

# FENCE PLANNER

for the **COMMON SENSE FENCE™**



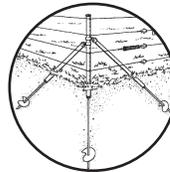
WWW.GEOTEKINC.COM

## *Fence Planning, Buying, & Installing has never been easier!*

### IMPORTANT – PLEASE READ FIRST!

**SAFETY:** Although modern fence controllers approved by recognized safety standard organizations pose no direct safety concern, indirect accidents can happen so it's important to be aware of the following **WARNINGS** before constructing your fence.

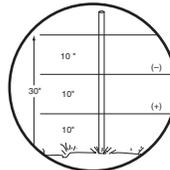
- WARN ALL PERSONS, ESPECIALLY CHILDREN, ABOUT YOUR ELECTRIC FENCE AND SHOW THEM HOW TO DISCONNECT THE CONTROLLER IN CASE OF EMERGENCY. If you permit hunters or other visitors to use your land, be sure they have been warned and that all of your electric fences are marked.
- USE AMPLE WARNING SIGNS. This is especially true around buildings or locations where you expect people to be. Warning signs should be used every 300 feet or less. In some states warning signs are required by law.
- ONLY USE CONTROLLERS WHICH HAVE BEEN APPROVED BY NATIONALLY KNOWN AND RECOGNIZED SAFETY STANDARD ORGANIZATIONS.
- BEFORE THUNDER OR ELECTRICAL STORMS, IT IS BEST TO DISCONNECT A CONTROLLER FROM THE FENCE WIRES AND REMOVE THE PLUG FROM THE LINE OUTLET.
- DO NOT FENCE DURING ELECTRICAL STORMS.
- NEVER GRASP A SUSPECTED LIVE FENCE WIRE.
- DO NOT TAMPER WITH OR ATTEMPT TO REPAIR CONTROLLERS. Controllers must be sent back to the factory or an authorized service shop for repairs.
- DO NOT USE MORE THAN ONE CONTROLLER FOR THE SAME SECTION OF FENCE.
- ALWAYS DISCONNECT THE CONTROLLER BEFORE HANDLING FENCE WIRES.
- WHEN WORKING NEAR OR TESTING ELECTRIC FENCES, KEEP FEET AND HANDS DRY.
- DO NOT USE BARBED WIRE WITH ELECTRIC FENCING.
- DO NOT STRING ELECTRIC FENCE WIRES OVER OR CLOSE TO WATER TANKS OR ANY WATER THAT MIGHT BE USED FOR SWIMMING.
- DO NOT ERECT AN ELECTRIC FENCE UNDER OR NEAR OVERHEAD POWER LINES. Because electric fence lines are well insulated from the ground, fallen power lines can send lethal amounts of electrical power for much greater distances than can non-electric fences. Check with your local power authority so see if this is a potential problem. The following illustration shows one method of safely passing under a power line with an electric fence.
- BE SURE THAT YOUR ELECTRIC FENCE WIRES (both wire return and hot) DO NOT COME IN CONTACT WITH YOUR BUILDING.
- NEVER USE YOUR POWER LINE GROUND RODS OR YOUR PLUMBING SYSTEM AS A GROUND FOR YOUR ELECTRIC FENCE.
- KEEP GROUND RODS FOR THE ELECTRIC FENCE AT LEAST 50 FEET AWAY FROM ANY:
  - Utility company rods.
  - Telephone company ground rods.
  - Underground metal pipes
  - Metal supports for structures which lie upon, or have been driven into, the earth.



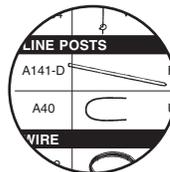
Study **Page 2** to determine where to use, Corner, Ends, & Gates. Take time to draw a detailed map your fence.



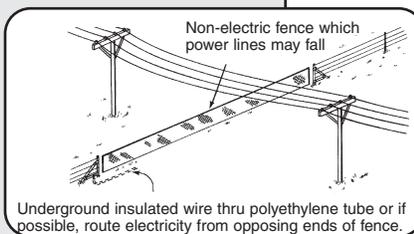
You will have to choose between Wire & Braid for your fence. We always recommend Braid for horses. Information on Braid is on **page 3** and wire is on **page 4**.



**Page 6** will help with the number of wires recommended & height of fence for different animals. Always fence for the toughest animal to control. Do you need to keep other animals out such as dogs or coyotes?



**Pages 7-12** are worksheets for the most common fence designs to help in ordering and determining what is needed.



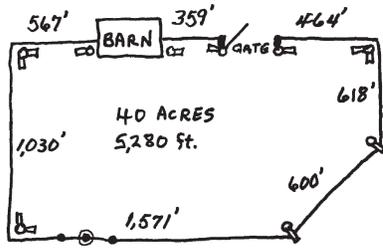
**NOTE:** Not all items listed are currently available through Geotek, Inc. Please refer to the Retail Price Sheet for product availability and up-to-date pricing.



**Common Sense Fence™, Geotek, Inc.**  
**1421 2nd Ave. NW, Stewartville, MN 55976**  
**1-800-533-1680 WWW.GEOTEKINC.COM**

# Sketch a Map

Begin by drawing a map of your property, including all major features such as: buildings, roads, fields, swamps, woods, hills, gullies, streams and other features that might require special consideration during construction. Be sure to include: power and telephone lines, gas and oil pipelines and underground cables.



## • Develop a good plan

By utilizing the planner we can help you get the most from each fencing dollar spent.

## • Check local laws & ordinances

In a rural area check with your county extension office and if in town, check with the City Clerks Office. In some areas less than a 4 wires is not a legal fence.

## • Check your property lines.

## • Talk with your neighbors

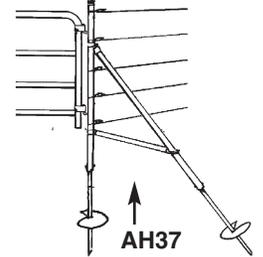
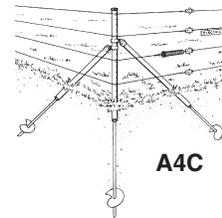
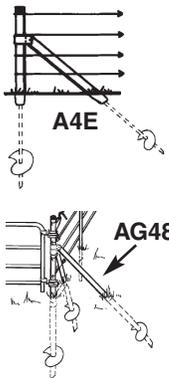
## • Call appropriate agencies to have underground gas, telephone, electric and water lines marked.

# End and Corner Assemblies

**A4C MULE™ Corner - (1 Post, 2 Braces and 3 Augers)** For all corners near 90°

**A4E MULE™ End - (1 Post, 1 Brace and 2 Augers), to be used in three situations:**

1. Where the fence will end or start.
2. For slight changes in fence direction and where a full corner is not required. Generally less than 60° and more than 120°.
3. Where the fence will end and a gate will be hung on that post and a Gate Brace (AG48) will be used.

