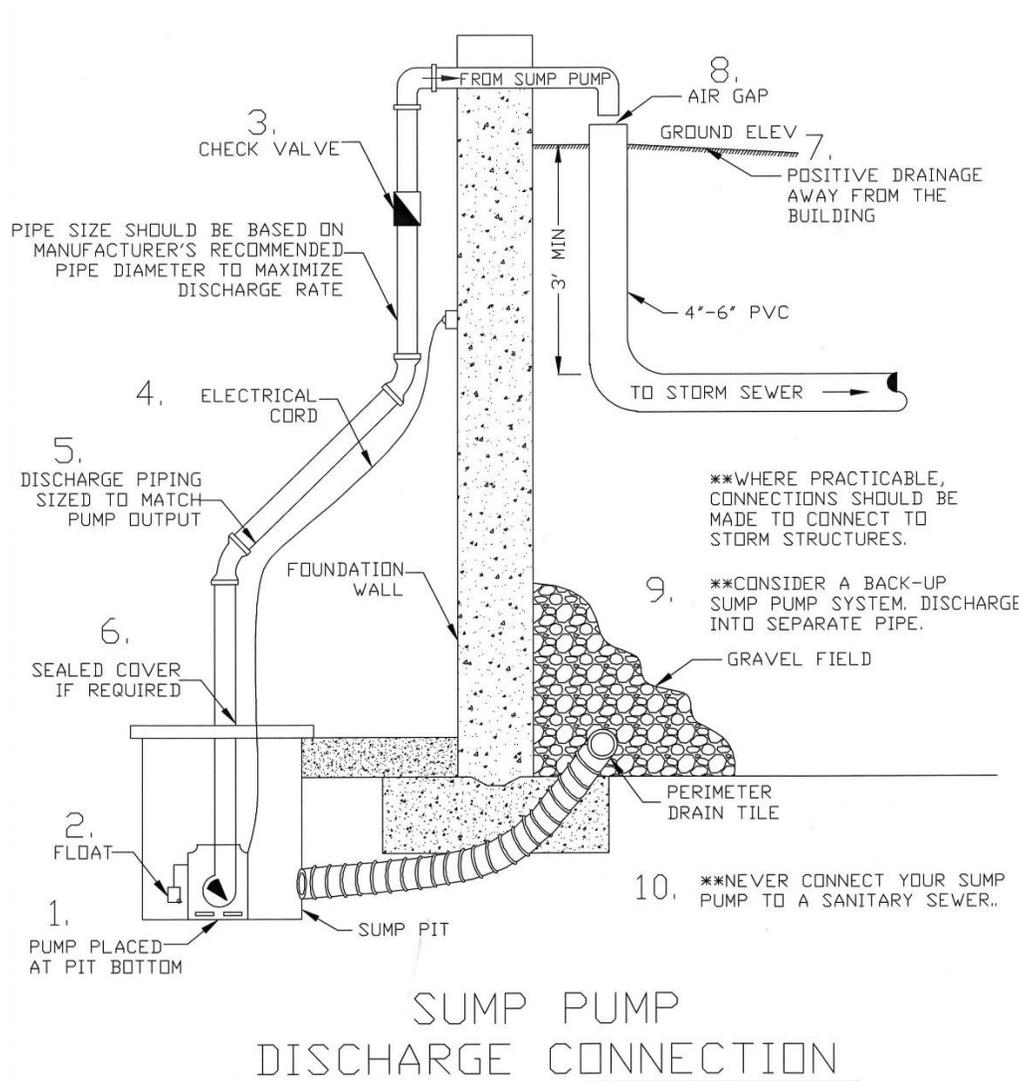
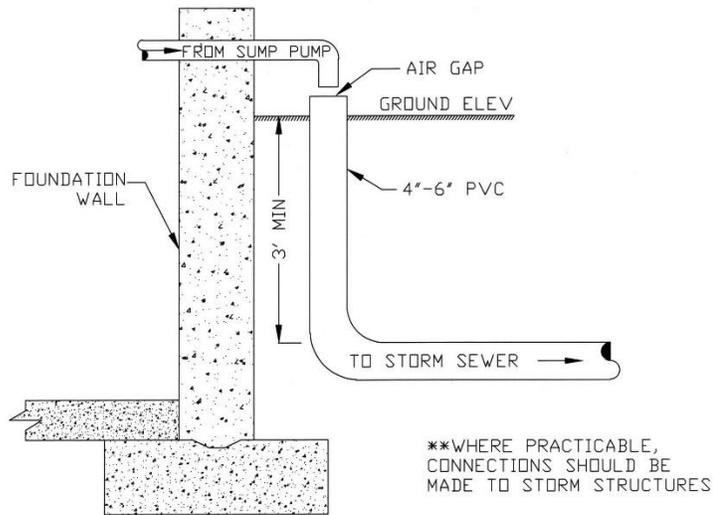


## Winterizing Your Sump Pump, Gutters & Downspouts

As cold weather approaches, now is a good time to make sure your sump pump, gutters and downspout discharge are protected from freezing and maintaining proper drainage around your house. The diagram below is a schematic detail of the sump pump components. By checking to see if your sump pump components as shown below are in working order, will ensure the water will be discharged out and away from the home and not back up into the crawl space or basement.



If the sump pump discharge is connected to a pipe buried underground, an air gap can prevent the discharge pipe from freezing or blocking flow as shown in the detail below:



## SUMP PUMP DISCHARGE CONNECTION

Make sure your drainage discharge pipe does not freeze. If the sump pump discharge is running through a shallow pipe underground or a pipe laying on top of the ground, an Electric Heat Cable can help prevent freezing by wrapping around or placing inside the pipe. These can be found at a local hardware store or online and come in various lengths. The one shown in the picture below is 30 feet in length.



