SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div of Environmental Health , 11 SHS
(207) 287-2070 FAX (207) 287-4172

PROPERTY LOCATION

City, Town, or Plantation	PORTLAND; PEAKS ISLAND
Street or Road	77 WOODS ROAD
Subdivision, Lot #	

>>CAUTION: LPI APPROVAL REQUIRED<<

Town/City _____ Permit # _____

Date Permit Issued __/__/__ Fee $ _____ Double Fee Charged [ ]

_____ L.P.I.# _____
Local Plumbing Inspector Signature

Fee $ _____ State Fee Fee $ _____ Locally Adopted Fee
Copy: [ ] Owner [ ] Town [ ] State

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # 92 Lot # 6-36-1

OWNER/APPLICANT INFORMATION

Name (last, first, MI)	HANSEN - FOX ■ Owner ☐ Applicant
Mailing Address of [redacted] Applicant	c/o HEATHER THOMPSON THOMPSON JOHNSON WOODWORKS 115 ISLAND AVENUE PEAKS ISLAND, ME 04108
Daytime Tel. #	766-5919 HEATHER@TJWHOME.COM

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.

_____ _____
Signature of Owner/Applicant Date

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

_____ (1st) Date Approved

_____ _____
Local Plumbing Inspector Signature (2nd) Date Approved

PERMIT INFORMATION

TYPE OF APPLICATION

- ☐ 1. First Time System
- ☐ 2. Replacement System
  - Type Replaced: _____
  - Year Installed: _____
- ■ 3. Expanded System
  - ☐ a. <25% Expansion
  - ■ b. >25% Expansion
- ☐ 4. Experimental System
- ☐ 5. Seasonal Conversion

THIS APPLICATION REQUIRES

- ■ 1. No Rule Variance
- ☐ 2. First Time System Variance
  - ☐ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector Approval
- ☐ 3. Replacement System Variance
  - ☐ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector Approval
- ☐ 4. Minimum Lot Size Variance
- ☐ 5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS

- ■ 1. Complete Non-Engineered System
- ☐ 2. Primitive System(graywater & alt toilet)
- ☐ 3. Alternative Toilet, specify: _____
- ☐ 4. Non-Engineered Treatment Tank (only)
- ☐ 5. Holding Tank, _____ gallons
- ☐ 6. Non-Engineered Disposal Field (only)
- ☐ 7. Separated Laundry System
- ☐ 8. Complete Engineered System(2000gpd+)
- ☐ 9. Engineered Treatment Tank (only)
- ☐ 10. Engineered Disposal Field (only)
- ☐ 11. Pre-treatment, specify: _____
- ☐ 12. Miscellaneous components

SIZE OF PROPERTY

52,000 +/- ■ SQ. FT. ☐ ACRES

SHORELAND ZONING

■ Yes ☐ No

DISPOSAL SYSTEM TO SERVE

- ☐ 1. Single Family Dwelling Unit, No. of Bedrooms: ____
- ■ 2. Multiple Family Dwelling, No of Units: 2
- ☐ 3. Other: _____ (specify)

Current Use ■ Seasonal ☐ Year Round ☐ Undeveloped

SEASONAL TYPE OF WATER SUPPLY

☐ 1. Drilled Well ☐ 2. Dug Well ☐ 3. Private
■ 4. Public ☐ 5. Other:

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

- ■ 1. Concrete
  - ☐ a. Regular
  - ■ b. Low Profile
- ☐ 2. Plastic
- ☐ 3. Other: _____

CAPACITY: 1,000 GAL.
SEE NOTE ON PAGE 3

DISPOSAL FIELD TYPE & SIZE

- ☐ 1. Stone Bed ☐ 2. Stone Trench
- ■ 3. Proprietary Device
  - ☐ a. Cluster array ■ c. Linear
  - ■ b. Regular ☐ d. H-20 loaded
- ☐ 4. Other: _____

SIZE: 672 ■ sq. ft. ☐ lin. ft.
14 ELJEN GSF UNITS

GARBAGE DISPOSAL UNIT

■ 1. No ☐ 2. Yes ☐ 3. Maybe

If Yes or Maybe, specify one below:
- ☐ a. Multi-compartment tank
- ☐ b. _____ tanks in series
- ☐ c. Increase in tank capacity
- ☐ d. Filter on tank outlet

