Albert Frick Associates, Inc
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William O'Connor, SE
Noel Dunn, Office Manager

June 18, 2015

Jesse Mantsch
101 Luther Street
Peaks Island, Maine 04108

Re: Preliminary Soil Evaluation, N/F Walsh Property (Map 88,C,Lots 7,8 & 9), 234 Park Avenue, Peaks Island

Dear Mr. Mantsch:

We visited the above referenced property on June 3, 2015. The purpose of the site visit was to determine the potential for onsite wastewater disposal. Attached is the preliminary site plan with the test pit locations and soil conditions observed.

The soils in the vicinity of Test Pit # 1 were found to be suitable, per the State of Maine, Subsurface Wastewater Disposal Rules. The soil is classified as 2 AIII, with bedrock encountered at 26". A typical 3 bedroom dwelling would require a 1000 gallon septic tank along with a 15' x 20' Eljen GSF disposal field or equivalent.

A completed Subsurface Wastewater Disposal System Design (HHE-200 Form) in order to obtain the necessary building permit to install the system. Please contact me if you have any questions or would like to have the design completed.

Respectfully,

Albert Frick

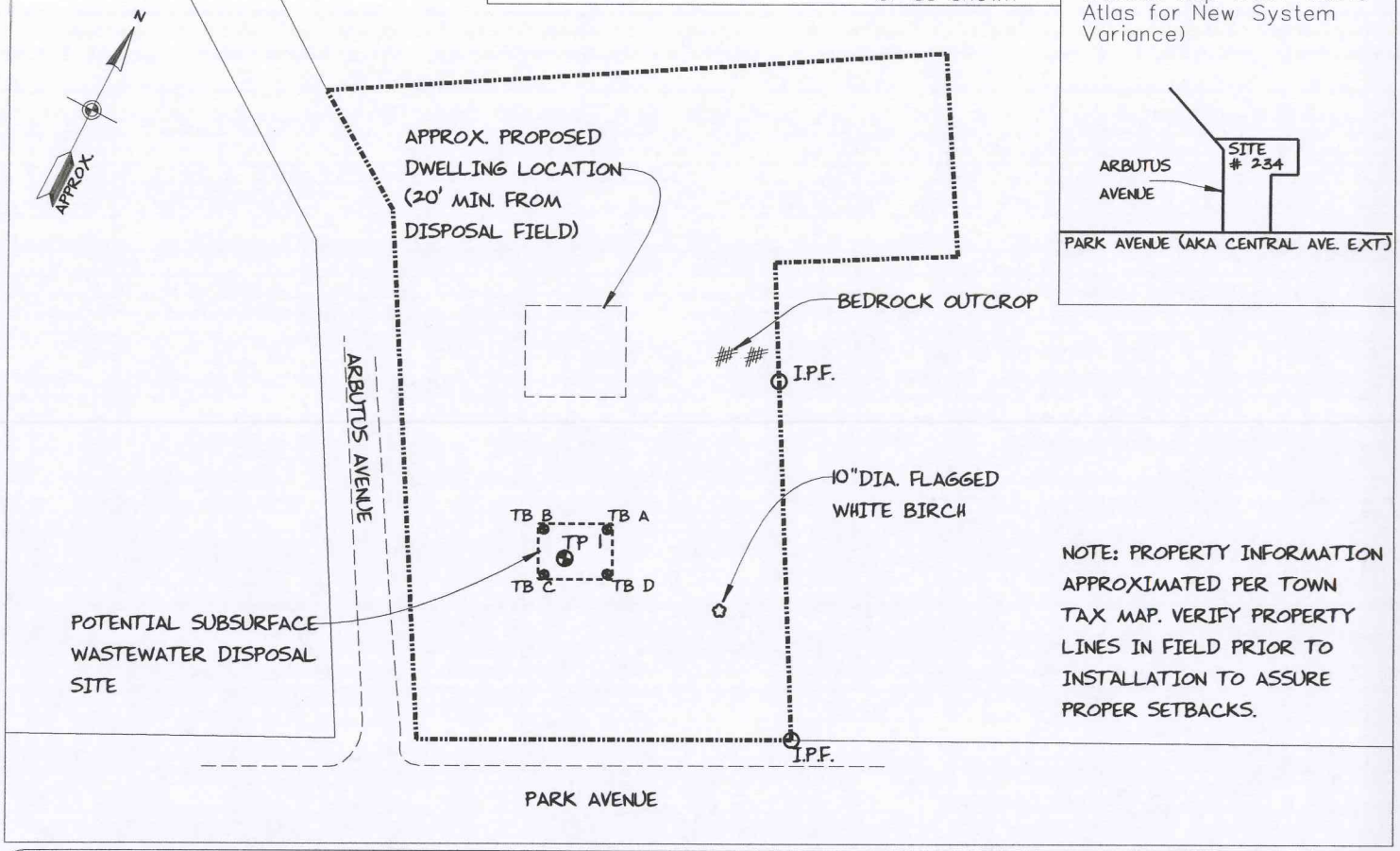
ML/ml

Town, City, Plantation: PORTLAND, PEAKS ISLAND

Street, Road Subdivision: 234 PARK AVENUE

Owner's Name: JESSE MANTSCH

SITE PLAN — Scale 1" = 50 Ft. or as shown



SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)

NOTE: PROPERTY INFORMATION APPROXIMATED PER TOWN TAX MAP. VERIFY PROPERTY LINES IN FIELD PRIOR TO INSTALLATION TO ASSURE PROPER SETBACKS.

