

1112 MISCELLANEOUS CONSTRUCTION STAKES

1112-1 Right-of-Way Fence

Line fence shall be staked as indicated on the plans and the Roadway Construction Standards. The staking shall indicate the line of the fence and the location of strain posts, end posts, corner braces, and gate panels.

Right-of-way lines and property boundaries should always be set by a Registered Land Surveyor.

Since right-of-way stakes are usually set as references to the centerline, they are usually sufficient for the line of the fence. The fence line should be staked at intervals not to exceed 200 feet (60 meters) depending upon the terrain, except on curves where the stakes should be set on 25 foot (7.5 meter) or 50 foot (15 meter) stations. To run offset lines to a centerline curve, use the table entitled "length of circular arcs for radius of one degree," as found in most route survey books. In lieu of this table, the following formula may be used:

$$L = \frac{(R \pm O)C}{R}$$

Where: R = radius of centerline curve.
 O = offset distance from centerline to right-of-way line.
 C = chord length on centerline.
 L = chord length arrived at for offset line.

Proceed to run the offset line by using the stationing of the centerline and the deflections as computed for the centerline.

In order to prevent the probability of constructing the fence outside of the right-of-way at any point, the standards require the fence to be located 6 inches (15 centimeters) inside of the right-of-way. Measurement and payment shall be made in accordance with the standard specifications and special provisions.

1112-2 Cattle Guards

Cattle guards shall be staked and constructed to conform to the finished grade of the roadway and as indicated by the plans and standards drawings. When necessary, provide outlets at the ends for drainage.

1112-3 Guardrail

The staking of guardrail must follow closely the appropriate roadway construction standard. Special attention should be given to the flares and end treatments.

Offset nails for guard rail control are generally adequate if set at 50 foot (15 meter) centers on tangent sections or 25 foot (7.5 meter) centers on sharp radius curves. Each post of a flared end section should have an offset reference.

1112-4 Bank Protection

All bank protection shall be staked soon after the channel changes and structures are built so that proper ties between the structures and the bank protection may be made early for protection of the roadway and structures.