

# Downspout Disconnection Training Presentation



Presented by  
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# Introduction

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- Why do you need to disconnect the downspouts from the sewer system?
- How to disconnect downspouts that are connected to the sewer system.
- This training will enable you to disconnect your downspout saving significant labor cost.
- Most homeowners can complete a simple disconnection in less than 15 minutes.
- What is eligible for reimbursement.

# Why Do You Need to Disconnect Your Downspout?



- Redirecting roof rain water will result in about 12% reduction of water being handled by the sewer system. Thereby reducing flooding.
- It will reduce the amount of polluted rain water that enters our local waterways..
- Roof rain water should be conveyed and kept on the property that it is generated from.
- The Village ordinance requires it.
- It's just the right thing to do!

# Training Outline



- Lesson 1: Downspout Disconnection
- Lesson 2: Connecting Elbows and Extension
- Lesson 3: Capping or Plugging Drain Tiles



# Lesson 1: Objectives

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At the end of this lesson you will be able to:

- Determine how much landscape you need for draining your downspouts.
- Measure existing items for purchasing required materials.
- Determine the correct extension and elbow to purchase.
- Cut downspout.
- Disconnect downspout and prep for elbow.

# Landscaped Area Needed for Draining Gutters



- Make sure you have enough landscaped area for rain to soak safely into the ground.
- The ground area must be at least 10% of the roof area that drains to the disconnected downspout.
- For example, to drain 300 square feet of rooftop, there should be at least 30 square feet of landscape.
- Roof Sizing Landscaped area factor area size.
- $300 \text{ sq. ft.} \times 10\% = 30 \text{ sq. ft. (or } 5' \times 6')$

# Safety Considerations

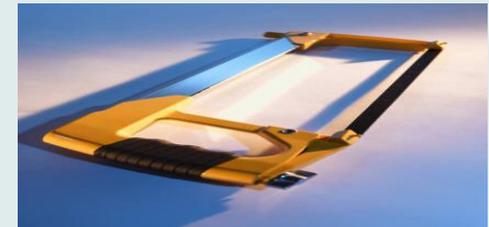


- **Extend** with an extension piece that will discharge and convey water away from structures.
- **Property lines:** Keep the end of your downspout extension at least 5 feet from your neighbors' property line and 10 feet from the public sidewalk. You may need more room if your yard slopes toward your neighbor or the sidewalk.
- **Other Hazards:** Do not place extensions across driveways, entry doors, steps or other areas that may be subject to tripping.

# Lesson 1: Downspout Disconnection



- Tools needed. Drill or Screwdriver, Crimpers or Needle-nose Pliers Hack saw, Trowel and Measuring tape.
- Measure downspout to purchase correct size extension and elbow.
- Use pencil to mark the position you are going to cut downspout.



# Lesson 1: Continued

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- Use hacksaw to cut the downspout. Make sure to grip while cutting so that it does not fall away from wall.
- Do not cut completely through so that downspout does not fall into drain tile.
- Use crimpers or needle-nose pliers to crimp 4 corners of the end of the downspout so that it fits into elbow properly.
- Questions?

# Lesson 2: Objectives

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At the end of this lesson you will be able to:

- Attach elbow to downspout.
- Attach extension to elbow.
- Secure all connections.

# Lesson 2: Connecting elbows and extensions.



- Insert downspout into elbow.
- Use hand drill or screw driver to secure elbow with 2 sheet metal screws.
- Insert elbow into extension piece.
- Secure extension with 2 sheet metal screws.



# Lesson 2: Wrap-up

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- Make sure all attachments fit securely inside each connection so that no water drips from any connection points.
- Secure all connections with sheet metals screws that are no more than  $\frac{3}{4}$ " inches long .
- Place splash pads beneath the end of extension pieces where possible.
- Make sure extensions are directed onto your property and not toward your neighbors.

# Lesson 3: Objectives

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At the end of this lesson you will be able to:

- Determine the type of material drain tile is made of.
- Apply the proper solution for capping or plugging the drain tile.

# Lesson 3: Capping and plugging drain hole.



- Measure drain tile for proper sizing for cap purchase.
- Attach and secure cap.
- If old style clay drain tile fill with cement or specially made plug.



# Lesson 3: Wrap-up



- Attempt to match drain cap with color of downspout and extension.
- Secure drain cap with PVC cement.
- Clay drain hole should be filled with cement.



- Questions?

# Other Disconnection Options



## ● Rain Barrels

- 1) Rain barrels are available for purchase directly from the Metropolitan Water Reclamation District (MWRD) via their website [www.mwrdd.org](http://www.mwrdd.org).
- 2) Rain barrels must be maintained.
- 3) Water may be used to water lawn and plants.



## ● Rain Gardens

- 1) Qualifies for reimbursement up to \$400.
- 2) Minimum size is 6' by 8' or 48 square feet and 6" deep.
- 3) Must be maintained by homeowner a minimum of 10 years.
- 4) Consult with Nursery to determine which plants are best.



## ● Bio-Swales

Village will consider this option. Similar to rain garden more involved and can be costly. Must be maintained by homeowner for minimum of 10 years.



## ● Redirect Gutters

Can be costly. Consult with contractor experienced with installing gutters other aluminum products.



# Summary of Training



- Measure the downspout and sewer drain tile before purchasing materials.
- Secure and overlap all connections.
- Materials can be purchased at Home Depot, Menards, Lowes or Ace Hardware.
- YouTube Downspout Disconnection Videos & Rain Barrel installation Videos.



# What Qualifies for Reimbursement?



- Materials needed to complete this project that qualify for reimbursement include the following: extensions, elbows, caps, plugs, splash pads, screws, cement mix and adhesive.
- Disconnections that are completed where the qualified material cost is \$100 or less will receive full reimbursement and no Program Permit will be required.
- Projects over \$100 require a Program Permit.
- Rain gardens are eligible for reimbursement up to \$400. Bio-swales and other disconnections methods will be considered.
- All reimbursements require sewer disconnection. This includes free rain barrels.
- Reimbursement funds are limited. When the funds are exhausted you will be responsible for the entire cost of your disconnection.
- Tools are not eligible for reimbursement. (Loaner Tool Kits are available at Village Hall.)

# Assessment

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- Are tools eligible for reimbursement?
- What materials are needed for this project?
- What are the 2 primary sewer drain tile styles?

# Evaluation

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1. Do you understand why this is necessary?
2. Was this presentation helpful?
3. After viewing this presentation and video are you comfortable with completing this project?

# Questions or Assistance

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Downspout Disconnection Program

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