# BRECKNOCK TOWNSHIP SMALL PROJECT APPLICATION

File Number	Date Received
Submitted Fees \$	Date of Approval of Application
Project Street Address:	
	:
Project Name:	
Owner's Name:	
Owner's Mailing Address:	
Phone# / Fax# / Email:	
Please list the date(s) of any pro-	evious Small Project Applications for the subject property:
Proposed Activity:	
	rading, filling or excavation of an area less than 5,000 square feet
Total area of land distur	rbance: sq. ft.
Type of Regulated Activ	vity (check all that apply):
	oval of ground cover
[ ] Gradi	nα
[ ] Filling	σ
[] Excav	
	earth disturbance activity (please describe)
[ ] Other	cartif disturbance activity (please describe)
[ ] Addition of Impervious Surf	face (more than 1,000 SF or less than 5,000 SF)
	s surface: [] driveway, [] shed, [] garage, [] walkway,
Total new impervious si	urface proposed for construction:sq. ft.
	ing impervious as part of this project?
[ ] No	
	a of existing Impervious to be removed sq. ft.
Check all items below that will	
Creeks, stream	s, wetlands, or ponds
Existing storm	water management facility (basin, swale, etc.)
Easements (Sp	ecify location/type)
	een proposed infiltration facility and existing features:
Water wells	
Septic drainfields / Alte	ernate septic drainfields (min 25')
Building w/ sub-grade e	elements (foundation/basement.etc.) (min 25')

# SMALL PROJECT APPLICATION PG. 2

Total runoff volume to be permanently removed/managed on site from attached calculation
worksheet: gallons or cubic feet
Proposed Stormwater Management Controls (Best Management Practice):
Infiltration Trench
Cistern / Rain Barrel (max 50% of volume)
Other (describe) *Other BMPs require approval by Township Engineer of proposed design/construction details, etc.
*Other BMPs require approval by Township Engineer of proposed design/construction details, etc.
<u>Sketch</u>
Provide a sketch of the proposed additional impervious area or land disturbance. Include the following on
the sketch:
Property boundary
<ul> <li>Location and approximate footprint (dimensions) of existing structures (buildings, patios,</li> </ul>
driveways, etc.)
<ul> <li>Approximate location of any of the following features which will be impacted by the project:         Mature trees, Sinkholes, Water wells, Septic drainfields, Alternate septic drainfields         Creeks, streams, wetlands, ponds</li> </ul>
Existing stormwater management facilities (basins, swales, etc.)
<ul> <li>Location and approximate footprint of proposed impervious area or land disturbance.</li> </ul>
<ul> <li>Approximate footprint of proposed impervious area of faild disturbance.</li> <li>Approximate footprint and location of all structures on subject property and structures on adjacent</li> </ul>
properties if located within fifty feet (50') of the proposed impervious area or land disturbance
<ul> <li>Location and description of proposed stormwater management facilities (e.g. infiltration trench,</li> </ul>
swales, rain barrels, etc.)
<ul> <li>Direction of proposed stormwater discharge (e.g. with arrows pointing downslope)</li> </ul>
<ul> <li>Direction of proposed stormwater discharge (e.g. with arrows pointing downslope)</li> <li>Direction of property grading (e.g. with arrows pointing downslope)</li> </ul>
Scale and north arrow
• Scale and north arrow
Person/Firm to be completing work:
Mailing Address:
Phone# / Fax# / Email:
Name of Person Submitting this Application:
Signature:
Date:

### **SMALL PROJECT APPLICATION PG. 3**

### **Small Project Application Calculation Worksheet**

The applicant may use the following to calculate the amount of runoff which must be managed in accordance with Section 93-15.F of this Ordinance.

