Location of Construction:	Owner:		Phone:	Permit No: 9 8-0 6 9 5
Castillas Lalama Oscara Are	Lessee/Buyer's Name:	Phone:	BusinessName:	PERMIT ISSUED
Owner Address: 95 Descritelà Pola, 95 04101	Lessec/Buyer s Nume.			Permit Issued:
Contractor Name:	Address:	Phone:		JUL - <b>3</b> 1998
The Thurter 644	828-3553	COST OF WORK:	PERMIT FEE:	- 002
Past Use:	Proposed Use:	\$ 140,000.	9 720.00	CITY OF PORTLAND
	X	FIRE DEPT. □ Ap	proved INSPECTION:	Control of the Contro
Vacant Land	Long Later	☐ Der	nied Use Group: Type:	
<b>\</b>			CAR A Carl A	Zone: 1064-A-013
		Signature:	Signature:   FIVITIES DISTRICT (P.A.D.	Zoning Approval:
Proposed Project Description:			proved	Special Zone or Reviews:
		Action. Ap	proved with Conditions:	□ Shoreland
The second discountry of the second discountry	A was		enied	□ □ Wetland → And A
Construct Single Family Owell			Datas	☐ Flood Zone ☐ Subdivision
		Signature:	Date:	☐ Site Plan maj ☐minor ☐mm
Permit Taken By: Hary Gresik	Date Applied For:	29 Key 1998		Zoning Appeal
55"		_		□ Variance
1.1.4	- A-plicant(s) from meeting applica	11. Ct-to and Endard rules		
1. This permit application does not preclude the	e Applicani(s) from meeting applied	able State and Federal rules.		□ Miscellaneous
This permit application does not preclude the     Building permits do not include plumbing,	septic or electrical work.			☐ Conditional Use
2 Ruilding permits do not include plumbing,	septic or electrical work.			☐ Conditional Use☐ Interpretation
<ol> <li>Building permits do not include plumbing,</li> <li>Building permits are void if work is not start</li> </ol>	septic or electrical work. ed within six (6) months of the date			☐ Conditional Use
2 Ruilding permits do not include plumbing,	septic or electrical work. ed within six (6) months of the date			☐ Conditional Use ☐ Interpretation ☐ Approved ☐ Denied
<ol> <li>Building permits do not include plumbing,</li> <li>Building permits are void if work is not start</li> </ol>	septic or electrical work. ed within six (6) months of the date			☐ Conditional Use ☐ Interpretation ☐ Approved ☐ Denied  Historic Preservation
<ol> <li>Building permits do not include plumbing,</li> <li>Building permits are void if work is not start</li> </ol>	septic or electrical work. ed within six (6) months of the date			□ Conditional Use □ Interpretation □ Approved □ Denied  Historic Preservation □ Not in District or Landmark □ Does Not Require Review
<ol> <li>Building permits do not include plumbing,</li> <li>Building permits are void if work is not start</li> </ol>	septic or electrical work. ed within six (6) months of the date			☐ Conditional Use ☐ Interpretation ☐ Approved ☐ Denied  Historic Preservation ☐ Not in District or Landmark
<ol> <li>Building permits do not include plumbing,</li> <li>Building permits are void if work is not start</li> </ol>	septic or electrical work. ed within six (6) months of the date			□ Conditional Use □ Interpretation □ Approved □ Denied  Historic Preservation □ Not in District or Landmark □ Does Not Require Review □ Requires Review
<ol> <li>Building permits do not include plumbing,</li> <li>Building permits are void if work is not start</li> </ol>	septic or electrical work. ed within six (6) months of the date			□ Conditional Use □ Interpretation □ Approved □ Denied  Historic Preservation □ Not in District or Landmark □ Does Not Require Review
<ol> <li>Building permits do not include plumbing,</li> <li>Building permits are void if work is not start tion may invalidate a building permit and start tion may invalidate.</li> </ol>	septic or electrical work.  sed within six (6) months of the date top all work	of issuance. False informa-		□ Conditional Use □ Interpretation □ Approved □ Denied  Historic Preservation □ Not in District or Landmark □ Does Not Require Review □ Requires Review  Action: □ Appoved
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### **COMMENTS**

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9-14-95 That contender on Stout Checker our de men
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Inspection Record
Type Date
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Plumbing: Plumbing:
Final:



### CITY OF PORTLAND, MAINE

Department of Building Inspection

# Certificate of Occupancy

LOCATION Ottawa Ave. Crahing Avenue CBL#106A-A-013

Issued to

Sidney Thaxter

Date of Issue

This is to certify that the building, premises, or part thereof, at the above location, built — altered — changed as to use under Building Permit No. 980695, has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

#### PORTION OF BUILDING OR PREMISES

Single Family Dwelling

APPROVED OCCUPANCY

Use Group R-3 Type 5B BOCA 1996

**Limiting Conditions:** 

N/A

This certificate supersedes certificate issued

Approved:

(Date)

Inspector

Inspector of Buildings

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.

106A-H-OLDepartment of Human Services

SUBS	URFACE WASTEV	VATER D	isposa	L SYSTI	EM APPLICATION		(207)289-3826		
	PROPERTY ADDRE		samber greek	CHENTENE.		<b>经外代外</b>			
Town Or Plantation	PORTLAND		·		atter a monthly				
Street Subdivision Lot #	0 00 1	-AND		POR	TLAND PERM	IT # 64			
on and participation P	ROPERTY OWNERS	NAME	13454	l Pe	$\alpha$	\$	Double Fee Charged		
Last: THAXT	ER First: SIDA	VEY		165	SMP-on puritibing improctor Stephinters	14011	4.2.4		
Applicant Name:	JOHN THAN	· 12			2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		Sign of the state		
Mailing Address of Owner/Applicant	THAXTER COMP.	ANY I DTS.	-1						
(If Different)	Owner/Applicant	Statement			Caution: Ins	snection	Bequired		
I certify that the In knowledge and under Plumbing Inspector	formation submitted is correct erstand that any falsification is r	to the best of i	my ocal 5/9/1		I have inspected the instate to be in compliance with the Sur	llation autho	rized above and found it to		
270	Signature of Owner/Applicant	100/	Date		Local Plumbing Inspector S	Signature	Date Approved		
			PI	ERMIT INFO	RMATION				
	PLICATION IS FOR:	Y	TUIC	VDDI ICV.	TION REQUIRES:	INSTAI	LLATION IS:		
1. 🗷 NEW	SYSTEM			RULE VAR			TE SYSTEM		
2. REPL	_ACEMENT SYSTEM ANDED SYSTEM		2 ∏ NE	W SYSTEM	VARIANCE	1. 🐼 N	ON-ENGINEERED SYSTEM		
4.  EXPE	ERIMENTAL SYSTEM		Atta	ach New Sy	stem Variance Form	RIMITIVE SYSTEM			
SEASO	NAL CONVERSION		3. ⊔ RE Atta	REPLACEMENT SYSTEM VARIANCE (Includes Alternative Toilet)  Attach Replacement System Variance Form  3.   ENGINEERED (+2000 gpd)					
	mpleted by the LPI	DI II E C		Requiring Local Plumbing Inspector Approval INDIVIDUALLY INSTALLED COMPONENTS:					
5. U SYS	TEM COMPLIES WITH F INECTED TO SANITARY	SEWER		Requires State and Local Plumbing Inspector Approval  4.   TREATMENT TANK (ONLY)					
7. 🗆 SYS	TEM INSTALLED P# _			MINIMUM LOT SIZE VARIANCE 5. HOLDING TANK GA					
8. LI SYS	TEM DESIGN RECORD ATTACHED			6. ☐ ALTERNATIVE TOILET (ONLY)					
IF REPLA	ACEMENT SYSTEM:		DISP	OSAL SY	STEM TO SERVE:	li .	ON-ENGINEERED DISPOSAL AREA DNLY)		
	LING SYSTEM INSTALL	.ED	1. <b>⊠</b> SI	NGLE FAM	ILY DWELLING	1	NGINEERED DISPOSAL AREA		
	NG SYSTEM IS: 3.   TRENCH		2. 🗆 M	MODULAR OR MOBILE HOME (ONLY)					
1. ☐ BED 2. ☐ CHAMBE			з. □ м	ULTIPLE F	AMILY DWELLING	EPARATED LAUNDRY SYSTEM			
SIZE OF PRO	1	G	4. 🗆 Oʻ	THER		1	PE OF WATER SUPPLY		
40,00	0 <sup>1</sup> /		L		SPECIFY		LIC WATER		
41146-1516		DESIG	N DETAILS	(SYSTEM L	AYOUT SHOWN ON PAGE :	3)	A Commence of the second secon		
	REATMENT TANK	/	R CONSERV		PUMPING		CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING,		
	1 SQ SEPTIC: SQ Regular 1. NONE				1. ☑ NOT REQUIRED 2. ☐ MAY BE REQUIRE		EMPLOYEES, WATER RECORDS, ETC.)		
Low Profile 2. Kd. LOW V			APPART PRO	P SYSTEM	(DEPENDING ON TREAT LOCATION AND ELEVAT				
4: ALTERN			NATIVE TOI		3.   REQUIRED	·	SINGLE		
SIZE: 1,000 GALS. SPECIFY: _					DOSE:	GALS.	PAMILY		
SOIL CONDITIONS USED FOR SIZE RATINGS US					DISPOSAL AREA TYPE		(4 BEDROOM)		
DESIGN PURPOSES DESIGN PURP PROFILE   CONDITION   1.				565	1. BED				
		2. MEDI			CHAMBER 612	<u>.                                    </u>	DESIGN		
	2 A	3. ⋈ MEDI 4. ☐ LARG	UM-LARGE SE		3. TRENCH		FLOW: 360		
DEPTH TO LIMITING FACTOR:	21.	5. 🗆 EXTR			4. OTHER:		(GALLONS/DAY)		
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SITE EVALUATOR STATEMENT

On JUNE 7. 1989	(date) I conducted a site evaluation for	this project and certify that th	e data reported is accurate. The
system I propose is in accord	lance with the Subsurface Wastewater	Diamond Dulon	•
allet !	Mich	1/3	6/17/89

