



# LONGSWAMP TOWNSHIP

BERKS COUNTY  
MERTZTOWN, PENNSYLVANIA 19539

1112 STATE STREET

OFFICE HOURS DAILY - MONDAY THRU FRIDAY 9:00 A.M. TO 4:00 P.M. - - - PHONE 610-682-7388  
FAX 610-682-9067

## **Important Notice**

The State of Pennsylvania has adopted the 2018 ICC Code effective February 14, 2022. All applications received after February 14, 2022 are governed by the 2018 ICC Codes unless documentation is provided in the form of a signed contract dated prior to February 14, 2022. If documentation is provided the application will be reviewed under the previously adopted 2015 ICC Code. Any application submitted after August 14, 2022 will automatically be reviewed under the 2018 ICC Code. Please see the below posting from the PA Land I website regarding this code change.

*“The revised regulations adopting the 2018 ICC-Code series as reviewed and amended by the Review and Advisory Council (RAC) have an effective date of February 14, 2022. Where a design or construction contract is signed before this effective date application may be made and permit issued under the Uniform Construction Code {UCC} in effect at the time of contract as long as application is made August 14, 2022 or before. Municipalities are permitted to adopt ordinance specifying a period prior to August 14, 2022.*

*Additionally, the accessibility provisions of the 2021 ICC Code series were published on December 25, 2021 and became effective on December 25, 2021. The accessibility provisions adopted are also subject to the design contract provisions stated previously. Where a design or construction contract is signed before this effective date application may be made and permit issued for accessibility provisions under the Uniform Construction Code (UCC) in effect at the time of contract as long as application is made June 25, 2022 or before*

# **LTL CONSULTANTS, LTD – (610-987-9290)**

## **PERMIT APPLICATION CHECKLIST**

### **Zoning Permit:**

- Submit Application Fee Deposit of \$50.00 CHECK PAYABLE TO LONGSWAMP TOWNSHIP**
- Complete the Zoning/Building Permit Application.
- Provide a plot plan showing all structures, including sizes, located on the property along with the distance of the structures to each property line. Please note the location of the septic system, well, and any easements on the property.
- Sign the Permit Terms and Conditions

### **Residential Building Permit:**

- Complete the Zoning/Building Permit Applications. If electrical, plumbing, and/or mechanical work is being performed, please be sure to complete all appropriate applications. Submit workers compensation insurance for each contractor.
- Complete the driveway and/or well application (if applicable)
- Submit Application Fee (if applicable for your Township)

#### **CHECK PAYABLE TO: LONGSWAMP TOWNSHIP**

- Provide a plot plan showing all structures, including sizes, located on the property along with the distance of the structures to each property line. Please note the location of the septic system, well, and any easements on the property.
- Provide two (2) copies of the building plans.
- Provide proof of EDU from the Sewer Authority or On-Lot Septic permit from the Sewage Enforcement Officer (if applicable)
- Provide Highway Occupancy Permit from PennDot (if applicable)
- Provide approval from Water Authority for public water connection (if applicable)
- Provide Stormwater Management Permit (if applicable)
- Sign the Permit Terms and Conditions
- Provide Erosion & Sediment Control Plan approval from Conversation District (if applicable)