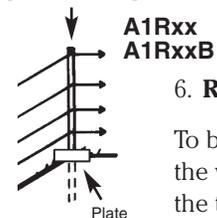


To hang gates on a 4' tall system, a horizontal brace (AH-37) should also be added for extra support for the weight of the gate. The 5' & 6' tall systems already have horizontal braces with them.

# Dip and Ridge Posts

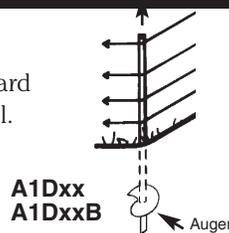
## 5. Dip Post

To be used where the ground rises causing a lot of upward pull on the post. Use at the bottom of a valley dip or hill.

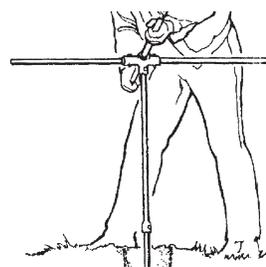


## 6. Ridge Post

To be used where the ground slopes down and tension on the wires will want to force the post into the ground. Use at the top of a valley, dip or hill.



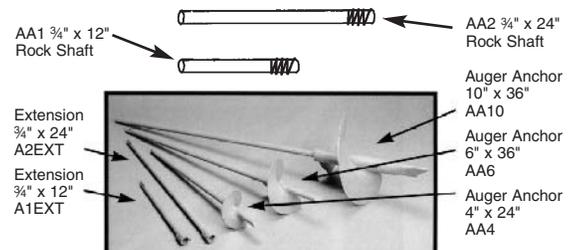
# Mule Anchor Install Tool



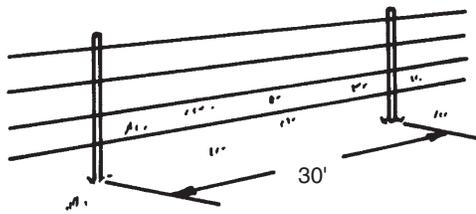
**A1TL Tool, MULE screw-in anchor, Handle and 2 ft. extension**

# Anchor Options

**IMPORTANT NOTICE! The holding power of the augers is directly proportional to the amount of force used to screw the augers in (i.e., the harder it is to screw the augers in, the greater the holding power).** The 6" x 36" auger anchor is the standard and works in over 80 percent of the situations. However, for very hard, rocky ground, we have the 4" x 24" auger and for soft sand, peat and swampy soils we have the 10" x 36" auger. In addition, 12" and 24" extensions are available to handle unexpected conditions that may require deeper penetration into the ground. If one has solid rock, one can drill a hole in the rock, insert the 3/4" x 12" or 3/4" x 24" Rock shaft, add grout, let it harden and install the corner system.



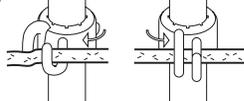
# In Line Posts and Install Clips



Suggested spacing for line posts is 30 feet.

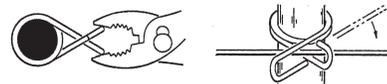
## FOR BRAID OR WIRE

Slide clips on to the fiberglass post and turn to allow the braid to be dropped into the bottom hook.



Turn the clip to snap the braid into the top book. Position the clip at the desired height and turn the screw in tight. Do not overtighten and twist the screwhead off.

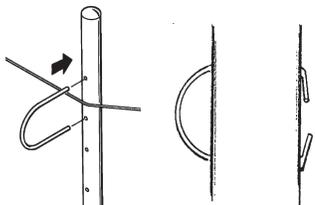
## FOR HIGH TENSILE WIRE



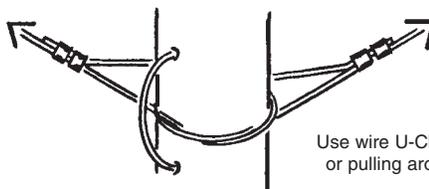
Squeeze hooks together. Slip clip onto post with longer hook down, release.

Pull wire up into bottom hook – rotate wire up and around until it is inside the upper hook. Release.

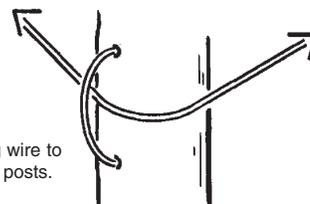
## WIRE U-CLIPS



Push u-clip through two holes. Use hammer for 2" posts to bend wires, and pliers for line posts.

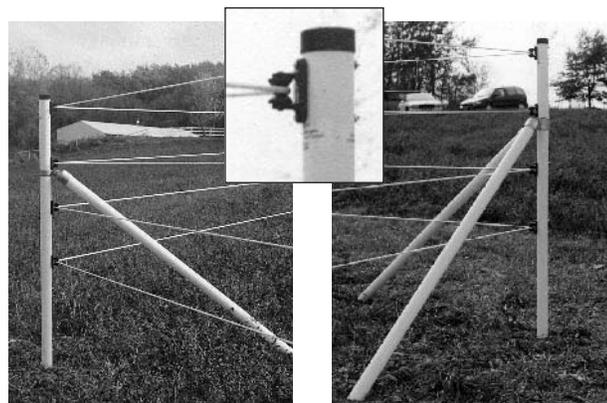


Use wire U-Clips when securing wire to or pulling around corner & end posts.

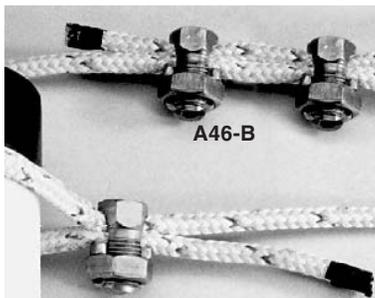


Use U-Clips when securing ElectroBraid™ to corner & end posts.

Use ElectroBraid™ Roller Clip when pulling ElectroBraid™ around corners & changes in Braid direction.



# Connectors and Tensioning Kit for Braid



Use 2-A46-B (Split Bolt Connector) for splicing the ElectroBraid™.

Use 1 - A46-B (Split Bolt Connector) to fasten the ElectroBraid™ to the MULE™ corners & ends.

**Note:** Leave three to four inches at the end of the ElectroBraid™ in case future adjustments are necessary.

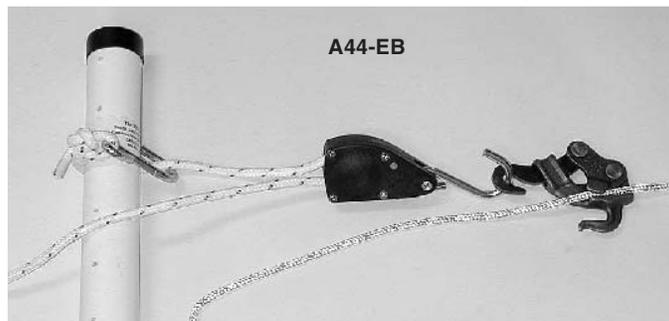
**To cut Braid:** Wrap Braid with black tape, cut braid through center of the black tape, then melt the ends.

