



Everything  
you need to  
plan your  
deer fence.

**PROJECT GUIDE**



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# Our Fence System

Our easy to install and maintain deer fence system for DIY homeowners consists of virtually invisible polypropylene, metal, or polypropylene and metal fence blended together that flexes on impact. The height of our deer fence varies from 6-ft to 9-ft. depending on the application and situation. The fence can be lipped in or out to keep pets in and/or deer out. Our fence is installed on black poly coated metal posts using our exclusive reverse sleeve method. Trees can be used as posts without damaging the tree. Posts are spaced 8-ft to 14-ft. apart. The fence is supported by a 2, 3 or 4-cable support system with a heavy duty bottom metal cable. Matching gates are available up to 16-ft. wide and are highly customizable.

## 9 FEATURES OF OUR FENCE SYSTEM



### 1/ FLEXES ON IMPACT

Poly fence is designed to flex on impact. If a deer happens to run into the fence, the fence springs back and doesn't dent. A metal deer fence installed using our reverse sleeve system will also flex on impact, though not as much as poly. Most of the flex comes from the post installation method. There is a slight space between the outside of the reverse sleeve and the inside of the fence post. This allows the post to shift on the sleeve if impacted.



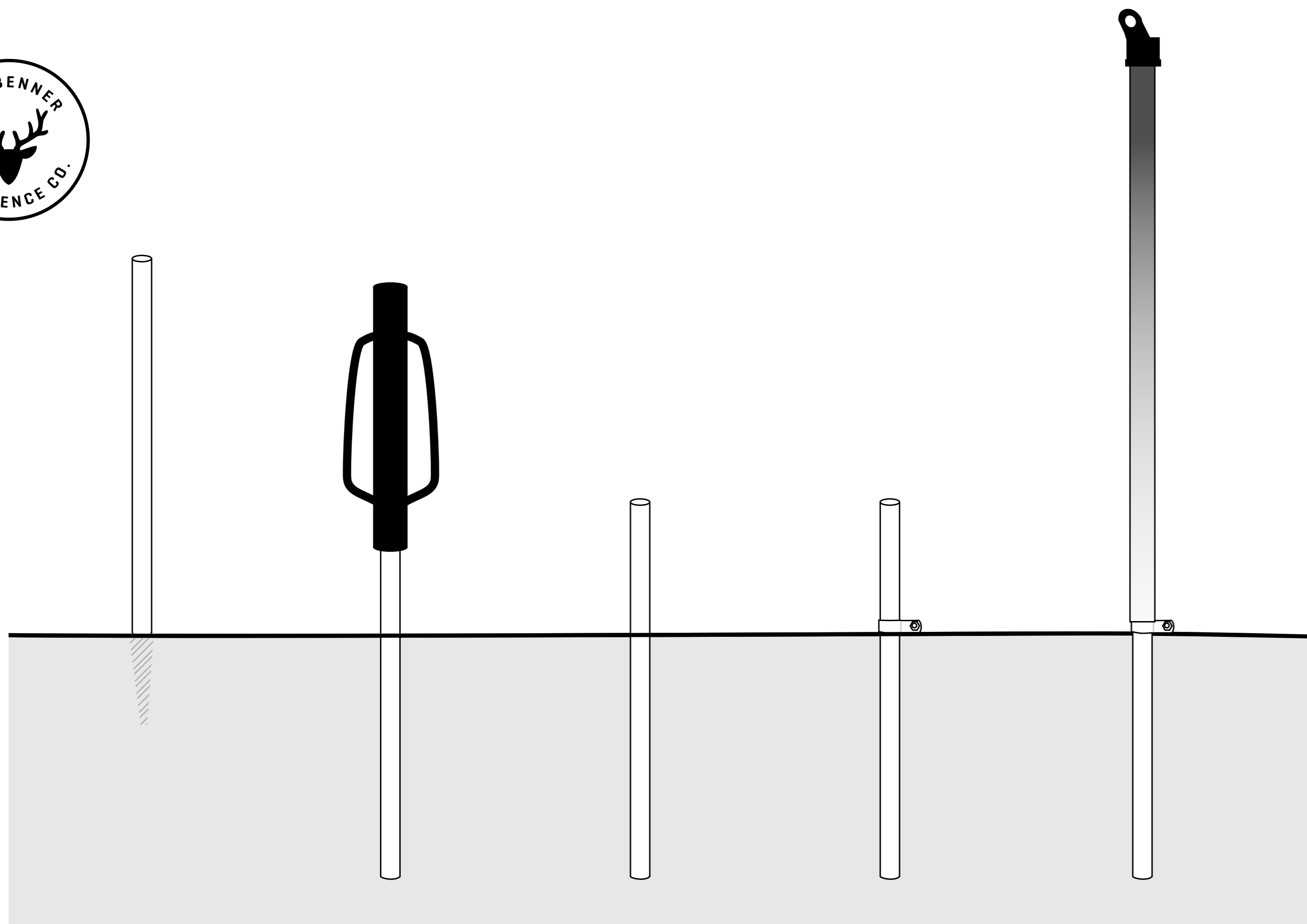
### 2/ VIRTUAL INVISIBLE

Generally deer fences that are installed in wooded or landscaped areas disappear into the surroundings and become barely noticeable. All of our fence, posts and accessories are black. The poly and metal fence has a mesh design that you can completely see through. For garden fences the invisibility allows you to see the plants inside the fenced area.



### 3/ EASY TO MAINTAIN

All of our fence systems require little or no maintenance. Basic maintenance includes tightening cables, replacing cable ties (after several years in the sun, cable ties can become weak), adding hog ring clips every several years can help to maintain the overall tightness of the fence. Repairs from tree damage are relatively easy. The damaged section of fence can simply be replaced.