**Additional information/documents may be required depending on the type of construction.**

**CALL BEFORE YOU DIG, MAKE A PA ONE CALL - Dial 811**

# LTL CONSULTANTS, LTD – (610-987-9290)

## PERMIT APPLICATION CHECKLIST

### **Commercial Building Permit:**

- Complete the Zoning/Building Permit Application. If electrical, plumbing, and/or mechanical work is being performed, please be sure to complete all appropriate applications.
- Submit Application Fee of **\$500.00** (if applicable for your Township)  
**CHECK PAYABLE TO LONGSWAMP TOWNSHIP**
- Provide a site plan showing the size and location of new construction and existing structures on the site, distances from lot lines, the established street grades and the proposed finished grades, the location of parking spaces, accessible routes, public transportation stops and other required accessibility features. If the construction involves demolition, the site plan shall indicate construction that is to be demolished and the size and location of existing structures and construction that will remain on the site or plot.
- Provide three (3) copies of building, electrical, plumbing, and mechanical plans that are signed and sealed by a Pennsylvania licensed design professional.
- Provide Land Development Approval (if applicable)
- Provide proof of EDU from the Sewer Authority or On-Lot Septic permit from the Sewage Enforcement Officer (if applicable)
- Provide Highway Occupancy Permit from PennDot (if applicable)
- Provide approval from Water Authority for public water connection (if applicable)
- Provide Stormwater Management Permit (if applicable)
- Sign the Permit Terms and Conditions
- Provide Erosion & Sediment Control Plan approval from Conversation District (if applicable)
- Asbestos Abatement and Demolition/Renovation Notification Forms must be completed and submitted to PA DEP for all commercial demolition/renovation projects.

**Additional information/documents may be required depending on the type of construction.**

**CALL BEFORE YOU DIG, MAKE A PA ONE CALL - Dial 811**

# ZONING/UNIFORM CONSTRUCTION BUILDING PERMIT APPLICATION

Please provide a plot plan showing all structures and distances to the property lines.  
Two (2) sets of building plans must be submitted with the application for Residential Projects.  
Three (3) sets of building plans must be submitted with the application for Commercial Projects.

County: \_\_\_\_\_ Municipality: \_\_\_\_\_

Site Address: \_\_\_\_\_

Property Tax ID #: \_\_\_\_\_

Owner/Applicant Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

E-Mail: \_\_\_\_\_

CALL ME WHEN PERMIT IS READY

Principal Contractor: \_\_\_\_\_ Phone #: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

E-Mail: \_\_\_\_\_ PA Contractor Registration #: \_\_\_\_\_

CALL ME WHEN PERMIT IS READY

Architect (if applicable): \_\_\_\_\_ Phone #: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

E-Mail: \_\_\_\_\_

## PROPERTY CHARACTERISTICS:

- Residential Property (Single-Family Dwelling, Two-Family Dwelling, Townhouse)  
 Commercial Property – Specific Use \_\_\_\_\_

Utilities: Water Service: Public / Private Sewer Service: Public / Private (Circle One)

Existing Impervious Area: \_\_\_\_\_ Sq. Ft. Total Earth Disturbance \_\_\_\_\_ Sq. Ft.

New Impervious Area created: \_\_\_\_\_ Sq. Ft.

**A Stormwater Management Permit may be required for the new impervious area added.**

Is the property located in a Floodplain or Flood Hazard Area? YES / NO

Is the property located in a Historical District? YES / NO

Is the property enrolled in the Agricultural Conservation Easement (ACE) program? YES / NO

## TYPE OF WORK: (check all that apply)

- New Building     Addition     Renovation     Repair     Demolition     Sign  
 Deck/Patio     Swimming Pool     Accessory Structure     Fence     Other \_\_\_\_\_

Describe the proposed work \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Size of Structure: \_\_\_\_\_ Height of Structure: \_\_\_\_\_

**ESTIMATED COST:** (Reasonable fair market value) \$ \_\_\_\_\_ (**REQUIRED**)

## - OFFICIAL USE ONLY -

TOWNSHIP APPLICATION FEE PAID: Check # \_\_\_\_\_ Amount \$ \_\_\_\_\_ Date: \_\_\_\_\_

**PERMIT TERMS AND CONDITIONS**

The Owner/Applicant certifies that all information on this application is correct and the work will be completed in accordance with the approved construction documents, PA Act 45 of 1999 (Uniform Construction Code), Act 247 of 1968 as amended (Municipalities Planning Code), and any additional approved building code requirements adopted by the Municipality. The property Owner/Applicant assumes the responsibility of locating all property lines, setback lines, easements, rights-of-way and flood areas. Issuance of a permit and approval of construction documents shall not be construed as authority to violate, cancel or set aside any provisions of the codes or ordinances of the Municipality or any other governing body. The Owner/Applicant certifies he/she understands all the applicable codes, ordinances and regulations and is responsible for all review costs incurred for the proposed project.

