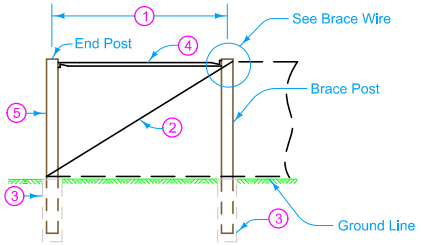
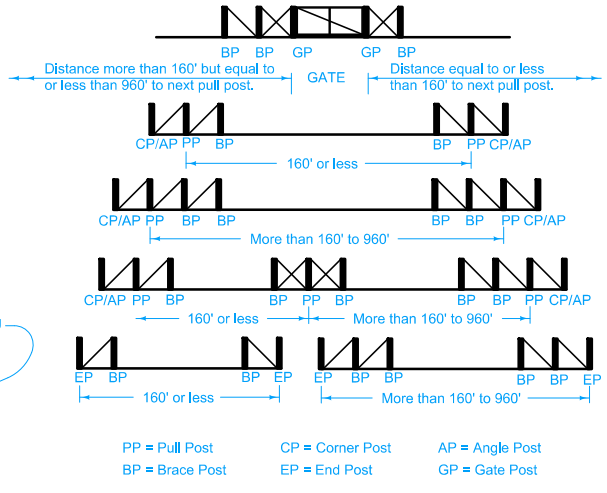
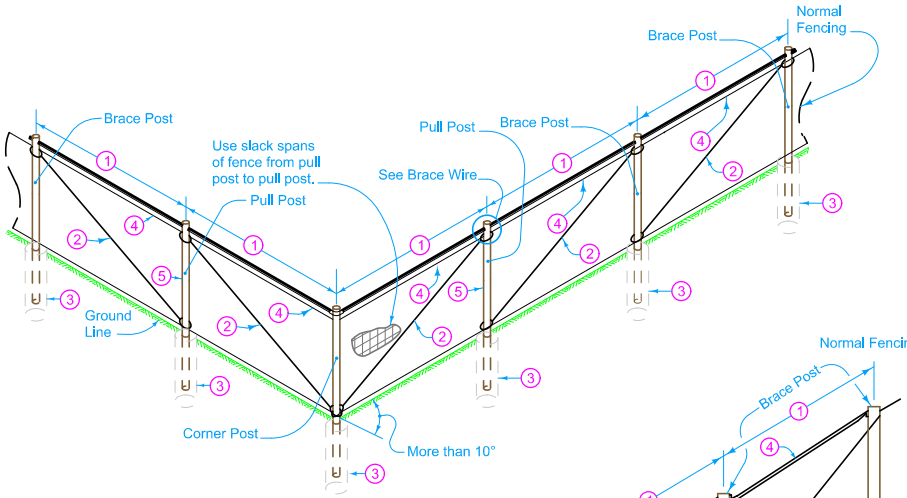
DESIGNER INFO