ecordance with Section 93-13.F of this Ordinance.
Project Name:
Owner Name:
Proposed Additional Impervious Area: square feet
mpervious Area Calculations
Calculate the amount of runoff to be permanently removed (managed on site through reuse, evaporation, ranspiration or infiltration). A maximum of 50% of the required Permanently Removed Runoff Volume can be addressed through reuse (cistern/rain barrel), the remainder shall be handled with an infiltration rench or other approved BMP:
Additional impervious area (in square feet) ÷ 12 = Permanently Removed Runoff Volume (PRV)
square feet of additional impervious ÷ 12 =cubic feet PRV
For Infiltration Trench (Complete attached detail with proposed size):  Excavated bed volume shall be equal to the Permanently Removed Runoff Volume, in cubic feet, calculated above, divided by 0.40 (stone void ratio). (i.e. PRV = 100 CF, Required Trench Volume→ 100 CF/ 0.4 = 250 CF → Utilize trench 25' long x 5' wide x 2' deep.
For Cistern/Rain Barrel (max 50% of volume):cubic feet x 7.48 gallons per cubic feet =gallons PRV  *Provide construction detail/specification sheet for rain barrel/cistern; Detail must show  1. Overflow pipe at top of cistern discharging to a splash block/stone area  2. Overflow point must be minimum 50' from downslope property line and drain to grassed area

2. Overflow point must be minimum 50' from downslope property line and drain to grassed area that drains away from building.

Sketch (or attach additional sheet):

### **SMALL PROJECT APPLICATION PG. 4**

# **EXAMPLE**

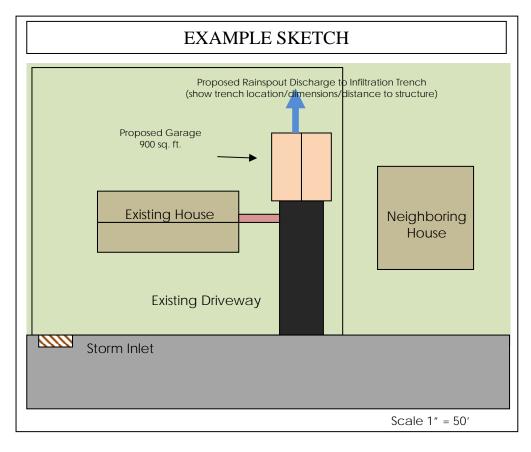
### Small Project Application Calculation Worksheet

Landowner Name:	Jane Doe	(20 x 45	' garage)	
Owner Name:	Jane Doe			
Proposed Additiona	al Impervious Area:	900	square feet	

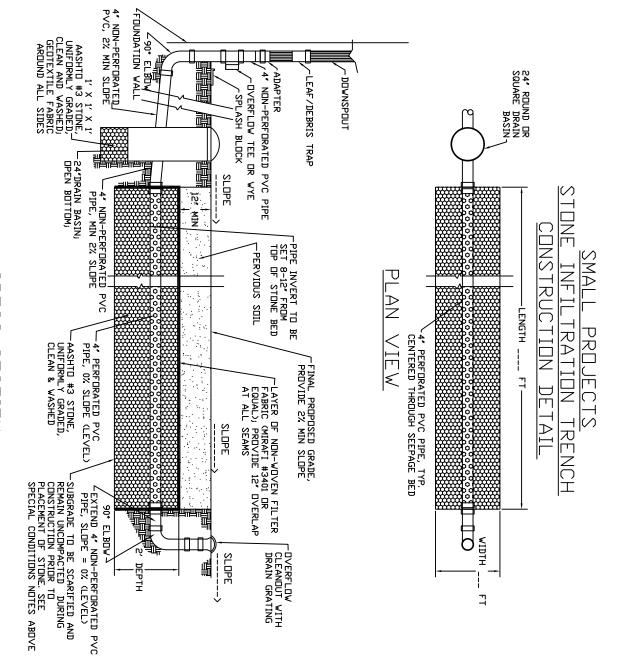
### Impervious Area Calculations

Calculate the amount of runoff to be permanently removed (managed on site through reuse, evaporation, transpiration or infiltration) using the following formula:

Additional impervious area  $\div 12 = Permanently Removed Runoff Volume (PRV)$ 



# SMALL PROJECTS APPLICATION <u> P</u> ഗ



# CROSS SECTION

- GENERAL NOTES:

  1. STONE INFIL:
- STONE INFILTRATION BED SHALL BE SIZED PER PROPOSED IMPERVIOUS SUFFACE DRAINING TO IT. STONE SHALL BE AASHTO #3, UNIFORMLY GRADED, CLEAN AND WASHED, WITH 40% VOID RATIO. LEAF SCREENS SHALL BE INSTALLED DIVER GUTTERS OR LEAF DEFLECTOR GUARDS INSTALLED IN THE DOWNSPOUT, OR OTHER APPROVED LEAF PROTECTION
- DEVICE.