Building and zoning permits are valid for one year from the date of issue. Construction must be started within 180 days of issue. Permits may be extended only once by making application and paying an extension fee prior to expiration of the original permit.

In consideration of the issuance of a permit to the undersigned the Owner/Applicant acknowledges that, in reviewing plans and specifications, in issuing permits, and in periodically inspecting work of the Owner/Applicant, employees of The Municipality and LTL Consultants, Ltd. are only performing their duties to require compliance with the minimum requirements of the applicable Ordinances of The Municipality pursuant to the policy power of The Municipality and are not warranting to the Owner/Applicant or to any third party the quality or adequacy of the design, engineering or construction work of the Owner/Applicant. Owner/Applicant further acknowledges that it will not be possible for The Municipality or LTL Consultants, Ltd. to review every aspect of Owner/Applicant’s design and engineering or to inspect every aspect of Owner/Applicant’s construction work. Accordingly, neither The Municipality, LTL Consultants, Ltd. nor any of its elected or appointed officials or employees shall have any liability to the Owner/Applicant for defects or shortcomings in such design, engineering or construction work, even if it is alleged that such defects or shortcomings should have been discovered during The Municipality’s or LTL Consultants review or periodic inspection.

Furthermore, the Owner/Applicant agrees to defend, hold harmless and indemnify LTL Consultants, Ltd, The Municipality, its’ elected and appointed officials and employees from and against any and all claims, demands, actions, and causes of action of any one or more third parties arising out of or relating to The Municipality’s or LTL Consultants, Ltd review or periodic inspection of the Owner/Applicant’s design, engineering or construction work, or issuance of a permit or permits, or arising out of or relating to the design, engineering or construction work done by Owner/Applicant pursuant to such permit or permits. All references in these Terms and Conditions is to Owner/Applicant’s employees, agents, independent contractors, subcontractors or any other person or entities performing work pursuant to the issuance of the building or grading permit by The Municipality.

Application for a permit shall be made by the Owner of the building or structure, and agent (if different than the owner).

I certify the Municipal Code Administrator or LTL Consultants; Ltd. shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit.

\_\_\_\_\_  
Signature of Property Owner (required)

\_\_\_\_\_  
Signature of Authorized Agent (if different than Owner)

\_\_\_\_\_  
Printed Name of Property Owner

\_\_\_\_\_  
Print Name of Authorized Agent

\_\_\_\_\_  
Address

\_\_\_\_\_  
Date

\_\_\_\_\_  
Address

\_\_\_\_\_  
Date

Last Revised December 27, 2017

**REFER TO CHECKLIST TO DETERMINE ADDITIONAL APPLICATION REQUIREMENTS**

# PLUMBING PERMIT APPLICATION

County: \_\_\_\_\_ Municipality: \_\_\_\_\_  
Site Address: \_\_\_\_\_

Owner/Applicant Name: \_\_\_\_\_ Phone #: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
E-Mail: \_\_\_\_\_  
 CALL ME WHEN PERMIT IS READY

Principal Contractor: \_\_\_\_\_ Phone #: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
E-Mail: \_\_\_\_\_ PA Contractor Registration # \_\_\_\_\_  
 CALL ME WHEN PERMIT IS READY

## PROPERTY CHARACTERISTICS:

- Residential Property (Single-Family Dwelling, Two-Family Dwelling, Townhouse)  
 Commercial Property – Specific Use \_\_\_\_\_

## TYPE OF WORK:

- New Building  
 Addition  
 Renovation  
 Repair  
 Sewer Lateral  
 Water Lateral  
 Other \_\_\_\_\_

Description of work: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Estimated Cost** (*Reasonable fair market value*) \$ \_\_\_\_\_

I hereby certify that the information hereon and herewith is true and correct to the best of my knowledge, and furthermore the property owner has authorized the work.