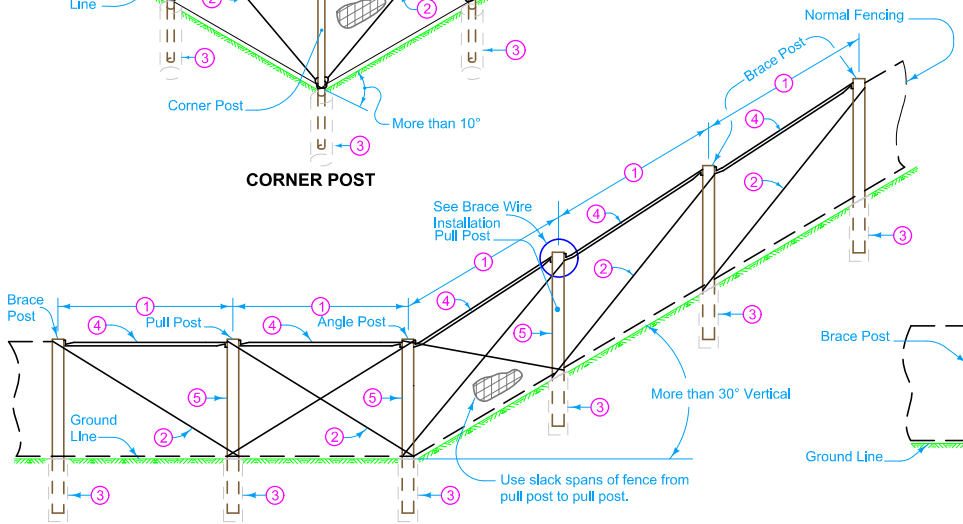
END POST



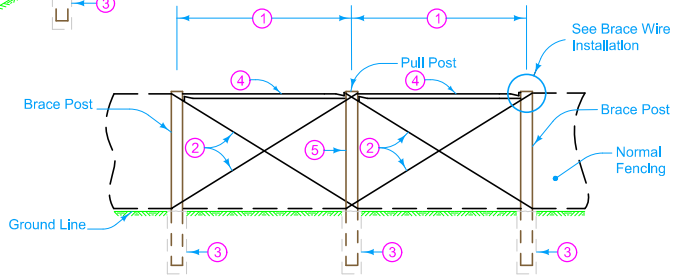
BRACE PANEL LAYOUT



CORNER POST



ANGLE POST



PULL POST (6)

Double wrap barbed wire and tie off at end posts, corner posts, and line brace posts. Single wrap woven wire and tie off. Restart fence to be continued, in like manner.

Fence wire fabric may be placed on either the road side or the field side of posts, depending on local conditions; i.e., on curves, the wire should be placed on the side which would result in the least amount of tension on the staples. This will also apply where wind, drift, or other conditions would exert unusual pressure against the wire.

Refer to MI-104 for fencing at Channel Crossings, Minor Groud Depressions, and Flood Plains.

(1) Brace Panel.

(2) Brace Wire: 4 strands of No. 9 wire.

(3) Details indicate placement of granular material for certain posts. The Contractor has the option to drive posts if method demonstrated is satisfactory to the Engineer. Granular material will not be required for driven posts.

(4) Metal brace 8 feet long.

(5) Wrap wire fabric around post.

(6) Pull Post Assembly is required when the distance between pull posts is greater than 960 feet in straight lines of fence.

Possible Contract Items:
- Deer Fence
- Deer Fence Brace Panels
- Deer Fence Gate
- Field Fence
- Field Fence Brace Panel
- Field Fence Gate

Possible Tabulation:
- 100-7

IOWA DOT

STANDARD ROAD PLAN

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MI-103

SHEET 1 of 7

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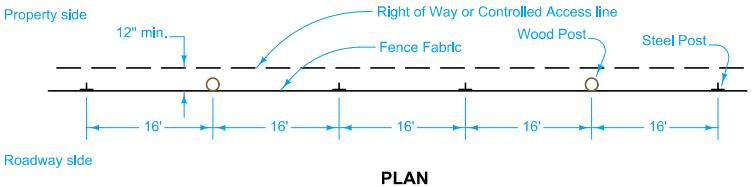
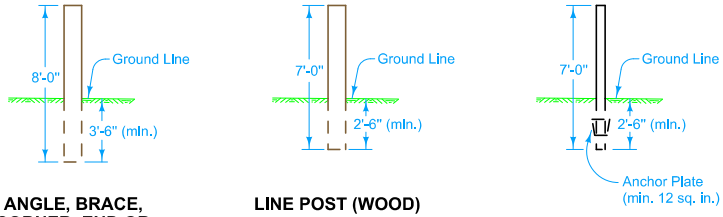
DEER FENCE AND FIELD FENCE CONSTRUCTION



PLAN

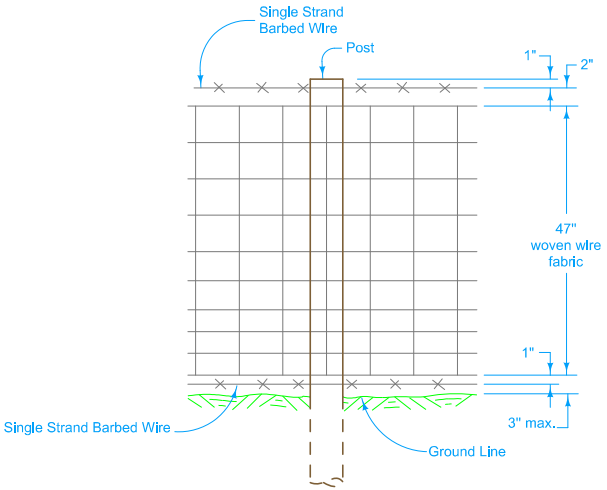
FIELD FENCE



ANGLE, BRACE, CORNER, END OR PULL POST (WOOD)

