

## APPENDIX B

### STORMWATER MANAGEMENT PERMIT APPLICATION

Anyone performing a regulated activity must complete the accompanying Stormwater Management Permit Application, and submit to the Municipality. A regulated activity is defined by this Ordinance as:

**Regulated Activity** - Any earth disturbance activities or any activities that involve the alteration or development of land in a manner that may affect stormwater runoff.

This includes but is not limited to: the clearing of wooded areas, grading and excavating, placement of pavement (driveways, parking areas, roads), construction of buildings and other structures (homes, sheds, garages, commercial and industrial buildings), and other activities which alter the way stormwater runs off of the landscape. Impervious area is defined by this Ordinance as:

**Impervious Surface (Impervious Area)** - A surface that prevents the infiltration of water into the ground. Impervious surfaces include, but are not limited to, streets, sidewalks, pavements, parking lots, driveways, roofs, stone patios. See definition of "Gravel (Crushed Stone)" for when gravel classifies as impervious area.

**Gravel (Crushed Stone)** - Considered to be impervious when the intended use of the stone is for transportation purposes, parking areas, construction areas, trails, or if the gravel is compacted at any time during or after its placement; landscaping stone is not considered as impervious area.

Depending on the amount of impervious area placed and the amount of earth disturbance to the project site, this Ordinance requires different levels of stormwater management, and correspondingly different levels of design and review.

**Level 1:** Proposed impervious area is less than 1,000 sq. ft. and total earth disturbance is less than 5,000 sq. ft.

**Stormwater Management Controls:** Ensure that adverse downstream impacts do not occur due to redirecting stormwater flows towards nearby structures.

**Submission:** Submit the Stormwater Management Permit Application and Project Sketch; the easiest mechanism is to include the application with Building Permits.

**Review:** Reviewing the application will not likely require a qualified professional.

**Level 2:** Proposed impervious area is between 1,000 sq. ft. and 5,000 sq. ft. or total earth disturbance is between 5,000 sq. ft. and 10,000 sq. ft.

**Stormwater Management Controls:** Utilize Disconnected Impervious Area (DIA) for stormwater controls as outlined in Ordinance Appendix C.1; if DIA cannot be achieved, utilize stormwater management controls for small projects as outlined in Ordinance Appendix E.

**Submission:** Submit the Stormwater Management Permit Application and computations for DIA; the worksheet in this Ordinance Appendix C.1 may be used and submitted as is, or may be modified as the Municipality sees fit. If DIA cannot be achieved, submit computations for Stormwater Management for Small Projects; the worksheet in this Ordinance Appendix E may be used and submitted as is, or may be modified as the Municipality sees fit; the easiest mechanism is to include the application with Building Permits.

**Review:** Reviewing the application and computations may require a qualified professional if the person responsible for issuing Building Permits is not comfortable with performing the review.

**Level 3:** Proposed impervious area is between 5,000 sq. ft. and 10,000 sq. ft. or total earth disturbance is between 10,000 sq. ft. and 20,000 sq. ft.

**Stormwater Management Controls:** Capture and permanently remove the first 2 inches of runoff over all proposed impervious areas; infiltrate at least the first 0.5 inches.

**Submission:** Submit the Stormwater Management Permit Application and computations for permanently removing the first 2 inches of runoff over all proposed impervious areas; the worksheet in this Ordinance Appendix D may be used and submitted as is, or may be modified as the Municipality sees fit.

**Review:** Reviewing the application and computations will most likely require a qualified professional.

**Level 4:** Proposed impervious area is greater than 10,000 sq. ft. or total earth disturbance is greater than 20,000 sq. ft.

**Stormwater Management Controls:** All requirements of this Ordinance are applicable, including water quality and volume controls as found in Article III Section 303 and peak rate controls as found in Article III Section 304.

**Submission:** Submit the Stormwater Management Permit Application and Stormwater Management (SWM) Site Plan as in Article IV of this Ordinance.

**Review:** Reviewing the application and SWM Site Plan requires a qualified professional.

Following the Stormwater Management Permit Application and accompanying sketch sheet are examples of common smaller projects which do not require the review by a qualified professional (review by a qualified professional is optional). An Alternative Stormwater Management Permit Application is also provided following the examples. Both forms may be modified by the Municipality before one is selected.