## 4 / THE REVERSE SLEEVE

Our exclusive reverse sleeve method makes installing your fence a breeze and eliminates problems with traditional ground sleeves. The reverse sleeve is a hollow, heavy gauge, galvanized metal pipe 5-ft to 6-ft in length that penetrates the ground with relative ease. A hand held post driver or an automatic gas powered driver (available in our online store or many local tool rental stores) is used to drive the sleeve about 3 feet into the ground. This eliminates the need to get on your hands and knees to pound a sleeve into the ground with a sledge hammer. Once the reverse sleeve is in the ground, a bottom brace band is fastened to the reverse sleeve at ground level. Then a black deer fence post is slid on top of the reverse sleeve. The posts will stay at a consistent height along your fence line.

### Benefits of the Reverse Sleeve Method

**LONG-LASTING** // The reverse sleeve doesn't rust out.

**EASY TO INSTALL** // The reverse sleeve is easy to install in various types of soil. The hollow thick walls can break through roots and packed rocks. Standing installation is easier and the angle in which the sleeves sets in the ground can be controlled.

**EASY TO MAINTAIN** // The reverse sleeve is malleable, so it can bend upon heavy impact from fallen trees or rutting deer. The sleeve generally bends at the ground level, leaving the post intact. The sleeve can then be bent back and straightened without needing to replace the sleeve or post.

**LARGE FULCRUM POINT** // If impact occurs from a startled deer or fallen tree limb, there is a 2-3 ft. fulcrum point at the bottom of the fence post. The sleeves serves as an additional post since it is inside the fence post, making the fence post that much stronger.



## 5/ THE CABLE SUPPORT SYSTEM

All of our fence systems have a minimum of 2-cables consisting of a top and bottom cable. The cables stretch the fence vertically while also supporting it horizontally. This keeps the fence taught so it doesn't bend or sag, providing a clean, formal appearance. If the fence is a poly/metal blend, our system uses a third cable to support the junction area of the two fences. For high deer traffic areas, additional cables can be added at the deer impact zone of the fence (4', 5' and 6').

## 6/ HIGHLY CUSTOMIZABLE GATES

In our store we have a large

selection of standard widths and heights of gates. In addition to those gates, we can customize to an exact measurements. Most gates can have additional supports and/or bracing added.

## 7/ USING TREES AS POSTS WITHOUT HURTING TREES

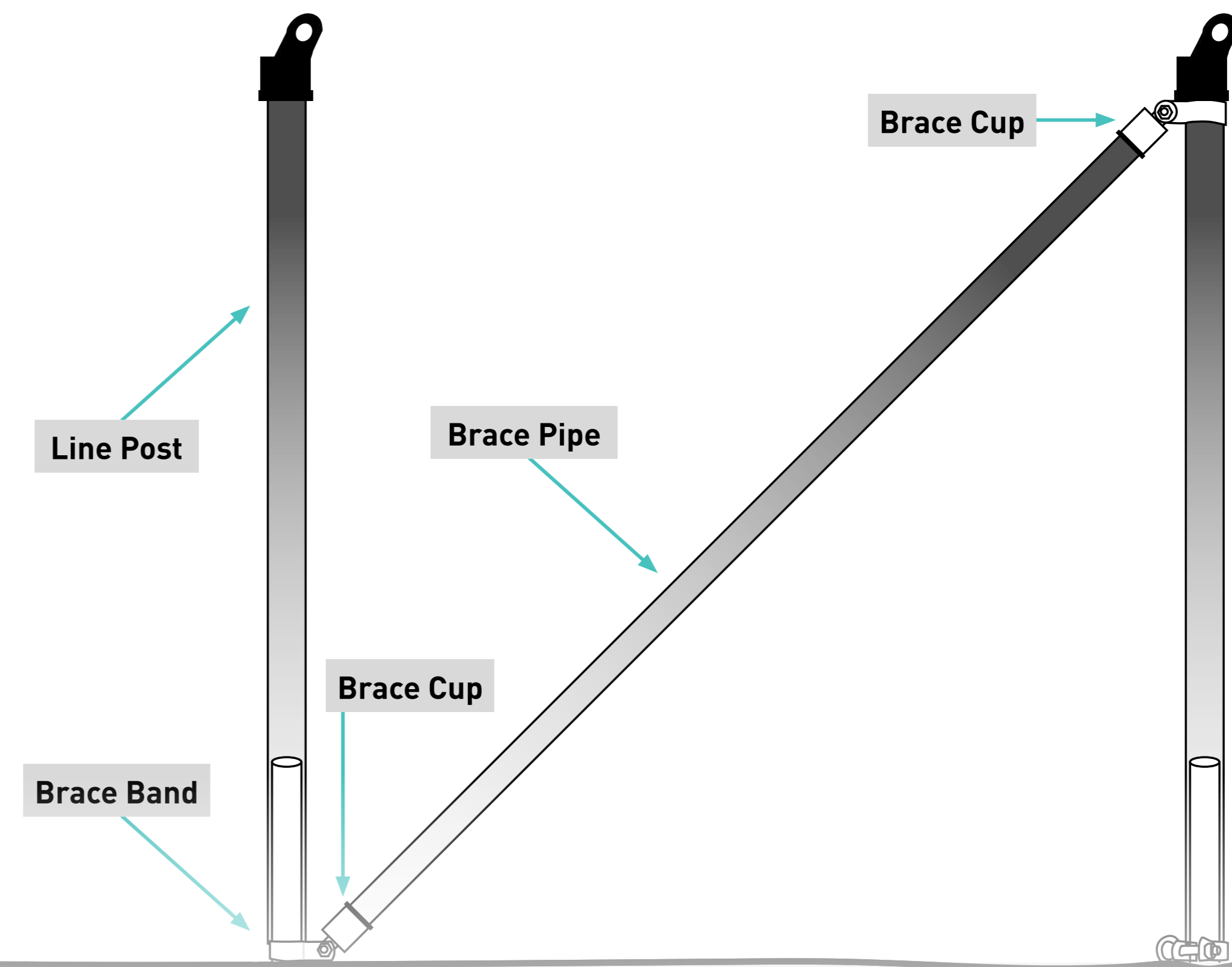
We safely attach a cable to the side of a tree to act as a post. Black eye-lag screws, found here, are used to fasten a cable vertically onto a tree. Depending on the number of horizontal cable supports used, the matching number of eye-lag screws are secured to the tree. The 3/8" x 4.5" eye lag screws are screwed approximately 2" into the tree, allowing the tree to grow without having a fence stapled directly to it.