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
0–10	FINE SANDY LOAM	FRIABLE	DARK BROWN	
10–30			YELLOWISH BROWN	
30–50	REFUSAL (LARGE STONES/BEDROCK)			

Soil Classification: Profile	Soil Classification: Condition	Slope	Limiting Factor	
2	AIII	5-8%	26"	☐ Ground Water ☐ Restrictive Layer ■ Bedrock ☐ Pit Depth

Observation Hole TB A-D ☐ Test Pit ■ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0–10				
10–30	TB A= 29" TO REFUSAL TB B= 28" TO REFUSAL TB C= 27" TO REFUSAL			
30–50	TB D= 26" TO REFUSAL			

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

Albert Frick
Site Evaluator Signature

163
SE #

6/18/15
Date

ALBERT FRICK ASSOCIATES – 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 – (207) 839-5563

Fill Estimation Worksheet

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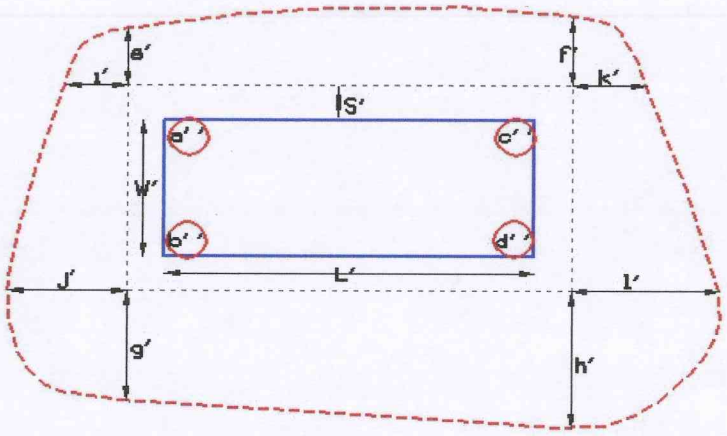
Town: PORTLAND, PEAKS ISLAND
Project owner/applicant: JESSE MANTSCH
234 PARK AVENUE-2 BEDROOM

This worksheet is being provided as a complimentary tool to assist in estimating the **approximate** amount of fill required to construct the proposed system. This worksheet does not substitute for a personal visit to the site for your own estimate. These calculations are intended to serve as a check to your work. Site features beyond the model (terrain) can vary to affect model projections.



Length (L)	20.00	feet
Width (W)	11	feet
Shoulder (S)	5	feet
Depth of fill:		
upper left (a)	19	inches
upper right (c)	19	inches
lower left {b)	21	inches
lower right (d)	27	inches
Fill Extension:		
left up (e)	6	feet
right up (f)	6	feet
left down (g)	7	feet
right down (h)	9	feet
upper left (i)	6	feet
lower left (j)	6	feet
upper right (k)	7	feet
lower right (l)	9	feet
Cost of fill per yard= $	0.00	

15 ELJEN GSF UNITS

Body	42 cubic yards
Fill Down	9 cubic yards
Fill Up	6 cubic yards
Fill left	4 cubic yards
Fill right	6 cubic yards
Fill upleft	1 cubic yards
Fill upright	1 cubic yards
Fill dwnleft	1 cubic yards
Fill dwnright	2 cubic yards

SubTotal=	**72 cubic yards**
Shrinkage %=	**15 %**
Total Backfill	**83 cubic yards**

Adjusted cost of Total Backfill= $ -

Fill Estimation Worksheet

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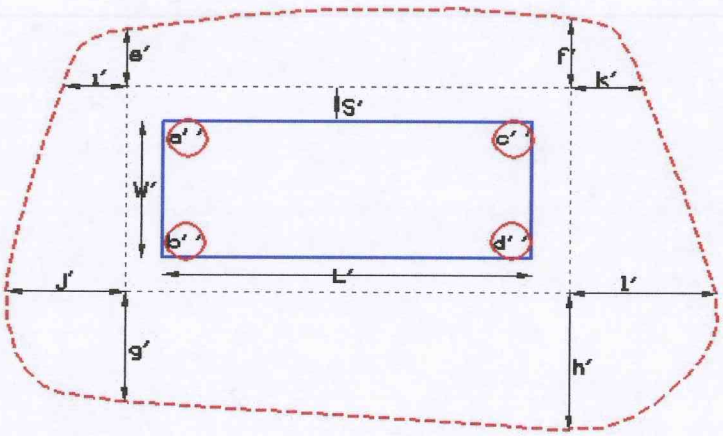
Town: PORTLAND, PEAKS ISLAND
Project owner/applicant: JESSE MANTSCH
234 PARK AVENUE-3 BEDROOM

This worksheet is being provided as a complimentary tool to assist in estimating the **approximate** amount of fill required to construct the proposed system. This worksheet does not substitute for a personal visit to the site for your own estimate. These calculations are intended to serve as a check to your work. Site features beyond the model (terrain) can vary to affect model projections.



Length (L)	20.00	feet
Width (W)	15	feet
Shoulder (S)	5	feet
Depth of fill:		
upper left (a)	19	inches
upper right (c)	19	inches
lower left {b)	21	inches
lower right (d)	27	inches
Fill Extension:		
left up (e)	6	feet
right up (f)	6	feet
left down (g)	7	feet
right down (h)	9	feet
upper left (i)	6	feet
lower left (j)	6	feet
upper right (k)	7	feet
lower right (l)	9	feet
Cost of fill per yard= $	0.00	

20 ELJEN GSF UNITS

Body	50 cubic yards
Fill Down	9 cubic yards
Fill Up	6 cubic yards
Fill left	5 cubic yards
Fill right	8 cubic yards
Fill upleft	1 cubic yards
Fill upright	1 cubic yards
Fill dwnleft	1 cubic yards
Fill dwnright	2 cubic yards

SubTotal=	**83 cubic yards**
Shrinkage %=	**15 %**
Total Backfill	**95 cubic yards**

Adjusted cost of Total Backfill= $ -