## STORMWATER MANAGEMENT PERMIT APPLICATION

Applicant and Applicant Address:	Nature of Activity (i.e. driveway, single-lot structure, parking lot, road, trail, subdivision, etc.):
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Total Proposed Impervious Area (I) (sq. ft.):

Total Proposed Earth Disturbance (ED) (sq. ft.):

Level 1: (I) is less than 1,000 sq. ft. and (ED) is less than 5,000 sq. ft. →

Level 2: (I) is between 1,000 sq. ft. and 5,000 sq. ft. or (ED) is between 5,000 sq. ft. and 10,000 sq. ft.

Complete and attach worksheet contained in Ordinance Appendix C.1 or E (or equivalent)

Is worksheet attached?  
 No \_\_\_\_\_  
 Yes \_\_\_\_\_

Level 3: (I) is between 5,000 sq. ft. and 10,000 sq. ft. or (ED) is between 10,000 sq. ft. and 20,000 sq. ft.

Complete and attach worksheet contained in Ordinance Appendix D (or equivalent)

Is worksheet attached?  
 No \_\_\_\_\_  
 Yes \_\_\_\_\_

Level 4: (I) is greater than 10,000 sq. ft. or (ED) is greater than 20,000 sq. ft.

Complete and submit SWM Site Plan in accordance with Ordinance Article IV

Is a SWM Site Plan included?  
 No \_\_\_\_\_  
 Yes \_\_\_\_\_

Show on the accompanying sketch that adverse downstream stormwater impacts are not created or worsened, and that additional stormwater runoff will not discharge towards adjacent property owners.

All requirements of the Ordinance have been met. Applicant Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### FOR REVIEWER ONLY

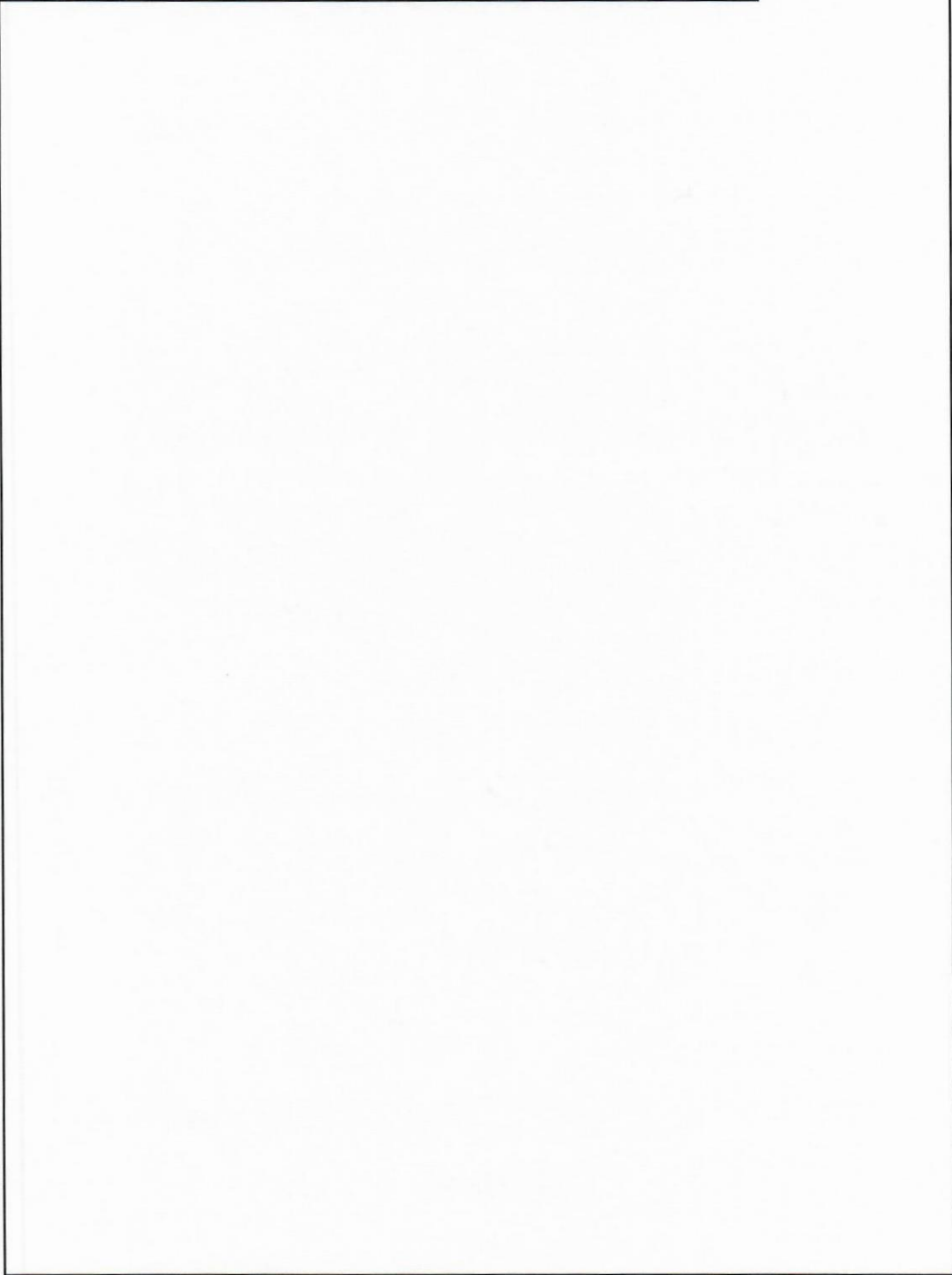
This stormwater management permit application has been APPROVED DENIED (circle one)