DESIGN FLOW

180 gallons per day
BASED ON:
- ■ 1. Table 4A (dwelling unit(s))
- ☐ 2. Table 4C (other facilities)

SHOW CALCULATIONS for other facilities
EXISTING 3 BEDROOM DWELLING (WITH EXISTING DISPOSAL AREA)
PROPOSED 1 OR 2 BEDROOM ACCESSORY DWELLING UNIT AT 90 GALLONS PER DAY PER BEDROOM = 180 GPD

☐ 3. Section 4G (meter readings)
ATTACH WATER-METER DATA

SOIL DATA & DESIGN CLASS

PROFILE CONDITION
12 / AIII
(FILL OVER 2 AIII)
at Observation Hole # TB C
Depth 24 "
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING

- ☐ 1. Medium - 2.6 sq.ft./gpd
- ■ 2. Medium-Large - 3.3 sq.ft./gpd
- ☐ 3. Large - 4.1 sq.ft./gpd
- ☐ 4. Extra-Large - 5.0 sq.ft./gpd

EFFLUENT/EJECTOR PUMP

- ☐ 1. Not required
- ■ 2. May be required
- ☐ 3. Required

Specify only for engineered systems:
SEE NOTE ON PAGE 3
DOSE: _____ gallons

LATITUDE AND LONGITUDE

at center of disposal area
Lat. N43 d 40 m 22.67 s
Lon. W70 d 10 m 59.16 s
if g.p.s., state margin of error _____

SITE EVALUATOR STATEMENT

I certify that on 5/1/18 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed sytem is in compliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241).

_____ 352 5/16/18
Site Evaluator Signature SE # Date

BRADY A. FRICK (207) 839-5563 BRADY@ALBERTFRICK.COM
Site Evaluator Name Printed Telephone Number E-mail Address

ALBERT FRICK ASSOCIATES - 380B MAIN STREET, GORHAM, MAINE 04038 - (207) 839-5563
Note: Changes to or deviations from the design should be confirmed with the Site Evaluator

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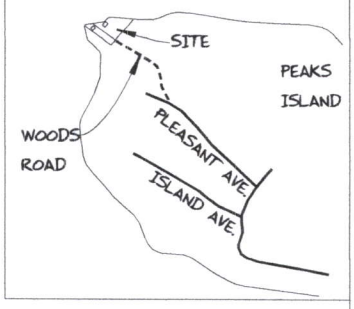
Town, City, Plantation	Street, Road Subdivision	Owner's Name
PORTLAND, PEAKS ISLAND	77 WOODS ROAD	N/F HANSEN - FOX

SITE PLAN Scale 1" = _____ Ft. or as shown

SITE LOCATION PLAN (Attach Map from Maine Atlas Recommended)



SEE SITE PLAN ATTACHED

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TP 1 ■ Test Pit ☐ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0	SANDY LOAM (FILL)		DARK BROWN	
10	COARSE SAND (FILL)	FRIABLE	LIGHT OLIVE BROWN	
20				
30				
40				
50	LIMIT OF EXCAVATION			

Soil Classification		Slope	Limiting Factor	
12	B	____ %	-	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth
Profile	Condition			

(FILL OVER 2 AIII)

Observation Hole TB's ☐ Test Pit ■ Boring
_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0				
10	TB A = 28" TO REFUSAL / BEDROCK			
20	TB B = 40"+ TO REFUSAL / BEDROCK			
30	TB C = 24" TO REFUSAL / BEDROCK			
40	TB D = 40"+ TO REFUSAL / BEDROCK			
50				

Soil Classification		Slope	Limiting Factor	
		____ %	-	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth
Profile	Condition			