**I certify the code administrator or the code administrator's authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit.**

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# ELECTRICAL PERMIT APPLICATION

County: \_\_\_\_\_ Municipality: \_\_\_\_\_  
Site Address: \_\_\_\_\_

Owner/Applicant Name: \_\_\_\_\_ Phone #: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
E-Mail: \_\_\_\_\_  
 CALL ME WHEN PERMIT IS READY

Principal Contractor: \_\_\_\_\_ Phone #: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
E-Mail: \_\_\_\_\_ PA Contractor Registration # \_\_\_\_\_  
 CALL ME WHEN PERMIT IS READY

## PROPERTY CHARACTERISTICS:

- Residential Property (Single-Family Dwelling, Two-Family Dwelling, Townhouse)  
 Commercial Property – Specific Use \_\_\_\_\_  
Name of Electric Company \_\_\_\_\_

## TYPE OF WORK:

- New Building     Addition     Renovation     Repair  
 Service (Size: \_\_\_\_\_ Electrical Job # \_\_\_\_\_)  
 Generator (Size \_\_\_\_\_)  
 Other \_\_\_\_\_

Amps \_\_\_\_\_ Phase \_\_\_\_\_ Voltage \_\_\_\_\_     Overhead     Underground

Description of work: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Estimated Cost** (*Reasonable fair market value*) \$ \_\_\_\_\_

I hereby certify that the information hereon and herewith is true and correct to the best of my knowledge, and furthermore the property owner has authorized the work.

**I certify the code administrator or the code administrator's authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit.**

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# MECHANICAL PERMIT APPLICATION

County: \_\_\_\_\_ Municipality: \_\_\_\_\_

Site Address: \_\_\_\_\_

Owner/Applicant Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

E-Mail: \_\_\_\_\_

CALL ME WHEN PERMIT IS READY

Principal Contractor: \_\_\_\_\_ Phone #: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

E-Mail: \_\_\_\_\_ PA Contractor Registration # \_\_\_\_\_

CALL ME WHEN PERMIT IS READY

## PROPERTY CHARACTERISTICS:

Residential Property (Single-Family Dwelling, Two-Family Dwelling, Townhouse)

Commercial Property – Specific Use \_\_\_\_\_

## TYPE OF WORK:

New Building

Addition

Renovation

Repair

Other \_\_\_\_\_

Chimney (Type) \_\_\_\_\_

FUEL TYPE:  Natural Gas  LPG  Fuel Oil  Solid Fuel  Electric  Other \_\_\_\_\_

Description of work: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Please provide manufacturers' installation guide with the application.**

**Estimated Cost** (*Reasonable fair market value*) \$ \_\_\_\_\_

I hereby certify that the information hereon and herewith is true and correct to the best of my knowledge, and furthermore the property owner has authorized the work.

**I certify the code administrator or the code administrator's authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit.**

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_



# DRIVEWAY PERMIT APPLICATION

County: \_\_\_\_\_ Municipality: \_\_\_\_\_

Site Address: \_\_\_\_\_

Owner/Applicant Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

E-Mail: \_\_\_\_\_

CALL ME WHEN PERMIT IS READY

Principal Contractor: \_\_\_\_\_ Phone #: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

E-Mail: \_\_\_\_\_ PA Contractor Registration # \_\_\_\_\_

CALL ME WHEN PERMIT IS READY

Location of Driveway: \_\_\_\_\_

Statement of materials and Construction to be Used:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

***A Sketch of the Driveway must be provided  
% Slope and distances must be indicated on the plan***

I hereby certify that the information hereon and herewith is true and correct to the best of my knowledge, and furthermore the property owner has authorized the work.

**I certify the code administrator or the code administrator's authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit.**

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# WELL PERMIT APPLICATION

County: _____ Municipality: _____
Site Address: _____
Owner/Applicant Name: _____ Phone #: _____
Mailing Address: _____
E-Mail: _____
<input type="checkbox"/> CALL ME WHEN PERMIT IS READY
Principal Contractor: _____ Phone #: _____
Mailing Address: _____
E-Mail: _____ PA Contractor Registration # _____
<input type="checkbox"/> CALL ME WHEN PERMIT IS READY
Location of Well: _____

**Water must be tested to prove potability. Additional testing requirements may be required per Well Ordinance. Check with your Township for requirements.**

I hereby certify that the information hereon and herewith is true and correct to the best of my knowledge, and furthermore the property owner has authorized the work.

