	FreedomTownship
	2184 Pumping Station Road
	Fairfield, PA 17320
	Phone: 717.337.2926 Fax: 717.337.3545
FREEDOM TOWNSHIP	www.freedomtownship.us

Property Location/Address:								
Tax Parcel ID #			Approximate Parcel S	ize		_		
<u>OWNER</u>			APPLICANT	<u>APPLICANT</u> Same as owner				
Owner Name (print)			Applicant Name (print)					
Address			Address					
City	State	Zip	City		State Zip			
Phone Ce	ell		Phone	Cell				
Email	Fax	the following	Email		Fax			
A Sketch Plan must be included a	and snow	the following	<u>;</u>					
Impervious Area								
Are there any known existing dr problems? (if yes, please explain)	uniuge pre		potential for the prop		reate dramage			
<u>Acknowledgement</u> – I declare that provided is accurate to the best adjacent properties or be directe information may result in a stop to the property for review and /	of my kn d onto and work order	owledge. I other propert or revocation	understand that stormy y without written perm of permits. Municipal r	vater may not ad iission. I also und	versely affect lerstand that fal	se		
Owner/Applicant Signature	0	Wheer/Applicant Provide the Provident Providen	rint Name	Date				
This document was signed before me on								
Notary Signature	N	otary Print Name		Commission Ex	xpiration			
Type of Stormwater Management	Required.*	k	To be Completed by	y Authorized Mu	nicipal Officer	Only		
Exempt from stormwater managemen			et A and Sketch Plan)					
Minor stormwater management site pl necessary BMP's)			,	Determined By (M	lunicipal Officer)			
Formal stormwater management plan	preparation (Consult a profes	ssional)	Date Determined				

*Based on information provided on this Worksheet & Sketch Plan received on:



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Freedom Township Simplified Design Approach Worksheet B

Step 1:

Determine the amount of impervious area created by the proposed projects. This includes any new surface area that inhibits the infiltration of stormwater into the ground. New stone and gravel areas area considered impervious. Existing impervious areas are not included in this calculation.

Surface	Length	Width	Total Impervious Area (SF)		
Buildings					
Buildings					
Driveways					
Parking Areas					
Patios/Walkways					
Decks					
Other					
Total Proposed Impervious Area:					

Step 2:

Determine the Disconnect Impervious Area (DIA). All or parts of proposed impervious surfaces may qualify as Disconnected Impervious Area if runoff is directed to a pervious area that allows for infiltration, filtration and increased time of concentration. The volume of stormwater that needs to be managed could be reduced through DIA. Prepare a Minor Stormwater Management Site Plan to determine DIA.

Determining Status of DIA

- a) Determine contributing area to the roof/driveway to each disconnected discharge. If it's 500 ft² or less (roof) or 1,000 ft² (driveway), continue to "b". If it's greater than these amounts, the area does not qualify as DIA
- **b)** Determine the length of down slope pervious flow path available for each disconnected discharge.
- c) Determine the % slope of the pervious flow path, % slope = (rise/ run) x 100. Must be 5% or less.
- **d)** See the table on the next page to determine the percentage of the area that can be treated as disconnected. If the available length of the flow path is equal to or greater than 75 ft, the discharge qualifies as entirely disconnected.

Partial Disconnections							
Length of Pervious Flow Path *(ft) Lots 10,000 ft. ² & under	Length of Pervious Flow Path* (ft) Lots >10,000 ft. ²	DIA Credit Factor					
0 - 7.9	0 - 14	1.00					
8 - 15.9	15 - 29	0.80					
16 - 22.9	30 - 44	0.60					
23 - 29.9	45 - 59	0.40					
30 - 34.9	60 - 74	0.20					
35 or more	75 or more	0.00					

Freedom Township Simplified Design Approach Worksheet B

*Pervious flow path must be at least 15 feet from any impervious surface and cannot include impervious surfaces.

Using step 2 calculations calculated from the minor stormwater site plan, complete the table below. This will determine the impervious area that may be excluded from the area that needs to be managed through stormwater management BMP's. If total impervious area to be managed is zero, the area can be considered entirely disconnected and further calculations are not needed.

TABLE 2						
Surface	Area (sq. ft.)	DIA Credit	Impervious Area to be Managed (sq. ft.)			
Buildings						
Buildings						
Buildings						
Buildings						
Buildings						
Driveways						
Driveways						
Parking Areas						

If total impervious surface area to be managed is greater than zero, continue to Step 3.

Freedom Township Simplified Design Approach Worksheet B

Step 3:

Calculate the volume of stormwater runoff created by proposed impervious surfaces.

Impervious Area (sq. ft.) to be Managed (Sum from Table 2)	3.12" / 12" (from 24 hour rainfall)			Volume of Stormwater be Managed (cubic ft.)
	Х	0.26	Х	

Step 4:

Select BMP's and size according to the volume of stormwater that needs to be managed in Step 3.

TABLE 3 - BMP Sizing Table*							
BMP Type	Necessary Volume** (from Step 3)	Length	Width	Depth	Void Ratio	Volume***	
Infiltration Bed or Tranch					0.4		
Infiltration Berm					1		
Rain Garden					0.4 in stone 1.0 above ground		
Rain Barrel or Other Usable Storage		Use known volume of rain barrel, etc. 1 cubic foot is equal to 7.48 gallons			1		
Other							

* Chart should only be used when a formal SWM Site Plan is not required.

** Should not include areas that were proven to be 100% disconnected.