Reviewed by (print): \_\_\_\_\_ Reason for Denial: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## PROJECT SKETCH

- Show direction of proposed stormwater discharges
- Show all structures within 50 feet of site
- If storm sewers are present, show approximate location of inlets



**EXAMPLE 1 STORMWATER MANAGEMENT PERMIT APPLICATION**

<p>Applicant and Applicant Address:</p> <p>Joe Homeowner 123 Site Street Anytown, PA 12345</p>	<p>Nature of Activity (i.e. driveway, single-lot structure, parking lot, road, trail, subdivision, etc.):</p> <p>Construction of one car garage</p>
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Total Proposed Impervious Area (I) (sq. ft.): 300 square feet

Total Proposed Earth Disturbance (ED) (sq. ft.): 400 square feet

**Level 1:** (I) is less than 1,000 sq. ft. and (ED) is less than 5,000 sq. ft.

Level 2: (I) is between 1,000 sq. ft. and 5,000 sq. ft. or (ED) is between 5,000 sq. ft. and 10,000 sq. ft.

Complete and attach worksheet contained in Ordinance Appendix C.1 or E (or equivalent)

Is worksheet attached?  
No \_\_\_\_\_  
Yes \_\_\_\_\_

Level 3: (I) is between 5,000 sq. ft. and 10,000 sq. ft. or (ED) is between 10,000 sq. ft. and 20,000 sq. ft.

Complete and attach worksheet contained in Ordinance Appendix D (or equivalent)

Is worksheet attached?  
No \_\_\_\_\_  
Yes \_\_\_\_\_

Level 4: (I) is greater than 10,000 sq. ft. or (ED) is greater than 20,000 sq. ft.

Complete and submit SWM Site Plan in accordance with Ordinance Article IV

Is a SWM Site Plan included?  
No \_\_\_\_\_  
Yes \_\_\_\_\_

Show on the accompanying sketch that adverse downstream stormwater impacts are not created or worsened, and that additional stormwater runoff will not discharge towards adjacent property owners.

All requirements of the Ordinance have been met. Applicant Signature: Joseph Homeowner Date: 6/30/2010

