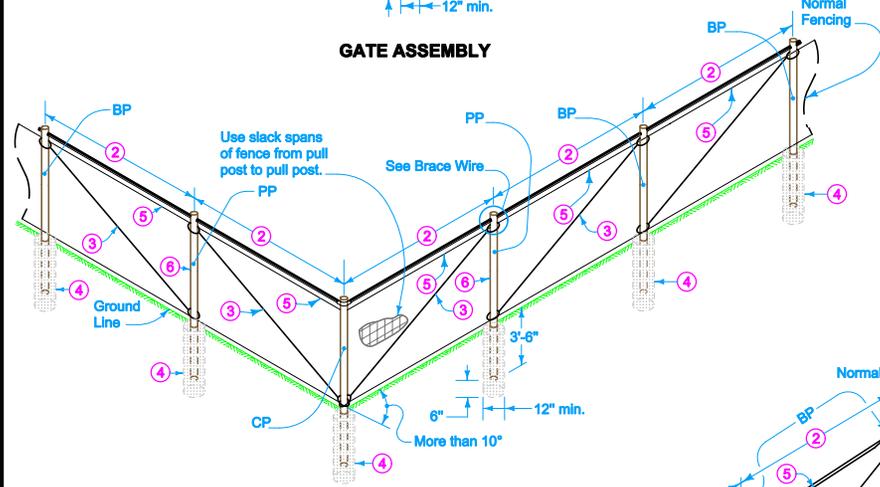
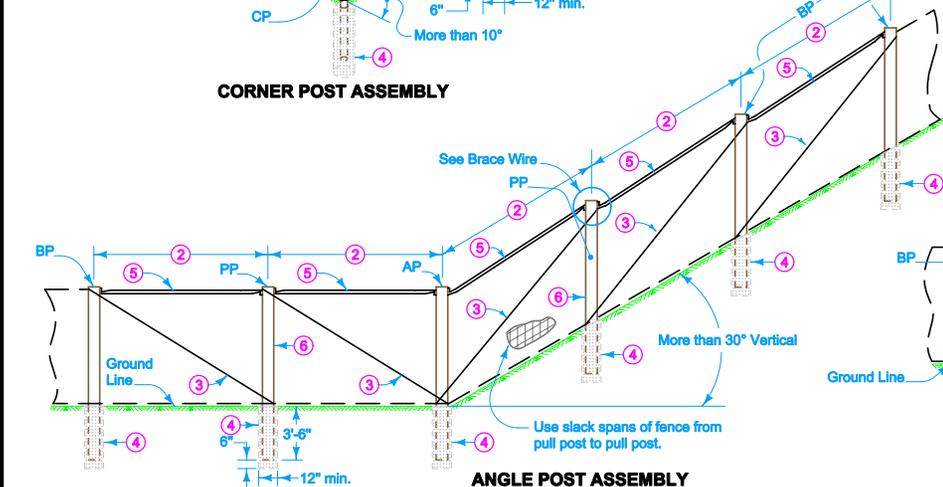