## 9/ THE FENCE IS MALLEABLE

It can be lipped in or out along the bottom to keep pets in or deer out. To secure the fence to the ground, we recommend bending and/or lipping about 6" of the fence along the

bottom of the fence line. Bending the fence out prevents animals from being able to lift the fence and crawl under it. For deer out situations only, the fence can be lipped out towards the deer or rodents. For deer out/

dog in situations, the fence can be bent in towards the dogs and ground stakes can be added for additional security. The lipping combined with the bottom metal cable support makes for a virtually impenetrable fence.



## 8/ THE BRACING SYSTEM

All of the corner, end and gate posts include a superior bracing system, exclusive by the Benner Deer Fence Co. Each brace pipe is secured to the top of every corner, end and gate post, and the lower end is fastened to the bottom of the next line post. This prevents movement of the braced post and lengthens the life of the fence system. The immovable post also provides a great termination point for cables and fence because the post is secure and will not shift when tension is applied.



# Many Uses of Deer Fence

Deer fence has many uses beyond keeping deer out. Some of the most popular alternatives include: dog, pool, garden and cat fence.

## **Dog Fence**

An all metal fence or a blend of polypropylene and metal work to keep most\* dogs contained in an area. The reason the system is great for dogs is that they can't chew through it, they can't climb it and they can't go under it. An





all metal fence or a blend of poly fence with metal at the bottom provides a chew proof barrier. The fence flexes on impact, making it highly difficult to climb (unlike chain-link). The fence is malleable, allowing the fence to be installed lipped in and anchored to the ground with stakes. This installation method is highly recommended for dogs that like to dig.

*\* Please use common sense and consider your dogs breed and personality traits when determining what type of fence is best for your dog.*

### **Pool Fence**

We offer a 4-ft high, 1.5-inch x 4-inch mesh design welded wire metal fence that meets most\*\* townships requirements for pool code fencing. The fence can be used in a variety of ways. The

most popular use is for homeowners that are installing a deer fence and have a pool. The pool code fence can be used at the bottom of a deer fence system. The fence can also be used alone as a pool fence. It is an economical alternative to a more expensive aluminum or metal decorative fence. *\*\* Check with your local township on the specific requirements.*

### **Garden Fence**

An all metal fence or a blend of metal and polypropylene can be customized to fit any homeowners need. Metal fence alone or along the bottom of poly fence provides a chew-proof barriers for bunnies, ground hogs and other rodents.

### **Cat Fence**

Deer fence works to keep most cats contained in area. Much like dog fence, they can't chew





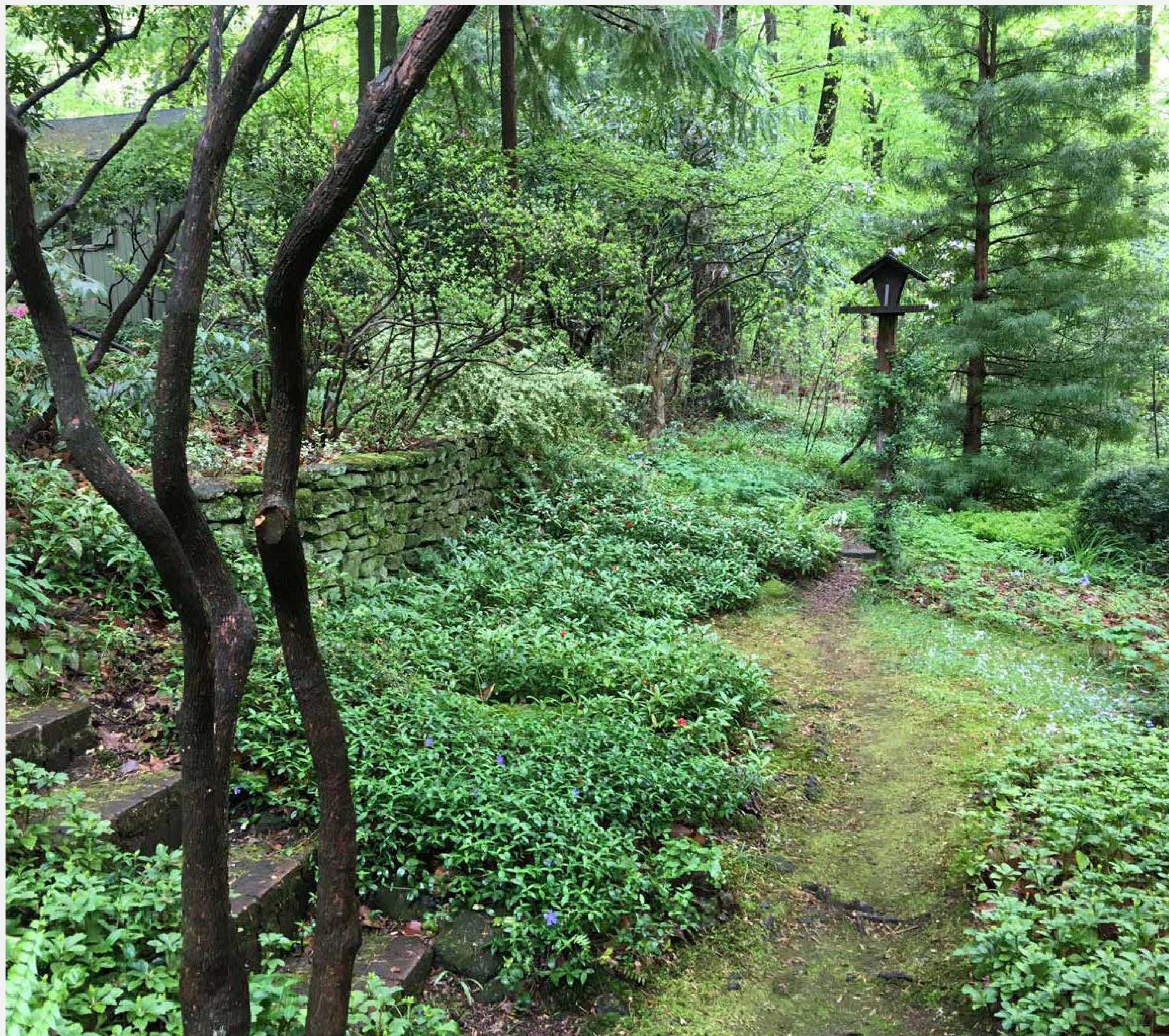
through it, they can't climb it and they can't go under it. In addition to these features, for highly energetic cats, an angled post extender can be installed at a 45-degree angle pointing inward to deter cats from climbing over the fence.

