#### DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# **CITY OF PORTLAND**



# **BUILDING PERMIT**

This is to certify that NICHOLAS BURNETT

Located At 26 KNICKERBOCKER LANE (PEAKS ISLAND)

Job ID: 2011-07-1606-SUBSRF

CBL: 092 - - F - 052 - 001 - - - - -

has permission to install a subsurface wastewater disposal system.

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

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED. A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

07/22/2011

**Fire Prevention Officer** 

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

### **BUILDING PERMIT INSPECTION PROCEDURES**

### Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 24 months. If the project is not started or ceases for 24 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.
- 1. Septic field and extension inspection for bottom preparation/ scarification to verify removal of vegetation, established transitional horizon and erosion and sedimentation control measures.
- 2. Backfill inspection of septic field for approved materials, stabilization, slopes and extensions.
- 3. Exposed septic field installation and tank location inspection to check elevations, dimensions, piping, plumbing station and system design prior to covering.

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



Department of Health and Human Services Maine Center for Disease Control and Prevention 286 Water Street # 11 State House Station Augusta, Maine 04333-0011 Tel: (207) 287-5672

Fax: (207) 287-4172; TTY: 1-800-606-0215

### SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200 Form) for any subsurface wastewater disposal system which requires a variance to provisions of the Subsurface Wastewater Disposal Rules. The Local Plumbing Inspector must not issue a permit for the installation of a subsurface wastewater disposal system requiring a variance from the Department of Health and Human Services until approval has been received from the Department.

GENERAL INFORMATION	Tow	n of Portland (Peaks Isla	and)	
Property Owner's Name:	Nicholas Burnett	Tel. No.		-
System's Location:	60 Knickerbocker Lane (Map 92, Sec. F	, Lots 50, 51 & 52)		_
Property Owner's Address.	P.O. Box 7693, Portland, Me.	Zip Code _	04106	·
e-mail address:				
	isal system design for the subject property osal Rules. This variance requires ■ loca			system variance to
SPECIFIC VARIANCE REQUES	TED (To be filled in by Site Evaluator. Use	e additional sheets if needed.)	SECTION OF R	ULE
1. To allow disposal area to be	installed 14' from dwelling structure		8	
	nsion to contain fill on property		8	
3.				
SITE EVALUATOR				
The Evaluator shall list the specif	t is justified and the site limitations can be ic variances necessary plus describe below tations are to be overcome, and provide a heet if necessary.	w the proposed system design	and function. The Evalu	ator shall further
				0000
	FRICK , S.E.,	certify that a variance to the Ru	ules is necessary since a	system cannot be
installed which will completely sat alternative available; enhances th	tisfy all the Rule requirements. In my judg se potential of the site for subsurface waste	ment, the proposed system deserved in the system deserved is and that the system deserved in the system deserved i	sign on the attached App stem should function pro	operly.
	SIGNATURE OF SITE EVALUA	<b>6</b>	DATE	1
/	SIGNATURE OF SITE EVALUATION	<b>36</b> /	DATE	
PROPERTY OWNER		<b>y</b>		
have performed their duties in a required by the Rules. By signing	not in total compliance with the Rules. Shown as a specific proper manual and I will put the variance request form, I acknowledge the cessary to evaluate the variance request.	promptly notify the Local Plumb e permission for representative est.	ing Inspector and make a softhe Department to e	any corrections
1 X ) Tor	RNO		ラーハ	
	SIGNATURE OF OWNER AGENT FOR THE OWNER		DATE	

LOCAL PLUMBING INSPECTOR - Approval at local level				
The local plumbing inspector shall review all First Time System Variance requests prior to rendering a decision I,				
67/20/11				
LPI Signature Date				
LOCAL BUILDING WARFETTER D. C. L. H. B.				
The local plumbing inspector shall review all First Time System Variance requests prior to forwarding to the Division of Environmental Health.  I,				
LPI Signature Date				
FOR USE BY THE DEPARTMENT ONLY  The Department has reviewed the variance(s) and (  does  does not) give its approval. Any additional requirements, recommendations, or reason for the Variance denial, are given in the attached letter.	ns			
SIGNATURE OF THE DEPARTMENT DATE				

Notes 1. Variances for soil conditions may be approved at the local level as long as the total point assessment is at least the minimum allowed. (See Section 7.B.4 of the Subsurface Wastewater Disposal Rules for Municipal Review.)

2. Variances for other than soil conditions or soil conditions beyond the limit of the LPI's authority are to be submitted to the Department for review. (See Section 7.B.3 for Department Review.) The LPI's signature is required on these variance requests prior to sending them to the Department.