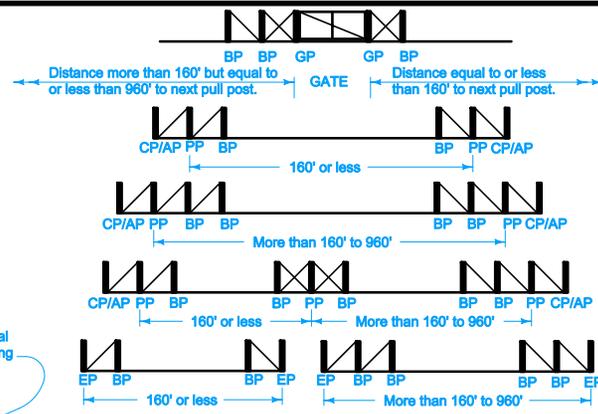
**GATE ASSEMBLY**



**CORNER POST ASSEMBLY**

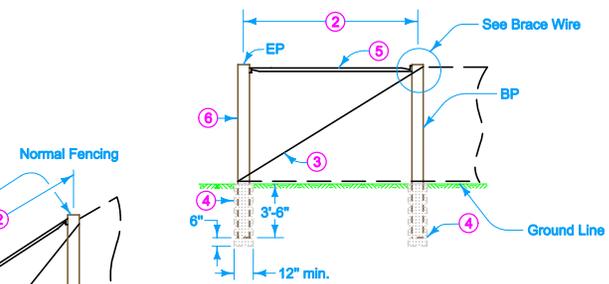


**ANGLE POST ASSEMBLY**

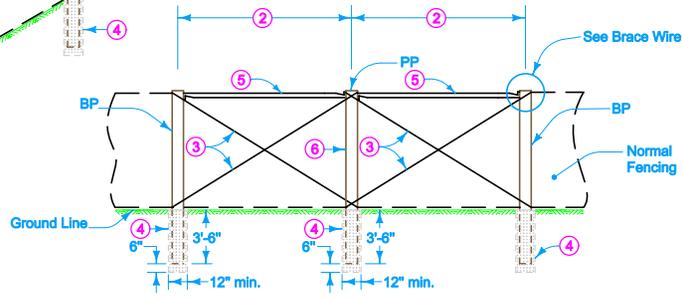


**BRACE PANEL LAYOUT**

PP = Pull Post  
BP = Brace Post  
CP = Corner Post  
EP = End Post  
AP = Angle Post  
GP = Gate Post



**END POST ASSEMBLY**



**PULL POST ASSEMBLY**

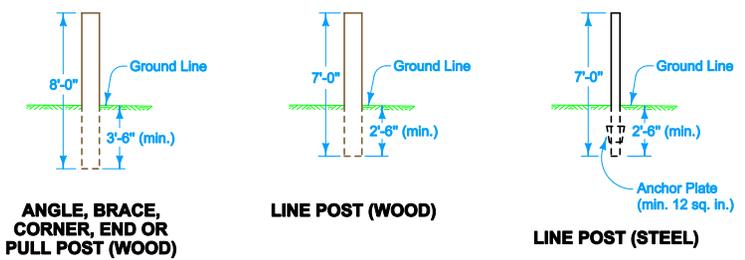
- ① Unless specified otherwise, install a 16 foot gate. Double gate is required only for widths more than 16 feet. Exact details of gate design are subject to the approval of the Engineer. Install as recommended by the manufacturer.
- ② Brace Panel.
- ③ Brace Wire: 4 strands of No. 9 wire.
- ④ Details 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.
- ⑤ Metal brace 8 feet long.
- ⑥ Wrap wire fabric around post.
- ⑦ Pull Post Assembly is required when the distance between pull posts is greater than 960 feet in straight lines of fence.

Possible Contract Items:  
 Field Fence  
 Field Fence Brace Panel  
 Field Fence Gate  
 Flood Plain Fencing  
 Type A Channel Crossing Fence  
 Type B Channel Crossing Fence

Possible Tabulations:  
 100-7

 <b>Iowa Department of Transportation</b>	REVISION
	New 04-20-10
<b>STANDARD ROAD PLAN</b>	<b>MI-103</b>
SHEET 1 of 5	
REVISIONS: New. Replaces RC-8A, RC-8B, RC-9A, RC-9B.	
<i>Deanna Mifflin</i> <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
<b>FIELD FENCE CONSTRUCTION</b>	