**FOR REVIEWER ONLY**

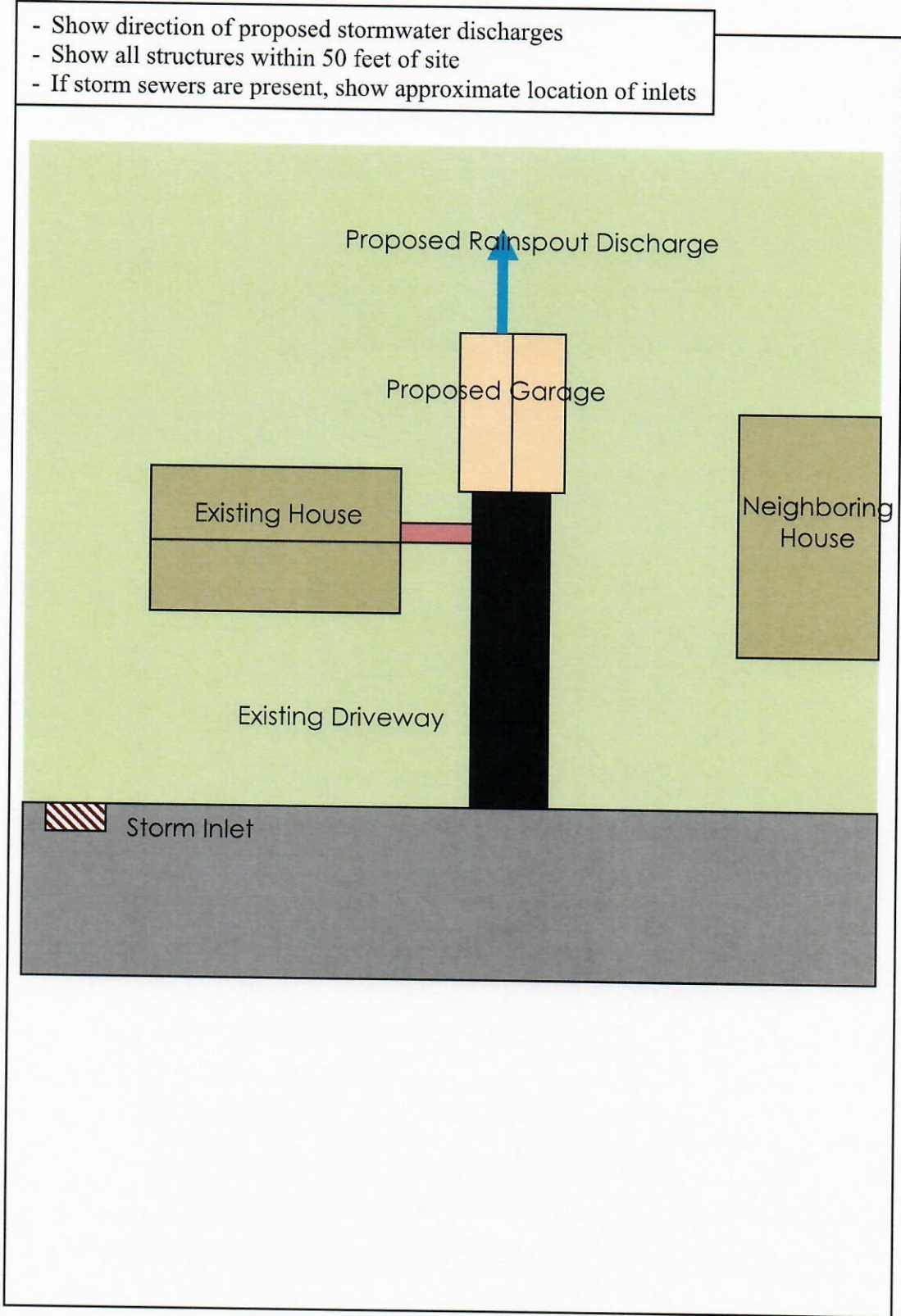
This stormwater management permit application has been **APPROVED** DENIED (circle one)

Reviewed by (print): Municipal Official Reason for Denial: N/A

Signature: Municipal Official

Date: 6/30/2010

### EXAMPLE 1 PROJECT SKETCH



**EXAMPLE 2 STORMWATER MANAGEMENT PERMIT APPLICATION**

Applicant and Applicant Address:  Joe Homeowner 123 Site Street Anytown, PA 12345	Nature of Activity (i.e. driveway, single-lot structure, parking lot, road, trail, subdivision, etc.):  Construction of single-family home, driveway, and stone patio
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Total Proposed Impervious Area (I) (sq. ft.): 3,300 square feet

Total Proposed Earth Disturbance (ED) (sq. ft.): 6,000 square feet

Level 1: (I) is less than 1,000 sq. ft. and (ED) is less than 5,000 sq. ft.