**I certify the code administrator or the code administrator's authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit.**

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Workers' Compensation Insurance Coverage Information

- A. Is the applicant a contractor within the meaning of the Pennsylvania Worker's Compensation Law?  
 Yes  No

If the answer is "yes", complete **Sections B, C, D, and E** below as appropriate.  
If the answer is "no", complete **Section E**.

### B. Insurance Information

Name of Applicant \_\_\_\_\_

Federal or State Employer Identification Number \_\_\_\_\_

Applicant is a qualified self-insurer for workers' compensation.

- Check if Certificate is attached.

Name of Workers' Compensation Insurer \_\_\_\_\_

Workers' Compensation Insurance Policy Number \_\_\_\_\_

- Check if Certificate is attached.

Policy Expiration Date \_\_\_\_\_

- C. Is the applicant using any subcontractor(s) on this project?  Yes  No

If the answer is "yes", the applicant hereby certifies that any and all subcontractors have presented proof to the applicant of insurance under the Pennsylvania Workers' Compensation Act.

- D. Exemption: Complete **Section D** if the applicant is a contractor claiming exemption from providing workers' compensation insurance.

The undersigned swears or affirms that he/she is not required to provide worker's compensation insurance under the provisions of the Pennsylvania Worker's Compensation Law for one of the following reasons, as indicated:

- Contractor with no employees. Contractor prohibited by law from employing any individual to perform work pursuant to this building permit unless contractor provides proof of insurance to the Township.
- Religious exemption under the Workers' Compensation Law.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

\_\_\_\_\_  
Signature of Notary Public

My Commission expires: \_\_\_\_\_

(Seal)

### E. Signature required for all applicants

Signature of Applicant \_\_\_\_\_

Address \_\_\_\_\_

County \_\_\_\_\_ Municipality of \_\_\_\_\_

NAME: \_\_\_\_\_

LOCATION: \_\_\_\_\_

**PLOT PLAN / SKETCH PLAN AREA**

A large grid area for drawing a plot plan or sketch plan. The grid consists of 20 columns and 20 rows of small squares, providing a structured space for hand-drawn architectural plans.

The Plot Plan must show size and location of all structures and wells on the property and the distance to property lines (hand drawn is acceptable)

Is your drawing to scale Y / N? If yes, what is the scale? \_\_\_\_\_

# Stormwater Best Management Practices Worksheets

Stormwater Management for Minor Land Disturbance Activities addresses the intent of the SWM Ordinance by managing the runoff through infiltration facilities. To determine the size of infiltration facilities required for a site for a Minor Land Disturbance Activity, utilize a factor 0.23 times the impervious area. This approximates the net 2-year increase.

<b>STEP ONE: DETERMINE REQUIRED VOLUME</b>	
<b>TOTAL AREA of IMPERVIOUS COVER</b> Includes all areas of new building, paving, concrete and compacted gravel that are part of the <b>proposed</b> work. (Except pervious paver blocks)	<b>Sq. ft.</b>
Multiply by 0.23	<b>x 0.23</b>
<b>TOTAL WATER QUALITY VOLUME REQUIRED (WQ<sub>v</sub>)</b>	<b>Cu. ft.</b>

Details of the BMPs listed below are provided as part of this Appendix. For additional information on how these BMPs function and ideas of other BMPs refer to the “Pennsylvania Stormwater Best Management Practices Manual” latest edition prepared by the DEP.

<b>STEP TWO: SELECT BMPs TO BE UTILIZED</b>	
<b>BMP NAME</b>	(How Many)
1. Infiltration Basin	
2. Infiltration Bed	
3. Infiltration Trench	
4. Other*	
<b>TOTAL</b>	

\* As approved by the Township Engineer. Provide additional information as needed.