Here are some maintenance tips for winterizing your downspouts and gutters:

- Inspect the grade at the foundation near the downspout for evidence of erosion. The grade around the home should slope 1" per foot for a minimum of 6' away from the home. If there is noticeable erosion, and the grade is sloping back toward the home, water isn't being directed away. Depending on what directs water away from the home at the base of the downspout – below-grade drainage pipe, downspout extension, or splash block – evidence of erosion near the foundation signals a problem.
- Below-grade drainage pipes can become clogged with debris, causing water to back up. When this occurs, the debris needs to be removed with a drain auger, similar to unclogging the downspout.
- If your current downspout extensions have been damaged or disfigured, they should be replaced. **Splash blocks are required at the bottom of downspouts and sump pumps that drain onto the ground.**
- Although it is necessary to perform this basic gutter and downspout maintenance twice a year, keeping an eye on your gutters and downspouts during the year, specifically during times of heavy rain and snow, isn't a bad idea either. Overflows, leaks, and large icicles are all signs that your gutter may not be functioning properly and that some general maintenance is required. Reducing, but not eliminating, gutter and downspout maintenance is possible.
- Cutting back tree limbs that hang over the gutter will reduce leaves and debris. If you live in a heavily wooded area or have below-grade drainage pipe, you might consider installing wire screening, gutter shields, foam filters, or a strainer over the top of the gutter to keep debris from clogging the system.
- Given the damage that water can do to your home, you will derive significant value and importance in maintaining your gutters and downspouts. Properly maintained, they will keep water away from your home, reduce grade erosion, and prevent water from leaking into basements and crawl spaces. Avoid unnecessary, costly repairs in the future and make the effort to put gutter and downspout maintenance on your list of things to do this spring and fall.

Reference websites for additional information:

<https://cincygutterboys.com/gutter-cleaning-101-guide-homeowners/>

<https://www.centralbayroofing.com/gutter-maintenance-tips-for-the-winter-months/>

<https://www.americanhillcountrygutters.com/how-to-keep-your-gutters-from-freezing/>

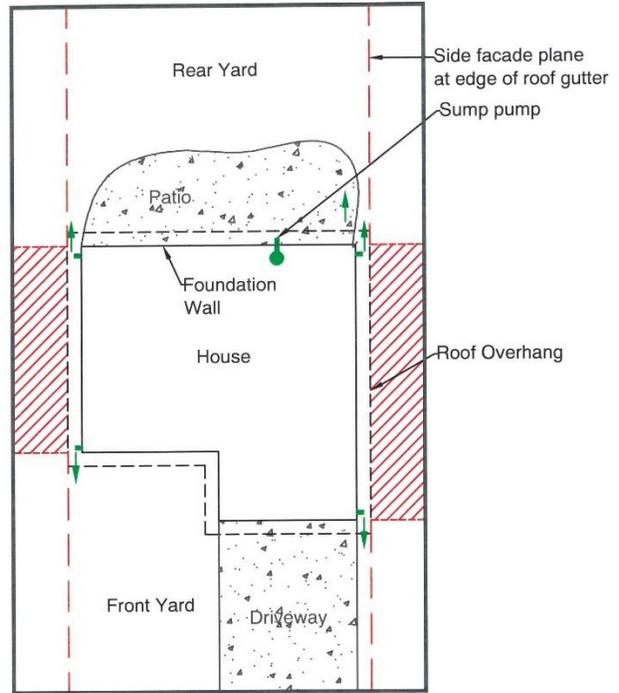
Keep all sump pump and downspout discharge at least 20' from sidewalks and not pointing at other impervious areas of travel to prevent icing and slippery conditions. See Standard Village Handout below:

Recommended Standards

1. Downspout drainage should be as close to the center of the front or rear facade of the house, within 3 feet of the foundation, projected away from the foundation perpendicular to the front or rear wall of the house, and not projecting to any yard beyond the side or side facade plane at edge of roof gutter of the house.
2. Downspout water must flow away from adjacent side lots so that the water will not empty onto adjacent properties.
3. Sump pump discharge is to flow to the front or the rear yard, and extending not more than 25% of the distance between the building and the nearest adjacent property boundary.
4. Downspouts should discharge onto the ground. Splash blocks are required at the bottom of downspouts.
5. Downspouts or sump pumps shall not be connected to the sanitary sewer.
6. Downspouts and sump pumps should drain onto 20 feet of pervious ground surface before leaving the site, unless otherwise mitigated.
7. Downspouts or sump pumps can extend to the outermost edge of a patio into a rear yard provided:
  - a. the terminus of the extension is not more that 3 feet beyond the patio, and
  - b. the extension away from the building does not exceed more than 25% of the distance between the building and the property boundary.

LEGEND OF SYMBOLS

-  Downspout
-  Direction of Flow
-  Sump Pump
-  Water must flow to front or rear yards from this area, not onto neighboring properties



PREPARED BY:  VILLAGE OF BLOOMINGDALE 201 S. Bloomingdale Road Bloomingdale, IL 60108 (630) 893-7000	PROJECT NAME: PRIVATE STORMWATER DISCHARGE <b>FOR SUMP PUMPS AND DOWNSPOUTS</b>	DATE: 6/15/2016 SCALE: N.T.S. DRAWN BY: 	REVISIONS 1. 12/3/2018 rfb 2. _____ 3. _____	SHEET <b>1</b>
		APPROVED BY: _____	4. _____ 5. _____ 6. _____	