**Level 2:** (I) is between 1,000 sq. ft. and 5,000 sq. ft. or (ED) is between 5,000 sq. ft. and 10,000 sq. ft.

Complete and attach worksheet contained in Ordinance Appendix C.1 or E (or equivalent)

Is worksheet attached?  
 No \_\_\_\_\_  
 Yes \_\_\_\_\_

Level 3: (I) is between 5,000 sq. ft. and 10,000 sq. ft. or (ED) is between 10,000 sq. ft. and 20,000 sq. ft.

Complete and attach worksheet contained in Ordinance Appendix D (or equivalent)

Is worksheet attached?  
 No \_\_\_\_\_  
 Yes \_\_\_\_\_

Level 4: (I) is greater than 10,000 sq. ft. or (ED) is greater than 20,000 sq. ft.

Complete and submit SWM Site Plan in accordance with Ordinance Article IV

Is a SWM Site Plan included?  
 No \_\_\_\_\_  
 Yes \_\_\_\_\_

Show on the accompanying sketch that adverse downstream stormwater impacts are not created or worsened, and that additional stormwater runoff will not discharge towards adjacent property owners.

All requirements of the Ordinance have been met. Applicant Signature Joseph Homeowner Date: 6/30/2010

**FOR REVIEWER ONLY**

This stormwater management permit application has been **APPROVED** DENIED (circle one)

Reviewed by (print): Municipal Official Reason for Denial: N/A

Signature: Municipal Official

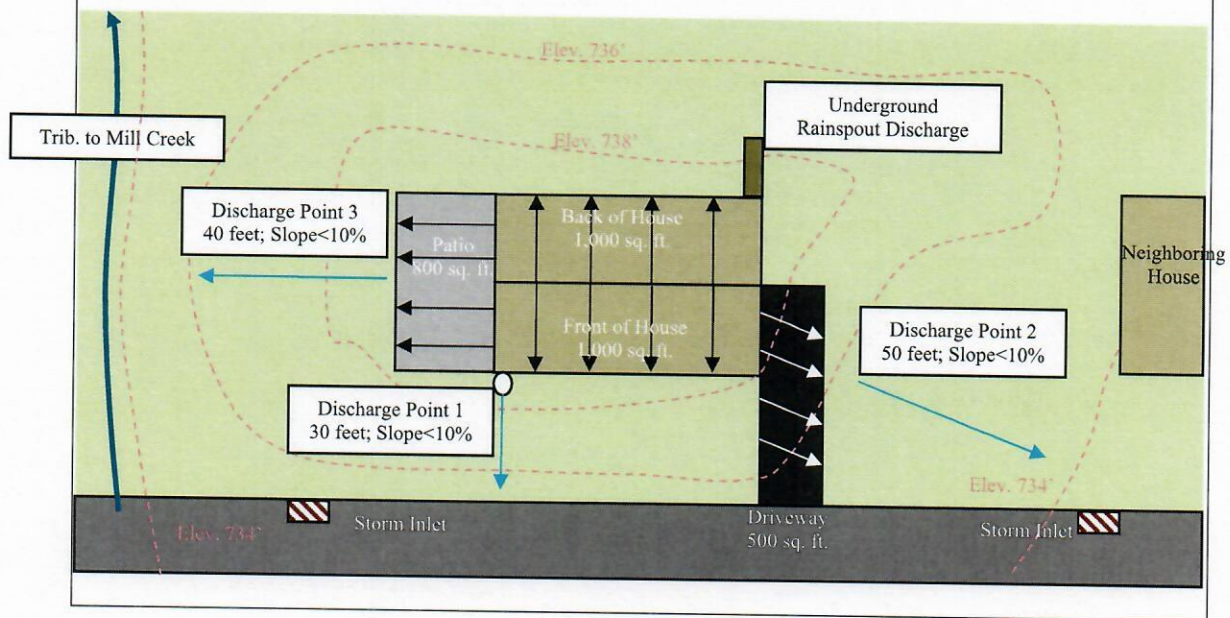
Date: 6/30/2010

**EXAMPLE 2 PROJECT SKETCH – Homeowner opted to utilize the worksheet provided in Appendix C.1 to show stormwater management for DIA.**