Site Evaluator Signature

Date

Page 1 of 3 HHE-200 Rev. 11/86

Department of Human Services SUBSURFACE WASTEWATER F POSAL SYSTEM APPLICATION Division of Health Engineering Owners Name Street, Road, Subdivision Town, City, Plantation THAXTER SIDNEY PORTLAND CUSH ING ISLAND SITE LOCATION PLAN (Attach SITE PLAN TENNIS COURT Map from Maine Atlas for Scale 1" New System Variance) CUSHING EXISTING DWELLING. BEDROCK THAXTER CASCO 185 TBB PROPOSED DISPOSA AREA TBIO TB9) TP MAY BE RELOCATED TO BE A MINIMUM OF 15: FROM DISPOSAL A  $\mathbf{\Pi}_{i}$ A NEIGHBORING (Location of Observation Holes Shown Above) SOIL DESCRIPTION AND CLASSIFICATION Observation Hole\_ TPT ☑ Test Pit ☐ Boring Test Pit ☐ Boring TP5 Observation Hole Depth of Organic Horizon Above Mineral Soil " Depth of Organic Horizon Above Mineral Soil Color Mottling Mottling Texture Consistency Consistency Color Texture SANDY. LOAM. DARK SANDY LAMAGI DEPTH BELOW MINERAL SOIL SURFACE (Inches) DEPTH BELOW MINERAL SOIL SURFACE (Inches) BROWN FRIABLE PRIABLE DARK GRAVELL PROWN 104R416 20 BEDROC Soil 2 Profile ☐ Ground Water Classification Slope Limiting Factor Soil 2 Limiting Factor ☐ Ground Water Classification Slope ☐ Restrictive Lay Restrictive Laye 24 Profile Page 2 of 3 HHE-200 Rev.1/84

SE#

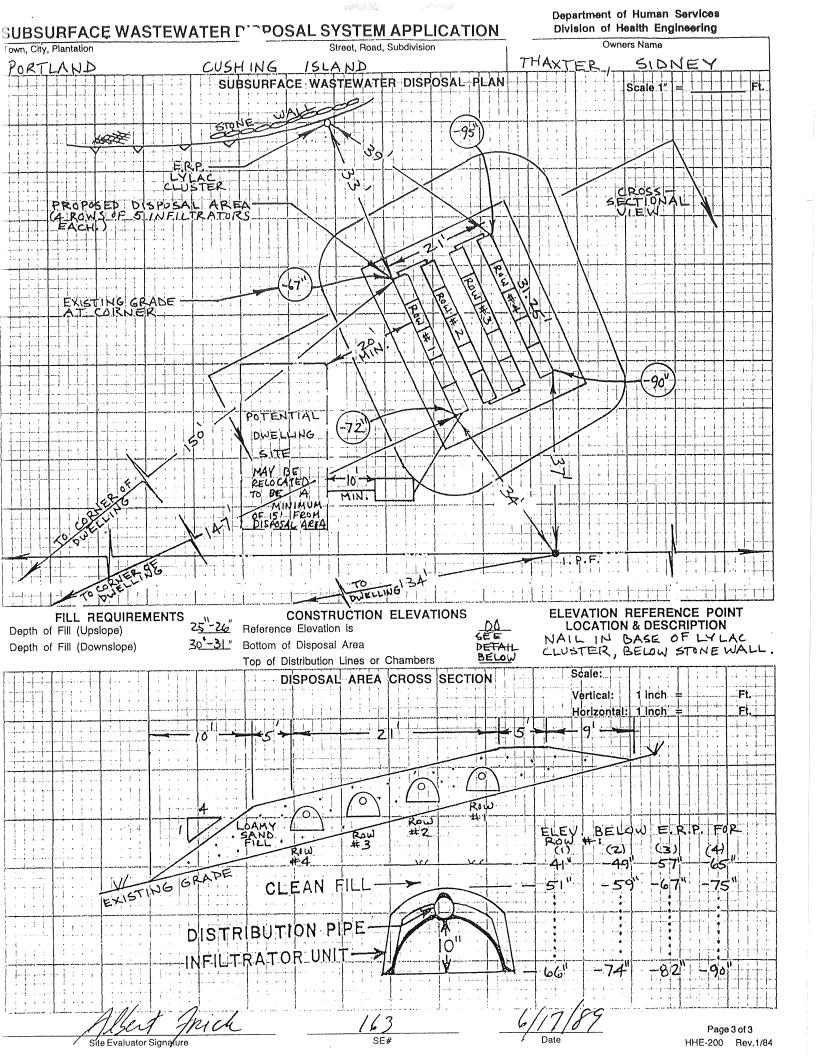


n, Cit	y, Plantation			Street, Ro	oad, S	Subdiv	rision		Owners Nam	10
	STLAND		CUSHING	ISLAND				THAXTER	L SIDK	IEY
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DS	ervation hole	" Depth of Organic			Ш			" Depth of Organic		

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5	& -l   		sification Slope	E Limiting Factor	Or Ground Water Restrictive Layer Redrock			Soil	Classification	Slope	Limiting Factor	Ground Water Bestnotive Layer Bedrock
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Albert Mich

/6 ) SE# 6/17/89 Date



1607-17-013

	PROPERTY	LOCATION	SIOI OOAL (	SYSTEM AP			Department of Human Services Division of Health Engineering (207) 287-5672 FAX (207) 287-4172
Town or Plantation	PORTLAND				XXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Street Subdivision Lot •	CUSHING :	Date Permit Issued:	7114	98	\$535 ICUN 2009Y		
	PROPERTY OW	VNER'S NAME		Local Plu	ımbing inspector s	Signature	L.P.I. # 2 1/ 12 1 /
Lost: THAXTER		st:		××××××××××××××××××××××××××××××××××××××	/VV		
Applicant's Name		SIDNEY ST	; F.				
Mailing Address of Owner	P.O. BO)	AXTER STEVE X 7320	.NS et al				
Doytime Tel. *	PORTLAND,	ME 041 12	774-9000	Municipal Tax Map	*		
	Owner Sta	atement		meneral rax map			Lot *
Istate that the info knowledge and unde Department and/or	rmation submitte	ed is correct to t	he best of my		Cautio	n: Inspe	ection Required
Department and/or Signature of o	JEL	A Spector to deny	1498	I have inspect compliance w	ed the insta ith the Subs	ollation au surface W	uthorized above and found it to be in Vastewater Disposal Rules Application
	тррисин		Date	"Local Plumbing	Inspector Sign	alure	Date Approved
TVDF OF 15			PERMIT	INFORMATION			Date Approved
TYPE OF AP			THIS APPLICAT	TON REQUIRES:			ISDOON OVER THE PROPERTY OF TH
1.  First Time 2.  Replacem Type Replaced Year Installed 3.  Expanded 0 a. one tim 0 b. non exe 4.  Experimen 5.  Seasonal C	System System e exempted mpted tal System onversion	2.   Ne 3.   Fin 4.   Re 0.   S.   S.   Mir	:placement Syste Local Plumbina Ti	em Variance  Inspector approval  Iumbing Inspector  Variance		1. ■ No 2. □ Pr 3. □ Alt 4. □ No 5. □ Ho 6. □ No 7. □ Sel 8. □ Eng	ISPOSAL SYSTEM COMPONENT(S)  on-Engineered System imitive System(graywater & alt toil ernative Toilet n-Engineered Treatment Tank Iding Tank Gallons n-Engineered Disposal Area (only) parated Laundry System gineered System (+2000 gpd)
SIZE OF PR		1, 🐞 Sin	DISPOSAL SYSTE	ina Unit		ייטיריז בעל	gineered Treatment Tank (only) gineered Disposal Area (only) streatment
SHORELAND		2. ☐ Mul Units	tiple Family Dwe	lling: Number of		<b></b>	
☐ Yes	■ No		ier		ľ		TYPE OF WATER SUPPLY
	INO INO	A Project &			\	PROF	OSED DRILLED WELL
Tag. 2		DESIGN D	ETAILS (SYSTEM	LAYOUT SHOWN C	N PAGE 3)		
	file 3	Bed	Device_152Sq. Linear H-20 IN-DRAINS	1. ■ No 2. □ Yes □ Multi-c □ Tank ir □ Increas	DISPOSAL  ompartmen  series e in tank out	t tank	CRITERIA USED FOR DESIGN FLOW (Show Calculations)  4 BEDROOMS AT 90 GALLONS PER DAY EACH =
PTH TO MOST	ESIGN 1. 2 3. 4.	DISPOSAL A  Small - 2.0  Medium -  Medium-Lar  Large - 4.  Extra-Larg	0 2.60 ge - 3.30 10	1. Not red	required	Dns.	DESIGN FLOW: <b>360</b>
o Olimbar			SITE EVALUATO				(Gallons/Day)
On <b>8//7/98</b> (date proposed sytem is	e) I completed in compliance	site evaluation with the Subsur			the data re	eported	is accurate and that the
011	· 1.	/		podrivales,		,	

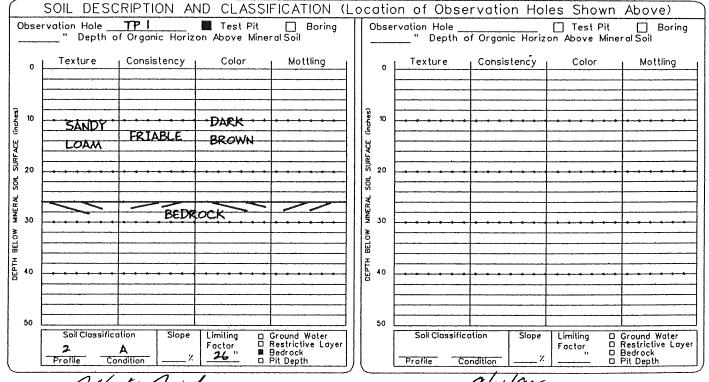
ALBERT FRICK ASSOCIATES - 96A COUNTY ROAD GORHAM, MAINE 04038 - (207) 839-6663

Page 1 of 3 HHE-200 Rev. 5/95

### SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services Division of Health Engineering

T 0'1 Di 1 1'		-101 74 7 21071110		Division of Health Engineering
Town, City, Plantation	Street,	Road Subdivision		Owner's Name
PORTLAND	CUSHING ISLA	AND		PETE THAXTER
·	SITE PLAN	Scale 1" or as	shown	SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)
equition is a second of the se		APPROXIMATE PROPOSED	1	J. + S. THAXTER
dia recording to the second		DWELL INS FOC	ATTON	G FERRY LANDING
	osh V			
	And the second of the second o			
	(SEE PLAN ATTATCI	ÆD)	·	



63

Date

Site Evaluator Signature

# CURTIS THAXTER STEVENS BRODER & MICOLEAU LLC

ONE CANAL PLAZA, P.O. BOX 7320, PORTLAND, ME 04112-7320 / TEL: 207-774-9000 FAX: 207-775-0612 / WEBPAGE: www.curthax.com

Sidney St. F. Thaxter sst@curthax.com

July 10, 1998

185 STATE STREET P.O. BOX 5307 AUGUSTA, ME 04332 TEL: 207-626-0388 FAX: 207-626-3052

KEY PLAZA 23 WATER STREET P.O. BOX 2205 BANGOR, ME 04402-2205 TEL: 207-942-4411 FAX: 207-942-4488

Mr. Samuel Hofses City of Portland Building Inspector 389 Congress Street Portland, Maine 04101

RE:

Thaxter Property Located at

Ottawa Avenue, Cushings Island

Dear Sam:

Enclosed is a copy of the building permit for my property as referenced above. Please note that provision 29, ("A State subsurface wastewater disposal permit must be obtained before any work begins") has been met.