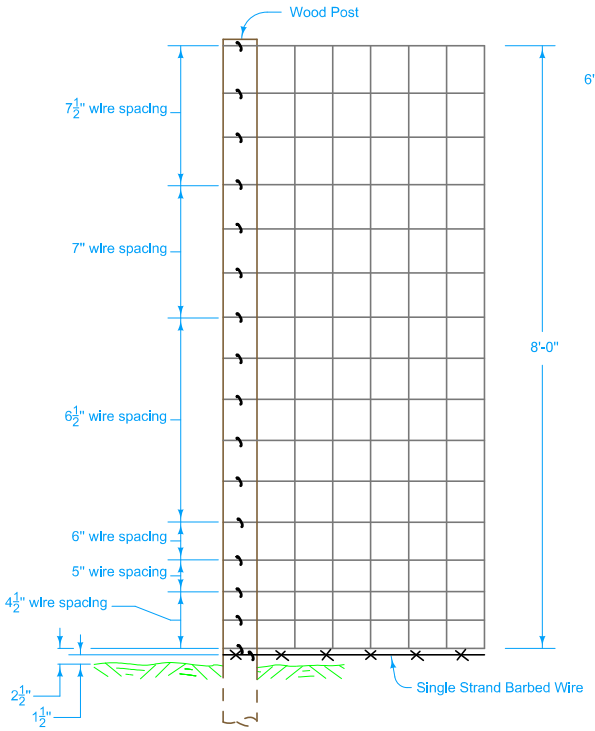
LINE POST (WOOD)

LINE POST (STEEL)

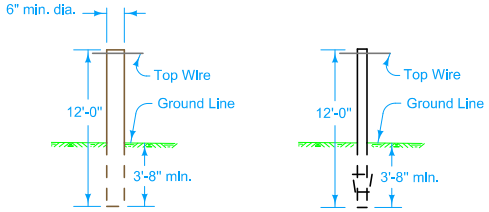


ELEVATION

DEER FENCE



ELEVATION



WOOD POST

STEEL POST

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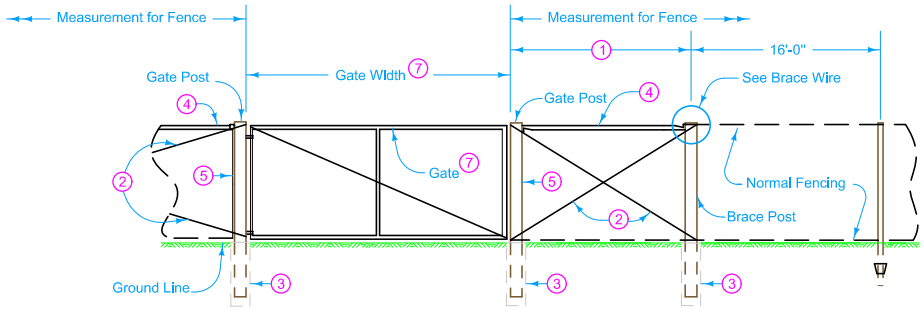
DEER FENCE AND FIELD FENCE CONSTRUCTION



FIELD FENCE GATE

(1) Brace Panel.

(2) Brace Wire: 4 strands of No. 9 wire.

(3) Details indicate placement of granular material for certain posts. The Contractor has the option to drive posts if method demonstrated is satisfactory to the Engineer. Granular material will not be required for driven posts.

(4) Metal brace 8 feet long.

(5) Wrap wire fabric around post.

(7) Unless specified otherwise, install a 16 foot gate. Double gate is required only for widths more than 16 feet. Exact details of gate design are subject to the approval of the Engineer. Install as recommended by the manufacturer.

IOWA DOT

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STANDARD ROAD PLAN

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SHEET 3 of 7

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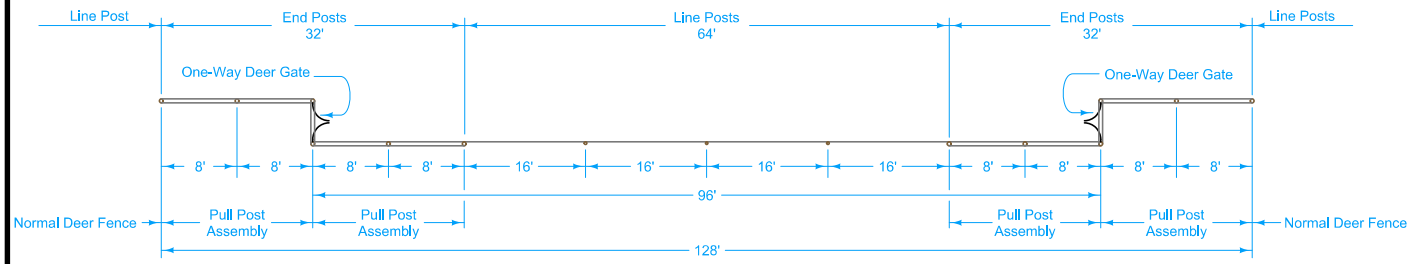
DEER FENCE AND FIELD FENCE CONSTRUCTION



