, RI	
٩RD	OWNEE JE, ADDRE BR, IN TI DATE: SCALE: DESIGN DRAWIN	AN-LUC SS: ANT ROA HE TOWN OF SEPTEMBER 1" =20' TED BY: CAROL BY: ID NG No. SHE	BELLEFI		90-4 JR (BU	YER) VN, RI	
٩RD	OWNEE JE, ADDRE BR, IN TI DATE: SCALE: DESIGN DRAWIN	AN-LUC SS: ANT ROA HE TOWN OF SEPTEMBER 1" =20' TED BY: CAROL BY: ID NG No. SHE	BELLEFI D SOUTH SOUTH SOUTH R 16, 2022		90-4 JR (BU	YER) VN, RI	
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FOR SURVEYS ONLY

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THEFE

REGISTERED

PROFESSIONAL ENGINEER

OVER ALL DISTURBED SOIL.

HANDBOOK'



THE GRAVEL BASE MATERIAL SHALL CONSIST OF CLEAN SAND AND GRAVEL FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE GRAVEL SHALL NOT CONTAIN ANY EXTERNAL PUMP CHAMBER: MATERIAL LARGER THAN 3 INCHES AND UP TO 10% MAY BE SIZED BETWEEN 3/4" AND 3". THE PUMP CHAMBER SHALL HOUSE AN EFFLUENT PUMP MANUFACTURED BY ORENCO SYSTEMS, INC. MODEL PFEF4011-B (OR APPROVED EQUIVALENT) AND SHALL BE INSTALLED ACCORDING TO DETAILS PROVIDED AND TO PERCENT PASSING MANUFACTURER'S SPECIFICATIONS. SEE TYPICAL PUMP CHAMBER DETAIL. SAND FILTER MEDIA BOTTOMLESS SAND FILTER MEDIA SHALL BE ASTM C33 SAND MEETING ALL OF THE FOLLOWING ADDITIONAL REQUIREMENTS: 40% - 100% -EFFECTIVE SIZE: D10 = 0.3MM. -UNIFORMITY COEFFICIENT: 3.0 TO 4.0 -MAXIMUM ALLOWABLE FINES PASSING A #200 SIEVE SHALL BE 1% 0% - 202 OR AS SPECIFIED ON FIGURE 9 OF THE MOST RECENTLY PUBLISHED R.I.D.E.M. GUIDELINES FOR THE DESIGN AND USE OF BOTTOMLESS SAND FILTERS. GRAVEL SHALL BE PLACED IN SHALLOW LIFTS (6") AND PROPERLY COMPACTED. THE SURFACE OF THE GRAVEL SHALL BE LEVEL AND SCARIFIED. GEOMATRIX GST[™]LEACHING SYSTEM GEOMATRIX GST[™]LEACHING SYSTEM Plan View A-A' CROSS SECTION Finished Grade shall be pitched to sheet flow stormwater away from system Cover material depth shall be 6-12" and shall be Clean, washed uniform over system 1/2 - 3/4" stone Filter Fabric ≥2" -ASTM C-33 Sand Clean. Washed ≥2" 4" 4" 1/2-3/4" stone ASTM C-33 Sand (or approved equivilant) *H= 6" (GST6206) 12" (GST6212 18" (GST6218) Copyright 2009 GEOMATRIX SY Patents Pending GEOMATRIX ST LEACHING SYSTEM GEOMATRIX ST LEACHING SYSTEM Plan View Geomatrix Systems, LLC., Old Saybrook, CT *Distribution pipe for gravity systems shall comply with RIDEM OWTS Rule 6.34C -A' Cross Section tems, LLC., Old Saybrook, Cl Distribution pipe for pressure applications shall comply with RIDEM Guidelines for 860-510-0730 860-510-0730 Finished Grade shall be pitched to sheet flow stormwater away from system \u/ Cover material depth shall be 6-12" and shall be uniform over distributionpipe ASTM C-33 Sand Distribution Pipe* Clean, Washed * 1/2 - 3/4" stone L. 6.47 1 -Base of GST SHWT SHWT EL. 4.30 Advanced Pretreatment 👃 Septic Tank Effluent H= 6" (GST6206) eptic Tank Effluent in critical resource areas 上 12" (GST6212) 18" (GST6218) *Distribution pipe for gravity systems shall comply with RIDEM OWTS Rule 6.34C Distribution pipe for pressure applications shall comply with RIDEM Guidelines for the