Also enclosed is a copy of the permit that had already been issued to me by your office. We are going to proceed with construction based on that permit.

Thank you for your cooperation.

Sincerely,

Sidney St. F. Thaxter

SST/rbh Enclosures

O:\SST\CUSHINGS\HOFSES.LTR



PORTLAND

CUSHING ISLAND

THAXTER ADDITION TO NAME

TOWN

LOCATION

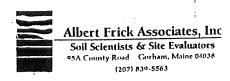
- The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or 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.
- 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 laws) 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 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 solely 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.
- 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 should be connected in series to the proposed septic tank.
- 5) 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) and controlled or hazardous substances shall not be disposed of in this system.

PORTLAND	CUSHING ISLAND	THAXTER
TOWN	LOCATION	APPLICANT'S NAME

- 6) 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 once every three years.
- 7) The actual 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. If the system is supplied by public water or a private service with a water meter, the water consumption per period should be divided by the number of days to calculate the average daily water consumption (water usage (cu.ft.) x 7.48 cu.ft.(gallons per cu.ft.) + # of days in period).
- 8) The general minimum setbacks between a well 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.
- When a gravity system is proposed: <u>BEFORE CONSTRUCTION/INSTALLATION BEGINS</u>, 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 slope requirements. In gravity systems, the invert of the septic tank(s) outlet(s) shall be at least 4 inches above the invert of the distribution box outlet at the disposal area. When an effluent pump is required, provisions shall be made to make certain that surface ground water does not enter the septic tank or pump station. An alarm device warning of a pump failure shall be installed. Also, when pumping is required to 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.
- On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. 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 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 thoroughly before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off the chambers. Divert the surface water away from the disposal area by ditching or shallow swales.
- 11) Unless noted otherwise, fill shall be gravelly coarse sand which contains no more than 5% fines (silt and clay).
- 12) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.
- 13) Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion.



Department of Human Services SUBSURFACE WASTEWATER F POSAL SYSTEM APPLICATION Division of Health Engineering Owners Name Street, Road, Subdivision Town, City, Plantation SIDNEY. THAXTER CUSHING. AND PORTLAND SITE LOCATION PLAN (Attach SITE PLAN TENNIS COURT Map from Maine Atlas for 40 Scale 1" New System Variance) CUSHING ISLAND EXISTING DWELLING. DOCK THAXTER CASCO BAY LYLAC P5 TBB 787 PROPOSED DISPOSA TBIO TP6 MAY BE RELOCATED BE A MINIMUM OF FROM DISPOSAL ARE V.P.F. Δ (1) NEIGHBORING (Location of Observation Holes Shown Above) SOIL DESCRIPTION AND CLASSIFICATION ☑ Test Pit ☐ Boring ▼ Test Pit □ Boring TPZ Observation Hole \_ Observation Hole Depth of Organic Horizon Above Mineral Soil Depth of Organic Horizon Above Mineral Soil Mottling Consistency Color Color Mottling Texture Consistency Texture SANDY SURFACE (Inches) DEPTH BELOW MINERAL SOIL SURFACE (Inches) BROWN. LOAM FRIABLE PRIABL GRAVELL DARK YELIXWISE Brown TOAMY SAND 104R416 SOIL 20 DEPTH BELOW MINERAL ☐ Ground Wet Soil 2 Profile Classification Limiting Factor Limiting Factor Ground Wate Classification Slope Soll Restrictive Laye 2 24

Albert Mich

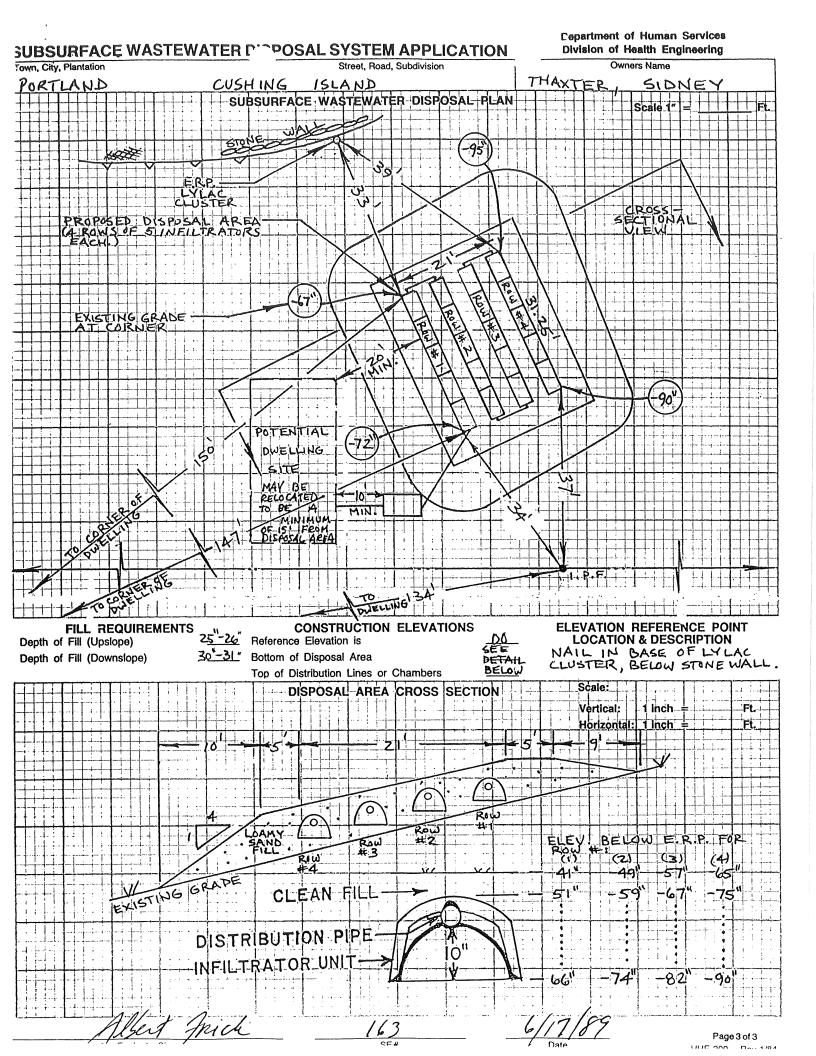
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6/17/89

Page 2 of 3



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Department of/Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207)289-3826 PROPERTY ADDRESS Town Or **PORTLAND** APPLICANTS COPY Plantation PORTLAND Date Permit Street Subdivision Lot # CUSHING ISLAND PROPERTY OWNERS NAME Last: THAXTER First: SIDNEY THE WORK SPECIFIED IN THIS APPLICATION IS HEREBY Applicant Name: AUTHORIZED TO BE INSTALLED IN ACCORDANCE WITH THE RULES. THIS PERMIT EXPIRES AFTER TWO YEARS NHOL THAXTER THAKTER COMPANY FROM DATE ISSUED UNLESS WORK HAS COMMENCED. Mailing Address of Owner/Applicant (If Different) PORTLAND, ME. 04112 **Owner/Applicant Statement** I certify that the Information submitted is correct to the best of my Caution: Inspection Required rowledge and understand that any lastification is reason for the Local Plumbing Inspector to deny a Permit. I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules. Signature of Owner/Applicant Local Plumbing Inspector Signature Date Approved 4.0 上海沙埃等中共企业的安全 PERMIT INFORMATION THIS APPLICATION IS FOR: THIS APPLICATION REQUIRES: **INSTALLATION IS:** 1. BY NEW SYSTEM 1. A NO RULE VARIANCE 2. REPLACEMENT SYSTEM **COMPLETE SYSTEM** 3. 

EXPANDED SYSTEM 2. 

NEW SYSTEM VARIANCE 1. NON-ENGINEERED SYSTEM 4. 

EXPERIMENTAL SYSTEM Attach New System Variance Form 2. PRIMITIVE SYSTEM 3. 

REPLACEMENT SYSTEM VARIANCE **SEASONAL CONVERSION** (Includes Alternative Toilet) Attach Replacement System Variance Form to be completed by the LPI a. 

Requiring Local Plumbing Inspector Approval 5. SYSTEM COMPLIES WITH RULES INDIVIDUALLY INSTALLED COMPONENTS: b. 

Requires State and Local Plumbing Inspector 6. CONNECTED TO SANITARY SEWER 4. TREATMENT TANK (ONLY) Approval 7. SYSTEM INSTALLED - P# 4. MINIMUM LOT SIZE VARIANCE 5. HOLDING TANK \_\_\_\_\_ 8. D SYSTEM DESIGN RECORDED AND ATTACHED 6. ☐ ALTERNATIVE TOILET (ONLY) 7. NON-ENGINEERED DISPOSAL AREA IF REPLACEMENT SYSTEM: **DISPOSAL SYSTEM TO SERVE:** 1. (ONLY) YEAR FAILING SYSTEM INSTALLED 1. X SINGLE FAMILY DWELLING 8. DENGINEERED DISPOSAL AREA THE FAILING SYSTEM IS: (ONLY) 2. 

MODULAR OR MOBILE HOME 1. D BED 3. II TRENCH 2. CHAMBER 4. 

OTHER: 9. 

SEPARATED LAUNDRY SYSTEM 3. 

MULTIPLE FAMILY DWELLING SIZE OF PROPERTY ZONING 4. OTHER \_ TYPE OF WATER SUPPLY 40,000° SPECIFY PUBLIC WATER DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3) **CRITERIA USED FOR PUMPING** TREATMENT TANK WATER CONSERVATION DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.) 1. A NOT REQUIRED 1. SEPTIC: SR Regular 1. NONE 2. A LOW VOLUME TOILET.
3. SEPARATED LAUNDAY SYSTEM 2. MAY BE REQUIRED Low Profile (DEPENDING ON TREATMENT TANK 2. AEROBIC LOCATION AND ELEVATION)

# DEPTH TO LIMITING FACTOR:

SITE EVALUATOR STATEMENT

1,000

SOIL CONDITIONS USED FOR

**DESIGN PURPOSES** 

GALS.