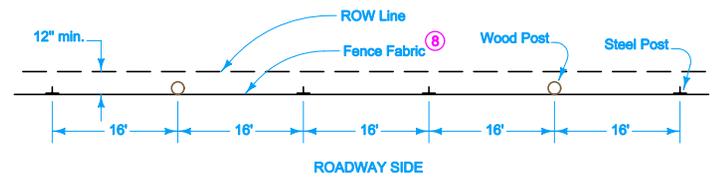
**FIELD FENCE ASSEMBLY**



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

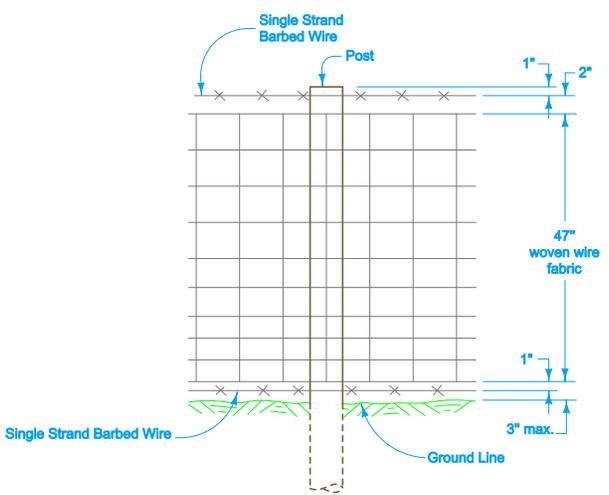
**LINE POST (WOOD)**

**LINE POST (STEEL)**

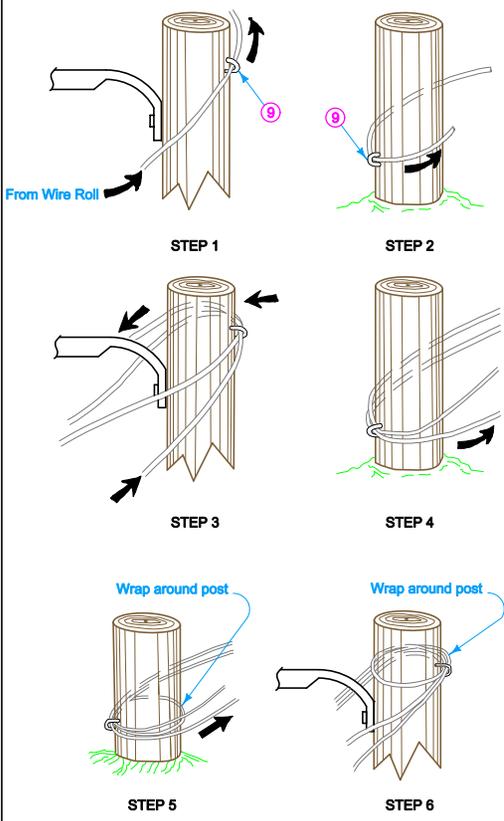


**ROADWAY SIDE**

**PLAN**



**ELEVATION**



**STEP 1**

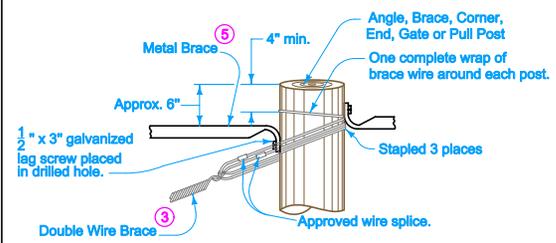
**STEP 2**

**STEP 3**

**STEP 4**

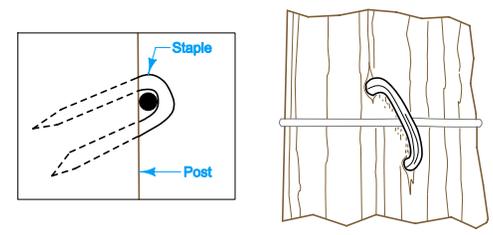
**STEP 5**

**STEP 6**



**BRACE WIRE INSTALLATION (10)**

- (3) Brace Wire: 4 strands of No. 9 wire.
- (5) Metal brace 8 feet long.
- (8) Place fence fabric on the roadway side of posts. Place fence fabric on the opposite side of posts for certain curves, stream crossings, or other locations directed by the Engineer or by the contract documents.
- (9) 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.
- (10) Twist the two brace wires together to produce proper tension in the brace assembly.