PLAN

8 Spring loaded hinge allows tines to spread apart and return to original position.

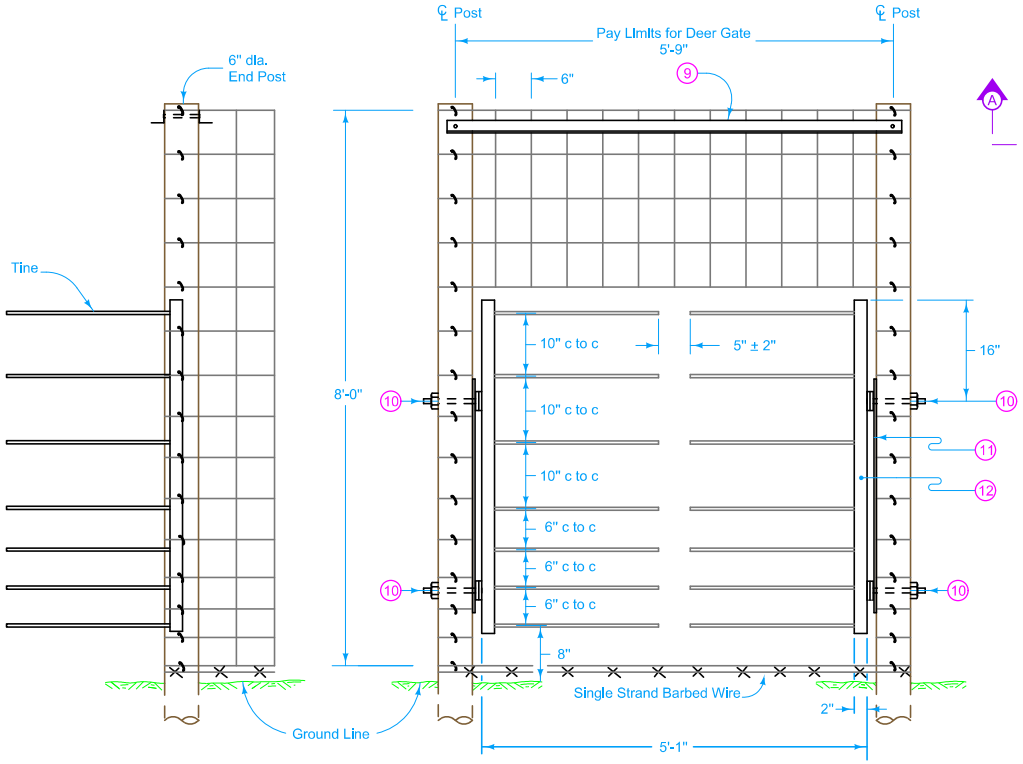
9 Two 2 in. x 2 in. x $\frac{1}{8}$ in. L top braces held by $\frac{1}{2}$ inch diameter bolts.

10 Attach nut and washer to each bolt.

11 Support Plate 3 in. x $\frac{5}{16}$ in. x 37 in.

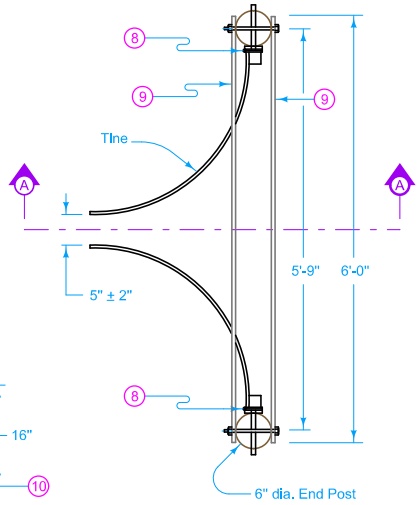
12 2 in. x 2 in. x 54 in. structural steel tubing welded to Hinge Plate.