### **Temporary bed fencing**

Deer fence can be installed on removable posts using old style ground sleeves and be put up in the fall and taken down in the spring to protect an area of plants that need winter protection.

### **Netting**

Light duty poly deer fence can be laid down over ground covers and ornamental shrubs to protect them from leaf buildup. Once the leaves have fallen the fence can be rolled up and emptied into a leaf pile.







# Design Your Fence Layout

The first step in planning your fence project is designing the layout of the fence. This includes deciding where the fence should go, the location of the gates, marking the fence line and drawing a diagram.

## Design your fence line

- › Look for areas where there is minimal terrain changes.
- › Avoid 90-degree corners if possible—rounding corners makes for a stronger fence. (ignore this tip if you are looking for a more formal garden fence)
- › For wooded landscapes look for cleared areas when possible to minimize the amount of brush clearing.
- › Back yard and garden fences can use building structures (included your house) to complete the enclosure.
- › The best fence system is fully enclosed with no openings, including the driveway.
- › The fence can weave throughout trees.
- › Trees can be used in place of posts.
- › Do not use trees as end or corner posts. You can turn your fence or terminate your fence line at a tree, but you should install a post.



## Decide where the gates will go

- › Keep in mind the size of any equipment or machinery that will be brought into the enclosed area.
- › Access gates work best on level areas along the fence line.
- › Driveway gates should be approximately 2 feet wider than the driveway.
- › Driveway gates can be automated. We recommend and sell Mighty Mule automated gate systems.
- › An additional access gate can be added next to driveway gates for non-vehicle access. (Ideal for driveways with large, non-automated gates)

# 3

## Mark and measure your fence line

- › Mark your fence line using flags, spray paint or surveyor stakes.
- › Measure your fence line with a large open reel tape measure. Don't have a large enough tape measure? See *Measure by Walking* below to get a rough measurement.

### MEASURE BY WALKING

Walk your fence line using a natural stride. Count every step and use the formula below to calculate an approximate footage.

$$\begin{array}{ccc} \underline{\hspace{2cm}} & \times & 2.5 = \\ \text{\# of steps} & & \text{rough total} \\ & & \text{footage*} \end{array}$$

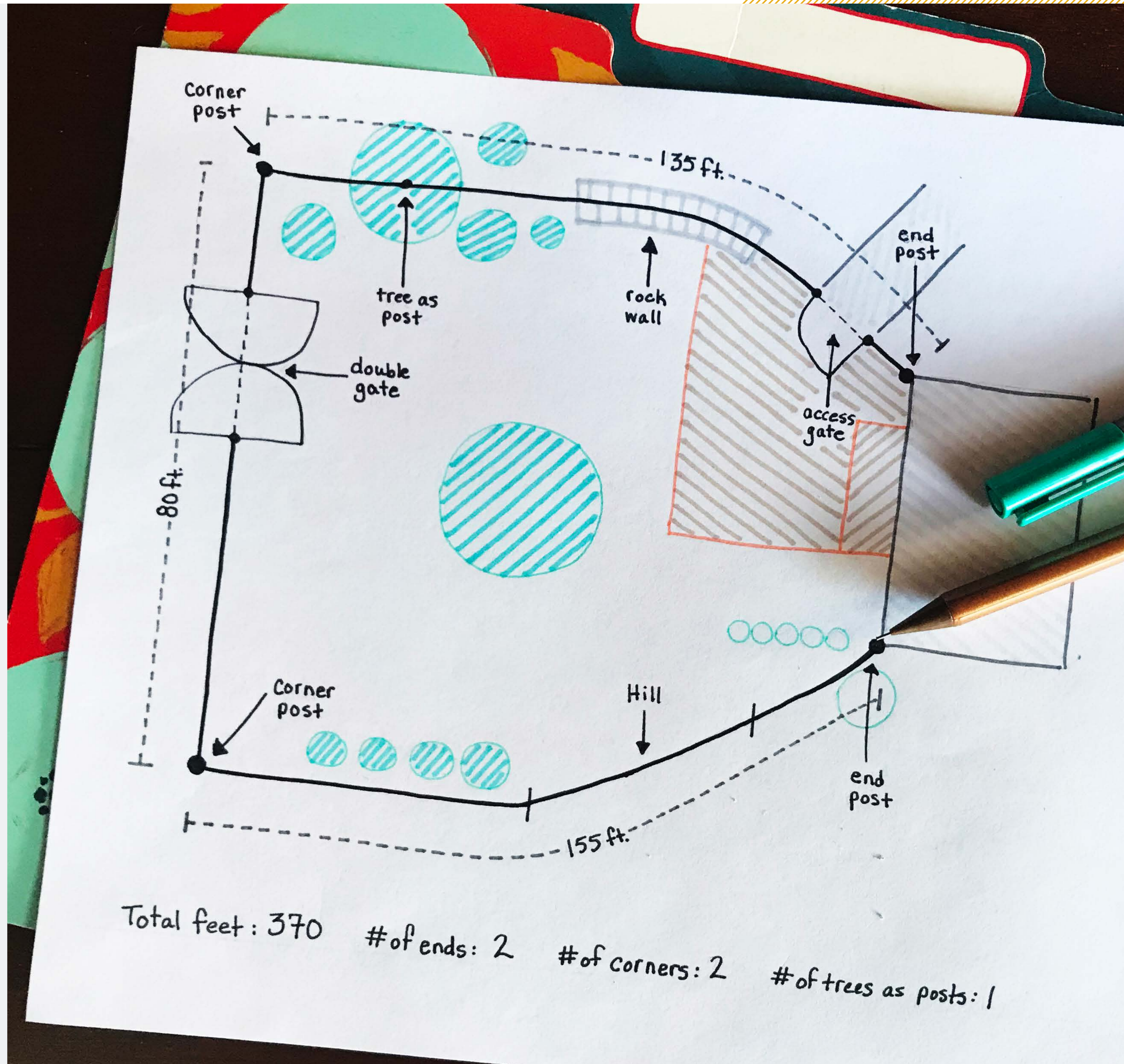
\*There is a margin of error in the measuring method.