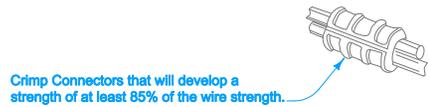


**STAPLES (9)**

**FIELD FENCE ASSEMBLY**

<p><b>Iowa Department of Transportation</b></p> <p><b>STANDARD ROAD PLAN</b></p> <p>REVISIONS: New. Replaces RC-8A, RC-8B, RC-9A, RC-9B.</p>	REVISION New 04-20-10
	<p><b>MI-103</b></p> <p>SHEET 2 of 5</p>
	<p><i>Deanna Mifflin</i></p> <p>APPROVED BY DESIGN METHODS ENGINEER</p>

**FIELD FENCE CONSTRUCTION**



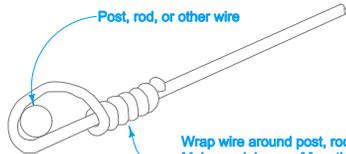
Crimp Connectors that will develop a strength of at least 85% of the wire strength.

**CRIMP CONNECTION**



Make a minimum of four tight wraps on the connecting wire. Ends of the wrap to be trimmed flush.

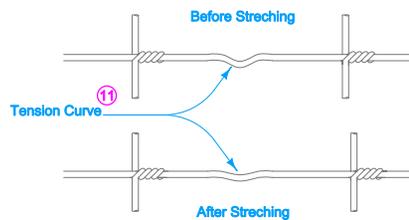
**IN-LINE CONNECTION**



Wrap wire around post, rod or other wire. Make a minimum of four tight wraps back around itself. Ends of the wrap to be trimmed flush.

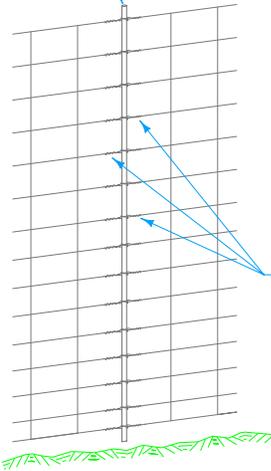
**SELF-WRAP CONNECTION**

**APPROVED WIRE CONNECTIONS**

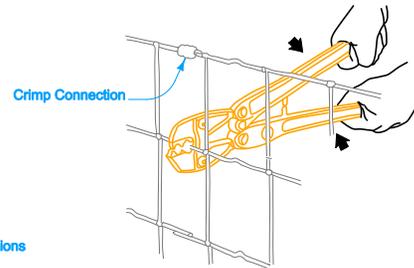


**STRETCHING DETAILS**

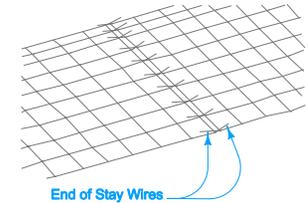
1/2" Galvanized Rod (49" min. length)