13 $\frac{3}{4}$ in. diameter x 8 in. bolt welded to Support Plate

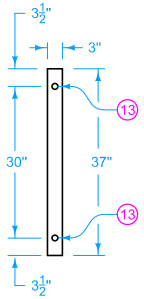


SECTION A-A

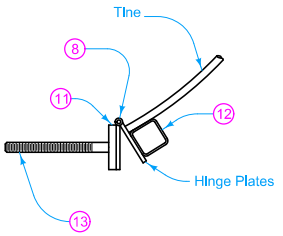
PROFILE



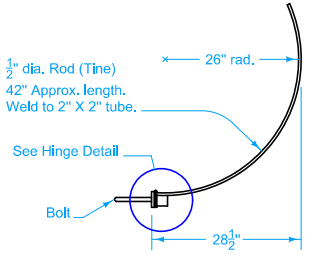
DEER GATE TOP



SUPPORT PLATE



HINGE



TINE

DEER GATE

IOWA DOT

STANDARD ROAD PLAN

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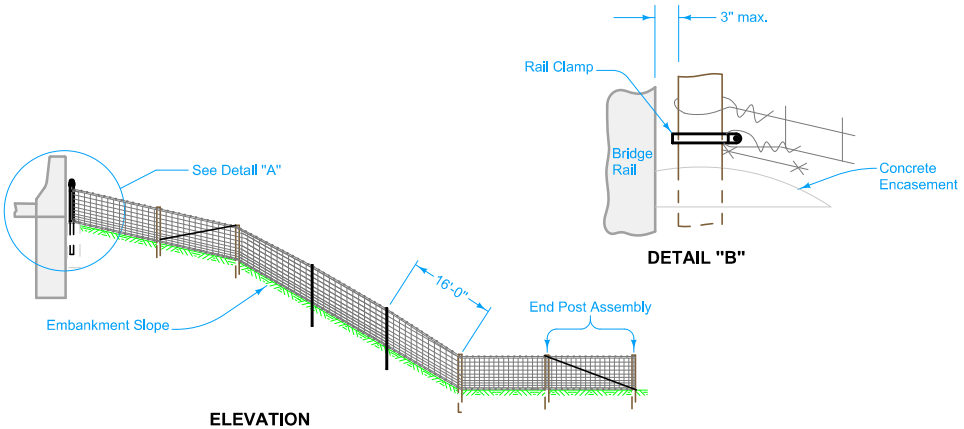
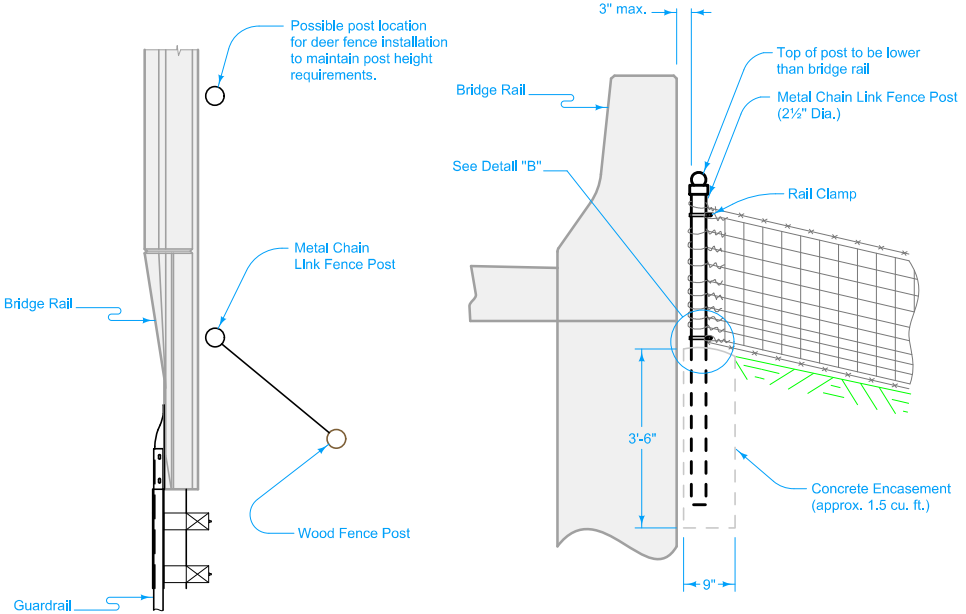
DEER FENCE AND FIELD FENCE CONSTRUCTION