CONDITION

SIZE:

**PROFILE** 

On JUNE 7, 1989	(date) I conducted a site evaluation for this project and certify	that the data reported is accurate. The
system I propose is in accor	dance with the Subsurface Wastewater Disposal Rules.	and the data reported is accurate. The

3. REQUIRED

DISPOSAL AREA TYPE/SIZE

2. CHAMBER 612 Sq. Ft.

3. TRENCH \_\_\_\_\_ Linear Ft.

REGULAR H-20

DOSE:

1. 🗌 BED

4. OTHER:

4. ALTERNATIVE TOILET

SIZE RATINGS USED FOR DESIGN PURPOSES

SPECIFY:

3. MEDIUM-LARGE

5. ☐ EXTRA LARGE

1. SMALL

4. LARGE

2. MEDIUM

Page 1 of 3

SINGLE

FAMILY

**DESIGN** 

FLOW:

DWELLING

(4 BEDROOM)

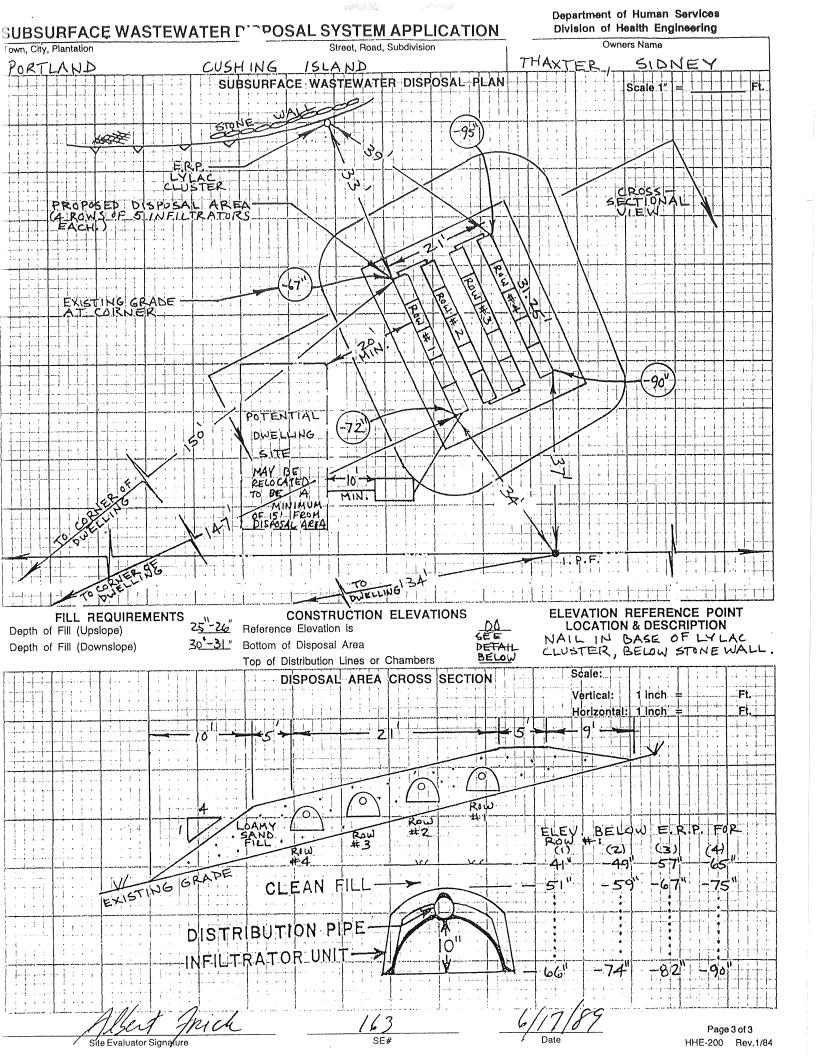
360

(GALLONS/DAY)

GALS.

Sq. Ft.

(Local Plumbing Inspector's Signature



Form # P 04

AT \_\_\_

## DISPLAY THIS CARD ON PRINCIPAL FRONTAGE

# Y OF PORTLAND

Please Read Application And Notes, If Any, Attached

This is to certify that

has permission to \_\_\_

BUILDING INSPECTION

PERMIT

The Thaxter Co.

Construct Single Family Dwelling

Ottawa Ave, Gushing Island]

provided that the person or persons firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is latined or otherwise closed-in 2. HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

**OTHER REQUIRED APPROVALS** 

Fire Dept. Health Dept. \_

Appeal Board

Other \_ Department Name

PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT REPORT

	DATE: 30 June 98 ADDRESS: Cushing Island OTTOWN AVE (106A-A-613)
	REASON FOR PERMIT: To Construct a single family dwelling
	BUILDING OWNER: Sidney ThaxTex
	contractor: The Thaxter Co.
	PERMIT APPLICANT:
	use group $R-3$ boca 1996 construction type $5B$
	CONDITION(S) OF APPROVAL
	This Permit is being issued with the understanding that the following conditions are met:
	Approved with the following conditions: \(\times_1, \frac{\times_2, \times_2, \frac{\times_2, \times_2, \frac{\times_2, \times_2, \times_2, \frac{\times_2, \times_2, \tim
*	2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services
*	must be obtained. (A 24 hour notice is required prior to inspection)  Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. The drain shall extend a minimum of 12 inches beyond the outside edge of the footing. The thickness shall be such that the bottom of the drain is not higher than the bottom of the base under the floor, and that the top of the drain is not less than 6 inches above the top of the footing. The top of the drain shall be covered with an approved filter membrane material. Where a drain tile or perforated pipe is used, the invert of the pipe or tile shall not be higher than the floor elevation. The top of joints or top of perforations shall be protected with an approved filter membrane material. The pipe or tile shall be placed on not less than 2" of gravel or crushed stone, and shall be covered with not less than 6" of the same material.  Precaution must be taken to protect concrete from freezing.
	<ol> <li>It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.</li> <li>Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of ½ inch gypsum board or the equivalent applied to the garage means of ½ inch gypsum board or the equivalent applied to the garage side. (Chapter 4 Section 407.0 of the BOCA/1996)</li> </ol>
X	National Mechanical Code/1993).  7. Sound transmission control in residential building shall be done in accordance with Chapter 12 section 1214.0 of the city's
*	building code.  8. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42", except Use Group R which is 36". In occupancies in Use Group A, B, H-4, I-1, I-2 M and R and public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. (Handrails shall be a minimum of 34" but not more than 38". Use Group R-3 shall not be less than 30", but not more than 38".) Handrail grip size shall have a circular cross section with an outside diameter of at least 1 1/4" and not greater than 2".
*	9. Headroom in habitable space is a minimum of 7'6".
X	10. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 3/4" maximum rise. All other Use group minimum 11" tread. 7" maximum rise.
	The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6' 8") Every sleeping room below the fourth story in buildings of use Groups R and I-1 shall have at least one operable window or

exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension

- shall be 20 inches (508mm), and a minimum net clear opening of 5.7 sq. ft.
- 13. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units.
- All vertical openings shall be enclosed with construction having a fire rating of at lest one (1)hour, including fire doors with 14. self closer's. (Over 3 stories in height requirements for fire rating is two (2) hours.)
- The boiler shall be protected by enclosing with (1) hour fire-rated construction including fire doors and ceiling, or by 15. providing automatic extinguishment.
- **米**16. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 19, 920.3.2 (BOCA National Building Code/1996), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):
  - In the immediate vicinity of bedrooms
  - In all bedrooms
  - In each story within a dwelling unit, including basements

In addition to the required AC primary power source, required smoke detectors in occupancies in Use Groups R-2, R-3 and I-1 shall receive power from a battery when the AC primary power source is interrupted. (Interconnection is required)

- 17. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an
- 18. The Fire Alarm System shall be maintained to NFPA #72 Standard.
- 19. The Sprinkler System shall maintained to NFPA #13 Standard.
- 20. All exit signs, lights, and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023. & 1024. Of the City's building code. (The BOCA National Building Code/1996)
- 21. Section 25-135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
- 22. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification to the Division of Inspection Services.
- Ventilation shall meet the requirements of Chapter 12 Sections 1210. Of the City's Building Code. (crawl spaces & attics)
- <del>X</del> 24. All electrical, plumbing and HVAC permits must be obtained by a Master Licensed holders of their trade.
- All requirements must be met before a final Certificate of Occupancy is issued. <del>X-</del>25.
- **★**26. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code. (The BOCA National Building Code/1996).
- Ventilation of spaces within a building shall be done in accordance with the City's Mechanical Code (The BOCA National <del>X</del> 27. Mechanical Code/1993).
  - Please read and implement the attached Land Use-Zoning report requirements.
- STATE Subsurface wastemeter Disposal permit must be obtained before **\***29. be done in accordance with section 2305,16
- **₹**30.
- Glazing Shall be done in accordance with sections 240 X-31.
- glazing and SKylighTs Section 2404. X32.

Building Inspector

cc: Lt. McDougall, PFD Marge Schmuckal

# CITY OF PORTLAND, MAINE DEVELOPMENT REVIEW APPLICATION PLANNING DEPARTMENT PROCESSING FORM ADDENDUM

19980055	
LD Number	

Thaxter, Sidney	5/29/98		
Applicant	Application Date		
95 Deerfield Rd, Portland, ME 04101	Cushing Island		
Applicant's Mailing Address	Project Name/Description		
SAA	Ottawa Ave, Cushing Island		
Consultant/Agent	Address of Proposed Site		
773-6956/828-5553	106A-A-013		
Applicant or Agent Daytime Telephone, Fax	Assessor's Reference: Chart-Block-Lot		
DRC Conditions of App	roval		
Approved subject to Site Plan Review (Addendum) Conditions of Approval:			
All damage to sidewalk, curb, street, or public utilities shall be repaired to City of	f Portland standards prior to		
issuance of a Certificate of Occupancy.			
Two (2) City of Portland approved species and size trees must be planted on yo	our street frontage prior to		
issuance of a Certificate of Occupancy.	At max		
Your new street address is now Ottawa Avenue			
, the number must be displayed on the street frontage of your house prior to issuar	nce of a Certificate of Occupancy.		
The Development Review Coordinator (874-8300 ext.8722) must be notified five			
prior to date required for final site inspection. Please make allowances for complete			
determined to be incomplete or defective during the inspection. This is essential a			
be completed and approved by the Development Review Coordinator prior to issue			
Occupancy. Please schedule any property closing with these requirements in min-	d.		
Show all utility connections: water, sanitary, sewer, storm drain, electric, telepho	one, cable.		
A street opening permit(s) is required for your site. Please contact Carol Merritt	ay 874-8300, ext. 8828.		
(Only excavators licensed by the City of Portland are eligible.)			
The site contractor shall establish finish grades at the foundation, bulkhead and			
conformance with the first floor elevation (FFE) and sill elevation (SE) set by the b	ouilding contractor to provide		
for positive drainage away from entire footprint of building.			
A drainage plan shall be submitted to and approved by Development Review Co	oordinator showing first floor		
elevation (FFE), sill elevation (SE), finish street/curb elevation, lot grading, existing			
drainage patterns and paths, drainage swales, grades at or near abutting property	/ lines, erosion control devices		
and locations and outlets for drainage from the property.	the state of the s		
	The Development Review Coordinator reserves the right to require additional lot grading or other drainage		
improvements as necessary due to field conditions.			
Planning Conditions of A	Approvai		
Inspections Conditions of	f Approval		
•	· ·		
1. Separate permits shall be required for future decks, sheds, pool, and/or garage	j <del>e</del> .		

