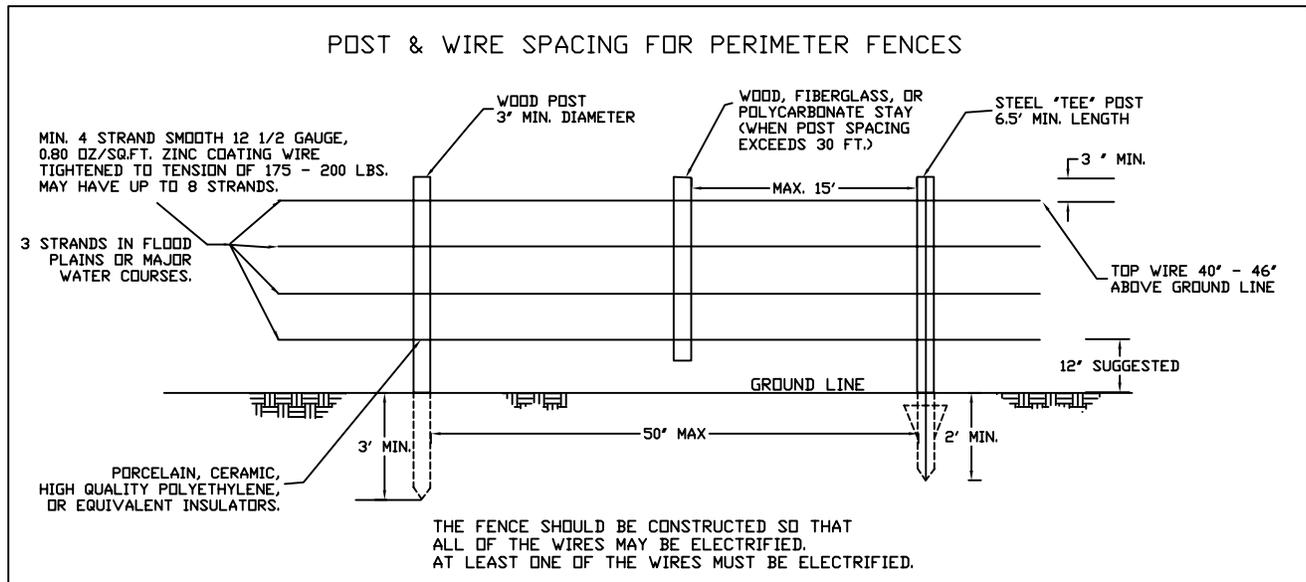


PERMANENT POWER FENCE DETAILS



POSTS

WOOD POSTS

WOOD POSTS SHALL BE OF RED CEDAR, BLACK LOCUST, REDWOOD, PRESSURE TREATED PINE, OR OTHER WOOD OF EQUAL LIFE OR STRENGTH.

ALL WOOD POSTS EXCEPT RED CEDAR, BLACK LOCUST, REDWOOD, WHITE OAK, AND BURR OAK SHALL BE TREATED WITH CREOSOTE, PENTACHLOROPHENAL, OR COPPER CHROMATE ARSENATE (CCA) BY A METHOD SUCH THAT COMPLETE SATURATION OF THE SAPWOOD IS OBTAINED.

POSTS SHALL BE SOUND, NEW, AND FREE FROM DECAY WITH ALL LIMBS TRIMMED FLUSH WITH BODY.

USED RAILROAD TIES IN SOUND CONDITION MAY BE UTILIZED FOR POSTS IF FREE FROM EXCESSIVE CRACKING OR DECAY.

STEEL "TEE" POSTS

STEEL "TEE" WITH SUITABLE CORRUGATIONS, KNOBS, STUDS, OR GROOVES FOR FASTENING LINE WIRES CAN BE USED.

WIRE CLIPS WILL BE AS PROVIDED BY THE MANUFACTURER OR GALVANIZED WIRE, MIN. 12 GAUGE WILL BE USED.

EACH POST WILL HAVE AN ANCHOR PLATE ATTACHED.

THE POSTS WILL BE EITHER GALVANIZED OR PAINTED.