The first three BMPs listed are Infiltration BMPs and as such should be located on the site in areas with the most suitable soil. Areas of wet or poorly drained soils should be avoided.

Infiltration BMPs shall also be located with the following setbacks:

- Ten (10) feet down gradient from a building basement
- One hundred (100) feet up gradient from a building basement
- Ten (10) feet from property lines
- One Hundred (100) feet from wells
- Fifty (50) feet from septic system drain fields

Recognizing that Minor Land Disturbance Activities often cannot meet the setback requirements due to the size of the proposed work area, consideration will be made to reduce the setbacks provided.

**BMP Installation Notes:**

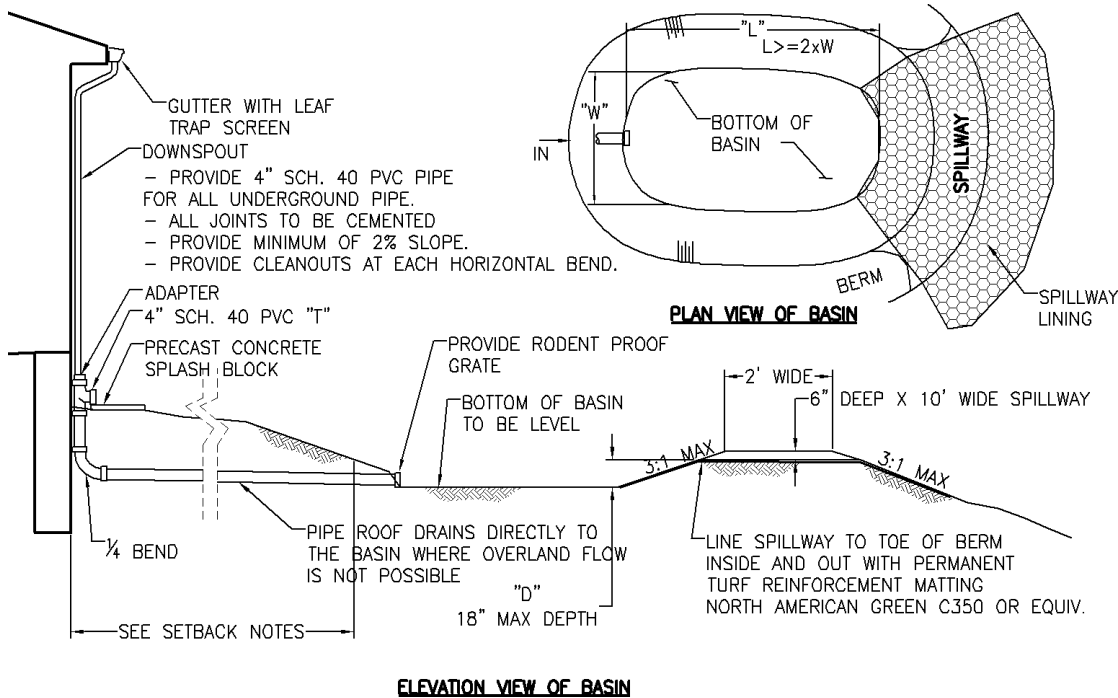
1. BMPs shall be protected during construction to prevent sediment-laden water from entering the facility.
2. Excavation of the BMPs shall be conducted in a manner that will not compact the bottom of the facility.
3. The bottom of the facility shall be scarified immediately prior to the placement of the bottom layer of geotextile for subsurface structures or the topsoil placement for above ground structures.
4. Geotextile shall be placed in accordance with the manufacturer's specifications. Seams shall be overlapped a minimum of 16 inches.
5. The area of the BMP shall be fenced off during construction. Construction equipment shall be prohibited from entering the area to avoid soil compaction.

<b>STEP THREE: DETERMINE VOLUME PROVIDED</b>	
<b>BMP (See details for volume calculations)</b>	<b>Volume (cu. ft.)</b>
1. Infiltration Basin	
2. Infiltration Bed	
3. Infiltration Trench	
4. Other*	
<b>TOTAL (must be greater than WQ<sub>v</sub> in Step One)</b>	

\* As approved by the Township Engineer. Provide additional information as needed.