## SOIL, SITE AND ENGINEERING FACTORS FOR FIRST TIME SYSTEM VARIANCE ASSESSMENT WITH LIMITING SOIL DRAINAGE CONDITIONS (SEE TABLES 7C THROUGH 7M).

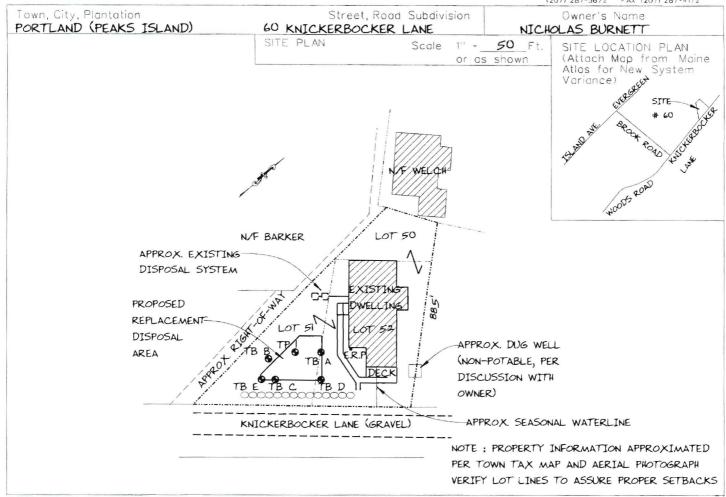
图 · · · · · · · · · · · · · · · · · · ·	CHARACTERISTIC	POINT ASSESSMENT
Soil Profile		
Depth to Groundwater/Restrictive Layer		
Terrain		
Size of Property		
Waterbody Setback		
Water Supply		
Type of Development		
Disposal Area Adjustment		
Vertical Separation Distance		
Additional Treatment		
	TOTAL POINT ASSESSMENT:	

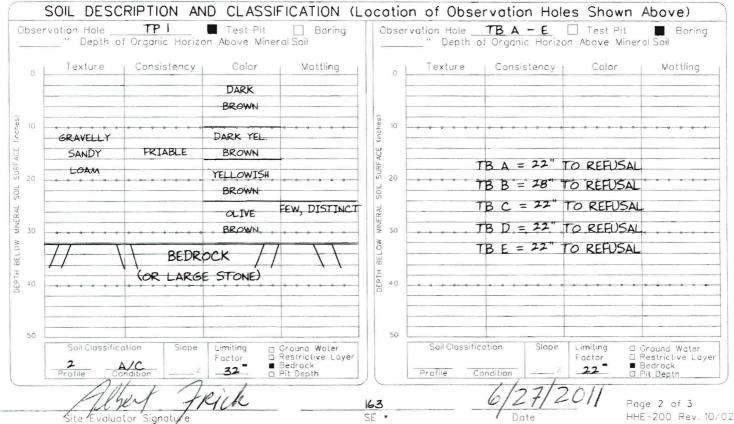
Minimum Points (Check One): ☐ Outside Shoreland Zone-50 ☐ Inside Shoreland Zone-65 ☐ Subdivision-65