MIN. WT. : 133 LBS PER FOOT

MIN. LENGTH: 6.5 FEET

MIN. DEPTH INTO GROUND: 2 FEET

FIBERGLASS OR POLYCARBONATE POSTS

FIBERGLASS OR POLYCARBONATE POSTS CAN BE USED THEY SHALL BE AT LEAST 7/8" DIAMETER WITH ULTRAVIOLET PROTECTIVE COATING TO PROVIDE A 20 YEAR GUARANTEED LIFE AGAINST SPLINTERING OR DETERIORATING FROM SUNLIGHT OR WEATHER.

THEY SHALL BE SET TO A MIN. DEPTH OF 18".

POSTS WILL BE DRIVEN INTO THE GROUND.

LIGHTNING PROTECTION

TO REDUCE THE RISK DAMAGE, AN INDUCTION COIL MUST BE INSTALLED BETWEEN THE ENERGIZER AND THE FENCE. THIS INDUCTION COIL IS OFTEN REFERRED TO AS A LIGHTNING CHOKE. ADDITIONAL LIGHTNING PROTECTION IS PROVIDED BY ATTACHING LIGHTNING DIVERTERS/ARRESTORS TO THE FENCE AND TO A 6 FT. LONG GALVANIZED ROD DRIVEN INTO THE GROUND. THIS GROUND ROD MUST BE LOCATED AT LEAST 65 FT. FROM THE GROUND RODS FOR THE ENERGIZER.

INTERIOR FENCES

MUST USE THE SAME WIRE AND POSTS AS THE PERIMETER FENCE. THEY MAY HAVE A SINGLE STRAND OF WIRE OR AS MANY AS 8 STRANDS OF WIRE, DEPENDENT UPON THE KIND AND CLASS OF LIVESTOCK.

ENERGIZERS

ELECTRONIC ENERGIZERS OR POWER FENCE CONTROLLERS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND WILL MEET THE FOLLOWING MINIMUM REQUIREMENTS.

- HIGH POWER, LOW IMPEDANCE WITH A 5,000 VOLT PEAK OUTPUT AND A PULSE THAT IS LESS THAN 300 MILLIAMPS IN INTENSITY, FINISHED WITHIN 0.0003 OF A SECOND, AND AT A RATE OF 35-65 PULSES PER MINUTE.
- SOLID STATE CIRCUITRY.
- SAFETY PACE FUSE, TO PREVENT OVERPULSING.
- HIGH IMPACT, WEATHER RESISTANT CASE.
- JOULE RATING HIGH ENOUGH TO PROVIDE A MINIMUM SHOCK OF 2000 VOLTS FOR CATTLE, 3000 VOLTS FOR SHEEP AT THE POINT FARTHEST FROM THE ENERGIZER.
- BATTERY POWERED UNITS OF 3 JOULES OR MORE SHALL HAVE A SOLAR PANEL ATTACHED TO CHARGE THE BATTERY.

EARTH RETURN (GROUND RODS)

THE ENERGIZER GROUND WIRE MUST BE CONNECTED TO A GALVANIZED ROD 1/2 INCH OR LARGER IN DIAMETER, DRIVEN INTO THE GROUND A MINIMUM OF 6 FT. FOR EACH JOULE OF ENERGY OUTPUT. MULTIPLE EARTH RETURN RODS CONNECTED IN SERIES MAY BE USED, BUT THEY MUST BE SPACED AT LEAST 10 FT. FROM EACH OTHER. A MINIMUM OF 3 EARTH RETURN RODS ARE REQUIRED FOR ALL PERMANENT POWER FENCES. FOR BEST RESULTS EARTH RETURN RODS SHOULD BE INSTALLED IN AN AREA WHERE THE SOIL REMAINS MOIST. DO NOT USE COPPER GROUND RODS DUE TO CORROSION AT THE CONNECTION AND THE SUBSEQUENT LOSS OF ELECTRICAL CONTINUITY. TO PREVENT STRAY VOLTAGE, EARTH RETURN RODS MUST BE AT LEAST 65' FROM ELECTRIC UTILITY GROUND RODS, BURIED WATER PIPES, AND BURIED TELEPHONE LINES.