ELEVATION

DETAIL "B"



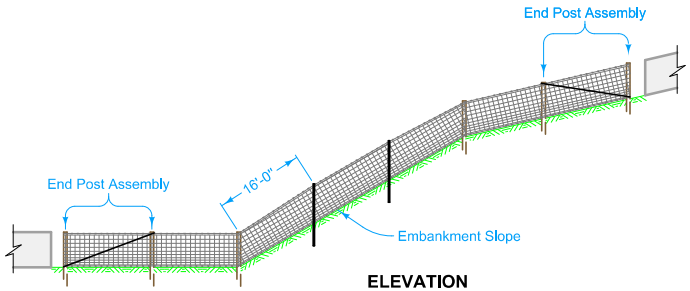
PLAN

DETAIL "A"

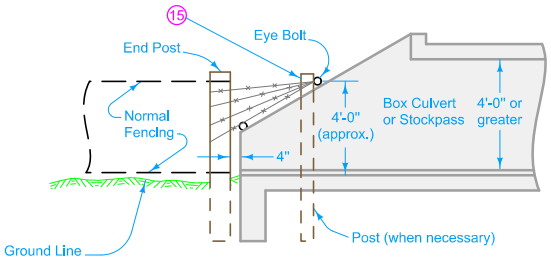
FENCE TERMINATION AT BRIDGES (14)

(14) Fence termination at bridges, culverts, and other structures as detailed hereon will not be paid for separately but will be considered incidental to the bid item "Deer Fence" or "Field Fence."

(15) Place minimum of four (4) barbed wires fan shaped, connected to eye bolt on culvert wall or set 4 inch post when necessary.



ELEVATION



BOX CULVERTS OR STOCK PASSES 4 FEET OR LARGER

FENCE TERMINATION AT STRUCTURES (15)

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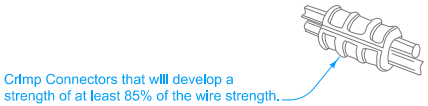
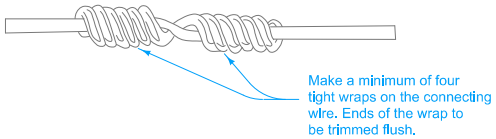
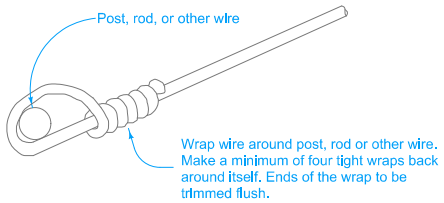
DEER FENCE AND FIELD FENCE CONSTRUCTION