BJA 21
Site Evaluator Signature

352
SE #

5/16/18
Date

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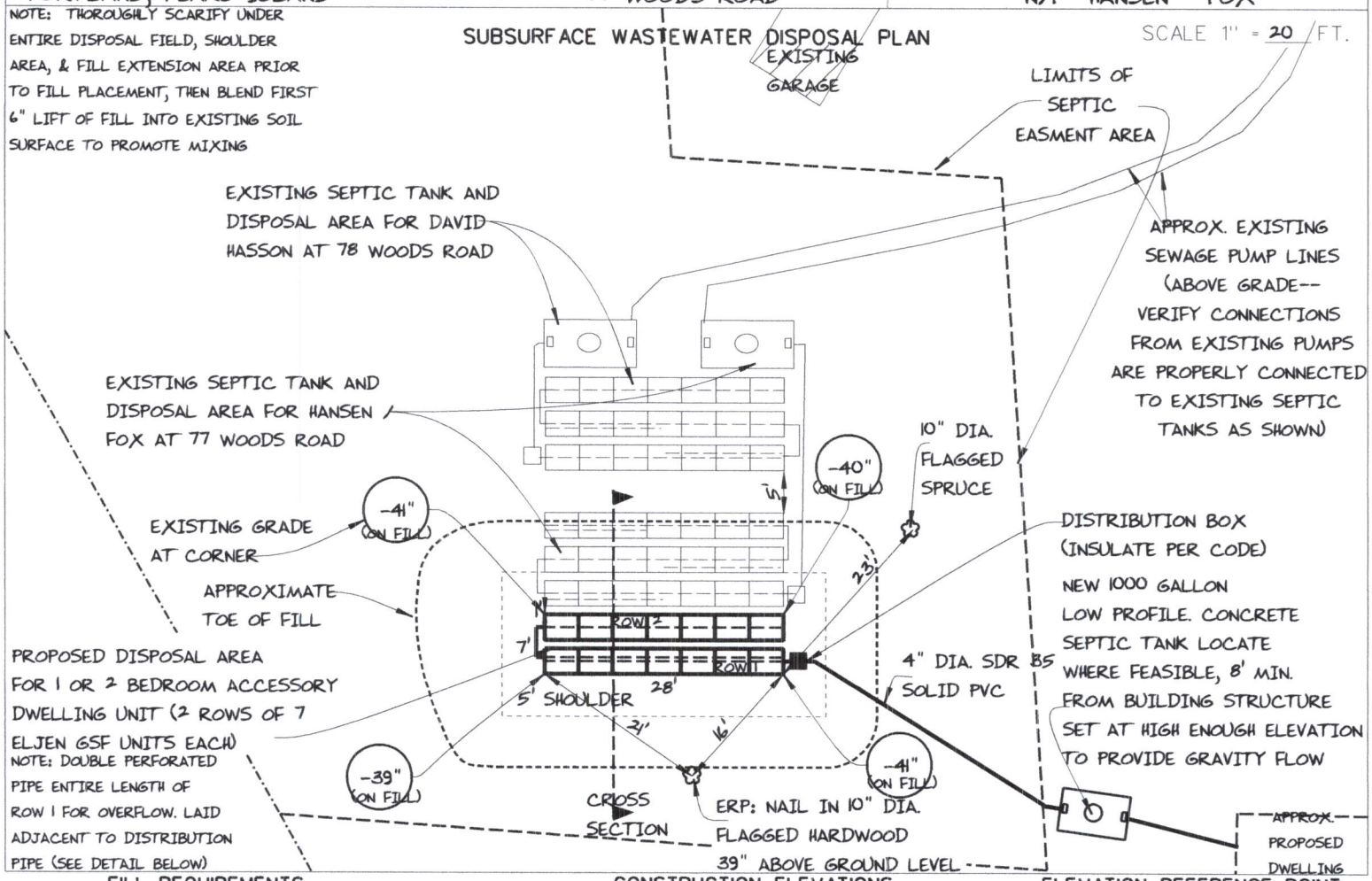
NOTE: THOROUGHLY SCARIFY UNDER ENTIRE DISPOSAL FIELD, SHOULDER AREA, & FILL EXTENSION AREA PRIOR TO FILL PLACEMENT, THEN BLEND FIRST 6" LIFT OF FILL INTO EXISTING SOIL SURFACE TO PROMOTE MIXING