## **SWM BMP #1 –INFILTRATION BASIN**

An Infiltration Basin provides an aboveground area for water to be stored and infiltrate into the ground. Roof Drains and overland runoff are directed into an aboveground basin to infiltrate. A spillway is provided to release the larger storm volumes. The spillway should be located to avoid any down slope problems when water is flowing over the spillway. The spillway shall be lined with a permanent erosion mat to prevent deterioration. The spillway should be located as far away as possible from any inflow pipes to promote infiltration and settling of runoff contaminants. The basin shall also be planted with vegetation that is tolerant of the wet conditions that will occur during infiltration. The depth of the basin may be increased with the approval of the Township Engineer.

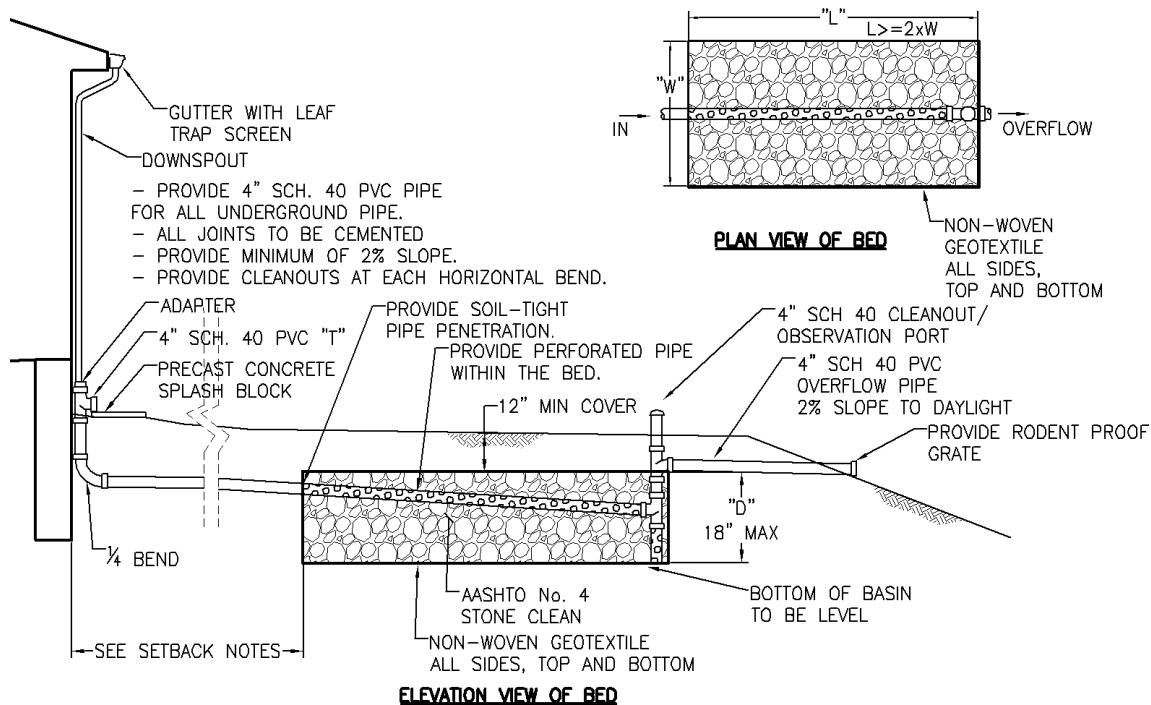


Determination of Water Quality Volume provided:

1	Bottom Area – for rectangular basins use L x W, estimate for irregular shaped Basin	Sq. ft.
2	Depth of Basin = D	Ft.
3	Basic Volume = L x W x D (Line 1 x Line 2)	Cu. Ft.
4	Side Slope Factor “Z” – Use 3 for 3:1 slope, 4 for 4:1 slope, etc	
5	Approx. Additional Volume = (L+W) x Z x D x D	Cu. Ft.
6	<b>TOTAL VOLUME (WQ<sub>v</sub>)</b> (Line 3 + Line 5) (Use this number in Step Three)	Cu. Ft.