  PROPERTY DANCE SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF STORMWATER FACILITIES IN ACCORDANCE WITH THE BRECKNOCK TOWNSHIP STORMWATER DRDINANCE, CHAPTER 93, AND THE STORMWATER DRDINANCE, CHAPTER 94, AND THE STORMWATER DRDINANCE, CHAPTER 94, AND THE STORMWATER DRDINANCE, CHAPTER 94, AND THE STORMWATER DRDINANCE, CHAPTER 95, AND THE STORMWATER DRDINANCE, CHAPTER 94, AND THE STORMWATER PROPRIESTED P RECORDED OPERATIONS & MAINTENANCE AGREEMENT.

- CONSTRUCTION NOTES:

  1. INSTALLATION OF STONE INFILTRATION TRENCH SHALL
  BE INSPECTED BY THE TOWNSHIP ENGINEER OR
  DESIGNATED REPRESENTATIVE, WITH A MINIMUM 24
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- 2. REQUIRED INSPECTIONS INCLUDE EXCAVATION PRIOR TO PLACEMENT OF STONE; STONE/PIPING PRIOR TO TOP LAYER OF FABRIC; AND FINAL GRADING AND SEEDING. ADDITIONAL INSPECTIONS MAY BE NECESSARY AS DETERMINED BY TOWNSHIP ENGINEER.

  3. PRIOR TO PLACEMENT OF STONE IN THE INFILTRATION TRENCH, THE CONTRACTOR OR PROPERTY OWNER SHALL MAKE A TEST PIT 2 FEET BELOW THE BUTTOM OF INFILTRATION TRENCH TO ENSURE THAT BEDROCK AND/OR GROUNDWATER ARE NOT PRESENT IN THIS ZONE; IF GROUNDWATER ARE NOT PRESENT IN THIS ZONE; IF GROUNDWATER AND RELOCATION OF THE INFILTRATION TRENCH.

  4. EXCAVATION FOR THE INFILTRATION TRENCH SHALL BE PERFORMED WITH EQUIPMENT THAT WILL NOT COMPACT THE BOTTOM OF THE BED AREA.

  5. INFILTRATION TRENCHS SHALL BE KEPT CLEAN OF SOIL/SEDIMENT DURING THE INSTALLATION PROCESS. IF INSPECTION INDICATES THAT SOIL HAS ENTERED THE INFILTRATION TRENCH, THEN APPROPRIATE MEASURES (IE CLEANING OF SOIL FROM FABRIC/STONE SHALL BE ADDRESSED. ω
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- φ AFTER INFILTRATION TRENCH IS INSTALLED, ALL HEAVY CONSTRUCTION EQUIPMENT SHALL BE RESTRICTED FROM THE TRENCH AREA TO ELIMINATE IMPACTS THAT MAY COMPROMISE IT. IN THE EVENT ANY IMPACTS COMPRISE THE FUNCTIONALITY OF THE INFILTRATION TRENCH, IT MUST BE IMMEDIATELY REPAIRED OR REPLACED TO DESIGN SPECIFICATIONS.

FINAL TRENCH DIMENSIONS MAY VARY ACCORDING TO SITE CONDITIONS BUT FINAL DIMENSIONS MUST PROVIDE THE REQUIRED TRENCH VOLUME (LENGTH \* WIDTH \* DEPTH) TRENCH DIMENSIONS: FINAL TRENCH DIMEN AND BE APPROVED BY THE TOWNSHIP