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



FILL REQUIREMENTS

Depth of Fill (Upslope) : 17" - 19"
Depth of Fill (Downslope) : 11" - 12"
DEPTHS AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

Finished Grade Elevation
Top of Distribution Pipe or Proprietary Device
Bottom of Disposal Area

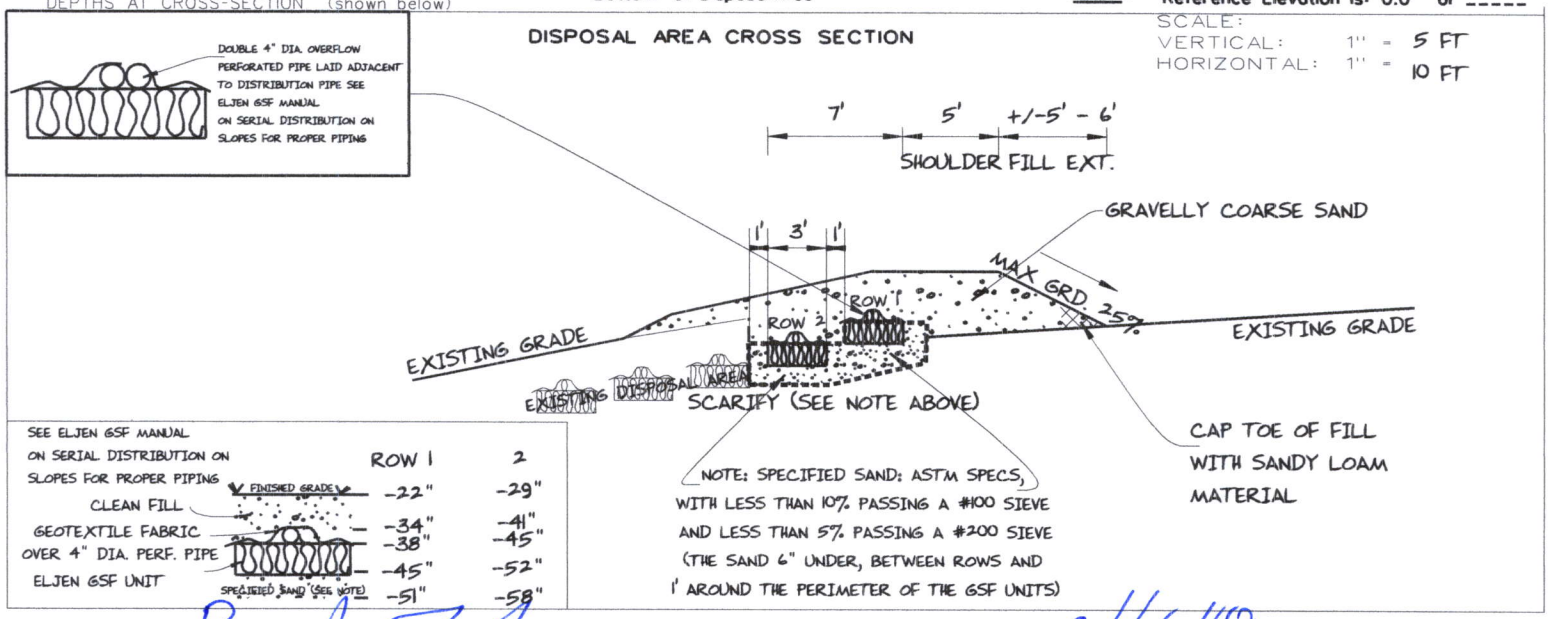
SEE DETAIL BELOW

ELEVATION REFERENCE POINT

Location & Description 10" DIA. FLAGGED HARDWOOD, NAIL 39" ABOVE BASE
Reference Elevation is: 0.0" or _____

DISPOSAL AREA CROSS SECTION

SCALE:
VERTICAL: 1" = 5 FT
HORIZONTAL: 1" = 10 FT



SEE ELJEN GSF MANUAL ON SERIAL DISTRIBUTION ON SLOPES FOR PROPER PIPING

	ROW 1	2
FINISHED GRADE	-22"	-29"
CLEAN FILL	-34"	-41"
GEOTEXTILE FABRIC	-38"	-45"
OVER 4" DIA. PERF. PIPE	-45"	-52"
ELJEN GSF UNIT	-51"	-58"
SPECIFIED SAND (SEE NOTE)		