<b>SUBSURFA</b>	CE WASTE	<i>N</i> ATER DISPOSAL	SYS	STEM APPLICA	TION	Div of Environmental Health , 11 SHS (207) 287-5672 FAX (207) 287-3165
Р	ROPERTY LO	CATION	>>CAI	JTION: PERMIT REQ	UIRED - A	TTACH IN SPACE BELOW <<
City, Town, or Plantation	PORTLAND (PEAKS ISLAND)					
Street or Road	60 KNICKERBOCKER LANE					
Subdivision, Lot #			Ę	BORTLAND OC	, PERMI	T,# 11704 TOWN,COPY
OWNE	R/APPLICANT	INFORMATION		Permit ssued:		S Double Fee FEE Charged
Name (last, first, MI) BURNETT		Owner		6/	2	L.P.I. # 1 0 811
Mailing Address				Local Plumbing Insector Sign	nature	
of Owner/Applicant	P.O. BOX 7693  PORTLAND, ME. 04112					
Daytime Tel. #	FORTLAND, ME	. 04112		Municipal Tax Map #	92 Lo	ot # 50,51 & 52 (SEC. F)
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.			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			
Signature	of Owner/Applicant	7-5-1\ Date		Local Plumbi	ng Inspector S	ignature (2nd) Date Approved
Signature	or Owner/Applicant		NEOF		ing mapector o	gradure (2nd) bate Approved
		PERMIT II	NFOR	MATION		
TYPE OF A	PPLICATION	THIS APPLICA	ATION F	REQUIRES	DISP	OSAL SYSTEM COMPONENTS
□ 1. First Time System ■ 2. Replacement System Type Replaced: CESSPOOL Year Installed: PRE-1974 □ 3. Expanded System □ a. <25% Expansion □ b.>25% Expansion □ 4. Experimental System □ 5. Seasonal Conversion		a. Local Plumbir b. State & Local 3.Replacement Syst a. Local Plumbin b. State & Local 4.Minimum Lot Size	<ul> <li>□ 1.No Rule Variance</li> <li>□ 2.First Time System Variance</li> <li>□ a. Local Plumbing Inspector Approval</li> <li>□ b. State &amp; Local Plumbing Inspector Approval</li> <li>■ 3.Replacement System Variance</li> <li>■ a. Local Plumbing Inspector Approval</li> <li>□ b. State &amp; Local Plumbing Inspector Approval</li> <li>□ 4.Minimum Lot Size Variance</li> <li>□ 5.Seasonal Conversion Permit</li> </ul>		<ul> <li>1. Complete Non-Engineered System</li> <li>2. Primitive System(graywater &amp; alt toilet)</li> <li>3. Alternative Toilet, specify:</li> <li>4. Non-Engineered Treatment Tank (only)</li> <li>5. Holding Tank, gallons</li> <li>6 Non-Engineered Disposal Field (only)</li> <li>7. Separated Laundry System</li> <li>8. Complete Engineered System(2000gpd+)</li> <li>9. Engineered Treatment Tank (only)</li> </ul>	
SIZE OF F	PROPERTY	DISPOSAL SY	VSTEM TO SERVE		ineered Disposal Field (only)	
SQ. FT. = 1 Single Femily Duy		I. Siligle I altilly Dwel	ling Uni	t, No. of Bedrooms: 5		treatment, specify:
# ACRES		S 2. Multiple Family Dwo				YPE OF WATER SUPPLY
☐ Yes	■ No	Current Use Seasonal	(specify) Current Use ■ Seasonal □ Year Round □ Undeveloped		<ul><li>□ 1. Drilled Well □ 2. Dug Well □ 3. Private</li><li>■ 4. Public □ 5. Other:</li></ul>	
166		GN DETAILS (SYSTE			ON PAGI	
TREATMEN		DISPOSAL FIELD TYPE &		GARBAGE DISPOSA		DESIGN FLOW
■ 1. Concre ■ a. Regu □ b. Low □ 2. Plastic □ 3. Other:	ete ular Profile	☐ 1. Stone Bed ☐ 2. Stone T☐ 3. Proprietary Device☐ a. Cluster array ☐ c.Line☐ b. Regular ☐ d. H-20 ☐ 4. Other:		■1. No □ 2. Yes □ If Yes or Maybe, specify one □ a. Multi-compartment □ b. □ tanks in se □ c. Increase in tank c.	3. Maybe e below: t tank pries	450 gallons per day BASED ON:  1 Table 4A (dwelling unit(s)) 2 Table 4C (other facilities) SHOW CALCULATIONS for other facilities
CAPACITY:			∐lin. ft.	lin. ft.		5 BEDROOMS AT
SOIL DATA & DE		33 ELJEN IN-DRAIN UNITS DISPOSAL FIELD SIZIN	G EFFLUENT/EJECTO		RPUMP	90 GALLONS PER DAY EACH
2 / A/C	,	☐ 1. <b>Me</b> dium - 2.6 sq.ft./gpd	<ul><li>1. Not required</li><li>2. May be required</li></ul>		d	3. Section 4G (meter readings) ATTACH WATER-METER DATA
at Observation Hol	TRD	■ 2. Medium-Large - 3.3 sq.ft.	t./gpd ■ 3. Required		at of b	LATITUDE AND LONGITUDE at center of disposal area
Depth 22 "		□ 3. Large - 4.1 sq.ft./gpd □ 4 Extra-Large - 5.0 sq.ft./gp	nd Lon. W 70 d		Lon. W 70 d       m   8 s	
of Most Limiting Soil Factor  A Extra-Large - 5.0 sq.rt./gpd  DOSE: gallons   If g.p.s., state margin of error  SITE EVALUATOR STATEMENT						
Certify that on 6/15/20  1 (date) I completed a site evaluation on this property and state that the data reported is accurate and						
that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241).						
Site Evaluator Signature			163 SE	3 <u>v</u>	Date	
7						
Site Ev	SERT FRICK aluator Name Printe	od T	elephor	ne Number	E-mail Ad	dress
ALDEDT FRICK AS	SSOCIATES - 95A	COUNTY ROAD ROAD GORHA the design should be confirmed	M, MAI with th	NE 04038 - (207) 839-556 e Site Evaluator	33	Page 1 of 3 HHE-200 Rev. 02/2011

### SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services Division of Health Engineering, Station 10 SHS (207) 287-5672 FAX (207) 287-4172





#### Maine Department of Human Services Division of Health Engineering, Station 10 SHS (207) 287-5672 FAX (207) 287-4172 SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Town.City.Plantation Street.Road.Subdivision Owner's Name PORTLAND (PEAKS ISLAND) 60 KNICKERBOCKER LANE NICHOLAS BURNETT SCALE 1" = 20 FT. SUBSURFACE WASTEWATER DISPOSAL PLAN 1500 GALLON CONCRETE-SEPTIC TANK (OR 2-1000'S, IN SERIES-LOCATE WHERE FEASIBLE, 8' MIN. FROM DWELLING) 80 PUMP STATION EXISTING DWELKING PROPOSED DISPOSAL AREA (33 ELJEN IN-DRAIN UNITS) LOT 53 1 1/2"-2" DIA! EFFLUENT LINE, EXISTING FLAGS AS ERP BURIED BELOW FROSTLINE OR STAKED IN FIELD INSULATED TO PREVENT FREEZING EXISTING GRADE AT CORNER DECK NON-POTABLE DUS WELL (APPROX) DISTRIBUTION BOX TONE WAL (BOTTOM FEED-CROSS INSULATE PER CODE 20 SECTION APPROX. TOE OF KNICKERBOCKER LANE (GRAVEL) VIEW FILL EXTENSION GRAPHIC SCALE CONSTRUCTION ELEVATIONS ELEVATION REFERENCE POINT FILL REQUIREMENTS : 25"-33" Finished Grade Elevation SEE Location & Description BOTTOM OF ELECTRIC METER BOX, 13" ABOVE BOTTOM OF SIDING (48" ABOVE GRADE) Reference Elevation is: 0.0" or \_\_\_\_ Depth of Fill (Upslope) Top of Distribution Pipe or Proprietory Device DETAIL : 25" Depth of Fill (Downslope) Bottom of Disposal Area THS AT CROSS-SECTION (shown below) DISPOSAL AREA CROSS SECTION HORIZONTAL: 1" - K ELJEN IN-DRAIN UNIT EXISTING SHOULDER FILL EXT FILL EXT. SHOULDER STONE WALL 1 3 GRAVELLY COARSE SAND DOUBLE 4" DIA OVERFLOW-PERFORATED PIPE LATE ADJACENT ROTOTILL OR SCARIFY WITH EXCAVATOR TEETH TO DISTRIBUTION PIPE SEE ELJEN CAP TOE OF FILL IN-DRAIN MANUAL WITH SANDY LOAM ON SERIAL DISTRIBUTION ON SLOPES FOR PROPER PIPING MATERIAL DEPTH BELOW ERP FOR ROW # : EXISTING GRADE SEE ELITEN IN-DRAIN MANIAL. (3)(6) ON SERIAL DISTRIBUTION ON SLOPES FOR PROPER PIPING -13" V FINISHED GRADE -03 -08" -18" -23" -28" CLEAN FILL -40" -44" GEOTEXTILE FABRIC . OVER 4" DIA PERF. PIPE -31" -36" -41" -46" -51" ELJEN IN-DRAIN UNIT CLES OR GRAVE \_ \_ 32." -42" -37" -52' -57" -47

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SE #

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Site Evaluator Signature



PORTLAND (PEAKS ISLAND)

60 KNICKERBOCKER LANE

NICHOLAS BURNETT

TOWN

#### LOCATION

APPLICANT'S NAME

- 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.
- 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.

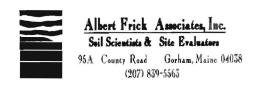
6) All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion to within 6" of a finished ground surface.

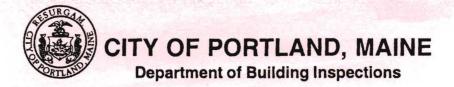
Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

PORTLAND (PEAKS ISLAND) 60 KNICKERBOCKER LANE NICHOLAS BURNETT

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.
- 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.
- 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.
- 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.
- 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.
- 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.





### **Original Receipt**

		7.5.	20 //
Received from		ichola Tus.	16 + f -
Location of Work	6	O Knick do	ker-
Cost of Construction	\$	Building Fee:	
Permit Fee	\$	Site Fee:	***************************************
	Certif	ficate of Occupancy Fee:	
		Total:	290
Building (IL) Plui	mbing (I5)	_ Electrical (I2) Site Pl	an (U2)
Other			
CBL: 92- F-	52		
Check #:		Total Collected s	20

No work is to be started until permit issued. Please keep original receipt for your records.

Taken by:

WHITE - Applicant's Copy YELLOW - Office Copy PINK - Permit Copy