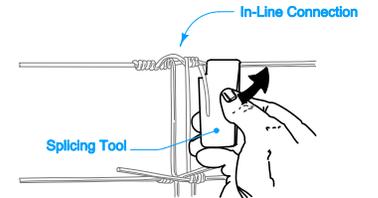
**SPLICE WITH ROD**



**CRIMP SPLICE**



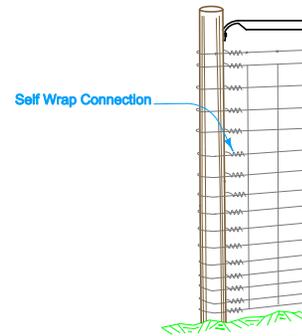
**FABRIC SPLICES**



**OVERLAP SPLICE**



**BRACE WIRE SPLICE (12)**



**END POST CONNECTION**

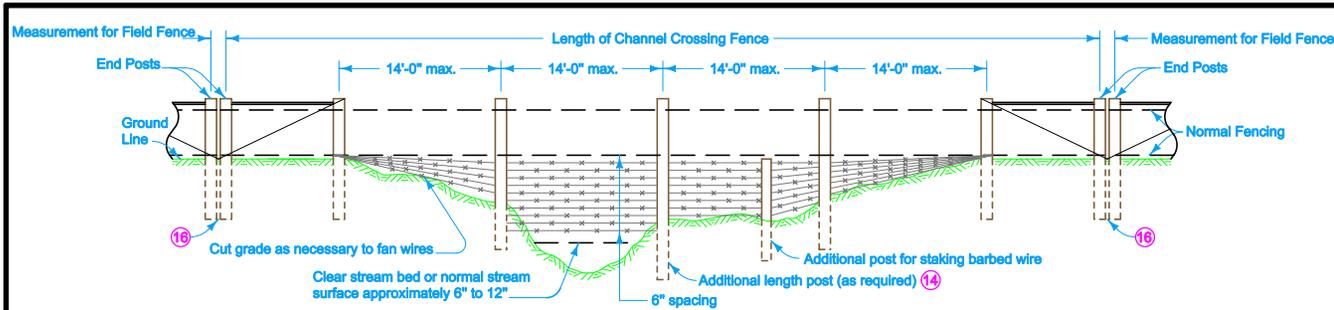
- (11) Tension curve consists of a "U" shaped crimp in the fence wires and has the same effect as a spring. Stretch to 50% removal of the factory crimp.
- (12) Crimp connection and in-line connection are also acceptable brace wire splices.

**FIELD FENCE ASSEMBLY**

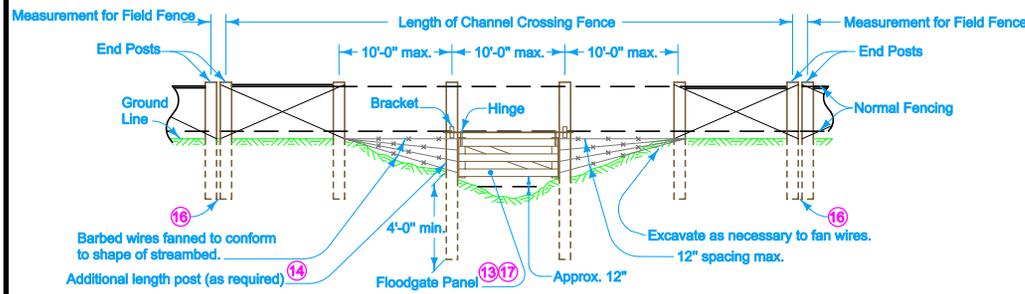
<p>Iowa Department of Transportation</p> <p><b>STANDARD ROAD PLAN</b></p> <p>REVISIONS: New. Replaces RC-8A, RC-8B, RC-9A, RC-9B.</p>	REVISION
	New 04-20-10
<b>MI-103</b>	SHEET 3 of 5

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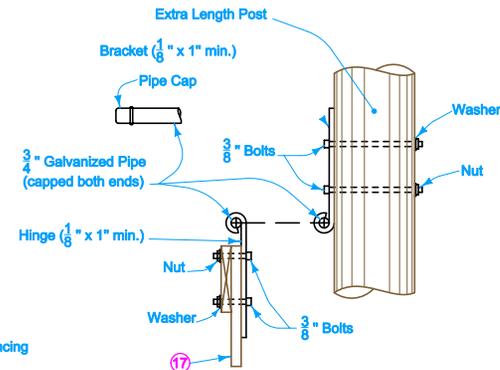
**FIELD FENCE CONSTRUCTION**



