GENERAL NOTES

I. ALL MATERIAL DIMENSIONS AND WEIGHTS ON THIS STANDARD ARE NOMINAL

1. POSTS:
   - DRIVEWAY GATES (SINGLE):
     - WEIGHT: NOT LESS THAN 90 LBS. COMPLETE WITH LATCH AND HINGES.

2. AT EACH LOCATION WHERE AN ELECTRIC TRANSMISSION, DISTRIBUTION OR SECONDARY LINE CROSSES A WOOD POST FENCE, THE CONTRACTOR SHALL FURNISH AND INSTALL A GROUND CONFORMING TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. THE GROUND SHALL BE SUFFICIENT TO RESIST MOVEMENT OF POST WEIGHT: 0.67 LB.

   - TYPE: 2 1/2 IN. x 2 1/2 IN. x 8 FT. MINIMUM DIAMETER OF THE GROUND ROD AND 8 FT. IN LENGTH, AND DRIVEN INTO THE SOIL. THE GROUND ROD SHALL BE OF ALL-WEALED CONSTRUCTION.

3. ALTERNATIVE DRIVEWAY GATES (SINGLE PANEL):
   - WEIGHT: GALVANIZED STEEL, 16 LBS.; TEMPERED ALUMINUM, 10 LBS.

4. OTHER WIRESTRUCTIONS SHOWN FOR STANDARD AND ALTERNATIVE APPLY FOR BOTH WOOD AND METAL POST FENCE.

   - TYPE: 2 1/2 IN. x 2 1/2 IN. x 8 FT. MINIMUM DIAMETER OF STRUCTURAL STEEL ANGLES TO EACH WIRE WITH A MINIMUM AWG NO. 8 STRANDED COPPER FOR CONSTRUCTION AS SHOWN. THIS WIRE MIGHT BE PLACED ON THE SIDE OF THE POST WHICH WILL RESULT IN THE LEAST TENSION. WHERE POSSIBLE, WIRE SHOULD BE PLACED ON THE LIVESTOCK SIDE OF THE POSTS.

5. WHERE STEEL POSTS ARE SPECIFIED, EVERY FIFTH POST SHALL BE WOOD.

   - TYPE: 2 1/2 IN. x 2 1/2 IN. x 8 FT. MINIMUM DIAMETER OF THE GROUND ROD AND 8 FT. IN LENGTH, AND DRIVEN INTO THE SOIL. THE GROUND ROD SHALL BE OF ALL-WEALED CONSTRUCTION.

II. FENCES:

1. Wood Fences:
   - TYPE: 2 1/2 IN. x 2 1/2 IN. x 8 FT. MINIMUM DIAMETER OF THE GROUND ROD AND 8 FT. IN LENGTH, AND DRIVEN INTO THE SOIL. THE GROUND ROD SHALL BE OF ALL-WEALED CONSTRUCTION.

   - TYPE: 2 1/2 IN. x 2 1/2 IN. x 8 FT. MINIMUM DIAMETER OF THE GROUND ROD AND 8 FT. IN LENGTH, AND DRIVEN INTO THE SOIL. THE GROUND ROD SHALL BE OF ALL-WEALED CONSTRUCTION.

2. Alternate Wire Fences:
   - TYPE: 2 1/2 IN. x 2 1/2 IN. x 8 FT. MINIMUM DIAMETER OF THE GROUND ROD AND 8 FT. IN LENGTH, AND DRIVEN INTO THE SOIL. THE GROUND ROD SHALL BE OF ALL-WEALED CONSTRUCTION.

III. GATES:

1. Wood Gates:
   - TYPE: 2 1/2 IN. x 2 1/2 IN. x 8 FT. MINIMUM DIAMETER OF THE GROUND ROD AND 8 FT. IN LENGTH, AND DRIVEN INTO THE SOIL. THE GROUND ROD SHALL BE OF ALL-WEALED CONSTRUCTION.

   - TYPE: 2 1/2 IN. x 2 1/2 IN. x 8 FT. MINIMUM DIAMETER OF THE GROUND ROD AND 8 FT. IN LENGTH, AND DRIVEN INTO THE SOIL. THE GROUND ROD SHALL BE OF ALL-WEALED CONSTRUCTION.

2. Alternate Wire Gates:
   - TYPE: 2 1/2 IN. x 2 1/2 IN. x 8 FT. MINIMUM DIAMETER OF THE GROUND ROD AND 8 FT. IN LENGTH, AND DRIVEN INTO THE SOIL. THE GROUND ROD SHALL BE OF ALL-WEALED CONSTRUCTION.