CRIMP CONNECTION

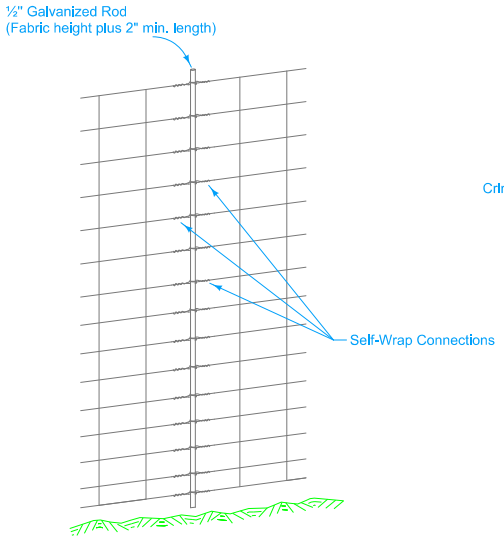


IN-LINE CONNECTION

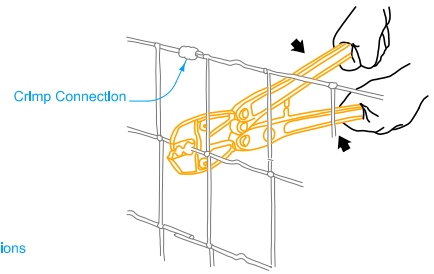


SELF-WRAP CONNECTION

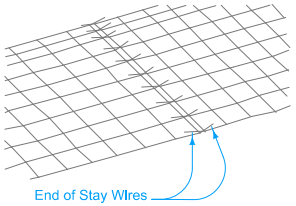
APPROVED WIRE CONNECTIONS

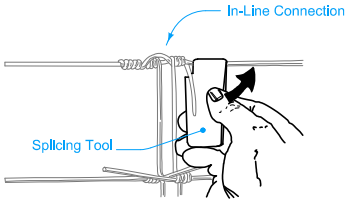


SPLICE WITH ROD



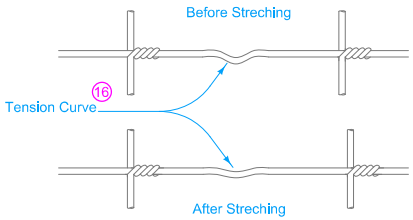
CRIMP SPLICE



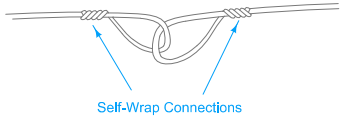


OVERLAP SPLICE

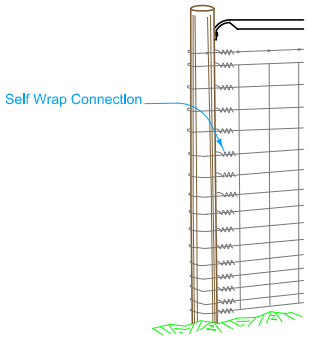
FABRIC SPLICES



STRETCHING DETAILS



BRACE WIRE SPLICE 17



END POST CONNECTION

FENCE ASSEMBLY

16 Tension curve consists of a "U" shaped crimp in the fence wires and has the same effect as a spring. Stretch to 50% removal of the factory crimp.

17 Crimp connection and in-line connection are also acceptable brace wire splices.

IOWA DOT

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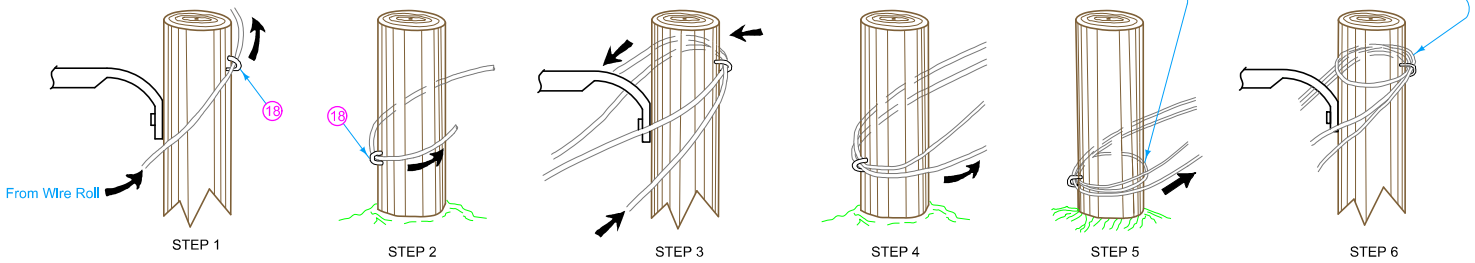
DEER FENCE AND FIELD FENCE CONSTRUCTION

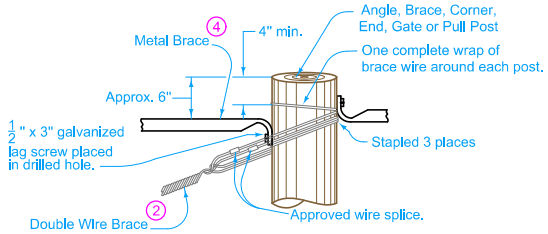


(2) Brace Wire: 4 strands of No. 9 wire.

(4) Metal brace 8 feet long.

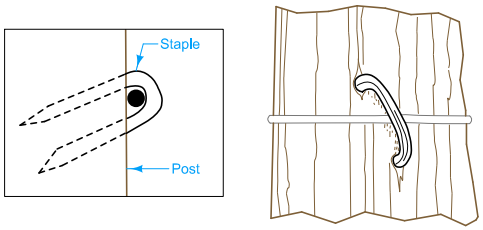
(18) Set staples cross-wise to the grain. Drive staples tight at pull posts. Drive all other staples firm, but loose enough to allow lateral movement of the wire.

(19) Twist the two brace wires together to produce proper tension in the brace assembly.



BRACE WIRE INSTALLATION (19)

(Brace wire wrapped the same at the bottom of post.)



STAPLES (18)

WIRE ASSEMBLY

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DEER FENCE AND FIELD FENCE CONSTRUCTION