<b>Applicant Address:</b> Joe Homeowner 123 Site Street Anytown, PA 12345	<b>Brief Description of Project:</b> Construction of 2,000 sq. ft. (40' x 50') single-family home with 500 sq. ft. driveway (10' x 50') and 800 sq. ft. stone patio (20' x 40'). The back half of the house discharges to rainspouts underground.				
<b>Nearest waterbody:</b>  Tributary to Mill Creek	<b>No more than 1,000 sq. ft. can discharge to one point on the surface.</b>  <b>Number of surface discharge points required:</b> 3				
<b>Total Proposed Impervious Area (A):</b> 3,300 sq. ft. <b>Total Earth Disturbance:</b> 6,000 sq. ft.	<b>Discharge Point 1:</b>  Front of Home	<b>Discharge Point 2:</b>  Driveway	<b>Discharge Point 3:</b>  Patio	<b>Discharge Point 4:</b>  N/A	<b>Discharge Point 5:</b>  N/A
	<b>Area:</b> 1,000 sq. ft.	<b>Area:</b> 500 sq. ft.	<b>Area:</b> 800 sq. ft.	<b>Area:</b> N/A	<b>Area:</b> N/A
<b>Are rainspouts discharged underground? (Y/N)</b> Yes <b>If yes, contributing impervious area (B):</b> 1,000 sq. ft.	<b>Impervious Path Length:</b> 20 ft	<b>Impervious Path Length:</b> 10 ft	<b>Impervious Path Length:</b> 20 ft	<b>Impervious Path Length:</b> N/A	<b>Impervious Path Length:</b> N/A
	<b>Pervious Path Length:</b> 30 ft	<b>Pervious Path Length:</b> 50 ft	<b>Pervious Path Length:</b> 40 ft	<b>Pervious Path Length:</b> N/A	<b>Pervious Path Length:</b> N/A
<b>Total Impervious Area Discharged on Surface (A) – (B):</b> 3,300 – 1,000 = 2,300 sq. ft.	<b>Pervious Path Slope &lt;10%? (Y/N)</b>  Yes	<b>Pervious Path Slope &lt;10%? (Y/N)</b>  Yes	<b>Pervious Path Slope &lt;10%? (Y/N)</b>  Yes	<b>Pervious Path Slope &lt;10%? (Y/N)</b>  N/A	<b>Pervious Path Slope &lt;10%? (Y/N)</b>  N/A

**HSG Soil Group from Appendix F.2 Hydrologic Soils Group Map (Cannot be “D” Soils):** HSG “C”

**Project sketch:**





**EXAMPLE 3 STORMWATER MANAGEMENT PERMIT APPLICATION**

Applicant and Applicant Address:  Joe Homeowner 123 Site Street Anytown, PA 12345	Nature of Activity (i.e. driveway, single-lot structure, parking lot, road, trail, subdivision, etc.):  Construction of single-family home, driveway, and stone patio
Total Proposed Impervious Area (I) (sq. ft.): 3,300 square feet  Total Proposed Earth Disturbance (ED) (sq. ft.): 6,000 square feet	
Level 1: (I) is less than 1,000 sq. ft. and (ED) is less than 5,000 sq. ft.	
Level 2: (I) is between 1,000 sq. ft. and 5,000 sq. ft. or (ED) is between 5,000 sq. ft. and 10,000 sq. ft.	
Complete and attach worksheet contained in Ordinance Appendix C.1 or E (or equivalent)	Is worksheet attached? No _____ Yes <u>_____</u>
Level 3: (I) is between 5,000 sq. ft. and 10,000 sq. ft. or (ED) is between 10,000 sq. ft. and 20,000 sq. ft.	
Complete and attach worksheet contained in Ordinance Appendix D (or equivalent)	Is worksheet attached? No _____ Yes _____
Level 4: (I) is greater than 10,000 sq. ft. or (ED) is greater than 20,000 sq. ft.	
Complete and submit SWM Site Plan in accordance with Ordinance Article IV	Is a SWM Site Plan included? No _____ Yes _____

Show on the accompanying sketch that adverse downstream stormwater impacts are not created or worsened, and that additional stormwater runoff will not discharge towards adjacent property owners.