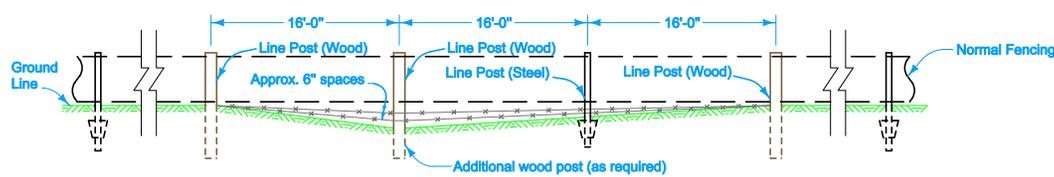
**CHANNEL CROSSING FENCE - TYPE "A"**



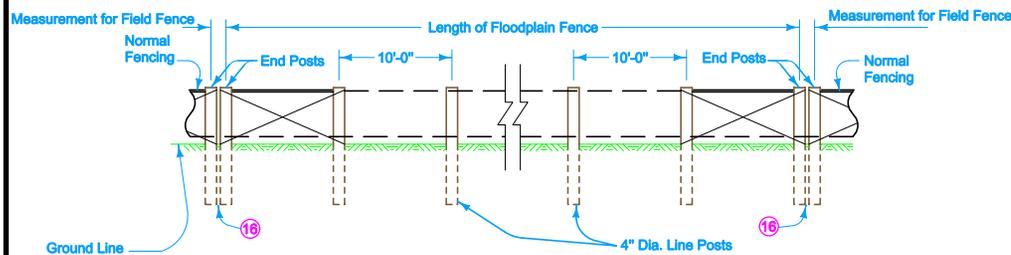
**CHANNEL CROSSING FENCE - TYPE "B"**



**FLOODGATE HINGE AND BRACKET**



**LINE FENCE AT MINOR GROUND DEPRESSIONS** 15



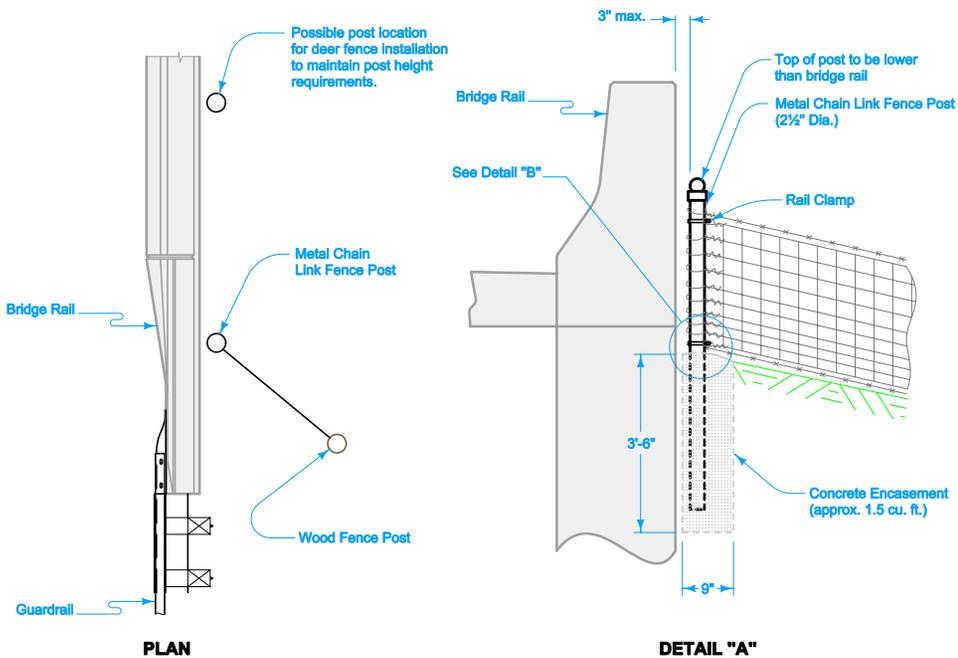
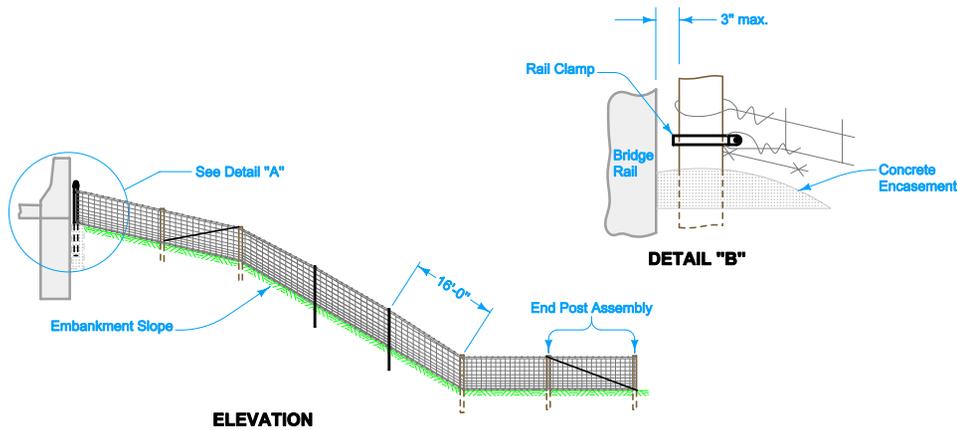
**FLOOD PLAIN FENCE**