# CITY OF PORTLAND, MAINE PUBLIC NOTICE

To All Building Permit Applicants and/or Contractors:

Effective immediately all temporary erosion control measures as shown on submitted site plans or as made part of a conditional approval of a site plan shall be installed, maintained, and inspected for proper functioning. Erosion control measures include but are not limited to silt fencing hay bales, stone check dams, earthen berms, stone lined swales, riprap embankments, riprap inlet/outlets of any pipe channel or culvert, sodded or grass strips, hay mulch cover on exposed soils, jute matting or erosion control blanket/matting, geotextile grids or webbing, and any provision approved by the City Engineer or Development Review Coordinator to decrease erosion or sedimentation.

All temporary and permanent erosion control measures shall be in conformance with the Maine Erosion and Sediment Control Handbook for construction: Best Management Practices as published by Cumberland County SWCD and the Maine Department of Environmental Protection. Consistent failure to install, maintain, or construct in an acceptable manner will result in a stop work order on the building permit. All erosion control measures shall be established in proposed areas of disturbed soils resulting from construction activities prior to actual construction unless a specific deadline has been made a condition of approval or agreed to by a Public Works Engineer or the Development Review Coordinator.

Effective immediately any request for Certificate of Occupancy will be denied if the above measures have not been addressed or completed. Only under extreme conditions, due to weather, shall the omission of the erosion control standards be included on the conditions for a Certificate of Occupancy, otherwise the request for a Certificate will be refused.

The City of Portland Planning Department and Public Works Department consider Erosion and Sediment Control Planning to be an absolutely necessary initial construction activity that requires as much attention and enforcement as building construction. For the protection of sensitive waterbodies, undisturbed lands, neighboring properties, established vegetated areas, and municipal drainage systems please pay careful attention to erosion and sediment control measures and conform to the notes, details, and conditions of approval as noted on your approved site plan. These controls must be installed and maintained continuously throughout the construction period. The City may inspect the site at any time to ensure compliance, and violations could result in work stoppage orders as indicated above.

We appreciate your prompt compliance with these requirements.



### CITY OF PORTLAND Planning and Urban Development Department

#### MEMORANDUM

TO:

Joseph E. Gray, Jr., Director of Planning and Urban Development

Alexander Jaegerman, Chief Planner

FROM:

James Seymour, Acting Development Review Coordinator

DATE:

April 5, 1995

SUBJECT: Disclaimer Statement of Existing Poorly Drained Areas

It is the responsibility of the lot owner/homebuilder to assess drainage and provide for appropriate stormwater management design and engineering in an area which has evidence of poor hydrologic soil conditions, and/or a history of poor drainage, ponding, or soils saturation due to topography, fluctuation of seasonal ground water tables creating surface flooding, or as a result from rainfall events or snow/ice melts. The City of Portland is not responsible for resolving the drainage of land areas which could be described in any one of the above conditions.

The City of Portland Development Review Coordinator reviews lot grading for all single family homes to assure that field elevations will conform to the grades which exist at the abutting property line or to the grades which have been previously approved at the abutting property lines. The construction standards require that final foundation elevations be provided on site plans which are a minimum of 2 1/2 feet higher than street grades established at the frontage of the lot and provide positive drainage away from the entire foundation perimeter, including garage, and all basement accesses (ie. bulkheads, doorways and windows). As long as these standards are strictly enforced, most water problems on single family lots will be avoided. However, in locations with clear evidence of hydric soils, the following note shall be placed on all approved site plans:

> "The City of Portland Development Review Coordinator has reviewed and approved this plan. The lot is located in an areas that is subject to seasonal conditions of saturation by surface or groundwater. Approval of this plan does not constitute a guarantee that no water problems will be experienced by the homeowners in this vicinity. Homeowners are advised to exercise care and diligence to ensure that their home and yard is adequately constructed and graded for localized drainage conditions."

Location of Construction: Cushing Island Ottawa Ave	Owner: Sidnery T	nazter	Phone:	773-6956	Permit No: <b>980</b> (	59
Owner Address: 95 Deerfield Prld, ME 04101	Lessee/Buyer's Name:	Phone:	Busines	ssName:	PERMIT ISSU	JED
Contractor Name: The Thaxter Co.	Address: 828-5553	Phone	»:		Pern it Issued: <b>JUL - 3</b>  99	8
Past Use:	Proposed Use:	COST OF WORL \$ 140,000		<b>PERMIT FEE: 720.60</b>		
Vecant Land	l-fata	FIRE DEPT.   Signature:	Approved Denied	INSPECTION: Use Group: 4-3 Type: 5-6 Signature: Holder	CITY OF PORTI	
Proposed Project Description:		PEDESTRIAN A Action:	Approved Approved	ES DISTRICT (PAID.) with Conditions:	Special Zone or Remarks	/ <i>30/9</i> views:
Construct Single Family Dwelli Permit Taken By:	Date Applied For:	Signature:	Denied	Date:	□ Wetland □ Flood Zone □ Subdivision □ Flood Elsite Plan maj □ mind	616 417
<ol> <li>This permit application does not preclude the angular description.</li> <li>Building permits do not include plumbing, set</li> <li>Building permits are void if work is not started tion may invalidate a building permit and sto</li> </ol>	ptic or electrical work.  I within six (6) months of the date o	f issuance. False informa-			Zoning Appea    Variance     Miscellaneous     Conditional Use     Interpretation     Approved     Denied    Historic Preserva     Not in District or Lan     Does Not Require Resident     Requires Review	<b>tion</b> ndmark
I hereby certify that I am the owner of record of the authorized by the owner to make this application a if a permit for work described in the application is areas covered by such permit at any reasonable ho	s his authorized agent and I agree t issued, I certify that the code officia	o conform to all applicable al's authorized representation	laws of the ve shall has permit	is jurisdiction. In addition, we the authority to enter all	Action:  Approved Approved with Condi Denied  Date:	tions
RESPONSIBLE PERSON IN CHARGE OF WORK	K, TITLE			PHONE:	CEO DISTRICT	

### BUILDING PERMIT REPORT

DATE: 30 June 98 ADDRESS: Cushing Island OTTown AVE (106A-A-013)
REASON FOR PERMIT: To Construct a Single family dwelling
BUILDING OWNER: Signey ThaxTer
contractor: The Thaxter Co.
PERMIT APPLICANT:
use group R-3 boca 1996 construction type 5B

#### CONDITION(S) OF APPROVAL

This Permit is being issued with the understanding that the following conditions are met:

Approved with the following conditions:  $\frac{1}{2}$ ,  $\frac{$ 

- This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
- **≭**1. **⊀**2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection)
- ¥ 2.5 Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. The drain shall extend a minimum of 12 inches beyond the outside edge of the footing. The thickness shall be such that the bottom of the drain is not higher than the bottom of the base under the floor, and that the top of the drain is not less than 6 inches above the top of the footing. The top of the drain shall be covered with an approved filter membrane material. Where a drain tile or perforated pipe is used, the invert of the pipe or tile shall not be higher than the floor elevation. The top of joints or top of perforations shall be protected with an approved filter membrane material. The pipe or tile shall be placed on not less than 2" of gravel or crushed stone, and shall be covered with not less than 6" of the same material.
  - Precaution must be taken to protect concrete from freezing. 3.
  - It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is 4. done to verify that the proper setbacks are maintained.
  - 5. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of ½ inch gypsum board or the equivalent applied to the garage means of ½ inch gypsum board or the equivalent applied to the garage side. (Chapter 4 Section 407.0 of the BOCA/1996)
- All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA National Mechanical Code/1993).
  - Sound transmission control in residential building shall be done in accordance with Chapter 12 section 1214.0 of the city's building code.
- **X**8. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42", except Use Group R which is 36". In occupancies in Use Group A, B, H-4, I-1, I-2 M and R and public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. (Handrails shall be a minimum of 34" but not more than 38". Use Group R-3 shall not be less than 30", but not more than 38".) Handrail grip size shall have a circular cross section with an outside diameter of at least 1 1/4" and not greater than 2".
- Headroom in habitable space is a minimum of 7'6".
- Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 3/4" maximum rise. All other Use group minimum 11" tread. 7" maximum rise.
- The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6'8")
- X12. Every sleeping room below the fourth story in buildings of use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension

- shall be 20 inches (508mm), and a minimum net clear opening of 5.7 sq. ft.
- 13. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units.
- All vertical openings shall be enclosed with construction having a fire rating of at lest one (1)hour, including fire doors with 14. self closer's. (Over 3 stories in height requirements for fire rating is two (2) hours.)
- The boiler shall be protected by enclosing with (1) hour fire-rated construction including fire doors and ceiling, or by 15. providing automatic extinguishment.
- **米**16. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 19, 920.3.2 (BOCA National Building Code/1996), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):
  - In the immediate vicinity of bedrooms
  - In all bedrooms
  - In each story within a dwelling unit, including basements

In addition to the required AC primary power source, required smoke detectors in occupancies in Use Groups R-2, R-3 and I-1 shall receive power from a battery when the AC primary power source is interrupted. (Interconnection is required)

- 17. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an
- 18. The Fire Alarm System shall be maintained to NFPA #72 Standard.
- 19. The Sprinkler System shall maintained to NFPA #13 Standard.
- 20. All exit signs, lights, and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023. & 1024. Of the City's building code. (The BOCA National Building Code/1996)
- 21. Section 25-135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
- 22. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification to the Division of Inspection Services.
- Ventilation shall meet the requirements of Chapter 12 Sections 1210. Of the City's Building Code. (crawl spaces & attics)
- <del>X</del> 24. All electrical, plumbing and HVAC permits must be obtained by a Master Licensed holders of their trade.
- All requirements must be met before a final Certificate of Occupancy is issued. <del>X-</del>25.
- **★**26. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code. (The BOCA National Building Code/1996).
- Ventilation of spaces within a building shall be done in accordance with the City's Mechanical Code (The BOCA National <del>X</del> 27. Mechanical Code/1993).
  - Please read and implement the attached Land Use-Zoning report requirements.
- STATE Subsurface wastemeter Disposal permit must be obtained before **\***29. be done in accordance with section 2305,16
- **₹**30.
- Glazing Shall be done in accordance with sections 240 X-31.
- glazing and SKylighTs Section 2404. X32.