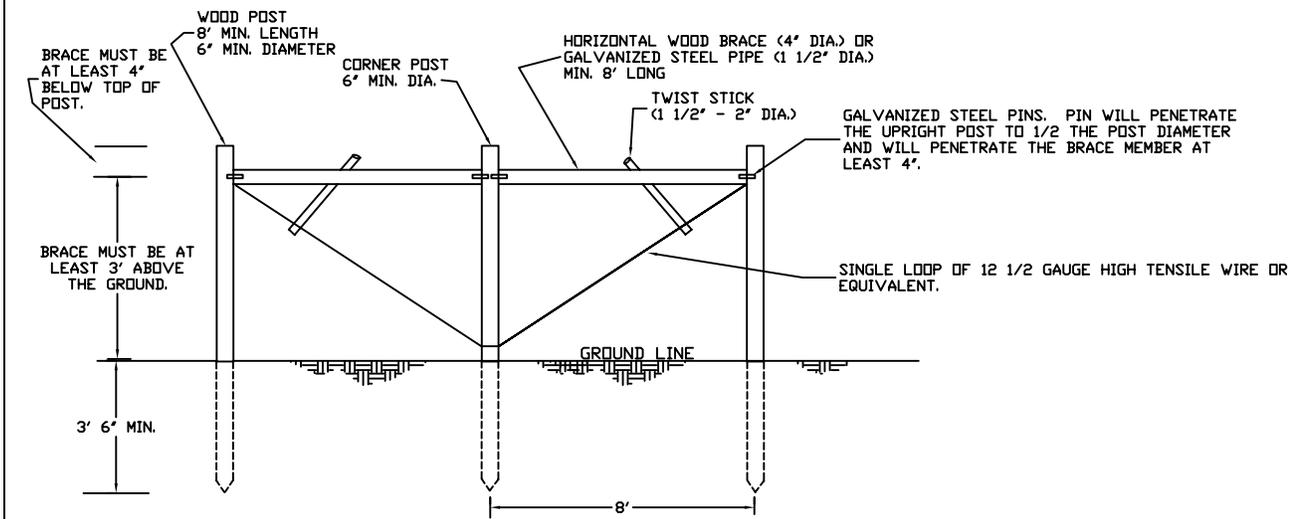
PERMANENT FENCE DETAILS

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

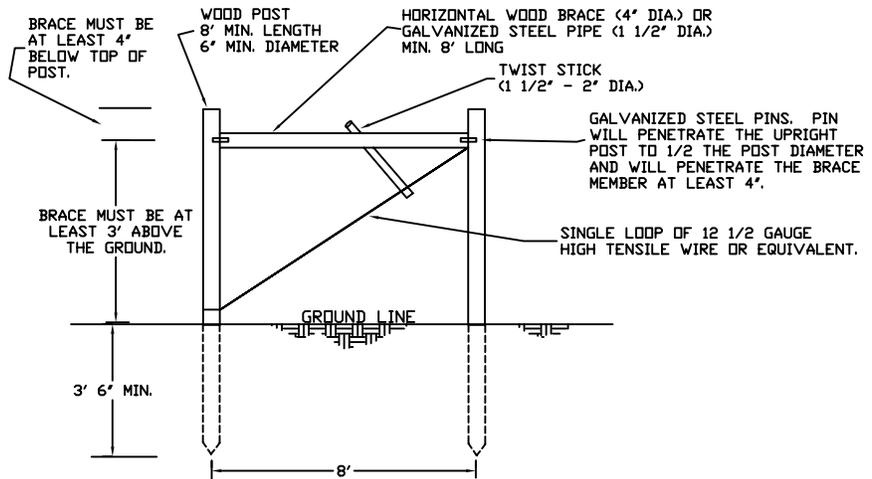
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CORNER, PULL, AND END ASSEMBLIES FOR PERMANENT POWER FENCES

CORNER BRACE OR PULL ASSEMBLY



END ASSEMBLY



CORNERS ARE REQUIRED AT ALL POINTS WHERE THE FENCE ALIGNMENT CHANGES 15 DEGREES OR MORE.

END BRACING IS REQUIRED WHERE THE FENCE ENDS, AND ON BOTH SIDES OF GATE OPENINGS.

PULL ASSEMBLIES ARE REQUIRED IN STRAIGHT SECTIONS OF THE FENCE SO THAT THE MAXIMUM DISTANCE BETWEEN BRACE POSTS DOES NOT EXCEED 2640 FEET.

CORNER, PULL, AND END ASSEMBLIES FOR PERMANENT POWER FENCES

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

ALL BRACE ASSEMBLY POSTS WILL BE DRIVEN INTO THE GROUND OR SET IN CONCRETE TO AVOID DISPLACEMENT WHEN TENSION IS APPLIED TO THE WIRES.

NOTE: _____

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