1. All material dimensions and weights on this standard are nominal unless otherwise noted.

2. At each location where an electric transmission, distribution, or auxiliary line crosses a wood post fence, the contractor shall furnish and install a ground conduit conforming to article 100 of the National Electrical Code. The ground rod shall be a minimum diameter of 3/8 in. and 8 ft. in length, and driven at least 7.5 ft. into the ground. The rod shall be connected to each wire with a minimum of No. 6 stranded copper wire. Grounding will not be paid for separately but shall be considered in the work.

3. Metal live post shall be installed a maximum of 1000 ft. above 1 wood post fence. The metal post shall be within 1 ft. of the nearest wood post, and shall be tied to each strand with a metal strap.

4. Conduits shown for "standard" and "alternative" apply for both wood and metal post fence.

5. Fencing wire shall be ordered, doubled, wrapped and tied off at each end of posts. A single strand of wire, posts, and line brace posts, tension to be continued shall then be restarted in the same manner.

6. Wire steel posts are specified. Every fifth post shall be wood, determined on plans.

7. Height of wire fences shall be constructed approximately 6 ft. unless otherwise marked on the plans, as noted.

8. The contractor shall be responsible for re-establishing disturbed or displaced property monuments to the approximate accuracy in accordance with subsection 82:08 of the standard specifications.

9. Wood posts:
   - All live posts shall have a minimum diameter of 4 in. and be a minimum of 8 ft. in length.
   - All end, corner, intersection, and brace posts shall have a minimum diameter of 4 in. and be 8 ft. in length.
   - Wood posts having nonuniform cross section shall be cut with the larger dimension facing outward.
   - Fencing wire shall be stapled to wood posts or tied to metal posts as shown on plans or on combination wire fence at tension points. Steel shall be No. 6 wire minimum and at least 1½ in. in length.

10. Metal posts:
    - All posts and braces shall be the types and weights shown on plans or otherwise agreed to, and shall be in accordance with marked or printed hole. Holes shall be provided in end, corner, and gate post as detailed.

11. Corner and line brace posts:
    - Type: 2½ in. x 2½ in. x ½ in. structural steel angles
    - Weight: 0.5 lb. per ft.
    - Length: 10 ft. 6 in. max.
    - Number of pieces: 2

12. Ground wire:
    - Type: 5/32 in. x 5/32 in. x ½ in. structural steel angles

GENERAL NOTES

1. Silted test CT 0.7

2. Metal end posts and gate posts:
   - Type: 2½ in. x 2½ in. x ½ in. structural steel angles
   - Weight: 0.5 lb. per ft.
   - Number of braces: one

3. Braces (for corner, end, or line brace posts):
   - Type: 2 in. x 2 in. x 1/16 in. structural steel angles
   - Weight: 3.1 lb. per ft.

4. Foam or bracing:
   - Concrete shall be Class L
   - With lightweight aggregates conforming to ASTM C 195 (130°F maximum)

5. Alternative contractor's option:
   - Type: 1 in. x 1 in. x ½ in. structural steel angles
   - Weight: 1 lb. per ft.

6. Welded wire:
   - Type: 20 ga. x 1 in. x 1 in. x ½ in. structural steel angles
   - Weight: 5 lb. per ft.

7. Zinc-coated steel barbed wire shall conform to ASTM A 220. (GA 211)

8. Zinc-coated steel barbed wire shall conform to ASTM A 220. (GA 211)

9. Weight:
   - Wire fence: 0.5 lb. per ft.
   - Gate and fencing: 0.5 lb. per ft.

10. Wire fences:
    - Type: 32 ga. x 1 in. x 1 in. x ½ in. structural steel angles
    - Weight: 0.25 lb. per ft.

11. Cross wires:
    - Type: 22 ga. x 1 in. x 1 in. x ½ in. structural steel angles
    - Weight: 0.5 lb. per ft.

12. Wire:
    - Type: 14 ga. x 1 in. x 1 in. x ½ in. structural steel angles
    - Weight: 0.75 lb. per ft.

13. Wire fence:
    - Type: 22 ga. x 1 in. x 1 in. x ½ in. structural steel angles
    - Weight: 0.5 lb. per ft.

14. Wire post:
    - Type: 22 ga. x 1 in. x 1 in. x ½ in. structural steel angles
    - Weight: 0.5 lb. per ft.

15. Gate:
    - Type: 22 ga. x 1 in. x 1 in. x ½ in. structural steel angles
    - Weight: 0.5 lb. per ft.

16. Rack wire:
    - Type: 22 ga. x 1 in. x 1 in. x ½ in. structural steel angles
    - Weight: 0.5 lb. per ft.

17. Standard plan no. M-607-1

Sheet Revisions

Date: 07/29/06
Comments: Initials: MGM

Sheet No. 1 of 3

Project Development Branch

Colorado Department of Transportation

1201 East Arkansas Avenue
Denver, Colorado 80222

Fax: (303) 757-9820

Issued by: Project Development Branch on July 24, 2006
1. At all structures of 4 ft. x 4 ft. 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.

2. Eyebolts shall be made of 5/8 in. round bars with a minimum of 6 in. of body length embedded (hooked on bent) in fresh concrete.

3. For Eyebolts in existing concrete, the 3/4 in. round bars shall be deformed and inserted into drilled holes.

4. Eyebolts shall have a minimum of 1 in. inside eye diameter.

5. Eyebolts shall be furnished and installed by the contractor. Eyebolts will not be paid for separately but shall be included in the work.

NOTES:

WIRE FENCES AND GATES

STANDARD PLAN NO.

M-607-1

Sheet No. 2 of 3