   - TYPE: 2 1/2 IN. x 2 1/2 IN. x 8 FT. MINIMUM DIAMETER OF THE GROUND ROD AND 8 FT. IN LENGTH, AND DRIVEN INTO THE SOIL. THE GROUND ROD SHALL BE OF ALL-WEALED CONSTRUCTION.
NORMAL SPACING BETWEEN LINE POSTS

METAL STAYS (GALVANIZED)

Number required:

- One between line posts and posts having braces.
- Two equally spaced between line posts may be tied to the bottom wire.

WOODEN STAYS FOR BARBED WIRE OR COMBINATION WIRE FENCES:

- When wooden stays are specified on plans, line posts shall be spaced on 16'-0" centers, in lieu of 20'-0" normal spacing.
- Stays shall rest on the natural ground and may be stapled, or drilled and tied with wire.

WOODEN STAYS FOR BARBED WIRE FENCE WITH WOODEN POSTS

BARBED WIRE FENCE WITH METAL POSTS

BARBED WIRE FENCE WITH WOODEN POSTS

COMBINATION WIRE FENCE WITH WOODEN POSTS

COMBINATION WIRE FENCE WITH METAL POSTS

TYPICAL INSTALLATION AT FENCE INTERSECTIONS

1. For each post, 1/4" holes shall be bored into drilled holes.
2. Holes shall be bored with a minimum of 3/8" in body length.
3. Install footing or base using metal posts.
4. Crowned tops shall have 12" diameter for all end, corner, and line brace posts.

NOTES

- FOR STRUCTURES 4' x 4' AND LARGER, THE FENCE SHALL END AT THE EYEBOLTS IN THE WINGS OF THE STRUCTURE. WHERE THE TYPE OF STRUCTURE PROHIBITS THE USE OF EYEBOLTS, AN END POST WITH BRACE SHALL BE USED.
- EYEBOLTS SHALL BE MADE OF 1/2" ROUND BARS WITH A MINIMUM OF 6" BODY LENGTH EMBEDDED (HOOLED OR BENT) IN FRESH CONCRETE.
- EYEBOLTS SHALL HAVE A MINIMUM OF 1" INSIDE EYE DIAMETER.
- EYEBOLTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

WIRE FENCES AND GATES

STANDARD PLAN NO. M-507-1

Issued by the Project Development Branch: July 31, 2019

Computer File Information

Creation Date: 07/31/19
Designer Initials: JBK
Printed Size: 8.5" x 11"
Computer File: Line Post

Colorado Department of Transportation
2020 west Howard Place
CDOT No. 3rd Floor
Denver, CO 80204
Phone: 303-757-3921 FAX: 303-757-9868
Project Development Branch: JBK

Material: 8.5" x 11" Scale: Not to Scale: 1/10" Scale: 1/10"
FENCE WIRE

CRIMP WIRE CLAMP

USED TO SECURE FENCE WIRE TO POST.

MIN 12/2 GA WIRE

GATE, USE 34" MESH AND TWO 2 IN. x 2 IN. NOMINAL WOODEN STAYS AND BRACES TO ACCOMMODATE GATE OPENING.

STUDDED "TEE"

AND GATES

TYPICAL METAL POSTS

ALTERNATIVE POST

FOR LENGTH OF POSTS AND SPACING OF WIRE OR METAL END POSTS, SEE DETAILS ABOVE.

NAIL WITH 40D COMMON NAILS.

WIRE SPLICE

ALTERNATIVE ATTACHMENT METHODS, ACCEPTABLE TO THE ENGINEER, MAY BE USED.

SEPARATE HOLES IN POSTS, BRACKETS AND CLIPS FOR STEM SHALL ACCOMMODATE 1/2" DIA. GALVANIZED MACHINE BOLTS.

THE OPTION OF THE CONTRACTOR.

WOODEN POSTS MAY BE BORED IN LINE OF SETTING AND TAMPING, AT THE OPTION OF THE CONTRACTOR.

FOR END, CORNER OR LINE BRACE POSTS.

WOODEN POSTS METAL END POSTS

FOR DRIVEWAY GATES.

MIN 12-1/2 GAUGE WIRE

FOR WOODEN POSTS.

TO PREVENT SLIPPAGE OF SPINDLE SLEEVE INTO GROUND.

STUDDED "TEE" METAL END POSTS

CROSS BRACE Doweling DETAIL

2" MIN.

2" MIN.

2" MIN.

1/4" DIA.

1/4" DIA.

2" MIN.

2" MIN.

1/4" DIA.

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