All requirements of the Ordinance have been met. Applicant Signature Joseph Homeowner Date: 6/30/2010

**FOR REVIEWER ONLY**

This stormwater management permit application has been APPROVED **DENIED** (circle one)

Reviewed by (print): Municipal Official Reason for Denial: Rainspout discharges to driveway, and driveway discharges to street

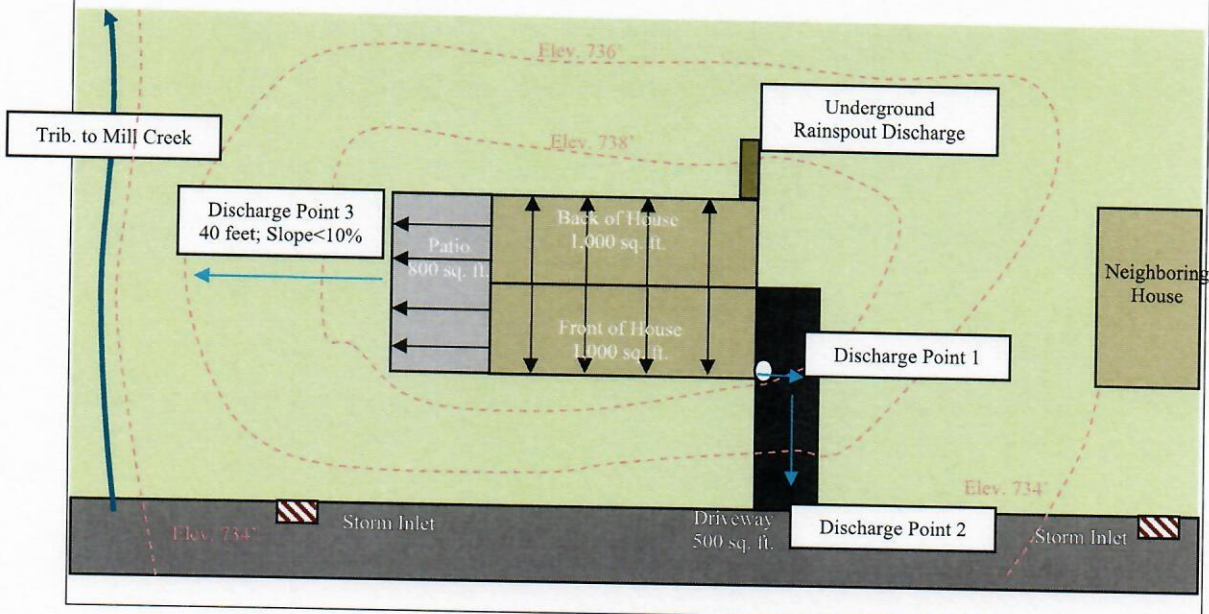
Signature: Municipal Official Date: 6/30/2010

**EXAMPLE 3 PROJECT SKETCH – Homeowner opted to utilize the worksheet provided in Appendix C.1 to show stormwater management for DIA.**

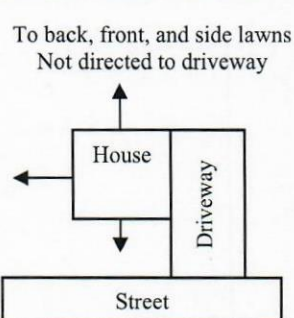
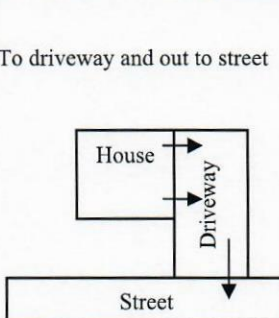
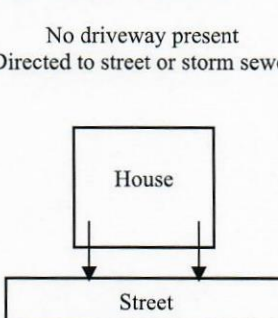