When connecting the ElectroBraid™ to galvanized hookup wire, use the A46-BH connectors.



A46-BH

Rope pulley and a scissor clamp for tightening the ElectroBraid™ fence lines.



A44-EB

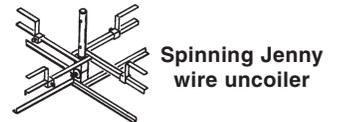
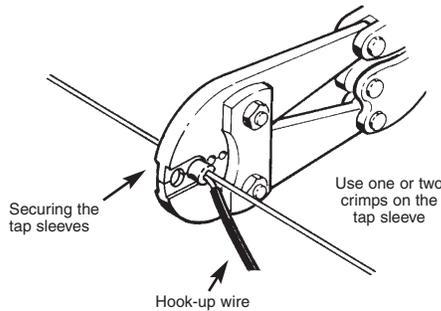
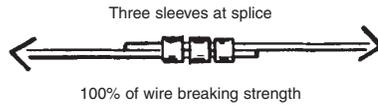
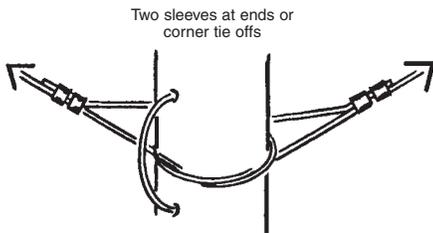
# Wire, Tensioners and Crimp Sleeves

12½ gauge, 200,000 min. psi, high tensile, class III galvanized steel wire is recommended. Its strength and elasticity will assure you of a fence that lasts for years. Care must be taken when uncoiling high tensile wire as it acts like a coiled spring and can easily become entangled. A “spinning jenny”, as shown in the photo should be used to hold the wire in place as it’s being uncoiled. Install in-line wire tensioners and secure wire as shown in illustrations below. Secure just ONE wire prior to driving line posts in. This should be the second wire up from the ground. Tighten wire with in-line wire tensioners so it stays straight and provides a guide for installing the line posts.



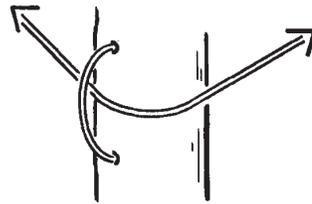
## CRIMP SLEEVES

It is recommended that all wire connections be made using crimp splice sleeves and the special crimp tool. Use of the crimp sleeves will result in a splice equal to the strength of the wire.



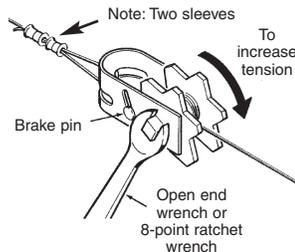
## WIRE TENSIONER PLACEMENT

(X) shows location of wire tensioner	Maximum feet of wire per wire tensioner
<p><b>STRAIGHT LINE</b></p>	<p>4,000 ft. max.</p> <p>Additional wire tensioners per wire are required if braced ends are over 5,000 ft. apart.</p>
<p><b>ONE CORNER</b></p>	<p>4,000 ft. max. each</p> <p>Use two wire tensioners for angles less than 45° (one on each straight line)</p>
<p><b>TWO CORNERS</b></p>	<p>4,000 ft. max.</p> <p>You can pull around one corner in each direction.</p>



NOTE: Fence line wires may “flow” around corners allowing longer runs and the use of fewer tensioners. See chart.

### (X) WIRE TENSIONER

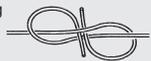


12½ gauge high tensile wire can be tied off as illustrated below. However, it is difficult to do and one does not achieve a splice strength equal to the strength of the wire.

### SPLICE KNOTS

#### FIGURE EIGHT

65% of wire breaking strength

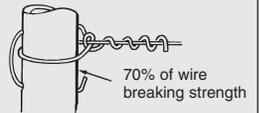


#### DOUBLE LOOP

30% of wire breaking strength



#### THREADED THROUGH



#### SIMPLE TWIST

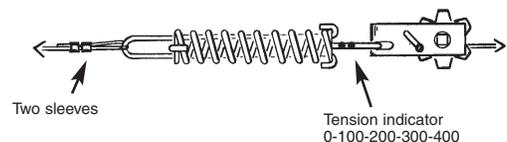
15% of wire breaking strength



## Tension Indicator Spring

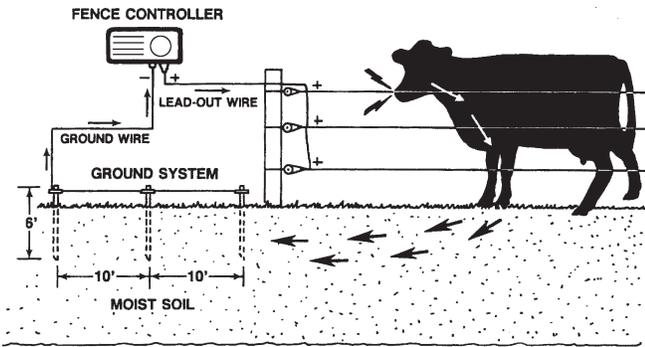
Recommended wire tension is between 100 and 150 pounds for 12½ gauge wire. The springs are marked to show load. Generally, the wires need to be tightened so they do not have excessive sag and thus not likely to touch the wire above or below. Remember, **ITS THE ELECTRICITY THAT IS CONTROLLING THE ANIMALS**, not the wire tension.

### IN-LINE TENSION INDICATOR SPRING TENSIONER



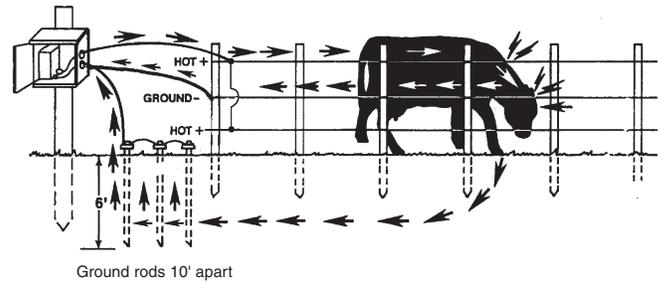
# Fence Controller and Ground System

## ALL HOT SYSTEM



In an all hot system, the animal receives a shock by touching a hot wire which transfers the electrical charge through the animal, through the earth to the ground rods and back to the controller which completes the circuit. **This system relies on good ground rods and moist, unfrozen earth conditions.**

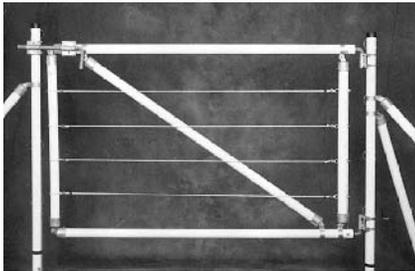
## HOT/GROUND SYSTEM



In the hot/ground system, the animal can receive a shock the same as the All Hot System and also by touching a hot (+) and ground (-) wire at the same time to complete the circuit. **FOR BEST RESULTS IN ALL SOIL CONDITIONS, USE A HOT/GROUND SYSTEM.**

DO NOT install ground rods within 50 feet of a utility ground rod, buried telephone line, a well or buried water-line (they may pick up stray voltage).