Building Inspector

cc: Lt. McDougall, PFD Marge Schmuckal

# CITY OF PORTLAND, MAINE DEVELOPMENT REVIEW APPLICATION PLANNING DEPARTMENT PROCESSING FORM ADDENDUM

19980055	
I D Number	

Thaxter, Sidney		5/29/98
Applicant		Application Date
95 Deerfield Rd, Portland, ME 04101		Cushing Island
Applicant's Mailing Address		Project Name/Description
SAA	Ottawa Ave, Cushing Island	
Consultant/Agent	Address of Proposed Site	
773-6956/828-5553	106A-A-013	
Applicant or Agent Daytime Telephone, Fax	Assessor's Reference: Chart-Bl	ock-Lat
DRC Conditions of App	proval	
Approved subject to Site Plan Review (Addendum) Conditions of Approval:		
All damage to sidewalk, curb, street, or public utilities shall be repaired to City of	f Portland standards prior to	
issuance of a Certificate of Occupancy.		
Two (2) City of Portland approved species and size trees must be planted on yo	our street frontage prior to	
issuance of a Certificate of Occupancy.		
Your new street address is now Ottawa Avenue		
, the number must be displayed on the street frontage of your house prior to issua	nce of a Certificate of Occupancy.	
The Development Review Coordinator (874-8300 ext.8722) must be notified five	e (5) working days	
prior to date required for final site inspection. Please make allowances for comple	tion of site plan requirements	
determined to be incomplete or defective during the inspection. This is essential a	s all site plan requirements must	
be completed and approved by the Development Review Coordinator prior to issue	ance of a Certificate of	
Occupancy. Please schedule any property closing with these requirements in min	d.	
Show all utility connections: water, sanitary, sewer, storm drain, electric, teleph	one, cable.	
A street opening permit(s) is required for your site. Please contact Carol Merritt	ay 874-8300, ext. 8828.	
(Only excavators licensed by the City of Portland are eligible.)		
The site contractor shall establish finish grades at the foundation, bulkhead and basement windows to be in		
conformance with the first floor elevation (FFE) and sill elevation (SE) set by the building contractor to provide		
for positive drainage away from entire footprint of building.		
A drainage plan shall be submitted to and approved by Development Review C		
elevation (FFE), sill elevation (SE), finish street/curb elevation, lot grading, existin		
drainage patterns and paths, drainage swales, grades at or near abutting property	/ lines, erosion control devices	
and locations and outlets for drainage from the property.		3
The Development Review Coordinator reserves the right to require additional lo	t grading or other drainage	,
improvements as necessary due to field conditions.		
Planning Conditions of A	Approval	
Inspections Conditions of	f Annroval	

1. Separate permits shall be required for future decks, sheds, pool, and/or garage.



### CITY OF PORTLAND Planning and Urban Development Department

#### MEMORANDUM

TO:

Joseph E. Gray, Jr., Director of Planning and Urban Development Alexander Jaegerman, Chief Planner

FROM:

James Seymour, Acting Development Review Coordinator

DATE:

April 5, 1995

SUBJECT: Disclaimer Statement of Existing Poorly Drained Areas

It is the responsibility of the lot owner/homebuilder to assess drainage and provide for appropriate stormwater management design and engineering in an area which has evidence of poor hydrologic soil conditions, and/or a history of poor drainage, ponding, or soils saturation due to topography, fluctuation of seasonal ground water tables creating surface flooding, or as a result from rainfall events or snow/ice melts. The City of Portland is not responsible for resolving the drainage of land areas which could be described in any one of the above conditions.

The City of Portland Development Review Coordinator reviews lot grading for all single family homes to assure that field elevations will conform to the grades which exist at the abutting property line or to the grades which have been previously approved at the abutting property lines. The construction standards require that final foundation elevations be provided on site plans which are a minimum of 2 1/2 feet higher than street grades established at the frontage of the lot and provide positive drainage away from the entire foundation perimeter, including garage, and all basement accesses (ie. bulkheads, doorways and windows). As long as these standards are strictly enforced, most water problems on single family lots will be avoided. However, in locations with clear evidence of hydric soils, the following note shall be placed on all approved site plans:

> "The City of Portland Development Review Coordinator has reviewed and approved this plan. The lot is located in an areas that is subject to seasonal conditions of saturation by surface or groundwater. Approval of this plan does not constitute a guarantee that no water problems will be experienced by the homeowners in this vicinity. Homeowners are advised to exercise care and diligence to ensure that their home and yard is adequately constructed and graded for localized drainage conditions."

# THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE PERMIT IS ISSUED

### Building or Use Permit Application Detached Single Family Dwelling

In the interest of processing your application in the quickest possible manner, please complete the Information below for a Building or Use Permit.

NOTE\*\*If you or the property owner owes real estate or personal property taxes or user charges on any property within the

City, payment arrangements n	nust be made before permits of any kind a	are accepted.
Location/Address of Construction:	Island Portland	Ottowa Ave
Total Square Footage of Proposed Structure	Square Footage of Lot	rn t
Tax Assessor's Chart, Block & Lot Number	Owner:	Telephone#:
Chart# ///(0) Block# Y Lot# 013	Sidney StF ThAXE	2 (1) 473-6956
Owner's Address:	Lessee/Buyer's Name (If Applicable)	Cost Of Work:
95 Deersield. 04101		\$ 140.1771 +
Proposed Project Description:(Please be as specific as possible)		
Single Samiley	nme. mm	Seteplan
Contractor's Name, Address & Telephone	V) 010 Con Cod Co	9828-5555
Senarate permits are required fr	or Internal & External Plumbing, HVAC and Electrical	
•All construction must be conducted in complian		
-	ed in compliance with the State of Maine	· ·
•All Electrical Installation must comply wit	th the 1996 National Electrical Code as an	nended by Section 6-Art III.
•HVAC(Heating, Ventilation and Air Conditi	oning) installation must comply with the	1993 BOCA Mechanical Code.
You must Include the following with you application:		- 11
2) A Copy	f Your Deed or Purchase and Sale Agreement of your Construction Contract, if available 3) A Plot Plan (Sample Attached)	M.M.
A "minor/minor" site plan review is required prior to		ared and sealed by a registered land
surveyor (2 copies are required). A complete plot pl		, 5
	sting buildings (if any), the proposed structur	e and the distance from the actual
property lines. Structures include decks por	ches, a bow windows cantilever sections and	roof overhangs, as well as, sheds,
pools, garages and any other accessory struc	ctures. DEPT. OF BUILDING INSPE	GION
• Scale and North arrow; Zoning District & S		` 4 170
• First Floor sill elevation (based on mean se		11 10
<ul> <li>Location and dimensions of parking areas a</li> </ul>	nd driveways; MAY 2 9 1998 In the street and the proposed utilities serving	10 mil 50
<ul> <li>Location and size of both existing utilities in</li> </ul>	n the street and the proposed utilities serving	the Building; 1900
• Location of areas on the site that will be use	ed to dispose of surface water.	109
Existing and proposed grade contours 4	Building Plans (Sample Attached)	
A complete set of construction drawings showing all of the following	g elements of construction:	
	g porches, decks w/ railings, and accessory s	tructures)
• Floor Plans & Elevations		
<ul> <li>Window and door schedules</li> </ul>		
<ul> <li>Foundation plans with required drainage an</li> </ul>		
	l drawings for any specialized equipment suc	
equipment, HVAC equipment (air handling	g) or other types of work that may require spe	ecial review must be included.

I hereby certify that I am the Owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Certification

Signature of applicant:

Date: 5/29/9 C

Site Review Fee: \$150.00/Building Permit Fee: \$25.00 for the 1st \$1000.cost plus \$5.00 per \$1,000.00 construction cost thereafter.

# CITY OF PORTLAND, MAINE DEVELOPMENT REVIEW APPLICATION PLANNING DEPARTMENT PROCESSING FORM

19980055	
D Number	

Thaxter, Sidney			5/29/98
Applicant			Application Date
95 Deerfield Rd, Portland, ME 04101			Cushing Island
Applicant's Mailing Address			Project Name/Description
SAA	7-20-0	Ottawa Ave, Cushing Island	
Consultant/Agent		Address of Proposed Site	
773-6956/828-5553		106A-A-013	ale I at
Applicant or Agent Daytime Telephone, Fax		Assessor's Reference: Chart-Blo	CK-LOT
Proposed Development (check all that apply  Office Retail Manufactu		ilding Addition	e 🛛 Residential (specify)
2000 Sq Ft	60,000 Sq Ft		I-R1
Proposed Building square Feet or # of Units	Acreage of S	ite	Zoning
Check Review Required:			
⊠ Site Plan	Subdivision	PAD Review	14-403 Streets Review
(major/minor)	# of lots		<b>_</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Flood Hazard	Shoreland	☐ HistoricPreservation	☐ DEP Local Certification
Zoning Conditional Use (ZBA/PB)	Zoning Variance		Other
Fees Paid: Site Plan \$50.0	0 Subdivision	Engineer Review \$1	00.00 Date: 5/29/98
Inspections Approval Stat	us:	Reviewer Marge Schmuckal	
☐ Approved	Approved w/Conditions	☐ Denied	
	see attached		
Annual Data Claulos	Approval Expiration	Extension to	Additional Sheets
Approval Date 6/30/98	Approval Expiration	EXCENSION to	Attached
Condition Compliance			,
	signature da	te	
Performance Guarantee [	Required*	☐ Not Required	
* No building permit may be issued until a p	performance guarantee has been sub	mitted as indicated below	
D Perfermence Cuerentee Accepted			
Performance Guarantee Accepted	date	amount	expiration date
	33.3		·
Inspection Fee Paid			
	date	amount	
☐ Building Permit Issued			
	date		
Performance Guarantee Reduced			
	date	remaining balance	signature
Temporary Certificate of Occupancy		Conditions (See Attached)	
Temporary Certificate of Occupancy	date	Conditions (cos / massiss)	
_	date		
Final Inspection			
O-4151	date	signature	
Certificate Of Occupancy		signature	
	date	signature	
☐ Certificate Of Occupancy ☐ Performance Guarantee Released		signature signature	
	date		
Performance Guarantee Released	date		expiration date