B A F A
Site Evaluator Signature

352
SE #

5/16/18
Date

ALBERT FRICK ASSOCIATES – 380B MAIN STREET; GORHAM, MAINE 04038 – (207) 839-5563

Albert Frick Associates, Inc.
Soil Scientists & Site Evaluators
380-B Main Street Gorham, Maine 04038
(207) 839-5563

PORTLAND, PEAKS ISLAND	77 WOODS ROAD	N/F HANSEN - FOX
TOWN	LOCATION	APPLICANT'S NAME

1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Division of Health and Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system Installer should contact Albert Frick Associates, Inc. 839-5563, if there are any questions concerning materials, procedures or designs. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems.

2) This application is intended to represent facts pertinent to the Rules only. It shall be the responsibility of the owner/applicant, system Installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and Minimum Lot Size law) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations. Prior to the commencement of construction/installation, the local plumbing inspector or Code Enforcement Officer shall inform the owner/applicant and Albert Frick Associates, Inc of any local ordinances which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Albert Frick Associates, Inc.'s liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations in effect at the time of preparation of this application.

3) All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based upon information provided by the owner/applicant and has been relied upon by Albert Frick Associates, Inc. in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties but not readily visible above grade should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.

4) Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter shall be connected in series to the proposed septic tank. Risers and covers should be installed over the septic tank outlet per the "Rules" to allow for easy maintenance of filter.

5) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than every three years.

The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life.

6) All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion to within 6" of a finished ground surface.

Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND, PEAKS ISLAND	77 WOODS ROAD	N/F HANSEN - FOX
TOWN	LOCATION	APPLICANT'S NAME

7) The actual waste water flow or number of bedrooms shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed

8) The general minimum setbacks between a well (public or private) and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.

9) When a gravity system is proposed: BEFORE CONSTRUCTION/INSTALLATION BEGINS, the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pitch requirements. In gravity systems, the invert of the septic tank(s) outlet(s) should be at least 4 inches above the invert of the distribution box outlet at the disposal area.

10) When an effluent pump is required: Pump stations should be sized per manufacturer's specifications to meet lift requirements and friction loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and lid at or above grade. An alarm device warning of a pump failure shall be installed. Also, when pumping is required of a chamber system, install a ' T' connection in the distribution box and place 3 inches of stone or a splash plate in the first chamber. Insulate gravity pipes, pump lines and the distribution box as necessary to prevent freezing.

11) On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on plan may be necessary to replace organic matter. On sites where the proposed system is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal and fill extension area to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or differential settling). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off proprietary devices. Divert the surface water away from the disposal area by ditching or shallow landscape swales.

12) Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more that 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process.

13) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.

14) Seed all filled and disturbed surfaces with perennial grass seed, with 4" min. soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover system. Woody trees or shrubs are not permitted on the disposal area or fill extensions.

15) If an advanced wastewater treatment unit is part of the design, the system shall be operated and maintained per manufacturer's specifications.