### Draw diagram

Draw a diagram, mark and label the following:

- End + corner posts
- Trees that will be used as posts
- Gate locations
- Hills
- Special situation such as water crossings, gullies, traversing a rock wall, etc.



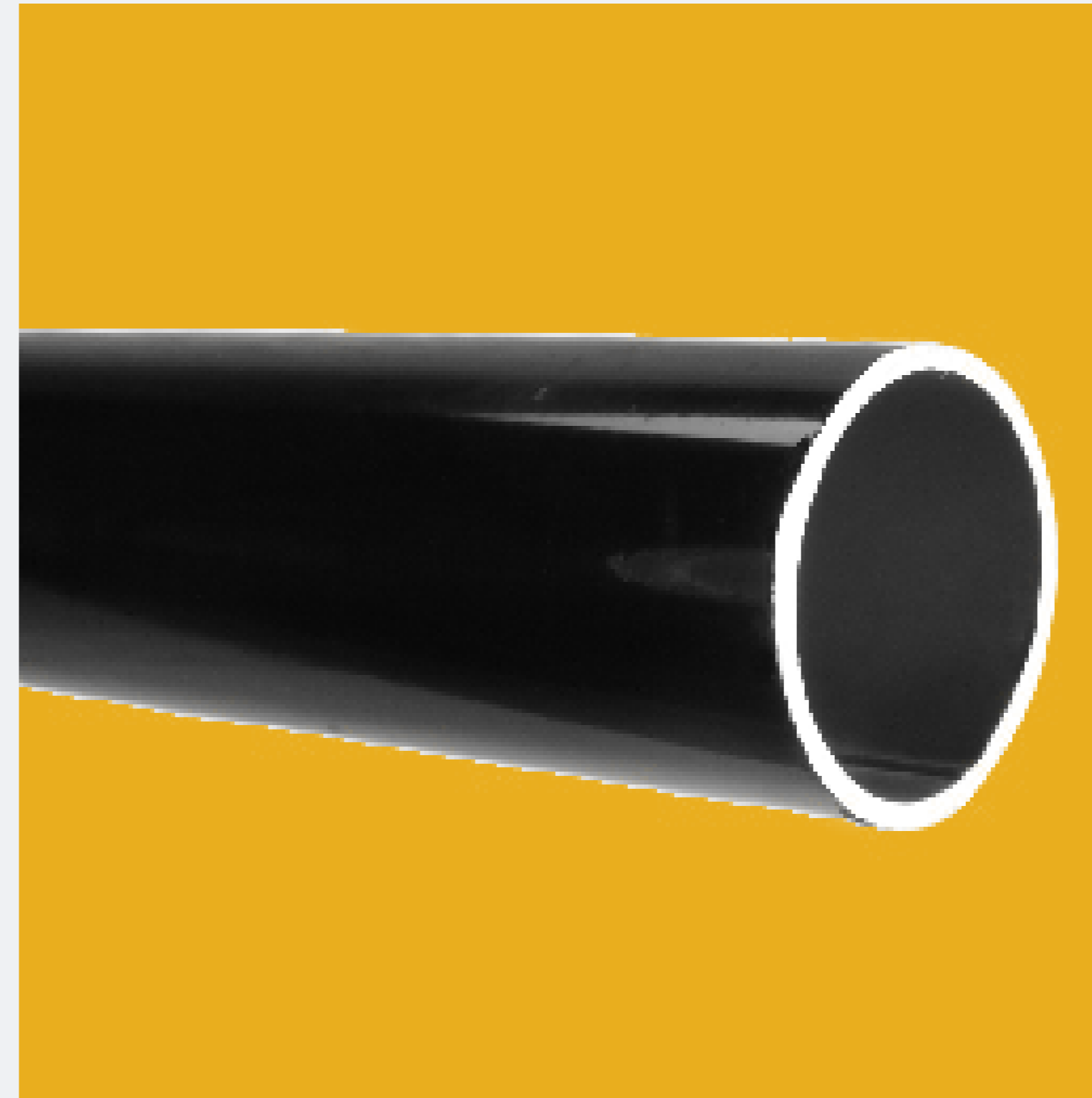
Total feet: 370    # of ends: 2    # of corners: 2    # of trees as posts: 1



# Determine Materials

Now that you have your fence layout designed, the next step is deciding what materials are best for your project. To help you decide what type of fence, fence height and cable support system are necessary for your situation, use the charts on the following pages.

