

SECTION 12

FENCING SPECIFICATIONS

12.1 GENERAL

This section shall cover the requirements permanent fencing along boundaries, property lines or open ditches as may be required by the City of Cedar Hills. All fences shall be constructed in accordance with the subdivision ordinances.

12.2 CHAIN LINK FENCE SPECIFICATIONS

A. Materials:

1. Fabric to be chain link which has been galvanized after weaving with a minimum of 1.2 oz. per square foot of wire surface. Fabric shall be two (2)-inch mesh and constructed of 9 gauge wire.
2. Tension wire for bottom only, No. 7 gauge spring coil.
3. Top Rail: 1 5/8-inch tubular rail with a 0.065-inch wall thickness or approved equal.
4. Corner, Gate, or End Posts: Minimum diameter 2 3/8-inch O.D. galvanized pipe at 3.65 lbs. per foot per ASTM A-120.
5. Line Posts: Minimum diameter of 1 7/8-inch O.D. galvanized pipe at 2.72 lbs. per foot per ASTM A-120.
6. Braces: For all corner and gate posts - 1 5/8-inch O.D. galvanized pipe and adjustable 3/8-inch truss rods.

B. Concrete: Shall conform to the provisions of Section 5.3 Class C. Line, corner and gate posts shall be set in 36-inch deep holes and backfilled with concrete. A minimum of six (6) inches of concrete shall be provided between the bottom of the hole and the bottom of the post being set. All line posts shall be set in nine (9)-inch minimum diameter holes and all corner and gate posts shall be set in twelve (12)-inch minimum diameter holes.

C. Construction Methods: The steel posts shall be set true to line and grade in concrete bases.

The distances between posts in any section shall be uniform, but shall not exceed the following spacing:

Tangent sections and curves down to 500-foot radius: not more than ten (10) feet;

Curves 500-foot radius to 200-foot radius: not more than eight (8) feet;

Curves 200-foot radius to 100-foot radius; not more than six (6) feet;

Curves 100-foot radius: not more than five (5) feet.

Pull posts shall be provided at 500-foot maximum intervals. Changes in line of 30 degrees or more shall be considered as corners.

Fence fabric shall be placed on the roadway side of posts unless otherwise specified. The fabric shall be placed approximately one inch above the ground, and on a straight grade between posts by excavating high points of the ground. Filling depressions will be permitted only upon approval of the City Engineer.

The fabric shall be stretched taut and securely fastened to the posts. Fastening to end, gate, corner, and pull posts shall be with stretcher bars and metal bands spaced at one-foot intervals. The fabric shall be cut and each span fastened independently at all pull and corner posts. Fastening to line posts shall be with tie wire, metal bands, or other approved methods at 14-inch intervals. The top edge of fabric shall be attached to the top rail at approximately 24-inch intervals. The bottom tension wire shall be attached to the fabric with tie wires at 24-inch intervals and shall be secured to the end or pull posts with brace bands. Privacy fencing shall be permitted upon the approval of the City Engineer.

12.3 WOOD FENCE SPECIFICATIONS

A. Materials:

1. Slats: Redwood, cedar, combed spruce, or other wood covering acceptable to the City.
2. Bottom and Top Rail: Minimum 2-inch x 4-inch x 8-foot cedar stud.
3. Corner, Gate, End, or Line Posts: Minimum size 4-inch x 4-inch cedar wood post.

B. Concrete: All corner, gate, end, or line wood posts shall be set in concrete. All concrete used for post bases shall conform to the provisions of Section 5.3 Class C.

C. Construction Methods: The cedar posts shall be set true to line and grade in concrete bases at least two (2) feet in depth. All posts shall be sound and free from all decay, splits, multiple cracks, or any other defect which would weaken the posts or otherwise cause them to be structurally unsuitable for the purpose intended.

The maximum distance between posts in any section shall not exceed eight (8) feet. The top and bottom railings shall be securely fastened to the posts with galvanized nails or other acceptable means. Changes in line of 30 degrees or more shall be considered as corners. A minimum of six (6) inches of concrete shall be provided below the bottom of each post. End posts, corner posts, and gate posts shall have a concrete base at least twelve (12) inches in diameter. Bases for line posts shall also be twelve (12) inches in diameter.

Fence slats shall be placed on the roadway side of posts unless otherwise specified. The slats shall be placed approximately one inch above the ground, and on a straight grade between posts by excavating high points of the ground. Filling depressions will be permitted only upon approval of the City Engineer. The slats shall be sound and free from all major decay or defects which would weaken or otherwise cause them to be unsuitable for fence slats. Fastening to top and bottom railings shall be done with two galvanized nails at both the top and bottom rail.

12.4 CONSTRUCTION FENCE SPECIFICATIONS - TYPE "D"

A. Materials:

1. Fabric to be wire mesh which shall conform to ASTM Designation A-116, nominal 0.9999-inch Farm Grade with standard six (6) inch graduated spacing. The wire mesh shall have a Class 1 zinc coating.
2. Corner, gate, end or line posts shall be painted metal tee, U or Y channel, angular, or other approved shapes, six (6) feet six (6) inches in length.

B. Construction Methods: Metal fence posts shall be spaced a maximum interval of 16 feet. Post spacing measurements shall be made parallel to the ground slope. All posts shall be placed in a vertical position. Metal posts may be installed by driving, if this can be done without damage to the post. Otherwise, they shall be installed to the specified depth (two [2] feet six [6] inches) in larger drilled or dug holes and backfilled and compacted.

Corner posts shall be braced in two directions. End and gate posts shall be braced in one direction.

Wire mesh fabric shall be drawn tight enough to eliminate all sag without causing the "tension crimps" to fail to function.

Any high points along the ground surface which interfere with the placing of wire mesh shall be excavated to provide at least two (2) inches of ground clearance.

Every alternate lateral wire in the mesh fabric shall be fastened to each post by means of a clamp.