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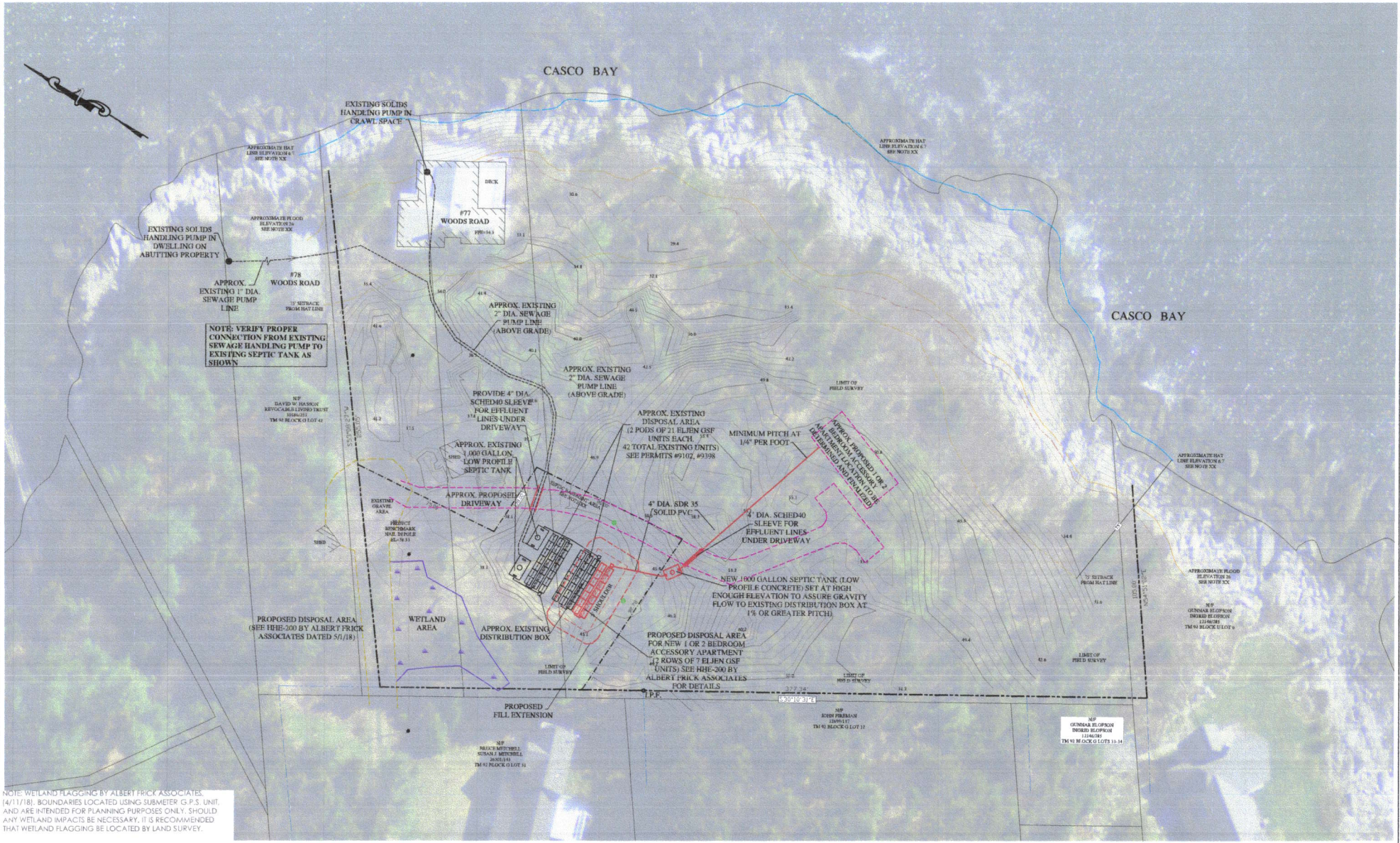

NOTE: WETLAND FLAGGING BY ALBERT FRICK ASSOCIATES (4/11/18). BOUNDARIES LOCATED USING SUBMETER G.P.S. UNIT, AND ARE INTENDED FOR PLANNING PURPOSES ONLY. SHOULD ANY WETLAND IMPACTS BE NECESSARY, IT IS RECOMMENDED THAT WETLAND FLAGGING BE LOCATED BY LAND SURVEY.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

PROPERTY INFORMATION PER PRELIMINARY SURVEY PLAN BY SURVEY INC. DATED JULY 2017

DATE:	REVISIONS:
4/13/18	WETLANDS DELINEATED AND GPS LOCATED
5/15/18	UPDATED PROPOSED DEPOSAL AREA

SITE PLAN
PREPARED FOR
N/F HANSEN-FOX
77 WOODS ROAD
(MAP 92, LOT G-36-1)
PEAKS ISLAND, MAINE

Albert Frick Associates, Inc.
Environmental Consultants
Gorham, Maine

Drawn By: B.J. | Checked By: A.F.
Date: 4/11/18 | Scale: 1" = 20'