- 1/ 16-ga. x 1 5/8" black metal post
- 2/ maximum duty poly fence and 14-ga. 2-inch x 2-inch welded wire fence
- 3/ 14-ga. 2-inch x 2-inch welded wire fence
- 4/ 8-ga. metal cable



1



2



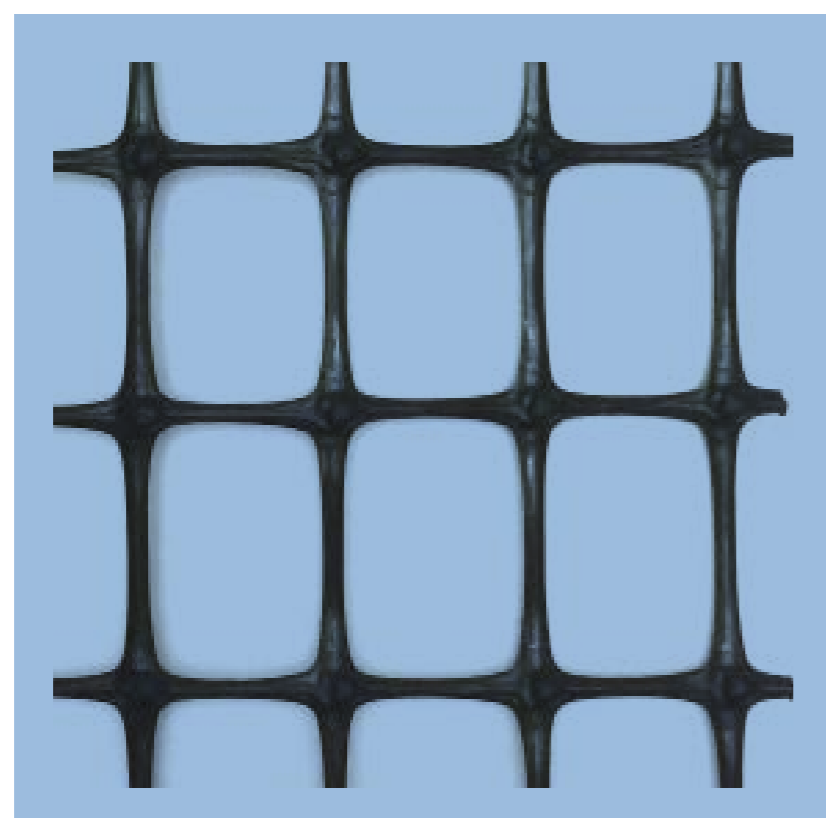
3



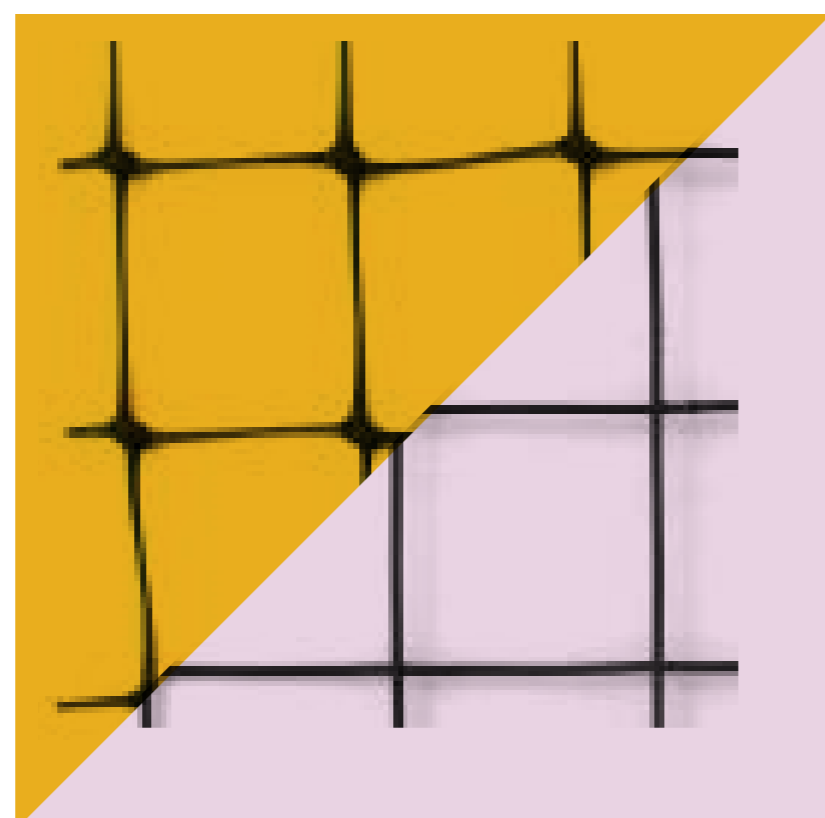
4



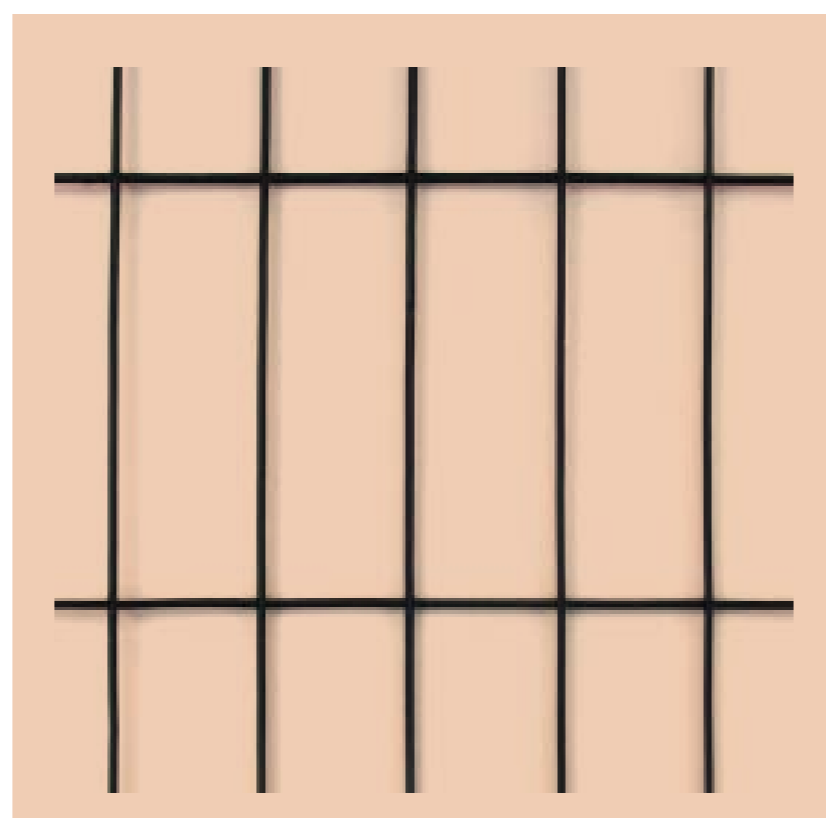
1/ elk/super duty poly fence 2/ maximum duty poly fence and 14-ga. 2-inch x 2-inch welded wire fence 3/ 14-gauge welded wire pool code 1.5-inch x 4-inch