Design, Use and Maintenance of Pressurized Drainfields. Copyright 2009 GEOMATRIX SYSTEMS, LL GEOMATRIX ST LEACHING SYSTEM B-B' Cross Section Geomatrix Systems, LLC., Old Saybrook, CT 860-510-0730 SIM/TECH STF-100 TO TRANSPORT LINE & BE LOCATED BETWEEN LATERAL SHALL BE PUMP & LATERALS ON 1.25" PVC PRESSURE DISTRIBUTION SYSTEM PROVIDE 2" C-33 SAND BASE BELOW STONE CJ DOYLE, P.E. MAILING ADDRESS: P.O. BOX 1161, HOPE VALLEY, RI 02832 OFFICE LOCATION: 1122 MAIN STREET, WYOMING, RI PHONE (401) 491-9530 cjengine@cox.net GEOMATRIX GST6206 DRAIN FIELD: THE LEACH FIELD SHALL BE COMPRISED OF ONE CELL WITH 1 ZONE WITH ONE LATERAL OF 16.0' LENGTH. GEOMATRIX GST6206 WITH AN INDIVIDUAL FEED DESIGN. THE MANIFOLD SHALL BE 1.25" PVC (CLASS 200). THE LATERAL FOR THE GEOMAT DRAIN FIELD SHALL BE SCHEDULE 40, 1.25" DIAMETER REVISED PER DEM COMMENTS 12/06/2022 CJD 10/31/2022 REVISED PER DEM COMMENTS/GEOMATRIX GST CJD A SERIES OF 1/8" DIAMETER HOLES (ORIFICES) SHALL BE MADE IN THE BOTTOM OF THE DISTRIBUTION LATERALS AND SPACED EVERY 18 INCHES. A NEW DRILL BIT SHALL NO. DATE DESCRIPTION BY BE USED TO ASSURE A SMOOTH AN ORIFICE AS POSSIBLE. UPWARD FACING ORIFICES SHALL BE LOCATED AT 1/3 AND 2/3 DISTANCE FROM THE MANIFOLD. AWING TITLED SCHEDULE 40 PVC SWEEP ELBOWS (TURNUPS) OR ONE 45" ELBOW SHALL BE ATTACHED DETAILS FOR NEW ONSITE WASTEWATER TO THE DISTAL END OF EACH DRAIN FIELD LATERAL TO FACILITATE MAINTENANCE AND INSPECTION (SEE DRAINFIELD TERMINAL RISER DETAIL). THE FINAL PIPE END FOR EACH **TREATMENT SYSTEM** LATERAL WITH EITHER A BALL VALVE OR MALE PLUG. EITHER THE VALVE OR PLUG 4" DIAMETER INSPECTION PORT SHALL BE INSTALLED IN THE LEACH FIELD, EXTEND TO THE BOTTOM OF THE FIELD AND BE BROUGHT TO THE FINAL GROUND SURFACE (SEE LOT 130 PLAT 90-4 INSTALLATION OF THE GEOMATRIX GST DRAINFIELD SHALL BE IN ACCORDANCE WITH THE WNED BY MANUFACTURER'S REQUIREMENTS/ GEOMATRIX SYSTEMS, LLC, 114 MILL ROCK ROAD EAST, OLD SAYBROOK, CT 06475 860-510-0730 AND IN THE PRESENCE OF AN JEAN-LUC BELLEFLEUR (BUYER) AUTHORIZED GEOMATRIX REPRESENTATIVE OR A GEOMATRIX SYSTEMS LLC CERTIFIED DDRESS THE AREA OF THE GEOMATRIX GST FIELD SHALL BE STAKED PRIOR TO CONSTRUCTION AND PROTECTED FROM VEHICLE TRAFFIC TO PREVENT COMPACTION OF THE SOILS IN BRANT ROAD SOUTH THE LEACHING AREA. SOIL BETWEEN THE TRENCHES SHALL BE PRESERVED AND TRENCHES DUG ON A TRENCH BY TRENCH BASIS. INSTALLER SHALL BE TRAINED IN THE INSTALLATION OF GEOMATRIX GST SYSTEMS. IN THE TOWN OF WESTERLY, RI GEOMATRIX GST EXCAVATION: SEPTEMBER 16, 2022 CAROLYN J. DOXLE THE PRESENCE OF FILL ON THE SITE IN THE LEACH FIELD AREA IS NOT DOCUMENTED BY THE SOIL EVALUATION. IF FILL IS ENCOUNTERED IT SHALL BE EXCAVATED TO THE CAROLYN J. DOYLE, P.E. BOTTOM OF THE FILL. IF FILL EXTENDS BELOW BOTTOM OF GEOMAT GST, FILL IS TO BE REMOVED TO 5' AROUND THE LEACH FIELD AND BACKFILLED WITH ASTM C-33 SAND TO THE DESIGN ELEVATION OF THE BOTTOM OF THE LEACH FIELD. SCALE: AS SHOWN 5078 CJD CJD All and the REGISTERED PROFESSIONAL ENCINE SHEET 2 OF 2 0

COASTAL RESOURCE