# CITY OF PORTLAND, MAINE DEVELOPMENT REVIEW APPLICATION PLANNING DEPARTMENT PROCESSING FORM

19980055		30055	
١.	D.	Number	

Thaxter, Sidney			5/29/98
Applicant			Application Date
95 Deerfield Rd, Portland, ME 04101			Cushing Island
Applicant's Mailing Address		Officer Assa Constitute Island	Project Name/Description
SAA Consultant/Agent		Ottawa Ave, Cushing Island Address of Proposed Site	
773-6956/828-5553		106A-A-013	
Applicant or Agent Daytime Telephone,	Fax	Assessor's Reference: Chart-l	Block-Lot
Proposed Development (check all that a	Processed	☐ Building Addition ☐ Change Of	Use Residential
Office Retail Manuf	facturing		ner (specify)
Proposed Building square Feet or # of U	Jnits Acr	eage of Site	Zoning
Check Review Required:			
Site Plan (major/minor)	Subdivision # of lots	PAD Review	☐ 14-403 Streets Review
☐ Flood Hazard	Shoreland	☐ HistoricPreservation	☐ DEP Local Certification
Zoning Conditional Use (ZBA/PB)	Zoning Variance		Other
Fees Paid: Site Plan\$	50.00 Subdivision	Engineer Review \$	100.00 Date: 5/29/98
DRC Approval Status:		Reviewer Jim Wendel	
Approved	Approved w/Conditions see attached	S Denied	
Approval Date6/23/98	Approval Expiration	6/23/99 Extension to	Additional Sheets
	Jim Wendel	6/23/98	Attached
	signature	date	
Performance Guarantee	Required*	☐ Not Required	
* No building permit may be issued unti	il a performance guarantee has l	been submitted as indicated below	
Performance Guarantee Accepted			
Ferformance Guarantee Accepted	date	amount	expiration date
D In office E Data		4	oxpiration date
Inspection Fee Paid	date	amount	
	date	amount	
Building Permit	4.1.		
	date		
Performance Guarantee Reduced			
	date	remaining balance	signature
☐ Temporary Certificate Of Occupand	су	Conditions (See Attached	)
	date		
☐ Final Inspection			
	date	signature	
Certificate Of Occupancy		Ç	
	date		
Performance Guarantee Released			
	date	signature	
Defect Guarantee Submitted	1 11 1 1 1		
Defect Guarantee Released	submitted date	amount	expiration date
Delect Guarantee Released	date	signature	

	Applicant: Sidney Thaxter Date: 6/30/98  Address: Ottowa Ave, Cushing ISC C-B-L: 106A-A-13
	Address: Ottowa Ave, Cushing ISt C-B-L: 106A-A-13
	CHECK-LIST AGAINST ZONING ORDINANCE
	Date - New Dwelly
	Zone Location - IR-1
	Interior or gorner lot- Proposed Use/Work - to Construct 40' x 45' bldg - No gATA-8
HE	Proposed Use Work - 10 Co St. Color Servage Disposal - ? SAm to Chock Servage Disposal - ? SAm to Chock of 2/1/35/8how.  Lot Street Frontage - 100/1 Cely - 20/4 Show.
	Lot Street Frontage - 100 ( )
	Front Yard - 70 129 - 70 1 3
	Rear Yard - 30' V - 200' + 8how
	Side Yard - 201 reg - 201 + 8hm
	Projections - Deck Not Shown on Slot plan Width of Lot - 100' reg - 100't Shown
	Width of Lot - 100 Fig - 10Q+ 8how
	Height - 2 Story (35 max)
	Lot Area - 60,000 - (a/a /a A 4 Sham)
	Lot Coverage/Impervious Surface - 20% - (not close)
	Area per Family - 60,000 A
	Off-street Parking - 2 reg - 25hov
	Loading Bays - N
	Site Plan - must hust Shoreland Zoning/Stream Protection - PAT And Swift 250, but Shoreland Zoning/Stream Protection - PAT And Swift Swell
	Shoreland Zoning/Stream Protection - PAT And Swy RACED is well Flood Plains - Zne C bACK From 75' Set bACK PANEL 17

# CITY OF PORTLAND, MAINE PUBLIC NOTICE

To All Building Permit Applicants and/or Contractors:

Effective immediately all temporary erosion control measures as shown on submitted site plans or as made part of a conditional approval of a site plan shall be installed, maintained, and inspected for proper functioning. Erosion control measures include but are not limited to silt fencing hay bales, stone check dams, earthen berms, stone lined swales, riprap embankments, riprap inlet/outlets of any pipe channel or culvert, sodded or grass strips, hay mulch cover on exposed soils, jute matting or erosion control blanket/matting, geotextile grids or webbing, and any provision approved by the City Engineer or Development Review Coordinator to decrease erosion or sedimentation.

All temporary and permanent erosion control measures shall be in conformance with the Maine Erosion and Sediment Control Handbook for construction: Best Management Practices as published by Cumberland County SWCD and the Maine Department of Environmental Protection. Consistent failure to install, maintain, or construct in an acceptable manner will result in a stop work order on the building permit. All erosion control measures shall be established in proposed areas of disturbed soils resulting from construction activities prior to actual construction unless a specific deadline has been made a condition of approval or agreed to by a Public Works Engineer or the Development Review Coordinator.

Effective immediately any request for Certificate of Occupancy will be denied if the above measures have not been addressed or completed. Only under extreme conditions, due to weather, shall the omission of the erosion control standards be included on the conditions for a Certificate of Occupancy, otherwise the request for a Certificate will be refused.

The City of Portland Planning Department and Public Works Department consider Erosion and Sediment Control Planning to be an absolutely necessary initial construction activity that requires as much attention and enforcement as building construction. For the protection of sensitive waterbodies, undisturbed lands, neighboring properties, established vegetated areas, and municipal drainage systems please pay careful attention to erosion and sediment control measures and conform to the notes, details, and conditions of approval as noted on your approved site plan. These controls must be installed and maintained continuously throughout the construction period. The City may inspect the site at any time to ensure compliance, and violations could result in work stoppage orders as indicated above.

We appreciate your prompt compliance with these requirements.

### CITY OF PORTLAND, ME BOCA 1996 Plan Review Record One and Two Family Dwelling

Valuatio	n: 4/40,000 Plan Review #		
Fee:	720.00 Date: 30 June 98		
	Location: OTTawa Ave. Cushing Is CBL: 166A-A-613	3	
Building	Description: Single family dwelling		
	d by: Sam Noffses		
	ccupancy: R-3 Type of Construction: 5B		
*NR: No	t Required NA: Not Applicable SR: See Report X: OK per	plan	
	Correction List	Teresconding to the second sec	
NO:	Description	Code Section	
1,	All site Plan Requirements MUST be completed	111.4	
	before a Certificate of Occupancy can or		
	will be issued		
2.	The ConTractor must follow The approved Fan		
	To The Letter- Using The materials and		
	fastens as specified by The design Engineer		
3,	Cutting Notching and horing shall done in	2305.3 2305.5.1	
	accordance with sections	2303.5,1	
4	Bridging	2305.16	
5	Chass and Chazing Section 2405.	Chapter 24	
6.	Stoped gluzing and Skylights	2404	
		-/ '	

### Foundations (Chapter 18)

Wood Foundation (1808)

NA	_ Design _ Installation
	Footings (1807.0)
NA 256 6 26"	Depth below (outside) grade 4' minimum; but below frost line except for insulated footings. Insulated footing provided Soil bearing value (table 1804.3) Footing width Concrete footing (1810.0) .3.1, 3.2
See pla	Foundation Walls  Engineered Piles designed by Jospeph H. Leasure 624.  Professional Engineer  Minimum thickness Tables 1812.3.2.(1) & 1812.3.2 (2)  Water proofing and damp proofing Section 1813  Sill plate (2305.17)  Anchorage bolting in concrete (2305.17)  Columns (1912)  Crawl space (1210.2) Ventilation  Crawl opening size (1210.2.1)  potabe. with (1) #5 bar @ Canter hooked into footing.
2X12 012	Floors (Chapter 16-23)  Joists - Non sleeping area LL40PSF (Table - 1606)  Joists - Sleeping area LL30PSF (Table - 1606)
1660	Grade Spacing Span Girder 4" bearing 2305 ee Englaeered PLans.

### Floors (contd.)

0 2	Bearing (11/2" minimum on wood or steel 3" on masonry) and lapped (3")
Sp	Bridging (2305.16)
	Boring and notching (2305.5.1)
	Cutting and notching (2305.3.1)
	Fastening table (2305.2)
	Floor trusses (AFPANDS Chapter 35)
Section	Draft stopping (721.7)
-	Framing of openings (2305.11) (2305.12)
	Flooring - (2304.4) 1" solid - 1/2" particle board
_/V/A	Concrete floors (1905) 3 1/2" 6 mil polyethylene vapor retarder
	·
	Wall Construction (Chapter 2300)
	wan Construction (Chapter 2500)
	Design (1609) wind loads
	Load requirements
	Grade
54	
246	Fastening schedule (Table 2305.2)
JA.	Wall framing (2305.4.1)
	Double top plate (2305.4.2)
	Bottom plates: (2305.4.3)
	Notching and boring: (2305.4.4) studs
	Non load bearing walls (2305.5)
	Notching and boring (2305.5.1)
	Wind bracing (2305.7)
	Wall bracing required (2305.8.1)
	Stud walls (2305.8.3)
	Sheathing installation (2305.8.4)
	Minimum thickness of wall sheathing (Table 2305.13)
NIA	Metal construction
1. [1]	
, , ,,	Masonry construction (Chapter 21)
	Exterior wall covering (Chapter 14)
	Performance requirements (1403)
	Materials (1404)
NO	Veneers (1405)
	Interior finishes (Chapter 8)
_	

Roof-Ceiling Construction (Chapter 23)
<u>OXIX</u>   Roof rafters - Design (2305.15) spans   <u>IIx</u>   Roof decking ans sheathing (2305.15.1) 5/8" boards and (2307.3) (Table 2307.3.1(2)   <u>NA</u>   Roof trusses (2313.3.1)
Roof Coverings (Chapter 15)
Approved materials (1404.1)  Performance requirement (1505)  Fire classification (1506)  Material and installation requirements (1507)  Roof structures (1510.0)  Machine Type of covering (1507)
Chimneys and Fireplaces BOCA Mechanical/1993
Masonry (1206.0)  Factory - built (1205.0)  Masonry fireplaces (1404) (GAS) AS per Appliance req.  Factory - built fireplace (1403)
Mechanical 1993 BOCA Mechanical Code
· · · · · · · · · · · · · · · · · · ·
<del></del>