1



2



3

# TYPES

# OF

# FENCE

We offer a wide selection of fencing materials including: polypropylene, metal, or polypropylene and metal fence blended together. These fences come in a variety of strengths, heights and mesh designs. You can read more about the different fence types [here](#).

Poly fence can be used on it's own to keep deer out. However,




it can be chewed through by rodents and damaged by lawn maintenance equipment. Stand alone poly fence is a good option for wooded areas with minimal rodent activity.

Poly fence with metal at the bottom is our most versatile option and provides a chew proof barrier along the lower section of the fence. It can accommodate almost any height and is easy to install.

An all metal fence works in most applications and comes in a variety of thicknesses.



## FENCE RECOMMENDATIONS

fence purpose	poly	poly/metal	metal
 deer out	×	×	×
 rodents out		×	×
 dogs in		×	×
 cats in		×	×
 pool code		×	×

↑  
14-gauge  
1.5-inch x 4-inch  
pool code  
welded wire  
fence.








# FENCE

# HEIGHT

Consider the specific situation when selecting your fence height. For keeping deer out, the larger your enclosure, the higher the fence needs to be. The Benner Deer Fence Co. has been using a 7' fence as our standard perimeter deer fence height and it has been very effective over the last 15 years. A smaller enclosure, such as a garden fence may only require a 6' high fence. Deer tend to avoid jumping into areas where they are fearful of being trapped. Learn more about deer habits [here](#).

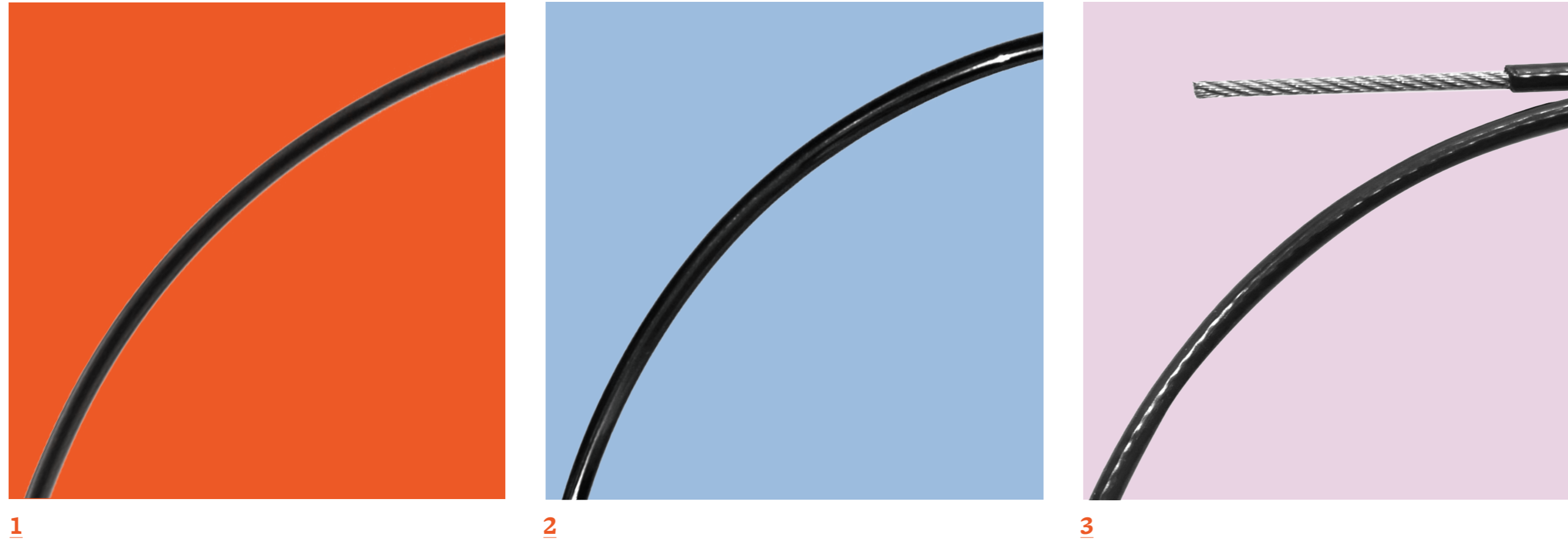


## FENCE HEIGHT RECOMMENDATIONS

fence purpose	3 ft.	4ft.	5ft.	6ft.	7ft.	8ft.	9ft.
 deer out				×	×	×	×
 rodents out	×	×	×	×	×	×	×
 dogs in	×	×	×	×	×	×	×
 cats in				×	×	×	×
 pool code		×	×	×	×	×	×



1/ 11-gauge nylon cable 2/ 8-gauge nylon cable  
3/ 8-gauge nylon coated metal cable.