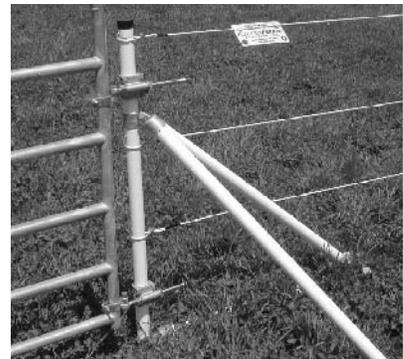
# Gates



## GATE HINGE BRACKETS & LATCHES FOR FARM GATES

The Gate Hinge Bracket Assembly (AG5) and Gate Post Chain Bracket (A67) are used to mount metal gates to corner posts. Use a diagonal Gate Brace (AG48 or AG66) on hinge and latch sides of gate to support swing of gate. NOTE: If mounting a metal gate on a 4 foot high MULE corner (A4C or A4E) then an additional horizontal brace (AH37) is recommended.

### GATE HINGE BRACKET



### GATE LATCH BRACKET - SINGLE GATE

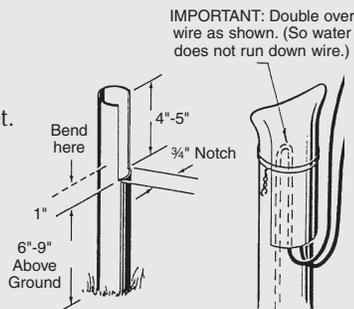


We recommend insulated hook-up wire inserted through polyethylene tubing to conduct fence line current underground. Polyethylene tubing provides additional insulation from the soil as well as protecting the insulation on the wires. The use of overhead wires is not recommended. Transfer wires that run overhead from controllers to fence lines and across gateways, are "high targets" for lightning strikes and may be damaged by farm equipment.

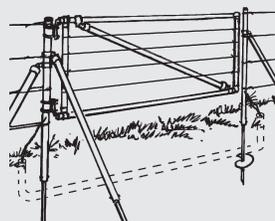
Underground use of insulated hook-up wire requires proper installation:

- Never have spliced insulated hook-up wires inside the polyethylene tubing.
- The ends of the polyethylene tubing must be made water resistant.

• Maximum distance recommended for underground is 90 feet. For longer distances, run a fence above the ground or install the controller closer to the fence.



### WATER RESISTANT END FOR POLYETHYLENE TUBING



# Suggested Braid and Wire Spacings:

The designs shown are for general reference and may be modified for your own specific containment needs.