## **SWM BMP #2 –INFILTRATION BED**

An infiltration bed can be used where surface runoff is not to be captured. Roof Drains from the proposed structure are piped into an underground basin to infiltrate into the ground. An overflow pipe is provided to release the larger storm volumes. A cleanout is provided to facilitate maintenance and provide an inspection port for the bed. The pipe within the bed is perforated and should be run through the basin to the fullest extent to promote infiltration and distribution of the runoff. The soil over the basin shall also be planted with vegetation that will not interfere with the operation of the bed. The depth of the bed may be increased with the approval of the Township Engineer.



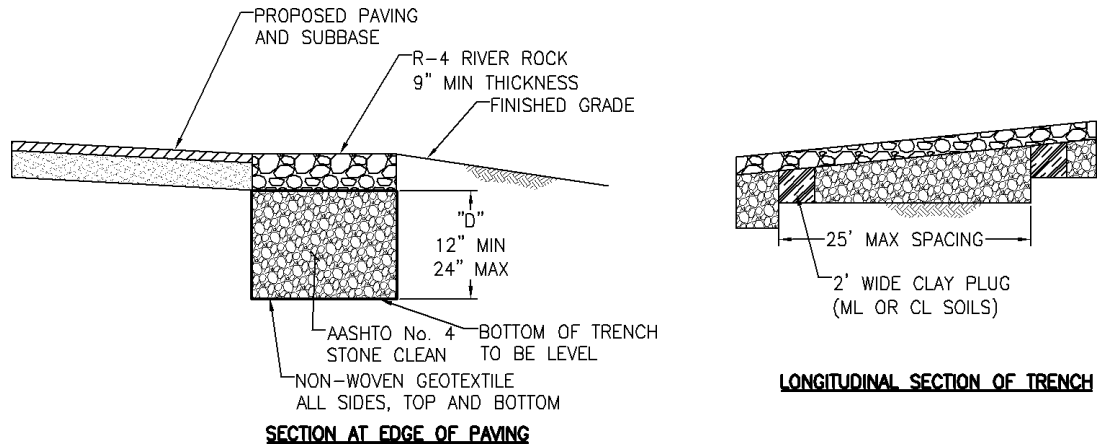
Determination of Water Quality Volume provided:

1	Bottom Area – for rectangular basins use L x W	Sq. ft.
2	Depth of Basin = D	Ft.
3	Basic Volume = L x W x D (Line 1 x Line 2)	Cu. Ft.
4	Actual Void Volume in Stone Bed ( $WQ_v$ ) = 0.4 x Line 3 (Use this number in Step Three)	Cu. Ft.



## **SWM BMP #3 – INFILTRATION TRENCH**

Infiltration trenches are utilized along the perimeter of impervious surfaces to collect, store and infiltrate runoff. River rock will be placed on the bed to allow the runoff to enter the trench; alternately the bed may utilize a perforated pipe with inlets to get the runoff into the trench. The trench is constructed as a terraced system with clay dikes to promote infiltration. The depth of the trench may be increased with the approval of the Township Engineer. Pipe can be utilized within the trench to increase the available storage volume. Because the trench is installed along paved area that needs to be compacted during construction, extra attention needs to be paid to avoid compaction in the area of the trench or loosen the material under the trench prior to installation.



Determination of Water Quality Volume provided:

1	Bottom Area = Length of Trench x Width	Sq. ft.
2	Depth of Basin = D	Ft.
3	Basic Volume = L x W x D (Line 1 x Line 2)	Cu. Ft.
4	Actual Void Volume in Stone Bed ( <b>WQ<sub>v</sub></b> ) = 0.4 x Line 3 (Use this number in Step Three)	Cu. Ft.

If perforated pipe is used in the bed, adjust volume accordingly.