<b>Applicant Address:</b> Joe Homeowner 123 Site Street Anytown, PA 12345	<b>Brief Description of Project:</b> Construction of 2,000 sq. ft. (40' x 50') single-family home with 500 sq. ft. driveway (10' x 50') and 800 sq. ft. stone patio (20' x 40'). The back half of the house discharges to rainspouts underground.				
<b>Nearest waterbody:</b>  Tributary to Mill Creek	<b>No more than 1,000 sq. ft. can discharge to one point on the surface.</b>  <b>Number of surface discharge points required:</b> 3				
<b>Total Proposed Impervious Area (A):</b> 3,300 sq. ft. <b>Total Earth Disturbance:</b> 6,000 sq. ft.	<b>Discharge Point 1:</b>  Front of Home	<b>Discharge Point 2:</b>  Driveway	<b>Discharge Point 3:</b>  Patio	<b>Discharge Point 4:</b>  N/A	<b>Discharge Point 5:</b>  N/A
	<b>Area:</b> 1,000 sq. ft.	<b>Area:</b> 500 sq. ft.	<b>Area:</b> 800 sq. ft.	<b>Area:</b> N/A	<b>Area:</b> N/A
<b>Are rainspouts discharged underground? (Y/N)</b> Yes <b>If yes, contributing impervious area (B):</b> 1,000 sq. ft.	<b>Impervious Path Length:</b> 20 ft	<b>Impervious Path Length:</b> 50 ft	<b>Impervious Path Length:</b> 20 ft	<b>Impervious Path Length:</b> N/A	<b>Impervious Path Length:</b> N/A
	<b>Pervious Path Length:</b> N/A	<b>Pervious Path Length:</b> N/A	<b>Pervious Path Length:</b> 40 ft	<b>Pervious Path Length:</b> N/A	<b>Pervious Path Length:</b> N/A
<b>Total Impervious Area Discharged on Surface (A) – (B):</b> 3,300 – 1,000 = 2,300 sq. ft.	<b>Pervious Path Slope &lt;10%? (Y/N)</b>  N/A	<b>Pervious Path Slope &lt;10%? (Y/N)</b>  N/A	<b>Pervious Path Slope &lt;10%? (Y/N)</b>  Yes	<b>Pervious Path Slope &lt;10%? (Y/N)</b>  N/A	<b>Pervious Path Slope &lt;10%? (Y/N)</b>  N/A

**HSG Soil Group from Appendix F.2 Hydrologic Soils Group Map (Cannot be “D” Soils):** HSG “C”

**Project sketch:**



## ALTERNATIVE STORMWATER MANAGEMENT PERMIT APPLICATION

Applicant Name and Address:		
What is the nature of your project? (check all that apply)		
<input type="checkbox"/> Single Family Home	<input type="checkbox"/> Paved Driveway	<input type="checkbox"/> Deck (w/ roof)
<input type="checkbox"/> Addition to Home	<input type="checkbox"/> Gravel Driveway	<input type="checkbox"/> Earthwork (fill or excavation)
<input type="checkbox"/> Garage	<input type="checkbox"/> Outdoor Stone Patio	<input type="checkbox"/> Subdivision/Land Development
<input type="checkbox"/> Storage Shed	<input type="checkbox"/> Deck (no roof)	<input type="checkbox"/> Other (explain) _____
What is the total amount of disturbed area for the project? (limits of fill placement, excavation, tree/shrub clearing)		
Length (feet)		
Area = Length x Width	<input style="width: 100px; height: 20px;" type="text"/>	Width (feet)      Area = _____ (sq. ft.)
What is the total amount of impervious area for the project? (asphalt, concrete, compacted gravel, stone, roofs)		
Length (feet)		
Area = Length x Width	<input style="width: 100px; height: 20px;" type="text"/>	Width (feet)      Area = _____ (sq. ft.)
If the project involves roofing, are gutters and rainspouts used?    Yes    No    (circle one)		
If rainspouts are used, select the sketch below that approximates where they are directed:		
<p style="text-align: center;">To back, front, and side lawns Not directed to driveway</p> 	<p style="text-align: center;">To driveway and out to street</p> 	<p style="text-align: center;">No driveway present Directed to street or storm sewer</p> 
Indicate the slope of the site the project is located on by selecting one of the sketches below:		
 <p>Mild slopes or flat</p>	 <p>Perched project – slopes in all directions</p>	 <p>Steep slope in one general direction</p>
**** Include additional sketches and sheets as necessary ****		
Reviewer Signature: _____		Date: _____    APPROVED DENIED