## 4 Foot High Heavy Duty MULE™

**BEEF, DAIRY, HORSES, BEAR**

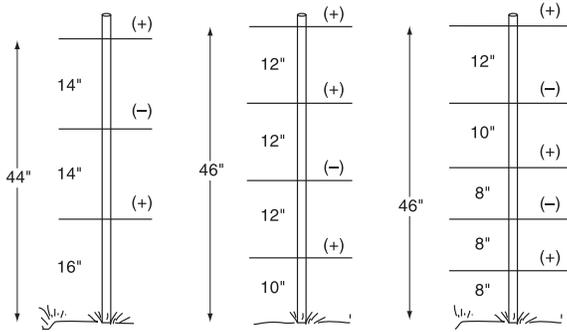


Figure 8

Figure 9

Figure 10

**SHEEP, GOATS, HOGS**

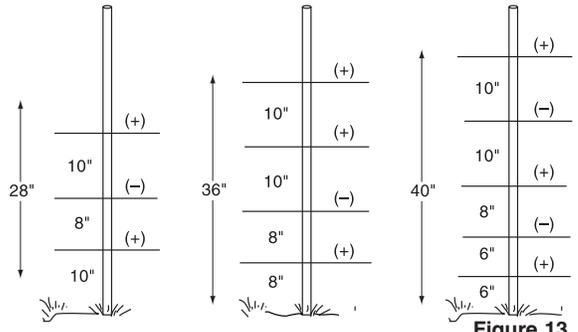


Figure 11

Figure 12

Figure 13

## 5 Foot High Heavy Duty MULE™

**DAIRY, BEEF, HORSES, BUFFALO, DEER, PREDATORS, LLAMA, BEAR**

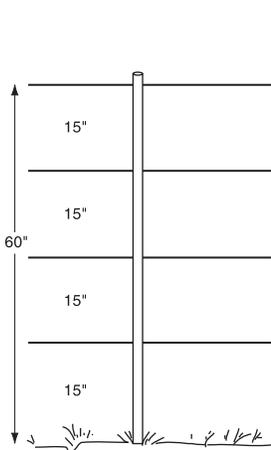


Figure 14

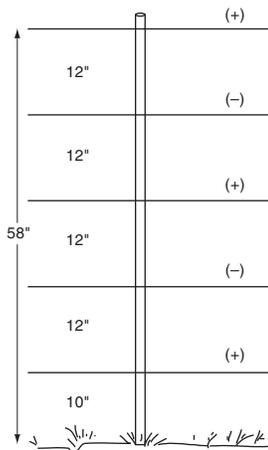


Figure 15

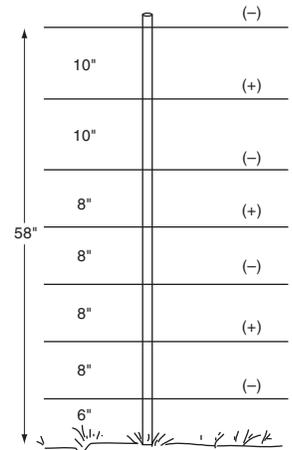


Figure 16

## 6 Foot High Heavy Duty MULE™

**BUFFALO, DEER, PREDATORS, BEAR**

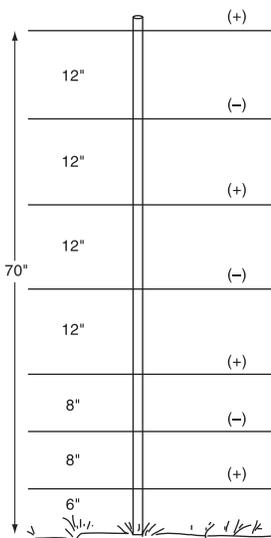


Figure 17

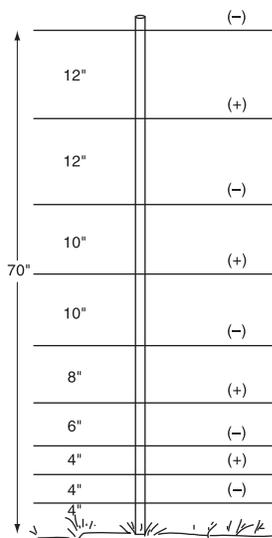


Figure 18

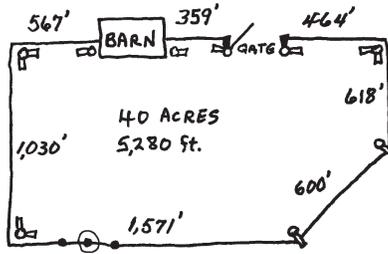
**PREDATOR CONTROL – COYOTES, DOGS, WOLVES, ETC.**

Fencing requirements are generally greater for the control of wild animals. This is because of their more aggressive behavior towards fences and barriers. Just as with livestock, it is important to consider the physical and behavioral characteristics of the wild animals which you are going to control. Dogs and their relatives are of particular interest because they have no sweat glands. This greatly reduces the moisture on their skins, making electrical flow more difficult and thus a less effective shock. A fence for these predators must be high enough to keep them from jumping over, wire spacing close enough to keep them from squeezing through. The 9-wire general-purpose predator fence shown in Figure 17 forces the predator to climb the fence. This insures simultaneous contact by two or more of its padded paws between the (+) hot and the (-) wire return producing the most effective shock to control these predators.

# 4 Foot High ElectroBraid™ Fence

## YOUR FENCE

-  A4C
-  A4E
-  AG48
-  A1D54B
-  A1R72B

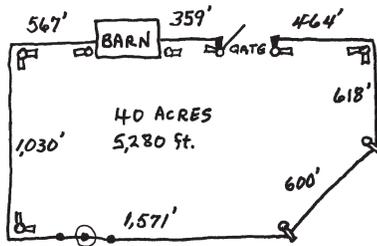


ITEM NO.	ITEM DESCRIPTION	QUANTITY TO USE	QUANTITY SAMPLE JOB 4-Braid Fence	QUANTITY YOUR JOB	PRICE EACH	TOTAL PRICE
<b>CORNERS AND ENDS</b>						
A4C	 MULE Corner	Count every 90 degree corner	3			
A4E	 MULE End	Use wherever the fence changes direction or stops and an A4C Mule Corner is not used	6			
AG48	 Gate Stabilizing Brace Assembly	Use to stabilize A4E with gate attached	2			
AH37	 Fiberglass Horizontal Brace	When using 5 or more wires, use two with each A4C Mule Corner and one with each A4E Mule End. Also, use one for every gate for added support.	1			
A53-1103	 ElectroBraid™ Roller Clip Kit 12/pkg	Use a roller clip whenever pulling ElectroBraid™ around corners or changes in Braid direction See page 3 in planner.	2			
<b>DIP AND RIDGE POSTS</b>						
A1D54B	 Fiberglass Dip Post, 7/8" x 54" with Mule Anchor	Use at bottom of a valley, dip or hill	1			
A1R72B	 Fiberglass Ridge Post, 7/8" x 72" with plate and pin.	Use at the top of a valley, dip or hill	2			
<b>LINE POSTS</b>						
A24	 Fiberglass line post 1116"x72"	Divide total footage by 30 and round up	176			
A37P	 1116" QuickClips (20/pkg.)	Multiply the number of lines by the number of line posts, divide by 20 and round up (4 x 132 ÷ 20 =)	36 pkg			
<b>WIRE</b>						
BRAID	 ElectroBraid™ 1200' Spool, White	Multiply the total footage of the fence by the number of fence lines, divide by 1200 and round up	18			
A46-B	 Copper Connectors, Braid 10/pkg, for splices and ends	Multiply the number of lines times the number of ends, plus 2 times the number of splices divided by 10 and round up	3 pkg			
A46-BH	 Hookup Connector, Braid for electrical connections	If using galvanized hookup wire, multiply two times the number of lines times the number of gates	8			
<b>GATES</b>						
	 Wood or Metal Gate	Gates 4, 8, 10, and 12 ft. lengths	1			
A65	 Gate Bracket, pair	One A65 per gate	1 pair			
A67	 Gate Post Chain Bracket	One A67 per gate	1			
<b>CHARGER</b>						
	 Electric Fence Charger .25-36 joules for fences .25 - 25 miles long	Battery, Solar and other size chargers also available	1			
A55-C	 Copper Ground Rod with clamp	The number of Ground Rods used depends on the type of soil and size of Fence Charger. Generally never less than 2 for the fence and 2 for the Lightning Arrestor	4			
	 Lightning Arrestor	Minimum of one per electric fence charger	1			
	 110V Surge Protector	One per electric fence charger	1			
A57-Copper	 Insulated hook-up wire, (250 ft. roll)	Add the length of all gates. Multiply by the number of wires, then by 2, and then add 2 times the distance from the fence charger to the fence. Divide the total by 250 ft. and round up	1			
	 Poly-Tube 1" x 100'	Use when running hook-up wires under ground such as gates & from the charger to the fence	1			
	 <b>ELECTRIC FENCE</b> Electric Fence Warning Sign	Some states require 1 Electric Fence Warning sign every 300 ft. You may want to check with your county or city officials	6			
<b>TOOLS</b>						
A1TL	 Tool, MULE screw-in anchor, Handle and 2 ft. extension	Used to install the MULE screw-in auger anchors and save it to remove the anchors if you ever decide to move the fence	1			
A44-EB	 Braid Tightening Pulley and Clamp	Used to tighten the ElectroBraid™	1			
<b>OTHER ITEMS</b>						
	 Voltage Meter	Used to test proper wiring of fence	1			<b>TOTAL PRICE</b>