**FIELD FENCE AT WATERWAYS**

- 13 Floodgate is part of the Type 'B' Channel Crossing Fence.
- 14 All extra length posts more than 8 feet long require a minimum embedment of 4 feet. For Flood Plain Fencing, install line posts of treated wood, 4 inches minimum diameter, 8 feet long and spaced at 10 foot centers. Maximum interval of Pull Posts Assembly is 600 feet.
- 15 For fence at minor ground depressions, additional wood line posts and up to two additional barbed wires will not be paid for directly but will be considered incidental to the price bid for Field Fence.
- 16 Provide a minimum of 12 to 15 inches of clear space between adjoining end post installations.
- 17 Floodgate Panel built from Untreated Rough 1 in. x 8 in. (Nominal) Lumber. More than one Floodgate Panel if required by the contract documents.

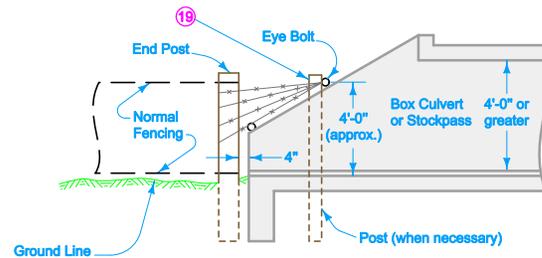
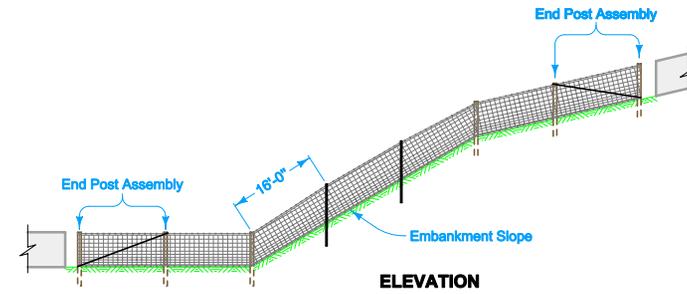
 Iowa Department of Transportation	REVISION
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<b>STANDARD ROAD PLAN</b>	<b>MI-103</b>
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SHEET 4 of 5	

**FIELD FENCE CONSTRUCTION**



**FENCE TERMINATION AT BRIDGES** <sup>18</sup>

- <sup>18</sup> 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 "Field Fence" or "Deer Fence."
- <sup>19</sup> Place minimum of four (4) barbed wires fan shaped, connected to eye bolt on culvert wall or set 4 inch post when necessary.



**BOX CULVERTS OR STOCK PASSES 4 FEET OR LARGER**

**FENCE TERMINATION AT STRUCTURES** <sup>19</sup>

 Iowa Department of Transportation	REVISION	
	New	04-20-10
<b>STANDARD ROAD PLAN</b>		<b>MI-103</b>
REVISIONS: New. Replaces RC-8A, RC-8B, RC-9A, RC-9B.		SHEET 5 of 5

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**FIELD FENCE CONSTRUCTION**