1

2

3






# CABLE SUPPORT SYSTEMS

The larger and higher your fence enclosure, the more cable supports you need. We recommend using an 8-gauge metal cable for the bottom of the fence. 11-gauge nylon for the middle and an 8-gauge nylon for the top. A fence with no cable supports would only be used with a removable fence system. A single cable support

system could be used for an all poly fence in wooded areas with the use of ground stakes to secure the fence at the bottom. A 2-cable system can be used with an all poly or all metal fence, example: a 4-foot high pool fence would only need 2 cables. A poly-metal blended fence requires a 3-cable support system. The middle cable is used to support the top of the metal fence. A 4-cable system is recommended for high traffic areas. The 4th cable can be added in selected areas if the fence line crosses a current deer trail.



## CABLE SUPPORT RECOMMENDATIONS

fence purpose	0	1	2	3	4
 deer out	×	×	×	×	×
 rodents out			×	×	×
 dogs in			×	×	×
 cats in			×	×	×
 pool code		×	×	×	×



# Materials Worksheet

Use the worksheets on the following pages to determine all of the materials and tools you will need to complete your custom fence project.







**FENCE**

For every 100 feet of linear fence an additional 10 ft. of fence is needed.

$$\left( \frac{\text{linear footage}}{\text{linear footage}} \times 0.1 \right) + \frac{\text{linear footage}}{\text{linear footage}} = \frac{\text{ft. of fence}}{\text{ft. of fence}}$$

**END POST KITS**

One end kit is needed everywhere the fence line terminates.

$$\frac{\text{ft. of fence}}{\text{ft. of fence}} = \frac{\# \text{ of end post kits}}{\# \text{ of end post kits}}$$

**NOTES**

**CABLE**

For every 200 ft. of linear cable an additional 10 ft. of each cable is needed:

$$\left( \frac{\text{linear footage}}{\text{linear footage}} \times 0.5 \right) + \frac{\text{linear footage}}{\text{linear footage}} = \frac{\text{ft. of cable}}{\text{ft. of cable}}$$

If using trees as posts, 19 ft. of 8 ga. cable is needed for each tree.

$$\frac{\# \text{ of trees as posts}}{\# \text{ of trees as posts}} \times 19 = \frac{\text{ft. of 8 ga. cable}}{\text{ft. of 8 ga. cable}}$$

**CORNER POST KITS**

One corner kit is needed for every turn less than 110 degrees.

$$\frac{\text{ft. of fence}}{\text{ft. of fence}} = \frac{\# \text{ of corner post kits}}{\# \text{ of corner post kits}}$$

**LINE POST KITS**

For flat ground, one line post kit for every 10–14 ft. is needed. For hilly or moderate turns, one line post kit for every 8–12 ft. is needed.

$$\frac{\text{ft. of fence}}{\text{ft. of fence}} = \frac{\# \text{ of line post kits}}{\# \text{ of line post kits}}$$



### GRIPPLES

A cable gripple is needed for every cable termination. For every 200 feet of fence, 2 gripples for each line of cable. Order a few extra gripples to have on hand. Medium gripples work with 11 gauge cable and large gripples work with 8 gauge cable.

$$\frac{\text{linear footage}}{100} = \text{\# of gripples for each horizontal cable support.}$$

If using trees as posts, 1 large gripple is needed for each tree.

### GROUND STAKES

One ground stake is needed any time the distance between posts is greater than 8 feet. 18 inch re-bar ground stakes are recommended. If installing a fence to keep dogs in, 1-3 ground stakes between every post is recommended.

$$\text{linear footage} \div 8 = \text{\# of ground stakes}$$

### EYE LAG SCREWS

If using trees as posts, 3, 3/8" inch x 4 1/2 inch eye lag screws are needed for each tree. (If using a 4-cable support system, get 4 screws per post.)

$$\text{\# of trees as posts} \times 3 = \text{\# of eye lag screws}$$

### CABLE TIES

Approximately 50- 14 inch heavy duty cable ties are needed for every 100 feet of linear fence.

$$\text{linear footage} \times 0.5 = \text{\# of cable ties}$$

### HOG RINGS

300-400 hog ring clips are needed for every 100 feet of fence.

$$\text{linear footage} \times 3.5 = \text{\# of hog ring clips}$$

### TOOLS






description	i have	i need
Post Driver	<input type="checkbox"/>	<input type="checkbox"/>
San Angelo digging bar	<input type="checkbox"/>	<input type="checkbox"/>
Dewalt Compound Action Long Noise Pliers	<input type="checkbox"/>	<input type="checkbox"/>
9-inch magnetic level	<input type="checkbox"/>	<input type="checkbox"/>
hog ring gun	<input type="checkbox"/>	<input type="checkbox"/>
Cordless Power Drill drive (3/8 inch)	<input type="checkbox"/>	<input type="checkbox"/>
11/64" drill bit	<input type="checkbox"/>	<input type="checkbox"/>
Small sledge hammer	<input type="checkbox"/>	<input type="checkbox"/>
9/16" wrench	<input type="checkbox"/>	<input type="checkbox"/>
1/2" wrench	<input type="checkbox"/>	<input type="checkbox"/>
3/8" magnetic driver	<input type="checkbox"/>	<input type="checkbox"/>



**FENCE DETAILS**

fence line linear footage \_\_\_\_\_ ft.      overall fence height \_\_\_\_\_ ft.

**FENCE PURPOSE** (circle all that apply)

 **deer out**     
  **rodents out**     
  **dogs in**     
  **cats in**     
  **pool code**     
 **other**

**FENCE TYPE** (circle one)

**poly**     
  **poly/metal**     
  **metal**

**CABLE SUPPORT SYSTEM** (circle one)

**0**     
  **1**     
  **2**     
  **3**     
  **4**

**CABLE**

description	length
11 ga. nylon	
8 ga. nylon	
8 ga. metal	

**FENCE**

description	length	height

**POST KITS**

description	qty.	supports	height
line post kit			
corner post kit			
end post kit			

**GATES**

description	width	height	qty.

**ACCESSORIES**

description	qty.
large gripples	
medium gripples	
cable ties	
ground stakes	
hog ring tool	
hog ring clips	
eye lag screws	

**NOTES**