# 5 Foot High ElectroBraid™ Fence

## YOUR FENCE

-  A5C
-  A5E
-  AG66
-  A1D72B
-  A1R84B

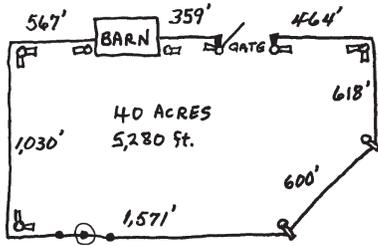


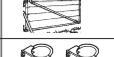
ITEM NO.	ITEM DESCRIPTION	QUANTITY TO USE	QUANTITY SAMPLE JOB 4-Braid Fence	QUANTITY YOUR JOB	PRICE EACH	TOTAL PRICE
<b>CORNERS AND ENDS</b>						
A5C	 MULE Corner	Count every 90 degree corner	3			
A5E	 MULE End	Use wherever the fence changes direction or stops and an A5C Mule Corner is not used	6			
AG66	 Gate Stabilizing Brace Assembly	Use to stabilize A5E with gate attached	2			
A53-1103	 ElectroBraid™ Roller Clip Kit 12/pkg	Use a roller clip whenever pulling ElectroBraid™ around corners or changes in Braid direction See page 3 in planner.	2			
<b>DIP AND RIDGE POSTS</b>						
A1D72B	 Fiberglass Dip Post, 7/8" x 72" with Mule Anchor	Use at bottom of a valley, dip or hill	1			
A1R84B	 Fiberglass Ridge Post, 7/8" x 84" with plate and pin.	Use at the top of a valley, dip or hill	2			
<b>LINE POSTS</b>						
A141	 Fiberglass line post 7/8"x84"	Divide total footage by 30 and round up	176			
A143P	 7/8" QuickClips (20/pkg.)	Multiply the number of lines by the number of line posts, divide by 20 and round up (4 x 132 ÷ 20 =)	36 pkg			
<b>WIRE</b>						
BRAID	 ElectroBraid™ 1200' Spool, White	Multiply the total footage of the fence by the number of fence lines, divide by 1200 and round up	18			
A46-B	 Copper Connectors, Braid 10/pkg, for splices and ends	Multiply the number of lines times the number of ends, plus 2 times the number of splices divided by 10 and round up	3 pkg			
A46-BH	 Hookup Connector, Braid for electrical connections	If using galvanized hookup wire, multiply two times the number of lines times the number of gates	8			
<b>GATES</b>						
	 Wood or Metal Gate	Gates 4, 8, 10, and 12 ft. lengths	1			
A65	 Gate Bracket, pair	One A65 per gate	1 pair			
A67	 Gate Post Chain Bracket	One A67 per gate	1			
<b>CHARGER</b>						
	 Electric Fence Charger .25-36 joules for fences .25 - 25 miles long	Battery, Solar and other size chargers also available	1			
A55-C	 Copper Ground Rod with clamp	The number of Ground Rods used depends on the type of soil and size of Fence Charger. Generally never less than 2 for the fence and 2 for the Lightning Arrestor	4			
	 Lightning Arrestor	Minimum of one per electric fence charger	1			
	 110V Surge Protector	One per electric fence charger	1			
A57-Copper	 Insulated hook-up wire, (250 ft. roll)	Add the length of all gates. Multiply by the number of wires, then by 2, and then add 2 times the distance from the fence charger to the fence. Divide the total by 250 ft. and round up	1			
	 Poly-Tube 1" x 100'	Use when running hook-up wires under ground such as gates & from the charger to the fence	1			
	 ELECTRIC FENCE	Some states require 1 Electric Fence Warning sign every 300 ft. You may want to check with your county or city officials	6			
<b>TOOLS</b>						
A1TL	 Tool, MULE screw-in anchor, Handle and 2 ft. extension	Used to install the MULE screw-in auger anchors and save it to remove the anchors if you ever decide to move the fence	1			
A44-EB	 Braid Tightening Pulley and Clamp	Used to tighten the ElectroBraid™	1			
<b>OTHER ITEMS</b>						
	Voltage Meter	Used to test proper wiring of fence	1			
						<b>TOTAL PRICE</b>

# 6 Foot High ElectroBraid™ Fence

## YOUR FENCE

-  A6C
-  A6E
-  AG66
-  A1D84B
-  A1R96B



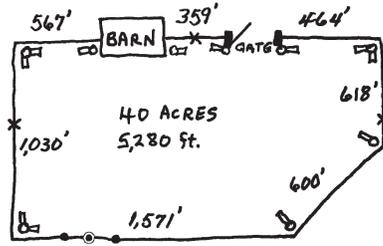
ITEM NO.	ITEM DESCRIPTION	QUANTITY TO USE	QUANTITY SAMPLE JOB 9-Braid Fence	QUANTITY YOUR JOB	PRICE EACH	TOTAL PRICE
<b>CORNERS AND ENDS</b>						
A6C	 MULE Corner	Count every 90 degree corner	3			
A6E	 MULE End	Use wherever the fence changes direction or stops and an A5C Mule Corner is not used	6			
AG66	 Gate Stabilizing Brace Assembly	Use to stabilize A5E with gate attached	2			
A53-1103	 ElectroBraid™ Roller Clip Kit 12/pkg	Use a roller clip whenever pulling ElectroBraid™ around corners or changes in Braid direction See page 3 in planner.	2			
<b>DIP AND RIDGE POSTS</b>						
A1D84B	 Fiberglass Dip Post, 7/8" x 84" with Mule Anchor	Use at bottom of a valley, dip or hill	1			
A1R96B	 Fiberglass Ridge Post, 7/8" x 96" with plate and pin.	Use at the top of a valley, dip or hill	2			
<b>LINE POSTS</b>						
A142	 Fiberglass line post 7/8" x 96"	Divide total footage by 30 and round up	176			
A143P	 7/8" QuickClips (20/pkg.)	Multiply the number of lines by the number of line posts, divide by 20 and round up ( $4 \times 132 \div 20 =$ )	36 pkg			
<b>WIRE</b>						
BRAID	 ElectroBraid™ 1200' Spool, White	Multiply the total footage of the fence by the number of fence lines, divide by 1200 and round up	18			
A46-B	 Copper Connectors, Braid 10/pkg, for splices and ends	Multiply the number of lines times the number of ends, plus 2 times the number of splices divided by 10 and round up	3 pkg			
A46-BH	 Hookup Connector, Braid for electrical connections	If using galvanized hookup wire, multiply two times the number of lines times the number of gates	8			
<b>GATES</b>						
	 Wood or Metal Gate	Gates 4, 8, 10, and 12 ft. lengths	1			
A65	 Gate Bracket, pair	One A65 per gate	1 pair			
A67	 Gate Post Chain Bracket	One A67 per gate	1			
<b>CHARGER</b>						
	 Electric Fence Charger .25-36 joules for fences .25 - 25 miles long	Battery, Solar and other size chargers also available	1			
A55-C	 Copper Ground Rod with clamp	The number of Ground Rods used depends on the type of soil and size of Fence Charger. Generally never less than 2 for the fence and 2 for the Lightning Arrestor	4			
	 Lightning Arrestor	Minimum of one per electric fence charger	1			
	 110V Surge Protector	One per electric fence charger	1			
A57-Copper	 Insulated hook-up wire, (250 ft. roll)	Add the length of all gates. Multiply by the number of wires, then by 2, and then add 2 times the distance from the fence charger to the fence. Divide the total by 250 ft. and round up	1			
	 Poly-Tube 1" x 100'	Use when running hook-up wires under ground such as gates & from the charger to the fence	1			
	 Electric Fence Warning Sign	Some states require 1 Electric Fence Warning sign every 300 ft. You may want to check with your county or city officials	6			
<b>TOOLS</b>						
A1TL	 Tool, MULE screw-in anchor, Handle and 2 ft. extension	Used to install the MULE screw-in auger anchors and save it to remove the anchors if you ever decide to move the fence	1			
A44-EB	 Braid Tightening Pulley and Clamp	Used to tighten the ElectroBraid™	1			
<b>OTHER ITEMS</b>						
	 Voltage Meter	Used to test proper wiring of fence	1			
						<b>TOTAL PRICE</b>