## State Plumbing Code

517	ate ridinoling Code	
PAIVATE Subsurface	L	
***************************************		
-		
**CONTRACTOR CONTRACTOR CONTRACTO		
Lo	ad Design Criteria	
Floor live load sleeping Floor live load non sleeping Roof live load Roof snow load Seismic Zone Weathering area Frost line depth	30 PSF 40 PSF 42 PSF. 46 PSF - 2 - S - 4' MIN	OK See Plan Engineered OK W
and depth	1 1VIII 4 00	
Gla	ezing (Chapter 24)	
Labeling (2402.1)  Louvered window or jalousies (2  Human impact loads (2405.0)  Specific hazardous locations (240  Sloped glazing and skylights (240)  Sloped glazing and skylights (240)	•	
Private	e Garages (Chapter 4)	
General (407)  Beneath rooms (407.3)  Attached to rooms (407.4)  Door sills (407.5)  Means of egress (407.8)  Floor surface (407.9)		

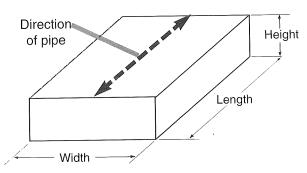
### Egress (Chapter 10)

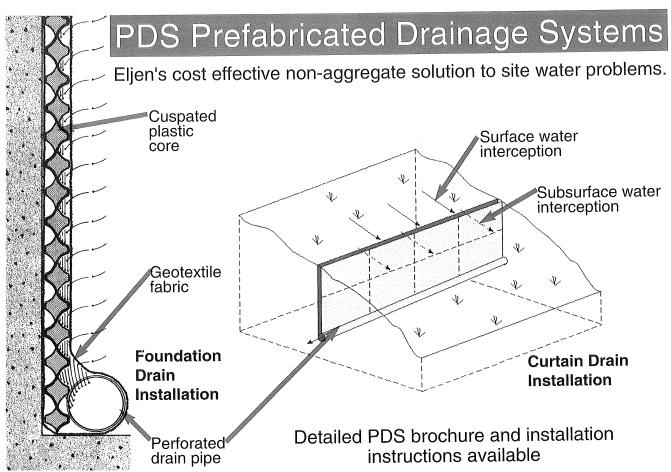
One exit from dwelling unit (1010.2)	
Sleeping room window (1010.4)	
<u>o⊬</u> EXIT DOOR (1017.3) 32" W 80" H	
Landings (1014.3.2) stairway	
<u>N</u>	
Stairways (1014.3) 36" W	
<u> </u>	
Riser (1014.6) 7 3/4" max.	
Solid riser (1014.6.1)	
Winders (1014.6.3)	
Spiral and Circular (1014.6.4)	
Sh Handrail grip size (1022.2.4) 1 1/4" to 2"	
51k. Guards (1012.0) 36" min.	
<del></del>	
	<b>20 2 2</b> 0
Smoke Detectors (9	20.3.2)
SR Location and interconnection	
514. Power source	
•	

Dwelling Unit Separation
Table 602

### In-Drain™ unit specifications

Type	Length	Width	Height	Wt.
Α	3'	2'	7"	11 lbs
В	4'	3'	7"	22 lbs
Half B	2'	3'	7"	11 lbs





### Elien Corporation

15 Westwood Rd., Storrs, CT., 06268 203-429-9486 • 800-444-1359 Fax 203-487-1124

Patent nos. 4,465,594 and 4,880,333

Distributed By:

### Construction

Consultants, Inc. P.O. Box J Livermore Falls, ME 04254 207-897-4072

#### LIMITED WARRANTY

- Each In-Drain™ unit is warranted to the original purchaser against defects in mate als and workmanship for one year from the date of manufacture when installed in accordance with manufacturer's instructions. Eljen Corp. must be notified within fifteen(15) days of the appearance of any defect during this period. Eljen Corp. will supply a replacement unit. Eljen Corp.'s liability specifically excludes the cost of and/or installation of the units.
- 2. The warranty does not extend to incidental, consequential, special or indirect dam age. Specifically excluded from warranty coverage are: damage due to ordinary wear and tear, alteration, abuse or misuse, subjection to stresses or effluent loading greater than those prescribed in the design and installation instructions, the placement of improper materials by buyer into buyer's system, any event not caused by or under the control of Eljen Corp. In no event will Eljen Corp. be responsible for loss or damage to the buyer, the units, or any 3rd party resulting from its installation or shipment.
- 3. Buyer shall be solely responsible for insuring that installation of the system is cor pleted in accordance with all applicable laws, codes, rules and regulations.
- 4.No warranties or representations at any time made by any representative of Eljer Corp. shall vary or expand the provisions hereof. No warranty applies to any party other than the original purchaser

# **EXTENDED WARRANTY**

Eljen offers a 10 year warranty for 1 and 2 family residential In-Drain systems Conditions of system design, installation and maintenance apply. Please refer to detailed warranty available from Eljen or an authorized representative

# ${\it Elien^{ au_{\!M}}}$ ... Products for a clean, healthy environment

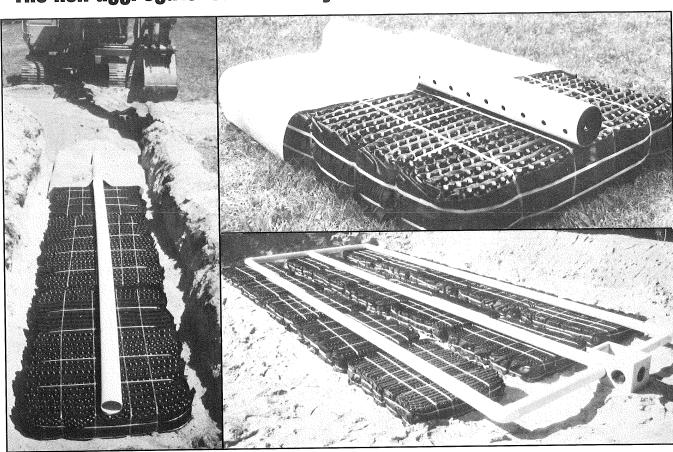
© 1994, Eljen Corp. #C94



**ENVIRONMENTAL PRODUCTS SINCE 1979** 

# IN-DRAIN™ SYSTEM

# The non-aggregate leach field system with new Bio-Matt™ Fabric.

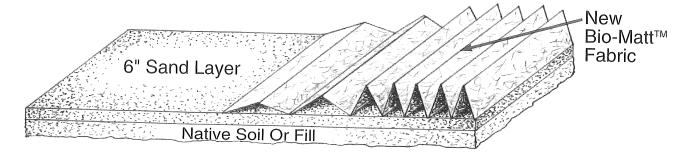


- In-Drain system pretreats effluent with a two-stage biomat
- System maintains greater long term leaching capacity
- Requires much smaller area than conventional systems
- Lower site impact and less offsite fill required
- Ends worries about dirty stone and stone dust
- Made with lightweight recycled materials
- Excellent documented long term track record
- The leach field system with a 10 year warranty

Unique Features of the In-Drain system

# Only the *Eljen* In-Drain™ System "Pretreats" effluent with a two-stage biomat.

# Here's how it works...



- Conventional Systems have a single biomat forming at the soil interface.
- In-Drains™ offer 2 biomat layers... 1. Primary surface on fabric
  - 2. Secondary at 6" sand layer.

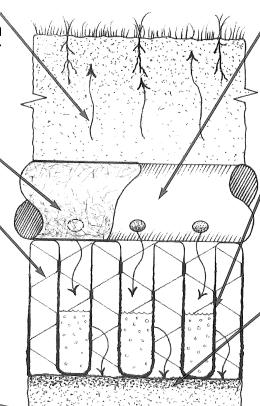
Porous top of In-Drains allows evapotranspiration and oxygen exchange for better effluent treatment.

Antisiltation fabric \ keeps fines out of In-Drains.

Cuspated plastic core provides separation between lavers of Bio-Matt<sup>™</sup> fabric. Maintains unit structural integrity and aids in oxvgen transfer. Increases treatment surface area & effluent storage capacity.

Pretreated effluent reduces potential for ground water pollution.

Native soil or fill



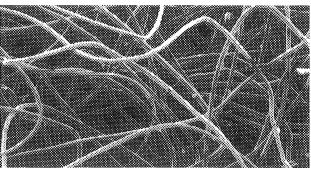
Perforated pipe distributes effluent to In-Drains™. Pipe is secured to In-Drains with preformed metal clamps.

Primary biomat laver forms on Bio-Matt™ fabric. Up to 10 ft<sup>2</sup> of fabric provided for every ft<sup>2</sup> of soil interface.

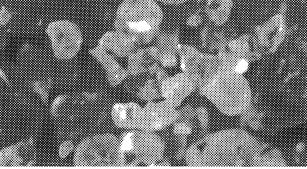
Secondary biomat layer forms at sand layer. Long term acceptance rate of this biomat layer is 3 to 10 times that of conventional systems.

6" Concrete sand laver

# Compare new Bio-Matt<sup>™</sup> fabric vs. soil interface



Nonwoven fabric-50x magnification



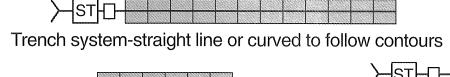
Concrete sand-50x magnification

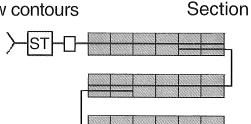
Recent studies<sup>†</sup> have shown that the hydraulic conductivity ratio (HCR) of nonwoven fabric has a stable long term permeability in contact with sand. Bio-Matt™ fabric in standard In-Drains offers a comparable environment to soil for biomat growth and presents no masking effect on infiltration capacity. Many years of field experience confirm the long term acceptance rates (LTAR) used in sizing In-Drain leach field systems.

<sup>†</sup> 1989 study by Geoservices Inc., Norcross, GA. Fabric photo courtesy Amoco Fabrics & Fibers Co. Concrete sand photo courtesy GRI/Drexel

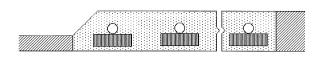
# Flexibility of installation

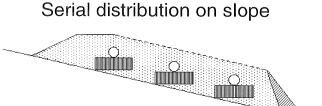
- Mound or in-ground installations
  Trench or cluster (bed) layouts
- Level or sloped sites
- Lightweight preassembled unitsNo stone/gravel cleanup
- D-Box or serial distribution





Mound or in-ground cluster





Detailed installation guidelines available for all types of systems