# 4 Foot High Fence Wire

## YOUR FENCE

### SAMPLE FENCE (4 wire)

-  A4C
-  A4E
-  AG48
-  A1R72
-  A1D54
-  A44 Tensioner



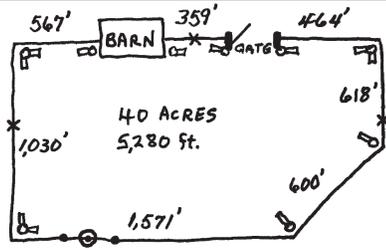
ITEM NO.	ITEM DESCRIPTION	QUANTITY TO USE	QUANTITY SAMPLE JOB 4-Wire Fence	QUANTITY YOUR JOB	PRICE EACH	TOTAL PRICE
<b>CORNERS AND ENDS</b>						
A4C	 MULE Corner	Count every 90 degree corner.	3			
A4E	 MULE End	Use wherever the fence changes direction or stops and an A4C Mule Corner is not used, and at every gate.	6			
AG48	 Gate Brace	Use to stabilize A4E with attached gate.	2			
AH37	 Fiberglass Horizontal Brace	When using 5 or more wires, use two with each A4C Mule Corner and one with each A4E Mule End. Also, use one for every gate for added support.	1			
<b>DIP AND RIDGE POSTS</b>						
A1D54	 Fiberglass Dip Post, 7/8" x 54" with Mule Anchor	Use at bottom of a valley, dip or hill	1			
A1R72	 Fiberglass Ridge Post, 7/8" x 72" with plate and pin.	Use at the top of a valley, dip or hill	2			
<b>LINE POSTS</b>						
A24-D	 Fiberglass drilled line post 1 1/4" x 72"	Divide total footage by 30 and round up.	176			
A40	 U-Clips (20/pkg.)	Multiply the number of wires by the number of line posts, divide by 20 and round up.	36			
<b>WIRE</b>						
	 Wire, 12 1/2 ga., 200,000+psi High-tensile coil of 2,000 ft.	Multiply the total footage of the fence by the number of wires, divide by 2,000 and round up.	11			
	 Wire Tensioner	Use one per run of wire. Consult drawings/information. See page 4 in planner.	12			
	 Wire Tensioner Indicator Spring	Optional. Use 1 per set of tensioners to set tension at 150-200 lbs. per wire. Set other wires by feel.	3			
	 Crimp Sleeve (100/pkg.)	Add number of tensioners and number of coils of wire, multiply by 5, and divide the total by 100 and round up.	6			
<b>GATES</b>						
	 Wood or Metal Gate	Gates 4, 8, 10, and 12 ft. lengths	1			
A65	 Gate Bracket, pair for 3/4" gate bolt	One A65 per gate	1			
A67	 Gate Post Chain Bracket	One A67 per gate	1			
<b>CHARGER</b>						
	 Electric Fence Charger .25-36 joules for fences .25 - 25 miles long	Battery, Solar and other size chargers also available	1			
	 Ground Rod with clamp	The number of Ground Rods used depends on the type of soil and size of Fence Charger. Generally never less than 2 for the fence and 2 for the Lightning Arrestor.	4			
	 Lightning Arrestor	Minimum of one per electric fence charger	1			
	 110V Surge Protector	One per electric fence charger	1			
	 Insulated hook-up wire, (165 ft. roll)	Add the length of all gates. Multiply by the number of fence wires, then by 2, and then add 2 times the distance from the fence charger to the fence. Divide the total by 165 ft. and round up.	1			
	 Poly-Tube 1" x 100'	Use when running hook-up wires under ground such as gates & from the charger to the fence	1			
	 Tap Sleeves (25/pkg.)	Use to connect hook-up wire to the fence.	1			
	 <b>ELECTRIC FENCE</b> Electric Fence Warning Sign	Some states require 1 Electric Fence Warning sign every 300 ft. You may want to check with your county or city officials.	6			
<b>TOOLS</b>						
A1TL	 Tool, MULE screw-in anchor, Handle and 2 ft. extension	Used to install the MULE screw-in auger anchors and save it to remove the anchors if you ever decide to move the fence.	1			
	 Spinning Jenny Tool	Used to uncoil the high-tensile wire	1			
	 Crimp Tool	Used to crimp the splice and the tap sleeves.	1			
<b>OTHER ITEMS</b>						
	Voltage Meter	Used to test proper wiring of fence	1			
						<b>TOTAL PRICE</b>

# 5 Foot High Fence Wire

YOUR FENCE

## SAMPLE FENCE (7 wire)

-  A5C
-  A5E
-  AG66
-  A1R84
-  A1D72
-  A44 Tensioner



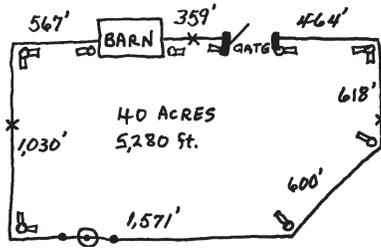
ITEM NO.	ITEM DESCRIPTION	QUANTITY TO USE	SAMPLE JOB 7-Wire Fence	QUANTITY YOUR JOB	QUANTITY PRICE EACH	TOTAL PRICE
<b>CORNERS AND ENDS</b>						
A5C	 MULE Corner	Count every 90 degree corner.	3			
A5E	 MULE End	Use wherever the fence changes direction or stops and an A4C Mule Corner is not used, and at every gate.	6			
AG66	 Gate Brace	Use to stabilize A5E with attached gate.	2			
<b>DIP AND RIDGE POSTS</b>						
A1D72	 Fiberglass Dip Post, 7/8" x 72" with Mule Anchor, drilled.	Use at bottom of a valley, dip or hill	1			
A1R84	 Fiberglass Ridge Post, 7/8" x 84" with plate and pin, drilled.	Use at the top of a valley, dip or hill	2			
<b>LINE POSTS</b>						
A141-D	 Fiberglass Drilled line post 7/8"x84"	Divide total footage by 30 and round up.	176			
A40	 U-Clips (20/pkg.)	Multiply the number of wires by the number of line posts, divide by 20 and round up.	80			
<b>WIRE</b>						
	 Wire, 12 1/2 ga., 200,000+psi High-tensile coil of 2,000 ft.	Multiply the total footage of the fence by the number of wires, divide by 2,000 and round up.	19			
	 Wire Tensioner	Use one per run of wire. Consult drawings/information. See page 4 in planner.	21			
	 Wire Tensioner Indicator Spring	Optional. Use 1 per set of tensioners to set tension at 150-200 lbs. per wire. Set other wires by feel.	3			
	 Crimp Sleeve (100/pkg.)	Add number of tensioners, and number of coils of wire, multiply by 5, and divide the total by 100 and round up.	10			
<b>GATES</b>						
	 Wood or Metal Gate	Gates 4, 8, 10, and 12 ft. lengths	1			
A65	 Gate Bracket, pair for 3/4" gate bolt	One A65 per gate	1			
A67	 Gate Post Chain Bracket	One A67 per gate	1			
<b>CHARGER</b>						
	 Electric Fence Charger .25-36 joules for fences .25 - 25 miles long	Battery, Solar and other size chargers also available	1			
	 Ground Rod with clamp	The number of Ground Rods used depends on the type of soil and size of Fence Charger. Generally never less than 2 for the fence and 2 for the Lightning Arrestor.	4			
	 Lightning Arrestor	Minimum of one per electric fence charger	1			
	 110V Surge Protector	One per electric fence charger	1			
	 Insulated hook-up wire, (165 ft. roll)	Add the length of all gates. Multiply by the number of fence wires, then by 2, and then add 2 times the distance from the fence charger to the fence. Divide the total by 165 ft. and round up.	1			
	 Poly-Tube 1" x 100'	Use when running hook-up wires under ground such as gates & from the charger to the fence	1			
	 Tap Sleeves (25/pkg.)	Use to connect hook-up wire to the fence.	1			
	 Electric Fence Warning Sign	Some states require 1 Electric Fence Warning sign every 300 ft. You may want to check with your county or city officials.	6			
<b>TOOLS</b>						
A1TL	 Tool, MULE screw-in anchor, Handle and 2 ft. extension	Used to install the MULE screw-in auger anchors and save it to remove the anchors if you ever decide to move the fence.	1			
	 Spinning Jenny Tool	Used to uncoil the high-tensile wire	1			
	 Crimp Tool	Used to crimp the splice and the tap sleeves.	1			
<b>OTHER ITEMS</b>						
	 Voltage Meter	Used to test proper wiring of fence	1			
						<b>TOTAL PRICE</b>

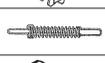
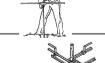
# 6 Foot High Fence Wire

## YOUR FENCE

### SAMPLE FENCE (9 wire)

-  A6C
-  A6E
-  AG66
-  A1R96
-  A1D84
-  A44 Tensioner



ITEM NO.	ITEM DESCRIPTION	QUANTITY TO USE	QUANTITY SAMPLE JOB 9-Wire Fence	QUANTITY YOUR JOB	PRICE EACH	TOTAL PRICE
<b>CORNERS AND ENDS</b>						
A6C	 MULE Corner	Count every 90 degree corner.	3			
A6E	 MULE End	Use wherever the fence changes direction or stops and an A6C Mule Corner is not used, and at every gate.	6			
AG66	 Gate Brace	Use to stabilize A6E with attached gate.	2			
<b>DIP AND RIDGE POSTS</b>						
A1D84	 Fiberglass Dip Post, 7/8" x 84" with Mule Anchor, drilled.	Use at bottom of a valley, dip or hill	1			
A1R96	 Fiberglass Ridge Post, 7/8" x 96" with plate and pin, drilled.	Use at the top of a valley, dip or hill	2			
<b>LINE POSTS</b>						
A142-D	 Fiberglass line post 7/8"x96" Drilled	Divide total footage by 30 and round up.	176			
A40	 U-Clips (20/pkg.)	Multiply the number of wires by the number of line posts, divide by 20 and round up.	80			
<b>WIRE</b>						
	 Wire, 12½ ga., 200,000+psi High-tensile coil of 2,000 ft.	Multiply the total footage of the fence by the number of wires, divide by 2,000 and round up.	24			
	 Wire Tensioner	Use one per run of wire. Consult drawing/information. See page 4 in planner.	27			
	 Wire Tensioner Indicator Spring	Optional. Use 1 per set of tensioners to set tension at 150-200 lbs. per wire. Set other wires by feel.	3			
	 Crimp Sleeve (100/pkg.)	Add number of tensioners, and number of coils of wire, multiply by 5, and divide the total by 100 and round up.	13			
<b>GATES</b>						
	 Wood or Metal Gate	Gates 4, 8, 10., and 12 ft. lengths	1			
A65	 Gate Bracket, pair for ¾" gate bolt	One A65 per gate	1			
A67	 Gate Latch	One A67per gate	1			
<b>CHARGER</b>						
	 Electric Fence Charger .25-36 joules for fences .25 - 25 miles long	Battery, Solar and other size chargers also available	1			
	 Ground Rod with clamp	The number of Ground Rods used depends on the type of soil and size of Fence Charger. Generally never less than 2 for the fence and 2 for the Lightning Arrestor.	4			
	 Lightning Arrestor	Minimum of one per electric fence charger	1			
	 110V Surge Protector	One per electric fence charger	1			
	 Insulated hook-up wire, (165 ft. roll)	Add the length of all gates. Multiply by the number of fence wires, then by 2, and then add 2 times the distance from the fence charger to the fence. Divide the total by 165 ft. and round up.	1			
	 Poly-Tube 1" x 100'	Use when running hook-up wires under ground such as gates & from the charger to the fence	1			
	 Tap Sleeves (25/pkg.)	1 sleeve per hook-up connection. 1 pkg. is usually enough.	1			
	 Electric Fence Warning Sign	Some states require 1 Electric Fence Warning sign every 300 ft. You may want to check with your county or city officials.	6			
<b>TOOLS</b>						
A1TL	 Tool, MULE screw-in anchor, Handle and 2 ft. extension	Used to install the MULE screw-in auger anchors and save it to remove the anchors if you ever decide to move the fence.	1			
	 Spinning Jenny Tool	Used to uncoil the high-tensile wire	1			
	 Crimp Tool	Used to crimp the splice and the tap sleeves.	1			
<b>OTHER ITEMS</b>						
	 Voltage Meter	Used to test proper wiring of fence	1			
						<b>TOTAL PRICE</b>